



Default Power

GSM850 Ant0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM1 Tx slot	32.60	32.69	32.58	33.50	23.60	23.69	23.58	24.50
GPRS 1 Tx slot	32.56	32.55	32.51	33.50	23.56	23.55	23.51	24.50
GPRS 2 Tx slots	31.47	31.50	31.45	32.50	25.47	25.50	25.45	26.50
GPRS 3 Tx slots	29.34	29.46	29.33	30.50	25.08	25.20	25.07	26.24
GPRS 4 Tx slots	28.21	28.32	28.22	29.50	25.21	25.32	25.22	26.50
EDGE 1 Tx slot	26.18	26.32	26.18	27.50	17.18	17.32	17.18	18.50
EDGE 2 Tx slots	25.05	25.19	25.12	26.00	19.05	19.19	19.12	20.00
EDGE 3 Tx slots	22.86	22.92	22.88	24.00	18.80	18.86	18.82	19.74
EDGE 4 Tx slots	21.48	21.53	21.51	22.50	18.46	18.53	18.51	19.50

GSM1900 Ant0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM1 Tx slot	28.05	28.14	28.87	30.50	20.05	20.14	19.97	21.50
GPRS 1 Tx slot	28.10	29.17	29.02	30.50	20.10	20.17	20.02	21.50
GPRS 2 Tx slots	28.31	28.37	28.05	29.00	22.31	22.37	22.05	23.00
GPRS 3 Tx slots	26.28	26.34	26.02	27.50	22.02	22.08	21.76	23.24
GPRS 4 Tx slots	25.08	25.16	25.00	25.50	22.08	22.16	22.00	22.50
EDGE 1 Tx slot	24.81	24.84	24.59	26.00	15.81	15.84	15.59	17.00
EDGE 2 Tx slots	23.69	23.73	23.58	25.00	17.69	17.73	17.58	19.00
EDGE 3 Tx slots	21.67	21.78	21.55	23.00	17.41	17.52	17.29	18.74
EDGE 4 Tx slots	20.31	20.33	20.27	21.50	17.31	17.33	17.27	18.50

Band TX Channel	WCDMA II Ant0			Tune-up Limit (dBm)	WCDMA IV Ant0			Tune-up Limit (dBm)	WCDMA V Ant0			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1824	1830	1873.5		1724	1727.5	1732.8		4264	4264	4466	
3GPP Rel 99 AMR 12.2Kbps	22.11	22.45	22.41	24.00	22.45	22.49	22.34	24.00	22.61	22.71	22.53	24.00
3GPP Rel 99 RMC 12.2Kbps	22.29	22.47	22.42	24.00	22.48	22.51	22.35	24.00	22.66	22.72	22.60	24.00
3GPP Rel 6 HSDPA Subtest-1	21.28	21.50	21.34	23.00	21.49	21.55	21.24	23.00	21.63	21.71	21.49	23.00
3GPP Rel 6 HSDPA Subtest-2	21.31	21.43	21.45	23.00	21.41	21.48	21.37	23.00	21.58	21.73	21.59	23.00
3GPP Rel 6 HSDPA Subtest-3	20.75	20.94	20.75	22.50	20.92	20.99	20.82	22.50	21.12	21.13	21.18	22.50
3GPP Rel 6 HSDPA Subtest-4	20.86	20.91	20.97	22.50	21.03	20.94	20.78	22.50	21.27	21.29	21.08	22.50
3GPP Rel 6 DCHSDPA Subtest-1	21.18	21.47	21.28	23.00	21.36	21.46	21.38	23.00	21.67	21.83	21.56	23.00
3GPP Rel 6 DCHSDPA Subtest-2	21.27	21.30	21.39	23.00	21.49	21.61	21.43	23.00	21.76	21.83	21.68	23.00
3GPP Rel 6 DCHSDPA Subtest-3	20.58	20.91	20.59	22.50	20.91	21.10	20.90	22.50	21.21	21.15	21.08	22.50
3GPP Rel 6 DCHSDPA Subtest-4	20.69	20.80	20.62	22.50	21.07	20.95	20.86	22.50	21.22	21.23	21.00	22.50
3GPP Rel 6 HSUPA Subtest-1	21.29	21.40	21.15	23.00	21.46	21.58	21.24	23.00	21.67	21.68	21.72	23.00
3GPP Rel 6 HSUPA Subtest-2	19.36	19.41	19.40	21.00	19.54	19.53	19.38	21.00	19.62	19.69	19.58	21.00
3GPP Rel 6 HSUPA Subtest-3	20.28	20.56	20.50	22.00	20.43	20.40	20.34	22.00	20.64	20.82	20.71	22.00
3GPP Rel 6 HSUPA Subtest-4	19.23	19.49	19.49	21.00	19.44	19.44	19.28	21.00	19.62	19.69	19.49	21.00
3GPP Rel 6 HSUPA Subtest-5	21.00	21.38	21.22	23.00	21.56	21.58	21.29	23.00	21.66	21.74	21.58	23.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	18.82	19.04	18.86	20.50	18.83	19.05	18.75	20.50	19.09	19.10	19.01	20.50



Band 2 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.57	22.57	22.74	24	0				
20	QPSK	1	49	22.51	22.73	22.63						
20	QPSK	1	99	22.38	22.71	22.63						
20	QPSK	50	0	21.73	21.93	21.86						
20	QPSK	50	24	21.62	21.89	21.88	23	1				
20	QPSK	50	50	21.75	21.82	21.74						
20	QPSK	100	0	21.78	21.90	21.86						
20	16QAM	1	0	22.00	22.05	22.03						
20	16QAM	1	49	21.86	21.90	21.81	23	1				
20	16QAM	1	99	21.77	21.76	21.70						
20	16QAM	50	0	20.78	20.94	20.96						
20	16QAM	50	24	20.73	21.00	20.83						
20	16QAM	50	50	20.65	20.94	20.70	22	2				
20	16QAM	100	0	20.80	20.98	20.90						
20	64QAM	1	0	21.01	21.03	21.01						
20	64QAM	1	49	20.86	20.89	20.86						
20	64QAM	1	99	20.72	20.84	20.88	22	2				
20	64QAM	50	0	19.84	19.96	19.98						
20	64QAM	50	24	19.75	20.02	19.76						
20	64QAM	50	50	19.62	20.00	19.64						
20	64QAM	100	0	19.75	20.04	19.90	21	3				
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.50	22.73	22.74				24	0	
15	QPSK	1	37	22.52	22.52	22.58						
15	QPSK	1	74	22.24	22.56	22.49						
15	QPSK	36	20	21.43	21.74	21.69						
15	QPSK	36	39	21.73	21.71	21.71	23	1				
15	QPSK	75	0	21.68	21.84	21.77						
15	16QAM	1	0	21.88	21.99	21.86						
15	16QAM	1	37	21.87	21.77	21.81						
15	16QAM	1	74	21.69	21.57	21.70	23	1				
15	16QAM	36	0	20.81	20.74	20.91						
15	16QAM	36	39	20.70	21.32	20.94						
15	16QAM	36	39	20.66	20.33	20.68						
15	16QAM	75	0	20.81	20.86	20.72	22	2				
15	16QAM	75	0	20.84	20.83	20.80						
15	16QAM	1	37	20.82	20.74	20.73						
15	16QAM	1	74	20.68	20.65	20.49						
15	64QAM	36	0	19.85	19.92	19.96	21	3				
15	64QAM	36	20	19.73	19.96	19.70						
15	64QAM	36	39	19.75	19.85	19.73						
15	64QAM	75	0	19.68	19.94	19.74						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.53	22.70	22.71	24	0				
10	QPSK	1	25	22.35	22.71	22.48						
10	QPSK	1	49	22.36	22.54	22.60						
10	QPSK	25	0	21.73	21.82	21.72						
10	QPSK	25	12	21.62	21.81	21.89	23	1				
10	QPSK	25	25	21.62	21.75	21.59						
10	QPSK	50	0	21.70	21.92	21.90						
10	16QAM	1	0	21.91	21.99	21.90						
10	16QAM	1	25	21.73	21.68	21.78	23	1				
10	16QAM	1	49	21.56	21.78	21.71						
10	16QAM	25	0	20.88	20.85	20.86						
10	16QAM	25	12	20.57	20.78	20.64						
10	16QAM	25	25	20.47	20.80	20.58	22	2				
10	16QAM	50	0	20.67	20.94	20.86						
10	16QAM	1	0	20.89	21.04	20.91						
10	64QAM	1	25	20.69	20.99	20.78						
10	64QAM	1	49	20.73	20.74	20.59	22	2				
10	64QAM	25	0	19.84	19.78	19.94						
10	64QAM	25	12	19.61	19.82	19.75						
10	64QAM	25	25	19.61	19.83	19.62						
10	64QAM	50	0	19.72	19.92	19.90	21	3				
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.47	22.72	22.71				24	0	
5	QPSK	1	12	22.43	22.85	22.44						
5	QPSK	1	24	22.33	22.50	22.63						
5	QPSK	12	0	21.71	21.95	21.85						
5	QPSK	12	7	21.53	21.76	21.71	23	1				
5	QPSK	12	13	21.53	21.63	21.53						
5	QPSK	25	0	21.65	21.92	21.88						
5	16QAM	1	0	21.97	22.05	21.92						
5	16QAM	1	12	21.73	21.92	21.79	23	1				
5	16QAM	1	24	21.56	21.90	21.65						
5	16QAM	12	0	20.82	20.84	20.96						
5	16QAM	12	7	20.63	20.86	20.78						
5	16QAM	12	13	20.46	20.80	20.56	22	2				
5	16QAM	25	0	20.63	20.79	20.73						
5	64QAM	1	0	20.93	20.99	20.79						
5	64QAM	1	12	20.84	20.90	20.83						
5	64QAM	1	24	20.57	20.85	20.60	22	2				
5	64QAM	12	0	19.63	19.86	19.67						
5	64QAM	12	7	19.47	19.84	19.63						
5	64QAM	12	13	19.49	19.81	19.47						
5	64QAM	25	0	19.71	19.89	19.87	21	3				
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.45	22.68	22.66				24	0	
3	QPSK	1	8	22.46	22.61	22.58						
3	QPSK	1	14	22.29	22.53	22.43						
3	QPSK	8	0	21.71	21.78	21.74						
3	QPSK	8	4	21.43	21.85	21.86	23	1				
3	QPSK	8	8	21.64	21.87	21.76						
3	QPSK	15	0	21.61	21.85	21.85						
3	16QAM	1	0	21.88	21.89	22.00						
3	16QAM	1	8	21.86	21.74	21.68	23	1				
3	16QAM	1	14	21.62	21.76	21.63						
3	16QAM	8	0	20.71	20.91	20.92						
3	16QAM	8	4	20.55	20.95	20.83						
3	16QAM	8	7	20.51	20.76	20.50	22	2				
3	16QAM	15	0	20.71	20.83	20.79						
3	64QAM	1	0	20.95	20.83	20.87						
3	64QAM	1	8	20.76	20.88	20.76						
3	64QAM	1	14	20.73	20.76	20.57	22	2				
3	64QAM	8	0	19.84	19.88	19.91						
3	64QAM	8	4	19.73	19.84	19.80						
3	64QAM	8	7	19.68	19.80	19.71						
3	64QAM	15	0	19.55	20.04	19.51	21	3				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.38	22.67	22.72				24	0	
1.4	QPSK	1	3	22.32	22.60	22.51						
1.4	QPSK	1	5	22.22	22.66	22.53						
1.4	QPSK	3	0	22.47	22.64	22.73						
1.4	QPSK	3	1	22.38	22.67	22.59	23	1				
1.4	QPSK	3	3	22.46	22.73	22.42						
1.4	QPSK	6	0	21.52	21.86	21.73						
1.4	16QAM	1	0	21.54	21.87	21.70						
1.4	16QAM	1	3	21.58	21.75	21.60	23	1				
1.4	16QAM	1	5	21.74	21.68	21.88						
1.4	16QAM	3	0	21.47	21.84	21.85						
1.4	16QAM	3	1	21.65	21.71	21.71						
1.4	16QAM	3	3	21.72	21.83	21.78	22	2				
1.4	16QAM	6	0	20.50	20.73	20.78						
1.4	64QAM	1	0	20.46	20.74	20.80						
1.4	64QAM	1	3	20.35	20.70	20.31						
1.4	64QAM	1	5	20.69	20.72	20.59	22	2				
1.4	64QAM	3	0	20.90	20.82	20.79						
1.4	64QAM	3	1	20.63	20.75	20.58						
1.4	64QAM	3	3	20.57	20.67	20.50						
1.4	64QAM	6	0	19.63	19.72	19.76	21	3				

Band 4 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.33	22.33	22.74	24	0	
20	QPSK	1	49	22.28	22.33	22.32			
20	QPSK	1	99	22.22	22.38	22.28			
20	QPSK	50	0	21.43	21.61	21.57			
20	QPSK	50	24	21.41	21.50	21.53	23	1	
20	QPSK	50	50	21.42	21.53	21.36			
20	QPSK	100	0	21.49	21.58	21.54			
20	16QAM	1	0	21.64	21.67	21.52			
20	16QAM	1	49	21.47	21.53	21.54	23	1	
20	16QAM	1	99	21.31	21.57	21.54			
20	16QAM	50	0	20.38	20.65	20.60			
20	16QAM	50	24	20.47	20.40	20.50			
20	16QAM	50	50	20.53	20.57	20.44	22	2	
20	16QAM	100	0	20.42	20.69	20.44			
20	64QAM	1	0	20.59	20.56	20.51			
20	64QAM	1	49	20.55	20.62	20.67			
20	64QAM	1	99	20.38	20.60	20.60	22	2	
20	64QAM	50	0	19.28	19.60	19.52			
20	64QAM	50	24	19.48	19.51	19.61			
20	64QAM	50	50	19.62	19.50	19.46			
20	64QAM	100	0	19.46	19.55	19.52	21	3	



Band 12 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.70	22.72	22.74	24	0	
10	QPSK	1	25	22.55	22.66	22.49			
10	QPSK	1	49	22.65	22.67	22.62			
10	QPSK	25	0	21.59	21.82	21.88	23	1	
10	QPSK	25	12	21.53	21.54	21.58			
10	QPSK	25	25	21.71	21.73	21.55			
10	QPSK	50	0	21.49	21.69	21.54	23	1	
10	16QAM	1	0	21.82	22.02	22.01			
10	16QAM	1	25	21.64	21.76	21.76			
10	16QAM	1	49	21.74	21.91	21.88	22	2	
10	16QAM	25	0	20.64	20.88	20.71			
10	16QAM	25	12	20.60	20.60	20.69			
10	16QAM	25	25	20.59	20.71	20.45	22	2	
10	16QAM	50	0	20.58	20.66	20.42			
10	16QAM	1	0	20.70	20.98	20.95			
10	64QAM	1	25	20.53	20.68	20.84	22	2	
10	64QAM	1	49	20.66	20.85	20.80			
10	64QAM	25	0	19.60	19.88	19.69			
10	64QAM	25	12	19.56	19.64	19.64	21	3	
10	64QAM	25	25	19.51	19.77	19.56			
10	64QAM	50	0	19.47	19.60	19.33			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.51	22.68	22.51	24	0	
5	QPSK	1	12	22.53	22.46	22.29			
5	QPSK	1	24	22.49	22.50	22.46			
5	QPSK	12	0	21.35	21.71	21.51	23	1	
5	QPSK	12	7	21.45	21.37	21.36			
5	QPSK	12	13	21.65	21.72	21.51			
5	QPSK	25	0	21.41	21.60	21.37	23	1	
5	16QAM	1	0	21.73	21.87	21.87			
5	16QAM	1	12	21.54	21.76	21.57			
5	16QAM	1	24	21.71	21.76	21.85	22	2	
5	16QAM	12	0	20.61	20.85	20.51			
5	16QAM	12	7	20.56	20.40	20.62			
5	16QAM	12	13	20.53	20.55	20.39	22	2	
5	16QAM	25	0	20.37	20.52	20.19			
5	64QAM	1	0	20.45	20.85	20.79			
5	64QAM	1	12	20.48	20.60	20.75	22	2	
5	64QAM	1	24	20.63	20.73	20.79			
5	64QAM	12	0	19.43	19.83	19.54			
5	64QAM	12	7	19.51	19.46	19.46	21	3	
5	64QAM	12	13	19.39	19.58	19.58			
5	64QAM	25	0	19.34	19.39	19.26			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.57	22.64	22.80	24	0	
3	QPSK	1	8	22.48	22.45	22.34			
3	QPSK	1	14	22.52	22.49	22.49			
3	QPSK	8	0	21.39	21.79	21.65	23	1	
3	QPSK	8	4	21.50	21.31	21.54			
3	QPSK	8	7	21.67	21.54	21.53			
3	QPSK	15	0	21.29	21.53	21.30	23	1	
3	16QAM	1	0	21.66	21.79	21.65			
3	16QAM	1	8	21.47	21.76	21.58			
3	16QAM	1	14	21.69	21.85	21.78	22	2	
3	16QAM	8	0	20.53	20.61	20.51			
3	16QAM	8	4	20.37	20.58	20.60			
3	16QAM	8	7	20.49	20.46	20.42	22	2	
3	16QAM	15	0	20.51	20.57	20.31			
3	64QAM	1	0	20.53	20.86	20.76			
3	64QAM	1	8	20.48	20.51	20.72	21	3	
3	64QAM	1	14	20.62	20.70	20.60			
3	64QAM	8	0	19.41	19.83	19.48			
3	64QAM	8	4	19.49	19.54	19.40	21	3	
3	64QAM	8	7	19.42	19.74	19.53			
3	64QAM	15	0	19.36	19.58	19.23			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.41	22.66	22.48	24	0	
1.4	QPSK	1	3	22.33	22.39	22.25			
1.4	QPSK	1	5	22.46	22.44	22.28			
1.4	QPSK	3	0	22.37	22.65	22.46	23	1	
1.4	QPSK	3	1	22.46	22.31	22.15			
1.4	QPSK	3	3	22.31	22.40	22.51			
1.4	QPSK	6	0	21.46	21.83	21.42	23	1	
1.4	16QAM	1	0	21.77	21.78	21.83			
1.4	16QAM	1	3	21.59	21.63	21.64			
1.4	16QAM	1	5	21.56	21.79	21.79	23	1	
1.4	16QAM	3	0	21.75	21.76	21.65			
1.4	16QAM	3	1	21.50	21.41	21.83			
1.4	16QAM	3	3	21.42	21.78	21.69	22	2	
1.4	16QAM	6	0	20.54	20.72	20.88			
1.4	64QAM	1	0	20.60	20.76	20.70			
1.4	64QAM	1	3	20.40	20.59	20.62	22	2	
1.4	64QAM	1	5	20.56	20.75	20.67			
1.4	64QAM	3	0	20.55	20.67	20.59			
1.4	64QAM	3	0	20.26	20.37	20.46	21	3	
1.4	64QAM	3	3	20.43	20.74	20.67			
1.4	64QAM	6	0	19.38	19.59	19.15			

Band 13 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.75	22.75	22.75	24	0	
10	QPSK	1	25	22.70	22.70	22.70			
10	QPSK	1	49	22.73	22.73	22.73			
10	QPSK	25	0	21.57	21.57	21.57	23	1	
10	QPSK	25	12	21.51	21.51	21.51			
10	QPSK	25	25	21.54	21.54	21.54			
10	QPSK	50	0	21.76	21.76	21.76	23	1	
10	16QAM	1	0	21.93	21.93	21.93			
10	16QAM	1	25	21.83	21.83	21.83			
10	16QAM	1	49	21.89	21.89	21.89	22	2	
10	16QAM	25	0	20.59	20.59	20.59			
10	16QAM	25	12	20.41	20.41	20.41			
10	16QAM	25	25	20.53	20.53	20.53	22	2	
10	16QAM	50	0	20.73	20.73	20.73			
10	64QAM	1	0	20.87	20.87	20.87			
10	64QAM	1	25	20.61	20.61	20.61	22	2	
10	64QAM	1	49	20.70	20.70	20.70			
10	64QAM	25	0	19.59	19.59	19.59			
10	64QAM	25	12	19.63	19.63	19.63	21	3	
10	64QAM	25	25	19.56	19.56	19.56			
10	64QAM	50	0	19.72	19.72	19.72			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.64	22.73	22.72	24	0	
5	QPSK	1	12	22.68	22.62	22.63			
5	QPSK	1	24	22.74	22.74	22.67			
5	QPSK	12	0	21.54	21.57	21.42	23	1	
5	QPSK	12	7	21.50	21.46	21.35			
5	QPSK	12	13	21.51	21.34	21.47			
5	QPSK	25	0	21.76	21.56	21.59	23	1	
5	16QAM	1	0	21.87	21.85	21.82			
5	16QAM	1	12	21.69	21.76	21.85			
5	16QAM	1	24	21.89	21.88	21.81	22	2	
5	16QAM	12	0	20.51	20.42	20.58			
5	16QAM	12	7	20.38	20.40	20.21			
5	16QAM	12	13	20.47	20.39	20.37	22	2	
5	16QAM	25	0	20.72	20.63	20.53			
5	64QAM	1	0	20.73	20.71	20.70			
5	64QAM	1	12	20.41	20.62	20.63	22	2	
5	64QAM	1	24	20.61	20.70	20.62			
5	64QAM	12	0	19.46	19.55	19.56			
5	64QAM	12	7	19.51	19.45	19.59	21	3	
5	64QAM	12	13	19.47	19.51	19.42			
5	64QAM	25	0	19.56	19.53	19.66			

Band 14 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.77	22.77	22.77	24	0	
10	QPSK	1	25	22.75	22.75	22.75			
10	QPSK	1	49	22.70	22.70	22.70			
10	QPSK	25	0	21.80	21.80	21.80	23	1	
10	QPSK	25	12	21.68	21.68	21.68			
10	QPSK	25	25	21.65	21.65	21.65			
10	QPSK	50	0	21.78	21.78	21.78	23	1	
10	16QAM	1	0	22.04	22.04	22.04			
10	16QAM	1	25	21.90	21.90	21.90			
10	16QAM	1	49	21.87	21.87	21.87	22	2	
10	16QAM	25	0	20.78	20.78	20.78			
10	16QAM	25	12	20.57	20.57	20.57			
10	16QAM	25	25	20.65	20.65	20.65	22	2	
10	16QAM	50	0	20.76	20.76	20.76			
10	64QAM	1	0	20.92	20.92	20.92			
10									



Band 17 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.60	22.69	22.64			
10	QPSK	1	25	22.48	22.64	22.53		24	0
10	QPSK	1	49	22.49	22.58	22.45			
10	QPSK	25	0	21.70	21.89	21.85			
10	QPSK	25	12	21.72	21.82	21.79		23	1
10	QPSK	25	25	21.61	21.79	21.60			
10	QPSK	50	0	21.68	21.89	21.82			
10	16QAM	1	0	21.86	21.97	21.80			
10	16QAM	1	49	21.84	20.82	20.68		23	1
10	16QAM	1	49	21.75	21.70	21.71			
10	16QAM	25	0	20.64	20.93	20.93			
10	16QAM	25	12	20.74	20.73	20.82			2
10	16QAM	25	25	20.69	20.89	20.88			
10	16QAM	50	0	20.78	20.90	20.86			
10	64QAM	1	0	20.90	20.96	20.89			
10	64QAM	1	25	20.80	20.75	20.84			2
10	64QAM	1	49	20.84	20.82	20.68			
10	64QAM	25	0	19.80	19.85	19.88			
10	64QAM	25	12	19.91	19.84	19.88			3
10	64QAM	25	25	19.77	19.93	19.59			
10	64QAM	50	0	19.89	19.87	19.74			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.48	22.61	22.64			
5	QPSK	1	12	22.31	22.49	22.50		24	0
5	QPSK	1	24	22.27	22.39	22.37			
5	QPSK	12	0	21.52	21.86	21.64			
5	QPSK	12	7	21.51	21.80	21.66			
5	QPSK	12	13	21.40	21.76	21.80		23	1
5	QPSK	25	0	21.70	21.83	21.85			
5	16QAM	1	0	21.77	21.86	21.75			
5	16QAM	1	12	21.64	21.70	21.53		23	1
5	16QAM	1	24	21.60	21.69	21.60			
5	16QAM	12	0	20.43	20.87	20.91			
5	16QAM	12	7	20.76	20.54	20.76			
5	16QAM	12	13	20.71	20.80	20.54		22	2
5	16QAM	25	0	20.77	20.81	20.79			
5	64QAM	1	0	20.74	20.90	20.85			
5	64QAM	1	12	20.60	20.70	20.81		22	2
5	64QAM	1	24	20.83	20.64	20.66			
5	64QAM	12	0	19.70	19.67	19.94			
5	64QAM	12	7	19.78	19.85	19.56			
5	64QAM	12	13	19.63	19.85	19.58		21	3
5	64QAM	25	0	19.75	19.80	19.62			

Band 25 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.60	22.69	22.74			
20	QPSK	1	49	22.62	22.75	22.76		24	0
20	QPSK	1	99	22.60	22.77	22.69			
20	QPSK	50	0	21.69	21.91	21.78			
20	QPSK	50	24	21.67	21.73	21.70		23	1
20	QPSK	50	50	21.60	21.73	21.68			
20	QPSK	100	0	21.58	21.92	21.71			
20	16QAM	1	0	21.77	22.02	21.90			
20	16QAM	1	49	21.66	21.91	21.88		23	1
20	16QAM	1	99	21.74	21.76	21.72			
20	16QAM	50	0	20.63	20.90	20.74			
20	16QAM	50	24	20.60	20.83	20.66			
20	16QAM	50	50	20.51	20.62	20.74		22	2
20	16QAM	100	0	20.47	20.87	20.62			
20	64QAM	1	0	20.58	20.70	20.76			
20	64QAM	1	49	20.45	20.65	20.68		22	2
20	64QAM	1	99	20.37	20.61	20.53			
20	64QAM	50	0	19.54	19.99	19.85			
20	64QAM	50	24	19.89	19.86	19.88			
20	64QAM	50	50	19.53	19.54	19.69		21	3
20	64QAM	100	0	19.48	19.87	19.65			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.50	22.73	22.56			
15	QPSK	1	37	22.38	22.68	22.67		24	0
15	QPSK	1	74	22.41	22.65	22.52			
15	QPSK	36	0	21.63	21.92	21.76			
15	QPSK	36	20	21.44	21.55	21.60		23	1
15	QPSK	36	39	21.43	21.71	21.52			
15	QPSK	75	0	21.52	21.71	21.61			
15	16QAM	1	0	21.69	21.80	21.69			
15	16QAM	1	37	21.58	21.82	21.81		23	1
15	16QAM	1	74	21.60	21.65	21.57			
15	16QAM	36	0	20.60	20.76	20.68			
15	16QAM	36	20	20.42	20.49	20.47		22	2
15	16QAM	36	39	20.28	20.42	20.50			
15	16QAM	75	0	20.40	20.84	20.40			
15	64QAM	1	0	20.53	20.56	20.70			
15	64QAM	1	37	20.26	20.47	20.59		22	2
15	64QAM	1	74	20.37	20.45	20.36			
15	64QAM	36	0	19.51	19.73	19.65			
15	64QAM	36	20	19.59	19.73	19.63		21	3
15	64QAM	36	39	19.29	19.32	19.53			
15	64QAM	75	0	19.32	19.59	19.48			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.40	22.76	22.82			
10	QPSK	1	25	22.50	22.61	22.64		24	0
10	QPSK	1	49	22.36	22.70	22.68			
10	QPSK	25	0	21.49	21.80	21.67			
10	QPSK	25	12	21.58	21.49	21.53		23	1
10	QPSK	25	25	21.37	21.66	21.49			
10	QPSK	50	0	21.51	21.87	21.49			
10	16QAM	1	0	21.63	21.83	21.78			
10	16QAM	1	25	21.44	21.83	21.88		23	1
10	16QAM	1	49	21.57	21.67	21.48			
10	16QAM	25	0	20.46	20.82	20.58			
10	16QAM	25	12	20.51	20.70	20.42		22	2
10	16QAM	25	25	20.27	20.59	20.50			
10	16QAM	50	0	20.34	20.65	20.43			
10	64QAM	1	0	20.44	20.53	20.45		22	2
10	64QAM	1	25	20.41	20.41	20.49			
10	64QAM	1	49	20.22	20.43	20.30			
10	64QAM	25	0	19.40	19.78	19.77			
10	64QAM	25	12	19.58	19.63	19.57		21	3
10	64QAM	25	25	19.48	19.44	19.64			
10	64QAM	50	0	19.43	19.74	19.41			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.55	22.71	22.53			
5	QPSK	1	12	22.58	22.52	22.83		24	0
5	QPSK	1	24	22.56	22.59	22.46			
5	QPSK	12	0	21.48	21.75	21.75			
5	QPSK	12	7	21.66	21.72	21.62		23	1
5	QPSK	12	13	21.47	21.57	21.51			
5	QPSK	25	0	21.50	21.86	21.65			
5	16QAM	1	0	21.70	21.86	21.75			
5	16QAM	1	12	21.61	21.69	21.76		23	1
5	16QAM	1	24	21.58	21.67	21.86			
5	16QAM	12	0	20.55	20.78	20.68			
5	16QAM	12	7	20.36	20.64	20.55		22	2
5	16QAM	12	13	20.47	20.52	20.55			
5	16QAM	25	0	20.26	20.83	20.58			
5	64QAM	1	0	20.47	20.60	20.55			
5	64QAM	1	12	20.37	20.41	20.57		22	2
5	64QAM	1	24	20.37	20.49	20.29			
5	64QAM	12	0	19.41	19.84	19.55			
5	64QAM	12	7	19.56	19.65	19.55		21	3
5	64QAM	12	13	19.47	19.42	19.59			
5	64QAM	25	0	19.44	19.85	19.56			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.40	22.70	22.65			
3	QPSK	1	8	22.56	22.51	22.64		24	0
3	QPSK	1	14	22.40	22.61	22.66			
3	QPSK	8	0	21.54	21.70	21.69			
3	QPSK	8	4	21.45	21.58	21.46		23	1
3	QPSK	8	7	21.48	21.70	21.52			
3	QPSK	15							



Band 66 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	22.46	22.42	22.41			
20	QPSK	1	49	22.36	22.45	22.33	24	0	
20	QPSK	1	99	22.28	22.42	22.29			
20	QPSK	50	0	21.68	21.72	21.68			
20	QPSK	50	24	21.49	21.58	21.44	23	1	
20	QPSK	50	50	21.38	21.51	21.38			
20	QPSK	100	0	21.55	21.63	21.59			
20	16QAM	1	0	21.55	21.79	21.57			
20	16QAM	1	49	21.59	21.94	21.45	23	1	
20	16QAM	1	99	21.43	21.50	21.40			
20	16QAM	50	0	20.72	20.70	20.66			
20	16QAM	50	24	20.61	20.65	20.47	22	2	
20	16QAM	50	50	20.58	20.67	20.53			
20	16QAM	100	0	20.50	20.58	20.49			
20	64QAM	1	0	20.78	20.66	20.71			
20	64QAM	1	49	20.60	20.65	20.55	22	2	
20	64QAM	1	99	20.41	20.56	20.60			
20	64QAM	50	0	19.63	19.67	19.52			
20	64QAM	50	24	19.63	19.75	19.41	21	3	
20	64QAM	50	50	19.58	19.50	19.53			
20	64QAM	100	0	19.54	19.57	19.55			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	22.30	22.44	22.19			
15	QPSK	1	37	22.24	22.35	22.20	24	0	
15	QPSK	1	74	22.22	22.38	22.18			
15	QPSK	36	0	21.64	21.63	21.66			
15	QPSK	36	20	21.38	21.59	21.24	23	1	
15	QPSK	36	39	21.18	21.31	21.30			
15	QPSK	75	0	21.52	21.47	21.42			
15	16QAM	1	0	21.46	21.55	21.39			
15	16QAM	1	37	21.53	21.53	21.25	23	1	
15	16QAM	1	74	21.43	21.44	21.38			
15	16QAM	36	0	20.56	20.56	20.63			
15	16QAM	36	20	20.56	20.45	20.38	22	2	
15	16QAM	36	39	20.38	20.58	20.37			
15	16QAM	75	0	20.35	20.44	20.29			
15	64QAM	1	0	20.68	20.47	20.68			
15	64QAM	1	37	20.40	20.58	20.38	22	2	
15	64QAM	1	74	20.26	20.35	20.51			
15	64QAM	36	0	19.51	19.55	19.49			
15	64QAM	36	20	19.43	19.60	19.34	21	3	
15	64QAM	36	39	19.50	19.52	19.51			
15	64QAM	75	0	19.54	19.38	19.55			
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	22.43	22.42	22.26			
10	QPSK	1	25	22.15	22.35	22.27	24	0	
10	QPSK	1	49	22.07	22.38	22.24			
10	QPSK	25	0	21.57	21.56	21.68			
10	QPSK	25	12	21.50	21.56	21.29	23	1	
10	QPSK	25	25	21.18	21.52	21.38			
10	QPSK	50	0	21.53	21.63	21.39			
10	16QAM	1	0	21.53	21.70	21.44			
10	16QAM	1	25	21.44	21.46	21.31	23	1	
10	16QAM	1	49	21.27	21.45	21.24			
10	16QAM	25	0	20.89	20.65	20.54			
10	16QAM	25	12	20.58	20.59	20.49	22	2	
10	16QAM	25	25	20.49	20.58	20.40			
10	16QAM	50	0	20.45	20.60	20.45			
10	64QAM	1	0	20.77	20.49	20.52	22	2	
10	64QAM	1	25	20.40	20.51	20.56			
10	64QAM	1	49	20.39	20.50	20.50			
10	64QAM	25	0	19.63	19.54	19.43			
10	64QAM	25	12	19.54	19.54	19.20	21	3	
10	64QAM	25	25	19.53	19.30	19.48			
10	64QAM	50	0	19.34	19.52	19.34			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	22.44	22.45	22.20			
5	QPSK	1	12	22.30	22.40	22.20	24	0	
5	QPSK	1	24	22.29	22.35	22.16			
5	QPSK	12	0	21.63	21.56	21.65			
5	QPSK	12	7	21.29	21.40	21.25	23	1	
5	QPSK	12	13	21.40	21.29	21.22			
5	QPSK	25	0	21.50	21.55	21.54			
5	16QAM	1	0	21.50	21.55	21.57			
5	16QAM	1	12	21.52	21.43	21.36	23	1	
5	16QAM	1	24	21.30	21.41	21.22			
5	16QAM	12	0	20.71	20.62	20.45			
5	16QAM	12	7	20.48	20.45	20.46	22	2	
5	16QAM	12	13	20.55	20.50	20.46			
5	16QAM	25	0	20.31	20.43	20.47			
5	64QAM	1	0	20.66	20.48	20.59			
5	64QAM	1	12	20.55	20.57	20.45	22	2	
5	64QAM	1	24	20.34	20.35	20.48			
5	64QAM	12	0	19.57	19.45	19.40			
5	64QAM	12	7	19.44	19.60	19.32	21	3	
5	64QAM	12	13	19.58	19.35	19.42			
5	64QAM	25	0	19.37	19.37	19.34			
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	22.44	22.44	22.31			
3	QPSK	1	8	22.29	22.34	22.27	24	0	
3	QPSK	1	14	22.12	22.36	22.22			
3	QPSK	8	0	21.61	21.57	21.58			
3	QPSK	8	4	21.41	21.42	21.25	23	1	
3	QPSK	8	7	21.32	21.48	21.34			
3	QPSK	15	0	21.40	21.49	21.50			
3	16QAM	1	0	21.36	21.53	21.41			
3	16QAM	1	8	21.43	21.43	21.25	23	1	
3	16QAM	1	14	21.44	21.44	21.26			
3	16QAM	8	0	20.89	20.50	20.50			
3	16QAM	8	4	20.58	20.51	20.31	22	2	
3	16QAM	8	7	20.38	20.58	20.52			
3	16QAM	15	0	20.49	20.38	20.30			
3	64QAM	1	0	20.57	20.62	20.70			
3	64QAM	1	8	20.45	20.60	20.54	22	2	
3	64QAM	1	14	20.29	20.56	20.39			
3	64QAM	8	0	19.46	19.47	19.35			
3	64QAM	8	4	19.50	19.66	19.32	21	3	
3	64QAM	8	7	19.54	19.51	19.33			
3	64QAM	15	0	19.39	19.55	19.38			
Channel				131979	132322	132669			
Frequency (MHz)				1710.7	1745	1779.2			
1.4	QPSK	1	0	22.41	22.43	22.28			
1.4	QPSK	1	3	22.17	22.47	22.31	24	0	
1.4	QPSK	1	5	22.15	22.23	22.13			
1.4	QPSK	3	0	22.29	22.40	22.21			
1.4	QPSK	3	1	22.37	22.23	22.20			
1.4	QPSK	3	3	22.06	22.37	22.26			
1.4	QPSK	6	0	21.49	21.55	21.50	23	1	
1.4	16QAM	1	0	21.37	21.30	21.12			
1.4	16QAM	1	3	21.34	21.46	21.18	23	1	
1.4	16QAM	1	5	21.21	21.41	21.42			
1.4	16QAM	3	0	21.34	21.40	21.25			
1.4	16QAM	3	1	21.30	21.24	21.15	22	2	
1.4	16QAM	3	3	21.25	21.39	21.11			
1.4	16QAM	6	0	20.49	20.51	20.30			
1.4	64QAM	1	0	20.49	20.30	20.16			
1.4	64QAM	1	3	20.36	20.59	20.46			
1.4	64QAM	1	5	20.30	20.27	20.11	22	2	
1.4	64QAM	3	0	20.43	20.57	20.51			
1.4	64QAM	3	1	20.43	20.57	20.36			
1.4	64QAM	3	3	20.15	20.41	20.41			
1.4	64QAM	6	0	19.52	19.65	19.50	21	3	

Band 71 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	



Band 7 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.41	22.52	22.12	24	0	
20	QPSK	1	49	22.36	22.51	22.08			
20	QPSK	1	99	22.30	22.48	22.08			
20	QPSK	50	0	21.42	21.52	21.22			
20	QPSK	50	24	21.24	21.48	21.02	23	1	
20	QPSK	50	50	21.31	21.44	21.38			
20	QPSK	100	0	21.31	21.43	21.26			
20	16QAM	1	0	21.70	21.77	21.59			
20	16QAM	1	49	21.47	21.65	21.47	23	1	
20	16QAM	1	99	21.44	21.76	21.38			
20	16QAM	50	0	20.49	20.46	20.30			
20	16QAM	50	24	20.21	20.52	20.11	22	2	
20	16QAM	50	50	20.24	20.43	20.27			
20	16QAM	100	0	20.40	20.42	20.17			
20	64QAM	1	0	20.71	20.63	20.58			
20	64QAM	1	49	20.52	20.55	20.41	22	2	
20	64QAM	1	99	20.44	20.50	20.45			
20	64QAM	50	0	19.50	19.48	19.23			
20	64QAM	50	24	19.28	19.44	19.15	21	3	
20	64QAM	50	50	19.31	19.39	19.30			
20	64QAM	100	0	19.47	19.40	19.20			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.39	22.51	22.12	24	0	
15	QPSK	1	37	22.21	22.46	22.14			
15	QPSK	1	74	22.25	22.43	22.02			
15	QPSK	36	0	21.43	21.36	21.10			
15	QPSK	36	20	21.05	21.32	21.01	23	1	
15	QPSK	36	39	21.18	21.22	21.27			
15	QPSK	75	0	21.12	21.43	21.16			
15	16QAM	1	0	21.55	21.54	21.57			
15	16QAM	1	37	21.38	21.46	21.38	23	1	
15	16QAM	1	74	21.40	21.60	21.37			
15	16QAM	36	0	20.38	20.34	20.17			
15	16QAM	36	20	20.14	20.39	20.02	22	2	
15	16QAM	36	39	20.17	20.40	20.28			
15	16QAM	75	0	20.23	20.33	20.00			
15	64QAM	1	0	20.54	20.53	20.47			
15	64QAM	1	37	20.52	20.35	20.33	22	2	
15	64QAM	1	74	20.42	20.47	20.47			
15	64QAM	36	0	19.37	19.27	19.11			
15	64QAM	36	20	19.14	19.30	19.01	21	3	
15	64QAM	36	39	19.29	19.23	19.09			
15	64QAM	75	0	19.44	19.31	19.08			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.40	22.51	22.11	24	0	
10	QPSK	1	25	22.38	22.34	22.13			
10	QPSK	1	49	22.22	22.47	22.06			
10	QPSK	25	0	21.39	21.31	21.00	23	1	
10	QPSK	25	12	21.24	21.48	21.15			
10	QPSK	25	25	21.18	21.45	21.16			
10	QPSK	50	0	21.16	21.43	21.24			
10	16QAM	1	0	21.55	21.52	21.40			
10	16QAM	1	25	21.40	21.48	21.34	23	1	
10	16QAM	1	49	21.44	21.52	21.24			
10	16QAM	25	0	20.35	20.37	20.19			
10	16QAM	25	12	20.18	20.36	20.10	22	2	
10	16QAM	25	25	20.12	20.23	20.16			
10	16QAM	50	0	20.39	20.33	20.17			
10	64QAM	1	0	20.50	20.61	20.57			
10	64QAM	1	25	20.39	20.52	20.29	22	2	
10	64QAM	1	49	20.42	20.32	20.32			
10	64QAM	25	0	19.30	19.33	19.09			
10	64QAM	25	12	19.15	19.26	19.07	21	3	
10	64QAM	25	25	19.26	19.35	19.11			
10	64QAM	50	0	19.42	19.33	19.22			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.29	22.48	22.04	24	0	
5	QPSK	1	12	22.37	22.31	22.09			
5	QPSK	1	24	22.24	22.48	22.06			
5	QPSK	12	0	21.39	21.37	21.03	23	1	
5	QPSK	12	7	21.13	21.28	21.13			
5	QPSK	12	13	21.17	21.40	21.23			
5	QPSK	25	0	21.28	21.41	21.26			
5	16QAM	1	0	21.58	21.49	21.39	23	1	
5	16QAM	1	12	21.38	21.48	21.15			
5	16QAM	1	24	21.35	21.62	21.33			
5	16QAM	12	0	20.40	20.45	20.32			
5	16QAM	12	7	20.12	20.40	20.05	22	2	
5	16QAM	12	13	20.20	20.33	20.18			
5	16QAM	25	0	20.20	20.41	20.07			
5	64QAM	1	0	20.49	20.51	20.38			
5	64QAM	1	12	20.35	20.35	20.16	22	2	
5	64QAM	1	24	20.34	20.28	20.24			
5	64QAM	12	0	19.29	19.30	19.08			
5	64QAM	12	7	19.24	19.25	19.02	21	3	
5	64QAM	12	13	19.12	19.40	19.18			
5	64QAM	25	0	19.44	19.37	19.19			

Band 30 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27650	27710	27770			
Frequency (MHz)				2310					
10	QPSK	1	0		22.34		24	0	
10	QPSK	1	25		22.31				
10	QPSK	1	49		22.29				
10	QPSK	25	0		21.52				
10	QPSK	25	12		21.47		23	1	
10	QPSK	25	25		21.31				
10	QPSK	50	0		21.43				
10	16QAM	1	0		21.74				
10	16QAM	1	25		21.70		23	1	
10	16QAM	1	49		21.68				
10	16QAM	25	0		20.51				
10	16QAM	25	12		20.36		22	2	
10	16QAM	25	25		20.38				
10	16QAM	50	0		20.39				
10	64QAM	1	0		20.65				
10	64QAM	1	25		20.59		22	2	
10	64QAM	1	49		20.52				
10	64QAM	25	0		19.49				
10	64QAM	25	12		19.44		21	3	
10	64QAM	25	25		19.42				
10	64QAM	50	0		19.42				
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	22.25	22.33	22.18	24	0	
5	QPSK	1	12	22.24	22.22	22.22			
5	QPSK	1	24	22.21	22.16	22.15			
5	QPSK	12	0	21.38	21.51	21.44			
5	QPSK	12	7	21.37	21.36	21.44	23	1	
5	QPSK	12	13	21.29	21.09	21.25			
5	QPSK	25	0	21.39	21.33	21.22			
5	16QAM	1	0	21.53	21.53	21.72			
5	16QAM	1	12	21.60	21.71	21.55	23	1	
5	16QAM	1	24	21.64	21.56	21.50			
5	16QAM	12	0	20.50	20.39	20.50			
5	16QAM	12	7	20.36	20.38	20.24	22	2	
5	16QAM	12	13	20.35	20.22	20.18			
5	16QAM	25	0	20.22	20.25	20.32			
5	64QAM	1	0	20.52	20.55	20.54			
5	64QAM	1	12	20.59	20.59	20.53	22	2	
5	64QAM	1	24	20.52	20.39	20.44			
5	64QAM	12	0	19.33	19.30	19.33			
5	64QAM	12	7	19.39	19.22	19.37	21	3	
5	64QAM	12	13	19.33	19.29	19.25			
5	64QAM	25	0	19.36	19.20	19.37			



Band 38 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Tune-up [dBm]	MFR [dB]	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.32	22.32	22.32	24	0	
20	QPSK	1	48	22.30	22.34	22.34			
20	QPSK	1	96	22.28	22.36	22.36			
20	QPSK	50	0	21.32	21.34	21.37	23	1	
20	QPSK	50	24	21.43	21.49	21.50			
20	QPSK	50	48	21.53	21.61	21.64			
20	QPSK	100	0	21.38	21.49	21.54	23	1	
20	QPSK	100	24	21.41	21.48	21.52			
20	QPSK	100	48	21.53	21.61	21.64			
20	QPSK	100	72	21.61	21.69	21.72			
20	QPSK	100	96	21.71	21.78	21.80			
20	QPSK	100	120	21.81	21.88	21.90			
20	QPSK	100	144	21.91	21.98	22.00			
20	QPSK	100	168	22.01	22.08	22.10			
20	QPSK	100	192	22.11	22.18	22.20			
20	QPSK	100	216	22.21	22.28	22.30			
20	QPSK	100	240	22.31	22.38	22.40			
20	QPSK	100	264	22.41	22.48	22.50			
20	QPSK	100	288	22.51	22.58	22.60			
20	QPSK	100	312	22.61	22.68	22.70			
20	QPSK	100	336	22.71	22.78	22.80			
20	QPSK	100	360	22.81	22.88	22.90			
20	QPSK	100	384	22.91	22.98	23.00			
20	QPSK	100	408	23.01	23.08	23.10			
20	QPSK	100	432	23.11	23.18	23.20			
20	QPSK	100	456	23.21	23.28	23.30			
20	QPSK	100	480	23.31	23.38	23.40			
20	QPSK	100	504	23.41	23.48	23.50			
20	QPSK	100	528	23.51	23.58	23.60			
20	QPSK	100	552	23.61	23.68	23.70			
20	QPSK	100	576	23.71	23.78	23.80			
20	QPSK	100	600	23.81	23.88	23.90			
20	QPSK	100	624	23.91	23.98	24.00			
20	QPSK	100	648	24.01	24.08	24.10			
20	QPSK	100	672	24.11	24.18	24.20			
20	QPSK	100	696	24.21	24.28	24.30			
20	QPSK	100	720	24.31	24.38	24.40			
20	QPSK	100	744	24.41	24.48	24.50			
20	QPSK	100	768	24.51	24.58	24.60			
20	QPSK	100	792	24.61	24.68	24.70			
20	QPSK	100	816	24.71	24.78	24.80			
20	QPSK	100	840	24.81	24.88	24.90			
20	QPSK	100	864	24.91	24.98	25.00			
20	QPSK	100	888	25.01	25.08	25.10			
20	QPSK	100	912	25.11	25.18	25.20			
20	QPSK	100	936	25.21	25.28	25.30			
20	QPSK	100	960	25.31	25.38	25.40			
20	QPSK	100	984	25.41	25.48	25.50			
20	QPSK	100	1008	25.51	25.58	25.60			
20	QPSK	100	1032	25.61	25.68	25.70			
20	QPSK	100	1056	25.71	25.78	25.80			
20	QPSK	100	1080	25.81	25.88	25.90			
20	QPSK	100	1104	25.91	25.98	26.00			
20	QPSK	100	1128	26.01	26.08	26.10			
20	QPSK	100	1152	26.11	26.18	26.20			
20	QPSK	100	1176	26.21	26.28	26.30			
20	QPSK	100	1200	26.31	26.38	26.40			
20	QPSK	100	1224	26.41	26.48	26.50			
20	QPSK	100	1248	26.51	26.58	26.60			
20	QPSK	100	1272	26.61	26.68	26.70			
20	QPSK	100	1296	26.71	26.78	26.80			
20	QPSK	100	1320	26.81	26.88	26.90			
20	QPSK	100	1344	26.91	26.98	27.00			
20	QPSK	100	1368	27.01	27.08	27.10			
20	QPSK	100	1392	27.11	27.18	27.20			
20	QPSK	100	1416	27.21	27.28	27.30			
20	QPSK	100	1440	27.31	27.38	27.40			
20	QPSK	100	1464	27.41	27.48	27.50			
20	QPSK	100	1488	27.51	27.58	27.60			
20	QPSK	100	1512	27.61	27.68	27.70			
20	QPSK	100	1536	27.71	27.78	27.80			
20	QPSK	100	1560	27.81	27.88	27.90			
20	QPSK	100	1584	27.91	27.98	28.00			
20	QPSK	100	1608	28.01	28.08	28.10			
20	QPSK	100	1632	28.11	28.18	28.20			
20	QPSK	100	1656	28.21	28.28	28.30			
20	QPSK	100	1680	28.31	28.38	28.40			
20	QPSK	100	1704	28.41	28.48	28.50			
20	QPSK	100	1728	28.51	28.58	28.60			
20	QPSK	100	1752	28.61	28.68	28.70			
20	QPSK	100	1776	28.71	28.78	28.80			
20	QPSK	100	1800	28.81	28.88	28.90			
20	QPSK	100	1824	28.91	28.98	29.00			
20	QPSK	100	1848	29.01	29.08	29.10			
20	QPSK	100	1872	29.11	29.18	29.20			
20	QPSK	100	1896	29.21	29.28	29.30			
20	QPSK	100	1920	29.31	29.38	29.40			
20	QPSK	100	1944	29.41	29.48	29.50			
20	QPSK	100	1968	29.51	29.58	29.60			
20	QPSK	100	1992	29.61	29.68	29.70			
20	QPSK	100	2016	29.71	29.78	29.80			
20	QPSK	100	2040	29.81	29.88	29.90			
20	QPSK	100	2064	29.91	29.98	30.00			
20	QPSK	100	2088	30.01	30.08	30.10			
20	QPSK	100	2112	30.11	30.18	30.20			
20	QPSK	100	2136	30.21	30.28	30.30			
20	QPSK	100	2160	30.31	30.38	30.40			
20	QPSK	100	2184	30.41	30.48	30.50			
20	QPSK	100	2208	30.51	30.58	30.60			
20	QPSK	100	2232	30.61	30.68	30.70			
20	QPSK	100	2256	30.71	30.78	30.80			
20	QPSK	100	2280	30.81	30.88	30.90			
20	QPSK	100	2304	30.91	30.98	31.00			
20	QPSK	100	2328	31.01	31.08	31.10			
20	QPSK	100	2352	31.11	31.18	31.20			
20	QPSK	100	2376	31.21	31.28	31.30			
20	QPSK	100	2400	31.31	31.38	31.40			
20	QPSK	100	2424	31.41	31.48	31.50			
20	QPSK	100	2448	31.51	31.58	31.60			
20	QPSK	100	2472	31.61	31.68	31.70			
20	QPSK	100	2496	31.71	31.78	31.80			
20	QPSK	100	2520	31.81	31.88	31.90			
20	QPSK	100	2544	31.91	31.98	32.00			
20	QPSK	100	2568	32.01	32.08	32.10			
20	QPSK	100	2592	32.11	32.18	32.20			
20	QPSK	100	2616	32.21	32.28	32.30			
20	QPSK	100	2640	32.31	32.38	32.40			
20	QPSK	100	2664	32.41	32.48	32.50			
20	QPSK	100	2688	32.51	32.58	32.60			
20	QPSK	100	2712	32.61	32.68	32.70			
20	QPSK	100	2736	32.71	32.78	32.80			
20	QPSK	100	2760	32.81	32.88	32.90			
20	QPSK	100	2784	32.91	32.98	33.00			
20	QPSK	100	2808	33.01	33.08	33.10			
20	QPSK	100	2832	33.11	33.18	33.20			
20	QPSK	100	2856	33.21	33.28	33.30			
20	QPSK	100	2880	33.31	33.38	33.40			
20	QPSK	100	2904	33.41	33.48	33.50			
20	QPSK	100	2928	33.51	33.58	33.60			
20	QPSK	100	2952	33.61	33.68	33.70			
20	QPSK	100	2976	33.71	33.78	33.80			
20	QPSK	100	3000	33.81	33.88	33.90			
20	QPSK	100	3024	33.91	33.98	34.00			
20	QPSK	100	3048	34.01	34.08	34.10			



Band 41 Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.61	21.89	21.92	21.70	21.52	22.5	0
20	QPSK	1	49	21.60	21.83	21.89	21.68	21.57		
20	QPSK	1	99	21.58	21.70	21.86	21.55	21.47	21.5	1
20	QPSK	50	0	20.70	20.78	21.05	20.76	20.61		
20	QPSK	50	24	20.59	20.84	20.78	20.79	20.58	21.5	1
20	QPSK	50	50	20.57	20.68	20.74	20.61	20.58		
20	QPSK	100	0	20.67	20.81	20.97	20.69	20.59	21.5	1
20	16QAM	1	0	20.57	20.81	20.84	20.73	20.41		
20	16QAM	1	49	20.52	20.70	20.73	20.61	20.46	21.5	1
20	16QAM	1	99	20.52	20.62	20.73	20.47	20.37		
20	16QAM	50	0	19.72	19.90	19.88	19.74	19.51	20.5	2
20	16QAM	50	24	19.51	19.80	19.88	19.69	19.50		
20	16QAM	50	50	19.45	19.70	19.86	19.53	19.54	20.5	2
20	16QAM	100	0	19.58	19.79	19.97	19.67	19.50		
20	64QAM	1	0	19.18	19.19	19.39	19.20	19.03	20.5	2
20	64QAM	1	49	19.02	19.22	19.23	19.10	19.05		
20	64QAM	1	99	19.00	19.06	19.23	18.98	19.02	19.5	3
20	64QAM	50	0	18.60	18.72	18.75	18.65	18.52		
20	64QAM	50	24	18.50	18.73	18.75	18.80	18.55	19.5	3
20	64QAM	50	50	18.63	18.63	18.65	18.48	18.54		
20	64QAM	100	0	18.73	18.89	18.94	18.68	18.53		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.49	21.82	21.88	21.61	21.42	22.5	0
15	QPSK	1	37	21.49	21.71	21.73	21.59	21.40		
15	QPSK	1	74	21.45	21.62	21.70	21.43	21.50	21.5	1
15	QPSK	36	0	20.38	20.64	20.89	20.71	20.56		
15	QPSK	36	39	20.45	20.72	20.70	20.63	20.41	21.5	1
15	QPSK	36	39	20.51	20.53	20.69	20.56	20.52		
15	QPSK	75	0	20.53	20.76	20.93	20.56	20.47	21.5	1
15	16QAM	1	0	20.53	20.67	20.67	20.64	20.28		
15	16QAM	1	37	20.39	20.59	20.69	20.54	20.37	20.5	2
15	16QAM	1	74	20.43	20.46	20.57	20.40	20.28		
15	16QAM	36	0	19.58	19.80	19.84	19.62	19.38	20.5	2
15	16QAM	36	20	19.49	19.64	19.79	19.62	19.38		
15	16QAM	36	39	19.52	19.64	19.71	19.46	19.48	20.5	2
15	16QAM	75	0	19.40	19.67	19.86	19.61	19.37		
15	64QAM	1	0	19.04	19.03	19.23	19.10	18.91	20.5	2
15	64QAM	1	37	18.92	19.19	19.10	19.05	18.94		
15	64QAM	1	74	18.94	19.03	19.10	18.92	18.85	19.5	3
15	64QAM	36	0	18.54	18.61	18.59	18.60	18.39		
15	64QAM	36	20	18.40	18.67	18.62	18.75	18.42	19.5	3
15	64QAM	36	39	18.48	18.57	18.59	18.40	18.47		
15	64QAM	75	0	18.66	18.85	18.80	18.65	18.45		
Channel										
Frequency (MHz)				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.48	21.85	21.84	21.64	21.37	22.5	0
10	QPSK	1	25	21.51	21.69	21.75	21.53	21.43		
10	QPSK	1	49	21.54	21.59	21.70	21.40	21.43	21.5	1
10	QPSK	25	0	20.59	20.72	20.93	20.62	20.56		
10	QPSK	25	12	20.49	20.78	20.70	20.58	20.50	21.5	1
10	QPSK	25	25	20.50	20.62	20.63	20.47	20.43		
10	QPSK	50	0	20.57	20.70	20.84	20.57	20.51	21.5	1
10	16QAM	1	0	20.42	20.74	20.70	20.60	20.32		
10	16QAM	1	25	20.47	20.63	20.61	20.58	20.41	20.5	2
10	16QAM	1	49	20.38	20.55	20.64	20.33	20.29		
10	16QAM	25	0	19.60	19.84	19.84	19.67	19.39	20.5	2
10	16QAM	25	12	19.52	19.66	19.80	19.60	19.41		
10	16QAM	25	25	19.51	19.54	19.78	19.47	19.49	20.5	2
10	16QAM	50	0	19.52	19.70	19.83	19.53	19.41		
10	64QAM	1	0	19.09	19.07	19.34	19.09	18.87	20.5	2
10	64QAM	1	25	18.90	19.08	19.17	19.06	19.00		
10	64QAM	1	49	18.89	18.92	19.08	18.86	18.92	19.5	3
10	64QAM	25	0	18.49	18.64	18.71	18.52	18.43		
10	64QAM	25	12	18.41	18.60	18.71	18.76	18.41	20.5	2
10	64QAM	25	25	18.56	18.52	18.56	18.41	18.41		
10	64QAM	50	0	18.67	18.79	18.89	18.56	18.39		
Channel										
Frequency (MHz)				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.55	21.84	21.86	21.62	21.45	22.5	0
5	QPSK	1	12	21.55	21.67	21.74	21.64	21.53		
5	QPSK	1	24	21.54	21.66	21.77	21.38	21.52	21.5	1
5	QPSK	12	0	20.56	20.65	20.92	20.70	20.53		
5	QPSK	12	7	20.56	20.80	20.64	20.66	20.52	21.5	1
5	QPSK	12	13	20.42	20.52	20.67	20.55	20.46		
5	QPSK	25	0	20.36	20.76	20.80	20.35	20.34	21.5	1
5	16QAM	1	0	20.47	20.77	20.75	20.70	20.36		
5	16QAM	1	12	20.41	20.55	20.61	20.57	20.33	20.5	2
5	16QAM	1	24	20.41	20.57	20.69	20.33	20.45		
5	16QAM	12	0	19.67	19.64	19.74	19.60	19.46	20.5	2
5	16QAM	12	7	19.48	19.69	19.74	19.55	19.45		
5	16QAM	12	13	19.32	19.55	19.63	19.42	19.49	20.5	2
5	16QAM	25	0	19.53	19.67	19.89	19.60	19.46		
5	64QAM	1	0	19.15	19.05	19.24	19.07	18.93	20.5	2
5	64QAM	1	12	18.87	19.05	19.20	18.94	18.98		
5	64QAM	1	24	18.84	19.00	19.13	18.87	18.90	19.5	3
5	64QAM	12	0	18.50	18.65	18.68	18.50	18.36		
5	64QAM	12	7	18.40	18.56	18.60	18.56	18.50	20.5	2
5	64QAM	12	13	18.50	18.57	18.53	18.33	18.40		
5	64QAM	25	0	18.66	18.81	18.70	18.60	18.40		

Band 41 HPUE Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.60	24.69	24.74	24.56	24.45	25.5	0
20	QPSK	1	49	24.48	24.54	24.65	24.52	24.38		
20	QPSK	1	99	24.55	24.55	24.62	24.38	24.27	24.5	1
20	QPSK	50	0	23.65	23.76	23.77	23.49	23.38		
20	QPSK	50	24	23.43	23.64	23.65	23.42	23.32	24.5	1
20	QPSK	50	50	23.59	23.63	23.61	23.46	23.48		
20	QPSK	100	0	23.48	23.68	23.70	23.46	23.33	24.5	1
20	16QAM	1	0	23.60	23.62	23.67	23.44	23.35		
20	16QAM	1	49	23.67	23.65	23.59	23.42	23.51	24.5	1
20	16QAM	1	99	23.63	23.51	23.64	23.39	23.36		
20	16QAM	50	0	22.62	22.68	22.82	22.43	22.50	23.5	2
20	16QAM	50	24	22.53	22.59	22.57	22.50	22.41		
20	16QAM	50	50	22.50	22.72	22.64	22.40	22.45	23.5	2
20	16QAM	100	0	22.55	22.61	22.71	22.46	22.29		
20	64QAM	1	0	22.30	22.33	22.41	22.26	22.28	23.5	2
20	64QAM	1	49	22.26	22.25	22.47	22.10	22.23		
20	64QAM	1	99	22.38	22.41	22.43	22.25	22.22	22.5	3
20	64QAM	50	0	21.74	21.83	21.93	21.64	21.66		
20	64QAM	50	24	21.60	21.77	21.79	21.51	21.58	22.5	3
20	64QAM	50	50							



Band 2 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.22	20.21	20.21	22	0	
20	QPSK	1	49	20.96	21.16	20.94			
20	QPSK	1	99	20.91	21.11	21.14			
20	QPSK	50	0	19.91	20.27	20.10			
20	QPSK	50	24	19.88	20.24	19.82	21	1	
20	QPSK	50	50	19.93	20.19	20.14			
20	QPSK	100	0	19.89	20.26	20.06			
20	16QAM	1	0	20.09	20.36	20.31			
20	16QAM	1	49	20.01	20.21	19.96	21	1	
20	16QAM	1	99	19.90	20.27	20.17			
20	16QAM	50	0	19.21	19.42	19.30			
20	16QAM	50	24	19.10	19.31	19.11			
20	16QAM	50	50	19.09	19.23	19.27	20	2	
20	16QAM	100	0	19.04	19.28	19.18			
20	64QAM	1	0	18.91	19.24	19.04			
20	64QAM	1	49	18.76	19.17	18.80	20	2	
20	64QAM	1	99	18.88	19.23	19.06			
20	64QAM	50	0	18.08	18.56	18.36			
20	64QAM	50	24	18.17	18.36	18.13			
20	64QAM	50	50	18.18	18.42	18.30	19	3	
20	64QAM	100	0	18.07	18.28	18.19			
Channel									
Frequency (MHz)									
15	QPSK	1	0	20.81	21.19	20.96			
15	QPSK	1	37	20.71	20.99	20.84	22	0	
15	QPSK	1	74	20.81	21.00	21.08			
15	QPSK	35	0	19.73	20.14	19.99			
15	QPSK	35	20	19.71	20.02	19.73	21	1	
15	QPSK	36	39	19.89	20.10	20.13			
15	QPSK	75	0	19.81	20.13	19.97			
15	16QAM	1	0	20.02	20.34	20.31			
15	16QAM	1	37	19.90	20.15	19.96	21	1	
15	16QAM	1	74	19.87	20.22	20.15			
15	16QAM	36	0	19.00	19.19	19.17			
15	16QAM	36	20	19.03	19.34	19.04	20	2	
15	16QAM	36	39	18.88	19.10	19.09			
15	16QAM	75	0	19.01	19.28	19.18			
15	64QAM	1	0	18.91	19.01	18.92			
15	64QAM	1	37	18.81	19.02	18.77	20	2	
15	64QAM	1	74	18.88	19.00	18.98			
15	64QAM	36	0	18.00	18.36	18.36			
15	64QAM	36	20	17.99	18.21	18.03	19	3	
15	64QAM	36	39	17.88	18.21	18.03			
15	64QAM	75	0	18.07	18.07	18.12			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.92	21.09	21.08			
10	QPSK	1	25	20.71	21.10	20.76	22	0	
10	QPSK	1	49	20.81	21.09	21.04			
10	QPSK	25	0	19.88	20.14	20.06			
10	QPSK	25	12	19.89	20.18	19.86	21	1	
10	QPSK	25	25	19.94	19.97	20.00			
10	QPSK	50	0	19.76	20.13	19.86			
10	16QAM	1	0	20.08	20.31	20.14			
10	16QAM	1	25	19.98	20.11	19.92	21	1	
10	16QAM	1	49	19.98	20.22	20.06			
10	16QAM	25	0	19.11	19.29	19.17			
10	16QAM	25	12	18.98	19.13	18.93	20	2	
10	16QAM	25	25	18.94	19.14	19.18			
10	16QAM	50	0	18.88	19.09	19.03			
10	64QAM	1	0	18.83	19.08	18.93	20	2	
10	64QAM	1	25	18.96	19.18	18.98			
10	64QAM	1	49	18.96	19.15	18.98			
10	64QAM	25	0	18.08	18.39	18.34			
10	64QAM	25	12	18.06	18.36	18.13	19	3	
10	64QAM	25	25	18.12	18.27	18.22			
10	64QAM	50	0	17.89	18.16	18.04			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.90	21.14	21.14	22	0	
5	QPSK	1	12	20.86	21.05	20.74			
5	QPSK	1	24	20.85	21.05	21.11			
5	QPSK	12	0	19.89	20.10	20.10	21	1	
5	QPSK	12	7	19.77	20.20	19.73			
5	QPSK	12	13	19.82	20.08	20.01			
5	QPSK	25	0	19.96	20.21	20.08			
5	16QAM	1	0	19.96	20.24	20.20			
5	16QAM	1	12	19.99	20.07	19.98	21	1	
5	16QAM	1	24	19.98	20.20	20.18			
5	16QAM	12	0	19.22	19.29	19.24	20	2	
5	16QAM	12	7	19.02	19.18	18.99			
5	16QAM	12	13	18.90	19.03	19.09			
5	16QAM	25	0	18.94	19.29	19.19			
5	64QAM	1	0	18.72	19.12	18.93	20	2	
5	64QAM	1	12	18.79	18.98	18.81			
5	64QAM	1	24	18.90	19.12	18.87			
5	64QAM	12	0	17.94	18.28	18.14	19	3	
5	64QAM	12	7	17.96	18.35	18.07			
5	64QAM	12	13	18.06	18.27	18.20			
5	64QAM	25	0	17.97	18.21	18.15			
Channel									
Frequency (MHz)									
3	QPSK	1	0	20.88	21.11	20.98	22	0	
3	QPSK	1	8	20.79	21.10	20.74			
3	QPSK	1	14	20.87	21.03	20.92			
3	QPSK	8	0	19.71	20.04	20.11	21	1	
3	QPSK	8	4	19.76	20.13	19.71			
3	QPSK	8	7	19.87	20.05	19.85			
3	QPSK	15	0	19.90	20.22	19.89			
3	16QAM	1	0	19.95	20.27	20.12			
3	16QAM	1	8	19.88	20.03	19.95	21	1	
3	16QAM	1	14	19.92	20.06	20.10			
3	16QAM	8	0	19.08	19.34	19.30			
3	16QAM	8	4	19.00	19.28	19.08	20	2	
3	16QAM	8	7	18.97	19.07	19.16			
3	16QAM	15	0	18.94	19.10	19.14			
3	64QAM	1	0	18.82	18.99	18.97			
3	64QAM	1	8	18.70	18.98	18.78	20	2	
3	64QAM	1	14	18.81	18.98	18.87			
3	64QAM	8	0	17.90	18.37	18.34			
3	64QAM	8	4	18.07	18.38	18.15	19	3	
3	64QAM	8	7	17.98	18.29	18.12			
3	64QAM	15	0	18.06	18.08	18.15			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	20.79	21.15	20.99	22	0	
1.4	QPSK	1	3	20.79	20.95	20.88			
1.4	QPSK	1	5	20.84	21.02	21.10			
1.4	QPSK	3	0	20.85	21.13	20.98			
1.4	QPSK	3	1	20.68	21.10	20.66	21	1	
1.4	QPSK	3	3	20.80	20.83	20.73			
1.4	QPSK	6	0	19.73	20.18	20.11			
1.4	16QAM	1	0	19.71	19.96	19.66			
1.4	16QAM	1	3	19.70	19.96	19.86	21	1	
1.4	16QAM	1	5	19.72	20.08	19.77			
1.4	16QAM	3	0	19.85	20.09	20.03			
1.4	16QAM	3	1	19.77	19.94	19.76			
1.4	16QAM	3	3	19.84	20.03	19.92			
1.4	16QAM	6	0	18.90	19.27	19.21	20	2	
1.4	64QAM	1	0	19.01	19.19	18.94			
1.4	64QAM	1	3	18.88	19.08	18.95			
1.4	64QAM	1	5	18.76	18.93	18.99	20	2	
1.4	64QAM	3	0	18.79	18.93	18.84			
1.4	64QAM	3	1	18.70	18.98	18.68			
1.4	64QAM	3	3	18.69	18.98	18.71			
1.4	64QAM	6	0	17.87	18.06	18.00	19	3	

Band 4 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.81	20.82	20.82	22	0	
20	QPSK	1	49	20.78	20.79	20.79			
20	QPSK	1	99	20.80	20.78	20.64			
20	QPSK	50	0	20.08	20.18	20.00			
20	QPSK	50	24	20.06	20.17	20.02	21	1	
20	QPSK	50	50	20.08	20.14	20.01			
20	QPSK	10							



Band 7 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2310	2535	2560			
20	QPSK	1	0	22.53	22.55	22.51			
20	QPSK	1	49	22.39	22.50	22.42	24	0	
20	QPSK	1	99	22.39	22.49	22.37			
20	QPSK	50	0	21.52	21.61	21.45			
20	QPSK	50	24	21.41	21.57	21.42	23	1	
20	QPSK	50	50	21.42	21.48	21.35			
20	QPSK	100	0	21.60	21.62	21.58			
20	16QAM	1	0	21.56	21.54	21.48			
20	16QAM	1	49	21.44	21.44	21.44	23	1	
20	16QAM	1	99	21.44	21.53	21.40			
20	16QAM	50	0	20.59	20.55	20.47			
20	16QAM	50	24	20.34	20.61	20.45			
20	16QAM	50	50	20.45	20.54	20.42	22	2	
20	16QAM	100	0	20.60	20.56	20.61			
20	16QAM	1	0	20.55	20.55	20.45			
20	64QAM	1	49	20.35	20.56	20.41	22	2	
20	64QAM	1	99	20.46	20.52	20.41			
20	64QAM	50	0	19.47	19.61	19.47			
20	64QAM	50	24	19.43	19.57	19.40	21	3	
20	64QAM	50	50	19.43	19.50	19.36			
20	64QAM	100	0	19.57	19.65	19.63			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.39	22.50	22.38			
15	QPSK	1	37	22.34	22.43	22.29	24	0	
15	QPSK	1	74	22.31	22.42	22.32			
15	QPSK	36	0	21.45	21.46	21.35			
15	QPSK	36	20	21.34	21.43	21.32	23	1	
15	QPSK	36	39	21.26	21.37	21.25			
15	QPSK	75	0	21.51	21.56	21.55			
15	16QAM	1	0	21.42	21.45	21.39			
15	16QAM	1	37	21.38	21.34	21.35	23	1	
15	16QAM	1	74	21.40	21.44	21.24			
15	16QAM	36	0	20.52	20.46	20.31			
15	16QAM	36	20	20.20	20.47	20.37	22	2	
15	16QAM	36	39	20.38	20.50	20.35			
15	16QAM	75	0	20.45	20.53	20.46			
15	64QAM	1	0	20.47	20.42	20.30			
15	64QAM	1	37	20.20	20.48	20.30	22	2	
15	64QAM	1	74	20.43	20.35	20.29			
15	64QAM	36	0	19.42	19.50	19.32			
15	64QAM	36	20	19.37	19.51	19.25	21	3	
15	64QAM	36	39	19.26	19.35	19.30			
15	64QAM	75	0	19.50	19.58	19.58			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.41	22.49	22.47			
10	QPSK	1	25	22.32	22.45	22.37	24	0	
10	QPSK	1	49	22.23	22.41	22.34			
10	QPSK	25	0	21.37	21.45	21.37			
10	QPSK	25	12	21.28	21.41	21.34	23	1	
10	QPSK	25	25	21.31	21.36	21.19			
10	QPSK	50	0	21.52	21.49	21.45			
10	16QAM	1	0	21.43	21.39	21.44			
10	16QAM	1	25	21.38	21.36	21.33	23	1	
10	16QAM	1	49	21.35	21.45	21.28			
10	16QAM	25	0	20.43	20.45	20.38			
10	16QAM	25	12	20.20	20.55	20.32	22	2	
10	16QAM	25	25	20.41	20.48	20.33			
10	16QAM	50	0	20.46	20.42	20.52			
10	64QAM	1	0	20.52	20.45	20.32	22	2	
10	64QAM	1	25	20.28	20.47	20.28			
10	64QAM	1	49	20.37	20.47	20.27			
10	64QAM	25	0	19.44	19.50	19.35			
10	64QAM	25	12	19.27	19.54	19.28	21	3	
10	64QAM	25	25	19.32	19.39	19.25			
10	64QAM	50	0	19.49	19.49	19.48			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.40	22.44	22.43			
5	QPSK	1	12	22.29	22.39	22.30	24	0	
5	QPSK	1	24	22.29	22.34	22.32			
5	QPSK	12	0	21.37	21.51	21.34			
5	QPSK	12	7	21.33	21.45	21.35	23	1	
5	QPSK	12	13	21.38	21.34	21.20			
5	QPSK	25	0	21.57	21.56	21.44			
5	16QAM	1	0	21.44	21.45	21.33			
5	16QAM	1	12	21.30	21.41	21.40	23	1	
5	16QAM	1	24	21.35	21.36	21.23			
5	16QAM	12	0	20.43	20.49	20.40			
5	16QAM	12	7	20.24	20.54	20.28	22	2	
5	16QAM	12	13	20.38	20.49	20.37			
5	16QAM	25	0	20.45	20.51	20.57			
5	64QAM	1	0	20.40	20.49	20.40			
5	64QAM	1	12	20.31	20.45	20.37	22	2	
5	64QAM	1	24	20.43	20.46	20.31			
5	64QAM	12	0	19.41	19.56	19.43			
5	64QAM	12	7	19.31	19.47	19.24	21	3	
5	64QAM	12	13	19.30	19.43	19.31			
5	64QAM	25	0	19.50	19.59	19.54			

Band 12 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	22.49	22.54	22.48			
10	QPSK	1	25	22.42	22.51	22.46	23	0	
10	QPSK	1	49	22.46	22.49	22.45			
10	QPSK	25	0	21.58	21.62	21.47			
10	QPSK	25	12	21.41	21.61	21.38	22	1	
10	QPSK	25	25	21.51	21.54	21.45			
10	QPSK	50	0	21.56	21.59	21.54			
10	16QAM	1	0	21.83	21.91	21.68			
10	16QAM	1	25	21.85	21.72	21.87	22	1	
10	16QAM	1	49	21.78	21.74	21.76			
10	16QAM	25	0	20.57	20.61	20.42			
10	16QAM	25	12	20.37	20.66	20.45	21	2	
10	16QAM	25	25	20.51	20.50	20.48			
10	16QAM	50	0	20.55	20.58	20.54			
10	64QAM	1	0	20.81	20.81	20.80			
10	64QAM	1	25	20.74	20.71	20.70	21	2	
10	64QAM	1	49	20.67	20.75	20.72			
10	64QAM	25	0	19.60	19.62	19.43			
10	64QAM	25	12	19.48	19.55	19.48	20	3	
10	64QAM	25	25	19.53	19.51	19.53			
10	64QAM	50	0	19.53	19.58	19.44			
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	22.47	22.51	22.49			
5	QPSK	1	12	22.31	22.45	22.28	23	0	
5	QPSK	1	24	22.34	22.28	22.26			
5	QPSK	12	0	21.50	21.58	21.30			
5	QPSK	12	7	21.38	21.53	21.33	22	1	
5	QPSK	12	13	21.41	21.45	21.31			
5	QPSK	25	0	21.41	21.59	21.52			
5	16QAM	1	0	21.75	21.85	21.47			
5	16QAM	1	12	21.77	21.66	21.82	22	1	
5	16QAM	1	24	21.74	21.71	21.65			
5	16QAM	12	0	20.54	20.40	20.27			
5	16QAM	12	7	20.30	20.67	20.25	21	2	
5	16QAM	12	13	20.48	20.50	20.49			
5	16QAM	25	0	20.38	20.53	20.33			
5	64QAM	1	0	20.75	20.62	20.66			
5	64QAM	1	12	20.60	20.66	20.53	21	2	
5	64QAM	1	24	20.66	20.60	20.61			
5	64QAM	12	0	19.39	19.60	19.44			
5	64QAM	12	7	19.35	19.50	19.26	20	3	
5	64QAM	12	13	19.38	19.43	19.33			
5	64QAM	25	0	19.24					



Band 14 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23305	23330	23355			
Frequency (MHz)				793					
10	QPSK	1	0	22.29			23	0	
10	QPSK	1	25	22.28					
10	QPSK	1	49	22.22					
10	QPSK	25	0	21.18					
10	QPSK	25	12	21.14			22	1	
10	QPSK	25	25	21.12					
10	QPSK	50	0	21.29					
10	16QAM	1	0	21.58			22	1	
10	16QAM	1	25	21.52					
10	16QAM	1	49	21.50					
10	16QAM	25	0	20.23					
10	16QAM	25	12	20.23					
10	16QAM	25	25	20.21			21	2	
10	16QAM	50	0	20.29					
10	64QAM	1	0	20.41					
10	64QAM	1	25	20.39			21	2	
10	64QAM	1	49	20.35					
10	64QAM	25	0	19.27					
10	64QAM	25	12	19.25			20	3	
10	64QAM	25	25	19.17					
10	64QAM	50	0	19.30					
Channel				23305	23330	23355			
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	0	22.22	22.28	22.23	23	0	
5	QPSK	1	12	22.16	22.21	22.24			
5	QPSK	1	24	22.11	22.22	22.05			
5	QPSK	12	0	21.14	21.02	21.01	22	1	
5	QPSK	12	7	21.13	20.96	21.05			
5	QPSK	12	13	20.94	21.12	20.98			
5	QPSK	25	0	21.25	21.23	21.17			
5	16QAM	1	0	21.58	21.57	21.45	22	1	
5	16QAM	1	12	21.41	21.41	21.37			
5	16QAM	1	24	21.29	21.40	21.33			
5	16QAM	12	0	20.21	20.14	20.20	21	2	
5	16QAM	12	7	20.17	20.18	20.23			
5	16QAM	12	13	20.20	20.13	20.11			
5	16QAM	25	0	20.27	20.13	20.27			
5	64QAM	1	0	20.25	20.19	20.20	21	2	
5	64QAM	1	12	20.18	20.27	20.19			
5	64QAM	1	24	20.18	20.37	20.29			
5	64QAM	12	0	19.18	19.14	19.06			
5	64QAM	12	7	19.07	19.25	19.13	20	3	
5	64QAM	12	13	18.12	18.10	18.97			
5	64QAM	25	0	18.18	18.09	19.31			

Band 17 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				710	710	711			
10	QPSK	1	0	22.45	22.49	22.41	23	0	
10	QPSK	1	25	22.42	22.46	22.35			
10	QPSK	1	49	22.45	22.42	22.41			
10	QPSK	25	0	21.47	21.65	21.44	22	1	
10	QPSK	25	12	21.51	21.55	21.53			
10	QPSK	25	25	21.58	21.59	21.60			
10	QPSK	50	0	21.60	21.66	21.63			
10	16QAM	1	0	21.55	21.80	21.56	22	1	
10	16QAM	1	25	21.63	21.71	21.44			
10	16QAM	1	49	21.64	21.75	21.49			
10	16QAM	25	0	20.53	20.67	20.50	21	2	
10	16QAM	25	12	20.63	20.52	20.42			
10	16QAM	25	25	20.67	20.58	20.51			
10	16QAM	50	0	20.61	20.62	20.58			
10	64QAM	1	0	20.73	20.74	20.67	21	2	
10	64QAM	1	25	20.69	20.71	20.61			
10	64QAM	1	49	20.68	20.71	20.62			
10	64QAM	25	0	19.57	19.63	19.53	20	3	
10	64QAM	25	12	19.58	19.56	19.55			
10	64QAM	25	25	19.63	19.69	19.67			
10	64QAM	50	0	19.61	19.65	19.59			
Channel				23755	23790	23825			
Frequency (MHz)				708.5	710	713.5			
5	QPSK	1	0	22.41	22.46	22.41	23	0	
5	QPSK	1	12	22.40	22.39	22.24			
5	QPSK	1	24	22.28	22.29	22.27			
5	QPSK	12	0	21.38	21.53	21.40	22	1	
5	QPSK	12	7	21.37	21.47	21.44			
5	QPSK	12	13	21.37	21.38	21.57			
5	QPSK	25	0	21.55	21.48	21.50			
5	16QAM	1	0	21.55	21.67	21.35	22	1	
5	16QAM	1	12	21.52	21.56	21.37			
5	16QAM	1	24	21.47	21.60	21.31			
5	16QAM	12	0	20.51	20.45	20.28	21	2	
5	16QAM	12	7	20.46	20.51	20.40			
5	16QAM	12	13	20.53	20.57	20.51			
5	16QAM	25	0	20.42	20.54	20.38			
5	64QAM	1	0	20.59	20.63	20.66	21	2	
5	64QAM	1	12	20.50	20.58	20.57			
5	64QAM	1	24	20.60	20.53	20.41			
5	64QAM	12	0	19.43	19.57	19.38			
5	64QAM	12	7	19.39	19.43	19.54	20	3	
5	64QAM	12	13	19.42	19.60	19.46			
5	64QAM	25	0	19.51	19.50	19.37			

Band 25 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26140	26340	26590			
Frequency (MHz)				1850	1880	1910			
20	QPSK	1	0	21.07	21.07	21.21	22	0	
20	QPSK	1	49	20.95	21.26	21.15			
20	QPSK	1	99	20.90	21.24	21.11			
20	QPSK	50	0	20.06	20.27	20.22	21	1	
20	QPSK	50	24	20.01	20.25	20.23			
20	QPSK	50	50	19.99	20.23	20.10			
20	QPSK	100	0	20.02	20.31	20.28			
20	16QAM	1	0	20.24	20.43	20.27	21	1	
20	16QAM	1	49	20.16	20.42	20.13			
20	16QAM	1	99	20.07	20.42	20.20			
20	16QAM	50	0	19.13	19.25	19.29	20	2	
20	16QAM	50	24	18.99	19.35	19.33			
20	16QAM	50	50	19.02	19.23	19.09			
20	16QAM	100	0	19.12	19.32	19.17			
20	64QAM	1	0	19.17	19.33	19.18	20	2	
20	64QAM	1	49	18.85	19.17	19.15			
20	64QAM	1	99	18.84	19.24	19.04			
20	64QAM	50	0	18.22	18.26	18.24	19	3	
20	64QAM	50	24	18.21	18.34	18.22			
20	64QAM	50	50	18.10	18.15	18.12			
20	64QAM	100	0	18.20	18.29	18.36			
Channel				26115	26340	26675			
Frequency (MHz)				1857.5	1880	1907.5			
15	QPSK	1	0	21.02	21.24	21.22	22	0	
15	QPSK	1	37	20.92	21.24	21.14			
15	QPSK	1	74	20.90	21.20	21.07			
15	QPSK	38	0	20.07	20.26	20.05	21	1	
15	QPSK	38	20	19.91	20.06	20.08			
15	QPSK	38	38	19.98	20.12	20.11			
15	QPSK	75	0	19.99	20.31	20.20			
15	16QAM	1	0	20.24	20.31	20.09	21	1	
15	16QAM	1	37	20.06	20.22	20.13			
15	16QAM	1	74	20.01	20.42	20.11			
15	16QAM	38	0	18.95	19.11	19.14	20	2	
15	16QAM	38	20	18.96	19.16	19.07			
15	16QAM	38	38	18.87	19.13	18.94			
15	16QAM	75	0	19.04	19.25	19.08			
15	64QAM	1	0	19.04	19.20	19.08	20	2	
15	64QAM	1	37	18.98	19.18	19.13			
15	64QAM	1	74	18.93	19.07	18.97			
15	64QAM	38	0	18.10	18.17	18.12	19	3	
15	64QAM	38	20	18.14	18.24	18.14			
15	64QAM	38	38	17.91	18.14	18.06			
15	64QAM	75	0	18.14	18.17	18.26			
Channel				26290	26340	26640			
Frequency (MHz)				1855	1				



Band 26 Ant4 for FCC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.22	22.38	22.18	23	0	
15	QPSK	1	37	22.23	22.34	22.17			
15	QPSK	1	74	22.15	22.31	22.12			
15	QPSK	36	0	21.13	21.32	21.13	22	1	
15	QPSK	36	20	21.13	21.25	21.17			
15	QPSK	36	39	21.20	21.30	21.14			
15	QPSK	75	0	21.12	21.28	21.12	22	1	
15	16QAM	1	0	21.32	21.35	21.14			
15	16QAM	1	37	21.29	21.31	21.14			
15	16QAM	1	74	21.07	21.33	21.16	21	2	
15	16QAM	36	0	20.15	20.22	20.10			
15	16QAM	36	20	20.11	20.17	20.14			
15	16QAM	36	39	20.11	20.18	20.14	21	2	
15	16QAM	75	0	20.21	20.29	20.18			
15	16QAM	1	0	20.25	20.39	20.22			
15	64QAM	1	37	20.30	20.34	20.27	21	2	
15	64QAM	1	74	20.34	20.22	20.03			
15	64QAM	36	0	19.23	19.27	19.21			
15	64QAM	36	20	19.13	19.14	19.18	20	3	
15	64QAM	36	39	19.22	19.24	19.12			
15	64QAM	75	0	19.18	19.29	19.12			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.03	22.35	22.14	23	0	
10	QPSK	1	25	22.03	22.21	22.10			
10	QPSK	1	49	22.11	22.29	22.00			
10	QPSK	25	0	21.01	21.20	21.12	22	1	
10	QPSK	25	12	21.14	21.24	21.11			
10	QPSK	25	25	21.12	21.12	20.94			
10	QPSK	50	0	20.91	21.14	21.08	22	1	
10	16QAM	1	0	21.24	21.32	21.04			
10	16QAM	1	25	21.16	21.20	21.12			
10	16QAM	1	49	21.07	21.29	20.95	21	2	
10	16QAM	25	0	20.13	20.91	20.06			
10	16QAM	25	12	20.14	20.20	20.04			
10	16QAM	25	25	20.11	20.10	19.93	21	2	
10	16QAM	50	0	20.09	20.16	20.07			
10	64QAM	1	0	20.23	20.19	20.21			
10	64QAM	1	25	20.28	20.17	20.26	21	2	
10	64QAM	1	49	19.96	20.06	20.00			
10	64QAM	25	0	19.21	19.17	19.00			
10	64QAM	25	12	19.08	19.13	19.12	20	3	
10	64QAM	25	25	19.05	19.21	19.95			
10	64QAM	50	0	19.12	19.16	19.13			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.02	22.37	22.18	23	0	
5	QPSK	1	12	22.03	22.18	22.01			
5	QPSK	1	24	21.99	22.12	21.93			
5	QPSK	12	0	21.08	21.22	21.01	22	1	
5	QPSK	12	7	20.95	21.03	21.13			
5	QPSK	12	13	21.21	21.20	20.97			
5	QPSK	25	0	21.07	21.04	20.99	22	1	
5	16QAM	1	0	21.27	21.29	20.94			
5	16QAM	1	12	21.24	21.29	21.12			
5	16QAM	1	24	21.04	21.20	21.08	21	2	
5	16QAM	12	0	20.15	20.14	20.03			
5	16QAM	12	7	20.09	19.87	20.12			
5	16QAM	12	13	20.03	20.10	19.99	21	2	
5	16QAM	25	0	20.06	20.07	20.01			
5	64QAM	1	0	20.17	20.36	20.10			
5	64QAM	1	12	20.24	20.12	20.28	21	2	
5	64QAM	1	24	20.11	20.18	19.93			
5	64QAM	12	0	19.02	19.21	19.21			
5	64QAM	12	7	18.86	19.05	19.02	20	3	
5	64QAM	12	13	19.07	19.10	19.07			
5	64QAM	25	0	19.03	19.08	18.90			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.05	22.32	22.11	23	0	
3	QPSK	1	8	22.12	22.27	22.01			
3	QPSK	1	14	22.05	22.09	21.92			
3	QPSK	8	0	21.03	21.28	21.05	22	1	
3	QPSK	8	4	21.04	21.10	21.14			
3	QPSK	8	7	21.08	21.09	21.00			
3	QPSK	15	0	21.06	21.16	20.95	22	1	
3	16QAM	1	0	21.13	21.19	21.08			
3	16QAM	1	8	21.09	21.26	20.93			
3	16QAM	1	14	20.91	21.32	21.05	21	2	
3	16QAM	8	0	20.01	20.09	20.00			
3	16QAM	8	4	19.92	19.95	19.96			
3	16QAM	8	7	19.92	20.11	20.05	21	2	
3	16QAM	15	0	20.07	20.14	20.15			
3	64QAM	1	0	20.19	20.32	20.16			
3	64QAM	1	8	20.14	20.19	20.14	21	2	
3	64QAM	1	14	20.11	20.08	19.98			
3	64QAM	8	0	19.05	19.25	19.04			
3	64QAM	8	4	19.12	19.00	19.06	20	3	
3	64QAM	8	7	19.05	19.07	19.11			
3	64QAM	15	0	19.00	19.30	18.92			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.17	22.32	21.99	23	0	
1.4	QPSK	1	3	22.24	22.33	21.96			
1.4	QPSK	1	5	22.16	22.21	21.95			
1.4	QPSK	3	0	22.12	22.27	22.05	22	1	
1.4	QPSK	3	1	22.11	22.19	22.16			
1.4	QPSK	3	3	22.06	22.12	22.01			
1.4	16QAM	1	0	20.93	21.22	20.94	22	1	
1.4	16QAM	1	3	20.84	21.02	21.12			
1.4	16QAM	1	5	20.89	20.87	20.97			
1.4	16QAM	1	5	21.04	20.96	20.90	22	1	
1.4	16QAM	3	0	21.08	21.19	20.91			
1.4	16QAM	3	1	20.97	21.17	20.85			
1.4	16QAM	3	3	20.73	21.17	21.01	21	2	
1.4	16QAM	6	0	19.99	20.11	19.91			
1.4	64QAM	1	0	20.05	19.92	20.03			
1.4	64QAM	1	3	20.05	19.95	19.95	21	2	
1.4	64QAM	1	5	19.91	20.09	19.97			
1.4	64QAM	3	0	20.04	20.22	20.11			
1.4	64QAM	3	1	20.10	20.12	20.09	21	2	
1.4	64QAM	3	3	19.96	20.11	19.95			
1.4	64QAM	6	0	18.94	19.13	19.09			

Band 30 Ant4									
BW (MHz)	Modulation	RB 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	QPSK	1	0	22.43	22.43	22.43	23	0	
10	QPSK	1	25	22.40	22.39	22.39			
10	QPSK	1	49	22.39	22.39	22.39			
10	QPSK	25	0	21.48	21.48	21.48	22	1	
10	QPSK	25	12	21.43	21.41	21.41			
10	QPSK	25	25	21.41	21.41	21.41			
10	QPSK	50	0	21.51	21.51	21.51	22	1	
10	16QAM	1	0	21.41	21.41	21.41			
10	16QAM	1	25	21.40	21.40	21.40			
10	16QAM	1	49	21.41	21.41	21.41	21	2	
10	16QAM	25	0	20.55	20.55	20.55			
10	16QAM	25	12	20.46	20.46	20.46			
10	16QAM	25	25	20.38	20.38	20.38	21	2	
10	16QAM	50	0	20.53	20.53	20.53			
10	64QAM	1	0	20.50	20.50	20.50			
10	64QAM	1	25	20.42	20.42	20.42	21	2	
10	64QAM	1	49	20.44	20.44	21.34			
10	64QAM	25	0	19.43	19.43	19.43			
10	64QAM	25	12	19.40	19.40	19.40	20	3	
10	64QAM	25	25	19.37	19.37	19.37			
10	64QAM	50	0	19.52	19.52	19.52			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.27	22.28	22.33	23	0	
5	QPSK	1	12	22.33	22.25	22.36			
5	QPSK	1	24	22.25	22.23	22.34			
5	QPSK	12	0	21.41	21.44	21.34	22	1	
5	QPSK	12	7	21.31	21.28	21.27			
5	QPSK	12	13	21.28	21.28	21.32			
5	QPSK	25	0	21.36	21.44	21.39	22	1	
5	16QAM	1	0	21.26	21.28	21.29			
5	16QAM	1	12	21.35	21.36	21.27			
5	16QAM	1	24	21.29	21.27	21.35	21	2	
5	16QAM	12	0	20.43	20.41	20.38			
5	16QAM	12	7	20.40	20.41	20.33			
5	16QAM	12	13	20.34	20.33	20.30	21	2	
5	16QAM	25	0	20.40	20.39	20.46			
5	64QAM	1	0	20.35	20.45	20.40			
5	64QAM	1	12	20.33	20.33	20.28	21	2	
5	64QAM	1	24	20.29	20.37	20.30			
5	64QAM								

Band 71 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	693		
20	QPSK	1	0	22.49	22.54	22.43	23	0
20	QPSK	1	49	22.40	22.51	22.39		
20	QPSK	1	99	22.41	22.50	22.36		
20	QPSK	50	0	21.74	21.77	21.72	22	1
20	QPSK	50	24	21.55	21.60	21.68		
20	QPSK	50	50	21.55	21.58	21.44		
20	QPSK	100	0	21.62	21.67	21.60	22	1
20	16QAM	1	0	21.70	21.75	21.64		
20	16QAM	1	49	21.69	21.70	21.57		
20	16QAM	1	99	21.66	21.62	21.67	21	2
20	16QAM	50	0	20.63	20.72	20.65		
20	16QAM	50	24	20.66	20.56	20.58		
20	16QAM	50	50	20.66	20.70	20.35	21	2
20	16QAM	100	0	20.65	20.68	20.52		
20	64QAM	1	0	20.62	20.76	20.70		
20	64QAM	1	49	20.56	20.61	20.48	21	2
20	64QAM	1	99	20.58	20.63	20.59		
20	64QAM	50	0	19.71	19.71	19.69		
20	64QAM	50	24	19.47	19.60	19.63	20	3
20	64QAM	50	50	19.55	19.68	19.38		
20	64QAM	100	0	19.70	19.70	19.65		
Channel				133197	133297	133397		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	22.45	22.53	22.30	23	0
15	QPSK	1	37	22.37	22.29	22.21		
15	QPSK	1	74	22.38	22.47	22.29		
15	QPSK	36	0	21.53	21.68	21.71	22	1
15	QPSK	36	20	21.47	21.43	21.47		
15	QPSK	36	39	21.54	21.40	21.35		
15	QPSK	75	0	21.57	21.67	21.39	22	1
15	16QAM	1	0	21.63	21.60	21.51		
15	16QAM	1	37	21.56	21.65	21.37		
15	16QAM	1	74	21.55	21.61	21.63	21	2
15	16QAM	36	0	20.56	20.60	20.43		
15	16QAM	36	20	20.66	20.36	20.48		
15	16QAM	36	39	20.62	20.58	20.43	21	2
15	16QAM	75	0	20.44	20.63	20.46		
15	64QAM	1	0	20.52	20.58	20.68		
15	64QAM	1	37	20.42	20.52	20.34	21	2
15	64QAM	1	74	20.37	20.43	20.51		
15	64QAM	36	0	19.70	19.67	19.55		
15	64QAM	36	20	19.42	19.42	19.46	20	3
15	64QAM	36	39	19.55	19.54	19.38		
15	64QAM	75	0	19.68	19.54	19.63		
Channel				133172	133272	133422		
Frequency (MHz)				668	678	693		
10	QPSK	1	0	22.35	22.47	22.28	23	0
10	QPSK	1	25	22.23	22.36	22.40		
10	QPSK	1	49	22.32	22.30	22.15		
10	QPSK	25	0	21.55	21.64	21.50	22	1
10	QPSK	25	12	21.56	21.59	21.46		
10	QPSK	25	25	21.53	21.56	21.39		
10	QPSK	50	0	21.53	21.48	21.42	22	1
10	16QAM	1	0	21.58	21.73	21.46		
10	16QAM	1	25	21.56	21.68	21.40		
10	16QAM	1	49	21.58	21.59	21.54	21	2
10	16QAM	25	0	20.58	20.71	20.50		
10	16QAM	25	12	20.62	20.52	20.48		
10	16QAM	25	25	20.53	20.54	20.41	21	2
10	16QAM	50	0	20.66	20.50	20.52		
10	64QAM	1	0	20.52	20.57	20.51		
10	64QAM	1	25	20.42	20.52	20.38	21	2
10	64QAM	1	49	20.55	20.47	20.46		
10	64QAM	25	0	19.66	19.63	19.47		
10	64QAM	25	12	19.46	19.57	19.56	20	3
10	64QAM	25	25	19.46	19.64	19.38		
10	64QAM	50	0	19.68	19.50	19.51		
Channel				133147	133247	133447		
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	22.37	22.47	22.38	23	0
5	QPSK	1	12	22.37	22.34	22.24		
5	QPSK	1	24	22.29	22.36	22.19		
5	QPSK	12	0	21.60	21.71	21.64	22	1
5	QPSK	12	7	21.37	21.41	21.58		
5	QPSK	12	13	21.47	21.59	21.31		
5	QPSK	25	0	21.47	21.57	21.50	21	1
5	16QAM	1	0	21.69	21.65	21.63		
5	16QAM	1	12	21.52	21.59	21.43		
5	16QAM	1	24	21.63	21.63	21.60	21	2
5	16QAM	12	0	20.62	20.55	20.48		
5	16QAM	12	7	20.61	20.46	20.39		
5	16QAM	12	13	20.54	20.58	20.31	21	2
5	16QAM	25	0	20.57	20.54	20.30		
5	64QAM	1	0	20.50	20.77	20.59		
5	64QAM	1	12	20.37	20.47	20.45	21	2
5	64QAM	1	24	20.44	20.48	20.44		
5	64QAM	12	0	19.69	19.66	19.54		
5	64QAM	12	7	19.29	19.60	19.54	20	3
5	64QAM	12	13	19.44	19.53	19.37		
5	64QAM	25	0	19.63	19.56	19.53		



Band 41 Ant4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.27	19.36	19.62	19.54	19.51	20.5	0
20	QPSK	1	49	19.26	19.30	19.57	19.47	19.49		
20	QPSK	1	99	19.25	19.32	19.54	19.42	19.49		
20	QPSK	50	0	18.25	18.32	18.71	18.46	18.47	19.5	1
20	QPSK	50	24	18.22	18.27	18.57	18.48	18.47		
20	QPSK	50	50	18.24	18.32	18.42	18.43	18.43		
20	QPSK	100	0	18.31	18.42	18.69	18.55	18.55	19.5	1
20	16QAM	1	0	18.24	18.31	18.64	18.42	18.55		
20	16QAM	1	49	18.25	18.26	18.54	18.52	18.38		
20	16QAM	1	99	18.20	18.29	18.48	18.48	18.44	18.5	2
20	16QAM	50	0	17.20	17.23	17.62	17.56	17.36		
20	16QAM	50	24	17.16	17.22	17.46	17.44	17.55		
20	16QAM	50	50	17.18	17.18	17.35	17.42	17.34	18.5	2
20	16QAM	100	0	17.20	17.34	17.70	17.47	17.45		
20	64QAM	1	0	16.80	16.89	17.24	17.30	17.15		
20	64QAM	1	49	16.90	16.89	17.18	17.26	17.00	17.5	3
20	64QAM	1	99	16.92	16.96	17.17	17.26	17.04		
20	64QAM	50	0	16.28	16.31	16.67	16.42	16.32		
20	64QAM	50	24	16.23	16.17	16.44	16.36	16.42	17.5	3
20	64QAM	50	50	16.22	16.22	16.37	16.37	16.34		
20	64QAM	100	0	16.25	16.33	16.57	16.38	16.33		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.15	19.25	19.57	19.40	19.42	20.5	0
15	QPSK	1	37	19.17	19.14	19.47	19.38	19.36		
15	QPSK	1	74	19.14	19.21	19.41	19.26	19.40		
15	QPSK	36	0	18.18	18.19	18.63	18.41	18.42	19.5	1
15	QPSK	36	20	18.19	18.14	18.51	18.32	18.43		
15	QPSK	36	39	18.16	18.24	18.30	18.37	18.37		
15	QPSK	75	0	18.28	18.35	18.53	18.51	18.48	19.5	1
15	16QAM	1	0	18.08	18.18	18.55	18.29	18.45		
15	16QAM	1	37	18.11	18.22	18.44	18.46	18.32		
15	16QAM	1	74	18.05	18.18	18.40	18.37	18.40	18.5	2
15	16QAM	36	0	17.05	17.11	17.50	17.45	17.32		
15	16QAM	36	20	17.10	17.16	17.34	17.31	17.52		
15	16QAM	36	39	17.14	17.13	17.22	17.25	17.25	18.5	2
15	16QAM	75	0	17.05	17.25	17.55	17.39	17.36		
15	64QAM	1	0	16.79	16.85	17.14	16.97	17.03		
15	64QAM	1	37	16.85	16.80	17.07	17.13	16.85	18.5	2
15	64QAM	1	74	16.79	16.80	17.06	17.12	17.00		
15	64QAM	36	0	16.20	16.17	16.53	16.32	16.17		
15	64QAM	36	20	16.16	16.09	16.32	16.21	16.31	17.5	3
15	64QAM	36	39	16.19	16.16	16.29	16.31	16.26		
15	64QAM	75	0	16.15	16.19	16.50	16.28	16.30		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.11	19.28	19.55	19.42	19.47	20.5	0
10	QPSK	1	25	19.13	19.20	19.53	19.40	19.37		
10	QPSK	1	49	19.15	19.18	19.38	19.37	19.37		
10	QPSK	25	0	18.17	18.26	18.59	18.39	18.33	19.5	1
10	QPSK	25	12	18.17	18.21	18.41	18.45	18.33		
10	QPSK	25	25	18.16	18.19	18.38	18.35	18.30		
10	QPSK	50	0	18.27	18.39	18.65	18.46	18.51	19.5	1
10	16QAM	1	0	18.09	18.26	18.52	18.32	18.47		
10	16QAM	1	25	18.15	18.17	18.42	18.38	18.22		
10	16QAM	1	49	18.13	18.25	18.32	18.34	18.40	18.5	2
10	16QAM	25	0	17.14	17.14	17.46	17.45	17.22		
10	16QAM	25	12	17.08	17.06	17.31	17.28	17.48		
10	16QAM	25	25	17.06	17.09	17.20	17.39	17.22	18.5	2
10	16QAM	50	0	17.16	17.28	17.61	17.31	17.33		
10	64QAM	1	0	16.83	16.87	17.18	17.00	17.02		
10	64QAM	1	25	16.84	16.75	17.11	17.17	16.95	18.5	2
10	64QAM	1	49	16.79	16.79	17.09	17.13	16.87		
10	64QAM	25	0	16.25	16.23	16.55	16.34	16.23		
10	64QAM	25	12	16.14	16.11	16.34	16.22	16.31	17.5	3
10	64QAM	25	25	16.09	16.10	16.26	16.33	16.18		
10	64QAM	50	0	16.16	16.27	16.43	16.31	16.28		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	19.16	19.19	19.51	19.45	19.37	20.5	0
5	QPSK	1	12	19.10	19.19	19.42	19.37	19.34		
5	QPSK	1	24	19.10	19.23	19.43	19.27	19.44		
5	QPSK	12	0	18.15	18.27	18.59	18.34	18.44	19.5	1
5	QPSK	12	7	18.17	18.15	18.44	18.39	18.33		
5	QPSK	12	13	18.12	18.16	18.39	18.34	18.27		
5	QPSK	25	0	18.16	18.26	18.55	18.41	18.46	19.5	1
5	16QAM	1	0	18.13	18.27	18.55	18.35	18.50		
5	16QAM	1	12	18.19	18.18	18.50	18.37	18.30		
5	16QAM	1	24	18.14	18.21	18.40	18.42	18.38	18.5	2
5	16QAM	12	0	17.15	17.18	17.48	17.47	17.32		
5	16QAM	12	7	17.05	17.10	17.42	17.38	17.49		
5	16QAM	12	13	17.12	17.15	17.29	17.30	17.30	18.5	2
5	16QAM	25	0	17.12	17.24	17.57	17.41	17.40		
5	64QAM	1	0	16.86	16.82	17.15	17.05	17.12		
5	64QAM	1	12	16.74	16.74	17.02	17.12	16.93	18.5	2
5	64QAM	1	24	16.76	16.85	17.06	17.22	16.90		
5	64QAM	12	0	16.20	16.21	16.52	16.38	16.27		
5	64QAM	12	7	16.07	16.04	16.40	16.24	16.33	17.5	3
5	64QAM	12	13	16.14	16.16	16.32	16.30	16.22		
5	64QAM	25	0	16.08	16.25	16.47	16.32	16.16		

Band 41 HPUE Ant4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.00	22.02	22.42	22.34	22.38	23.5	0
20	QPSK	1	49	22.01	22.10	22.37	22.22	22.24		
20	QPSK	1	99	22.08	22.10	22.41	22.15	22.18		
20	QPSK	50	0	21.05	21.11	21.53	21.19	21.36	22.5	1
20	QPSK	50	24	21.04	21.07	21.28	21.11	21.26		
20	QPSK	50	50	21.04	21.05	21.40	21.21	21.23		
20	QPSK	100	0	21.19	21.19	21.53	21.31	21.44	22.5	1
20	16QAM	1	0	21.06	20.99	21.28	21.28	21.33		
20	16QAM	1	49	20.98	21.06	21.41	21.17	21.31		
20	16QAM	1	99	20.99	21.01	21.26	21.29	21.13	21.5	2
20	16QAM	50	0	19.96	20.06	20.26	20.17	20.21		
20	16QAM	50	24	20.02	20.13	20.38	20.04	20.36		
20	16QAM	50	50	20.03	20.05	20.26	20.14	20.22	21.5	2
20	16QAM	100	0	20.20	20.29	20.54	20.39	20.47		
20	64QAM	1	0	19.86	19.86	20.07	20.17	20.18		
20	64QAM	1	49	19.84	19.74	20.17	19.98	20.22	20.5	3
20	64QAM	1	99	19.87	19.83	20.10	20.06	19.84		
20	64QAM	50	0	19.11	19.12	19.36	19.21	19.27		
20	64QAM	50	24	19.07	19.04	19.31	19.03	19.34	20.5	3
20	64QAM	50	50	19.10	19.10	19.31	19.22	19.31		
20	64QAM	100	0	19.14	19.17	19.38	19.28	19.37		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.96	21.92	22.38	22.27	22.31	23.5	0
15	QPSK	1	37	21.95	21.95	22.29	22.11	22.11		
15	QPSK	1	74	21.98	22.04	22.36	22.08	22.08		
15	QPSK	36	0	21.09	21.08	21.42	21.06	21.19	22.5	1
15	QPSK	36	20	21.08	21.06	21.13	21.07	21.14		
15	QPSK	36	39	21.00	21.02	21.24	21.05	21.07		
15	QPSK	75	0	21.06	21.12	21.36	21.23	21.32	22.5	1
15	16QAM	1	0	20.92	20.94	21.13	21.12	21.20		
15	16QAM	1	37	20.90	20.98	21.25	21.02	21.25		
15	16QAM	1	74	20.90	20.90	21.19	21.24	21.00	21.5	2
15	16QAM	36	0	19.83	20.01	20.19	20.07	20.16		
15	16QAM	36	20	19.87	19.96	20.23	19.99	20.22		
15	16QAM	36	39	19.87	20.01	20.19	20.10	20.14	21.5	2
15	16QAM	75	0	20.12	20.20	20.43	20.28	20.41		
15	64QAM	1	0	19.72	19.70	19.98	20.10	20.06		
15	64QAM	1	37	19.71	19.77	20.09	19.92</			



Band 48 Ant5_FCC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				55340	55830	56150	56640				
Frequency (MHz)				3560	3609	3641	3690				
20	QPSK	1	0	22.38	22.51	22.44	22.46	24	0		
20	QPSK	1	49	22.25	22.49	22.28	22.37				
20	QPSK	1	99	22.20	22.48	22.28	22.32				
20	QPSK	50	0	21.45	21.52	21.50	21.37				
20	QPSK	50	24	21.36	21.50	21.29	21.39	23	1		
20	QPSK	50	50	21.27	21.48	21.20	21.25				
20	QPSK	100	0	21.31	21.45	21.42	21.36				
20	16QAM	1	0	21.29	21.43	21.43	21.41				
20	16QAM	1	49	21.36	21.55	21.27	21.35	23	1		
20	16QAM	1	99	21.28	21.47	21.36	21.22				
20	16QAM	50	0	20.50	20.48	20.60	20.26				
20	16QAM	50	24	20.46	20.48	20.36	20.34				
20	16QAM	50	50	20.19	20.50	20.25	20.28	22	2		
20	16QAM	100	0	20.39	20.45	20.38	20.31				
20	64QAM	1	0	20.09	20.22	20.10	20.05				
20	64QAM	1	49	20.07	20.25	20.09	20.15				
20	64QAM	1	99	20.02	20.28	20.06	20.00	22	2		
20	64QAM	50	0	19.58	19.46	19.48	19.24				
20	64QAM	50	24	19.54	19.43	19.32	19.28				
20	64QAM	50	50	19.23	19.58	19.16	19.31				
20	64QAM	100	0	19.30	19.42	19.37	19.30	21	3		
Channel				55315	55820	56160	56665				
Frequency (MHz)				3557.5	3603	3642	3692.5				
15	QPSK	1	0	22.24	22.49	22.23	22.26			24	0
15	QPSK	1	37	22.21	22.27	22.29	22.27				
15	QPSK	1	74	22.08	22.38	22.20	22.30				
15	QPSK	36	0	21.42	21.49	21.46	21.23				
15	QPSK	36	20	21.36	21.49	21.11	21.33	23	1		
15	QPSK	36	39	21.16	21.43	21.09	21.10				
15	QPSK	75	0	21.30	21.42	21.29	21.21				
15	16QAM	1	0	21.11	21.23	21.29	21.36				
15	16QAM	1	37	21.15	21.55	21.12	21.21	23	1		
15	16QAM	1	74	21.13	21.26	21.17	21.22				
15	16QAM	36	0	20.37	20.32	20.47	20.13				
15	16QAM	36	20	20.47	20.47	20.38	20.17				
15	16QAM	36	39	20.20	20.32	20.11	20.08	22	2		
15	16QAM	75	0	20.20	20.25	20.27	20.22				
15	64QAM	1	0	20.13	20.23	20.10	20.09				
15	64QAM	1	37	20.06	20.25	20.01	20.22				
15	64QAM	1	74	20.16	20.35	20.08	20.09	22	2		
15	64QAM	36	0	19.49	19.26	19.40	19.22				
15	64QAM	36	20	19.56	19.43	19.32	19.08				
15	64QAM	36	39	19.08	19.54	19.11	19.30				
15	64QAM	75	0	19.13	19.31	19.18	19.14	21	3		
Channel				55290	55815	56185	56690				
Frequency (MHz)				3565	3607.5	3642.5	3695				
10	QPSK	1	0	22.22	22.48	22.30	22.42			24	0
10	QPSK	1	25	22.09	22.38	22.12	22.28				
10	QPSK	1	49	22.17	22.49	22.18	22.26				
10	QPSK	25	0	21.47	21.53	21.49	21.32				
10	QPSK	25	12	21.25	21.45	21.20	21.22	23	1		
10	QPSK	25	25	21.27	21.38	21.12	21.05				
10	QPSK	50	0	21.24	21.25	21.25	21.26				
10	16QAM	1	0	21.30	21.21	21.27	21.35				
10	16QAM	1	25	21.35	21.51	21.11	21.28	23	1		
10	16QAM	1	49	21.30	21.36	21.17	21.22				
10	16QAM	25	0	20.38	20.50	20.38	20.25				
10	16QAM	25	12	20.34	20.40	20.22	20.22				
10	16QAM	25	25	20.10	20.43	20.22	20.15	22	2		
10	16QAM	50	0	20.38	20.27	20.30	20.13				
10	64QAM	1	0	20.15	20.26	20.19	20.05				
10	64QAM	1	25	20.11	20.22	20.16	20.11				
10	64QAM	1	49	20.11	20.28	20.13	20.03	22	2		
10	64QAM	25	0	19.46	19.35	19.46	19.22				
10	64QAM	25	12	19.51	19.43	19.32	19.11				
10	64QAM	25	25	19.10	19.41	19.15	19.33				
10	64QAM	50	0	19.32	19.37	19.30	19.28	21	3		
Channel				55265	55810	56170	56715				
Frequency (MHz)				3562.5	3607	3643	3697.5				
5	QPSK	1	0	22.20	22.50	22.44	22.45			24	0
5	QPSK	1	12	22.23	22.34	22.22	22.31				
5	QPSK	1	24	22.13	22.34	22.28	22.31				
5	QPSK	12	0	21.30	21.35	21.44	21.21				
5	QPSK	12	7	21.28	21.43	21.24	21.24	23	1		
5	QPSK	12	13	21.16	21.28	21.11	21.11				
5	QPSK	25	0	21.12	21.42	21.34	21.21				
5	16QAM	1	0	21.27	21.31	21.35	21.27				
5	16QAM	1	12	21.32	21.49	21.23	21.18	23	1		
5	16QAM	1	24	21.19	21.47	21.20	21.22				
5	16QAM	12	0	20.47	20.34	20.61	20.19				
5	16QAM	12	7	20.28	20.31	20.37	20.21				
5	16QAM	12	13	20.19	20.34	20.18	20.17	22	2		
5	16QAM	25	0	20.18	20.32	20.38	20.26				
5	64QAM	1	0	20.05	20.09	20.01	20.16				
5	64QAM	1	12	20.06	20.11	20.01	20.09				
5	64QAM	1	24	20.04	20.29	20.04	20.01	22	2		
5	64QAM	12	0	19.51	19.26	19.46	19.07				
5	64QAM	12	7	19.54	19.38	19.19	19.28				
5	64QAM	12	13	19.18	19.36	19.07	19.20				
5	64QAM	25	0	19.27	19.41	19.15	19.15	21	3		



Band 41 Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.02	20.20	20.44	20.25	20.34	21.5	0
20	QPSK	1	49	20.03	20.13	20.43	20.04	20.31		
20	QPSK	1	99	20.01	20.11	20.36	20.12	20.34		
20	QPSK	50	0	18.91	19.21	19.36	19.27	19.32	20.5	1
20	QPSK	50	24	19.10	19.20	19.35	19.12	19.31		
20	QPSK	50	50	19.11	19.09	19.31	19.23	19.34		
20	QPSK	100	0	19.08	19.23	19.33	19.29	19.27	20.5	1
20	16QAM	1	0	18.88	18.99	19.31	19.06	19.15		
20	16QAM	1	49	19.02	19.03	19.23	19.03	19.15		
20	16QAM	1	99	18.99	19.09	19.28	19.07	19.15	19.5	2
20	16QAM	50	0	18.11	18.27	18.39	18.10	18.34		
20	16QAM	50	24	18.06	18.30	18.27	18.03	18.23		
20	16QAM	50	50	18.19	18.15	18.33	18.14	18.46	18.5	3
20	16QAM	100	0	18.08	18.32	18.34	18.19	18.30		
20	64QAM	1	0	17.52	17.59	17.84	17.63	17.73		
20	64QAM	1	49	17.57	17.73	17.87	17.54	17.70	19.5	2
20	64QAM	1	99	17.62	17.68	17.82	17.70	17.81		
20	64QAM	50	0	17.14	17.23	17.32	17.05	17.34		
20	64QAM	50	24	17.17	17.38	17.34	17.19	17.32	18.5	3
20	64QAM	50	50	17.27	17.18	17.27	17.08	17.44		
20	64QAM	100	0	17.04	17.38	17.30	17.29	17.27		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.03	20.14	20.41	20.31	20.34	21.5	0
15	QPSK	1	37	20.00	20.06	20.37	19.95	20.30		
15	QPSK	1	74	20.02	20.11	20.38	20.00	20.27		
15	QPSK	36	0	18.82	19.10	19.23	19.19	19.14	20.5	1
15	QPSK	36	20	18.97	19.03	19.28	18.98	19.11		
15	QPSK	36	39	19.11	19.04	19.14	19.03	19.28		
15	QPSK	75	0	18.95	19.16	19.32	19.08	19.09	20.5	1
15	16QAM	1	0	18.84	18.93	19.28	19.01	18.95		
15	16QAM	1	37	19.02	18.97	19.08	18.82	19.16		
15	16QAM	1	74	18.92	19.01	19.20	18.93	18.94	19.5	2
15	16QAM	36	0	18.06	18.25	18.23	17.95	18.16		
15	16QAM	36	20	17.86	18.32	18.28	17.98	18.21		
15	16QAM	36	39	17.99	18.12	18.17	18.02	18.35	18.5	3
15	16QAM	75	0	17.88	18.21	18.20	18.04	18.16		
15	64QAM	1	0	17.58	17.63	17.65	17.68	17.60		
15	64QAM	1	37	17.58	17.63	17.76	17.56	17.67	19.5	2
15	64QAM	1	74	17.50	17.66	17.73	17.69	17.65		
15	64QAM	36	0	17.05	17.07	17.15	17.00	17.21		
15	64QAM	36	20	17.05	17.22	17.21	17.04	17.15	18.5	3
15	64QAM	36	39	17.15	17.16	17.06	16.97	17.15		
15	64QAM	75	0	16.91	17.18	17.10	17.17	17.22		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.01	20.12	20.42	20.39	20.25	21.5	0
10	QPSK	1	25	20.01	20.06	20.35	20.04	20.20		
10	QPSK	1	49	19.96	20.08	20.37	19.92	20.20		
10	QPSK	25	0	18.83	19.20	19.29	19.08	19.18	20.5	1
10	QPSK	25	12	19.02	19.14	19.20	18.99	19.31		
10	QPSK	25	25	19.06	19.91	19.25	19.09	19.19		
10	QPSK	50	0	18.88	19.14	19.19	19.21	19.22	20.5	1
10	16QAM	1	0	18.71	18.90	19.10	18.98	19.10		
10	16QAM	1	25	18.81	18.92	19.18	18.99	19.00		
10	16QAM	1	49	18.96	19.06	19.07	18.88	19.03	19.5	2
10	16QAM	25	0	17.92	18.26	18.39	18.07	18.35		
10	16QAM	25	12	18.03	18.28	18.07	17.92	18.01		
10	16QAM	25	25	18.11	18.12	18.34	18.00	18.35	18.5	3
10	16QAM	50	0	17.92	18.18	18.31	18.07	18.25		
10	64QAM	1	0	17.60	17.68	17.70	17.54	17.52		
10	64QAM	1	25	17.57	17.67	17.85	17.56	17.59	19.5	2
10	64QAM	1	49	17.63	17.67	17.81	17.59	17.65		
10	64QAM	25	0	17.12	17.16	17.20	17.04	17.23		
10	64QAM	25	12	17.06	17.37	17.24	17.15	17.20	18.5	3
10	64QAM	25	25	17.08	17.20	17.11	16.99	17.35		
10	64QAM	50	0	17.06	17.22	17.24	17.30	17.25		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	19.96	20.11	20.35	20.15	20.16	21.5	0
5	QPSK	1	12	19.99	19.91	20.32	19.97	20.26		
5	QPSK	1	24	19.90	19.96	20.31	19.96	20.21		
5	QPSK	12	0	18.87	19.04	19.19	19.13	19.15	20.5	1
5	QPSK	12	7	18.89	19.03	19.29	19.04	19.24		
5	QPSK	12	13	18.93	19.07	19.18	19.16	19.17		
5	QPSK	25	0	19.07	19.13	19.17	19.17	19.12	20.5	1
5	16QAM	1	0	18.84	18.95	19.30	18.96	19.02		
5	16QAM	1	12	18.88	18.89	19.07	18.97	18.94		
5	16QAM	1	24	19.01	19.04	19.09	18.98	19.09	19.5	2
5	16QAM	12	0	18.05	18.25	18.25	18.00	18.19		
5	16QAM	12	7	18.02	18.21	18.29	17.83	18.23		
5	16QAM	12	13	18.08	18.03	18.13	18.07	18.26	18.5	3
5	16QAM	25	0	17.85	18.12	18.32	18.12	18.17		
5	64QAM	1	0	17.50	17.51	17.73	17.52	17.60		
5	64QAM	1	12	17.52	17.51	17.83	17.54	17.58	19.5	2
5	64QAM	1	24	17.56	17.53	17.78	17.62	17.74		
5	64QAM	12	0	17.09	17.04	17.29	16.91	17.23		
5	64QAM	12	7	17.07	17.27	17.13	17.11	17.25	18.5	3
5	64QAM	12	13	17.25	17.06	17.15	16.99	17.35		
5	64QAM	25	0	16.88	17.20	17.17	17.24	17.27		

Band 41 HPUE Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.14	23.22	23.37	23.29	23.34	24.5	0
20	QPSK	1	49	23.04	23.07	23.33	23.22	23.24		
20	QPSK	1	99	22.95	23.29	23.31	23.16	23.21		
20	QPSK	50	0	22.31	22.35	22.52	22.29	22.35	23.5	1
20	QPSK	50	24	22.11	22.09	22.36	22.35	22.37		
20	QPSK	50	50	22.10	22.32	22.43	22.26	22.32		
20	QPSK	100	0	22.12	22.21	22.47	22.24	22.31	23.5	1
20	16QAM	1	0	22.25	22.31	22.55	22.45	22.64		
20	16QAM	1	49	22.22	22.29	22.53	22.39	22.38		
20	16QAM	1	99	22.25	22.31	22.45	22.46	22.53	22.5	2
20	16QAM	50	0	21.26	21.24	21.55	21.39	21.30		
20	16QAM	50	24	21.11	21.06	21.40	21.27	21.33		
20	16QAM	50	50	21.17	21.40	21.32	21.22	21.21	21.5	3
20	16QAM	100	0	21.20	21.19	21.46	21.31	21.30		
20	64QAM	1	0	21.04	21.17	21.30	21.33	21.46		
20	64QAM	1	49	21.07	21.03	21.24	21.33	21.44	22.5	2
20	64QAM	1	99	21.06	21.28	21.27	21.25	21.15		
20	64QAM	50	0	20.39	20.39	20.67	20.27	20.38		
20	64QAM	50	24	20.23	20.39	20.56	20.33	20.43	21.5	3
20	64QAM	50	50	20.27	20.42	20.51	20.35	20.25		
20	64QAM	100	0	20.33	20.21	20.62	20.18	20.38		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.07	23.19	23.29	23.31	23.27	24.5	0
15	QPSK	1	37	23.03</						



ECI2 Power

Band 7 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch./ Freq.	Middle Ch./ Freq.	High Ch./ Freq.		
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	21.54	21.66	21.25	22.5	0
20	QPSK	1	49	21.47	21.60	21.17		
20	QPSK	1	99	21.42	21.60	21.17		
20	QPSK	50	0	21.52	21.64	21.24	22.5	0
20	QPSK	50	24	21.45	21.60	21.20		
20	QPSK	50	50	21.40	21.62	21.20		
20	QPSK	100	0	21.52	21.61	21.23	22.5	0
20	16QAM	1	0	21.45	21.62	21.21		
20	16QAM	1	49	21.42	21.58	21.18		
20	16QAM	1	99	21.48	21.61	21.17	21.5	1
20	16QAM	50	0	20.54	20.65	20.23		
20	16QAM	50	24	20.46	20.63	20.17		
20	16QAM	50	50	20.43	20.59	20.21	21.5	1
20	16QAM	100	0	20.52	20.63	20.26		
20	64QAM	1	0	20.46	20.64	20.21		
20	64QAM	1	49	20.41	20.60	20.18	21.5	1
20	64QAM	1	99	20.46	20.63	20.21		
20	64QAM	50	0	19.52	19.61	19.23		
20	64QAM	50	24	19.46	19.62	19.21	20.5	2
20	64QAM	50	50	19.41	19.62	19.19		
20	64QAM	100	0	19.43	19.61	19.17		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	21.43	21.56	21.11	22.5	0
15	QPSK	1	37	21.35	21.46	21.06		
15	QPSK	1	74	21.28	21.47	21.09		
15	QPSK	36	0	21.43	21.51	21.11	22.5	0
15	QPSK	36	20	21.37	21.48	21.11		
15	QPSK	36	39	21.29	21.53	21.08		
15	QPSK	75	0	21.42	21.50	21.14	22.5	0
15	16QAM	1	0	21.32	21.54	21.30		
15	16QAM	1	37	21.34	21.46	21.34		
15	16QAM	1	74	21.34	21.50	21.34	21.5	1
15	16QAM	36	0	20.44	20.54	20.15		
15	16QAM	36	20	20.33	20.51	20.04		
15	16QAM	36	39	20.29	20.48	20.12	21.5	1
15	16QAM	75	0	20.41	20.51	20.18		
15	64QAM	1	0	20.38	20.55	20.11		
15	64QAM	1	37	20.33	20.52	20.05	21.5	1
15	64QAM	1	74	20.38	20.54	20.09		
15	64QAM	36	0	19.41	19.52	19.14		
15	64QAM	36	20	19.37	19.50	19.09	20.5	2
15	64QAM	36	39	19.31	19.48	19.05		
15	64QAM	75	0	19.34	19.52	19.07		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	21.42	21.57	21.35	22.5	0
10	QPSK	1	25	21.33	21.47	21.39		
10	QPSK	1	49	21.34	21.49	21.34		
10	QPSK	25	0	21.42	21.56	21.15	22.5	0
10	QPSK	25	12	21.31	21.48	21.08		
10	QPSK	25	25	21.32	21.53	21.09		
10	QPSK	50	0	21.38	21.48	21.15	22.5	0
10	16QAM	1	0	21.35	21.52	21.10		
10	16QAM	1	25	21.34	21.46	21.08		
10	16QAM	1	49	21.35	21.47	21.03	21.5	1
10	16QAM	25	0	20.45	20.56	20.15		
10	16QAM	25	12	20.33	20.49	20.08		
10	16QAM	25	25	20.32	20.48	20.08	21.5	1
10	16QAM	50	0	20.43	20.50	20.15		
10	64QAM	1	0	20.37	20.51	20.09		
10	64QAM	1	25	20.33	20.47	20.05	21.5	1
10	64QAM	1	49	20.34	20.51	20.13		
10	64QAM	25	0	19.40	19.53	19.15		
10	64QAM	25	12	19.36	19.48	19.10	20.5	2
10	64QAM	25	25	19.30	19.51	19.09		
10	64QAM	50	0	19.31	19.48	19.03		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	21.42	21.58	21.14	22.5	0
5	QPSK	1	12	21.38	21.51	21.46		
5	QPSK	1	24	21.30	21.46	21.45		
5	QPSK	12	0	21.38	21.51	21.15	22.5	0
5	QPSK	12	7	21.36	21.52	21.12		
5	QPSK	12	13	21.32	21.50	21.06		
5	QPSK	25	0	21.38	21.48	21.14	22.5	0
5	16QAM	1	0	21.37	21.50	21.08		
5	16QAM	1	12	21.29	21.49	21.08		
5	16QAM	1	24	21.40	21.53	21.05	21.5	1
5	16QAM	12	0	20.42	20.52	20.11		
5	16QAM	12	7	20.33	20.51	20.08		
5	16QAM	12	13	20.34	20.48	20.08	21.5	1
5	16QAM	25	0	20.38	20.54	20.14		
5	64QAM	1	0	20.33	20.56	20.13		
5	64QAM	1	12	20.27	20.48	20.08	21.5	1
5	64QAM	1	24	20.36	20.54	20.13		
5	64QAM	12	0	19.40	19.51	19.10		
5	64QAM	12	7	19.37	19.54	19.09	20.5	2
5	64QAM	12	13	19.33	19.51	19.06		
5	64QAM	25	0	19.32	19.48	19.06		



Band 38 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Tune-up [dBm]	MFR [dB]	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.32	22.32	22.32	24	0	
20	QPSK	1	48	22.30	22.34	22.34			
20	QPSK	1	96	22.28	22.36	22.36			
20	QPSK	50	0	21.32	21.34	21.37	23	1	
20	QPSK	50	24	21.43	21.49	21.50			
20	QPSK	50	48	21.53	21.61	21.64			
20	QPSK	100	0	21.38	21.49	21.54	23	1	
20	QPSK	100	24	21.41	21.48	21.52			
20	QPSK	100	48	21.53	21.61	21.64			
20	QPSK	100	72	21.61	21.69	21.72			
20	QPSK	100	96	21.71	21.78	21.80			
20	QPSK	50	24	20.21	20.24	20.26	22	2	
20	QPSK	50	48	20.34	20.39	20.41			
20	QPSK	50	72	20.50	20.59	20.58			
20	QPSK	50	96	20.65	20.69	20.69			
20	QPSK	100	0	20.37	20.52	20.47	22	2	
20	QPSK	100	24	20.37	20.47	20.52			
20	QPSK	100	48	20.37	20.47	20.52			
20	QPSK	100	72	20.35	20.52	20.48			
20	QPSK	100	96	20.18	20.48	20.35			
20	QPSK	50	24	19.46	19.49	19.46	21	3	
20	QPSK	50	48	19.36	19.32	19.29			
20	QPSK	100	0	19.31	19.46	19.43			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.23	22.34	22.36	24	0	
15	QPSK	1	48	22.24	22.28	22.28			
15	QPSK	1	96	22.08	22.29	22.18			
15	QPSK	38	0	21.33	21.55	21.54	23	1	
15	QPSK	38	39	21.33	21.55	21.54			
15	QPSK	38	78	21.31	21.20	21.23			
15	QPSK	75	0	21.22	21.46	21.29	23	1	
15	QPSK	75	39	21.22	21.46	21.29			
15	QPSK	75	78	21.22	21.46	21.29			
15	QPSK	38	20	20.46	20.24	20.37	22	2	
15	QPSK	38	59	20.34	20.29	20.31			
15	QPSK	75	0	20.17	20.31	20.25	21	3	
15	QPSK	75	39	20.17	20.31	20.25			
15	QPSK	75	78	20.17	20.31	20.25			
15	QPSK	38	20	19.12	19.47	19.16			
15	QPSK	38	59	19.34	19.28	19.34			
15	QPSK	38	98	19.31	19.14	19.26			
15	QPSK	75	0	19.16	19.30	19.31			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.11	22.32	22.32	24	0	
10	QPSK	1	25	22.17	22.21	22.26			
10	QPSK	1	49	22.25	22.12	22.13			
10	QPSK	25	0	21.35	21.40	21.38	23	1	
10	QPSK	25	12	21.29	21.45	21.38			
10	QPSK	25	25	21.31	21.28	21.24			
10	QPSK	50	0	21.35	21.25	21.24	23	1	
10	QPSK	50	12	21.29	21.45	21.38			
10	QPSK	50	25	21.31	21.28	21.24			
10	QPSK	100	0	21.19	21.31	21.26	23	1	
10	QPSK	100	12	21.18	21.24	21.10			
10	QPSK	100	25	21.11	21.21	21.20			
10	QPSK	25	12	20.51	20.49	20.49	22	2	
10	QPSK	25	25	20.21	20.11	20.17			
10	QPSK	50	0	20.16	20.46	20.26	22	2	
10	QPSK	50	12	20.27	20.47	20.50			
10	QPSK	50	25	20.27	20.47	20.50			
10	QPSK	100	0	19.16	19.27	19.16	21	3	
10	QPSK	100	12	19.32	19.30	19.31			
10	QPSK	100	25	19.17	19.18	19.23			
10	QPSK	100	38	19.31	19.41	19.43			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.14	22.33	22.33	24	0	
5	QPSK	1	12	22.30	22.15	22.30			
5	QPSK	1	24	22.24	22.12	22.07			
5	QPSK	12	0	21.22	21.40	21.19	23	1	
5	QPSK	12	7	21.43	21.47	21.49			
5	QPSK	12	13	21.52	21.31	21.38			
5	QPSK	25	0	21.30	21.48	21.40	23	1	
5	QPSK	25	1	21.19	21.50	21.00			
5	QPSK	12	13	21.18	21.20	21.22	22	2	
5	QPSK	12	24	21.21	21.24	21.18			
5	QPSK	12	0	20.11	20.51	20.11	21	3	
5	QPSK	12	7	20.45	20.29	20.29			
5	QPSK	12	13	20.22	20.27	20.14			
5	QPSK	25	0	20.15	20.46	20.26	21	3	
5	QPSK	25	1	20.49	20.29	20.24			
5	QPSK	25	12	20.42	20.25	20.23			
5	QPSK	12	24	20.51	20.40	20.46			
5	QPSK	12	0	19.09	19.30	19.04			
5	QPSK	12	7	19.46	19.38	19.42			
5	QPSK	12	13	19.22	19.13	19.09			
5	QPSK	25	0	19.10	19.40	19.45			

Band 41 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Tune-up [dBm]	MFR [dB]	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.41	22.43	22.43	24	0	
20	QPSK	1	48	22.25	22.38	22.37			
20	QPSK	1	96	22.29	22.42	22.54			
20	QPSK	50	0	21.42	21.45	21.54	23	1	
20	QPSK	50	24	21.32	21.36	21.47			
20	QPSK	50	48	21.18	21.34	21.61			
20	QPSK	100	0	21.35	21.56	21.58	23	1	
20	QPSK	100	24	21.40	21.50	21.62			
20	QPSK	100	48	21.68	21.42	21.54			
20	QPSK	100	72	21.34	21.48	21.54			
20	QPSK	50	24	20.38	20.39	20.61	22	2	
20	QPSK	50	48	20.38	20.34	20.41			
20	QPSK	50	72	20.12	20.26	20.62			
20	QPSK	100	0	20.44	20.45	20.55	22	2	
20	QPSK	100	24	20.37	20.40	20.55			
20	QPSK	100	48	20.19	20.36	20.63			
20	QPSK	100	72	20.33	20.42	20.48			
20	QPSK	50	24	19.31	19.44	19.56	21	3	
20	QPSK	50	48	19.35	19.36	19.30			
20	QPSK	50	72	19.19	19.34	19.50			
20	QPSK	100	0	19.42	19.46	19.41			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.40	22.50	22.50	24	0	
15	QPSK	1	37	22.19	22.31	22.58			
15	QPSK	1	74	22.25	22.44	22.46			
15	QPSK	38	0	21.47	21.45	21.85	23	1	
15	QPSK	38	20	21.37	21.36	21.60			
15	QPSK	38	39	21.18	21.38	21.56			
15	QPSK	75	0	21.30	21.56	21.54	23	1	
15	QPSK	75	39	21.38	21.46	21.61			
15	QPSK	75	78	21.28	21.45	21.49			
15	QPSK	100	0	21.39	21.44	21.54	23	1	
15	QPSK	100	39	21.39	21.32	20.56			
15	QPSK	100	78	20.34	20.28	20.33	22	2	
15	QPSK	100	117	20.34	20.29	20.31			
15	QPSK	75	0	20.43	20.40	20.59	21	3	
15	QPSK	75	39	20.43	20.35	20.58			
15	QPSK	75	78	20.22	20.44	20.43			
15	QPSK	36	0	19.38	19.48	19.51	21	3	
15	QPSK	36	20	19.29	19.32	19.31			
15	QPSK	36	39	19.16	19.34	19.53			
15	QPSK	75	0	19.35	19.39	19.50	21	3	
15	QPSK	75	39	19.35	19.39	19.50			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.39	22.39	22.54	24	0	
10	QPSK	1	25	22.16	22.32	22.51			
10	QPSK	1	49	22.30	22.45	22.47			
10	QPSK	25	0	21.37	21.42	21.69	23	1	
10	QPSK	25	12	21.24	21.37	21.49			
10	QPSK	25	25	21.30	21.26	21.60			
10	QPSK	50	0	21.36	21.55	21			



Band 2 Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.44	15.71	15.87	16.5	0		
20	QPSK	1	49	15.29	15.69	15.39				
20	QPSK	1	99	15.40	15.58	15.66				
20	QPSK	50	0	15.46	15.72	15.60				
20	QPSK	50	24	15.44	15.68	15.35	16.5	0		
20	QPSK	50	50	15.40	15.62	15.67				
20	QPSK	100	0	15.43	15.62	15.54				
20	16QAM	1	0	15.57	15.66	15.58				
20	16QAM	1	49	15.54	15.71	15.49	16.5	0		
20	16QAM	1	99	15.55	15.75	15.82				
20	16QAM	50	0	15.64	15.69	15.61				
20	16QAM	50	24	15.63	15.65	15.60	16.5	0		
20	16QAM	50	50	15.61	15.71	15.61				
20	16QAM	100	0	15.57	15.76	15.73				
20	64QAM	1	0	15.44	15.61	15.55				
20	64QAM	1	49	15.32	15.71	15.33	16.5	0		
20	64QAM	1	99	15.32	15.76	15.52				
20	64QAM	50	0	15.62	15.64	15.58				
20	64QAM	50	24	15.64	15.67	15.62	16.5	0		
20	64QAM	50	50	15.64	15.67	15.65				
20	64QAM	100	0	15.58	15.69	15.64				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.44	15.71	15.47	16.5	0		
15	QPSK	1	37	15.24	15.58	15.25				
15	QPSK	1	74	15.37	15.54	15.52				
15	QPSK	36	0	15.39	15.63	15.44				
15	QPSK	36	20	15.32	15.59	15.25	16.5	0		
15	QPSK	36	39	15.27	15.50	15.55				
15	QPSK	75	0	15.36	15.56	15.40				
15	16QAM	1	0	15.45	15.76	15.69				
15	16QAM	1	37	15.52	15.66	15.41	16.5	0		
15	16QAM	1	74	15.40	15.72	15.53				
15	16QAM	36	0	15.59	15.63	15.60				
15	16QAM	36	20	15.39	15.63	15.41	16.5	0		
15	16QAM	36	39	15.53	15.57	15.65				
15	16QAM	75	0	15.47	15.63	15.60				
15	64QAM	1	0	15.38	15.76	15.41				
15	64QAM	1	37	15.38	15.63	15.46	16.5	0		
15	64QAM	1	74	15.33	15.71	15.48				
15	64QAM	36	0	15.59	15.62	15.53				
15	64QAM	36	20	15.52	15.72	15.56	16.5	0		
15	64QAM	36	39	15.59	15.63	15.62				
15	64QAM	75	0	15.54	15.73	15.58				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.37	15.69	15.48	16.5	0		
10	QPSK	1	25	15.39	15.63	15.33				
10	QPSK	1	49	15.29	15.50	15.60				
10	QPSK	25	0	15.33	15.59	15.49				
10	QPSK	25	12	15.34	15.65	15.28	16.5	0		
10	QPSK	25	25	15.27	15.53	15.58				
10	QPSK	50	0	15.28	15.45	15.46				
10	16QAM	1	0	15.41	15.68	15.64	16.5	0		
10	16QAM	1	25	15.38	15.59	15.41				
10	16QAM	1	49	15.46	15.68	15.50				
10	16QAM	25	0	15.62	15.71	15.70	16.5	0		
10	16QAM	25	12	15.53	15.67	15.44				
10	16QAM	25	25	15.53	15.61	15.72				
10	16QAM	50	0	15.42	15.62	15.60				
10	64QAM	1	0	15.39	15.69	15.42	16.5	0		
10	64QAM	1	25	15.29	15.62	15.38				
10	64QAM	1	49	15.20	15.62	15.37				
10	64QAM	25	0	15.47	15.67	15.72	16.5	0		
10	64QAM	25	12	15.57	15.69	15.54				
10	64QAM	25	25	15.67	15.68	15.62				
10	64QAM	50	0	15.49	15.65	15.60				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.43	15.70	15.58	16.5	0		
5	QPSK	1	12	15.40	15.62	15.30				
5	QPSK	1	24	15.43	15.51	15.56				
5	QPSK	12	0	15.36	15.66	15.49	16.5	0		
5	QPSK	12	7	15.33	15.61	15.29				
5	QPSK	12	13	15.27	15.46	15.52				
5	QPSK	25	0	15.29	15.53	15.41				
5	16QAM	1	0	15.45	15.76	15.71	16.5	0		
5	16QAM	1	12	15.47	15.62	15.38				
5	16QAM	1	24	15.42	15.67	15.49				
5	16QAM	12	0	15.71	15.74	15.74	16.5	0		
5	16QAM	12	7	15.48	15.66	15.51				
5	16QAM	12	13	15.52	15.61	15.75				
5	16QAM	25	0	15.43	15.67	15.62	16.5	0		
5	64QAM	1	0	15.29	15.65	15.51				
5	64QAM	1	12	15.27	15.56	15.26				
5	64QAM	1	24	15.21	15.61	15.44	16.5	0		
5	64QAM	12	0	15.52	15.61	15.53				
5	64QAM	12	7	15.39	15.73	15.48	16.5	0		
5	64QAM	12	13	15.59	15.63	15.63				
5	64QAM	25	0	15.48	15.63	15.50				
Channel										
Frequency (MHz)										
3	QPSK	1	0	15.37	15.70	15.51	16.5	0		
3	QPSK	1	8	15.38	15.55	15.25				
3	QPSK	1	14	15.29	15.49	15.55				
3	QPSK	8	0	15.32	15.68	15.52	16.5	0		
3	QPSK	8	4	15.29	15.62	15.20				
3	QPSK	8	7	15.28	15.52	15.61				
3	QPSK	15	0	15.33	15.54	15.39				
3	16QAM	1	0	15.52	15.70	15.65	16.5	0		
3	16QAM	1	8	15.43	15.62	15.44				
3	16QAM	1	14	15.47	15.65	15.58				
3	16QAM	8	0	15.59	15.74	15.65	16.5	0		
3	16QAM	8	4	15.53	15.70	15.49				
3	16QAM	8	7	15.54	15.62	15.65				
3	16QAM	15	0	15.51	15.71	15.60				
3	64QAM	1	0	15.31	15.74	15.43	16.5	0		
3	64QAM	1	8	15.38	15.63	15.42				
3	64QAM	1	14	15.39	15.63	15.38				
3	64QAM	8	0	15.46	15.67	15.73	16.5	0		
3	64QAM	8	4	15.52	15.70	15.45				
3	64QAM	8	7	15.68	15.67	15.49				
3	64QAM	15	0	15.54	15.73	15.65				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	15.36	15.69	15.49	16.5	0		
1.4	QPSK	1	3	15.19	15.64	15.27				
1.4	QPSK	1	5	15.25	15.51	15.53				
1.4	QPSK	3	0	15.32	15.67	15.48	16.5	0		
1.4	QPSK	3	1	15.33	15.65	15.21				
1.4	QPSK	3	3	15.31	15.59	15.64				
1.4	QPSK	6	0	15.38	15.48	15.47	16.5	0		
1.4	16QAM	1	0	15.47	15.75	15.62				
1.4	16QAM	1	3	15.39	15.64	15.41	16.5	0		
1.4	16QAM	1	5	15.43	15.73	15.53				
1.4	16QAM	3	0	15.68	15.66	15.65				
1.4	16QAM	3	1	15.53	15.66	15.51	16.5	0		
1.4	16QAM	3	3	15.53	15.65	15.75				
1.4	16QAM	6	0	15.51	15.67	15.63	16.5	0		
1.4	64QAM	1	0	15.28	15.67	15.50				
1.4	64QAM	1	3	15.26	15.57	15.27				
1.4	64QAM	1	5	15.27	15.84	15.39	16.5	0		
1.4	64QAM	3	0	15.46	15.66	15.56				
1.4	64QAM	3	1	15.51	15.63	15.52				
1.4	64QAM	3	3	15.61	15.64	15.65	16.5	0		
1.4	64QAM	6	0	15.44	15.66	15.57				

Band 4 Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.84	15.85	15.74	17	0		



Band 7 ENDC Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2310	2335	2350		
20	QPSK	1	0	12.62	12.68	12.61		
20	QPSK	1	49	12.45	12.60	12.59	13	0
20	QPSK	1	99	12.55	12.64	12.62		
20	QPSK	50	0	12.55	12.56	12.51		
20	QPSK	50	24	12.45	12.54	12.47	13	0
20	QPSK	50	50	12.45	12.47	12.36		
20	QPSK	100	0	12.60	12.65	12.63		
20	16QAM	1	0	12.56	12.57	12.52		
20	16QAM	1	49	12.39	12.40	12.38	13	0
20	16QAM	1	99	12.44	12.53	12.38		
20	16QAM	50	0	12.61	12.62	12.44		
20	16QAM	50	24	12.41	12.61	12.48	13	0
20	16QAM	50	50	12.42	12.53	12.38		
20	16QAM	100	0	12.59	12.61	12.55		
20	16QAM	1	0	12.61	12.55	12.50		
20	16QAM	1	49	12.32	12.56	12.37	13	0
20	16QAM	1	99	12.48	12.50	12.36		
20	16QAM	50	0	12.47	12.57	12.48		
20	16QAM	50	24	12.50	12.62	12.42	13	0
20	16QAM	50	50	12.39	12.50	12.37		
20	16QAM	100	0	12.53	12.60	12.59		
Channel								
Frequency (MHz)				2082.5	21100	21375	Tune-up limit (dBm)	MPR (dB)
				2507.5	2535	2562.5		
15	QPSK	1	0	12.48	12.64	12.48		
15	QPSK	1	37	12.39	12.43	12.53	13	0
15	QPSK	1	74	12.45	12.47	12.40		
15	QPSK	36	0	12.40	12.46	12.46		
15	QPSK	36	20	12.33	12.45	12.44	13	0
15	QPSK	36	39	12.38	12.37	12.31		
15	QPSK	75	0	12.57	12.56	12.57		
15	16QAM	1	0	12.45	12.45	12.46		
15	16QAM	1	37	12.34	12.33	12.33	13	0
15	16QAM	1	74	12.38	12.47	12.31		
15	16QAM	36	0	12.57	12.51	12.29		
15	16QAM	36	20	12.32	12.52	12.44	13	0
15	16QAM	36	39	12.34	12.41	12.31		
15	16QAM	75	0	12.51	12.53	12.44		
15	16QAM	1	0	12.49	12.50	12.39		
15	16QAM	1	37	12.26	12.49	12.28	13	0
15	16QAM	1	74	12.34	12.46	12.24		
15	16QAM	36	0	12.42	12.43	12.40		
15	16QAM	36	20	12.45	12.49	12.29	13	0
15	16QAM	36	39	12.24	12.46	12.25		
15	16QAM	75	0	12.47	12.57	12.42		
Channel								
Frequency (MHz)				2082.5	21100	21400	Tune-up limit (dBm)	MPR (dB)
				2505	2535	2565		
10	QPSK	1	0	12.58	12.63	12.48		
10	QPSK	1	25	12.36	12.54	12.45	13	0
10	QPSK	1	49	12.46	12.55	12.46		
10	QPSK	25	0	12.40	12.41	12.41		
10	QPSK	25	12	12.30	12.49	12.31	13	0
10	QPSK	25	25	12.34	12.37	12.19		
10	QPSK	50	0	12.54	12.60	12.50		
10	16QAM	1	0	12.48	12.53	12.41		
10	16QAM	1	25	12.29	12.23	12.24	13	0
10	16QAM	1	49	12.38	12.45	12.30		
10	16QAM	25	0	12.48	12.49	12.36		
10	16QAM	25	12	12.27	12.45	12.36	13	0
10	16QAM	25	25	12.27	12.49	12.31		
10	16QAM	50	0	12.55	12.49	12.48		
10	16QAM	1	0	12.56	12.50	12.41		
10	16QAM	1	25	12.22	12.48	12.22	13	0
10	16QAM	1	49	12.37	12.40	12.21		
10	16QAM	25	0	12.31	12.45	12.36		
10	16QAM	25	12	12.39	12.52	12.32	13	0
10	16QAM	25	25	12.25	12.40	12.22		
10	16QAM	50	0	12.44	12.53	12.49		
Channel								
Frequency (MHz)				2077.5	21100	21425	Tune-up limit (dBm)	MPR (dB)
				2502.5	2535	2567.5		
5	QPSK	1	0	12.58	12.62	12.49		
5	QPSK	1	12	12.34	12.47	12.44	13	0
5	QPSK	1	24	12.47	12.59	12.46		
5	QPSK	12	0	12.43	12.44	12.37		
5	QPSK	12	7	12.35	12.38	12.42	13	0
5	QPSK	12	13	12.34	12.40	12.26		
5	QPSK	25	0	12.45	12.62	12.56		
5	16QAM	1	0	12.51	12.47	12.35		
5	16QAM	1	12	12.27	12.33	12.29	13	0
5	16QAM	1	24	12.36	12.41	12.30		
5	16QAM	12	0	12.54	12.49	12.40		
5	16QAM	12	7	12.30	12.56	12.40	13	0
5	16QAM	12	13	12.31	12.49	12.25		
5	16QAM	25	0	12.55	12.54	12.49		
5	16QAM	1	0	12.54	12.46	12.37		
5	16QAM	1	12	12.23	12.47	12.24	13	0
5	16QAM	1	24	12.43	12.38	12.33		
5	16QAM	12	0	12.31	12.43	12.39		
5	16QAM	12	7	12.45	12.49	12.37	13	0
5	16QAM	12	13	12.26	12.41	12.31		
5	16QAM	25	0	12.39	12.58	12.50		

Band 13 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				23230				
10	QPSK	1	0	20.20	20.20	20.20		
10	QPSK	1	25	20.23	20.23	20.23	21	0
10	QPSK	1	49	20.21	20.21	20.21		
10	QPSK	25	0	20.14	20.14	20.14		
10	QPSK	25	12	20.11	20.11	20.11	21	0
10	QPSK	25	25	20.12	20.12	20.12		
10	QPSK	50	0	20.22	20.22	20.22		
10	16QAM	1	0	20.23	20.23	20.23		
10	16QAM	1	25	20.19	20.19	20.19	21	0
10	16QAM	1	49	20.18	20.18	20.18		
10	16QAM	25	0	20.11	20.11	20.11		
10	16QAM	25	12	20.08	20.08	20.08	21	0
10	16QAM	25	25	20.05	20.05	20.05		
10	16QAM	50	0	20.28	20.28	20.28		
10	16QAM	1	0	20.28	20.28	20.28		
10	16QAM	1	25	20.22	20.22	20.22	21	0
10	16QAM	1	49	20.21	20.21	20.21		
10	16QAM	25	0	19.11	19.11	19.11		
10	16QAM	25	12	18.95	18.95	18.95	20	1
10	16QAM	25	25	19.15	19.15	19.15		
10	16QAM	50	0	19.29	19.29	19.29		
Channel								
Frequency (MHz)				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
				779.5	782	784.5		
5	QPSK	1	0	20.16	20.22	20.20		
5	QPSK	1	12	20.12	20.13	20.24	21	0
5	QPSK	1	24	20.12	20.06	20.08		
5	QPSK	12	0	19.88	20.00	19.94		
5	QPSK	12	7	19.94	20.05	19.95	21	0
5	QPSK	12	13	19.98	19.98	19.93		
5	QPSK	25	0	20.16	20.19	20.14		
5	16QAM	1	0	20.15	20.21	20.12		
5	16QAM	1	12	20.18	20.09	20.15	21	0
5	16QAM	1	24	20.09	20.02	20.06		
5	16QAM	12	0	20.08	19.92	20.11		
5	16QAM	12	7	19.95	19.96	19.99	21	0
5	16QAM	12	13	20.07	19.93	19.93		
5	16QAM	25	0	20.12	20.14	20.10		
5	16QAM	1	0	20.04	20.25	20.02		
5	16QAM	1	12	19.97	20.02	20.00	21	0
5	16QAM	1	24	19.88	20.14	20.04		
5	16QAM	12	0	19.00	18.89	19.16		
5	16QAM	12	7	18.88	18.88	18.95	20	1
5	16QAM	12	13	19.01	18.95	19.00		
5	16QAM	25	0	19.29	19.26	19.31		

Band 25 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				26140	26340	26590		
20	QPSK	1	0	15.70	15.70	15.73		
20	QPSK	1	49	15.40	15.70	15.83	16.5	0
20	QPSK	1	99	15.45	15.73	15.83		
20	QPSK	50	0	15.51	15.73	15.71		
20	QPSK	50	24	15				



Band 26 Ant4 for FCC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26765	26865	26965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	20.21	20.40	20.24	21	0	
15	QPSK	1	37	20.20	20.35	20.22			
15	QPSK	1	74	20.10	20.34	20.18			
15	QPSK	36	0	20.09	20.26	20.19	21	0	
15	QPSK	36	20	20.12	20.24	20.19			
15	QPSK	36	39	20.17	20.24	20.10			
15	QPSK	75	0	20.08	20.34	20.15			
15	16QAM	1	0	20.39	20.38	20.11	21	0	
15	16QAM	1	37	20.34	20.34	20.13			
15	16QAM	1	74	20.02	20.35	20.20			
15	16QAM	36	0	20.15	20.22	20.10	21	0	
15	16QAM	36	20	20.11	20.17	20.14			
15	16QAM	36	39	20.11	20.18	20.14			
15	16QAM	75	0	20.21	20.29	20.18			
15	64QAM	1	0	20.25	20.39	20.22	21	0	
15	64QAM	1	37	20.30	20.34	20.27			
15	64QAM	1	74	20.14	20.22	20.03			
15	64QAM	36	0	19.23	19.27	19.21	20	1	
15	64QAM	36	20	19.13	19.14	19.18			
15	64QAM	36	39	19.22	19.24	19.12			
15	64QAM	75	0	19.18	19.29	19.12			
Channel				26740	26865	26990			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	20.16	20.35	20.19	21	0	
10	QPSK	1	25	20.06	20.22	20.12			
10	QPSK	1	49	19.94	20.21	20.08			
10	QPSK	25	0	20.03	20.17	20.14	21	0	
10	QPSK	25	12	19.99	20.17	20.07			
10	QPSK	25	25	20.01	20.20	20.02			
10	QPSK	50	0	20.00	20.29	19.99			
10	16QAM	1	0	20.35	20.30	20.05	21	0	
10	16QAM	1	25	20.26	20.24	20.10			
10	16QAM	1	49	19.97	20.35	20.16			
10	16QAM	25	0	20.13	20.01	20.06	21	0	
10	16QAM	25	12	20.06	20.10	19.94			
10	16QAM	25	25	20.11	20.10	19.93			
10	16QAM	50	0	20.09	20.16	20.07			
10	64QAM	1	0	20.23	20.19	20.21	21	0	
10	64QAM	1	25	20.28	20.17	20.26			
10	64QAM	1	49	19.96	20.06	20.00			
10	64QAM	25	0	19.21	19.17	19.00	20	1	
10	64QAM	25	12	19.08	19.13	19.12			
10	64QAM	25	25	19.06	19.21	19.95			
10	64QAM	50	0	19.12	19.16	19.13			
Channel				26715	26865	27015			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	20.16	20.36	20.09	21	0	
5	QPSK	1	12	20.03	20.27	20.14			
5	QPSK	1	24	19.96	20.20	20.12			
5	QPSK	12	0	19.94	20.16	20.10	21	0	
5	QPSK	12	7	19.98	20.10	20.12			
5	QPSK	12	13	20.06	20.13	20.04			
5	QPSK	25	0	20.05	20.20	20.11	21	0	
5	16QAM	1	0	20.23	20.24	19.97			
5	16QAM	1	12	20.22	20.19	20.07	21	0	
5	16QAM	1	24	19.97	20.28	20.15			
5	16QAM	12	0	20.15	20.14	20.03	21	0	
5	16QAM	12	7	20.09	19.97	20.12			
5	16QAM	12	13	20.03	20.10	19.99			
5	16QAM	25	0	20.06	20.07	20.01	21	0	
5	64QAM	1	0	20.17	20.36	20.10	21	0	
5	64QAM	1	12	20.24	20.12	20.28			
5	64QAM	1	24	20.11	20.16	19.93			
5	64QAM	12	0	19.02	19.21	19.21	20	1	
5	64QAM	12	7	18.96	19.05	19.02			
5	64QAM	12	13	19.07	19.10	19.07			
5	64QAM	25	0	19.03	19.08	18.90			
Channel				26705	26865	27025			
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	20.09	20.35	20.18	21	0	
3	QPSK	1	8	20.03	20.28	20.06			
3	QPSK	1	14	20.03	20.23	20.06			
3	QPSK	8	0	20.03	20.18	20.08	21	0	
3	QPSK	8	4	20.02	20.12	20.16			
3	QPSK	8	7	20.09	20.18	19.95			
3	QPSK	15	0	19.94	20.26	20.09	21	0	
3	16QAM	1	0	20.34	20.28	20.08			
3	16QAM	1	8	20.27	20.25	20.03	21	0	
3	16QAM	1	14	19.96	20.28	20.05			
3	16QAM	8	0	20.01	20.09	20.00	21	0	
3	16QAM	8	4	19.92	19.95	19.96			
3	16QAM	8	7	19.92	20.11	20.05			
3	16QAM	15	0	20.07	20.14	20.15	21	0	
3	64QAM	1	0	20.19	20.32	20.16			
3	64QAM	1	8	20.14	20.19	20.14	21	0	
3	64QAM	1	14	20.11	20.08	19.98			
3	64QAM	8	0	19.05	19.25	19.04	20	1	
3	64QAM	8	4	19.12	19.00	19.06			
3	64QAM	8	7	19.05	19.07	19.11			
3	64QAM	15	0	19.00	19.30	18.92			
Channel				26697	26865	27033			
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	20.09	20.33	20.18	21	0	
1.4	QPSK	1	3	20.05	20.28	20.07			
1.4	QPSK	1	5	19.98	20.17	20.14			
1.4	QPSK	3	0	20.06	20.25	20.16	21	0	
1.4	QPSK	3	1	20.03	20.25	20.11			
1.4	QPSK	3	3	19.94	20.26	20.06			
1.4	QPSK	6	0	20.02	20.15	20.09	21	0	
1.4	16QAM	1	0	20.03	20.08	20.08	21	0	
1.4	16QAM	1	3	20.07	20.13	20.00			
1.4	16QAM	1	5	20.01	20.23	20.03			
1.4	16QAM	3	0	20.28	20.33	20.00			
1.4	16QAM	3	1	20.18	20.20	20.08			
1.4	16QAM	3	3	19.99	20.31	20.03	21	0	
1.4	16QAM	6	0	19.99	20.11	19.91			
1.4	64QAM	1	0	20.05	19.92	20.03	21	0	
1.4	64QAM	1	3	20.05	19.95	19.95			
1.4	64QAM	1	5	19.91	20.09	19.97			
1.4	64QAM	3	0	20.04	20.22	20.11	21	0	
1.4	64QAM	3	1	20.10	20.12	20.09			
1.4	64QAM	3	3	19.96	20.11	19.95			
1.4	64QAM	6	0	18.94	19.13	19.09	20	1	

Band 30 ENDC Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
10	QPSK	1	0		13.88		14.5	0	
10	QPSK	1	25		13.87				
10	QPSK	1	49		13.92				
10	QPSK	25	0		13.97		14.5	0	
10	QPSK	25	12		13.92				
10	QPSK	25	25		13.94				
10	QPSK	50	0		13.95				
10	16QAM	1	0		13.88		14.5	0	
10	16QAM	1	25		13.85				
10	16QAM	1	49		13.91				
10	16QAM	25	0		13.88		14.5	0	
10	16QAM	25	12		13.93				
10	16QAM	25	25		13.87				
10	16QAM	50	0		13.96				
10	64QAM	1	0		13.93		14.5	0	
10	64QAM	1	25		13.96				
10	64QAM	1	49		13.91				
10	64QAM	25	0		13.96		14.5	0	
10	64QAM	25	12		13.91				
10	64QAM	25	25		13.94				
10	64QAM	50	0		13.92				
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	13.73	13.84	13.82	14.5	0	



Band 66 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				16.02	16.11	16.00			
20	QPSK	1	0	15.88	16.06	15.92	17	0	
20	QPSK	1	49	15.88	16.02	16.00			
20	QPSK	1	99	15.86	15.91	15.92			
20	QPSK	50	0	15.87	16.06	15.95			
20	QPSK	50	24	15.86	16.03	16.03	17	0	
20	QPSK	50	50	15.88	16.05	15.91			
20	QPSK	100	0	16.06	16.08	16.07			
20	16QAM	1	0	16.10	16.10	15.98			
20	16QAM	1	49	15.99	16.06	16.00	17	0	
20	16QAM	1	99	16.06	16.10	16.03			
20	16QAM	50	0	15.89	16.10	16.05			
20	16QAM	50	24	16.00	16.01	16.03			
20	16QAM	50	50	16.09	16.08	15.84	17	0	
20	16QAM	100	0	16.08	16.04	16.08			
20	64QAM	1	0	16.02	16.09	16.03			
20	64QAM	1	49	15.99	16.07	16.03	17	0	
20	64QAM	1	99	15.95	16.04	16.06			
20	64QAM	50	0	15.95	16.05	16.05			
20	64QAM	50	24	15.93	16.06	15.86	17	0	
20	64QAM	50	50	15.85	15.95	15.89			
20	64QAM	100	0	16.09	16.06	15.96			
Channel				132047	132322	132597			
Frequency (MHz)				17.17.5	17.45	17.72.5			
15	QPSK	1	0	15.88	16.06	15.92	17	0	
15	QPSK	1	37	15.77	15.95	15.85			
15	QPSK	1	74	15.71	15.78	15.83			
15	QPSK	36	0	15.82	16.01	15.81	17	0	
15	QPSK	36	20	15.74	15.93	15.90			
15	QPSK	36	39	15.80	15.98	15.81			
15	QPSK	75	0	15.95	16.04	16.02			
15	16QAM	1	0	15.99	16.06	15.87			
15	16QAM	1	37	15.82	15.93	15.92	17	0	
15	16QAM	1	74	15.93	15.94	15.99			
15	16QAM	36	0	15.72	15.96	15.91			
15	16QAM	36	20	15.86	15.96	15.96	17	0	
15	16QAM	36	39	16.06	15.96	15.74			
15	16QAM	75	0	15.94	16.00	15.97			
15	64QAM	1	0	15.96	16.03	15.96	17	0	
15	64QAM	1	37	15.93	16.00	15.94			
15	64QAM	1	74	15.84	15.99	15.96			
15	64QAM	36	0	15.91	15.96	16.00			
15	64QAM	36	20	15.85	15.92	15.73	17	0	
15	64QAM	36	39	15.78	15.90	15.84			
15	64QAM	75	0	15.96	16.00	15.93			
Channel				132022	132322	132622			
Frequency (MHz)				17.15	17.45	17.75			
10	QPSK	1	0	15.86	16.04	15.89	17	0	
10	QPSK	1	25	15.74	15.93	15.89			
10	QPSK	1	49	15.75	15.84	15.80			
10	QPSK	25	0	15.78	15.95	15.92			
10	QPSK	25	12	15.69	15.90	15.87	17	0	
10	QPSK	25	25	15.74	15.98	15.85			
10	QPSK	50	0	15.94	16.01	16.00			
10	16QAM	1	0	15.97	15.98	15.87	17	0	
10	16QAM	1	25	15.93	16.02	15.91			
10	16QAM	1	49	15.94	15.96	15.98			
10	16QAM	25	0	15.84	16.06	15.88			
10	16QAM	25	12	15.91	15.96	15.90	17	0	
10	16QAM	25	25	16.04	16.04	15.71			
10	16QAM	50	0	15.98	15.95	15.97			
10	64QAM	1	0	15.96	15.94	15.91	17	0	
10	64QAM	1	25	15.90	15.96	15.98			
10	64QAM	1	49	15.89	15.99	15.89			
10	64QAM	25	0	15.92	15.98	15.92			
10	64QAM	25	12	15.77	15.96	15.75	17	0	
10	64QAM	25	25	15.74	15.85	15.79			
10	64QAM	50	0	16.05	15.94	15.91			
Channel				131997	132322	132647			
Frequency (MHz)				17.12.5	17.45	17.77.5			
5	QPSK	1	0	15.96	16.05	15.93	17	0	
5	QPSK	1	12	15.79	15.96	15.91			
5	QPSK	1	24	15.73	15.82	15.82			
5	QPSK	12	0	15.72	15.92	15.79	17	0	
5	QPSK	12	7	15.80	15.94	15.86			
5	QPSK	12	13	15.77	15.97	15.84			
5	QPSK	25	0	16.03	15.98	16.03			
5	16QAM	1	0	16.00	16.00	15.96			
5	16QAM	1	12	15.93	16.01	15.91	17	0	
5	16QAM	1	24	15.92	16.03	15.94			
5	16QAM	12	0	15.74	16.06	15.88			
5	16QAM	12	7	15.90	15.92	15.99	17	0	
5	16QAM	12	13	16.05	15.97	15.73			
5	16QAM	25	0	15.96	15.96	15.93			
5	64QAM	1	0	15.94	16.03	15.92			
5	64QAM	1	12	15.90	16.01	15.97	17	0	
5	64QAM	1	24	15.85	15.87	15.89			
5	64QAM	12	0	15.79	15.97	15.90			
5	64QAM	12	7	15.77	15.92	15.79	17	0	
5	64QAM	12	13	15.70	15.82	15.86			
5	64QAM	25	0	15.96	15.95	15.89			
Channel				131987	132322	132657			
Frequency (MHz)				17.11.5	17.45	17.78.5			
3	QPSK	1	0	15.94	16.00	15.87	17	0	
3	QPSK	1	8	15.77	15.97	15.94			
3	QPSK	1	14	15.81	15.83	15.81			
3	QPSK	8	0	15.84	16.02	15.84			
3	QPSK	8	4	15.71	15.86	15.87	17	0	
3	QPSK	8	7	15.84	15.99	15.83			
3	QPSK	15	0	15.98	15.97	16.02			
3	16QAM	1	0	15.93	15.97	15.83			
3	16QAM	1	8	15.90	16.03	15.97	17	0	
3	16QAM	1	14	15.90	15.95	15.90			
3	16QAM	8	0	15.75	15.99	15.94			
3	16QAM	8	4	15.89	15.98	15.87	17	0	
3	16QAM	8	7	15.92	16.01	15.80			
3	16QAM	15	0	16.03	15.98	16.04			
3	64QAM	1	0	15.85	16.00	15.96			
3	64QAM	1	8	15.92	16.01	15.90	17	0	
3	64QAM	1	14	15.81	15.90	15.96			
3	64QAM	8	0	15.86	15.98	15.92			
3	64QAM	8	4	15.86	15.99	15.73	17	0	
3	64QAM	8	7	15.78	15.84	15.85			
3	64QAM	15	0	16.00	16.00	15.80			
Channel				131977	132322	132667			
Frequency (MHz)				17.10.7	17.45	17.79.2			
1.4	QPSK	1	0	15.82	16.03	15.84	17	0	
1.4	QPSK	1	3	15.73	15.88	15.89			
1.4	QPSK	1	5	15.76	15.91	15.88			
1.4	QPSK	3	0	16.01	16.00	16.03			
1.4	QPSK	3	1	16.05	16.03	15.83			
1.4	QPSK	3	3	15.90	15.95	15.84	17	0	
1.4	QPSK	6	0	15.97	16.06	15.88			
1.4	16QAM	1	0	15.73	15.99	15.89			
1.4	16QAM	1	3	15.86	15.89	16.00	17	0	
1.4	16QAM	1	5	16.02	16.02	15.79			
1.4	16QAM	3	0	16.04	15.92	16.03			
1.4	16QAM	3	1	15.97	16.00	15.93			
1.4	16QAM	3	3	15.94	15.96	15.91	17	0	
1.4	16QAM	6	0	15.80	15.91	15.94			
1.4	64QAM	1	0	15.87	15.90	15.96			
1.4	64QAM	1	3	15.79	15.97	15.79	17	0	
1.4	64QAM	1	5	15.74	15.83	15.80			
1.4	64QAM	3	0	15.96	15.96	15.89			
1.4	64QAM	3	1	15.77	15.95	15.73			
1.4	64QAM	3	3	15.71	15.81	15.75			
1.4	64QAM	6	0	16.04	15.95	15.81	17	0	

Band 71 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (



Band 41 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	15.27	15.35	15.70	15.54	15.55	16.5	0
20	QPSK	1	49	15.32	15.32	15.63	15.50	15.43		
20	QPSK	1	99	15.35	15.34	15.54	15.41	15.51	16.5	0
20	QPSK	50	0	15.21	15.37	15.68	15.51	15.54		
20	QPSK	50	24	15.28	15.33	15.59	15.47	15.53	16.5	0
20	QPSK	50	50	15.25	15.33	15.49	15.42	15.37		
20	QPSK	100	0	15.28	15.39	15.62	15.50	15.58	16.5	0
20	16QAM	1	0	15.25	15.35	15.68	15.45	15.61		
20	16QAM	1	49	15.21	15.24	15.58	15.57	15.41	16.5	0
20	16QAM	1	99	15.23	15.35	15.50	15.54	15.47		
20	16QAM	50	0	15.20	15.18	15.48	15.61	15.41	16.5	0
20	16QAM	50	24	15.21	15.22	15.49	15.49	15.49		
20	16QAM	50	50	15.16	15.17	15.39	15.49	15.34	16.5	0
20	16QAM	100	0	15.26	15.33	15.68	15.51	15.52		
20	64QAM	1	0	15.25	15.31	15.21	15.36	15.18	16.5	0
20	64QAM	1	49	15.29	15.25	15.21	15.25	15.05		
20	64QAM	1	99	15.29	15.37	15.23	15.25	15.08	16.5	0
20	64QAM	50	0	15.34	15.37	15.67	15.41	15.32		
20	64QAM	50	24	15.26	15.20	15.46	15.30	15.49	16.5	0
20	64QAM	50	50	15.22	15.20	15.39	15.39	15.38		
20	64QAM	100	0	15.26	15.33	15.62	15.35	15.33		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	15.24	15.28	15.66	15.39	15.39	16.5	0
15	QPSK	1	37	15.25	15.24	15.58	15.37	15.29		
15	QPSK	1	74	15.26	15.24	15.41	15.25	15.38	16.5	0
15	QPSK	36	0	15.21	15.33	15.62	15.43	15.44		
15	QPSK	36	20	15.28	15.26	15.53	15.34	15.49	16.5	0
15	QPSK	36	39	15.23	15.29	15.37	15.33	15.33		
15	QPSK	75	0	15.19	15.24	15.47	15.35	15.53	16.5	0
15	16QAM	1	0	15.26	15.32	15.63	15.38	15.46		
15	16QAM	1	37	15.26	15.24	15.49	15.47	15.28	16.5	0
15	16QAM	1	74	15.22	15.26	15.44	15.41	15.37		
15	16QAM	36	0	15.08	15.12	15.34	15.37	15.29	16.5	0
15	16QAM	36	20	15.05	15.06	15.40	15.38	15.41		
15	16QAM	36	39	15.12	15.14	15.24	15.45	15.28	16.5	0
15	16QAM	75	0	15.11	15.20	15.30	15.38	15.40		
15	64QAM	1	0	15.16	15.24	15.05	15.08	15.08	16.5	0
15	64QAM	1	37	15.24	15.17	15.07	15.14	15.04		
15	64QAM	1	74	15.12	15.34	15.12	15.15	15.07	16.5	0
15	64QAM	36	0	15.18	15.23	15.61	15.34	15.20		
15	64QAM	36	20	15.24	15.27	15.39	15.19	15.41	16.5	0
15	64QAM	36	39	15.26	15.21	15.25	15.33	15.24		
15	64QAM	75	0	15.12	15.28	15.55	15.32	15.18		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	15.22	15.31	15.66	15.46	15.48	16.5	0
10	QPSK	1	25	15.16	15.22	15.51	15.38	15.39		
10	QPSK	1	49	15.19	15.19	15.39	15.28	15.36	16.5	0
10	QPSK	25	0	15.07	15.22	15.52	15.36	15.50		
10	QPSK	25	12	15.22	15.30	15.50	15.43	15.48	16.5	0
10	QPSK	25	25	15.16	15.27	15.43	15.28	15.32		
10	QPSK	50	0	15.17	15.27	15.54	15.37	15.47	16.5	0
10	16QAM	1	0	15.15	15.26	15.55	15.31	15.53		
10	16QAM	1	25	15.08	15.17	15.46	15.52	15.27	16.5	0
10	16QAM	1	49	15.18	15.18	15.33	15.41	15.32		
10	16QAM	25	0	15.14	15.08	15.35	15.54	15.32	16.5	0
10	16QAM	25	12	15.08	15.16	15.42	15.45	15.42		
10	16QAM	25	25	15.05	15.11	15.29	15.44	15.20	16.5	0
10	16QAM	50	0	15.19	15.20	15.55	15.35	15.48		
10	64QAM	1	0	15.13	15.26	15.07	15.04	15.08	16.5	0
10	64QAM	1	25	15.26	15.12	15.15	15.15	15.00		
10	64QAM	1	49	15.21	15.25	15.11	15.11	15.08	16.5	0
10	64QAM	25	0	15.27	15.22	15.36	15.28	15.27		
10	64QAM	25	12	15.10	15.10	15.33	15.21	15.34	16.5	0
10	64QAM	25	25	15.15	15.16	15.24	15.26	15.30		
10	64QAM	50	0	15.14	15.18	15.52	15.26	15.25		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	15.20	15.31	15.64	15.48	15.39	16.5	0
5	QPSK	1	12	15.18	15.20	15.58	15.37	15.29		
5	QPSK	1	24	15.17	15.30	15.50	15.27	15.34	16.5	0
5	QPSK	12	0	15.19	15.28	15.64	15.37	15.46		
5	QPSK	12	7	15.16	15.30	15.49	15.38	15.42	16.5	0
5	QPSK	12	13	15.20	15.16	15.34	15.27	15.33		
5	QPSK	25	0	15.24	15.31	15.53	15.45	15.42	16.5	0
5	16QAM	1	0	15.16	15.21	15.58	15.34	15.45		
5	16QAM	1	12	15.17	15.16	15.47	15.53	15.25	16.5	0
5	16QAM	1	24	15.11	15.29	15.36	15.41	15.33		
5	16QAM	12	0	15.04	15.08	15.37	15.52	15.32	16.5	0
5	16QAM	12	7	15.14	15.14	15.40	15.37	15.39		
5	16QAM	12	13	15.08	15.06	15.36	15.41	15.18	16.5	0
5	16QAM	25	0	15.10	15.21	15.58	15.45	15.43		
5	64QAM	1	0	15.09	15.17	15.16	15.07	15.01	16.5	0
5	64QAM	1	12	15.17	15.17	15.11	15.10	15.08		
5	64QAM	1	24	15.23	15.21	15.12	15.15	15.02	16.5	0
5	64QAM	12	0	15.30	15.23	15.50	15.33	15.20		
5	64QAM	12	7	15.12	15.07	15.34	15.15	15.33	16.5	0
5	64QAM	12	13	15.11	15.14	15.31	15.29	15.35		
5	64QAM	25	0	15.14	15.26	15.52	15.26	15.19		

Band 41 HPUE Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.03	18.12	18.51	18.34	18.35	19.5	0
20	QPSK	1	49	18.08	18.09	18.35	18.16	18.26		
20	QPSK	1	99	18.08	18.15	18.43	18.20	18.14	19.5	0
20	QPSK	50	0	18.04	18.11	18.47	18.18	18.37		
20	QPSK	50	24	18.10	18.04	18.25	18.16	18.32	19.5	0
20	QPSK	50	50	18.03	18.05	18.45	18.20	18.27		
20	QPSK	100	0	18.19	18.21	18.42	18.27	18.29	19.5	0
20	16QAM	1	0	18.09	18.05	18.32	18.23	18.40		
20	16QAM	1	49	18.01	18.07	18.35	18.22	18.30	19.5	0
20	16QAM	1	99	17.97	17.98	18.28	18.25	18.13		
20	16QAM	50	0	17.97	18.10	18.21	18.20	18.26	19.5	0
20	16QAM	50	24	17.99	18.09	18.32	17.99	18.42		
20	16QAM	50	50	18.02	18.12	18.29	18.18	18.17	19.5	0
20	16QAM	100	0	18.23	18.29	18.49	18.34	18.46		
20	64QAM	1	0	17.81	17.80	18.12	18.12	18.14	19.5	0
20	64QAM	1	49	17.82	17.80	18.15	18.00	18.24		
20	64QAM	1	99	17.90	17.90	18.07	18.09	17.81	19.5	0
20	64QAM	50	0	18.12	18.13	18.34	18.24	18.25		
20	64QAM	50	24	18.12	18.03	18.34	17.97	18.36	19.5	0
20	64QAM	50	50	18.08	18.10	18.26	18.16	18.30		
20	64QAM	100	0							



Band 48 Ant5_FCC

Channel	Channel	Channel	Channel	Tune-up limit (dBm)	MPR (dB)				
55340	55830	56150	56640						
Frequency (MHz)	3560	3609	3641	3690					
20	QPSK	1	0	15.82	16.08	15.98	15.97	17.5	0
20	QPSK	1	49	15.77	16.04	15.81	15.88		
20	QPSK	1	99	15.72	15.94	15.78	15.89		
20	QPSK	50	0	15.90	16.02	15.97	15.90		
20	QPSK	50	24	15.88	15.97	15.77	15.92	17.5	0
20	QPSK	50	50	15.70	15.88	15.76	15.70		
20	QPSK	100	0	15.76	15.92	15.90	15.90		
20	QPSK	100	0	15.74	15.87	15.89	15.84		
20	16QAM	1	0	15.74	15.87	15.89	15.84	17.5	0
20	16QAM	1	49	15.84	16.01	15.77	15.91		
20	16QAM	1	99	15.72	16.00	15.84	15.72		
20	16QAM	50	0	15.98	16.04	16.05	15.80		
20	16QAM	50	24	15.92	16.02	15.92	15.79	17.5	0
20	16QAM	50	50	15.74	16.04	15.72	15.81		
20	16QAM	100	0	15.89	16.02	15.85	15.81		
20	16QAM	100	0	15.66	15.77	15.67	15.52		
20	64QAM	1	49	15.67	15.80	15.57	15.65	17.5	0
20	64QAM	1	99	15.59	15.78	15.60	15.64		
20	64QAM	50	0	16.00	16.03	15.99	15.74		
20	64QAM	50	24	16.01	16.02	15.88	15.74		
20	64QAM	50	50	15.72	16.00	15.65	15.75	17.5	0
20	64QAM	100	0	15.75	15.97	15.85	15.77		
Channel	Channel	Channel	Channel	Tune-up limit (dBm)	MPR (dB)				
55715	55820	56160	56665						
Frequency (MHz)	3571.5	3603	3642	3692.5					
15	QPSK	1	0	15.72	15.97	15.89	15.89	17.5	0
15	QPSK	1	37	15.68	15.91	15.70	15.74		
15	QPSK	1	74	15.64	15.81	15.67	15.80		
15	QPSK	36	0	15.80	15.91	15.89	15.81		
15	QPSK	36	20	15.79	15.84	15.68	15.83	17.5	0
15	QPSK	36	39	15.80	15.76	15.67	15.59		
15	QPSK	75	0	15.65	15.84	15.82	15.79		
15	16QAM	1	0	15.66	15.77	15.77	15.75		
15	16QAM	1	37	15.76	15.87	15.68	15.81	17.5	0
15	16QAM	1	74	15.63	15.91	15.71	15.60		
15	16QAM	36	0	15.89	15.90	15.91	15.66		
15	16QAM	36	20	15.84	15.93	15.84	15.66		
15	16QAM	36	39	15.65	15.91	15.64	15.67	17.5	0
15	16QAM	75	0	15.81	15.89	15.74	15.67		
15	64QAM	1	0	15.65	15.65	15.54	15.59		
15	64QAM	1	37	15.58	15.72	15.54	15.57		
15	64QAM	1	74	15.50	15.68	15.50	15.53	17.5	0
15	64QAM	36	0	15.88	15.90	15.90	15.60		
15	64QAM	36	20	15.93	15.88	15.76	15.65		
15	64QAM	36	39	15.64	15.91	15.52	15.67		
15	64QAM	75	0	15.67	15.86	15.73	15.67	17.5	0
Channel	Channel	Channel	Channel	Tune-up limit (dBm)	MPR (dB)				
55290	55815	56165	56690						
Frequency (MHz)	3555	3607.5	3642.5	3695					
10	QPSK	1	0	15.74	16.00	15.85	15.88	17.5	0
10	QPSK	1	25	15.69	15.92	15.70	15.80		
10	QPSK	1	49	15.64	15.84	15.64	15.80		
10	QPSK	25	0	15.82	15.91	15.87	15.77		
10	QPSK	25	12	15.77	15.89	15.67	15.82	17.5	0
10	QPSK	25	25	15.62	15.78	15.68	15.58		
10	QPSK	50	0	15.62	15.80	15.81	15.80		
10	16QAM	1	0	15.66	15.73	15.77	15.76		
10	16QAM	1	25	15.72	15.92	15.88	15.82	17.5	0
10	16QAM	1	49	15.63	15.92	15.70	15.63		
10	16QAM	25	0	15.89	15.90	15.91	15.68		
10	16QAM	25	12	15.81	15.93	15.80	15.65		
10	16QAM	25	25	15.64	15.92	15.62	15.72	17.5	0
10	16QAM	50	0	15.75	15.93	15.75	15.67		
10	64QAM	1	0	15.55	15.67	15.54	15.54		
10	64QAM	1	25	15.58	15.67	15.51	15.57		
10	64QAM	1	49	15.50	15.69	15.53	15.55	17.5	0
10	64QAM	25	0	15.86	15.91	15.86	15.64		
10	64QAM	25	12	15.93	15.88	15.77	15.65		
10	64QAM	25	25	15.58	15.88	15.52	15.65		
10	64QAM	50	0	15.67	15.83	15.73	15.65	17.5	0
Channel	Channel	Channel	Channel	Tune-up limit (dBm)	MPR (dB)				
55265	55810	56170	56715						
Frequency (MHz)	3562.5	3607	3643	3697.5					
5	QPSK	1	0	15.68	15.94	15.92	15.80	17.5	0
5	QPSK	1	12	15.62	15.90	15.66	15.75		
5	QPSK	1	24	15.64	15.86	15.74	15.76		
5	QPSK	12	0	15.85	15.93	15.91	15.80		
5	QPSK	12	7	15.75	15.85	15.70	15.79	17.5	0
5	QPSK	12	13	15.59	15.71	15.59	15.65		
5	QPSK	25	0	15.69	15.87	15.82	15.78		
5	16QAM	1	0	15.69	15.72	15.77	15.71		
5	16QAM	1	12	15.71	15.95	15.65	15.77	17.5	0
5	16QAM	1	24	15.65	15.83	15.74	15.65		
5	16QAM	12	0	15.85	15.91	15.95	15.69		
5	16QAM	12	7	15.78	15.95	15.78	15.72		
5	16QAM	12	13	15.61	15.96	15.61	15.74	17.5	0
5	16QAM	25	0	15.78	15.93	15.78	15.73		
5	64QAM	1	0	15.51	15.53	15.53	15.51		
5	64QAM	1	12	15.53	15.52	15.50	15.56		
5	64QAM	1	24	15.51	15.53	15.52	15.53	17.5	0
5	64QAM	12	0	15.94	15.96	15.81	15.89		
5	64QAM	12	7	15.95	15.87	15.74	15.64		
5	64QAM	12	13	15.65	15.89	15.59	15.58		
5	64QAM	25	0	15.60	15.82	15.77	15.72	17.5	0



Band 41 Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	17.57	17.64	17.99	17.79	17.77	19	0		
20	QPSK	1	49	17.57	17.61	17.87	17.49	17.82				
20	QPSK	1	99	17.59	17.65	17.89	17.67	17.83				
20	QPSK	50	0	17.48	17.68	17.82	17.73	17.80				
20	QPSK	50	24	17.54	17.75	17.80	17.65	17.76	19	0		
20	QPSK	50	50	17.58	17.64	17.81	17.73	17.79				
20	QPSK	100	0	17.51	17.78	17.86	17.84	17.76				
20	16QAM	1	0	17.42	17.47	17.83	17.62	17.62				
20	16QAM	1	49	17.53	17.53	17.74	17.57	17.62	19	0		
20	16QAM	1	99	17.51	17.56	17.72	17.52	17.72				
20	16QAM	50	0	17.59	17.84	17.95	17.65	17.88				
20	16QAM	50	24	17.60	17.81	17.70	17.49	17.75				
20	16QAM	50	50	17.63	17.68	17.79	17.58	17.92	19	0		
20	16QAM	100	0	17.52	17.77	17.84	17.73	17.83				
20	64QAM	1	0	17.01	17.14	17.30	17.09	17.29				
20	64QAM	1	49	17.02	17.27	17.39	17.05	17.21				
20	64QAM	1	99	17.13	17.16	17.31	17.14	17.31	19	0		
20	64QAM	50	0	17.14	17.23	17.32	17.05	17.34				
20	64QAM	50	24	17.17	17.38	17.34	17.19	17.32				
20	64QAM	50	50	17.27	17.18	17.27	17.08	17.44				
20	64QAM	100	0	17.04	17.38	17.30	17.29	17.27	18.5	0.5		
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	17.55	17.65	17.91	17.83	17.69			19.0	0
15	QPSK	1	37	17.52	17.66	17.93	17.51	17.77				
15	QPSK	1	74	17.59	17.66	17.88	17.64	17.85				
15	QPSK	36	0	17.42	17.67	17.82	17.76	17.85				
15	QPSK	36	20	17.64	17.76	17.86	17.63	17.80	19	0		
15	QPSK	36	39	17.61	17.59	17.74	17.70	17.72				
15	QPSK	75	0	17.51	17.84	17.86	17.77	17.72				
15	16QAM	1	0	17.45	17.40	17.78	17.60	17.65				
15	16QAM	1	37	17.52	17.51	17.74	17.54	17.54	19	0		
15	16QAM	1	74	17.57	17.56	17.66	17.47	17.71				
15	16QAM	36	0	17.55	17.88	17.90	17.61	17.94				
15	16QAM	36	20	17.60	17.77	17.75	17.54	17.80				
15	16QAM	36	39	17.56	17.66	17.84	17.52	17.97	19	0		
15	16QAM	75	0	17.50	17.74	17.79	17.71	17.82				
15	64QAM	1	0	17.06	17.13	17.23	17.03	17.24				
15	64QAM	1	37	17.06	17.21	17.35	17.01	17.15				
15	64QAM	1	74	17.07	17.12	17.29	17.11	17.36	19	0		
15	64QAM	36	0	17.05	17.07	17.15	17.00	17.21				
15	64QAM	36	20	17.05	17.22	17.21	17.04	17.15				
15	64QAM	36	39	17.15	17.16	17.06	16.97	17.15				
15	64QAM	75	0	16.91	17.18	17.10	17.17	17.22	18.5	0.5		
Channel				39700	40160	40620	41080	41540				
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	17.53	17.68	17.96	17.72	17.78			19.0	0
10	QPSK	1	25	17.52	17.59	17.92	17.50	17.85				
10	QPSK	1	49	17.59	17.66	17.92	17.67	17.80				
10	QPSK	25	0	17.44	17.61	17.80	17.77	17.73				
10	QPSK	25	12	17.63	17.69	17.79	17.69	17.76	19	0		
10	QPSK	25	25	17.54	17.67	17.80	17.67	17.81				
10	QPSK	50	0	17.51	17.83	17.82	17.85	17.77				
10	16QAM	1	0	17.35	17.45	17.76	17.57	17.61				
10	16QAM	1	25	17.57	17.46	17.76	17.62	17.60	19	0		
10	16QAM	1	49	17.56	17.51	17.67	17.46	17.75				
10	16QAM	25	0	17.60	17.85	17.92	17.69	17.91				
10	16QAM	25	12	17.53	17.77	17.63	17.46	17.73				
10	16QAM	25	25	17.60	17.66	17.83	17.61	17.92	19	0		
10	16QAM	50	0	17.49	17.79	17.89	17.76	17.85				
10	64QAM	1	0	17.04	17.14	17.29	17.02	17.28				
10	64QAM	1	25	17.04	17.23	17.35	17.06	17.19				
10	64QAM	1	49	17.17	17.19	17.31	17.07	17.28	19	0		
10	64QAM	25	0	17.12	17.16	17.20	17.04	17.23				
10	64QAM	25	12	17.06	17.37	17.24	17.15	17.20				
10	64QAM	25	25	17.08	17.20	17.11	16.99	17.35				
10	64QAM	50	0	17.06	17.22	17.24	17.30	17.25	18.5	0.5		
Channel				39675	40148	40620	41093	41565				
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	17.61	17.64	17.98	17.80	17.77			19.0	0
5	QPSK	1	12	17.56	17.63	17.92	17.51	17.77				
5	QPSK	1	24	17.53	17.66	17.85	17.65	17.78				
5	QPSK	12	0	17.50	17.71	17.84	17.65	17.73				
5	QPSK	12	7	17.57	17.73	17.84	17.64	17.79	19	0		
5	QPSK	12	13	17.52	17.65	17.74	17.73	17.74				
5	QPSK	25	0	17.50	17.83	17.80	17.82	17.80				
5	16QAM	1	0	17.47	17.43	17.88	17.61	17.61				
5	16QAM	1	12	17.49	17.48	17.69	17.53	17.61	19	0		
5	16QAM	1	24	17.53	17.58	17.68	17.53	17.66				
5	16QAM	12	0	17.55	17.87	17.93	17.58	17.82				
5	16QAM	12	7	17.61	17.85	17.72	17.54	17.76				
5	16QAM	12	13	17.63	17.72	17.76	17.61	17.91	19	0		
5	16QAM	25	0	17.46	17.79	17.89	17.72	17.78				
5	64QAM	1	0	17.06	17.20	17.26	17.03	17.33				
5	64QAM	1	12	17.07	17.32	17.42	17.07	17.15				
5	64QAM	1	24	17.06	17.08	17.32	17.17	17.34	19	0		
5	64QAM	12	0	17.09	17.04	17.29	16.91	17.23				
5	64QAM	12	7	17.07	17.27	17.13	17.11	17.25				
5	64QAM	12	13	17.25	17.06	17.15	16.99	17.35				
5	64QAM	25	0	16.88	17.20	17.17	17.24	17.27	18.5	0.5		

Band 41 HPUE Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	20.61	20.65	21.05	20.72	20.82	22	0		
20	QPSK	1	49	20.68	20.74	20.87	20.65	20.81				
20	QPSK	1	99	20.72	20.73	20.93	20.68	20.98				
20	QPSK	50	0	20.85	20.92	21.01	20.83	20.88				
20	QPSK	50	24	20.65	20.64	20.92	20.91	20.87	22	0		
20	QPSK	50	50	20.61	20.78	20.97	20.80	20.86				
20	QPSK	100	0	20.62	20.69	20.97	20.70	20.81				
20	16QAM	1	0	20.77	20.78	21.02	20.78	20.80				
20	16QAM	1	49	20.70	20.80	20.88	20.73	20.70	22	0		
20	16QAM	1	99	20.76	20.84	20.99	20.70	20.80				
20	16QAM	50	0	20.82	20.70	20.80	20.74	20.78				
20	16QAM	50	24	20.64	20.61	20.94	20.74	20.82				
20	16QAM	50	50	20.64	20.61	20.80	20.70	20.75	22	0		
20	16QAM	100	0	20.77	20.64	20.96	20.80	20.80				
20	64QAM	1	0	20.63	20.73	20.84	20.76	20.82				
20	64QAM	1	49	20.61	20.51	20.70	20.85	20.67				
20	64QAM	1	99	20.50	20.82	20.75	20.81	20.68	22	0		
20	64QAM	50	0	20.39	20.39	20.67	20.27	20.38				
20	64QAM	50	24	20.23	20.39	20.56	20.33	20.43				
20	64QAM	50	50	20.27	20.42	20.51	20.35	20.25				
20	64QAM	100	0	20.33	20.21	20.62	20.18	20.38	21.5	0.5		
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	20.54	20.66	20.98	20.71	20.79			22.0	0
15	QPSK	1	37	20.61	20.75	20.86	20.66	20.77				
15	QPSK	1	74	20.67	20.76	20.86	20.67	20.65				



EC13 Power

GSM850 Ant0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	29.00	824.2	836.4	848.8	29.00
GSM11 Tx slot	28.12	28.23	28.02	29.00	19.12	19.23	19.02	20.00
GPRS 1 Tx slot	27.99	28.01	27.94	29.00	18.99	19.01	18.94	20.00
GPRS 2 Tx slots	28.92	26.97	26.99	28.00	20.92	20.97	20.99	22.00
GPRS 3 Tx slots	24.88	24.95	24.90	26.00	20.62	20.69	20.64	21.74
GPRS 4 Tx slots	23.70	23.81	23.74	25.00	20.70	20.81	20.74	22.00
EDGE 1 Tx slot	21.72	21.77	21.67	23.00	12.72	12.77	12.67	14.00
EDGE 2 Tx slots	20.59	20.76	20.56	21.50	14.59	14.76	14.56	15.50
EDGE 3 Tx slots	18.42	18.37	18.43	19.50	14.16	14.11	14.17	15.24
EDGE 4 Tx slots	17.01	17.01	16.99	18.00	14.01	14.01	13.99	15.00

GSM1900 Ant0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1909.8	21.50	1850.2	1860	1909.8	21.50
GSM11 Tx slot	21.09	21.23	21.00	21.50	12.09	12.23	12.00	12.50
GPRS 1 Tx slot	21.08	21.21	20.99	21.50	12.08	12.21	11.99	12.50
GPRS 2 Tx slots	20.35	20.37	20.08	20.50	14.35	14.37	14.08	14.50
GPRS 3 Tx slots	18.34	18.41	18.02	19.00	14.08	14.15	13.76	14.74
GPRS 4 Tx slots	17.17	17.11	17.08	17.50	14.17	14.11	14.08	14.50
EDGE 1 Tx slot	16.86	16.86	16.66	18.00	7.86	7.86	7.66	9.00
EDGE 2 Tx slots	15.73	15.81	15.64	17.00	9.73	9.81	9.64	11.00
EDGE 3 Tx slots	13.73	13.80	13.66	15.00	9.47	9.54	9.40	10.74
EDGE 4 Tx slots	12.31	12.33	12.27	13.50	9.31	9.33	9.27	10.50

Band TX Channel	WCDMA II Ant0			Tune-up Limit (dBm)	WCDMA IV Ant0			WCDMA V Ant0			Tune-up Limit (dBm)		
	9262	9400	9538		1312	1413	1513	4132	4182	4233			
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458				
Frequency (MHz)	1920.4	1930	1979.6	1724	1727.6	1737.8	2924	2934	2966				
3GPP Rel 99	AMR 12.2Kbps	13.14	13.42	13.41	15.00	15.88	16.05	15.90	17.50	20.65	20.65	20.48	22.00
3GPP Rel 99	RMC 12.2Kbps	13.26	13.48	13.41	15.00	16.04	16.06	15.92	17.50	20.65	20.74	20.61	22.00
3GPP Rel 6	HSDPA Subtest-1	12.33	12.47	12.40	14.00	14.96	14.98	14.67	16.50	19.66	19.73	19.50	21.00
3GPP Rel 6	HSDPA Subtest-2	12.31	12.47	12.44	14.00	14.93	15.03	14.80	16.50	19.56	19.73	19.53	21.00
3GPP Rel 6	HSDPA Subtest-3	11.81	11.98	11.71	13.50	14.48	14.46	14.28	16.00	19.16	19.18	19.17	20.50
3GPP Rel 6	HSDPA Subtest-4	11.82	11.89	12.04	13.50	14.59	14.49	14.22	16.00	19.26	19.34	19.09	20.50
3GPP Rel 6	DCHSDPA Subtest-1	12.16	12.41	12.22	14.00	14.80	14.96	14.85	16.50	19.63	19.88	19.55	21.00
3GPP Rel 6	DCHSDPA Subtest-2	12.24	12.25	12.40	14.00	15.04	15.13	15.00	16.50	19.84	19.89	19.67	21.00
3GPP Rel 6	DCHSDPA Subtest-3	11.53	11.90	11.64	13.50	14.48	14.61	14.36	16.00	19.19	19.11	19.06	20.50
3GPP Rel 6	DCHSDPA Subtest-4	11.74	11.78	11.97	13.50	14.51	14.43	14.29	16.00	19.25	19.25	18.98	20.50
3GPP Rel 6	HSUPA Subtest-1	12.35	12.41	12.17	14.00	14.93	15.05	14.71	16.50	19.69	19.73	19.79	21.00
3GPP Rel 6	HSUPA Subtest-2	10.31	10.48	10.35	12.00	13.11	13.09	12.93	14.50	17.55	17.88	17.58	19.00
3GPP Rel 6	HSUPA Subtest-3	11.34	11.60	11.49	13.00	13.96	13.93	13.81	15.50	18.65	18.81	18.69	20.00
3GPP Rel 6	HSUPA Subtest-4	10.29	10.48	10.46	12.00	12.89	12.89	12.74	14.50	17.68	17.71	17.52	19.00
3GPP Rel 6	HSUPA Subtest-5	12.00	12.33	12.28	14.00	15.07	15.09	14.76	16.50	19.69	19.76	19.64	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	9.84	10.08	10.00	11.50	12.45	12.62	12.32	14.00	17.07	17.10	16.97	18.50



Band 2 Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				18700	18900	19100		
20	QPSK	1	0	13.31	13.37	13.43	15	0
20	QPSK	1	49	13.37	13.50	13.55		
20	QPSK	1	99	13.37	13.59	13.47		
20	QPSK	50	0	13.50	13.58	13.55		
20	QPSK	50	24	13.35	13.56	13.57		
20	QPSK	50	50	13.32	13.59	13.56		
20	QPSK	100	0	13.44	13.63	13.54		
20	16QAM	1	0	13.33	13.53	13.55		
20	16QAM	1	49	13.30	13.59	13.52	15	0
20	16QAM	1	99	13.40	13.64	13.49		
20	16QAM	50	0	13.40	13.52	13.65		
20	16QAM	50	24	13.44	13.59	13.58		
20	16QAM	50	50	13.35	13.50	13.62		
20	16QAM	100	0	13.44	13.57	13.53		
20	64QAM	1	0	13.36	13.56	13.48		
20	64QAM	1	49	13.37	13.58	13.51		
20	64QAM	1	99	13.43	13.57	13.37		
20	64QAM	50	0	13.34	13.56	13.43		
20	64QAM	50	24	13.33	13.62	13.53		
20	64QAM	50	50	13.47	13.53	13.52		
20	64QAM	100	0	13.46	13.53	13.47		
Channel								
Frequency (MHz)				18675	18900	19125		
15	QPSK	1	0	13.49	13.62	13.54	15	0
15	QPSK	1	37	13.40	13.55	13.50		
15	QPSK	1	74	13.40	13.50	13.47		
15	QPSK	36	0	13.49	13.53	13.58		
15	QPSK	36	20	13.38	13.57	13.59		
15	QPSK	36	39	13.33	13.52	13.59		
15	QPSK	75	0	13.38	13.66	13.57		
15	16QAM	1	0	13.39	13.47	13.56		
15	16QAM	1	37	13.35	13.60	13.53	15	0
15	16QAM	1	74	13.34	13.66	13.46		
15	16QAM	36	0	13.37	13.49	13.66		
15	16QAM	36	20	13.44	13.53	13.58		
15	16QAM	36	39	13.36	13.53	13.63		
15	16QAM	75	0	13.32	13.58	13.55		
15	64QAM	1	0	13.43	13.61	13.49		
15	64QAM	1	37	13.42	13.54	13.48	15	0
15	64QAM	1	74	13.46	13.51	13.53		
15	64QAM	36	0	13.40	13.52	13.45		
15	64QAM	36	20	13.35	13.64	13.48		
15	64QAM	36	39	13.45	13.56	13.50		
15	64QAM	75	0	13.44	13.55	13.45		
Channel								
Frequency (MHz)				18650	18900	19150		
10	QPSK	1	0	13.46	13.66	13.53	15	0
10	QPSK	1	25	13.33	13.56	13.48		
10	QPSK	1	49	13.37	13.50	13.42		
10	QPSK	25	0	13.49	13.55	13.56		
10	QPSK	25	12	13.35	13.51	13.52		
10	QPSK	25	25	13.38	13.54	13.51	15	0
10	QPSK	50	0	13.42	13.54	13.58		
10	16QAM	1	0	13.39	13.48	13.55		
10	16QAM	1	25	13.31	13.64	13.58	15	0
10	16QAM	1	49	13.35	13.64	13.44		
10	16QAM	25	0	13.36	13.53	13.62		
10	16QAM	25	12	13.42	13.62	13.59		
10	16QAM	25	25	13.35	13.55	13.62		
10	16QAM	50	0	13.44	13.64	13.50		
10	64QAM	1	0	13.45	13.59	13.50		
10	64QAM	1	25	13.42	13.59	13.52	15	0
10	64QAM	1	49	13.41	13.59	13.51		
10	64QAM	25	0	13.35	13.51	13.46		
10	64QAM	25	12	13.36	13.62	13.56		
10	64QAM	25	25	13.41	13.52	13.56		
10	64QAM	50	0	13.48	13.60	13.45		
Channel								
Frequency (MHz)				18625	18900	19175		
5	QPSK	1	0	13.52	13.68	13.57	15	0
5	QPSK	1	12	13.36	13.56	13.53		
5	QPSK	1	24	13.41	13.55	13.48		
5	QPSK	12	0	13.51	13.56	13.54		
5	QPSK	12	7	13.42	13.57	13.58		
5	QPSK	12	13	13.31	13.57	13.59		
5	QPSK	25	0	13.35	13.67	13.58		
5	16QAM	1	0	13.36	13.54	13.59		
5	16QAM	1	12	13.35	13.62	13.56	15	0
5	16QAM	1	24	13.38	13.68	13.53		
5	16QAM	12	0	13.41	13.57	13.64		
5	16QAM	12	7	13.42	13.66	13.53		
5	16QAM	12	13	13.38	13.57	13.66		
5	16QAM	25	0	13.52	13.61	13.50		
5	64QAM	1	0	13.43	13.57	13.47		
5	64QAM	1	12	13.37	13.54	13.47	15	0
5	64QAM	1	24	13.42	13.54	13.49		
5	64QAM	12	0	13.37	13.56	13.50		
5	64QAM	12	7	13.41	13.57	13.50		
5	64QAM	12	13	13.44	13.51	13.48		
5	64QAM	25	0	13.50	13.61	13.44		
Channel								
Frequency (MHz)				18615	18900	19185		
3	QPSK	1	0	13.52	13.63	13.53	15	0
3	QPSK	1	8	13.37	13.64	13.47		
3	QPSK	1	14	13.45	13.51	13.45		
3	QPSK	8	0	13.45	13.55	13.52		
3	QPSK	8	4	13.43	13.56	13.59		
3	QPSK	8	7	13.36	13.56	13.54	15	0
3	QPSK	15	0	13.35	13.60	13.56		
3	16QAM	1	0	13.38	13.53	13.55		
3	16QAM	1	8	13.35	13.57	13.55	15	0
3	16QAM	1	14	13.31	13.60	13.49		
3	16QAM	8	0	13.42	13.58	13.68		
3	16QAM	8	4	13.45	13.67	13.52		
3	16QAM	8	7	13.37	13.52	13.58		
3	16QAM	15	0	13.47	13.58	13.52		
3	64QAM	1	0	13.41	13.60	13.40		
3	64QAM	1	8	13.38	13.62	13.51	15	0
3	64QAM	1	14	13.46	13.57	13.56		
3	64QAM	8	0	13.35	13.53	13.41		
3	64QAM	8	4	13.41	13.64	13.52		
3	64QAM	8	7	13.41	13.59	13.48		
3	64QAM	15	0	13.44	13.54	13.48		
Channel								
Frequency (MHz)				18607	18900	19193		
1.4	QPSK	1	0	13.52	13.68	13.52	15	0
1.4	QPSK	1	3	13.40	13.59	13.51		
1.4	QPSK	1	5	13.44	13.52	13.43		
1.4	QPSK	3	0	13.50	13.56	13.54		
1.4	QPSK	3	1	13.37	13.50	13.59		
1.4	QPSK	3	3	13.39	13.58	13.56		
1.4	QPSK	6	0	13.43	13.65	13.60	15	0
1.4	16QAM	1	0	13.42	13.56	13.52		
1.4	16QAM	1	3	13.33	13.63	13.57		
1.4	16QAM	1	5	13.36	13.62	13.48		
1.4	16QAM	3	0	13.37	13.53	13.67		
1.4	16QAM	3	1	13.45	13.65	13.51	15	0
1.4	16QAM	3	3	13.42	13.52	13.58		
1.4	16QAM	6	0	13.47	13.58	13.52	15	0
1.4	64QAM	1	0	13.40	13.54	13.43		
1.4	64QAM	1	3	13.36	13.59	13.49		
1.4	64QAM	1	4	13.42	13.51	13.52		
1.4	64QAM	3	0	13.38	13.54	13.50	15	0
1.4	64QAM	3	1	13.38	13.62	13.48		
1.4	64QAM	3	3	13.41	13.60	13.46		
1.4	64QAM	6	0	13.46	13.53	13.44	15	0

Band 4 Ant0 ECI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				20050	20175	20300		
20	QPSK	1	0	16.40	16.40	16.40	18	0
20	QPSK	1	49	16.25	16.31	16.38		
20	QPSK	1	99	16.16	16.39	16.30		
20	QPSK	50	0	16.32	16.44	16.43		
20	QPSK	50	24	16.28	16.29	16.31		
20	QPSK	50	50	16.19	16.28	16.28		
20	QPSK	100	0	16.32	16.42	16.35		
20	16QAM	1	0	16.35	16.37	16.27		
20	16QAM	1	49	16.21	16.31	16.22	18	0
20	16QAM	1	99	16.35	16.46	16.39		
20	16QAM	50	0	16.33	16.30	16.37		
20	16QAM							



Band 12 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.70	22.72	22.74			
10	QPSK	1	25	22.55	22.66	22.49		24	0
10	QPSK	1	49	22.65	22.67	22.62			
10	QPSK	25	0	21.59	21.82	21.68			
10	QPSK	25	12	21.53	21.54	21.58		23	1
10	QPSK	25	25	21.71	21.73	21.55			
10	QPSK	50	0	21.49	21.69	21.54			
10	16QAM	1	0	21.82	22.02	22.01			
10	16QAM	1	25	21.64	21.76	21.76		23	1
10	16QAM	1	49	21.74	21.91	21.88			
10	16QAM	25	0	20.64	20.88	20.71			
10	16QAM	25	12	20.60	20.60	20.69		22	2
10	16QAM	25	25	20.59	20.71	20.45			
10	16QAM	50	0	20.58	20.66	20.42			
10	64QAM	1	0	20.70	20.98	20.95			
10	64QAM	1	25	20.53	20.68	20.84		22	2
10	64QAM	1	49	20.66	20.85	20.80			
10	64QAM	25	0	19.60	19.88	19.69			
10	64QAM	25	12	19.56	19.64	19.64		21	3
10	64QAM	25	25	19.51	19.77	19.56			
10	64QAM	50	0	19.47	19.60	19.33			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.51	22.68	22.51			
5	QPSK	1	12	22.53	22.46	22.29		24	0
5	QPSK	1	24	22.49	22.50	22.46			
5	QPSK	12	0	21.35	21.71	21.51			
5	QPSK	12	7	21.45	21.37	21.36		23	1
5	QPSK	12	13	21.65	21.72	21.51			
5	QPSK	25	0	21.41	21.60	21.37			
5	16QAM	1	0	21.73	21.87	21.87			
5	16QAM	1	12	21.54	21.76	21.57		23	1
5	16QAM	1	24	21.71	21.76	21.85			
5	16QAM	12	0	20.61	20.85	20.51			
5	16QAM	12	7	20.56	20.40	20.62		22	2
5	16QAM	12	13	20.53	20.55	20.39			
5	16QAM	25	0	20.37	20.52	20.19			
5	64QAM	1	0	20.45	20.85	20.79			
5	64QAM	1	12	20.48	20.60	20.75		22	2
5	64QAM	1	24	20.63	20.73	20.79			
5	64QAM	12	0	19.43	19.83	19.54			
5	64QAM	12	7	19.51	19.46	19.46		21	3
5	64QAM	12	13	19.39	19.58	19.58			
5	64QAM	25	0	19.34	19.39	19.26			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.57	22.64	22.80			
3	QPSK	1	8	22.48	22.45	22.34		24	0
3	QPSK	1	14	22.52	22.49	22.49			
3	QPSK	8	0	21.39	21.79	21.65			
3	QPSK	8	4	21.50	21.31	21.54		23	1
3	QPSK	8	7	21.67	21.54	21.53			
3	QPSK	15	0	21.29	21.53	21.30			
3	16QAM	1	0	21.66	21.79	21.65		23	1
3	16QAM	1	8	21.47	21.76	21.58			
3	16QAM	1	14	21.69	21.85	21.78			
3	16QAM	8	0	20.53	20.61	20.51		22	2
3	16QAM	8	4	20.37	20.58	20.60			
3	16QAM	8	7	20.49	20.46	20.42			
3	16QAM	15	0	20.51	20.57	20.31			
3	64QAM	1	0	20.53	20.86	20.76		22	2
3	64QAM	1	8	20.48	20.51	20.72			
3	64QAM	1	14	20.62	20.70	20.60			
3	64QAM	8	0	19.41	19.83	19.48			
3	64QAM	8	4	19.49	19.54	19.40		21	3
3	64QAM	8	7	19.42	19.74	19.53			
3	64QAM	15	0	19.36	19.58	19.23			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.41	22.66	22.48			
1.4	QPSK	1	3	22.33	22.39	22.25		24	0
1.4	QPSK	1	5	22.46	22.44	22.28			
1.4	QPSK	3	0	22.37	22.65	22.46			
1.4	QPSK	3	1	22.46	22.31	22.15			
1.4	QPSK	3	3	22.31	22.40	22.51		23	1
1.4	QPSK	6	0	21.46	21.83	21.42			
1.4	16QAM	1	0	21.77	21.78	21.83			
1.4	16QAM	1	3	21.59	21.63	21.64		23	1
1.4	16QAM	1	5	21.56	21.79	21.79			
1.4	16QAM	3	0	21.75	21.76	21.85			
1.4	16QAM	3	1	21.50	21.41	21.83			
1.4	16QAM	3	3	21.42	21.78	21.69			
1.4	16QAM	6	0	20.54	20.72	20.88		22	2
1.4	64QAM	1	0	20.60	20.76	20.70			
1.4	64QAM	1	3	20.40	20.59	20.62			
1.4	64QAM	1	5	20.56	20.75	20.67		22	2
1.4	64QAM	3	0	20.55	20.67	20.59			
1.4	64QAM	3	1	20.26	20.37	20.46			
1.4	64QAM	3	3	20.43	20.74	20.67			
1.4	64QAM	6	0	19.38	19.59	19.15		21	3

Band 13 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.75	22.75	22.75			
10	QPSK	1	25	22.70	22.70	22.70		24	0
10	QPSK	1	49	22.73	22.73	22.73			
10	QPSK	25	0	21.57	21.57	21.57			
10	QPSK	25	12	21.51	21.51	21.51		23	1
10	QPSK	25	25	21.54	21.54	21.54			
10	QPSK	50	0	21.76	21.76	21.76			
10	16QAM	1	0	21.93	21.93	21.93			
10	16QAM	1	25	21.83	21.83	21.83		23	1
10	16QAM	1	49	21.89	21.89	21.89			
10	16QAM	25	0	20.59	20.59	20.59			
10	16QAM	25	12	20.41	20.41	20.41		22	2
10	16QAM	25	25	20.53	20.53	20.53			
10	16QAM	50	0	20.73	20.73	20.73			
10	64QAM	1	0	20.87	20.87	20.87			
10	64QAM	1	25	20.61	20.61	20.61		22	2
10	64QAM	1	49	20.70	20.70	20.70			
10	64QAM	25	0	19.59	19.59	19.59			
10	64QAM	25	12	19.63	19.63	19.63		21	3
10	64QAM	25	25	19.56	19.56	19.56			
10	64QAM	50	0	19.72	19.72	19.72			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.64	22.73	22.72			
5	QPSK	1	12	22.68	22.62	22.63		24	0
5	QPSK	1	24	22.74	22.74	22.67			
5	QPSK	12	0	21.54	21.57	21.42			
5	QPSK	12	7	21.50	21.46	21.35		23	1
5	QPSK	12	13	21.51	21.34	21.47			
5	QPSK	25	0	21.76	21.56	21.59			
5	16QAM	1	0	21.87	21.85	21.82			
5	16QAM	1	12	21.69	21.76	21.85		23	1
5	16QAM	1	24	21.89	21.88	21.81			
5	16QAM	12	0	20.51	20.42	20.58			
5	16QAM	12	7	20.38	20.40	20.21		22	2
5	16QAM	12	13	20.47	20.39	20.37			
5	16QAM	25	0	20.72	20.63	20.53			
5	64QAM	1	0	20.73	20.71	20.70			
5	64QAM	1	12	20.41	20.62	20.63		22	2
5	64QAM	1	24	20.61	20.70	20.62			
5	64QAM	12	0	19.46	19.55	19.56			
5	64QAM	12	7	19.51	19.45	19.59		21	3
5	64QAM	12	13	19.47	19.51	19.42			
5	64QAM	25	0	19.56	19.53	19.66			

Band 14 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.77	22.77	22.77			
10	QPSK	1	25	22.75	22.75	22.75		24	0
10	QPSK	1	49	22.70	22.70	22.70			
10	QPSK	25	0	21.80	21.80	21.80			
10	QPSK	25	12						



Band 17 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				23780	23790	23800			
710				710	710	710			
10	QPSK	1	0	22.80	22.89	22.84			
10	QPSK	1	25	22.48	22.64	22.53		24	0
10	QPSK	1	49	22.49	22.58	22.45			
10	QPSK	25	0	21.70	21.89	21.85			
10	QPSK	25	12	21.72	21.82	21.79		23	1
10	QPSK	25	25	21.61	21.79	21.60			
10	QPSK	50	0	21.68	21.89	21.82			
10	16QAM	1	0	21.86	21.97	21.80			
10	16QAM	1	49	21.69	21.72	21.73		23	1
10	16QAM	1	49	21.75	21.70	21.71			
10	16QAM	25	0	20.64	20.93	20.93			
10	16QAM	25	12	20.74	20.73	20.82			2
10	16QAM	25	25	20.69	20.89	20.88			
10	16QAM	50	0	20.78	20.90	20.86			
10	64QAM	1	0	20.90	20.96	20.89			
10	64QAM	1	25	20.80	20.75	20.84		22	2
10	64QAM	1	49	20.84	20.82	20.88			
10	64QAM	25	0	19.88	19.85	19.98			
10	64QAM	25	12	19.91	19.84	19.88			
10	64QAM	25	25	19.77	19.93	19.99		21	3
10	64QAM	50	0	19.89	19.87	19.84			
Channel									
Frequency (MHz)				23755	23790	23825			
706.5				710	713.5				
5	QPSK	1	0	22.48	22.61	22.64			
5	QPSK	1	12	22.31	22.49	22.50		24	0
5	QPSK	1	24	22.27	22.39	22.37			
5	QPSK	12	0	21.52	21.86	21.64			
5	QPSK	12	7	21.51	21.60	21.66			
5	QPSK	12	13	21.40	21.76	21.80		23	1
5	QPSK	25	0	21.70	21.83	21.85			
5	16QAM	1	0	21.77	21.86	21.75			
5	16QAM	1	12	21.64	21.70	21.53		23	1
5	16QAM	1	24	21.60	21.69	21.61			
5	16QAM	12	0	20.43	20.87	20.91			
5	16QAM	12	7	20.76	20.54	20.76			
5	16QAM	12	13	20.71	20.80	20.54		22	2
5	16QAM	25	0	20.77	20.81	20.79			
5	64QAM	1	0	20.74	20.90	20.85			
5	64QAM	1	12	20.60	20.70	20.81		22	2
5	64QAM	1	24	20.83	20.64	20.66			
5	64QAM	12	0	19.70	19.67	19.94			
5	64QAM	12	7	19.78	19.85	19.56			
5	64QAM	12	13	19.63	19.85	19.58		21	3
5	64QAM	25	0	19.75	19.80	19.62			

Band 25 Ant0 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				26140	26340	26590			
1850				1850	1850	1850			
20	QPSK	1	0	13.59	13.80	13.73			
20	QPSK	1	49	13.58	13.80	13.71		15	0
20	QPSK	1	99	13.62	13.74	13.66			
20	QPSK	50	0	13.69	13.77	13.76			
20	QPSK	50	24	13.58	13.73	13.76		15	0
20	QPSK	50	50	13.56	13.76	13.75			
20	QPSK	100	0	13.59	13.84	13.75			
20	16QAM	1	0	13.58	13.72	13.76			
20	16QAM	1	49	13.54	13.75	13.73		15	0
20	16QAM	1	99	13.56	13.72	13.64			
20	16QAM	50	0	13.60	13.73	13.83			
20	16QAM	50	24	13.65	13.82	13.76		15	0
20	16QAM	50	50	13.59	13.74	13.81			
20	16QAM	100	0	13.68	13.79	13.71			
20	64QAM	1	0	13.61	13.78	13.65			
20	64QAM	1	49	13.59	13.78	13.68		15	0
20	64QAM	1	99	13.64	13.75	13.73			
20	64QAM	50	0	13.59	13.72	13.64			
20	64QAM	50	24	13.58	13.82	13.72		15	0
20	64QAM	50	50	13.64	13.75	13.71			
20	64QAM	100	0	13.66	13.76	13.63			
Channel									
Frequency (MHz)				26115	26340	26615			
1857.5				1880	1907.5				
15	QPSK	1	0	13.59	13.72	13.58			
15	QPSK	1	37	13.51	13.66	13.57		15	0
15	QPSK	1	74	13.56	13.63	13.62			
15	QPSK	36	0	13.56	13.80	13.73			
15	QPSK	36	20	13.54	13.64	13.72		15	0
15	QPSK	36	39	13.44	13.62	13.71			
15	QPSK	75	0	13.52	13.69	13.68			
15	16QAM	1	0	13.55	13.58	13.70			
15	16QAM	1	37	13.46	13.72	13.72		15	0
15	16QAM	1	74	13.43	13.69	13.64			
15	16QAM	36	0	13.54	13.59	13.66			
15	16QAM	36	20	13.50	13.80	13.66		15	0
15	16QAM	36	39	13.52	13.62	13.58			
15	16QAM	75	0	13.63	13.70	13.57			
15	64QAM	1	0	13.54	13.66	13.53			
15	64QAM	1	37	13.45	13.68	13.64		15	0
15	64QAM	1	74	13.50	13.69	13.69			
15	64QAM	36	0	13.55	13.67	13.52			
15	64QAM	36	20	13.50	13.78	13.60		15	0
15	64QAM	36	39	13.48	13.68	13.64			
15	64QAM	75	0	13.61	13.64	13.51			
Channel									
Frequency (MHz)				26090	26340	26540			
1855				1880	1910				
10	QPSK	1	0	13.53	13.80	13.58			
10	QPSK	1	25	13.47	13.71	13.66		15	0
10	QPSK	1	49	13.46	13.70	13.57			
10	QPSK	25	0	13.62	13.70	13.65			
10	QPSK	25	12	13.42	13.66	13.67		15	0
10	QPSK	25	25	13.43	13.64	13.63			
10	QPSK	50	0	13.51	13.73	13.71			
10	16QAM	1	0	13.49	13.59	13.64			
10	16QAM	1	25	13.40	13.65	13.64		15	0
10	16QAM	1	49	13.51	13.79	13.54			
10	16QAM	25	0	13.51	13.69	13.72			
10	16QAM	25	12	13.51	13.79	13.63		15	0
10	16QAM	25	25	13.43	13.64	13.73			
10	16QAM	50	0	13.57	13.65	13.58			
10	64QAM	1	0	13.58	13.73	13.58		15	0
10	64QAM	1	25	13.53	13.61	13.63			
10	64QAM	1	49	13.58	13.62	13.59			
10	64QAM	25	0	13.55	13.66	13.56			
10	64QAM	25	12	13.53	13.65	13.56		15	0
10	64QAM	25	25	13.51	13.71	13.54			
10	64QAM	50	0	13.58	13.61	13.49			
Channel									
Frequency (MHz)				26065	26340	26665			
1852.5				1880	1912.5				
5	QPSK	1	0	13.59	13.73	13.61			
5	QPSK	1	12	13.50	13.72	13.83		15	0
5	QPSK	1	24	13.51	13.64	13.54			
5	QPSK	12	0	13.59	13.66	13.66			
5	QPSK	12	7	13.52	13.66	13.61		15	0
5	QPSK	12	13	13.43	13.58	13.66			
5	QPSK	25	0	13.43	13.73	13.63			
5	16QAM	1	0	13.50	13.67	13.71			
5	16QAM	1	12	13.40	13.73	13.64		15	0
5	16QAM	1	24	13.51	13.76	13.60			
5	16QAM	12	0	13.53	13.65	13.60			
5	16QAM	12	7	13.59	13.79	13.62		15	0
5	16QAM	12	13	13.48	13.66	13.76			
5	16QAM	25	0	13.54	13.68	13.65			
5	64QAM	1	0	13.56	13.70	13.57			
5	64QAM	1	12	13.43	13.74	13.56		15	0
5	64QAM	1	24	13.59	13.63	13.58			
5	64QAM	12	0	13.47	13.65	13.61			
5	64QAM	12	7	13.53	13.66	13.61		15	0
5	64QAM	12	13	13.51	13.60	13.62			
5									



Band 66 Ant0 EC13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	16.41	16.57	16.43	18	0	
20	QPSK	1	49	16.31	16.45	16.38			
20	QPSK	1	99	16.32	16.48	16.33			
20	QPSK	50	0	16.52	16.54	16.42			
20	QPSK	50	24	16.38	16.50	16.33			
20	QPSK	50	50	16.32	16.46	16.29			
20	QPSK	100	0	16.44	16.49	16.47			
20	16QAM	1	0	16.37	16.40	16.35			
20	16QAM	1	49	16.21	16.46	16.28			
20	16QAM	1	99	16.52	16.51	16.41			
20	16QAM	50	0	16.33	16.43	16.35			
20	16QAM	50	24	16.28	16.43	16.32			
20	16QAM	50	50	16.43	16.49	16.37			
20	16QAM	100	0	16.35	16.47	16.33			
20	64QAM	1	0	16.33	16.35	16.32			
20	64QAM	1	49	16.48	16.48	16.36			
20	64QAM	1	99	16.37	16.37	16.32			
20	64QAM	50	0	16.25	16.40	16.25			
20	64QAM	50	24	16.48	16.45	16.44			
20	64QAM	50	50	16.30	16.50	16.33			
20	64QAM	100	0	16.25	16.40	16.27			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	16.48	16.54	16.44	18	0	
15	QPSK	1	37	16.30	16.48	16.33			
15	QPSK	1	74	16.23	16.47	16.27			
15	QPSK	36	0	16.52	16.52	16.46			
15	QPSK	36	20	16.29	16.46	16.33			
15	QPSK	36	39	16.34	16.42	16.31			
15	QPSK	75	0	16.49	16.52	16.39			
15	16QAM	1	0	16.39	16.40	16.38			
15	16QAM	1	37	16.33	16.45	16.26			
15	16QAM	1	74	16.49	16.48	16.44			
15	16QAM	36	0	16.43	16.41	16.38			
15	16QAM	36	20	16.30	16.41	16.22			
15	16QAM	36	39	16.41	16.45	16.43			
15	16QAM	75	0	16.34	16.45	16.29			
15	64QAM	1	0	16.30	16.44	16.33			
15	64QAM	1	37	16.39	16.43	16.34			
15	64QAM	1	74	16.32	16.40	16.36			
15	64QAM	36	0	16.32	16.47	16.31			
15	64QAM	36	20	16.41	16.51	16.42			
15	64QAM	36	39	16.36	16.46	16.36			
15	64QAM	75	0	16.30	16.35	16.35			
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	16.47	16.43	16.39	18	0	
10	QPSK	1	25	16.37	16.51	16.29			
10	QPSK	1	49	16.30	16.38	16.33			
10	QPSK	25	0	16.47	16.45	16.35			
10	QPSK	25	12	16.38	16.49	16.32			
10	QPSK	25	25	16.28	16.37	16.34			
10	QPSK	50	0	16.49	16.50	16.45			
10	16QAM	1	0	16.32	16.40	16.39			
10	16QAM	1	25	16.31	16.37	16.31			
10	16QAM	1	49	16.46	16.44	16.40			
10	16QAM	25	0	16.39	16.43	16.33			
10	16QAM	25	12	16.22	16.41	16.32			
10	16QAM	25	25	16.49	16.54	16.42			
10	16QAM	50	0	16.42	16.48	16.37			
10	64QAM	1	0	16.24	16.43	16.30			
10	64QAM	1	25	16.50	16.56	16.44			
10	64QAM	1	49	16.42	16.48	16.33			
10	64QAM	25	0	16.29	16.39	16.32			
10	64QAM	25	12	16.46	16.52	16.36			
10	64QAM	25	25	16.29	16.45	16.28			
10	64QAM	50	0	16.25	16.44	16.33			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	16.51	16.48	16.44	18	0	
5	QPSK	1	12	16.42	16.47	16.33			
5	QPSK	1	24	16.30	16.37	16.33			
5	QPSK	12	0	16.52	16.46	16.46			
5	QPSK	12	7	16.30	16.43	16.33			
5	QPSK	12	13	16.25	16.42	16.32			
5	QPSK	25	0	16.47	16.43	16.37			
5	16QAM	1	0	16.31	16.39	16.38			
5	16QAM	1	12	16.32	16.42	16.24			
5	16QAM	1	24	16.41	16.46	16.44			
5	16QAM	12	0	16.39	16.38	16.28			
5	16QAM	12	7	16.24	16.40	16.34			
5	16QAM	12	13	16.46	16.46	16.42			
5	16QAM	25	0	16.41	16.39	16.27			
5	64QAM	1	0	16.32	16.37	16.27			
5	64QAM	1	12	16.39	16.43	16.39			
5	64QAM	1	24	16.31	16.39	16.34			
5	64QAM	12	0	16.32	16.42	16.31			
5	64QAM	12	7	16.43	16.45	16.43			
5	64QAM	12	13	16.30	16.42	16.33			
5	64QAM	25	0	16.32	16.48	16.34			
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	16.41	16.42	16.45	18	0	
3	QPSK	1	8	16.39	16.41	16.26			
3	QPSK	1	14	16.26	16.36	16.25			
3	QPSK	8	0	16.50	16.52	16.42			
3	QPSK	8	4	16.37	16.44	16.31			
3	QPSK	8	7	16.33	16.39	16.34			
3	QPSK	15	0	16.42	16.51	16.35			
3	16QAM	1	0	16.42	16.50	16.40			
3	16QAM	1	8	16.25	16.44	16.23			
3	16QAM	1	14	16.40	16.47	16.38			
3	16QAM	8	0	16.31	16.41	16.27			
3	16QAM	8	4	16.27	16.47	16.33			
3	16QAM	8	7	16.40	16.55	16.43			
3	16QAM	15	0	16.37	16.40	16.37			
3	64QAM	1	0	16.22	16.47	16.24			
3	64QAM	1	8	16.48	16.53	16.37			
3	64QAM	1	14	16.38	16.41	16.27			
3	64QAM	8	0	16.35	16.39	16.27			
3	64QAM	8	4	16.42	16.44	16.45			
3	64QAM	8	7	16.33	16.48	16.29			
3	64QAM	15	0	16.24	16.38	16.33			
Channel				131979	132322	132669			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	16.49	16.49	16.35	18	0	
1.4	QPSK	1	3	16.30	16.52	16.33			
1.4	QPSK	1	5	16.30	16.35	16.31			
1.4	QPSK	3	0	16.52	16.45	16.47			
1.4	QPSK	3	1	16.35	16.38	16.36			
1.4	QPSK	3	3	16.24	16.48	16.35			
1.4	QPSK	6	0	16.46	16.50	16.35			
1.4	16QAM	1	0	16.33	16.43	16.40			
1.4	16QAM	1	3	16.21	16.41	16.26			
1.4	16QAM	1	5	16.47	16.52	16.47			
1.4	16QAM	3	0	16.42	16.44	16.38			
1.4	16QAM	3	1	16.33	16.48	16.36			
1.4	16QAM	3	3	16.49	16.55	16.38			
1.4	16QAM	6	0	16.41	16.46	16.32			
1.4	64QAM	1	0	16.26	16.37	16.23			
1.4	64QAM	1	3	16.44	16.46	16.34			
1.4	64QAM	1	5	16.33	16.51	16.30			
1.4	64QAM	3	0	16.33	16.43	16.33			
1.4	64QAM	3	1	16.45	16.48	16.40			
1.4	64QAM	3	3	16.32	16.47	16.36			
1.4	64QAM	6	0	16.23	16.38	16.30			

Band 71 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				133222	133322	133372			
Frequency (MHz)				1727	1742	1758			
20	QPSK</								



Band 7 Ant1 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	16.37	16.60	16.16	18	0	
20	QPSK	1	49	16.42	16.54	16.15			
20	QPSK	1	99	16.33	16.50	16.42			
20	QPSK	50	0	16.36	16.59	16.10	18	0	
20	QPSK	50	24	16.37	16.57	16.33			
20	QPSK	50	50	16.30	16.49	16.10			
20	QPSK	100	0	16.47	16.56	16.14	18	0	
20	16QAM	1	0	16.34	16.57	16.13			
20	16QAM	1	49	16.32	16.52	16.13			
20	16QAM	1	99	16.45	16.45	16.10	18	0	
20	16QAM	50	0	16.34	16.58	16.10			
20	16QAM	50	24	16.26	16.41	16.35			
20	16QAM	50	50	16.46	16.57	16.16	18	0	
20	16QAM	100	0	16.33	16.54	16.08			
20	64QAM	1	0	16.36	16.43	16.31			
20	64QAM	1	49	16.43	16.53	16.16	18	0	
20	64QAM	1	99	16.39	16.56	16.11			
20	64QAM	50	0	16.36	16.55	16.12			
20	64QAM	50	24	16.40	16.49	16.10	18	0	
20	64QAM	50	50	16.29	16.58	16.13			
20	64QAM	100	0	16.28	16.53	16.14			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	16.48	16.52	16.06	18	0	
15	QPSK	1	37	16.35	16.47	16.14			
15	QPSK	1	74	16.29	16.49	16.15			
15	QPSK	36	0	16.41	16.50	16.18	18	0	
15	QPSK	36	20	16.40	16.56	16.39			
15	QPSK	36	39	16.32	16.41	16.33			
15	QPSK	75	0	16.45	16.49	16.12	18	0	
15	16QAM	1	0	16.36	16.50	16.32			
15	16QAM	1	37	16.30	16.47	16.12			
15	16QAM	1	74	16.46	16.55	16.17	18	0	
15	16QAM	36	0	16.40	16.49	16.37			
15	16QAM	36	20	16.33	16.42	16.10			
15	16QAM	36	39	16.47	16.58	16.09	18	0	
15	16QAM	75	0	16.30	16.49	16.07			
15	64QAM	1	0	16.26	16.46	16.05			
15	64QAM	1	37	16.41	16.48	16.12	18	0	
15	64QAM	1	74	16.39	16.53	16.11			
15	64QAM	36	0	16.33	16.46	16.14			
15	64QAM	36	20	16.36	16.58	16.17	18	0	
15	64QAM	36	39	16.42	16.49	16.37			
15	64QAM	75	0	16.35	16.41	16.08			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	16.37	16.52	16.12	18	0	
10	QPSK	1	25	16.35	16.46	16.06			
10	QPSK	1	49	16.25	16.47	16.06			
10	QPSK	25	0	16.39	16.57	16.17	18	0	
10	QPSK	25	12	16.42	16.48	16.36			
10	QPSK	25	25	16.25	16.47	16.11			
10	QPSK	50	0	16.42	16.59	16.36	18	0	
10	16QAM	1	0	16.36	16.56	16.15			
10	16QAM	1	25	16.35	16.52	16.12			
10	16QAM	1	49	16.38	16.54	16.11	18	0	
10	16QAM	25	0	16.42	16.55	16.06			
10	16QAM	25	12	16.29	16.48	16.07			
10	16QAM	25	25	16.47	16.51	16.09	18	0	
10	16QAM	50	0	16.39	16.47	16.09			
10	64QAM	1	0	16.25	16.55	16.11			
10	64QAM	1	25	16.46	16.56	16.18	18	0	
10	64QAM	1	49	16.41	16.54	16.09			
10	64QAM	25	0	16.25	16.55	16.08			
10	64QAM	25	12	16.48	16.50	16.12	18	0	
10	64QAM	25	25	16.42	16.51	16.12			
10	64QAM	50	0	16.25	16.46	16.09			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	16.47	16.49	16.35	18	0	
5	QPSK	1	12	16.43	16.55	16.32			
5	QPSK	1	24	16.36	16.53	16.38			
5	QPSK	12	0	16.48	16.56	16.36	18	0	
5	QPSK	12	7	16.39	16.49	16.36			
5	QPSK	12	13	16.32	16.45	16.07			
5	QPSK	25	0	16.43	16.51	16.09	18	0	
5	16QAM	1	0	16.37	16.50	16.12			
5	16QAM	1	12	16.34	16.48	16.11			
5	16QAM	1	24	16.47	16.55	16.15	18	0	
5	16QAM	12	0	16.42	16.46	16.14			
5	16QAM	12	7	16.23	16.48	16.14			
5	16QAM	12	13	16.43	16.50	16.17	18	0	
5	16QAM	25	0	16.42	16.54	16.33			
5	64QAM	1	0	16.29	16.44	16.39			
5	64QAM	1	12	16.35	16.59	16.13	18	0	
5	64QAM	1	24	16.38	16.56	16.11			
5	64QAM	12	0	16.36	16.53	16.13			
5	64QAM	12	7	16.42	16.54	16.09	18	0	
5	64QAM	12	13	16.30	16.44	16.06			
5	64QAM	25	0	16.29	16.46	16.11			

Band 30 Ant1 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
10	QPSK	1	0	17.88	17.85		19.5	0	
10	QPSK	1	25	17.85					
10	QPSK	1	49	17.76					
10	QPSK	25	0	17.87	17.87		19.5	0	
10	QPSK	25	12	17.75					
10	QPSK	25	25	17.80					
10	QPSK	50	0	17.85	17.85		19.5	0	
10	16QAM	1	0	17.81					
10	16QAM	1	25	17.76					
10	16QAM	1	49	17.79	17.79		19.5	0	
10	16QAM	25	0	17.77					
10	16QAM	25	12	17.79					
10	16QAM	25	25	17.81			19.5	0	
10	16QAM	50	0	17.85					
10	64QAM	1	0	17.84					
10	64QAM	1	25	17.80	17.80		19.5	0	
10	64QAM	1	49	17.79					
10	64QAM	25	0	17.81					
10	64QAM	25	12	17.84			19.5	0	
10	64QAM	25	25	17.78					
10	64QAM	50	0	17.72					
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	17.74	17.81	17.82	19.5	0	
5	QPSK	1	12	17.80	17.77	17.71			
5	QPSK	1	24	17.72	17.61	17.70			
5	QPSK	12	0	17.76	17.85	17.69	19.5	0	
5	QPSK	12	7	17.79	17.68	17.74			
5	QPSK	12	13	17.77	17.71	17.64			
5	QPSK	25	0	17.80	17.82	17.65	19.5	0	
5	16QAM	1	0	17.68	17.77	17.67			
5	16QAM	1	12	17.66	17.66	17.67			
5	16QAM	1	24	17.77	17.76	17.63	19.5	0	
5	16QAM	12	0	17.68	17.71	17.73			
5	16QAM	12	7	17.78	17.68	17.61			
5	16QAM	12	13	17.76	17.82	17.69	19.5	0	
5	16QAM	25	0	17.74	17.77	17.75			
5	64QAM	1	0	17.72	17.66	17.71			
5	64QAM	1	12	17.74	17.82	17.68	19.5	0	
5	64QAM	1	24	17.71	17.78	17.71			
5	64QAM	12	0	17.75	17.64	17.59			
5	64QAM	12	7	17.80	17.79	17.66	19.5	0	
5	64QAM	12	13	17.80	17.75	17.67			
5	64QAM	25	0	17.74	17.68	17.69			



Band 38 Ant1 EC13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Tune-up [dBm]	MFR [dB]		
Channel										
Frequency [MHz]				37650	38000	38150				
20	QPSK	1	0	19.37	19.42	19.24	20	0		
20	QPSK	1	49	19.27	19.35	19.20	20	0		
20	QPSK	1	99	19.21	19.28	19.28	20	0		
20	QPSK	50	0	19.33	19.44	19.20	20	0		
20	QPSK	50	24	19.31	19.34	19.26	20	0		
20	QPSK	50	49	19.28	19.35	19.15	20	0		
20	QPSK	100	0	19.30	19.37	19.28	20	0		
20	15QAM	1	0	19.26	19.29	19.20	20	0		
20	15QAM	1	49	19.33	19.38	19.15	20	0		
20	15QAM	1	99	19.31	19.31	19.25	20	0		
20	15QAM	50	0	19.35	19.38	19.18	20	0		
20	15QAM	50	24	19.25	19.28	19.28	20	0		
20	15QAM	50	49	19.34	19.35	19.31	20	0		
20	15QAM	100	0	19.34	19.40	19.28	20	0		
20	15QAM	100	0	19.29	19.34	19.25	20	0		
20	15QAM	100	49	19.32	19.35	19.30	20	0		
20	15QAM	100	49	19.33	19.38	19.27	20	0		
20	15QAM	100	99	19.35	19.34	19.26	20	0		
20	15QAM	50	0	19.28	19.35	19.30	20	0		
20	15QAM	50	24	19.35	19.32	19.30	20	0		
20	15QAM	50	49	19.34	19.29	19.28	20	0		
20	15QAM	100	0	19.28	19.33	19.18	20	0		
Channel										
Frequency [MHz]				37625	38000	38175				
15	QPSK	1	0	19.37	19.35	19.20	20	0		
15	QPSK	1	37	19.24	19.24	19.24	20	0		
15	QPSK	1	74	19.33	19.28	19.25	20	0		
15	QPSK	38	0	19.28	19.38	19.30	20	0		
15	QPSK	38	39	19.31	19.29	19.21	20	0		
15	QPSK	38	76	19.29	19.27	19.22	20	0		
15	QPSK	75	0	19.33	19.37	19.23	20	0		
15	15QAM	1	0	19.29	19.40	19.24	20	0		
15	15QAM	1	37	19.35	19.37	19.21	20	0		
15	15QAM	1	74	19.34	19.40	19.30	20	0		
15	15QAM	38	0	19.35	19.31	19.24	20	0		
15	15QAM	38	20	19.32	19.27	19.28	20	0		
15	15QAM	38	39	19.38	19.37	19.21	20	0		
15	15QAM	75	0	19.33	19.37	19.21	20	0		
15	15QAM	1	0	19.35	19.29	19.15	20	0		
15	15QAM	1	37	19.30	19.31	19.23	20	0		
15	15QAM	1	74	19.26	19.31	19.23	20	0		
15	15QAM	38	0	19.33	19.28	19.22	20	0		
15	15QAM	38	20	19.35	19.41	19.28	20	0		
15	15QAM	38	39	19.25	19.28	19.22	20	0		
15	15QAM	75	0	19.31	19.36	19.22	20	0		
15	15QAM	1	0	19.35	19.30	19.22	20	0		
15	15QAM	1	37	19.30	19.30	19.22	20	0		
15	15QAM	1	74	19.26	19.31	19.23	20	0		
15	15QAM	38	0	19.33	19.28	19.22	20	0		
15	15QAM	38	20	19.35	19.41	19.28	20	0		
15	15QAM	38	39	19.25	19.28	19.22	20	0		
15	15QAM	75	0	19.31	19.36	19.22	20	0		
Channel										
Frequency [MHz]				37675	38000	38175				
5	QPSK	1	0	19.28	19.33	19.21	20	0		
5	QPSK	1	25	19.36	19.30	19.20	20	0		
5	QPSK	1	49	19.28	19.34	19.21	20	0		
5	QPSK	25	0	19.32	19.31	19.31	20	0		
5	QPSK	25	12	19.32	19.40	19.20	20	0		
5	QPSK	25	25	19.27	19.26	19.21	20	0		
5	QPSK	50	0	19.34	19.31	19.27	20	0		
5	15QAM	1	0	19.35	19.38	19.27	20	0		
5	15QAM	1	25	19.22	19.31	19.22	20	0		
5	15QAM	1	49	19.22	19.41	19.20	20	0		
5	15QAM	25	0	19.34	19.28	19.20	20	0		
5	15QAM	25	12	19.31	19.42	19.24	20	0		
5	15QAM	25	25	19.30	19.42	19.24	20	0		
5	15QAM	50	0	19.35	19.41	19.30	20	0		
5	15QAM	1	0	19.25	19.33	19.23	20	0		
5	15QAM	1	25	19.28	19.37	19.33	20	0		
5	15QAM	1	49	19.28	19.37	19.23	20	0		
5	15QAM	25	0	19.35	19.32	19.28	20	0		
5	15QAM	25	12	19.38	19.38	19.19	20	0		
5	15QAM	25	25	19.36	19.28	19.20	20	0		
5	15QAM	50	0	19.25	19.25	19.28	20	0		
Channel										
Frequency [MHz]				37675	38000	38225				
5	QPSK	1	0	19.28	19.33	19.21	20	0		
5	QPSK	1	12	19.35	19.38	19.20	20	0		
5	QPSK	1	24	19.35	19.41	19.24	20	0		
5	QPSK	12	0	19.32	19.31	19.24	20	0		
5	QPSK	12	7	19.31	19.34	19.28	20	0		
5	QPSK	12	14	19.34	19.29	19.25	20	0		
5	QPSK	24	0	19.31	19.38	19.27	20	0		
5	15QAM	1	0	19.33	19.38	19.28	20	0		
5	15QAM	1	12	19.22	19.23	19.22	20	0		
5	15QAM	1	24	19.31	19.28	19.20	20	0		
5	15QAM	12	0	19.30	19.28	19.28	20	0		
5	15QAM	12	7	19.23	19.27	19.20	20	0		
5	15QAM	12	14	19.28	19.38	19.25	20	0		
5	15QAM	24	0	19.35	19.35	19.17	20	0		
5	15QAM	1	0	19.35	19.38	19.20	20	0		
5	15QAM	1	12	19.33	19.38	19.20	20	0		
5	15QAM	1	24	19.36	19.34	19.48	20	0		
5	15QAM	12	0	19.23	19.37	19.17	20	0		
5	15QAM	12	7	19.33	19.42	19.19	20	0		
5	15QAM	12	14	19.30	19.33	19.30	20	0		
5	15QAM	24	0	19.32	19.26	19.18	20	0		

Band 41 Ant1 EC13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Tune-up [dBm]	MFR [dB]		
Channel										
Frequency [MHz]				39750	40185	40620	41055	41490		
20	QPSK	1	0	19.34	19.47	19.37	19.54	19.34	21	0
20	QPSK	1	49	19.27	19.39	19.59	19.47	19.36	21	0
20	QPSK	1	99	19.26	19.41	19.48	19.37	19.26	21	0
20	QPSK	50	0	19.43	19.44	19.50	19.52	19.20	21	0
20	QPSK	50	24	19.21	19.31	19.51	19.52	19.34	21	0
20	QPSK	50	49	19.24	19.44	19.54	19.40	19.34	21	0
20	15QAM	1	0	19.47	19.52	19.55	19.48	19.27	21	0
20	15QAM	1	49	19.25	19.43	19.60	19.43	19.28	21	0
20	15QAM	1	99	19.25	19.46	19.59	19.39	19.20	21	0
20	15QAM	50	0	19.28	19.37	19.51	19.40	19.26	21	0
20	15QAM	50	24	19.29	19.35	19.59	19.39	19.19	21	0
20	15QAM	50	49	19.45	19.47	19.62	19.57	19.30	21	0
20	15QAM	100	0	19.25	19.36	19.52	19.39	19.20	21	0
20	15QAM	100	49	19.40	19.47	19.53	19.59	19.28	21	0
20	15QAM	100	49	19.32	19.34	19.54	19.49	19.40	21	0
20	15QAM	50	0	19.32	19.48	19.49	19.41	19.15	21	0
20	15QAM	50	24	19.41	19.45	19.58	19.56	19.39	21	0
20	15QAM	50	49	19.29	19.34	19.63	19.47	19.20	21	0
20	15QAM	100	0	19.29	19.42	19.67	19.31	19.26	21	0
Channel										
Frequency [MHz]				39725	40173	40620	41058	41515		
15	QPSK	1	0	19.36	19.41	19.56	19.49	19.27	21	0
15	QPSK	1	37	19.24	19.30	19.62	19.57	19.33	21	0
15	QPSK	1	74	19.28	19.38	19.55	19.			



Band 41 Ant2 ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.62	16.84	16.96	16.69	16.55	17.5	0
20	QPSK	1	49	16.65	16.85	16.94	16.75	16.61		
20	QPSK	1	99	16.63	16.86	16.91	16.58	16.50	17.5	0
20	QPSK	50	0	16.60	16.94	16.95	16.67	16.56		
20	QPSK	50	24	16.61	16.86	16.82	16.70	16.52	17.5	0
20	QPSK	50	50	16.62	16.68	16.80	16.61	16.53		
20	QPSK	100	0	16.56	16.85	16.93	16.72	16.52	17.5	0
20	16QAM	1	0	16.64	16.87	16.95	16.69	16.54		
20	16QAM	1	49	16.51	16.64	16.91	16.59	16.56	17.5	0
20	16QAM	1	99	16.54	16.93	16.90	16.74	16.55		
20	16QAM	50	0	16.61	16.77	16.88	16.73	16.60	17.5	0
20	16QAM	50	24	16.53	16.64	16.80	16.56	16.62		
20	16QAM	50	50	16.57	16.93	16.86	16.74	16.52	17.5	0
20	16QAM	100	0	16.58	16.84	16.94	16.72	16.55		
20	64QAM	1	0	16.65	16.70	16.84	16.50	16.54	17.5	0
20	64QAM	1	49	16.61	16.91	16.92	16.66	16.55		
20	64QAM	1	99	16.56	16.82	16.92	16.73	16.61	17.5	0
20	64QAM	50	0	16.61	16.64	16.83	16.57	16.60		
20	64QAM	50	24	16.57	16.91	16.92	16.70	16.59	17.5	0
20	64QAM	50	50	16.67	16.81	16.93	16.73	16.62		
20	64QAM	100	0	16.52	16.76	16.81	16.62	16.45		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.65	16.86	16.94	16.75	16.55	22.5	0
15	QPSK	1	37	16.54	16.78	16.88	16.73	16.52		
15	QPSK	1	74	16.54	16.77	16.85	16.51	16.45	22.5	0
15	QPSK	36	0	16.59	16.95	16.87	16.70	16.49		
15	QPSK	36	20	16.55	16.84	16.87	16.54	16.42	22.5	0
15	QPSK	36	39	16.54	16.69	16.92	16.54	16.52		
15	QPSK	75	0	16.68	16.87	16.93	16.67	16.53	22.5	0
15	16QAM	1	0	16.63	16.89	16.93	16.67	16.54		
15	16QAM	1	37	16.64	16.64	16.80	16.61	16.44	22.5	0
15	16QAM	1	74	16.60	16.83	16.91	16.72	16.54		
15	16QAM	36	0	16.59	16.89	16.85	16.71	16.59	22.5	0
15	16QAM	36	20	16.57	16.69	16.91	16.53	16.42		
15	16QAM	36	39	16.56	16.87	16.86	16.76	16.47	22.5	0
15	16QAM	75	0	16.61	16.85	16.92	16.62	16.62		
15	64QAM	1	0	16.55	16.64	16.80	16.57	16.49	22.5	0
15	64QAM	1	37	16.55	16.93	16.86	16.73	16.51		
15	64QAM	1	74	16.59	16.84	16.92	16.67	16.57	22.5	0
15	64QAM	36	0	16.59	16.68	16.86	16.56	16.54		
15	64QAM	36	20	16.60	16.93	16.87	16.73	16.45	22.5	0
15	64QAM	36	39	16.55	16.85	16.86	16.71	16.59		
15	64QAM	75	0	16.61	16.70	16.87	16.53	16.43		
Channel										
Frequency (MHz)				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.67	16.92	16.92	16.65	16.57	17.5	0
10	QPSK	1	25	16.57	16.78	16.85	16.66	16.53		
10	QPSK	1	49	16.62	16.69	16.90	16.56	16.48	17.5	0
10	QPSK	25	0	16.57	16.95	16.95	16.69	16.45		
10	QPSK	25	12	16.56	16.79	16.85	16.67	16.56	17.5	0
10	QPSK	25	25	16.64	16.66	16.89	16.53	16.53		
10	QPSK	50	0	16.67	16.84	16.91	16.65	16.57	17.5	0
10	16QAM	1	0	16.55	16.84	16.85	16.75	16.54		
10	16QAM	1	25	16.60	16.67	16.82	16.59	16.49	17.5	0
10	16QAM	1	49	16.54	16.89	16.93	16.77	16.58		
10	16QAM	25	0	16.55	16.79	16.85	16.66	16.50	17.5	0
10	16QAM	25	12	16.61	16.65	16.88	16.61	16.51		
10	16QAM	25	25	16.64	16.84	16.93	16.72	16.58	17.5	0
10	16QAM	50	0	16.61	16.87	16.93	16.69	16.62		
10	64QAM	1	0	16.59	16.77	16.90	16.54	16.47	17.5	0
10	64QAM	1	25	16.67	16.84	16.91	16.69	16.46		
10	64QAM	1	49	16.66	16.82	16.95	16.65	16.55	17.5	0
10	64QAM	25	0	16.65	16.63	16.82	16.54	16.42		
10	64QAM	25	12	16.66	16.82	16.91	16.72	16.48	17.5	0
10	64QAM	25	25	16.62	16.76	16.83	16.75	16.57		
10	64QAM	50	0	16.63	16.64	16.90	16.51	16.43		
Channel										
Frequency (MHz)				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	16.58	16.93	16.92	16.76	16.57	17.5	0
5	QPSK	1	12	16.63	16.81	16.93	16.66	16.55		
5	QPSK	1	24	16.52	16.71	16.86	16.52	16.47	17.5	0
5	QPSK	12	0	16.61	16.94	16.93	16.65	16.49		
5	QPSK	12	7	16.61	16.85	16.83	16.68	16.58	17.5	0
5	QPSK	12	13	16.61	16.73	16.90	16.50	16.49		
5	QPSK	25	0	16.61	16.84	16.92	16.85	16.58	17.5	0
5	16QAM	1	0	16.66	16.81	16.90	16.73	16.56		
5	16QAM	1	12	16.53	16.74	16.89	16.53	16.48	17.5	0
5	16QAM	1	24	16.61	16.91	16.90	16.66	16.59		
5	16QAM	12	0	16.57	16.85	16.93	16.68	16.63	17.5	0
5	16QAM	12	7	16.56	16.68	16.89	16.60	16.47		
5	16QAM	12	13	16.66	16.88	16.90	16.71	16.51	17.5	0
5	16QAM	25	0	16.64	16.87	16.95	16.70	16.54		
5	64QAM	1	0	16.54	16.72	16.92	16.51	16.49	17.5	0
5	64QAM	1	12	16.54	16.89	16.91	16.69	16.56		
5	64QAM	1	24	16.55	16.82	16.85	16.67	16.57	17.5	0
5	64QAM	12	0	16.58	16.73	16.80	16.56	16.49		
5	64QAM	12	7	16.64	16.89	16.88	16.70	16.50	17.5	0
5	64QAM	12	13	16.59	16.86	16.91	16.67	16.62		
5	64QAM	25	0	16.59	16.69	16.83	16.59	16.54		

Band 41 Ant2 HPUE ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.65	16.67	16.82	16.54	16.51	20.5	0
20	QPSK	1	49	16.42	16.49	16.62	16.57	16.36		
20	QPSK	1	99	16.54	16.55	16.84	16.41	16.36	20.5	0
20	QPSK	50	0	16.61	16.66	16.74	16.60	16.43		
20	QPSK	50	24	16.54	16.57	16.71	16.48	16.41	20.5	0
20	QPSK	50	50	16.54	16.61	16.64	16.33	16.29		
20	QPSK	100	0	16.65	16.74	16.79	16.60	16.44	20.5	0
20	16QAM	1	0	16.47	16.60	16.61	16.45	16.34		
20	16QAM	1	49	16.50	16.53	16.62	16.35	16.31	20.5	0
20	16QAM	1	99	16.66	16.65	16.78	16.58	16.41		
20	16QAM	50	0	16.52	16.51	16.67	16.46	16.44	20.5	0
20	16QAM	50	24	16.54	16.50	16.66	16.41	16.34		
20	16QAM	50	50	16.58	16.69	16.70	16.51	16.39	20.5	0
20	16QAM	100	0	16.48	16.52	16.58	16.46	16.37		
20	64QAM	1	0	16.68	16.55	16.59	16.32	16.44	20.5	0
20	64QAM	1	49	16.64	16.74	16.70	16.61	16.45		
20	64QAM	1	99	16.54	16.58	16.60	16.55	16.42	20.5	0
20	64QAM	50	0	16.57	16.49	16.57	16.42	16.33		
20	64QAM	50	24	16.67	16.74	16.68	16.58	16.51	20.5	0
20	64QAM	50								



Band 2 Ant4 ECI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.88	16.10	16.12	17	0		
20	QPSK	1	49	15.88	16.18	16.15				
20	QPSK	1	99	15.85	16.07	16.09				
20	QPSK	50	0	15.78	16.16	16.05				
20	QPSK	50	24	15.93	15.93	15.97				
20	QPSK	50	50	15.95	16.15	15.97	17	0		
20	QPSK	100	0	15.88	16.11	16.10				
20	16QAM	1	0	15.87	16.14	16.13				
20	16QAM	1	49	15.94	15.94	16.10				
20	16QAM	1	99	15.78	15.92	15.94				
20	16QAM	50	0	15.68	16.07	15.91	17	0		
20	16QAM	50	24	15.71	16.10	15.86				
20	16QAM	50	50	15.97	16.02	16.12				
20	16QAM	100	0	15.75	16.18	15.98				
20	16QAM	1	0	15.88	15.97	15.87				
20	84QAM	1	49	15.91	16.03	16.11	17	0		
20	84QAM	1	99	15.81	16.13	15.89				
20	84QAM	50	0	15.94	16.16	16.15				
20	84QAM	50	24	15.72	15.91	15.97				
20	84QAM	50	50	15.96	16.11	16.01				
20	84QAM	100	0	15.71	16.14	15.94	17	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.71	16.04	16.02			17	0
15	QPSK	1	37	15.78	16.02	16.00				
15	QPSK	1	74	15.91	16.00	16.01				
15	QPSK	36	0	15.75	16.09	15.96				
15	QPSK	36	20	15.96	15.80	15.87				
15	QPSK	36	39	15.83	16.06	15.93	17	0		
15	QPSK	75	0	15.75	15.99	16.05				
15	16QAM	1	0	15.82	16.11	16.10				
15	16QAM	1	37	15.80	15.79	15.97				
15	16QAM	1	74	15.72	15.86	15.79				
15	16QAM	36	0	15.62	15.95	15.90	17	0		
15	16QAM	36	20	15.87	15.94	16.00				
15	16QAM	36	39	15.88	15.89	15.98				
15	16QAM	75	0	15.71	16.03	15.92				
15	84QAM	1	0	15.76	15.91	15.71				
15	84QAM	1	37	15.87	15.90	16.06	17	0		
15	84QAM	1	74	15.68	16.03	15.78				
15	84QAM	36	0	15.77	16.11	15.98				
15	84QAM	36	20	15.86	15.75	15.93				
15	84QAM	36	39	15.92	15.94	15.84				
15	84QAM	75	0	15.62	16.04	15.84	17	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.73	16.11	16.06			17	0
10	QPSK	1	25	15.78	16.10	16.04				
10	QPSK	1	49	15.71	15.90	15.95				
10	QPSK	25	0	15.73	16.11	15.98				
10	QPSK	25	12	15.80	15.83	15.81				
10	QPSK	25	25	15.85	15.99	15.89	17	0		
10	QPSK	50	0	15.96	16.09	16.06				
10	16QAM	1	0	15.71	16.09	16.00				
10	16QAM	1	25	15.79	15.86	16.06				
10	16QAM	1	49	15.65	15.82	15.87				
10	16QAM	25	0	15.54	15.92	15.88	17	0		
10	16QAM	25	12	15.59	16.02	15.70				
10	16QAM	25	25	15.82	15.89	16.03				
10	16QAM	50	0	15.68	16.06	15.90				
10	84QAM	1	0	15.74	15.91	15.82				
10	84QAM	1	25	15.87	15.94	16.03	17	0		
10	84QAM	1	49	15.77	15.96	15.83				
10	84QAM	25	0	15.83	16.03	16.00				
10	84QAM	25	12	15.82	15.85	15.91				
10	84QAM	25	25	15.82	15.95	15.97				
10	84QAM	50	0	15.55	15.97	15.79	17	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.76	16.15	16.04			17	0
5	QPSK	1	12	15.84	16.07	16.00				
5	QPSK	1	24	15.77	15.94	15.96				
5	QPSK	12	0	15.81	16.04	15.89				
5	QPSK	12	7	15.78	15.77	15.82				
5	QPSK	12	13	15.80	16.02	15.93	17	0		
5	QPSK	25	0	15.78	16.08	16.01				
5	16QAM	1	0	15.74	15.99	16.00				
5	16QAM	1	12	15.81	15.78	15.93				
5	16QAM	1	24	15.86	16.12	15.98				
5	16QAM	12	0	15.88	15.97	15.87	17	0		
5	16QAM	12	7	15.86	15.94	15.80				
5	16QAM	12	13	15.88	15.88	16.07				
5	16QAM	25	0	15.89	16.10	15.88				
5	84QAM	1	0	15.83	15.85	15.75				
5	84QAM	1	12	15.81	15.96	15.94	17	0		
5	84QAM	1	24	15.76	16.03	15.81				
5	84QAM	12	0	15.88	16.11	16.08				
5	84QAM	12	7	15.82	15.86	15.87				
5	84QAM	12	13	15.81	15.97	15.86				
5	84QAM	25	0	15.77	16.09	15.85	17	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	15.82	16.09	16.08			17	0
3	QPSK	1	8	15.72	16.07	16.03				
3	QPSK	1	14	15.71	15.98	16.04				
3	QPSK	8	0	15.61	16.10	15.97				
3	QPSK	8	4	15.83	15.79	15.84				
3	QPSK	8	7	15.85	16.01	15.88	17	0		
3	QPSK	15	0	15.83	16.00	15.99				
3	16QAM	1	0	15.74	16.07	16.09				
3	16QAM	1	8	15.87	15.90	16.06				
3	16QAM	1	14	15.69	15.85	15.87				
3	16QAM	8	0	15.81	16.00	15.86	17	0		
3	16QAM	8	4	15.83	16.05	15.79				
3	16QAM	8	7	15.87	15.89	15.96				
3	16QAM	15	0	15.87	16.12	15.89				
3	84QAM	1	0	15.73	15.94	15.73				
3	84QAM	1	8	15.78	15.89	15.96	17	0		
3	84QAM	1	14	15.88	15.99	15.74				
3	84QAM	8	0	15.85	16.08	16.10				
3	84QAM	8	4	15.81	15.85	15.81				
3	84QAM	8	7	15.92	16.04	15.86				
3	84QAM	15	0	15.85	16.01	15.89	17	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	15.77	16.12	16.03			17	0
1.4	QPSK	1	3	15.85	16.05	16.11				
1.4	QPSK	1	5	15.69	16.02	16.02				
1.4	QPSK	3	0	15.65	16.02	15.97				
1.4	QPSK	3	1	15.86	15.76	15.86				
1.4	QPSK	3	3	15.85	16.04	15.88	17	0		
1.4	QPSK	6	0	15.79	16.03	16.01				
1.4	16QAM	1	0	15.84	16.09	16.08				
1.4	16QAM	1	3	15.87	15.81	15.94				
1.4	16QAM	1	5	15.73	15.92	15.86				
1.4	16QAM	3	0	15.55	16.02	15.84	17	0		
1.4	16QAM	3	1	15.83	16.05	15.74				
1.4	16QAM	3	3	15.91	15.86	15.97				
1.4	16QAM	6	0	15.66	16.02	15.94				
1.4	84QAM	1	0	15.80	15.92	15.74				
1.4	84QAM	1	3	15.94	15.94	16.20	17	0		
1.4	84QAM	1	5	15.75	15.99	15.73				
1.4	84QAM	3	0	15.86	16.03	16.09				
1.4	84QAM	3	1	15.78	15.85	15.82				
1.4	84QAM	3	3	15.80	16.04	15.90				
1.4	84QAM	6	0	15.58	15.99	15.85	17	0		

Band 4 Ant4 ECI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.29	16.35	16.25	17.5	0		
20	QPSK	1	49	16.26	16.32	16.18				
20	QPSK	1	99	16.26	16.31	16.26				
20	QPSK	50	0	16.33	16.36	16.27				
20	QPSK	50	24	16.23	16.27	16.10				
20	QPSK	50	50	16.35	16.26	16.22	17.5	0		
20	QPSK	100	0	16.32	16.34	16.31				
20	16QAM	1	0	16.27	16.23	16.15				
20	16QAM	1	49	16.29	16.28	16.22				
20	16QAM	1	99	16.25	16.34	16.15				
20	16QAM	50	0	16.32	16.28	16.11	17.5	0		
20	16QAM	50	24	16.35	16.27	16.26				
20	16QAM	50	50	16.29	16.29	16.36				
20	16QAM	100	0	16.21	16.30	16.17				
20	84QAM	1	0	16.24	16.25	16.27				
20	84QAM	1	49	16.24	16.30	16.32	17.5	0		
20	84QAM	1	99	16.25	16.34	16.15				
20	84QAM	50	0	16.30	16.26	16.23				
20	84QAM	50	24	16.31	16.35	16.28				
20	84QAM	50	50	16.23	16.30	16.17				
20	84QAM	100	0	16.33	16.19	16.31	17.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.13	16.21	16.28			17.5	0
15	QPSK	1	37	16.14	16.27	16.06				
15	QPSK	1	74	16.16	16.28	16.15				
15	QPSK	36	0	16.18	16.26					



Band 7 Ant4 EC13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	11.02	11.12	11.04			
20	QPSK	1	49	10.87	11.05	10.92	12.5	0	
20	QPSK	1	99	10.93	10.96	10.90			
20	QPSK	50	0	11.03	11.04	10.96			
20	QPSK	50	24	10.95	10.95	10.98	12.5	0	
20	QPSK	50	50	10.87	10.99	10.94			
20	QPSK	100	0	10.99	11.03	11.02			
20	16QAM	1	0	10.83	10.99	10.89			
20	16QAM	1	49	10.85	11.00	10.89	12.5	0	
20	16QAM	1	99	10.98	11.11	10.95			
20	16QAM	50	0	10.88	11.04	10.85			
20	16QAM	50	24	10.89	11.01	10.90	12.5	0	
20	16QAM	50	50	11.05	11.04	10.95			
20	16QAM	100	0	10.92	10.94	10.93			
20	64QAM	1	0	10.87	11.05	10.82			
20	64QAM	1	49	11.10	11.06	11.01	12.5	0	
20	64QAM	1	99	10.91	10.94	10.96			
20	64QAM	50	0	10.83	10.99	10.92			
20	64QAM	50	24	10.98	11.02	11.05	12.5	0	
20	64QAM	50	50	10.92	11.02	10.98			
20	64QAM	100	0	10.93	11.06	10.82			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	10.91	10.93	11.01			
15	QPSK	1	37	10.76	11.00	10.88	12.5	0	
15	QPSK	1	74	10.81	10.82	10.86			
15	QPSK	36	0	11.00	10.91	10.82			
15	QPSK	36	20	10.91	10.85	10.91	12.5	0	
15	QPSK	36	39	10.73	10.83	10.88			
15	QPSK	75	0	10.85	10.97	10.92			
15	16QAM	1	0	10.77	10.87	10.85			
15	16QAM	1	37	10.76	10.86	10.73	12.5	0	
15	16QAM	1	74	10.80	10.94	10.89			
15	16QAM	36	0	10.73	11.00	10.74			
15	16QAM	36	20	10.83	10.86	10.84	12.5	0	
15	16QAM	36	39	11.02	10.90	10.82			
15	16QAM	75	0	10.79	10.88	10.88			
15	64QAM	1	0	10.78	10.94	10.69			
15	64QAM	1	37	10.96	10.97	10.86	12.5	0	
15	64QAM	1	74	10.87	10.81	10.93			
15	64QAM	36	0	10.78	10.80	10.80			
15	64QAM	36	20	10.84	10.98	11.01	12.5	0	
15	64QAM	36	39	10.89	10.96	10.86			
15	64QAM	75	0	10.88	10.92	10.77			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	10.91	10.99	10.91			
10	QPSK	1	25	10.82	10.93	10.86	12.5	0	
10	QPSK	1	49	10.78	10.92	10.86			
10	QPSK	25	0	10.84	10.88	10.92			
10	QPSK	25	12	10.80	10.83	10.94	12.5	0	
10	QPSK	25	25	10.75	10.87	10.85			
10	QPSK	50	0	10.90	10.97	10.86			
10	16QAM	1	0	10.69	10.95	10.77	12.5	0	
10	16QAM	1	25	10.75	10.84	10.74			
10	16QAM	1	49	10.82	10.94	10.92			
10	16QAM	25	0	10.74	10.95	10.76			
10	16QAM	25	12	10.79	10.86	10.83	12.5	0	
10	16QAM	25	25	11.01	10.92	10.84			
10	16QAM	50	0	10.77	10.90	10.83			
10	64QAM	1	0	10.81	10.93	10.75	12.5	0	
10	64QAM	1	25	11.07	10.98	10.97			
10	64QAM	1	49	10.80	10.86	10.86			
10	64QAM	25	0	10.75	10.91	10.81			
10	64QAM	25	12	10.86	10.88	10.97	12.5	0	
10	64QAM	25	25	10.87	10.98	10.90			
10	64QAM	50	0	10.80	10.96	10.72			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	10.93	11.02	11.00	12.5	0	
5	QPSK	1	12	10.77	10.92	10.79			
5	QPSK	1	24	10.85	10.92	10.85			
5	QPSK	12	0	10.86	10.86	10.84	12.5	0	
5	QPSK	12	7	10.88	10.84	10.85			
5	QPSK	12	13	10.77	10.90	10.90			
5	QPSK	25	0	10.88	10.93	10.96			
5	16QAM	1	0	10.77	10.91	10.73			
5	16QAM	1	12	10.72	10.96	10.72	12.5	0	
5	16QAM	1	24	10.91	11.05	10.98			
5	16QAM	12	0	10.77	10.99	10.70			
5	16QAM	12	7	10.74	10.88	10.74	12.5	0	
5	16QAM	12	13	10.97	11.00	10.85			
5	16QAM	25	0	10.83	10.86	10.85			
5	64QAM	1	0	10.80	10.95	10.66			
5	64QAM	1	12	10.94	11.01	10.90	12.5	0	
5	64QAM	1	24	10.77	10.88	10.85			
5	64QAM	12	0	10.73	10.93	10.83			
5	64QAM	12	7	10.85	10.98	11.00	12.5	0	
5	64QAM	12	13	10.87	10.94	10.95			
5	64QAM	25	0	10.82	10.97	10.72			

Band 12 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	22.49	22.54	22.48			
10	QPSK	1	25	22.42	22.51	22.46	23	0	
10	QPSK	1	49	22.46	22.49	22.45			
10	QPSK	25	0	21.58	21.62	21.47			
10	QPSK	25	12	21.41	21.61	21.38	22	1	
10	QPSK	25	25	21.51	21.54	21.45			
10	QPSK	50	0	21.56	21.59	21.54			
10	16QAM	1	0	21.83	21.91	21.68			
10	16QAM	1	25	21.82	21.72	21.87	22	1	
10	16QAM	1	49	21.78	21.74	21.76			
10	16QAM	25	0	20.57	20.61	20.42			
10	16QAM	25	12	20.37	20.66	20.45	21	2	
10	16QAM	25	25	20.51	20.50	20.48			
10	16QAM	50	0	20.55	20.88	20.54			
10	64QAM	1	0	20.81	20.81	20.80			
10	64QAM	1	25	20.74	20.71	20.70	21	2	
10	64QAM	1	49	20.67	20.75	20.72			
10	64QAM	25	0	19.60	19.62	19.43			
10	64QAM	25	12	19.48	19.55	19.48	20	3	
10	64QAM	25	25	19.53	19.51	19.53			
10	64QAM	50	0	19.53	19.58	19.44			
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	22.47	22.51	22.49			
5	QPSK	1	12	22.31	22.45	22.28	23	0	
5	QPSK	1	24	22.34	22.28	22.26			
5	QPSK	12	0	21.50	21.58	21.30			
5	QPSK	12	7	21.38	21.53	21.33	22	1	
5	QPSK	12	13	21.41	21.45	21.31			
5	QPSK	25	0	21.41	21.59	21.52			
5	16QAM	1	0	21.75	21.85	21.47			
5	16QAM	1	12	21.77	21.66	21.82	22	1	
5	16QAM	1	24	21.74	21.71	21.65			
5	16QAM	12	0	20.54	20.40	20.27			
5	16QAM	12	7	20.30	20.67	20.25	21	2	
5	16QAM	12	13	20.48	20.50	20.49			
5	16QAM	25	0	20.38	20.53	20.33			
5	64QAM	1	0	20.75	20.62	20.66			
5	64QAM	1	12	20.80	20.66	20.53	21	2	
5	64QAM	1	24	20.66	20.60	20.61			
5	64QAM	12	0	19.39	19.80	19.44			
5	64QAM	12	7	19.35	19.50	19.26	20	3	
5	64QAM	12	13	19.38	19.43	19.33			



Band 14 Ant4 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2330					
Frequency (MHz)				793					
10	QPSK	1	0	20.86	20.86	20.86	21.5	0	
10	QPSK	1	25	20.83	20.83	20.83			
10	QPSK	1	49	20.70	20.70	20.70			
10	QPSK	25	0	20.85	20.85	20.85			
10	QPSK	25	12	20.72	20.72	20.72	21.5	0	
10	QPSK	25	25	20.70	20.70	20.70			
10	QPSK	50	0	20.79	20.79	20.79			
10	16QAM	1	0	20.73	20.73	20.73	21.5	0	
10	16QAM	1	25	20.73	20.73	20.73			
10	16QAM	1	49	20.70	20.70	20.70			
10	16QAM	25	0	20.23	20.23	20.23			
10	16QAM	25	12	20.23	20.23	20.23	21	0.5	
10	16QAM	25	25	20.21	20.21	20.21			
10	16QAM	50	0	20.29	20.29	20.29			
10	64QAM	1	0	20.41	20.41	20.41			
10	64QAM	1	25	20.39	20.39	20.39	21	0.5	
10	64QAM	1	49	20.35	20.35	20.35			
10	64QAM	25	0	19.27	19.27	19.27			
10	64QAM	25	12	19.25	19.25	19.25	20	1.5	
10	64QAM	25	25	19.17	19.17	19.17			
10	64QAM	50	0	19.30	19.30	19.30			
Channel				23305	23330	23355			
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	0	20.67	20.78	20.75	21.5	0	
5	QPSK	1	12	20.66	20.66	20.68			
5	QPSK	1	24	20.60	20.72	20.58			
5	QPSK	12	0	20.68	20.78	20.67	21.5	0	
5	QPSK	12	7	20.61	20.77	20.75			
5	QPSK	12	13	20.55	20.68	20.60			
5	QPSK	25	0	20.68	20.75	20.68			
5	16QAM	1	0	20.61	20.69	20.60	21.5	0	
5	16QAM	1	12	20.63	20.74	20.56			
5	16QAM	1	24	20.63	20.69	20.74			
5	16QAM	12	0	20.21	20.14	20.20	21	0.5	
5	16QAM	12	7	20.17	20.18	20.23			
5	16QAM	12	13	20.20	20.13	20.11			
5	16QAM	25	0	20.27	20.13	20.27			
5	64QAM	1	0	20.25	20.19	20.20	21	0.5	
5	64QAM	1	12	20.18	20.27	20.19			
5	64QAM	1	24	20.18	20.27	20.29			
5	64QAM	12	0	19.18	19.14	19.06	20	1.5	
5	64QAM	12	7	19.07	19.25	19.13			
5	64QAM	12	13	19.12	19.10	18.97			
5	64QAM	25	0	19.18	19.09	19.31			

Band 17 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780					
Frequency (MHz)				710					
10	QPSK	1	0	22.45	22.49	22.41	23	0	
10	QPSK	1	25	22.42	22.46	22.35			
10	QPSK	1	49	22.45	22.42	22.41			
10	QPSK	25	0	21.47	21.65	21.44			
10	QPSK	25	12	21.51	21.55	21.53	22	1	
10	QPSK	25	25	21.58	21.59	21.60			
10	QPSK	50	0	21.60	21.66	21.63			
10	16QAM	1	0	21.55	21.80	21.56	22	1	
10	16QAM	1	25	21.63	21.71	21.44			
10	16QAM	1	49	21.64	21.75	21.49			
10	16QAM	25	0	20.53	20.67	20.50			
10	16QAM	25	12	20.63	20.52	20.42	21	2	
10	16QAM	25	25	20.67	20.58	20.51			
10	16QAM	50	0	20.61	20.62	20.58			
10	64QAM	1	0	20.73	20.74	20.67			
10	64QAM	1	25	20.69	20.71	20.61	21	2	
10	64QAM	1	49	20.68	20.71	20.62			
10	64QAM	25	0	19.57	19.63	19.53			
10	64QAM	25	12	19.59	19.56	19.55	20	3	
10	64QAM	25	25	19.63	19.69	19.67			
10	64QAM	50	0	19.61	19.65	19.59			
Channel				23755	23790	23825			
Frequency (MHz)				708.5	710	713.5			
5	QPSK	1	0	22.41	22.46	22.41	23	0	
5	QPSK	1	12	22.40	22.39	22.24			
5	QPSK	1	24	22.28	22.29	22.27			
5	QPSK	12	0	21.38	21.53	21.40	22	1	
5	QPSK	12	7	21.37	21.47	21.44			
5	QPSK	12	13	21.37	21.38	21.57			
5	QPSK	25	0	21.55	21.48	21.50			
5	16QAM	1	0	21.55	21.67	21.35	22	1	
5	16QAM	1	12	21.52	21.56	21.37			
5	16QAM	1	24	21.47	21.60	21.31			
5	16QAM	12	0	20.51	20.45	20.28	21	2	
5	16QAM	12	7	20.46	20.51	20.40			
5	16QAM	12	13	20.53	20.57	20.51			
5	16QAM	25	0	20.42	20.54	20.38			
5	64QAM	1	0	20.59	20.63	20.66			
5	64QAM	1	12	20.50	20.58	20.57	21	2	
5	64QAM	1	24	20.60	20.53	20.41			
5	64QAM	12	0	19.43	19.57	19.38			
5	64QAM	12	7	19.39	19.43	19.54	20	3	
5	64QAM	12	13	19.42	19.60	19.46			
5	64QAM	25	0	19.51	19.50	19.37			

Band 25 Ant4 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26140					
Frequency (MHz)				1830					
20	QPSK	1	0	16.03	16.03	16.03	17	0	
20	QPSK	1	49	15.90	16.22	16.21			
20	QPSK	1	99	15.87	16.29	16.17			
20	QPSK	50	0	16.07	16.30	16.19			
20	QPSK	50	24	15.91	16.24	16.16	17	0	
20	QPSK	50	50	15.89	16.19	16.14			
20	QPSK	100	0	16.03	16.25	16.26			
20	16QAM	1	0	15.95	16.27	16.13	17	0	
20	16QAM	1	49	15.89	16.16	16.15			
20	16QAM	1	99	16.14	16.31	16.27			
20	16QAM	50	0	15.91	16.21	16.16			
20	16QAM	50	24	15.86	16.21	16.07	17	0	
20	16QAM	50	50	16.07	16.26	16.20			
20	16QAM	100	0	15.91	16.21	16.17			
20	64QAM	1	0	15.85	16.19	16.04			
20	64QAM	1	49	16.13	16.23	16.16	17	0	
20	64QAM	1	99	15.96	16.28	16.21			
20	64QAM	50	0	15.97	16.21	16.13			
20	64QAM	50	24	16.10	16.27	16.25	17	0	
20	64QAM	50	50	15.92	16.32	16.17			
20	64QAM	100	0	15.89	16.30	16.10			
Channel				26115	26340	26675			
Frequency (MHz)				1857.5	1880	1917.5			
15	QPSK	1	0	15.88	16.16	16.14	17	0	
15	QPSK	1	37	15.81	16.18	16.14			
15	QPSK	1	74	15.83	16.21	16.04			
15	QPSK	36	0	15.93	16.21	16.15	17	0	
15	QPSK	36	20	15.77	16.21	16.07			
15	QPSK	36	39	15.83	16.04	16.01			
15	QPSK	75	0	15.88	16.11	16.14			
15	16QAM	1	0	15.81	16.11	16.06	17	0	
15	16QAM	1	37	15.83	16.14	16.00			
15	16QAM	1	74	16.03	16.24	16.21			
15	16QAM	36	0	15.77	16.05	16.06			
15	16QAM	36	20	15.74	16.13	16.10	17	0	
15	16QAM	36	39	16.02	16.19	16.13			
15	16QAM	75	0	15.85	16.08	16.04			
15	64QAM	1	0	15.77	16.12	15.97			
15	64QAM	1	37	16.03	16.18	16.08	17	0	
15	64QAM	1	74	15.84	16.19	16.09			
15	64QAM	36	0	15.82	16.13	16.08			
15	64QAM	36	20	15.95	16.13	16.16	17	0	
15	64QAM	36	39	15.85	16.29	16.04			



Band 26 Ant4 for FCC ECI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.15	21.45	21.75	22	0		
15	QPSK	1	37	21.18	21.32	21.20				
15	QPSK	1	74	21.21	21.25	21.13				
15	QPSK	36	0	21.13	21.32	21.13				
15	QPSK	36	20	21.13	21.25	21.17				
15	QPSK	36	39	21.20	21.30	21.14	22	0		
15	QPSK	75	0	21.12	21.28	21.12				
15	16QAM	1	0	21.32	21.35	21.14				
15	16QAM	1	37	21.29	21.31	21.14				
15	16QAM	1	74	21.07	21.33	21.16				
15	16QAM	36	0	20.15	20.22	20.10	21	1		
15	16QAM	36	20	20.11	20.17	20.14				
15	16QAM	36	39	20.11	20.18	20.14				
15	16QAM	75	0	20.21	20.29	20.18				
15	16QAM	75	0	20.25	20.39	20.22				
15	64QAM	1	0	20.30	20.34	20.27	21	1		
15	64QAM	1	37	20.30	20.34	20.27				
15	64QAM	1	74	20.14	20.22	20.03				
15	64QAM	36	0	19.23	19.27	19.21				
15	64QAM	36	20	19.13	19.14	19.18				
15	64QAM	36	39	19.22	19.24	19.12	20	2		
15	64QAM	75	0	19.18	19.29	19.12				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.17	21.40	21.13			22	0
10	QPSK	1	25	21.22	21.40	21.21				
10	QPSK	1	49	21.21	21.37	21.05				
10	QPSK	25	0	21.01	21.20	21.12				
10	QPSK	25	12	21.14	21.24	21.16				
10	QPSK	25	25	21.12	21.12	20.94	22	0		
10	QPSK	50	0	20.91	21.14	21.08				
10	16QAM	1	0	21.24	21.32	21.04				
10	16QAM	1	25	21.16	21.20	21.12				
10	16QAM	1	49	21.07	21.29	20.95				
10	16QAM	25	0	20.13	20.01	20.06	21	1		
10	16QAM	25	12	20.20	20.08	20.04				
10	16QAM	25	25	20.11	20.10	19.93				
10	16QAM	50	0	20.09	20.16	20.07				
10	64QAM	1	0	20.23	20.19	20.21				
10	64QAM	1	25	20.28	20.17	20.26	21	1		
10	64QAM	1	49	19.96	20.06	20.00				
10	64QAM	25	0	19.21	19.17	19.00				
10	64QAM	25	12	19.08	19.13	19.12				
10	64QAM	25	25	19.05	19.21	19.05				
10	64QAM	50	0	19.16	19.19	19.13	20	2		
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.22	21.41	21.14			22	0
5	QPSK	1	12	21.28	21.34	21.14				
5	QPSK	1	24	21.16	21.30	21.12				
5	QPSK	12	0	21.08	21.22	21.01				
5	QPSK	12	7	20.95	21.03	21.13				
5	QPSK	12	13	21.21	21.20	20.97	22	0		
5	QPSK	25	0	21.07	21.24	20.92				
5	16QAM	1	0	21.27	21.29	20.94				
5	16QAM	1	12	21.24	21.29	21.12				
5	16QAM	1	24	21.04	21.20	21.08				
5	16QAM	12	0	20.15	20.14	20.03	21	1		
5	16QAM	12	7	20.09	19.97	20.12				
5	16QAM	12	13	20.03	20.10	19.99				
5	16QAM	25	0	20.06	20.07	20.01				
5	64QAM	1	0	20.17	20.36	20.10				
5	64QAM	1	12	20.24	20.12	20.08	21	1		
5	64QAM	1	24	20.11	20.18	19.93				
5	64QAM	12	0	19.02	19.21	19.21				
5	64QAM	12	7	18.86	19.05	19.02				
5	64QAM	12	13	19.07	19.10	19.07				
5	64QAM	25	0	19.03	19.08	18.90	20	2		
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.20	21.33	21.20			22	0
3	QPSK	1	8	21.28	21.48	21.22				
3	QPSK	1	14	21.16	21.28	21.16				
3	QPSK	8	0	21.03	21.28	21.05				
3	QPSK	8	4	21.04	21.10	21.14				
3	QPSK	8	7	21.08	21.09	21.00	22	0		
3	QPSK	15	0	21.06	21.16	20.95				
3	16QAM	1	0	21.13	21.19	21.08				
3	16QAM	1	8	21.09	21.26	20.93				
3	16QAM	1	14	20.91	21.32	21.05				
3	16QAM	8	0	20.01	20.09	20.00	21	1		
3	16QAM	8	4	19.92	19.95	19.96				
3	16QAM	8	7	19.92	20.11	20.05				
3	16QAM	15	0	20.07	20.14	20.15				
3	64QAM	1	0	20.19	20.32	20.16				
3	64QAM	1	8	20.14	20.19	20.14	21	1		
3	64QAM	1	14	20.11	20.08	19.98				
3	64QAM	8	0	19.05	19.25	19.04				
3	64QAM	8	4	19.12	19.00	19.06				
3	64QAM	8	7	19.05	19.07	19.11				
3	64QAM	15	0	19.00	19.30	18.92	20	2		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.26	21.39	21.13			22	0
1.4	QPSK	1	3	21.18	21.32	21.14				
1.4	QPSK	1	5	21.16	21.32	21.16				
1.4	QPSK	3	0	21.23	21.44	21.20				
1.4	QPSK	3	1	21.21	21.35	21.22				
1.4	QPSK	3	3	21.13	21.33	21.10	22	0		
1.4	QPSK	6	0	20.93	21.22	20.94				
1.4	16QAM	1	0	20.84	21.02	21.12				
1.4	16QAM	1	3	20.89	20.87	20.97				
1.4	16QAM	1	5	21.04	20.96	20.90				
1.4	16QAM	3	0	21.08	21.19	20.91	22	0		
1.4	16QAM	3	1	20.97	21.17	20.85				
1.4	16QAM	3	3	20.73	21.17	21.01				
1.4	16QAM	6	0	19.99	20.11	19.91				
1.4	64QAM	1	0	20.05	19.92	20.03				
1.4	64QAM	1	3	20.05	19.95	19.95	21	1		
1.4	64QAM	1	5	19.91	20.09	19.97				
1.4	64QAM	3	0	20.04	20.22	20.11				
1.4	64QAM	3	1	20.10	20.12	20.09				
1.4	64QAM	3	3	19.96	20.11	19.95				
1.4	64QAM	6	0	18.94	19.13	19.09	20	2		

Band 30 Ant4 ECI3

BW (MHz)	Modulation	RB 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	QPSK	1	0	13.98	13.98	13.98	15.5	0		
10	QPSK	1	25	13.87	13.87	13.87				
10	QPSK	1	49	13.92	13.92	13.92				
10	QPSK	25	0	13.97	13.97	13.97				
10	QPSK	25	12	13.92	13.92	13.92				
10	QPSK	25	25	13.94	13.94	13.94	15.5	0		
10	QPSK	50	0	13.95	13.95	13.95				
10	16QAM	1	0	13.88	13.88	13.88				
10	16QAM	1	25	13.85	13.85	13.85				
10	16QAM	1	49	13.91	13.91	13.91				
10	16QAM	25	0	13.88	13.88	13.88	15.5	0		
10	16QAM	25	12	13.93	13.93	13.93				
10	16QAM	25	25	13.87	13.87	13.87				
10	16QAM	50	0	13.96	13.96	13.96				
10	64QAM	1	0	13.93	13.93	13.93				
10	64QAM	1	25	13.96	13.96	13.96	15.5	0		
10	64QAM	1	49	13.91	13.91	13.91				
10	64QAM	25	0	13.96	13.96	13.96				
10	64QAM	25	12	13.91	13.91	13.91				
10	64QAM	25	25	13.94	13.94	13.94				
10	64QAM	50	0	13.92	13.92	13.92	15.5	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.73	13.84	13.82			15.5	0
5	QPSK	1	12	13.90	13.79	13.84				
5	QPSK	1	24	13.79	13.68	13.80				
5	QPSK	12	0	13.84	13.96	13.84				
5	QPSK	12	7	13.77	13.83	13.74				
5	QPSK	12	13	13.78	13.78	13.79	15.5	0		
5	QPSK	25	0	13.82	13.94	13.95				
5	16QAM	1	0	13.77	13.77	13.81				
5	16QAM	1	12	13.88	13.88	13.72				
5	16QAM	1	24	13.78	13.79	13.86				
5	16QAM	12	0	13.89	13.96	13.82	15.5	0		
5	16QAM	12	7	13.87	13.96	13.85				
5	16QAM	12	13	13.89	13.82	13.73				
5	16QAM	25	0	13.88	13.86	13.94				
5	64QAM	1	0	13.82	13.91	13.94				
5	64QAM	1	12	13.88	13.77	13.80	15.5	0		
5	64QAM	1	24	13.77	13.82	13.76				
5	64QAM	12	0	13.91	13.82	13.82				
5	64QAM	12	7	13.89	13.95	13.85				
5	64QAM	12	13	13.72	13.83	13.83				
5	64QAM	25	0	13.96	13.96	13.92	15.5	0		

Band 66 Ant4 ECI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0					



Band 71 Ant4 ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	673	673		
20	QPSK	1	0	22.49	22.54	22.43	23	0
20	QPSK	1	49	22.40	22.51	22.39		
20	QPSK	1	99	22.41	22.50	22.36		
20	QPSK	50	0	21.74	21.77	21.72	22	1
20	QPSK	50	24	21.55	21.60	21.68		
20	QPSK	50	50	21.55	21.58	21.44		
20	QPSK	100	0	21.62	21.67	21.60		
20	16QAM	1	0	21.70	21.75	21.64	22	1
20	16QAM	1	49	21.69	21.70	21.57		
20	16QAM	1	99	21.86	21.82	21.67		
20	16QAM	50	0	20.83	20.72	20.65	21	2
20	16QAM	50	24	20.66	20.56	20.58		
20	16QAM	50	50	20.66	20.70	20.35		
20	16QAM	100	0	20.65	20.68	20.52		
20	64QAM	1	0	20.62	20.76	20.70	21	2
20	64QAM	1	49	20.56	20.61	20.48		
20	64QAM	1	99	20.58	20.63	20.59		
20	64QAM	50	0	19.71	19.71	19.69	20	3
20	64QAM	50	24	19.47	19.60	19.63		
20	64QAM	50	50	19.55	19.68	19.38		
20	64QAM	100	0	19.70	19.70	19.65		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	22.45	22.53	22.30	23	0
15	QPSK	1	37	22.37	22.29	22.21		
15	QPSK	1	74	22.38	22.47	22.29		
15	QPSK	36	0	21.53	21.88	21.71	22	1
15	QPSK	36	20	21.47	21.43	21.47		
15	QPSK	36	39	21.54	21.40	21.35		
15	QPSK	75	0	21.57	21.67	21.39		
15	16QAM	1	0	21.63	21.60	21.51	22	1
15	16QAM	1	37	21.56	21.65	21.37		
15	16QAM	1	74	21.55	21.61	21.63		
15	16QAM	36	0	20.56	20.60	20.43	21	2
15	16QAM	36	20	20.66	20.36	20.46		
15	16QAM	36	39	20.62	20.58	20.43		
15	16QAM	75	0	20.44	20.63	20.46		
15	64QAM	1	0	20.52	20.58	20.68	21	2
15	64QAM	1	37	20.42	20.52	20.34		
15	64QAM	1	74	20.37	20.43	20.51		
15	64QAM	36	0	19.70	19.67	19.55	20	3
15	64QAM	36	20	19.42	19.42	19.46		
15	64QAM	36	39	19.55	19.54	19.38		
15	64QAM	75	0	19.68	19.54	19.63		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	22.35	22.47	22.28	23	0
10	QPSK	1	25	22.23	22.36	22.40		
10	QPSK	1	49	22.32	22.30	22.15		
10	QPSK	25	0	21.55	21.64	21.50	22	1
10	QPSK	25	12	21.56	21.59	21.46		
10	QPSK	25	25	21.53	21.56	21.39		
10	QPSK	50	0	21.53	21.48	21.42		
10	16QAM	1	0	21.58	21.73	21.46	22	1
10	16QAM	1	25	21.56	21.68	21.40		
10	16QAM	1	49	21.58	21.59	21.54		
10	16QAM	25	0	20.58	20.71	20.50	21	2
10	16QAM	25	12	20.62	20.52	20.48		
10	16QAM	25	25	20.53	20.54	20.41		
10	16QAM	50	0	20.66	20.50	20.52		
10	64QAM	1	0	20.52	20.57	20.51	21	2
10	64QAM	1	25	20.42	20.52	20.38		
10	64QAM	1	49	20.55	20.47	20.46		
10	64QAM	25	0	19.66	19.63	19.47	20	3
10	64QAM	25	12	19.46	19.57	19.56		
10	64QAM	25	25	19.46	19.64	19.38		
10	64QAM	50	0	19.68	19.50	19.51		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	22.37	22.47	22.38	23	0
5	QPSK	1	12	22.37	22.34	22.24		
5	QPSK	1	24	22.29	22.36	22.19		
5	QPSK	12	0	21.80	21.71	21.84	22	1
5	QPSK	12	7	21.37	21.41	21.58		
5	QPSK	12	13	21.47	21.59	21.31		
5	QPSK	25	0	21.47	21.57	21.50		
5	16QAM	1	0	21.69	21.65	21.63	22	1
5	16QAM	1	12	21.52	21.59	21.43		
5	16QAM	1	24	21.63	21.63	21.60		
5	16QAM	12	0	20.62	20.55	20.48	21	2
5	16QAM	12	7	20.61	20.46	20.39		
5	16QAM	12	13	20.54	20.58	20.31		
5	16QAM	25	0	20.57	20.54	20.30		
5	64QAM	1	0	20.50	20.77	20.59	21	2
5	64QAM	1	12	20.37	20.47	20.45		
5	64QAM	1	24	20.44	20.48	20.44		
5	64QAM	12	0	19.69	19.66	19.54	20	3
5	64QAM	12	7	19.29	19.60	19.54		
5	64QAM	12	13	19.44	19.53	19.37		
5	64QAM	25	0	19.63	19.56	19.53		



Band 41 Ant4 ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	14.81	14.90	15.20	15.06	15.05	16	0
20	QPSK	1	49	14.82	14.86	15.10	14.93	15.13		
20	QPSK	1	99	15.11	14.99	15.11	15.33	15.11		
20	QPSK	50	0	14.77	14.87	15.13	15.05	14.96		
20	QPSK	50	24	14.81	14.81	15.06	14.91	14.98	16	0
20	QPSK	50	50	14.75	14.79	14.97	14.98	15.06		
20	QPSK	100	0	14.73	14.80	15.11	15.09	14.99		
20	16QAM	1	0	14.75	14.76	15.13	14.98	15.01		
20	16QAM	1	49	14.76	14.81	15.00	14.91	14.95	16	0
20	16QAM	1	99	14.71	14.86	15.09	14.98	15.01		
20	16QAM	50	0	14.72	14.77	15.13	15.03	14.96		
20	16QAM	50	24	14.81	14.81	15.00	14.85	15.02		
20	16QAM	50	50	14.71	14.89	15.16	15.07	15.02	16	0
20	16QAM	100	0	14.69	14.79	15.14	14.99	14.95		
20	64QAM	1	0	14.73	14.79	15.10	14.89	15.01		
20	64QAM	1	49	14.80	14.93	15.15	15.02	14.94		
20	64QAM	1	99	14.69	14.75	15.09	15.02	14.95	16	0
20	64QAM	50	0	14.73	14.83	15.07	14.93	14.95		
20	64QAM	50	24	14.82	14.87	15.16	15.06	15.00		
20	64QAM	50	50	14.77	14.81	15.05	14.95	14.98		
20	64QAM	100	0	14.78	14.82	15.08	14.95	15.01		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	14.74	14.92	15.16	15.05	14.96	16.0	0
15	QPSK	1	37	14.74	14.75	15.13	14.92	14.95		
15	QPSK	1	74	14.74	14.85	15.05	14.91	14.96		
15	QPSK	36	0	14.73	14.83	15.19	14.98	14.94		
15	QPSK	36	20	14.81	14.82	15.05	14.82	15.03	16	0
15	QPSK	36	39	14.73	14.77	15.05	14.89	14.96		
15	QPSK	75	0	14.72	14.90	15.10	14.98	15.00		
15	16QAM	1	0	14.82	14.79	15.05	15.03	14.99		
15	16QAM	1	37	14.79	14.88	15.04	14.98	14.95	16	0
15	16QAM	1	74	14.74	14.92	15.10	14.97	14.95		
15	16QAM	36	0	14.69	14.75	15.13	14.95	14.98		
15	16QAM	36	20	14.75	14.86	15.07	14.91	15.05		
15	16QAM	36	39	14.74	14.88	15.16	15.00	15.02	16	0
15	16QAM	75	0	14.77	14.87	15.00	15.00	14.98		
15	64QAM	1	0	14.77	14.86	15.07	14.94	14.94		
15	64QAM	1	37	14.74	14.87	15.16	15.00	14.95		
15	64QAM	1	74	14.80	14.82	15.10	14.91	15.06	16	0
15	64QAM	36	0	14.78	14.84	15.11	14.86	14.93		
15	64QAM	36	20	14.81	14.79	15.16	14.98	15.06		
15	64QAM	36	39	14.70	14.84	15.05	14.93	14.92		
15	64QAM	75	0	14.77	14.89	14.97	14.96	15.05		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	14.80	14.83	15.06	14.98	14.98	16.0	0
10	QPSK	1	25	14.82	14.75	15.04	14.93	14.96		
10	QPSK	1	49	14.70	14.81	15.11	14.87	14.93		
10	QPSK	25	0	14.78	14.91	15.07	15.07	15.03		
10	QPSK	25	12	14.83	14.83	15.04	15.02	14.95	16	0
10	QPSK	25	25	14.76	14.92	15.00	14.99	15.04		
10	QPSK	50	0	14.77	14.81	15.18	15.04	15.05		
10	16QAM	1	0	14.76	14.80	15.07	14.91	15.06		
10	16QAM	1	25	14.82	14.77	15.04	14.95	15.04	16	0
10	16QAM	1	49	14.84	14.90	15.18	15.07	14.95		
10	16QAM	25	0	14.75	14.76	15.07	15.00	15.00		
10	16QAM	25	12	14.82	14.80	15.02	14.97	14.98		
10	16QAM	25	25	14.76	14.80	15.14	15.02	14.95	16	0
10	16QAM	50	0	14.71	14.79	15.14	15.00	14.97		
10	64QAM	1	0	14.76	14.76	14.98	14.87	15.04		
10	64QAM	1	25	14.75	14.82	15.05	14.98	15.05		
10	64QAM	1	49	14.71	14.78	15.11	15.02	14.98	16	0
10	64QAM	25	0	14.77	14.77	15.07	14.85	14.96		
10	64QAM	25	12	14.81	14.80	15.09	15.11	14.99		
10	64QAM	25	25	14.71	14.75	15.09	15.02	14.93		
10	64QAM	50	0	14.80	14.82	15.05	14.95	15.04		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	14.77	14.92	15.19	14.98	15.06	16.0	0
5	QPSK	1	12	14.78	14.82	15.05	14.94	15.03		
5	QPSK	1	24	14.70	14.80	14.98	14.93	14.98		
5	QPSK	12	0	14.83	14.80	15.15	15.07	14.95		
5	QPSK	12	7	14.82	14.79	15.01	14.92	15.05	16	0
5	QPSK	12	13	14.79	14.76	14.99	14.96	14.98		
5	QPSK	25	0	14.77	14.84	15.06	14.99	15.04		
5	16QAM	1	0	14.75	14.82	15.00	15.02	14.96		
5	16QAM	1	12	14.81	14.78	14.98	14.93	14.92	16	0
5	16QAM	1	24	14.79	14.79	15.12	14.99	14.94		
5	16QAM	12	0	14.80	14.83	15.00	15.03	14.97		
5	16QAM	12	7	14.78	14.87	15.06	14.93	14.97		
5	16QAM	12	13	14.73	14.92	15.18	15.04	15.02	16	0
5	16QAM	25	0	14.73	14.78	15.09	15.02	15.01		
5	64QAM	1	0	14.82	14.80	15.08	14.90	14.92		
5	64QAM	1	12	14.72	14.93	15.11	15.00	15.02		
5	64QAM	1	24	14.80	14.87	15.07	14.98	15.04	16	0
5	64QAM	12	0	14.72	14.80	15.01	14.88	14.95		
5	64QAM	12	7	14.81	14.87	15.06	15.00	14.98		
5	64QAM	12	13	14.71	14.79	15.03	14.95	14.98		
5	64QAM	25	0	14.80	14.76	15.01	14.95	15.03		

Band 41 Ant4 HPUE ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.83	17.81	17.97	17.84	17.94	19	0
20	QPSK	1	49	17.81	17.81	17.84	17.76	17.77		
20	QPSK	1	99	17.81	17.61	17.96	17.83	17.81		
20	QPSK	50	0	17.47	17.46	17.50	17.77	17.87		
20	QPSK	50	24	17.54	17.59	17.88	17.78	17.70	19	0
20	QPSK	50	50	17.60	17.58	17.86	17.67	17.57		
20	QPSK	100	0	17.54	17.59	17.88	17.78	17.83		
20	16QAM	1	0	17.51	17.56	17.90	17.67	17.87		
20	16QAM	1	49	17.61	17.63	17.90	17.66	17.67	19	0
20	16QAM	1	99	17.47	17.50	17.89	17.89	17.91		
20	16QAM	50	0	17.48	17.66	17.84	17.73	17.75		
20	16QAM	50	24	17.55	17.59	17.85	17.68	17.68		
20	16QAM	50	50	17.54	17.52	17.93	17.78	17.85	19	0
20	16QAM	100	0	17.47	17.58	17.92	17.78	17.87		
20	64QAM	1	0	17.53	17.63	17.92	17.84	17.74		
20	64QAM	1	49	17.63	17.46	17.95	17.98	17.88		
20	64QAM	1	99	17.53	17.57	17.92	17.74	17.80	19	0
20	64QAM	50	0	17.53	17.65	17.92	17.69	17.69		
20	64QAM	50	24	17.57	17.47	17.90	17.90	17.94		
20	64QAM	50	50	17.52	17.62	17.87	17.70	17.72		
20	64QAM	100	0	17.60	17.66	17.89	17.66	17.75		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.56	17.55	17.90	17.90	17.81	19.0	0
15	QPSK	1	37	17.50	17.57	17.87	17.71	17.70		
15	QPSK	1	74	17.65	17.58	17.92	17.65	17.62		
15	QPSK	36	0	17.45	17.48	17.86	1			



Band 41 Ant7 ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.53	16.64	17.01	16.69	16.89	18	0
20	QPSK	1	49	16.66	16.64	16.86	16.60	16.84		
20	QPSK	5	99	16.55	16.81	16.94	16.82	16.79	18	0
20	QPSK	50	0	16.51	16.71	16.98	16.77	16.79		
20	QPSK	50	24	16.53	16.57	16.97	16.54	16.80	18	0
20	QPSK	50	50	16.63	16.65	16.84	16.62	16.90		
20	QPSK	100	0	16.52	16.66	16.96	16.71	16.87	18	0
20	16QAM	1	0	16.51	16.66	16.88	16.60	16.77		
20	16QAM	1	49	16.44	16.60	16.86	16.64	16.88	18	0
20	16QAM	1	99	16.51	16.77	16.88	16.78	16.84		
20	16QAM	50	0	16.57	16.69	16.87	16.54	16.83	18	0
20	16QAM	50	24	16.57	16.65	16.92	16.67	16.86		
20	16QAM	50	50	16.65	16.63	16.98	16.74	16.85	18	0
20	16QAM	100	0	16.59	16.60	16.88	16.55	16.78		
20	64QAM	1	0	16.57	16.64	16.93	16.54	16.80	18	0
20	64QAM	1	49	16.56	16.71	16.93	16.73	16.80		
20	64QAM	1	99	16.56	16.59	16.90	16.54	16.74	18	0
20	64QAM	50	0	16.55	16.57	16.91	16.61	16.88		
20	64QAM	50	24	16.59	16.77	16.96	16.76	16.89	18	0
20	64QAM	50	50	16.48	16.68	16.90	16.56	16.74		
20	64QAM	100	0	16.52	16.62	16.93	16.58	16.81		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.50	16.63	16.90	16.71	16.89	18.0	0
15	QPSK	1	37	16.59	16.57	16.94	16.49	16.75		
15	QPSK	1	74	16.56	16.57	16.91	16.66	16.79	18	0
15	QPSK	36	0	16.49	16.75	16.87	16.71	16.81		
15	QPSK	36	20	16.45	16.67	16.87	16.61	16.79	18	0
15	QPSK	36	39	16.55	16.67	16.83	16.60	16.87		
15	QPSK	75	0	16.46	16.64	16.94	16.76	16.90	18	0
15	16QAM	1	0	16.54	16.63	16.98	16.57	16.81		
15	16QAM	1	37	16.54	16.56	16.85	16.64	16.78	18	0
15	16QAM	1	74	16.65	16.73	17.00	16.81	16.82		
15	16QAM	36	0	16.58	16.57	16.96	16.53	16.76	18	0
15	16QAM	36	20	16.54	16.57	16.90	16.61	16.85		
15	16QAM	36	39	16.56	16.71	16.87	16.72	16.78	18	0
15	16QAM	75	0	16.63	16.57	16.99	16.50	16.82		
15	64QAM	1	0	16.48	16.55	16.89	16.61	16.86	18	0
15	64QAM	1	37	16.50	16.68	16.89	16.75	16.90		
15	64QAM	1	74	16.58	16.59	16.92	16.48	16.76	18	0
15	64QAM	36	0	16.66	16.58	16.83	16.61	16.84		
15	64QAM	36	20	16.53	16.64	16.97	16.73	16.89	18	0
15	64QAM	36	39	16.59	16.67	16.96	16.48	16.81		
15	64QAM	75	0	16.50	16.66	16.86	16.62	16.83		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.46	16.70	16.88	16.77	16.88	18.0	0
10	QPSK	1	25	16.55	16.57	16.92	16.53	16.81		
10	QPSK	1	49	16.56	16.60	16.82	16.62	16.80	18	0
10	QPSK	25	0	16.57	16.67	16.87	16.79	16.89		
10	QPSK	25	12	16.54	16.69	16.89	16.54	16.79	18	0
10	QPSK	25	25	16.45	16.67	16.82	16.55	16.84		
10	QPSK	50	0	16.48	16.71	16.87	16.71	16.82	18	0
10	16QAM	1	0	16.59	16.67	16.86	16.47	16.79		
10	16QAM	1	25	16.54	16.68	16.81	16.63	16.81	18	0
10	16QAM	1	49	16.46	16.66	16.95	16.77	16.90		
10	16QAM	25	0	16.56	16.68	16.88	16.58	16.88	18	0
10	16QAM	25	12	16.48	16.58	16.92	16.64	16.79		
10	16QAM	25	25	16.56	16.73	16.93	16.81	16.80	18	0
10	16QAM	50	0	16.52	16.67	16.95	16.56	16.84		
10	64QAM	1	0	16.56	16.55	16.88	16.64	16.86	18	0
10	64QAM	1	25	16.48	16.75	16.95	16.71	16.85		
10	64QAM	1	49	16.49	16.59	16.93	16.56	16.79	18	0
10	64QAM	25	0	16.47	16.68	16.82	16.59	16.81		
10	64QAM	25	12	16.54	16.69	16.92	16.76	16.79	18	0
10	64QAM	25	25	16.58	16.62	16.93	16.58	16.83		
10	64QAM	50	0	16.50	16.55	16.89	16.63	16.89		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	16.45	16.76	16.90	16.80	16.82	18.0	0
5	QPSK	1	12	16.53	16.57	16.90	16.49	16.83		
5	QPSK	1	24	16.47	16.55	16.85	16.63	16.88	18	0
5	QPSK	12	0	16.47	16.66	16.92	16.78	16.90		
5	QPSK	12	7	16.46	16.57	16.91	16.51	16.79	18	0
5	QPSK	12	13	16.56	16.63	16.92	16.61	16.90		
5	QPSK	25	0	16.48	16.74	16.94	16.77	16.89	18	0
5	16QAM	1	0	16.56	16.66	16.99	16.61	16.74		
5	16QAM	1	12	16.57	16.65	16.84	16.61	16.78	18	0
5	16QAM	1	24	16.55	16.71	16.95	16.82	16.89		
5	16QAM	12	0	16.48	16.62	16.91	16.50	16.85	18	0
5	16QAM	12	7	16.58	16.55	16.89	16.61	16.85		
5	16QAM	12	13	16.51	16.68	16.92	16.70	16.90	18	0
5	16QAM	25	0	16.60	16.67	16.90	16.60	16.79		
5	64QAM	1	0	16.47	16.62	16.89	16.61	16.86	18	0
5	64QAM	1	12	16.55	16.67	16.90	16.76	16.90		
5	64QAM	1	24	16.53	16.58	16.93	16.49	16.76	18	0
5	64QAM	12	0	16.51	16.58	16.93	16.66	16.88		
5	64QAM	12	7	16.66	16.69	16.93	16.78	16.87	18	0
5	64QAM	12	13	16.52	16.58	17.00	16.52	16.76		
5	64QAM	25	0	16.56	16.60	16.88	16.57	16.87		

Band 41 Ant7 HPUE ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.71	19.72	19.96	19.86	19.78	21	0
20	QPSK	1	49	19.48	19.55	19.87	19.78	19.73		
20	QPSK	1	99	19.52	19.69	19.93	19.67	19.78	21	0
20	QPSK	50	0	19.71	19.75	19.96	19.82	19.85		
20	QPSK	50	24	19.51	19.59	19.84	19.70	19.88	21	0
20	QPSK	50	50	19.38	19.77	19.83	19.60	19.70		
20	QPSK	100	0	19.62	19.66	19.88	19.74	19.86	21	0
20	16QAM	1	0	19.53	19.60	19.87	19.70	19.72		
20	16QAM	1	49	19.49	19.79	19.78	19.65	19.66	21	0
20	16QAM	1	99	19.61	19.66	19.93	19.81	19.82		
20	16QAM	50	0	19.50	19.60	19.81	19.65	19.80	21	0
20	16QAM	50	24	19.44	19.79	19.87	19.68	19.71		
20	16QAM	50	50	19.59	19.71	19.85	19.84	19.79	21	0
20	16QAM	100	0	19.52	19.56	19.87	19.77	19.72		
20	64QAM	1	0	19.48	19.69	19.81	19.68	19.72	21	0
20	64QAM	1	49	19.70	19.69	19.84	19.78	19.77		
20	64QAM	1	99	19.47	19.54	19.89	19.68	19.72	21	0
20	64QAM	50	0	19.40	19.77	19.79	19.68	19.76		
20	64QAM	50	24	19.59	19.77	19.85	19.75	19.87	21	0
20	64QAM	50	50	19.53	19.54	19.80	19.75	19.71		
20	64QAM	100	0	19.51	19.74	19.86	19.64	19.65		
Channel				39725</						



ECI6 Power

	ECI6			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)				128	189	251	
GSM850 Ant0	128	189	251	30.50	20.61	20.70	20.55	21.50
TX Channel	824.2	835.4	846.6		824.2	835.4	846.6	
Frequency (MHz)	29.61	29.70	29.55	30.50	20.61	20.70	20.55	21.50
GSM 1 Tx slot	29.59	29.59	29.51	30.50	20.59	20.59	20.51	21.50
GPRS 1 Tx slot	28.53	28.46	28.40	29.50	22.53	22.46	22.40	23.50
GPRS 2 Tx slots	26.35	26.43	26.38	27.50	22.09	22.17	22.12	23.24
GPRS 3 Tx slots	25.16	25.30	25.21	26.50	22.16	22.30	22.21	23.50
GPRS 4 Tx slots	23.23	23.30	23.16	24.50	14.23	14.30	14.16	15.50
EDGE 1 Tx slot	22.11	22.21	22.11	23.00	16.11	16.21	16.11	17.00
EDGE 2 Tx slots	19.85	19.90	19.94	21.00	15.59	15.64	15.68	16.74
EDGE 3 Tx slots	18.49	18.49	18.54	19.50	15.49	15.49	15.54	16.50
EDGE 4 Tx slots								

	ECI6			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)				512	661	810	
GSM1900 Ant0	512	661	810	26.00	16.58	16.71	16.41	17.00
TX Channel	1852.2	1860	1869.8		1852.2	1860	1869.8	
Frequency (MHz)	25.58	25.71	25.41	26.00	16.58	16.71	16.41	17.00
GSM 1 Tx slot	25.65	25.73	25.57	26.00	16.65	16.73	16.57	17.00
GPRS 1 Tx slot	24.81	24.85	24.55	25.00	18.81	18.85	18.55	19.00
GPRS 2 Tx slots	22.85	22.90	22.47	23.50	18.59	18.64	18.21	19.24
GPRS 3 Tx slots	21.59	21.62	21.47	22.00	18.59	18.62	18.47	19.00
GPRS 4 Tx slots	21.36	21.28	21.10	22.50	12.36	12.28	12.10	13.50
EDGE 1 Tx slot	20.21	20.22	20.05	21.50	14.21	14.22	14.05	15.50
EDGE 2 Tx slots	18.17	18.22	18.05	19.50	13.91	13.96	13.79	15.24
EDGE 3 Tx slots	16.75	16.89	16.75	18.00	13.75	13.89	13.75	15.00
EDGE 4 Tx slots								

Band	ECI6			Tune-up Limit (dBm)	ECI6			Tune-up Limit (dBm)	ECI6			Tune-up Limit (dBm)	
	WCDMA II Ant0				WCDMA IV Ant0				WCDMA V Ant0				
TX Channel	9262	9400	9538		1312	1413	1513		4192	4182	4233		
Frequency (MHz)	1852.4	1860	1867.6		1537	1638	1738		4357	4407	4458		
3GPP Rel 99	AMR 12.2Kbps	16.66	16.95	16.88	18.50	19.45	19.47	19.48	21.00	22.11	22.23	22.12	23.50
3GPP Rel 99	RMC 12.2Kbps	16.85	17.02	16.94	18.50	19.49	19.52	19.49	21.00	22.13	22.29	22.15	23.50
3GPP Rel 6	HSDPA Subtest-1	15.71	16.06	16.02	17.50	18.43	18.53	18.49	20.00	21.13	21.28	21.18	22.50
3GPP Rel 6	HSDPA Subtest-2	15.72	15.96	15.86	17.50	18.45	18.50	18.48	20.00	21.18	21.34	21.16	22.50
3GPP Rel 6	HSDPA Subtest-3	15.28	15.53	15.51	17.00	18.01	18.05	17.98	19.50	20.63	20.80	20.65	22.00
3GPP Rel 6	HSDPA Subtest-4	15.34	15.57	15.49	17.00	17.98	18.06	18.00	19.50	20.61	20.84	20.71	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	15.83	16.03	15.88	17.50	18.47	18.48	18.54	20.00	21.20	21.32	21.14	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	15.72	16.01	15.90	17.50	18.53	18.52	18.48	20.00	21.18	21.31	21.08	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	15.15	15.54	15.47	17.00	17.94	18.00	17.96	19.50	20.60	20.83	20.67	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	15.30	15.52	15.48	17.00	17.97	18.01	17.94	19.50	20.57	20.78	20.60	22.00
3GPP Rel 6	HSUPA Subtest-1	15.75	15.98	15.92	17.50	18.53	18.56	18.54	20.00	21.19	21.27	21.13	22.50
3GPP Rel 6	HSUPA Subtest-2	13.84	14.11	13.95	15.50	16.48	16.53	16.54	18.00	19.17	19.34	19.21	20.50
3GPP Rel 6	HSUPA Subtest-3	14.80	14.99	14.93	16.50	17.49	17.53	17.44	19.00	20.16	20.24	20.17	21.50
3GPP Rel 6	HSUPA Subtest-4	13.69	14.14	13.98	15.50	16.45	16.52	16.44	18.00	19.08	19.28	19.17	20.50
3GPP Rel 6	HSUPA Subtest-5	15.77	16.05	15.97	17.50	18.48	18.49	18.48	20.00	21.14	21.24	21.15	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.48	13.62	13.58	15.00	15.98	15.99	15.98	17.50	18.68	18.83	18.84	20.00



Band 2 ECI6 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	17.14	17.20	17.26	18.5	0				
20	QPSK	1	49	17.05	17.21	17.18						
20	QPSK	1	99	16.96	17.24	17.09						
20	QPSK	50	0	17.03	17.24	17.18						
20	QPSK	50	24	16.87	17.23	17.16	18.5	0				
20	QPSK	50	50	17.04	17.09	17.11						
20	QPSK	100	0	17.14	17.21	17.12						
20	16QAM	1	0	17.22	17.30	17.20						
20	16QAM	1	49	17.10	17.20	17.17	18.5	0				
20	16QAM	1	99	17.07	17.26	17.19						
20	16QAM	50	0	17.07	17.22	17.23						
20	16QAM	50	24	17.09	17.29	17.14						
20	16QAM	50	50	16.94	17.20	16.96	18.5	0				
20	16QAM	100	0	17.16	17.27	17.22						
20	64QAM	1	0	17.22	17.28	17.26						
20	64QAM	1	49	17.23	17.25	17.21						
20	64QAM	1	99	17.18	17.28	17.19	18.5	0				
20	64QAM	50	0	17.19	17.24	17.23						
20	64QAM	50	24	16.98	17.28	17.10						
20	64QAM	50	50	16.96	17.29	16.88						
20	64QAM	100	0	17.01	17.21	17.20	18.5	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	17.09	17.29	17.24				18.5	0	
15	QPSK	1	37	16.96	17.23	17.11						
15	QPSK	1	74	16.99	17.16	17.01						
15	QPSK	36	20	16.77	17.22	17.18						
15	QPSK	36	39	16.96	17.04	17.11	18.5	0				
15	QPSK	75	0	17.12	17.16	17.03						
15	16QAM	1	0	17.20	17.28	17.11						
15	16QAM	1	37	17.13	17.23	17.14						
15	16QAM	1	74	17.27	17.18	17.17	18.5	0				
15	16QAM	36	0	17.11	17.14	17.22						
15	16QAM	36	20	16.94	17.14	17.16						
15	16QAM	36	39	16.94	17.19	16.98						
15	16QAM	75	0	17.12	17.20	17.19	18.5	0				
15	64QAM	1	0	17.23	17.23	17.16						
15	64QAM	1	37	17.24	17.25	17.23						
15	64QAM	1	74	17.14	17.24	17.19						
15	64QAM	36	0	17.18	17.24	17.15	18.5	0				
15	64QAM	36	20	16.90	17.23	17.09						
15	64QAM	36	39	16.97	17.23	16.88						
15	64QAM	75	0	17.07	17.23	17.19						
Channel												
Frequency (MHz)												
10	QPSK	1	0	17.16	17.28	17.20	18.5	0				
10	QPSK	1	25	17.09	17.17	17.15						
10	QPSK	1	49	16.89	17.18	17.03						
10	QPSK	25	0	17.03	17.26	17.14						
10	QPSK	25	12	16.89	17.21	17.10	18.5	0				
10	QPSK	25	25	17.01	17.01	17.10						
10	QPSK	50	0	17.06	17.12	17.04						
10	16QAM	1	0	17.22	17.21	17.18						
10	16QAM	1	25	17.10	17.13	17.09	18.5	0				
10	16QAM	1	49	17.29	17.24	17.23						
10	16QAM	25	0	17.06	17.17	17.31						
10	16QAM	25	12	17.09	17.29	17.17						
10	16QAM	25	25	16.85	17.14	16.91	18.5	0				
10	16QAM	50	0	17.14	17.18	17.21						
10	64QAM	1	0	17.25	17.20	17.23						
10	64QAM	1	25	17.21	17.29	17.13						
10	64QAM	1	49	17.12	17.31	17.11	18.5	0				
10	64QAM	25	0	17.10	17.27	17.17						
10	64QAM	25	12	16.93	17.24	17.07						
10	64QAM	25	25	16.90	17.29	16.87						
10	64QAM	50	0	16.91	17.12	17.15	18.5	0				
Channel												
Frequency (MHz)												
5	QPSK	1	0	17.08	17.26	17.24				18.5	0	
5	QPSK	1	12	17.03	17.16	17.21						
5	QPSK	1	25	16.99	17.17	17.00						
5	QPSK	12	0	16.98	17.17	17.09						
5	QPSK	12	7	16.86	17.22	17.11	18.5	0				
5	QPSK	12	13	17.06	17.01	17.15						
5	QPSK	25	0	17.18	17.23	17.14						
5	16QAM	1	0	17.13	17.22	17.19						
5	16QAM	1	12	17.11	17.15	17.21	18.5	0				
5	16QAM	1	24	17.26	17.25	17.21						
5	16QAM	12	0	17.07	17.20	17.29						
5	16QAM	12	7	17.04	17.27	17.14						
5	16QAM	12	13	16.97	17.16	16.88	18.5	0				
5	16QAM	25	0	17.16	17.20	17.21						
5	64QAM	1	0	17.17	17.21	17.27						
5	64QAM	1	12	17.23	17.24	17.16						
5	64QAM	1	24	17.14	17.20	17.17	18.5	0				
5	64QAM	12	0	17.11	17.17	17.24						
5	64QAM	12	7	16.99	17.24	16.86						
5	64QAM	12	13	16.89	17.30	16.89						
5	64QAM	25	0	16.93	17.15	17.11	18.5	0				
Channel												
Frequency (MHz)												
3	QPSK	1	0	17.04	17.25	17.17				18.5	0	
3	QPSK	1	8	16.95	17.23	17.15						
3	QPSK	1	14	16.87	17.25	17.03						
3	QPSK	8	0	17.06	17.19	17.09						
3	QPSK	8	4	16.80	17.16	17.09	18.5	0				
3	QPSK	8	7	16.97	17.13	17.07						
3	QPSK	15	0	17.06	17.24	17.10						
3	16QAM	1	0	17.23	17.29	17.17						
3	16QAM	1	8	17.05	17.23	17.10	18.5	0				
3	16QAM	1	14	17.28	17.17	17.20						
3	16QAM	8	0	17.04	17.13	17.26						
3	16QAM	8	4	17.03	17.22	17.17						
3	16QAM	8	7	16.94	17.14	16.99	18.5	0				
3	16QAM	15	0	17.07	17.29	17.17						
3	64QAM	1	0	17.14	17.22	17.30						
3	64QAM	1	8	17.27	17.18	17.19						
3	64QAM	1	14	17.09	17.25	17.19	18.5	0				
3	64QAM	8	0	17.15	17.15	17.17						
3	64QAM	8	4	16.96	17.29	17.09						
3	64QAM	8	7	16.90	17.24	16.90						
3	64QAM	15	0	16.99	17.17	17.11	18.5	0				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	17.15	17.30	17.11				18.5	0	
1.4	QPSK	1	3	17.04	17.22	17.11						
1.4	QPSK	1	5	16.97	17.17	17.05						
1.4	QPSK	3	0	16.98	17.28	17.21						
1.4	QPSK	3	1	16.84	17.18	17.12	18.5	0				
1.4	QPSK	3	3	16.99	17.10	17.05						
1.4	QPSK	6	0	17.16	17.23	17.07						
1.4	16QAM	1	0	17.25	17.30	17.21						
1.4	16QAM	1	3	17.09	17.19	17.20	18.5	0				
1.4	16QAM	1	5	17.24	17.17	17.13						
1.4	16QAM	3	0	17.06	17.21	17.29						
1.4	16QAM	3	1	17.09	17.30	17.12						
1.4	16QAM	3	3	16.88	17.14	16.98	18.5	0				
1.4	16QAM	6	0	17.16	17.17	17.15						
1.4	64QAM	1	0	17.23	17.30	17.24						
1.4	64QAM	1	3	17.25	17.24	17.16						
1.4	64QAM	1	5	17.17	17.21	17.13	18.5	0				
1.4	64QAM	3	0	17.20	17.21	17.20						
1.4	64QAM	3	1	16.91	17.22	17.10						
1.4	64QAM	3	3	16.98	17.28	16.81						
1.4	64QAM	6	0	16.92	17.20	17.12	18.5	0				

Band 4 ECI6 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.54	19.55	19.54	21	0	
20	QPSK	1	49	19.46	19.52	19.57			
20	QPSK	1	99	19.46	19.55	19.42			
20	QPSK	50	0	19.45	19.58	19.56			
20	QPSK	50	24	19.37	19.53	19.49	21	0	
20	QPSK	50	50	19.37	19.49	19.38			
20	QPSK	100	0	19.46	19.52	19.51			
20	16QAM	1	0	19.50	19.53	19.47			
20	16QAM	1	49	19.46	19.57	19.55	21	0	
20	16QAM	1	99	19.26	19.58	19.50			
20	16QAM	50	0	19.27	19.50	19.55			
20	16QAM	50	24	19.44	19.37	19.45			
20	16QAM	50	50	19.44	19.52	19.37	21	0	
20	16QAM	100	0	19.27	19.57	19.40			
20	64QAM	1	0	19.45	19.52	19.48			
20	64QAM	1	49	19.48	19.48	19.38			
20	64QAM	1	99	19.23	19.51	19.44	21	0	
20	64QAM	50	0	19.38	19.50	19.42			
20	64QAM	50	24	19.48	19.51	19.51			
20	64QAM	50	50	19.42	19.50	19.46			
20</									



Band 12 ECI6 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.70	22.72	22.74	24	0	
10	QPSK	1	25	22.55	22.66	22.49			
10	QPSK	1	49	22.65	22.67	22.62			
10	QPSK	25	0	21.59	21.82	21.68	23	1	
10	QPSK	25	12	21.53	21.54	21.58			
10	QPSK	25	25	21.71	21.73	21.55			
10	QPSK	50	0	21.49	21.69	21.54	23	1	
10	16QAM	1	0	21.82	22.02	22.01			
10	16QAM	1	25	21.64	21.76	21.76			
10	16QAM	1	49	21.74	21.91	21.88	22	2	
10	16QAM	25	0	20.64	20.88	20.71			
10	16QAM	25	12	20.60	20.60	20.69			
10	16QAM	25	25	20.59	20.71	20.45	22	2	
10	16QAM	50	0	20.58	20.66	20.42			
10	84QAM	1	0	20.70	20.98	20.95			
10	84QAM	1	25	20.53	20.68	20.84	22	2	
10	84QAM	1	49	20.66	20.85	20.80			
10	84QAM	25	0	19.60	19.88	19.69			
10	84QAM	25	12	19.56	19.64	19.64	21	3	
10	84QAM	25	25	19.51	19.77	19.56			
10	84QAM	50	0	19.47	19.60	19.33			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.51	22.68	22.51	24	0	
5	QPSK	1	12	22.53	22.46	22.29			
5	QPSK	1	24	22.49	22.50	22.46			
5	QPSK	12	0	21.35	21.71	21.51	23	1	
5	QPSK	12	7	21.45	21.37	21.36			
5	QPSK	12	13	21.65	21.72	21.51			
5	QPSK	25	0	21.41	21.60	21.37	23	1	
5	16QAM	1	0	21.73	21.87	21.87			
5	16QAM	1	12	21.54	21.76	21.58			
5	16QAM	1	24	21.71	21.76	21.85	22	2	
5	16QAM	12	0	20.61	20.85	20.51			
5	16QAM	12	7	20.56	20.40	20.62			
5	16QAM	12	13	20.53	20.55	20.39	22	2	
5	16QAM	25	0	20.37	20.52	20.19			
5	64QAM	1	0	20.45	20.85	20.79			
5	64QAM	1	12	20.48	20.60	20.75	22	2	
5	64QAM	1	24	20.63	20.73	20.79			
5	64QAM	12	0	19.43	19.83	19.54			
5	64QAM	12	7	19.51	19.46	19.46	21	3	
5	64QAM	12	13	19.39	19.58	19.58			
5	64QAM	25	0	19.34	19.39	19.26			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.57	22.64	22.80	24	0	
3	QPSK	1	8	22.48	22.45	22.34			
3	QPSK	1	14	22.52	22.49	22.49			
3	QPSK	8	0	21.39	21.79	21.65	23	1	
3	QPSK	8	4	21.50	21.31	21.54			
3	QPSK	8	7	21.67	21.54	21.53			
3	QPSK	15	0	21.29	21.53	21.30	23	1	
3	16QAM	1	0	21.66	21.79	21.65			
3	16QAM	1	8	21.47	21.76	21.58			
3	16QAM	1	14	21.69	21.85	21.78	22	2	
3	16QAM	8	0	20.53	20.61	20.51			
3	16QAM	8	4	20.37	20.58	20.60			
3	16QAM	8	7	20.49	20.46	20.42	22	2	
3	16QAM	15	0	20.51	20.57	20.31			
3	84QAM	1	0	20.53	20.86	20.76			
3	84QAM	1	8	20.48	20.51	20.72	21	3	
3	84QAM	1	14	20.62	20.70	20.60			
3	84QAM	8	0	19.41	19.83	19.48			
3	84QAM	8	4	19.49	19.54	19.40	21	3	
3	84QAM	8	7	19.42	19.74	19.53			
3	84QAM	15	0	19.36	19.58	19.23			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.41	22.66	22.48	24	0	
1.4	QPSK	1	3	22.33	22.39	22.25			
1.4	QPSK	1	5	22.46	22.44	22.28			
1.4	QPSK	3	0	22.37	22.65	22.46	23	1	
1.4	QPSK	3	1	22.46	22.31	22.15			
1.4	QPSK	3	3	22.31	22.40	22.51			
1.4	QPSK	6	0	21.46	21.83	21.42	23	1	
1.4	16QAM	1	0	21.77	21.78	21.83			
1.4	16QAM	1	3	21.59	21.63	21.64			
1.4	16QAM	1	5	21.56	21.79	21.79	23	1	
1.4	16QAM	3	0	21.75	21.76	21.65			
1.4	16QAM	3	1	21.50	21.41	21.83			
1.4	16QAM	3	3	21.42	21.78	21.69	22	2	
1.4	16QAM	6	0	20.54	20.72	20.88			
1.4	64QAM	1	0	20.60	20.76	20.70			
1.4	64QAM	1	3	20.40	20.59	20.62	22	2	
1.4	84QAM	1	5	20.56	20.75	20.67			
1.4	84QAM	3	0	20.55	20.67	20.59			
1.4	84QAM	3	0	20.26	20.37	20.46	21	3	
1.4	84QAM	3	3	20.43	20.74	20.67			
1.4	84QAM	6	0	19.38	19.59	19.15			

Band 13 ECI6 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.75	22.75	22.75	24	0	
10	QPSK	1	25	22.70	22.70	22.70			
10	QPSK	1	49	22.73	22.73	22.73			
10	QPSK	25	0	21.57	21.57	21.57	23	1	
10	QPSK	25	12	21.51	21.51	21.51			
10	QPSK	25	25	21.54	21.54	21.54			
10	QPSK	50	0	21.76	21.76	21.76	23	1	
10	16QAM	1	0	21.93	21.93	21.93			
10	16QAM	1	25	21.83	21.83	21.83			
10	16QAM	1	49	21.89	21.89	21.89	22	2	
10	16QAM	25	0	20.59	20.59	20.59			
10	16QAM	25	12	20.41	20.41	20.41			
10	16QAM	25	25	20.53	20.53	20.53	22	2	
10	16QAM	50	0	20.73	20.73	20.73			
10	84QAM	1	0	20.87	20.87	20.87			
10	84QAM	1	25	20.61	20.61	20.61	22	2	
10	84QAM	1	49	20.70	20.70	20.70			
10	84QAM	25	0	19.59	19.59	19.59			
10	84QAM	25	12	19.63	19.63	19.63	21	3	
10	84QAM	25	25	19.56	19.56	19.56			
10	84QAM	50	0	19.72	19.72	19.72			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.64	22.73	22.72	24	0	
5	QPSK	1	12	22.68	22.62	22.63			
5	QPSK	1	24	22.74	22.74	22.67			
5	QPSK	12	0	21.54	21.57	21.42	23	1	
5	QPSK	12	7	21.50	21.46	21.35			
5	QPSK	12	13	21.51	21.34	21.47			
5	QPSK	25	0	21.76	21.56	21.59	23	1	
5	16QAM	1	0	21.87	21.85	21.82			
5	16QAM	1	12	21.69	21.76	21.85			
5	16QAM	1	24	21.89	21.88	21.81	22	2	
5	16QAM	12	0	20.51	20.42	20.58			
5	16QAM	12	7	20.38	20.40	20.21			
5	16QAM	12	13	20.47	20.39	20.37	22	2	
5	16QAM	25	0	20.72	20.63	20.53			
5	64QAM	1	0	20.73	20.71	20.70			
5	64QAM	1	12	20.41	20.62	20.63	22	2	
5	64QAM	1	24	20.61	20.70	20.62			
5	64QAM	12	0	19.46	19.55	19.56			
5	64QAM	12	7	19.51	19.45	19.59	21	3	
5	64QAM	12	13	19.47	19.51	19.42			
5	64QAM	25	0	19.56	19.53	19.66			

Band 14 ECI6 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.77	22.77	22.77	24	0	
10	QPSK	1	25	22.75	22.75	22.75			
10	QPSK	1	49	22.70	22.70	22.70			
10	QPSK	25	0	21.80	21.80	21.80	23	1	
10	QPSK	25	12	21.68	21.68	21.68			
10	QPSK	25	25	21.65	21.65	21.65			
10	QPSK	50	0	21.78	21.78	21.78	23	1	
10	16QAM	1	0	22.04	22.04	22.04			
10	16QAM	1	25	21.90	21.90	21.90			
10	16QAM	1	49	21.87	21.87	21.87	22	2	
10	16QAM	25	0	20.78	20.78	20.78			
10	16QAM	25	12	20.57	20.57	20.57			
10	16QAM	25	25	20.65	20.65	20.65	22	2	
10	16QAM	50	0	20.76	20.76	20.76			
10	84QAM	1	0	20.92	20.92	20.92			



Band 17 ECI6 Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				23780	23790	23800		
				710	710	713		
10	QPSK	1	0	22.60	22.69	22.64		
10	QPSK	1	25	22.48	22.64	22.53	24	0
10	QPSK	1	49	22.49	22.58	22.45		
10	QPSK	25	0	21.70	21.89	21.85		
10	QPSK	25	12	21.72	21.82	21.79	23	1
10	QPSK	25	25	21.61	21.79	21.60		
10	QPSK	50	0	21.68	21.89	21.82		
10	16QAM	1	0	21.86	21.97	21.80		
10	16QAM	1	25	21.69	21.72	21.73	23	1
10	16QAM	1	49	21.75	21.70	21.71		
10	16QAM	25	0	20.64	20.93	20.93		
10	16QAM	25	12	20.74	20.73	20.82	22	2
10	16QAM	25	25	20.69	20.89	20.88		
10	16QAM	50	0	20.78	20.90	20.86		
10	64QAM	1	0	20.90	20.96	20.89		
10	64QAM	1	25	20.80	20.75	20.84	22	2
10	64QAM	1	49	20.84	20.82	20.88		
10	64QAM	25	0	19.88	19.85	19.98		
10	64QAM	25	12	19.91	19.84	19.88	21	3
10	64QAM	25	25	19.77	19.93	19.99		
10	64QAM	50	0	19.89	19.87	19.84		
Channel								
Frequency (MHz)				23785	23790	23825		
				706.5	710	713.5		
5	QPSK	1	0	22.48	22.61	22.64		
5	QPSK	1	12	22.31	22.49	22.50	24	0
5	QPSK	1	24	22.27	22.39	22.37		
5	QPSK	12	0	21.52	21.86	21.64		
5	QPSK	12	7	21.51	21.80	21.66	23	1
5	QPSK	12	13	21.40	21.76	21.80		
5	QPSK	25	0	21.70	21.83	21.85		
5	16QAM	1	0	21.77	21.86	21.75		
5	16QAM	1	12	21.64	21.70	21.53	23	1
5	16QAM	1	24	21.60	21.69	21.61		
5	16QAM	12	0	20.43	20.87	20.91		
5	16QAM	12	7	20.76	20.54	20.76	22	2
5	16QAM	12	13	20.71	20.80	20.54		
5	16QAM	25	0	20.77	20.81	20.79		
5	64QAM	1	0	20.74	20.90	20.85		
5	64QAM	1	12	20.60	20.70	20.81	22	2
5	64QAM	1	24	20.83	20.64	20.66		
5	64QAM	12	0	19.70	19.67	19.94		
5	64QAM	12	7	19.78	19.85	19.56	21	3
5	64QAM	12	13	19.63	19.85	19.58		
5	64QAM	25	0	19.75	19.80	19.62		

Band 25 ECI6 Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				26140	26340	26590		
				1850	1850	1905		
20	QPSK	1	0	17.12	17.35	17.25		
20	QPSK	1	49	17.09	17.23	17.30	18.5	0
20	QPSK	1	99	17.11	17.30	17.15		
20	QPSK	50	0	17.13	17.34	17.29		
20	QPSK	50	24	17.22	17.18	17.23	18.5	0
20	QPSK	50	50	17.09	17.18	17.20		
20	QPSK	100	0	17.02	17.31	17.26		
20	16QAM	1	0	17.32	17.35	17.34		
20	16QAM	1	49	17.17	17.35	17.33	18.5	0
20	16QAM	1	99	17.20	17.30	17.24		
20	16QAM	50	0	17.08	17.34	17.23		
20	16QAM	50	24	17.04	17.30	17.19	18.5	0
20	16QAM	50	50	16.99	17.07	17.31		
20	16QAM	100	0	17.00	17.34	17.14		
20	64QAM	1	0	17.15	17.14	17.25		
20	64QAM	1	49	16.99	17.17	17.20	18.5	0
20	64QAM	1	99	16.91	17.07	17.04		
20	64QAM	50	0	17.04	17.32	17.30		
20	64QAM	50	24	17.25	17.35	17.14	18.5	0
20	64QAM	50	50	16.98	17.07	17.24		
20	64QAM	100	0	17.00	17.30	17.13		
Channel								
Frequency (MHz)				26115	26340	26615		
				1857.5	1880	1907.5		
15	QPSK	1	0	17.03	17.34	17.22		
15	QPSK	1	37	17.08	17.15	17.27	18.5	0
15	QPSK	1	74	17.02	17.26	17.15		
15	QPSK	36	0	17.06	17.32	17.20		
15	QPSK	36	20	17.21	17.20	17.24	18.5	0
15	QPSK	36	39	17.02	17.20	17.21		
15	QPSK	75	0	17.05	17.21	17.24		
15	16QAM	1	0	17.33	17.27	17.28		
15	16QAM	1	37	17.22	17.32	17.35	18.5	0
15	16QAM	1	74	17.14	17.22	17.22		
15	16QAM	36	0	17.07	17.31	17.14		
15	16QAM	36	20	16.98	17.28	17.15	18.5	0
15	16QAM	36	39	16.91	17.01	17.21		
15	16QAM	75	0	16.95	17.27	17.07		
15	64QAM	1	0	17.09	17.07	17.23		
15	64QAM	1	37	16.93	17.13	17.10	18.5	0
15	64QAM	1	74	16.87	17.02	16.98		
15	64QAM	36	0	17.04	17.23	17.22		
15	64QAM	36	20	17.16	17.32	17.18	18.5	0
15	64QAM	36	39	16.94	16.99	17.18		
15	64QAM	75	0	16.96	17.31	17.08		
Channel								
Frequency (MHz)				26080	26340	26540		
				1855	1880	1910		
10	QPSK	1	0	17.03	17.34	17.21		
10	QPSK	1	25	17.01	17.25	17.32	18.5	0
10	QPSK	1	49	17.07	17.22	17.07		
10	QPSK	25	0	17.17	17.33	17.30		
10	QPSK	25	12	17.15	17.13	17.22	18.5	0
10	QPSK	25	25	16.99	17.18	17.12		
10	QPSK	50	0	17.05	17.29	17.24		
10	16QAM	1	0	17.23	17.30	17.29		
10	16QAM	1	25	17.34	17.29	17.25	18.5	0
10	16QAM	1	49	17.19	17.26	17.21		
10	16QAM	25	0	17.12	17.17	17.14		
10	16QAM	25	12	16.99	17.27	17.21	18.5	0
10	16QAM	25	25	17.01	17.08	17.33		
10	16QAM	50	0	17.01	17.17	17.16		
10	16QAM	1	0	17.10	17.09	17.15		
10	64QAM	1	25	17.02	17.09	17.17	18.5	0
10	64QAM	1	49	16.81	16.97	16.98		
10	64QAM	25	0	17.01	17.23	17.21		
10	64QAM	25	12	17.17	17.27	17.18	18.5	0
10	64QAM	25	25	16.89	17.01	17.14		
10	64QAM	50	0	16.96	17.30	17.03		
Channel								
Frequency (MHz)				26065	26340	26665		
				1852.5	1880	1912.5		
5	QPSK	1	0	17.10	17.30	17.17		
5	QPSK	1	12	17.05	17.17	17.22	18.5	0
5	QPSK	1	24	17.15	17.31	17.11		
5	QPSK	12	0	17.14	17.26	17.20		
5	QPSK	12	7	17.19	17.14	17.15	18.5	0
5	QPSK	12	13	17.03	17.12	17.22		
5	QPSK	25	0	16.94	17.35	17.21		
5	16QAM	1	0	17.24	17.30	17.26		
5	16QAM	1	12	17.29	17.27	17.30	18.5	0
5	16QAM	1	24	17.22	17.32	17.24		
5	16QAM	12	0	17.11	17.35	17.21		
5	16QAM	12	7	16.97	17.26	17.11	18.5	0
5	16QAM	12	13	16.98	17.01	17.31		
5	16QAM	25	0	16.92	17.29	17.14		
5	64QAM	1	0	17.14	17.10	17.27		
5	64QAM	1	12	17.02	17.13	17.22	18.5	0
5	64QAM	1	24	16.94	17.05	16.98		
5	64QAM	12	0	17.07	17.26	17.20		
5	64QAM	12	7	17.16	17.35	17.10	18.5	0
5	64QAM	12	13	17.01	16.98	17.20		
5	64QAM	25	0	16.95	17.34	17.09		
Channel								
Frequency (MHz)				26055	26340	26675		
				1851.5	1880	1913.5		
3	QPSK	1	0	17.10	17.32	17.22		
3	QPSK	1	8	17.12	17.27	17.25	18.5	0
3	QPSK	1	14	17.06	17.31	17.09		
3	QPSK	8	0	17.10	17.35	17.27		
3	QPSK	8	4	17.20	17.12	17.14	18.5	



Band 66 ECI6 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	19.52	19.51	19.58	21	0	
20	QPSK	1	49	19.41	19.51	19.46			
20	QPSK	1	99	19.33	19.49	19.32			
20	QPSK	50	0	19.49	19.57	19.54			
20	QPSK	50	24	19.46	19.50	19.27			
20	QPSK	50	50	19.35	19.43	19.24	21	0	
20	QPSK	100	0	19.45	19.55	19.43			
20	16QAM	1	0	19.37	19.55	19.50			
20	16QAM	1	49	19.45	19.50	19.35	21	0	
20	16QAM	1	99	19.41	19.36	19.31			
20	16QAM	50	0	19.57	19.60	19.54			
20	16QAM	50	24	19.58	19.51	19.43			
20	16QAM	50	50	19.48	19.58	19.48	21	0	
20	16QAM	100	0	19.33	19.55	19.39			
20	64QAM	1	0	19.59	19.60	19.57			
20	64QAM	1	49	19.54	19.60	19.43	21	0	
20	64QAM	1	99	19.31	19.39	19.52			
20	64QAM	50	0	19.53	19.57	19.52			
20	64QAM	50	24	19.53	19.55	19.41	21	0	
20	64QAM	50	50	19.58	19.50	19.53			
20	64QAM	100	0	19.54	19.57	19.55			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	19.56	19.57	19.58	21	0	
15	QPSK	1	37	19.41	19.55	19.50			
15	QPSK	1	74	19.32	19.49	19.25			
15	QPSK	36	0	19.54	19.52	19.51			
15	QPSK	36	20	19.45	19.55	19.22	21	0	
15	QPSK	36	39	19.39	19.38	19.28			
15	QPSK	75	0	19.44	19.60	19.40			
15	16QAM	1	0	19.41	19.55	19.47			
15	16QAM	1	37	19.43	19.56	19.37	21	0	
15	16QAM	1	74	19.35	19.36	19.31			
15	16QAM	36	0	19.54	19.56	19.47			
15	16QAM	36	20	19.60	19.50	19.47	21	0	
15	16QAM	36	39	19.47	19.51	19.46			
15	16QAM	75	0	19.38	19.59	19.35			
15	64QAM	1	0	19.56	19.57	19.53			
15	64QAM	1	37	19.53	19.55	19.41	21	0	
15	64QAM	1	74	19.34	19.37	19.51			
15	64QAM	36	0	19.51	19.55	19.49			
15	64QAM	36	20	19.43	19.60	19.34	21	0	
15	64QAM	36	39	19.50	19.52	19.51			
15	64QAM	75	0	19.54	19.38	19.55			
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	19.48	19.59	19.58	21	0	
10	QPSK	1	25	19.45	19.49	19.43			
10	QPSK	1	49	19.35	19.42	19.31			
10	QPSK	25	0	19.50	19.54	19.46			
10	QPSK	25	12	19.48	19.44	19.25	21	0	
10	QPSK	25	25	19.39	19.41	19.23			
10	QPSK	50	0	19.49	19.53	19.41			
10	16QAM	1	0	19.30	19.57	19.51	21	0	
10	16QAM	1	25	19.37	19.56	19.30			
10	16QAM	1	49	19.41	19.26	19.34			
10	16QAM	25	0	19.53	19.52	19.47			
10	16QAM	25	12	19.50	19.46	19.47	21	0	
10	16QAM	25	25	19.44	19.59	19.47			
10	16QAM	50	0	19.29	19.47	19.38			
10	64QAM	1	0	19.54	19.57	19.50			
10	64QAM	1	25	19.60	19.52	19.34	21	0	
10	64QAM	1	49	19.22	19.33	19.50			
10	64QAM	25	0	19.53	19.54	19.43			
10	64QAM	25	12	19.54	19.54	19.20	21	0	
10	64QAM	25	25	19.53	19.30	19.48			
10	64QAM	50	0	19.34	19.52	19.34			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	19.52	19.56	19.51	21	0	
5	QPSK	1	12	19.43	19.51	19.40			
5	QPSK	1	24	19.33	19.53	19.28			
5	QPSK	12	0	19.41	19.60	19.55			
5	QPSK	12	7	19.36	19.45	19.23	21	0	
5	QPSK	12	13	19.28	19.35	19.23			
5	QPSK	25	0	19.43	19.50	19.33			
5	16QAM	1	0	19.36	19.56	19.54			
5	16QAM	1	12	19.49	19.53	19.35	21	0	
5	16QAM	1	24	19.32	19.38	19.34			
5	16QAM	12	0	19.60	19.55	19.48			
5	16QAM	12	7	19.55	19.49	19.36	21	0	
5	16QAM	12	13	19.40	19.57	19.39			
5	16QAM	25	0	19.31	19.47	19.31			
5	64QAM	1	0	19.52	19.58	19.53			
5	64QAM	1	12	19.51	19.51	19.33	21	0	
5	64QAM	1	24	19.26	19.30	19.52			
5	64QAM	12	0	19.57	19.45	19.40			
5	64QAM	12	7	19.44	19.60	19.32	21	0	
5	64QAM	12	13	19.58	19.35	19.42			
5	64QAM	25	0	19.37	19.37	19.34			
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	19.43	19.56	19.55	21	0	
3	QPSK	1	8	19.43	19.51	19.38			
3	QPSK	1	14	19.28	19.47	19.31			
3	QPSK	8	0	19.48	19.59	19.54			
3	QPSK	8	4	19.44	19.50	19.29	21	0	
3	QPSK	8	7	19.27	19.37	19.24			
3	QPSK	15	0	19.48	19.52	19.46			
3	16QAM	1	0	19.32	19.50	19.51			
3	16QAM	1	8	19.37	19.53	19.36	21	0	
3	16QAM	1	14	19.36	19.27	19.30			
3	16QAM	8	0	19.50	19.60	19.45			
3	16QAM	8	4	19.51	19.52	19.38	21	0	
3	16QAM	8	7	19.51	19.48	19.42			
3	16QAM	15	0	19.27	19.48	19.39			
3	64QAM	1	0	19.51	19.51	19.52			
3	64QAM	1	8	19.57	19.60	19.43	21	0	
3	64QAM	1	14	19.25	19.35	19.46			
3	64QAM	8	0	19.46	19.47	19.35			
3	64QAM	8	4	19.50	19.56	19.32	21	0	
3	64QAM	8	7	19.54	19.51	19.33			
3	64QAM	15	0	19.39	19.55	19.38			
Channel				131979	132322	132669			
Frequency (MHz)				1710.7	1745	1779.2			
1.4	QPSK	1	0	19.45	19.55	19.51	21	0	
1.4	QPSK	1	3	19.40	19.54	19.40			
1.4	QPSK	1	5	19.26	19.46	19.23			
1.4	QPSK	3	0	19.44	19.52	19.48			
1.4	QPSK	3	1	19.35	19.42	19.49			
1.4	QPSK	3	3	19.29	19.48	19.30	21	0	
1.4	QPSK	6	0	19.44	19.47	19.49			
1.4	16QAM	1	0	19.47	19.52	19.28			
1.4	16QAM	1	3	19.39	19.36	19.28			
1.4	16QAM	1	5	19.40	19.47	19.36	21	0	
1.4	16QAM	3	0	19.36	19.52	19.43			
1.4	16QAM	3	1	19.48	19.52	19.48			
1.4	16QAM	3	3	19.37	19.39	19.32	21	0	
1.4	16QAM	6	0	19.60	19.54	19.49			
1.4	64QAM	1	0	19.54	19.43	19.35			
1.4	64QAM	1	3	19.50	19.54	19.47			
1.4	64QAM	1	5	19.25	19.56	19.37	21	0	
1.4	64QAM	3	0	19.58	19.54	19.53			
1.4	64QAM	3	1	19.55	19.56	19.43			
1.4	64QAM	3	3	19.25	19.39	19.42			
1.4	64QAM	6	0	19.52	19.55	19.50	21	0	

Band 71 ECI6 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	



Band 7 EC16 Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	18.85	19.06	18.60	20.5	0		
20	QPSK	1	49	18.91	19.02	18.62				
20	QPSK	1	99	18.80	19.04	18.63				
20	QPSK	50	0	18.89	19.02	18.74	20.5	0		
20	QPSK	50	24	18.72	19.01	18.56				
20	QPSK	50	50	18.78	18.92	18.87				
20	QPSK	100	0	18.76	18.95	18.82	20.5	0		
20	16QAM	1	0	18.92	19.01	19.00				
20	16QAM	1	49	19.00	19.01	18.97				
20	16QAM	1	99	18.94	19.02	18.94	20.5	0		
20	16QAM	50	0	19.05	18.97	18.79				
20	16QAM	50	24	18.68	19.04	18.66				
20	16QAM	50	50	18.76	18.86	18.74	20.5	0		
20	16QAM	100	0	18.97	18.99	18.68				
20	64QAM	1	0	19.05	19.05	19.02				
20	64QAM	1	49	19.00	19.04	18.91	20.5	0		
20	64QAM	1	99	18.99	18.97	18.90				
20	64QAM	50	0	19.01	18.92	18.74				
20	64QAM	50	24	18.84	18.87	18.62	20.5	0		
20	64QAM	50	50	18.86	18.83	18.80				
20	64QAM	100	0	18.93	18.95	18.63				
Channel				20825	21100	21375				
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	18.96	19.04	18.60	20.5	0		
15	QPSK	1	37	18.91	19.05	18.56				
15	QPSK	1	74	18.76	19.01	18.59				
15	QPSK	36	0	18.91	19.00	18.66	20.5	0		
15	QPSK	36	20	18.68	18.99	18.60				
15	QPSK	36	39	18.76	18.93	18.84				
15	QPSK	75	0	18.74	18.89	18.87	20.5	0		
15	16QAM	1	0	18.92	19.04	18.94				
15	16QAM	1	37	18.93	19.03	18.92				
15	16QAM	1	74	18.90	18.95	18.88	20.5	0		
15	16QAM	36	0	18.98	18.97	18.78				
15	16QAM	36	20	18.66	19.04	18.66				
15	16QAM	36	39	18.70	18.79	18.78	20.5	0		
15	16QAM	75	0	18.91	18.91	18.62				
15	64QAM	1	0	19.01	19.01	19.00				
15	64QAM	1	37	18.98	18.99	18.93	20.5	0		
15	64QAM	1	74	19.04	18.99	18.85				
15	64QAM	36	0	19.03	18.95	18.78				
15	64QAM	36	20	18.85	18.92	18.65	20.5	0		
15	64QAM	36	39	18.87	18.79	18.73				
15	64QAM	75	0	18.89	18.97	18.84				
Channel				20800	21100	21400				
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	18.79	19.04	18.61	20.5	0		
10	QPSK	1	25	18.88	19.05	18.68				
10	QPSK	1	49	18.73	19.02	18.57				
10	QPSK	25	0	18.89	18.95	18.80	20.5	0		
10	QPSK	25	12	18.70	18.95	18.57				
10	QPSK	25	25	18.74	18.91	18.80				
10	QPSK	50	0	18.73	18.89	18.75	20.5	0		
10	16QAM	1	0	18.97	19.04	18.92				
10	16QAM	1	25	19.00	19.02	18.96				
10	16QAM	1	49	18.90	19.05	18.95	20.5	0		
10	16QAM	25	0	19.03	19.02	18.76				
10	16QAM	25	12	18.65	19.00	18.61				
10	16QAM	25	25	18.79	18.80	18.74	20.5	0		
10	16QAM	50	0	19.01	18.89	18.70				
10	64QAM	1	0	18.95	18.98	18.96				
10	64QAM	1	25	18.97	19.00	18.94	20.5	0		
10	64QAM	1	49	18.99	19.02	18.90				
10	64QAM	25	0	19.01	18.92	18.74				
10	64QAM	25	12	18.88	18.92	18.55	20.5	0		
10	64QAM	25	25	18.91	18.86	18.86				
10	64QAM	50	0	18.93	18.93	18.59				
Channel				20775	21100	21425				
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	18.86	19.02	18.62	20.5	0		
5	QPSK	1	12	18.90	19.05	18.56				
5	QPSK	1	24	18.78	19.02	18.57				
5	QPSK	12	0	18.92	18.96	18.75	20.5	0		
5	QPSK	12	7	18.74	18.94	18.78				
5	QPSK	12	13	18.71	18.96	18.87				
5	QPSK	25	0	18.82	18.94	18.79	20.5	0		
5	16QAM	1	0	18.97	19.00	19.00				
5	16QAM	1	12	18.97	18.95	18.94				
5	16QAM	1	24	18.97	18.98	18.92	20.5	0		
5	16QAM	12	0	18.90	18.90	18.80				
5	16QAM	12	7	18.62	19.02	18.68				
5	16QAM	12	13	18.76	18.79	18.73	20.5	0		
5	16QAM	25	0	18.92	18.92	18.73				
5	64QAM	1	0	19.00	19.01	19.01				
5	64QAM	1	12	18.97	19.00	18.88	20.5	0		
5	64QAM	1	24	19.02	19.02	18.85				
5	64QAM	12	0	18.97	18.89	18.76				
5	64QAM	12	7	18.85	18.90	18.54	20.5	0		
5	64QAM	12	13	18.86	18.80	18.77				
5	64QAM	25	0	18.97	18.95	18.64				

Band 30 EC16 Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				27710						
Frequency (MHz)				2310						
10	QPSK	1	0		21.04		22.5	0		
10	QPSK	1	25		21.01					
10	QPSK	1	49		20.99					
10	QPSK	25	0		21.02		22.5	0		
10	QPSK	25	12		20.97					
10	QPSK	25	25		20.81					
10	QPSK	50	0		20.93		22.5	0		
10	16QAM	1	0		20.94					
10	16QAM	1	25		21.00					
10	16QAM	1	49		20.98		22	0.5		
10	16QAM	25	0		20.51					
10	16QAM	25	12		20.38					
10	16QAM	25	25		20.38		22	0.5		
10	16QAM	50	0		20.39					
10	64QAM	1	0		20.65					
10	64QAM	1	25		20.59		22	0.5		
10	64QAM	1	49		20.52					
10	64QAM	25	0		19.49					
10	64QAM	25	12		19.44		21	1.5		
10	64QAM	25	25		19.42					
10	64QAM	50	0		19.42					
Channel				27685	27710	27735				
Frequency (MHz)				2307.5	2310	2312.5				
5	QPSK	1	0	20.96	21.03	20.88	22.5	0		
5	QPSK	1	12	21.01	20.93	20.93				
5	QPSK	1	24	20.87	20.89	20.88				
5	QPSK	12	0	20.88	21.01	20.94	22.5	0		
5	QPSK	12	7	20.87	20.86	20.94				
5	QPSK	12	13	20.79	20.59	20.75				
5	QPSK	25	0	20.89	20.83	20.72	22.5	0		
5	16QAM	1	0	21.03	21.03	21.02				
5	16QAM	1	12	21.00	21.01	21.00				
5	16QAM	1	24	20.94	20.96	21.00	22	0.5		
5	16QAM	12	0	20.50	20.39	20.50				
5	16QAM	12	7	20.36	20.38	20.24				
5	16QAM	12	13	20.35	20.22	20.18	22	0.5		
5	16QAM	25	0	20.22	20.25	20.32				
5	64QAM	1	0	20.52	20.55	20.54				
5	64QAM	1	12	20.59	20.59	20.53	22	0.5		
5	64QAM	1	24	20.52	20.39	20.44				
5	64QAM	12	0	19.33	19.30	19.33				
5	64QAM	12	7	19.39	19.22	19.37	21	1.5		
5	64QAM	12	13	19.33	19.29	19.25				
5	64QAM	25	0	19.36	19.20	19.37				



Band 38 EC16 Ant1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Tune-up [dBm]	MFR [dB]				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.60	20.60	20.60	22.5	0				
20	QPSK	1	49	20.84	20.78	20.77						
20	QPSK	1	99	20.76	20.76	20.76						
20	QPSK	50	0	20.71	20.55	20.72						
20	QPSK	50	24	20.67	20.81	20.53						
20	QPSK	50	50	20.65	20.59	20.78	22.5	0				
20	QPSK	100	0	20.71	20.64	20.78						
20	QPSK	100	24	20.57	20.85	20.58						
20	QPSK	100	49	20.57	20.59	20.69						
20	QPSK	100	99	20.67	20.57	20.64						
20	HQAM	1	0	20.21	20.54	20.29	22	0.5				
20	HQAM	1	49	20.57	20.59	20.69						
20	HQAM	1	99	20.67	20.57	20.64						
20	HQAM	50	24	20.54	20.59	20.54						
20	HQAM	50	50	20.52	20.59	20.54						
20	HQAM	100	0	20.55	20.49	20.46	22	0.5				
20	HQAM	100	0	20.57	20.52	20.47						
20	HQAM	100	49	20.37	20.47	20.32						
20	HQAM	100	99	20.35	20.37	20.46						
20	HQAM	50	24	19.46	19.49	19.46						
20	HQAM	50	50	19.36	19.32	19.29	21	1.5				
20	HQAM	100	0	19.31	19.45	19.43						
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.78	20.50	20.72			22.5	0		
15	QPSK	1	37	20.65	20.64	20.76						
15	QPSK	1	74	20.63	20.76	20.76						
15	QPSK	38	0	20.57	20.85	20.54						
15	QPSK	38	38	20.53	20.60	20.71						
15	QPSK	75	0	20.75	20.76	20.69	22.5	0				
15	QPSK	75	37	20.62	20.64	20.76						
15	QPSK	75	74	20.62	20.62	20.68						
15	QPSK	38	20	20.54	20.63	20.64						
15	QPSK	38	38	20.52	20.54	20.57						
15	HQAM	1	0	20.16	20.46	20.26	22	0.5				
15	HQAM	1	37	20.67	20.62	20.58						
15	HQAM	1	74	20.54	20.63	20.64						
15	HQAM	38	20	20.54	20.54	20.57						
15	HQAM	38	38	20.52	20.51	20.55						
15	HQAM	75	0	20.17	20.31	20.25	22	1.5				
15	HQAM	75	0	20.32	20.49	20.34						
15	HQAM	75	37	20.42	20.49	20.46						
15	HQAM	75	74	20.46	20.49	20.38						
15	HQAM	38	20	19.12	19.47	19.16						
15	HQAM	38	38	19.31	19.14	19.26	21	1.5				
15	HQAM	75	0	19.16	19.30	19.31						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.89	20.82	20.74			22.5	0		
10	QPSK	1	25	20.77	20.83	20.77						
10	QPSK	1	49	20.84	20.82	20.76						
10	QPSK	25	0	20.76	20.75	20.67						
10	QPSK	25	25	20.79	20.64	20.66						
10	QPSK	50	0	20.74	20.65	20.66	22.5	0				
10	HQAM	1	0	20.52	20.78	20.61						
10	HQAM	1	25	20.52	20.76	20.65						
10	HQAM	25	0	20.13	20.40	20.22						
10	HQAM	25	25	20.51	20.39	20.47						
10	HQAM	50	0	20.34	20.50	20.30	22	0.5				
10	HQAM	50	0	20.16	20.46	20.26						
10	HQAM	50	25	20.21	20.11	20.17						
10	HQAM	1	25	20.27	20.47	20.50						
10	HQAM	1	49	20.50	20.35	20.31						
10	HQAM	36	0	19.16	19.27	19.16	21	1.5				
10	HQAM	36	0	19.34	19.28	19.24						
10	HQAM	36	36	19.31	19.14	19.26						
10	HQAM	75	0	19.17	19.18	19.23						
10	HQAM	75	0	19.31	19.41	19.43						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.73	20.55	20.72	22.5	0				
5	QPSK	1	12	20.81	20.50	20.73						
5	QPSK	1	24	20.74	20.79	20.75						
5	QPSK	12	0	20.69	20.87	20.66						
5	QPSK	12	7	20.70	20.76	20.66						
5	QPSK	12	13	20.69	20.69	20.76	22.5	0				
5	QPSK	25	0	20.73	20.78	20.70						
5	QPSK	1	0	20.59	20.63	20.50						
5	HQAM	1	12	20.52	20.62	20.67						
5	HQAM	1	24	20.56	20.55	20.58						
5	HQAM	12	0	20.11	20.51	20.11	22	0.5				
5	HQAM	12	7	20.45	20.29	20.23						
5	HQAM	12	13	20.11	20.27	20.14						
5	HQAM	25	0	20.15	20.46	20.29						
5	HQAM	25	12	20.59	20.59	20.45						
5	HQAM	1	12	20.42	20.53	20.53	22	0.5				
5	HQAM	1	24	20.51	20.43	20.46						
5	HQAM	12	0	19.09	19.30	19.04						
5	HQAM	12	7	19.46	19.38	19.42						
5	HQAM	12	13	19.22	19.13	19.09			21	1.5		
5	HQAM	25	0	19.10	19.40	19.45						

Band 41 EC16 Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Tune-up [dBm]	MFR [dB]		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.96	20.95	21.03	22.5	0		
20	QPSK	1	49	20.79	20.80	21.10				
20	QPSK	1	99	20.78	20.96	20.98				
20	QPSK	50	0	20.94	21.00	21.05				
20	QPSK	50	24	20.77	20.92	20.95				
20	QPSK	50	50	20.83	20.88	21.01	22.5	0		
20	QPSK	100	0	20.79	21.05	21.07				
20	QPSK	100	24	20.86	21.05	21.10				
20	QPSK	100	49	20.75	20.95	21.03				
20	QPSK	100	99	20.84	20.83	21.02				
20	HQAM	1	0	20.38	20.58	20.61	22	0.5		
20	HQAM	1	49	20.78	20.54	20.41				
20	HQAM	1	99	20.84	20.83	21.02				
20	HQAM	50	24	20.38	20.58	20.61				
20	HQAM	50	50	20.12	20.26	20.62				
20	HQAM	100	0	20.44	20.45	20.55	22	0.5		
20	HQAM	100	0	20.37	20.40	20.55				
20	HQAM	100	49	20.19	20.36	20.83				
20	HQAM	100	99	20.33	20.42	20.45				
20	HQAM	50	24	19.31	19.44	19.55				
20	HQAM	50	24	19.35	19.36	19.30	21	1.5		
20	HQAM	50	50	19.19	19.34	19.50				
20	HQAM	100	0	19.42	19.46	19.41				
20	HQAM	100	0	19.31	19.39	19.34				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.93	20.96	21.05	23	0		
15	QPSK	1	37	20.74	20.82	21.08				
15	QPSK	1	74	20.73	20.86	20.98				
15	QPSK	38	0	20.82	20.91	21.07				
15	QPSK	38	38	20.70	20.81	20.87				
15	QPSK	75	0	20.73	20.67	21.06	22.5	0		
15	QPSK	75	0	20.80	20.88	20.99				
15	QPSK	75	37	20.78	20.86	20.97				
15	QPSK	75	74	20.66	20.75	20.80				
15	QPSK	38	20	20.76	20.90	20.92				
15	HQAM	1	0	20.36	20.56	20.57	22	0.5		
15	HQAM	1	37	20.66	20.75	20.80				
15	HQAM	1	74	20.76	20.90	20.92				
15	HQAM	38	0	20.36	20.56	20.57				
15	HQAM	38	38	20.34	20.28	20.33				
15	HQAM	75	0	20.43	20.40	20.59	22	0.5		
15	HQAM	75	0	20.43	20.35	20.58				
15	HQAM	75	37	20.29	20.40	20.61				
15	HQAM	75	74	20.32	20.44	20.43				
15	HQAM	38	20	19.36	19.48	19.51				
15	HQAM	38	38	19.29	19.32	19.31	21	1.5		
15	HQAM	38	38	19.16	19.34	19.53				
15	HQAM	75	0	19.35	19.39	19.50				
15	HQAM	75	0	19.45	19.44	19.57				
15	HQAM	75	0	19.35	19.39	19.50				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.91	20.97	20.93	23	0		
10	QPSK	1	25	20.75	20.82	21.03				
10	QPSK	1	49	20.83	20.90	20.97				
10	QPSK	25	0	20.77	20.77	20.80				
10	QPSK	25	25	20.7						



Band 41 ECI6 Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.68	21.03	21.09	20.86	20.66	21.5	0
20	QPSK	1	49	20.76	20.89	20.93	20.85	20.71		
20	QPSK	1	99	20.78	20.78	21.01	20.70	20.63		
20	QPSK	50	0	20.70	20.78	21.05	20.76	20.61	21.5	0
20	QPSK	50	24	20.59	20.84	20.78	20.79	20.58		
20	QPSK	50	50	20.57	20.68	20.74	20.61	20.58		
20	QPSK	100	0	20.67	20.81	20.97	20.69	20.59	21.5	0
20	16QAM	1	0	20.57	20.81	20.84	20.73	20.41		
20	16QAM	1	49	20.52	20.70	20.73	20.61	20.46		
20	16QAM	1	99	20.52	20.62	20.73	20.47	20.37	21.5	0
20	16QAM	50	0	19.72	19.90	19.88	19.74	19.51		
20	16QAM	50	24	19.51	19.80	19.88	19.69	19.50		
20	16QAM	50	50	19.45	19.70	19.86	19.53	19.54	20.5	1
20	16QAM	100	0	19.58	19.79	19.97	19.67	19.50		
20	16QAM	100	1	19.18	19.19	19.39	19.20	19.03		
20	64QAM	1	49	19.02	19.22	19.23	19.10	19.05	20.5	1
20	64QAM	1	99	19.00	19.06	19.23	18.98	19.02		
20	64QAM	50	0	18.60	18.72	18.75	18.65	18.52		
20	64QAM	50	24	18.50	18.73	18.75	18.80	18.55	19.5	2
20	64QAM	50	50	18.63	18.63	18.65	18.48	18.54		
20	64QAM	100	0	18.73	18.89	18.94	18.68	18.53		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.58	20.93	20.90	20.71	20.50	22.5	0
15	QPSK	1	37	20.57	20.88	20.83	20.71	20.50		
15	QPSK	1	74	20.63	20.64	20.81	20.52	20.52		
15	QPSK	36	0	20.58	20.64	20.89	20.71	20.56	22.5	0
15	QPSK	36	20	20.45	20.72	20.70	20.62	20.41		
15	QPSK	36	39	20.51	20.53	20.69	20.56	20.52		
15	QPSK	75	0	20.53	20.76	20.93	20.56	20.47	22.5	0
15	16QAM	1	0	20.53	20.67	20.67	20.64	20.28		
15	16QAM	1	37	20.39	20.59	20.69	20.54	20.37		
15	16QAM	1	74	20.43	20.46	20.57	20.40	20.28	21.5	1
15	16QAM	36	0	19.58	19.80	19.84	19.62	19.38		
15	16QAM	36	20	19.49	19.64	19.79	19.62	19.38		
15	16QAM	36	39	19.52	19.64	19.71	19.46	19.48	21.5	1
15	16QAM	75	0	19.40	19.67	19.86	19.61	19.37		
15	64QAM	1	0	19.04	19.03	19.23	19.10	18.91		
15	64QAM	1	37	18.92	19.19	19.10	19.00	18.94	21.5	1
15	64QAM	1	74	19.94	19.03	19.10	18.92	18.85		
15	64QAM	36	0	18.54	18.61	18.59	18.60	18.39		
15	64QAM	36	20	18.40	18.67	18.62	18.75	18.42	20.5	2
15	64QAM	36	39	18.48	18.57	18.59	18.40	18.47		
15	64QAM	75	0	18.66	18.85	18.80	18.65	18.45		
Channel										
Frequency (MHz)				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.63	20.95	20.96	20.75	20.55	21.5	0
10	QPSK	1	25	20.53	20.78	20.86	20.67	20.50		
10	QPSK	1	49	20.58	20.66	20.83	20.60	20.51		
10	QPSK	25	0	20.59	20.72	20.93	20.62	20.56	21.5	0
10	QPSK	25	12	20.49	20.78	20.70	20.58	20.50		
10	QPSK	25	25	20.50	20.62	20.63	20.47	20.43		
10	QPSK	50	0	20.57	20.70	20.84	20.57	20.51	21.5	0
10	16QAM	1	0	20.42	20.74	20.70	20.60	20.32		
10	16QAM	1	25	20.47	20.63	20.61	20.58	20.41		
10	16QAM	1	49	20.38	20.55	20.64	20.33	20.29	20.5	1
10	16QAM	25	0	19.60	19.84	19.84	19.67	19.39		
10	16QAM	25	12	19.52	19.66	19.80	19.60	19.41		
10	16QAM	25	25	19.51	19.54	19.78	19.47	19.49	20.5	1
10	16QAM	50	0	19.52	19.70	19.83	19.53	19.41		
10	64QAM	1	0	19.09	19.07	19.34	19.09	18.87		
10	64QAM	1	25	18.90	19.08	19.17	19.06	19.00	20.5	1
10	64QAM	1	49	18.89	18.92	19.08	18.86	18.92		
10	64QAM	25	0	18.49	18.64	18.71	18.52	18.43		
10	64QAM	25	12	18.41	18.60	18.71	18.76	18.41	19.5	2
10	64QAM	25	25	18.56	18.52	18.56	18.41	18.41		
10	64QAM	50	0	18.67	18.79	18.89	18.56	18.39		
Channel										
Frequency (MHz)				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	20.56	20.94	20.96	20.71	20.51	21.5	0
5	QPSK	1	12	20.58	20.88	20.92	20.67	20.53		
5	QPSK	1	24	20.56	20.67	20.81	20.55	20.54		
5	QPSK	12	0	20.56	20.65	20.92	20.70	20.53	21.5	0
5	QPSK	12	7	20.56	20.80	20.64	20.66	20.52		
5	QPSK	12	13	20.42	20.52	20.67	20.55	20.46		
5	QPSK	25	0	20.96	20.76	20.90	20.55	20.54	21.5	0
5	16QAM	1	0	20.47	20.77	20.75	20.70	20.36		
5	16QAM	1	12	20.41	20.55	20.61	20.57	20.33		
5	16QAM	1	24	20.41	20.57	20.69	20.33	20.45	20.5	1
5	16QAM	12	0	19.67	19.64	19.74	19.60	19.46		
5	16QAM	12	7	19.48	19.69	19.74	19.55	19.45		
5	16QAM	12	13	19.32	19.55	19.63	19.42	19.49	20.5	1
5	16QAM	25	0	19.53	19.67	19.89	19.60	19.46		
5	64QAM	1	0	19.15	19.05	19.24	19.07	18.93		
5	64QAM	1	12	18.87	19.05	19.20	18.94	18.98	20.5	1
5	64QAM	1	24	18.84	19.00	19.13	18.87	18.90		
5	64QAM	12	0	18.50	18.65	18.68	18.50	18.36		
5	64QAM	12	7	18.40	18.56	18.60	18.56	18.50	19.5	2
5	64QAM	12	13	18.50	18.57	18.53	18.33	18.40		
5	64QAM	25	0	18.66	18.81	18.70	18.60	18.40		

Band 41 HPUE ECI6 Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.65	23.72	23.78	23.58	23.43	24.5	0
20	QPSK	1	49	23.45	23.60	23.59	23.56	23.44		
20	QPSK	1	99	23.33	23.57	23.57	23.38	23.31		
20	QPSK	50	0	23.65	23.76	23.77	23.49	23.38	24.5	0
20	QPSK	50	24	23.43	23.64	23.65	23.42	23.32		
20	QPSK	50	50	23.59	23.63	23.61	23.46	23.48		
20	QPSK	100	0	23.48	23.68	23.70	23.46	23.33	24.5	0
20	16QAM	1	0	23.50	23.62	23.67	23.44	23.35		
20	16QAM	1	49	23.67	23.65	23.59	23.42	23.51		
20	16QAM	1	99	23.63	23.51	23.64	23.39	23.36	24.5	0
20	16QAM	50	0	22.62	22.68	22.82	22.43	22.50		
20	16QAM	50	24	22.52	22.59	22.57	22.50	22.41		
20	16QAM	50	50	22.50	22.72	22.64	22.40	22.45	23.5	1
20	16QAM	100	0	22.55	22.61	22.71	22.46	22.29		
20	16QAM	100	1	22.30	22.33	22.41	22.26	22.28		
20	64QAM	1	49	22.26	22.25	22.47	22.10	22.23	23.5	1
20	64QAM	1	99	22.38	22.41	22.43	22.25	22.22		
20	64QAM	50	0	21.74	21.83	21.93	21.64	21.66		
20	64QAM	50	24	21.60	21.77	21.79	21.51	21.58	22.5	2
20	64QAM	50	50	21.85	21.74	21.92	21.74	21.50		
20	64QAM	100	0	21.70	21.84	21.86	21.58	21.58		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1								



Band 2 ECI6 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.22	18.00	18.78	19	0	
20	QPSK	1	49	17.81	18.11	17.90			
20	QPSK	1	99	17.68	18.08	17.93			
20	QPSK	50	0	17.86	18.11	18.04			
20	QPSK	50	24	17.80	18.06	18.11			
20	QPSK	50	50	17.87	18.03	17.91			
20	QPSK	100	0	17.74	18.14	18.03			
20	16QAM	1	0	18.02	18.13	18.11			
20	16QAM	1	49	17.99	18.01	17.92	19	0	
20	16QAM	1	99	17.86	18.02	17.95			
20	16QAM	50	0	17.88	18.08	18.04			
20	16QAM	50	24	17.78	18.07	18.10			
20	16QAM	50	50	17.84	18.06	17.98	19	0	
20	16QAM	100	0	17.92	18.06	18.00			
20	84QAM	1	0	18.00	18.07	17.97			
20	84QAM	1	49	17.73	17.95	17.93	19	0	
20	84QAM	1	99	17.61	17.82	17.86			
20	84QAM	50	0	18.05	18.10	18.07			
20	84QAM	50	24	18.02	18.07	17.98			
20	84QAM	50	50	17.93	17.96	17.91	19	0	
20	84QAM	100	0	18.05	18.08	18.08			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.84	18.01	17.90			
15	QPSK	1	37	17.65	17.95	17.84	19	0	
15	QPSK	1	74	17.59	17.96	17.87			
15	QPSK	35	0	17.71	17.97	17.97			
15	QPSK	36	20	17.78	17.91	17.85	19	0	
15	QPSK	36	39	17.72	17.95	17.81			
15	QPSK	75	0	17.68	17.99	18.02			
15	16QAM	1	0	18.01	17.95	17.95			
15	16QAM	1	37	17.96	17.95	17.82	19	0	
15	16QAM	1	74	17.79	17.97	17.86			
15	16QAM	36	0	17.82	17.93	17.88			
15	16QAM	36	20	17.87	17.96	17.93	19	0	
15	16QAM	36	39	17.72	17.97	17.85			
15	16QAM	75	0	17.85	17.94	17.89			
15	84QAM	1	0	17.82	17.95	17.83			
15	84QAM	1	37	17.60	17.82	17.83	19	0	
15	84QAM	1	74	17.50	17.91	17.71			
15	84QAM	36	0	17.97	17.99	17.90			
15	84QAM	36	20	17.93	17.97	17.87	19	0	
15	84QAM	36	39	17.83	17.81	17.86			
15	84QAM	75	0	17.96	17.96	17.98			
Channel									
Frequency (MHz)									
10	QPSK	1	0	17.79	18.03	17.85			
10	QPSK	1	25	17.62	17.99	17.76	19	0	
10	QPSK	1	49	17.60	17.95	17.92			
10	QPSK	25	0	17.73	17.97	17.98			
10	QPSK	25	12	17.74	18.00	17.96			
10	QPSK	25	25	17.76	17.94	17.97	19	0	
10	QPSK	50	0	17.86	17.97	17.93			
10	16QAM	1	0	18.00	17.96	18.03			
10	16QAM	1	25	17.88	18.00	17.85	19	0	
10	16QAM	1	49	17.74	17.92	17.83			
10	16QAM	25	0	17.85	17.95	17.92			
10	16QAM	25	12	17.65	17.97	17.95	19	0	
10	16QAM	25	25	17.79	17.96	17.86			
10	16QAM	50	0	17.84	17.95	17.86			
10	84QAM	1	0	17.90	17.95	17.86			
10	84QAM	1	25	17.62	17.99	17.83	19	0	
10	84QAM	1	49	17.50	17.85	17.76			
10	84QAM	25	0	17.96	17.97	17.90			
10	84QAM	25	12	17.93	17.93	17.84	19	0	
10	84QAM	25	25	17.79	17.82	17.85			
10	84QAM	50	0	17.92	18.03	17.95			
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.83	17.99	17.88			
5	QPSK	1	12	17.67	17.96	17.78	19	0	
5	QPSK	1	24	17.61	18.01	17.94			
5	QPSK	12	0	17.77	17.98	17.96			
5	QPSK	12	7	17.69	17.99	17.94	19	0	
5	QPSK	12	13	17.78	17.94	17.74			
5	QPSK	25	0	17.68	17.99	18.00			
5	16QAM	1	0	17.98	18.01	18.04			
5	16QAM	1	12	17.91	17.94	17.86	19	0	
5	16QAM	1	24	17.73	17.93	17.81			
5	16QAM	12	0	17.81	18.00	17.94			
5	16QAM	12	7	17.63	17.96	18.04	19	0	
5	16QAM	12	13	17.71	17.96	17.82			
5	16QAM	25	0	17.87	17.97	17.88			
5	84QAM	1	0	17.89	17.95	17.81			
5	84QAM	1	12	17.61	17.83	17.82	19	0	
5	84QAM	1	24	17.45	17.88	17.75			
5	84QAM	12	0	17.88	18.00	17.90			
5	84QAM	12	7	17.86	17.94	17.99	19	0	
5	84QAM	12	13	17.77	17.83	17.79			
5	84QAM	25	0	17.91	17.97	18.00			
Channel									
Frequency (MHz)									
3	QPSK	1	0	17.82	18.01	17.90			
3	QPSK	1	8	17.72	17.98	17.82	19	0	
3	QPSK	1	14	17.62	18.04	17.86			
3	QPSK	8	0	17.75	18.03	18.02			
3	QPSK	8	4	17.73	18.01	18.00	19	0	
3	QPSK	8	7	17.86	17.81	17.81			
3	QPSK	15	0	17.64	17.97	17.98			
3	16QAM	1	0	17.99	17.98	18.01			
3	16QAM	1	8	17.86	17.94	17.84	19	0	
3	16QAM	1	14	17.79	17.94	17.83			
3	16QAM	8	0	17.85	17.92	17.95			
3	16QAM	8	4	17.63	17.98	18.03	19	0	
3	16QAM	8	7	17.71	17.95	17.86			
3	16QAM	15	0	17.81	17.96	17.91			
3	84QAM	1	0	17.85	17.98	17.82			
3	84QAM	1	8	17.59	17.87	17.82	19	0	
3	84QAM	1	14	17.49	17.89	17.78			
3	84QAM	8	0	17.90	17.91	17.98			
3	84QAM	8	4	17.91	17.94	17.90	19	0	
3	84QAM	8	7	17.79	17.86	17.81			
3	84QAM	15	0	17.95	17.95	17.99			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	17.78	18.03	17.92			
1.4	QPSK	1	3	17.70	17.97	17.79	19	0	
1.4	QPSK	1	5	17.65	18.01	17.89			
1.4	QPSK	3	0	17.76	17.99	17.97			
1.4	QPSK	3	1	17.72	17.99	17.95			
1.4	QPSK	3	3	17.70	17.96	17.81	19	0	
1.4	QPSK	6	0	17.71	18.01	17.93			
1.4	16QAM	1	0	17.93	17.98	18.00			
1.4	16QAM	1	3	17.88	18.00	17.96	19	0	
1.4	16QAM	1	5	17.72	17.90	17.85			
1.4	16QAM	3	0	17.78	17.96	17.91			
1.4	16QAM	3	1	17.64	18.01	17.99	19	0	
1.4	16QAM	3	3	17.71	17.94	17.82			
1.4	16QAM	6	0	17.86	17.97	17.87			
1.4	84QAM	1	0	17.85	17.97	17.85			
1.4	84QAM	1	3	17.58	17.87	17.87	19	0	
1.4	84QAM	1	5	17.54	17.82	17.76			
1.4	84QAM	3	0	17.89	18.01	17.95			
1.4	84QAM	3	1	17.93	17.96	17.87			
1.4	84QAM	3	3	17.79	17.83	17.84	19	0	
1.4	84QAM	6	0	17.88	18.04	17.97			

Band 4 ECI6 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.13	19.13	19.13			
20	QPSK	1	49	19.11	19.08	19.97	20	0	
20	QPSK	1	99	19.09	19.08	19.10			
20	QPSK	50	0	18.99	19.13	18.88			
20	QPSK	50	24	18.92	19.04	18.86	20	0	
20	QPSK	50	50	18.95	19.02	18.96			
20	QPSK	1							



Band 7 ECI6 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2310	2335	2360			
20	QPSK	1	0	17.60	17.62	17.58			
20	QPSK	1	49	17.42	17.44	17.36	18	0	
20	QPSK	1	99	17.36	17.44	17.43			
20	QPSK	50	0	17.52	17.58	17.54			
20	QPSK	50	24	17.43	17.53	17.47	18	0	
20	QPSK	50	50	17.47	17.43	17.42			
20	QPSK	100	0	17.56	17.61	17.59			
20	16QAM	1	0	17.58	17.59	17.44			
20	16QAM	1	49	17.45	17.48	17.38	18	0	
20	16QAM	1	99	17.39	17.53	17.36			
20	16QAM	50	0	17.52	17.59	17.51			
20	16QAM	50	24	17.30	17.56	17.46	18	0	
20	16QAM	50	50	17.40	17.51	17.48			
20	16QAM	100	0	17.50	17.56	17.61			
20	16QAM	1	0	17.50	17.61	17.45			
20	16QAM	1	49	17.30	17.59	17.38	18	0	
20	16QAM	1	99	17.46	17.50	17.36			
20	16QAM	50	0	17.44	17.60	17.50			
20	16QAM	50	24	17.39	17.51	17.38	18	0	
20	16QAM	50	50	17.49	17.51	17.30			
20	16QAM	100	0	17.54	17.60	17.59			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.60	17.61	17.58			
15	QPSK	1	37	17.46	17.37	17.40	18	0	
15	QPSK	1	74	17.41	17.47	17.48			
15	QPSK	36	0	17.53	17.50	17.50			
15	QPSK	36	20	17.36	17.51	17.49	18	0	
15	QPSK	36	39	17.47	17.48	17.46			
15	QPSK	75	0	17.54	17.54	17.52			
15	16QAM	1	0	17.52	17.56	17.40			
15	16QAM	1	37	17.46	17.47	17.33	18	0	
15	16QAM	1	74	17.31	17.46	17.34			
15	16QAM	36	0	17.54	17.61	17.52			
15	16QAM	36	20	17.23	17.61	17.42	18	0	
15	16QAM	36	39	17.36	17.51	17.53			
15	16QAM	75	0	17.54	17.60	17.55			
15	16QAM	1	0	17.47	17.58	17.44			
15	16QAM	1	37	17.24	17.59	17.30	18	0	
15	16QAM	1	74	17.42	17.55	17.31			
15	16QAM	36	0	17.36	17.52	17.49			
15	16QAM	36	20	17.43	17.51	17.40	18	0	
15	16QAM	36	39	17.46	17.45	17.34			
15	16QAM	75	0	17.55	17.58	17.51			
Channel				20890	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	17.54	17.58	17.54			
10	QPSK	1	25	17.39	17.40	17.30	18	0	
10	QPSK	1	49	17.35	17.36	17.45			
10	QPSK	25	0	17.53	17.56	17.59			
10	QPSK	25	12	17.37	17.56	17.47	18	0	
10	QPSK	25	25	17.40	17.46	17.35			
10	QPSK	50	0	17.61	17.58	17.51			
10	16QAM	1	0	17.57	17.60	17.45			
10	16QAM	1	25	17.41	17.42	17.31	18	0	
10	16QAM	1	49	17.39	17.54	17.32			
10	16QAM	25	0	17.52	17.53	17.52			
10	16QAM	25	12	17.34	17.58	17.45	18	0	
10	16QAM	25	25	17.38	17.54	17.53			
10	16QAM	50	0	17.46	17.52	17.55			
10	16QAM	1	0	17.44	17.54	17.49			
10	16QAM	1	25	17.33	17.55	17.35	18	0	
10	16QAM	1	49	17.46	17.54	17.37			
10	16QAM	25	0	17.46	17.52	17.55			
10	16QAM	25	12	17.35	17.53	17.59	18	0	
10	16QAM	25	25	17.42	17.54	17.59			
10	16QAM	50	0	17.56	17.60	17.54			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	17.52	17.58	17.53			
5	QPSK	1	12	17.46	17.45	17.40	18	0	
5	QPSK	1	24	17.32	17.43	17.41			
5	QPSK	12	0	17.47	17.60	17.57			
5	QPSK	12	7	17.47	17.48	17.50	18	0	
5	QPSK	12	13	17.52	17.45	17.37			
5	QPSK	25	0	17.52	17.61	17.59			
5	16QAM	1	0	17.60	17.60	17.45			
5	16QAM	1	12	17.38	17.50	17.35	18	0	
5	16QAM	1	24	17.36	17.45	17.30			
5	16QAM	12	0	17.55	17.56	17.56			
5	16QAM	12	7	17.35	17.60	17.41	18	0	
5	16QAM	12	13	17.33	17.53	17.41			
5	16QAM	25	0	17.44	17.61	17.51			
5	16QAM	1	0	17.48	17.56	17.39			
5	16QAM	1	12	17.27	17.52	17.39	18	0	
5	16QAM	1	24	17.42	17.52	17.30			
5	16QAM	12	0	17.39	17.58	17.42			
5	16QAM	12	7	17.39	17.52	17.32	18	0	
5	16QAM	12	13	17.53	17.51	17.33			
5	16QAM	25	0	17.49	17.59	17.51			

Band 12 ECI6 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	22.49	22.54	22.48			
10	QPSK	1	25	22.42	22.51	22.46	23	0	
10	QPSK	1	49	22.46	22.49	22.45			
10	QPSK	25	0	21.58	21.62	21.47			
10	QPSK	25	12	21.41	21.61	21.38	22	1	
10	QPSK	25	25	21.51	21.54	21.45			
10	QPSK	50	0	21.56	21.59	21.54			
10	16QAM	1	0	21.83	21.91	21.68			
10	16QAM	1	25	21.81	21.72	21.97	22	1	
10	16QAM	1	49	21.78	21.74	21.76			
10	16QAM	25	0	20.57	20.61	20.42			
10	16QAM	25	12	20.37	20.66	20.45	21	2	
10	16QAM	25	25	20.51	20.50	20.48			
10	16QAM	50	0	20.55	20.58	20.54			
10	16QAM	1	0	20.81	20.81	20.80			
10	16QAM	1	25	20.74	20.71	20.70	21	2	
10	16QAM	1	49	20.67	20.75	20.72			
10	16QAM	25	0	19.60	19.62	19.43			
10	16QAM	25	12	19.48	19.55	19.48	20	3	
10	16QAM	25	25	19.53	19.51	19.53			
10	16QAM	50	0	19.53	19.58	19.44			
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	22.47	22.51	22.49			
5	QPSK	1	12	22.31	22.45	22.28	23	0	
5	QPSK	1	24	22.34	22.28	22.26			
5	QPSK	12	0	21.50	21.58	21.30			
5	QPSK	12	7	21.38	21.53	21.33	22	1	
5	QPSK	12	13	21.41	21.45	21.31			
5	QPSK	25	0	21.41	21.59	21.52			
5	16QAM	1	0	21.75	21.85	21.47			
5	16QAM	1	12	21.77	21.66	21.82	22	1	
5	16QAM	1	24	21.74	21.71	21.65			
5	16QAM	12	0	20.54	20.40	20.27			
5	16QAM	12	7	20.30	20.67	20.25	21	2	
5	16QAM	12	13	20.48	20.50	20.40			
5	16QAM	25	0	20.38	20.53	20.33			
5	16QAM	1	0	20.75	20.62	20.66			
5	16QAM	1	12	20.60	20.66	20.53	21	2	
5	16QAM	1	24	20.66	20.60	20.61			
5	16QAM	12	0	19.39	19.60	19.44			
5	16QAM	12	7	19.35	19.50	19.26	20	3	
5	16QAM	12	13	19.38	19.43	19.33			
5	16QAM	25	0	19.2					



Band 14 ECI6 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23305	23330	23355		
Frequency (MHz)				793				
10	QPSK	1	0	22.29			23	0
10	QPSK	1	25	22.28				
10	QPSK	1	49	22.22				
10	QPSK	25	0	21.18			22	1
10	QPSK	25	12	21.14				
10	QPSK	25	25	21.12				
10	QPSK	50	0	21.29			22	1
10	16QAM	1	0	21.58				
10	16QAM	1	25	21.52				
10	16QAM	1	49	21.50			21	2
10	16QAM	25	0	20.23				
10	16QAM	25	12	20.23				
10	16QAM	25	25	20.21			21	2
10	16QAM	50	0	20.29				
10	16QAM	50	0	20.41				
10	64QAM	1	0	20.39			21	2
10	64QAM	1	25	20.35				
10	64QAM	1	49	20.35				
10	64QAM	25	0	19.27			20	3
10	64QAM	25	12	19.25				
10	64QAM	25	25	19.17				
10	64QAM	50	0	19.30				
Channel				23305	23330	23355		
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	22.22	22.28	22.23	23	0
5	QPSK	1	12	22.16	22.21	22.24		
5	QPSK	1	24	22.11	22.22	22.05		
5	QPSK	12	0	21.14	21.02	21.01	22	1
5	QPSK	12	7	21.13	20.96	21.05		
5	QPSK	12	13	20.94	21.12	20.98		
5	QPSK	25	0	21.25	21.23	21.17	22	1
5	16QAM	1	0	21.58	21.57	21.45		
5	16QAM	1	12	21.41	21.41	21.37		
5	16QAM	1	24	21.29	21.40	21.33	21	2
5	16QAM	12	0	20.21	20.14	20.20		
5	16QAM	12	7	20.17	20.18	20.23		
5	16QAM	12	13	20.20	20.13	20.11	21	2
5	16QAM	25	0	20.27	20.13	20.27		
5	64QAM	1	0	20.25	20.19	20.20		
5	64QAM	1	12	20.18	20.27	20.19	21	2
5	64QAM	1	24	20.18	20.37	20.29		
5	64QAM	12	0	19.18	19.14	19.06		
5	64QAM	12	7	19.07	19.25	19.13	20	3
5	64QAM	12	13	18.12	18.10	18.97		
5	64QAM	25	0	19.18	19.09	19.31		

Band 17 ECI6 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				710	710	711		
10	QPSK	1	0	22.45	22.49	22.41	23	0
10	QPSK	1	25	22.42	22.46	22.35		
10	QPSK	1	49	22.45	22.42	22.41		
10	QPSK	25	0	21.47	21.65	21.44	22	1
10	QPSK	25	12	21.51	21.55	21.53		
10	QPSK	25	25	21.58	21.59	21.60		
10	QPSK	50	0	21.60	21.66	21.63	22	1
10	16QAM	1	0	21.55	21.80	21.56		
10	16QAM	1	25	21.63	21.71	21.44		
10	16QAM	1	49	21.64	21.75	21.49	21	2
10	16QAM	25	0	20.53	20.67	20.50		
10	16QAM	25	12	20.63	20.52	20.42		
10	16QAM	25	25	20.67	20.58	20.51	21	2
10	16QAM	50	0	20.61	20.62	20.58		
10	64QAM	1	0	20.73	20.74	20.67		
10	64QAM	1	25	20.69	20.71	20.61	21	2
10	64QAM	1	49	20.68	20.71	20.62		
10	64QAM	25	0	19.57	19.63	19.53		
10	64QAM	25	12	19.58	19.56	19.55	20	3
10	64QAM	25	25	19.63	19.69	19.67		
10	64QAM	50	0	19.61	19.65	19.59		
Channel				23755	23790	23825		
Frequency (MHz)				708.5	710	713.5		
5	QPSK	1	0	22.41	22.46	22.41	23	0
5	QPSK	1	12	22.40	22.39	22.24		
5	QPSK	1	24	22.28	22.29	22.27		
5	QPSK	12	0	21.38	21.53	21.40	22	1
5	QPSK	12	7	21.37	21.47	21.44		
5	QPSK	12	13	21.37	21.38	21.57		
5	QPSK	25	0	21.55	21.48	21.50	22	1
5	16QAM	1	0	21.55	21.67	21.35		
5	16QAM	1	12	21.52	21.56	21.37		
5	16QAM	1	24	21.47	21.60	21.31	21	2
5	16QAM	12	0	20.51	20.45	20.28		
5	16QAM	12	7	20.46	20.51	20.40		
5	16QAM	12	13	20.53	20.57	20.51	21	2
5	16QAM	25	0	20.42	20.54	20.38		
5	64QAM	1	0	20.59	20.63	20.66		
5	64QAM	1	12	20.50	20.58	20.57	21	2
5	64QAM	1	24	20.60	20.53	20.41		
5	64QAM	12	0	19.43	19.57	19.38		
5	64QAM	12	7	19.39	19.43	19.54	20	3
5	64QAM	12	13	19.42	19.60	19.46		
5	64QAM	25	0	19.51	19.50	19.37		

Band 25 ECI6 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1890	1890	1920		
20	QPSK	1	0	18.11	18.11	18.11	19	0
20	QPSK	1	49	17.97	18.29	18.09		
20	QPSK	1	99	17.93	18.30	18.17		
20	QPSK	50	0	18.05	18.30	18.28	19	0
20	QPSK	50	24	18.03	18.26	18.29		
20	QPSK	50	50	18.04	18.27	18.07		
20	QPSK	100	0	17.98	18.29	18.27	19	0
20	16QAM	1	0	18.27	18.30	18.29		
20	16QAM	1	49	18.21	18.26	18.16		
20	16QAM	1	99	18.04	18.23	18.15	19	0
20	16QAM	50	0	18.12	18.28	18.22		
20	16QAM	50	24	17.93	18.30	18.30		
20	16QAM	50	50	18.05	18.25	18.15	19	0
20	16QAM	100	0	18.12	18.27	18.22		
20	64QAM	1	0	18.16	18.29	18.13		
20	64QAM	1	49	17.89	18.15	18.15	19	0
20	64QAM	1	99	17.80	18.18	18.04		
20	64QAM	50	0	18.22	18.26	18.24		
20	64QAM	50	24	18.21	18.24	18.22	19	0
20	64QAM	50	50	18.10	18.15	18.12		
20	64QAM	100	0	18.20	18.29	18.26		
Channel				26115	26340	26675		
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	18.07	18.28	18.26	19	0
15	QPSK	1	37	17.95	18.29	18.13		
15	QPSK	1	74	17.95	18.23	18.07		
15	QPSK	36	0	17.86	18.13	18.03	19	0
15	QPSK	36	20	17.78	18.12	18.04		
15	QPSK	36	39	17.86	18.04	17.86		
15	QPSK	75	0	17.85	18.05	18.08	19	0
15	16QAM	1	0	18.07	18.27	18.03		
15	16QAM	1	37	17.97	18.22	17.98		
15	16QAM	1	74	17.93	18.26	18.06	19	0
15	16QAM	36	0	18.11	18.23	18.21		
15	16QAM	36	20	17.86	18.16	18.11		
15	16QAM	36	39	18.05	18.23	18.16	19	0
15	16QAM	75	0	18.12	18.25	18.14		
15	64QAM	1	0	18.21	18.27	18.14		
15	64QAM	1	37	17.80	18.14	18.17	19	0
15	64QAM	1	74	17.87	18.22	18.10		
15	64QAM	36	0	18.10	18.17	18.12		
15	64QAM	36	20	18.14	18.24	18.14	19	0
15	64QAM	36	39	17.81	18.17	18.16		
15	64QAM	75	0	18.14	18.17	18.16		
Channel				26590	26340	26640		
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	18.02	18.29	18.16	19	0
10	QPSK	1	25	17.94	18.26	18.21		
10	QPSK	1	49	17.85	18.26	18.14		
10	QPSK	25	0	17.88	18.14	18.08	19	0
10	QPSK	25	12	17.74	18.08	18.01		
10	QPSK	25	25	17.75	18.08	17.88		
10	QPSK	50	0	17.84	18.10	18.12	19	0
10	16QAM	1	0	18.09	18.19	18.05		
10	16QAM	1	25	17.99	18.20	17.87		
10	16QAM	1	49	17.92	18.16	17.94	19	0
10	16QAM	25	0	18.17	18.29	18.24		
10	16QAM	25	12	17.87	18.30	18.27		
10	16QAM	25	25	17.99	18.19	18.16	19	0
10	16QAM	50	0	18.10	18.28			



Band 26 for FCC ECI6 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				26765	26865	26965			
15	QPSK	1	0	22.22	22.38	22.18			
15	QPSK	1	37	22.23	22.34	22.17	23	0	
15	QPSK	1	74	22.15	22.31	22.12			
15	QPSK	36	0	21.13	21.32	21.13			
15	QPSK	36	20	21.13	21.25	21.17	22	1	
15	QPSK	36	39	21.20	21.30	21.14			
15	QPSK	75	0	21.12	21.28	21.12			
15	16QAM	1	0	21.32	21.35	21.14			
15	16QAM	1	37	21.29	21.31	21.14	22	1	
15	16QAM	1	74	21.07	21.33	21.16			
15	16QAM	36	0	20.15	20.22	20.10			
15	16QAM	36	20	20.11	20.17	20.14	21	2	
15	16QAM	36	39	20.11	20.18	20.14			
15	16QAM	75	0	20.21	20.29	20.18			
15	64QAM	1	0	20.25	20.39	20.22			
15	64QAM	1	37	20.30	20.34	20.27	21	2	
15	64QAM	1	74	20.14	20.22	20.03			
15	64QAM	36	0	19.23	19.27	19.21			
15	64QAM	36	20	19.13	19.14	19.18	20	3	
15	64QAM	36	39	19.22	19.24	19.12			
15	64QAM	75	0	19.18	19.29	19.12			
Channel									
Frequency (MHz)				26740	26865	26940			
10	QPSK	1	0	22.03	22.35	22.14			
10	QPSK	1	25	22.03	22.21	22.16	23	0	
10	QPSK	1	49	22.11	22.29	22.00			
10	QPSK	25	0	21.01	21.20	21.12			
10	QPSK	25	12	21.16	21.24	21.16	22	1	
10	QPSK	25	25	21.12	21.12	20.94			
10	QPSK	50	0	20.91	21.14	21.08			
10	16QAM	1	0	21.24	21.32	21.04			
10	16QAM	1	25	21.16	21.20	21.12	22	1	
10	16QAM	1	49	21.07	21.29	20.95			
10	16QAM	25	0	20.13	20.01	20.06			
10	16QAM	25	12	20.14	20.23	20.04	21	2	
10	16QAM	25	25	20.11	20.10	19.93			
10	16QAM	50	0	20.09	20.16	20.07			
10	64QAM	1	0	20.23	20.19	20.21			
10	64QAM	1	25	20.28	20.17	20.26	21	2	
10	64QAM	1	49	19.96	20.06	20.00			
10	64QAM	25	0	19.21	19.17	19.00			
10	64QAM	25	12	19.08	19.13	19.12	20	3	
10	64QAM	25	25	19.05	19.21	19.05			
10	64QAM	50	0	19.12	19.16	19.13			
Channel									
Frequency (MHz)				26715	26865	27015			
5	QPSK	1	0	22.10	22.37	22.18			
5	QPSK	1	12	22.03	22.18	22.01	23	0	
5	QPSK	1	24	21.99	22.12	21.93			
5	QPSK	12	0	21.08	21.22	21.01			
5	QPSK	12	7	20.95	21.03	21.13	22	1	
5	QPSK	12	13	21.21	21.20	20.97			
5	QPSK	25	0	21.07	21.04	20.92			
5	16QAM	1	0	21.27	21.29	20.94			
5	16QAM	1	12	21.24	21.29	21.12	22	1	
5	16QAM	1	24	21.04	21.20	21.08			
5	16QAM	12	0	20.15	20.14	20.03			
5	16QAM	12	7	20.09	19.87	20.12	21	2	
5	16QAM	12	13	20.03	20.10	19.99			
5	16QAM	25	0	20.06	20.07	20.01			
5	64QAM	1	0	20.17	20.36	20.10			
5	64QAM	1	12	20.24	20.12	20.28	21	2	
5	64QAM	1	24	20.11	20.18	19.93			
5	64QAM	12	0	19.02	19.21	19.21			
5	64QAM	12	7	18.86	19.05	19.02	20	3	
5	64QAM	12	13	19.07	19.10	19.07			
5	64QAM	25	0	19.03	19.08	18.90			
Channel									
Frequency (MHz)				26705	26865	27025			
3	QPSK	1	0	22.05	22.32	22.11			
3	QPSK	1	3	22.12	22.27	22.01	23	0	
3	QPSK	1	14	22.05	22.09	21.92			
3	QPSK	8	0	21.03	21.28	21.05			
3	QPSK	8	4	21.04	21.10	21.14	22	1	
3	QPSK	8	7	21.08	21.09	21.00			
3	QPSK	15	0	21.06	21.16	20.95			
3	16QAM	1	0	21.13	21.19	21.08			
3	16QAM	1	8	21.09	21.26	20.93	22	1	
3	16QAM	1	14	20.91	21.32	21.05			
3	16QAM	8	0	20.01	20.09	20.00			
3	16QAM	8	4	19.92	19.95	19.96	21	2	
3	16QAM	8	7	19.92	20.11	20.05			
3	16QAM	15	0	20.07	20.14	20.15			
3	64QAM	1	0	20.19	20.32	20.16			
3	64QAM	1	8	20.14	20.19	20.14	21	2	
3	64QAM	1	14	20.11	20.08	19.98			
3	64QAM	8	0	19.05	19.25	19.04			
3	64QAM	8	4	19.12	19.00	19.06	20	3	
3	64QAM	8	7	19.05	19.07	19.11			
3	64QAM	15	0	19.00	19.30	18.92			
Channel									
Frequency (MHz)				26697	26865	27033			
1.4	QPSK	1	0	22.17	22.32	21.99			
1.4	QPSK	1	3	22.24	22.33	21.96	23	0	
1.4	QPSK	1	5	22.16	22.21	21.95			
1.4	QPSK	3	0	22.12	22.27	22.05			
1.4	QPSK	3	1	22.11	22.19	22.16	22	1	
1.4	QPSK	3	3	22.06	22.12	22.01			
1.4	16QAM	1	0	20.93	21.22	20.94			
1.4	16QAM	1	0	20.84	21.02	21.12	22	1	
1.4	16QAM	1	3	20.89	20.87	20.97			
1.4	16QAM	1	5	21.04	20.96	20.90	22	1	
1.4	16QAM	3	0	21.08	21.19	20.91			
1.4	16QAM	3	1	20.97	21.17	20.85			
1.4	16QAM	3	3	20.73	21.17	21.01	21	2	
1.4	16QAM	6	0	19.99	20.11	19.91			
1.4	64QAM	1	0	20.05	19.92	20.03			
1.4	64QAM	1	3	20.05	19.95	19.95	21	2	
1.4	64QAM	1	5	19.91	20.09	19.97			
1.4	64QAM	3	0	20.04	20.22	20.11			
1.4	64QAM	3	1	20.10	20.12	20.09	20	3	
1.4	64QAM	3	3	19.96	20.11	19.95			
1.4	64QAM	6	0	18.94	19.13	19.09	20	3	

Band 30 ECI6 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2710	2710	2710			
10	QPSK	1	0	15.95	15.95	15.95			
10	QPSK	1	25	15.84	15.84	15.84	16.5	0	
10	QPSK	1	49	15.86	15.86	15.86			
10	QPSK	25	0	15.93	15.93	15.93			
10	QPSK	25	12	15.91	15.91	15.91	16.5	0	
10	QPSK	25	25	15.85	15.85	15.85			
10	QPSK	50	0	15.90	15.90	15.90			
10	16QAM	1	0	15.91	15.91	15.91	16.5	0	
10	16QAM	1	25	15.90	15.90	15.90			
10	16QAM	1	49	15.90	15.90	15.90			
10	16QAM	25	0	15.90	15.90	15.90			
10	16QAM	25	12	15.89	15.89	15.89	16.5	0	
10	16QAM	25	25	15.75	15.75	15.75			
10	16QAM	50	0	15.88	15.88	15.88			
10	64QAM	1	0	15.88	15.88	15.88			
10	64QAM	1	25	15.87	15.87	15.87	16.5	0	
10	64QAM	1	49	15.77	15.77	15.77			
10	64QAM	25	0	15.92	15.92	15.92			
10	64QAM	25	12	15.90	15.90	15.90	16.5	0	
10	64QAM	25	25	15.87	15.87	15.87			
10	64QAM	50	0	15.86	15.86	15.86			
Channel									
Frequency (MHz)				27685	27710	27735			
5	QPSK	1	0	15.75	15.87	15.83			
5	QPSK	1	12	15.76	15.80	15.86	16.5	0	
5	Q								



Band 71 ECI6 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	693		
20	QPSK	1	0	22.49	22.54	22.43	23	0
20	QPSK	1	49	22.40	22.51	22.39		
20	QPSK	1	99	22.41	22.50	22.36		
20	QPSK	50	0	21.74	21.77	21.72	22	1
20	QPSK	50	24	21.55	21.60	21.68		
20	QPSK	50	50	21.55	21.58	21.44		
20	QPSK	100	0	21.62	21.67	21.60	22	1
20	16QAM	1	0	21.70	21.75	21.64		
20	16QAM	1	49	21.69	21.70	21.57		
20	16QAM	1	99	21.66	21.62	21.67	21	2
20	16QAM	50	0	20.63	20.72	20.65		
20	16QAM	50	24	20.66	20.56	20.58		
20	16QAM	50	50	20.66	20.70	20.35	21	2
20	16QAM	100	0	20.65	20.68	20.52		
20	64QAM	1	0	20.62	20.76	20.70		
20	64QAM	1	49	20.56	20.61	20.48	21	2
20	64QAM	1	99	20.58	20.63	20.59		
20	64QAM	50	0	19.71	19.71	19.69		
20	64QAM	50	24	19.47	19.60	19.63	20	3
20	64QAM	50	50	19.55	19.68	19.38		
20	64QAM	100	0	19.70	19.70	19.65		
Channel				133197	133297	133397		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	22.45	22.53	22.30	23	0
15	QPSK	1	37	22.37	22.29	22.21		
15	QPSK	1	74	22.38	22.47	22.29		
15	QPSK	36	0	21.53	21.68	21.71	22	1
15	QPSK	36	20	21.47	21.43	21.47		
15	QPSK	36	39	21.54	21.40	21.35		
15	QPSK	75	0	21.57	21.67	21.39	22	1
15	16QAM	1	0	21.63	21.60	21.51		
15	16QAM	1	37	21.56	21.65	21.37		
15	16QAM	1	74	21.55	21.61	21.63	21	2
15	16QAM	36	0	20.56	20.60	20.43		
15	16QAM	36	20	20.66	20.36	20.48		
15	16QAM	36	39	20.62	20.58	20.43	21	2
15	16QAM	75	0	20.44	20.63	20.46		
15	64QAM	1	0	20.52	20.58	20.68		
15	64QAM	1	37	20.42	20.52	20.34	21	2
15	64QAM	1	74	20.37	20.43	20.51		
15	64QAM	36	0	19.70	19.67	19.55		
15	64QAM	36	20	19.42	19.42	19.46	20	3
15	64QAM	36	39	19.55	19.54	19.38		
15	64QAM	75	0	19.68	19.54	19.63		
Channel				133172	133272	133422		
Frequency (MHz)				668	678	693		
10	QPSK	1	0	22.35	22.47	22.28	23	0
10	QPSK	1	25	22.23	22.36	22.40		
10	QPSK	1	49	22.32	22.30	22.15		
10	QPSK	25	0	21.55	21.64	21.50	22	1
10	QPSK	25	12	21.56	21.59	21.46		
10	QPSK	25	25	21.53	21.56	21.39		
10	QPSK	50	0	21.53	21.48	21.42	22	1
10	16QAM	1	0	21.58	21.73	21.46		
10	16QAM	1	25	21.56	21.68	21.40		
10	16QAM	1	49	21.58	21.59	21.54	21	2
10	16QAM	25	0	20.58	20.71	20.50		
10	16QAM	25	12	20.62	20.52	20.48		
10	16QAM	25	25	20.53	20.54	20.41	21	2
10	16QAM	50	0	20.66	20.50	20.52		
10	64QAM	1	0	20.52	20.57	20.51		
10	64QAM	1	25	20.42	20.52	20.38	21	2
10	64QAM	1	49	20.55	20.47	20.46		
10	64QAM	25	0	19.66	19.63	19.47		
10	64QAM	25	12	19.46	19.57	19.56	20	3
10	64QAM	25	25	19.46	19.64	19.38		
10	64QAM	50	0	19.68	19.50	19.51		
Channel				133147	133247	133447		
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	22.37	22.47	22.38	23	0
5	QPSK	1	12	22.37	22.34	22.24		
5	QPSK	1	24	22.29	22.36	22.19		
5	QPSK	12	0	21.60	21.71	21.64	22	1
5	QPSK	12	7	21.37	21.41	21.58		
5	QPSK	12	13	21.47	21.59	21.31		
5	QPSK	25	0	21.47	21.57	21.50	22	1
5	16QAM	1	0	21.69	21.65	21.63		
5	16QAM	1	12	21.52	21.59	21.43		
5	16QAM	1	24	21.63	21.63	21.60	21	2
5	16QAM	12	0	20.62	20.55	20.48		
5	16QAM	12	7	20.61	20.46	20.39		
5	16QAM	12	13	20.54	20.58	20.31	21	2
5	16QAM	25	0	20.57	20.54	20.30		
5	64QAM	1	0	20.50	20.77	20.59		
5	64QAM	1	12	20.37	20.47	20.45	21	2
5	64QAM	1	24	20.44	20.48	20.44		
5	64QAM	12	0	19.69	19.66	19.54		
5	64QAM	12	7	19.29	19.60	19.54	20	3
5	64QAM	12	13	19.44	19.53	19.37		
5	64QAM	25	0	19.63	19.56	19.53		



Band 41 ECI6 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.27	19.36	19.62	19.54	19.51	20.5	0
20	QPSK	1	49	19.26	19.30	19.57	19.47	19.49		
20	QPSK	1	99	19.25	19.32	19.54	19.42	19.49	19.5	1
20	QPSK	50	0	18.25	18.32	18.71	18.46	18.47		
20	QPSK	50	24	18.22	18.27	18.57	18.48	18.47	19.5	1
20	QPSK	50	50	18.24	18.32	18.42	18.43	18.43		
20	QPSK	100	0	18.31	18.42	18.69	18.55	18.55	19.5	1
20	16QAM	1	0	18.24	18.31	18.64	18.42	18.55		
20	16QAM	1	49	18.25	18.26	18.54	18.52	18.38	18.5	2
20	16QAM	1	99	18.20	18.29	18.48	18.48	18.44		
20	16QAM	50	0	17.20	17.23	17.62	17.56	17.36	18.5	2
20	16QAM	50	24	17.16	17.22	17.46	17.44	17.55		
20	16QAM	50	50	17.18	17.18	17.35	17.42	17.34	18.5	2
20	16QAM	100	0	17.20	17.34	17.70	17.47	17.45		
20	64QAM	1	0	16.80	16.89	17.24	17.30	17.15	17.5	3
20	64QAM	1	49	16.90	16.89	17.18	17.26	17.00		
20	64QAM	1	99	16.92	16.96	17.17	17.26	17.04	17.5	3
20	64QAM	50	0	16.28	16.31	16.67	16.42	16.32		
20	64QAM	50	24	16.23	16.17	16.44	16.36	16.42	17.5	3
20	64QAM	50	50	16.22	16.22	16.37	16.37	16.34		
20	64QAM	100	0	16.25	16.33	16.57	16.38	16.33		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.15	19.25	19.57	19.40	19.42	20.5	0
15	QPSK	1	37	19.17	19.14	19.47	19.38	19.36		
15	QPSK	1	74	19.14	19.21	19.41	19.26	19.40	19.5	1
15	QPSK	36	0	18.18	18.19	18.63	18.41	18.42		
15	QPSK	36	20	18.19	18.14	18.51	18.32	18.43	19.5	1
15	QPSK	36	39	18.16	18.24	18.30	18.37	18.37		
15	QPSK	75	0	18.28	18.35	18.53	18.51	18.48	19.5	1
15	16QAM	1	0	18.08	18.18	18.55	18.29	18.45		
15	16QAM	1	37	18.11	18.22	18.44	18.46	18.32	18.5	2
15	16QAM	1	74	18.05	18.18	18.40	18.37	18.40		
15	16QAM	36	0	17.05	17.11	17.50	17.45	17.32	18.5	2
15	16QAM	36	20	17.10	17.16	17.34	17.31	17.52		
15	16QAM	36	39	17.14	17.13	17.22	17.25	17.25	18.5	2
15	16QAM	75	0	17.05	17.25	17.55	17.39	17.36		
15	64QAM	1	0	16.79	16.85	17.14	16.97	17.03	18.5	2
15	64QAM	1	37	16.85	16.80	17.07	17.13	16.85		
15	64QAM	1	74	16.79	16.80	17.06	17.12	17.00	17.5	3
15	64QAM	36	0	16.20	16.17	16.53	16.32	16.17		
15	64QAM	36	20	16.16	16.09	16.32	16.21	16.31	17.5	3
15	64QAM	36	39	16.19	16.16	16.29	16.31	16.26		
15	64QAM	75	0	16.15	16.19	16.50	16.28	16.30		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.11	19.28	19.55	19.42	19.47	20.5	0
10	QPSK	1	25	19.13	19.20	19.53	19.40	19.37		
10	QPSK	1	49	19.15	19.18	19.38	19.37	19.37	19.5	1
10	QPSK	25	0	18.17	18.26	18.59	18.39	18.33		
10	QPSK	25	12	18.17	18.21	18.41	18.45	18.33	19.5	1
10	QPSK	25	25	18.16	18.19	18.38	18.35	18.30		
10	QPSK	50	0	18.27	18.39	18.65	18.46	18.51	19.5	1
10	16QAM	1	0	18.09	18.26	18.52	18.32	18.47		
10	16QAM	1	25	18.15	18.17	18.42	18.38	18.22	18.5	2
10	16QAM	1	49	18.13	18.25	18.32	18.34	18.40		
10	16QAM	25	0	17.14	17.14	17.46	17.45	17.22	18.5	2
10	16QAM	25	12	17.08	17.06	17.31	17.28	17.48		
10	16QAM	25	25	17.06	17.09	17.20	17.39	17.22	18.5	2
10	16QAM	50	0	17.16	17.28	17.61	17.31	17.33		
10	64QAM	1	0	16.83	16.87	17.18	17.00	17.02	18.5	2
10	64QAM	1	25	16.84	16.75	17.11	17.17	16.95		
10	64QAM	1	49	16.79	16.79	17.09	17.13	16.87	17.5	3
10	64QAM	25	0	16.25	16.23	16.55	16.34	16.23		
10	64QAM	25	12	16.14	16.11	16.34	16.22	16.31	17.5	3
10	64QAM	25	25	16.09	16.10	16.26	16.33	16.18		
10	64QAM	50	0	16.16	16.27	16.43	16.31	16.28		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	19.16	19.19	19.51	19.45	19.37	20.5	0
5	QPSK	1	12	19.10	19.19	19.42	19.37	19.34		
5	QPSK	1	24	19.10	19.23	19.43	19.27	19.44	19.5	1
5	QPSK	12	0	18.15	18.27	18.59	18.34	18.44		
5	QPSK	12	7	18.17	18.15	18.44	18.39	18.33	19.5	1
5	QPSK	12	13	18.12	18.16	18.39	18.34	18.27		
5	QPSK	25	0	18.16	18.26	18.55	18.41	18.46	19.5	1
5	16QAM	1	0	18.13	18.27	18.55	18.35	18.50		
5	16QAM	1	12	18.19	18.18	18.50	18.37	18.30	18.5	2
5	16QAM	1	24	18.14	18.21	18.40	18.42	18.38		
5	16QAM	12	0	17.15	17.18	17.48	17.47	17.32	18.5	2
5	16QAM	12	7	17.05	17.10	17.42	17.38	17.49		
5	16QAM	12	13	17.12	17.15	17.29	17.30	17.30	18.5	2
5	16QAM	25	0	17.12	17.24	17.57	17.41	17.40		
5	64QAM	1	0	16.86	16.82	17.15	17.05	17.12	18.5	2
5	64QAM	1	12	16.74	16.74	17.02	17.12	16.93		
5	64QAM	1	24	16.76	16.85	17.06	17.22	16.90	17.5	3
5	64QAM	12	0	16.20	16.21	16.52	16.38	16.27		
5	64QAM	12	7	16.07	16.04	16.40	16.24	16.33	17.5	3
5	64QAM	12	13	16.14	16.16	16.32	16.30	16.22		
5	64QAM	25	0	16.08	16.25	16.47	16.32	16.16		

Band 41 HPUE ECI6 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.00	22.02	22.42	22.34	22.38	23.5	0
20	QPSK	1	49	22.01	22.10	22.37	22.22	22.24		
20	QPSK	1	99	22.08	22.10	22.41	22.15	22.18	22.5	1
20	QPSK	50	0	21.05	21.11	21.53	21.19	21.36		
20	QPSK	50	24	21.04	21.07	21.28	21.11	21.28	22.5	1
20	QPSK	50	50	21.04	21.05	21.40	21.21	21.23		
20	QPSK	100	0	21.19	21.19	21.53	21.31	21.44	22.5	1
20	16QAM	1	0	21.06	20.99	21.28	21.28	21.33		
20	16QAM	1	49	20.98	21.06	21.41	21.17	21.31	21.5	2
20	16QAM	1	99	20.99	21.01	21.26	21.29	21.13		
20	16QAM	50	0	19.86	20.06	20.26	20.17	20.21	21.5	2
20	16QAM	50	24	20.02	20.13	20.38	20.04	20.36		
20	16QAM	50	50	20.03	20.05	20.26	20.14	20.22	21.5	2
20	16QAM	100	0	20.20	20.29	20.54	20.39	20.47		
20	64QAM	1	0	19.86	19.86	20.07	20.17	20.18	21.5	2
20	64QAM	1	49	19.84	19.74	20.17	19.98	20.22		
20	64QAM	1	99	19.87	19.83	20.10	20.06	19.84	20.5	3
20	64QAM	50	0	19.11	19.12	19.36	19.21	19.27		
20	64QAM	50	24	19.07	19.04	19.31	19.03	19.34	20.5	3
20	64QAM	50	50	19.10	19.10	19.31	19.22	19.31		
20	64QAM	100	0							



Band 48_FCC ECI6 Ant5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	20.42	20.55	20.43	20.53	22	0
20	QPSK	1	49	20.24	20.49	20.31	20.39		
20	QPSK	1	99	20.13	20.48	20.26	20.33		
20	QPSK	50	0	20.51	20.54	20.51	20.43		
20	QPSK	50	24	20.33	20.51	20.34	20.46	22	0
20	QPSK	50	50	20.26	20.45	20.21	20.22		
20	QPSK	100	0	20.48	20.51	20.49	20.40		
20	16QAM	1	0	20.29	20.47	20.44	20.46		
20	16QAM	1	49	20.42	20.52	20.24	20.39	22	0
20	16QAM	1	99	20.30	20.51	20.35	20.24		
20	16QAM	50	0	20.50	20.48	20.40	20.26		
20	16QAM	50	24	20.46	20.48	20.36	20.34		
20	16QAM	50	50	20.19	20.50	20.25	20.28	22	0
20	16QAM	100	0	20.39	20.45	20.38	20.31		
20	64QAM	1	0	20.09	20.22	20.10	20.05		
20	64QAM	1	49	20.07	20.25	20.09	20.15		
20	64QAM	1	99	20.02	20.28	20.06	20.00	21	1
20	64QAM	50	0	19.58	19.46	19.48	19.24		
20	64QAM	50	24	19.54	19.43	19.32	19.28		
20	64QAM	50	50	19.23	19.58	19.16	19.31		
20	64QAM	100	0	19.30	19.42	19.37	19.30		
Channel				55315	55820	56160	56665	Tune-up limit	MPR
Frequency (MHz)				3557.5	3603	3642	3692.5	(dBm)	(dB)
15	QPSK	1	0	20.40	20.54	20.45	20.40	22	0
15	QPSK	1	37	20.25	20.50	20.24	20.36		
15	QPSK	1	74	20.19	20.51	20.28	20.34		
15	QPSK	36	0	20.44	20.51	20.47	20.40		
15	QPSK	36	20	20.41	20.52	20.29	20.37	22	0
15	QPSK	36	39	20.31	20.44	20.24	20.29		
15	QPSK	75	0	20.31	20.51	20.39	20.39		
15	16QAM	1	0	20.29	20.44	20.49	20.45		
15	16QAM	1	37	20.39	20.50	20.30	20.41	22	0
15	16QAM	1	74	20.24	20.42	20.31	20.28		
15	16QAM	36	0	20.37	20.32	20.47	20.13		
15	16QAM	36	20	20.47	20.47	20.38	20.17		
15	16QAM	36	39	20.20	20.32	20.11	20.08	22	0
15	16QAM	75	0	20.20	20.25	20.27	20.22		
15	64QAM	1	0	20.13	20.23	20.10	20.09		
15	64QAM	1	37	20.06	20.25	20.01	20.22		
15	64QAM	1	74	20.16	20.35	20.08	20.09	21	1
15	64QAM	36	0	19.49	19.26	19.40	19.22		
15	64QAM	36	20	19.56	19.43	19.32	19.08		
15	64QAM	36	39	19.08	19.54	19.11	19.30		
15	64QAM	75	0	19.13	19.31	19.18	19.14		
Channel				55290	55815	56185	56690	Tune-up limit	MPR
Frequency (MHz)				3555	3607.5	3642.5	3695	(dBm)	(dB)
10	QPSK	1	0	20.41	20.50	20.50	20.44	22	0
10	QPSK	1	25	20.28	20.46	20.25	20.32		
10	QPSK	1	49	20.26	20.50	20.30	20.30		
10	QPSK	25	0	20.46	20.52	20.51	20.39		
10	QPSK	25	12	20.30	20.52	20.34	20.41	22	0
10	QPSK	25	25	20.21	20.47	20.21	20.27		
10	QPSK	50	0	20.28	20.45	20.43	20.37		
10	16QAM	1	0	20.29	20.48	20.37	20.41		
10	16QAM	1	25	20.30	20.50	20.20	20.40	22	0
10	16QAM	1	49	20.32	20.51	20.35	20.25		
10	16QAM	25	0	20.38	20.50	20.38	20.25		
10	16QAM	25	12	20.34	20.40	20.22	20.22		
10	16QAM	25	25	20.10	20.43	20.22	20.15	22	0
10	16QAM	50	0	20.38	20.27	20.30	20.13		
10	64QAM	1	0	20.15	20.26	20.19	20.05		
10	64QAM	1	25	20.11	20.22	20.16	20.11		
10	64QAM	1	49	20.11	20.28	20.13	20.03	21	1
10	64QAM	25	0	19.46	19.35	19.46	19.22		
10	64QAM	25	12	19.51	19.43	19.32	19.11		
10	64QAM	25	25	19.10	19.41	19.15	19.33		
10	64QAM	50	0	19.32	19.37	19.30	19.28		
Channel				55265	55810	56170	56715	Tune-up limit	MPR
Frequency (MHz)				3552.5	3607	3643	3697.5	(dBm)	(dB)
5	QPSK	1	0	20.42	20.52	20.49	20.46	22	0
5	QPSK	1	12	20.26	20.42	20.24	20.38		
5	QPSK	1	24	20.18	20.43	20.28	20.29		
5	QPSK	12	0	20.50	20.50	20.46	20.40		
5	QPSK	12	7	20.42	20.46	20.33	20.33	22	0
5	QPSK	12	13	20.29	20.45	20.13	20.22		
5	QPSK	25	0	20.31	20.39	20.42	20.43		
5	16QAM	1	0	20.24	20.50	20.46	20.43		
5	16QAM	1	12	20.29	20.51	20.34	20.34	22	0
5	16QAM	1	24	20.31	20.51	20.42	20.20		
5	16QAM	12	0	20.47	20.34	20.41	20.19		
5	16QAM	12	7	20.28	20.31	20.37	20.21		
5	16QAM	12	13	20.19	20.34	20.18	20.17	22	0
5	16QAM	25	0	20.18	20.32	20.38	20.26		
5	64QAM	1	0	20.05	20.09	20.01	20.16		
5	64QAM	1	12	20.06	20.11	20.01	20.09		
5	64QAM	1	24	20.04	20.29	20.04	20.01	21	1
5	64QAM	12	0	19.51	19.26	19.46	19.07		
5	64QAM	12	7	19.54	19.38	19.19	19.28		
5	64QAM	12	13	19.18	19.36	19.07	19.20		
5	64QAM	25	0	19.27	19.41	19.15	19.15		



Band 41 ECI6 Ant7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.02	20.20	20.44	20.25	20.34	21.5	0
20	QPSK	1	49	20.03	20.13	20.43	20.04	20.31		
20	QPSK	1	99	20.01	20.11	20.36	20.12	20.34		
20	QPSK	50	0	18.91	19.21	19.36	19.27	19.32	20.5	1
20	QPSK	50	24	19.10	19.20	19.35	19.12	19.31		
20	QPSK	50	50	19.11	19.09	19.31	19.23	19.34		
20	QPSK	100	0	19.08	19.23	19.33	19.29	19.27	20.5	1
20	16QAM	1	0	18.88	18.99	19.31	19.06	19.15		
20	16QAM	1	49	19.02	19.03	19.23	19.03	19.15		
20	16QAM	1	99	18.99	19.09	19.28	19.07	19.15	19.5	2
20	16QAM	50	0	18.11	18.27	18.39	18.10	18.34		
20	16QAM	50	24	18.06	18.30	18.27	18.03	18.23		
20	16QAM	50	50	18.19	18.15	18.33	18.14	18.46	19.5	2
20	16QAM	100	0	18.08	18.32	18.34	18.19	18.30		
20	16QAM	1	0	17.52	17.59	17.84	17.63	17.73		
20	64QAM	1	49	17.57	17.73	17.87	17.54	17.70	18.5	3
20	64QAM	1	99	17.62	17.68	17.82	17.70	17.81		
20	64QAM	50	0	17.14	17.23	17.32	17.05	17.34		
20	64QAM	50	24	17.17	17.38	17.34	17.19	17.32	18.5	3
20	64QAM	50	50	17.27	17.18	17.27	17.08	17.44		
20	64QAM	100	0	17.04	17.38	17.30	17.29	17.27		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.03	20.14	20.41	20.31	20.34	21.5	0
15	QPSK	1	37	20.00	20.06	20.37	19.95	20.30		
15	QPSK	1	74	20.02	20.11	20.38	20.00	20.27		
15	QPSK	36	0	18.82	19.10	19.23	18.19	19.14	20.5	1
15	QPSK	36	20	18.97	19.03	19.28	18.98	19.11		
15	QPSK	36	39	19.11	19.04	19.14	19.03	19.28		
15	QPSK	75	0	18.95	19.16	19.32	19.08	19.09	20.5	1
15	16QAM	1	0	18.84	18.93	19.28	19.01	18.95		
15	16QAM	1	37	19.02	18.97	19.08	18.82	19.16		
15	16QAM	1	74	18.92	19.01	19.20	18.93	18.94	19.5	2
15	16QAM	36	0	18.06	18.25	18.23	17.95	18.16		
15	16QAM	36	20	17.86	18.32	18.28	17.98	18.21		
15	16QAM	36	39	17.99	18.12	18.17	18.02	18.35	19.5	2
15	16QAM	75	0	17.88	18.21	18.20	18.04	18.16		
15	64QAM	1	0	17.58	17.63	17.65	17.68	17.60		
15	64QAM	1	37	17.58	17.63	17.76	17.56	17.67	18.5	3
15	64QAM	1	74	17.50	17.66	17.73	17.69	17.65		
15	64QAM	36	0	17.05	17.07	17.15	17.00	17.21		
15	64QAM	36	20	17.05	17.22	17.21	17.04	17.15	18.5	3
15	64QAM	36	39	17.15	17.16	17.06	16.97	17.15		
15	64QAM	75	0	16.91	17.18	17.10	17.17	17.22		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.01	20.12	20.42	20.39	20.25	21.5	0
10	QPSK	1	25	20.01	20.06	20.35	20.04	20.20		
10	QPSK	1	49	19.96	20.08	20.37	19.92	20.20		
10	QPSK	25	0	18.83	19.20	19.29	19.08	19.18	20.5	1
10	QPSK	25	12	19.02	19.14	19.20	18.99	19.31		
10	QPSK	25	25	19.06	19.91	19.25	19.09	19.19		
10	QPSK	50	0	18.88	19.14	19.19	19.21	19.22	20.5	1
10	16QAM	1	0	18.71	18.90	19.10	18.98	19.10		
10	16QAM	1	25	18.81	18.92	19.18	18.99	19.00		
10	16QAM	1	49	18.96	19.06	19.07	18.88	19.03	19.5	2
10	16QAM	25	0	17.92	18.26	18.39	18.07	18.35		
10	16QAM	25	12	18.03	18.28	18.07	17.92	18.01		
10	16QAM	25	25	18.11	18.12	18.34	18.00	18.35	19.5	2
10	16QAM	50	0	17.92	18.18	18.31	18.07	18.25		
10	64QAM	1	0	17.60	17.68	17.70	17.54	17.52		
10	64QAM	1	25	17.57	17.67	17.85	17.56	17.59	18.5	3
10	64QAM	1	49	17.63	17.67	17.81	17.59	17.65		
10	64QAM	25	0	17.12	17.16	17.20	17.04	17.23		
10	64QAM	25	12	17.06	17.37	17.24	17.15	17.20	18.5	3
10	64QAM	25	25	17.08	17.20	17.11	16.99	17.35		
10	64QAM	50	0	17.06	17.22	17.24	17.30	17.25		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	19.96	20.11	20.35	20.15	20.16	21.5	0
5	QPSK	1	12	19.99	19.91	20.32	19.97	20.26		
5	QPSK	1	24	19.90	19.96	20.31	19.96	20.21		
5	QPSK	12	0	18.87	19.04	19.19	19.13	19.15	20.5	1
5	QPSK	12	7	18.89	19.03	19.29	19.04	19.24		
5	QPSK	12	13	18.93	19.07	19.18	19.16	19.17		
5	QPSK	25	0	19.07	19.13	19.17	19.17	19.12	20.5	1
5	16QAM	1	0	18.84	18.95	19.30	18.96	19.02		
5	16QAM	1	12	18.88	18.89	19.07	18.97	18.94		
5	16QAM	1	24	19.01	19.04	19.09	18.98	19.09	19.5	2
5	16QAM	12	0	18.05	18.25	18.25	18.00	18.19		
5	16QAM	12	7	18.02	18.21	18.29	17.83	18.23		
5	16QAM	12	13	18.08	18.03	18.13	18.07	18.26	19.5	2
5	16QAM	25	0	17.85	18.12	18.32	18.12	18.17		
5	64QAM	1	0	17.50	17.51	17.73	17.52	17.60		
5	64QAM	1	12	17.52	17.51	17.83	17.54	17.58	18.5	3
5	64QAM	1	24	17.56	17.53	17.78	17.62	17.74		
5	64QAM	12	0	17.09	17.04	17.29	16.91	17.23		
5	64QAM	12	7	17.07	17.27	17.13	17.11	17.25	18.5	3
5	64QAM	12	13	17.25	17.06	17.15	16.99	17.35		
5	64QAM	25	0	16.88	17.20	17.17	17.24	17.27		

Band 41 HPUE ECI6 Ant7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.14	23.22	23.37	23.29	23.34	24.5	0
20	QPSK	1	49	23.04	23.07	23.33	23.22	23.24		
20	QPSK	1	99	23.35	23.29	23.31	23.16	23.21		
20	QPSK	50	0	22.31	22.35	22.52	22.29	22.35	23.5	1
20	QPSK	50	24	22.11	22.09	22.36	22.35	22.37		
20	QPSK	50	50	22.10	22.32	22.43	22.26	22.32		
20	QPSK	100	0	22.12	22.21	22.47	22.24	22.31	23.5	1
20	16QAM	1	0	22.25	22.31	22.55	22.45	22.64		
20	16QAM	1	49	22.22	22.29	22.53	22.39	22.38		
20	16QAM	1	99	22.25	22.31	22.45	22.46	22.53	22.5	2
20	16QAM	50	0	21.26	21.24	21.55	21.39	21.30		
20	16QAM	50	24	21.11	21.06	21.40	21.27	21.33		
20	16QAM	50	50	21.17	21.40	21.32	21.22	21.21	22.5	2
20	16QAM	100	0	21.20	21.19	21.46	21.31	21.30		
20	64QAM	1	0	21.07	21.17	21.30	21.33	21.46		
20	64QAM	1	49	21.07	21.03	21.24	21.33	21.44	21.5	3
20	64QAM	1	99	21.06	21.28	21.27	21.25	21.15		
20	64QAM	50	0	20.39	20.39	20.67	20.27	20.38		
20	64QAM	50	24	20.23	20.39	20.56	20.33	20.43	21.5	3
20	64QAM	50	50	20.27	20.42	20.51	20.35	20.25		
20	64QAM	100	0	20.33	20.21	20.62	20.18	20.38		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.07	23.19	23.29	23.31	23.27	24.5	0
15	QPSK	1	37	23.03	23.01	23.34	23.05			



ECIT Power

GSM850 Ant0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	29.00	19.12	19.23	19.02	20.00
GSM11 Tx slot	29.12	28.23	28.02	29.00	18.99	19.01	18.94	20.00
GPRS 1 Tx slot	27.99	28.01	27.94	29.00	18.99	19.01	18.94	20.00
GPRS 2 Tx slots	28.92	26.97	26.99	28.00	20.92	20.97	20.99	22.00
GPRS 3 Tx slots	24.88	24.95	24.90	26.00	20.62	20.69	20.64	21.74
GPRS 4 Tx slots	23.70	23.81	23.74	25.00	20.70	20.81	20.74	22.00
EDGE 1 Tx slot	21.72	21.77	21.67	23.00	12.72	12.77	12.67	14.00
EDGE 2 Tx slots	20.59	20.76	20.56	21.50	14.59	14.76	14.56	15.50
EDGE 3 Tx slots	18.42	18.37	18.43	19.50	14.16	14.11	14.17	15.24
EDGE 4 Tx slots	17.01	17.01	16.99	18.00	14.01	14.01	13.99	15.00

GSM1900 Ant0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1909.8	29.00	18.50	18.60	19.09	20.00
GSM11 Tx slot	20.02	20.18	20.04	20.50	11.02	11.18	11.04	11.50
GPRS 1 Tx slot	20.14	20.14	19.99	20.50	11.14	11.14	10.99	11.50
GPRS 2 Tx slots	19.31	19.37	19.04	19.50	13.31	13.37	13.04	13.50
GPRS 3 Tx slots	17.23	17.32	16.95	18.00	12.97	13.06	12.69	13.74
GPRS 4 Tx slots	16.05	16.22	15.96	16.50	13.05	13.22	12.96	13.50
EDGE 1 Tx slot	15.83	15.79	15.53	17.00	6.83	6.79	6.53	8.00
EDGE 2 Tx slots	14.73	14.69	14.58	16.00	8.73	8.69	8.58	10.00
EDGE 3 Tx slots	12.73	12.82	12.52	14.00	8.47	8.56	8.26	9.74
EDGE 4 Tx slots	11.24	11.37	11.30	12.50	8.24	8.37	8.30	9.50

Band TX Channel	WCDMA II Ant0			Tune-up Limit (dBm)	WCDMA IV Ant0			Tune-up Limit (dBm)	WCDMA V Ant0			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458			
Frequency (MHz)	1924.4	1950	1977.8	1722.4	1722.5	1722.8	2024	2024	2024	2024	2024	
3GPP Rel 99	AMR 12.2Kbps	12.86	12.98	12.97	14.50	14.40	14.43	14.39	16.00	20.18	20.19	20.05
3GPP Rel 99	RMC 12.2Kbps	12.87	12.99	12.96	14.50	14.50	14.52	14.35	16.00	20.12	20.21	20.07
3GPP Rel 6	HSDPA Subtest-1	11.85	11.98	11.82	13.50	13.52	13.55	13.26	15.00	19.09	19.23	18.96
3GPP Rel 6	HSDPA Subtest-2	11.87	11.96	12.03	13.50	13.36	13.52	13.42	15.00	19.04	19.26	19.10
3GPP Rel 6	HSDPA Subtest-3	11.22	11.46	11.24	13.00	12.96	13.04	12.88	14.50	18.61	18.63	18.66
3GPP Rel 6	HSDPA Subtest-4	11.40	11.41	11.55	13.00	13.04	12.99	12.74	14.50	18.74	18.73	18.57
3GPP Rel 6	DCHSDPA Subtest-1	11.69	12.05	11.84	13.50	13.38	13.42	13.40	15.00	19.24	19.28	19.09
3GPP Rel 6	DCHSDPA Subtest-2	11.80	11.96	11.98	13.50	13.51	13.66	13.36	15.00	19.30	19.34	19.14
3GPP Rel 6	DCHSDPA Subtest-3	11.10	11.48	11.09	13.00	12.95	13.03	12.89	14.50	18.71	18.70	18.59
3GPP Rel 6	DCHSDPA Subtest-4	11.20	11.26	11.49	13.00	13.04	12.96	12.83	14.50	18.69	18.75	18.54
3GPP Rel 6	HSUPA Subtest-1	11.74	11.89	11.62	13.50	13.45	13.55	13.22	15.00	19.11	19.20	19.26
3GPP Rel 6	HSUPA Subtest-2	9.83	9.92	9.88	11.50	11.58	11.58	11.34	13.00	17.07	17.25	17.04
3GPP Rel 6	HSUPA Subtest-3	10.84	11.12	10.97	12.50	12.47	12.35	12.39	14.00	18.17	18.27	18.26
3GPP Rel 6	HSUPA Subtest-4	9.81	9.99	10.05	11.50	11.43	11.39	11.27	13.00	17.07	17.13	17.00
3GPP Rel 6	HSUPA Subtest-5	11.83	11.90	11.82	13.50	13.54	13.61	13.29	15.00	19.24	19.25	19.10
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	9.35	9.50	9.43	11.00	10.98	11.10	10.69	12.50	16.60	16.59	16.56



Band 2 Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				18700	18900	19100		
20	QPSK	1	0	13.09	13.09	13.09	14.5	0
20	QPSK	1	49	13.05	13.00	13.04		
20	QPSK	1	99	12.81	12.96	12.91		
20	QPSK	50	0	12.99	13.07	12.96		
20	QPSK	50	24	12.88	13.01	12.87	14.5	0
20	QPSK	50	50	12.99	13.01	12.96		
20	QPSK	100	0	12.97	13.07	13.02		
20	16QAM	1	0	12.91	13.06	12.85		
20	16QAM	1	49	12.97	12.90	12.87	14.5	0
20	16QAM	1	99	12.73	12.89	12.80		
20	16QAM	50	0	12.62	12.85	12.76		
20	16QAM	50	24	12.89	12.91	12.85	14.5	0
20	16QAM	50	50	12.82	12.96	12.79		
20	16QAM	100	0	12.79	12.85	12.80		
20	64QAM	1	0	12.80	12.88	12.74		
20	64QAM	1	49	12.79	12.90	12.82	14.5	0
20	64QAM	1	99	12.81	12.89	12.71		
20	64QAM	50	0	12.71	12.78	12.68		
20	64QAM	50	24	12.72	12.81	12.82	14.5	0
20	64QAM	50	50	12.64	12.78	12.66		
20	64QAM	100	0	12.52	12.64	12.54		
Channel								
Frequency (MHz)				18675	18900	19125		
15	QPSK	1	0	13.10	13.11	13.09	14.5	0
15	QPSK	1	37	13.02	13.07	13.01		
15	QPSK	1	74	12.83	13.04	12.96		
15	QPSK	36	0	12.96	13.06	12.96	14.5	0
15	QPSK	36	20	12.91	13.03	12.88		
15	QPSK	36	39	13.00	13.05	12.97		
15	QPSK	75	0	12.96	13.12	13.06		
15	16QAM	1	0	12.88	13.05	12.88		
15	16QAM	1	37	12.89	12.88	12.93	14.5	0
15	16QAM	1	74	12.77	12.87	12.77		
15	16QAM	36	0	12.71	12.85	12.70		
15	16QAM	36	20	12.92	12.92	12.92	14.5	0
15	16QAM	36	39	12.84	12.94	12.84		
15	16QAM	75	0	12.76	12.84	12.73		
15	64QAM	1	0	12.77	12.89	12.72		
15	64QAM	1	37	12.79	12.83	12.77	14.5	0
15	64QAM	1	74	12.79	12.82	12.69		
15	64QAM	36	0	12.71	12.83	12.68		
15	64QAM	36	20	12.77	12.75	12.59	14.5	0
15	64QAM	36	39	12.65	12.76	12.66		
15	64QAM	75	0	12.52	12.60	12.54		
Channel								
Frequency (MHz)				18650	18900	19150		
10	QPSK	1	0	13.11	13.10	13.07	14.5	0
10	QPSK	1	25	13.04	13.04	13.04		
10	QPSK	1	49	12.86	12.94	12.95		
10	QPSK	25	0	13.01	13.07	12.93		
10	QPSK	25	12	12.87	13.00	12.85	14.5	0
10	QPSK	25	25	13.07	13.09	12.95		
10	QPSK	50	0	12.92	13.12	12.99		
10	16QAM	1	0	12.92	12.97	12.88		
10	16QAM	1	25	12.81	12.93	12.88	14.5	0
10	16QAM	1	49	12.72	12.91	12.81		
10	16QAM	25	0	12.66	12.78	12.73		
10	16QAM	25	12	12.86	12.97	12.86	14.5	0
10	16QAM	25	25	12.81	12.95	12.79		
10	16QAM	50	0	12.81	12.84	12.76		
10	64QAM	1	0	12.90	12.88	12.77	14.5	0
10	64QAM	1	25	12.76	12.88	12.77		
10	64QAM	1	49	12.80	12.82	12.68		
10	64QAM	25	0	12.73	12.81	12.66		
10	64QAM	25	12	12.67	12.74	12.68	14.5	0
10	64QAM	25	25	12.62	12.77	12.66		
10	64QAM	50	0	12.51	12.63	12.53		
Channel								
Frequency (MHz)				18625	18900	19175		
5	QPSK	1	0	13.12	13.14	13.10	14.5	0
5	QPSK	1	12	13.04	13.00	13.00		
5	QPSK	1	24	12.81	13.00	12.86		
5	QPSK	12	0	13.06	13.12	12.99	14.5	0
5	QPSK	12	7	12.92	13.06	12.83		
5	QPSK	12	13	13.00	13.04	12.98		
5	QPSK	25	0	12.97	13.07	13.07		
5	16QAM	1	0	12.84	13.05	12.84		
5	16QAM	1	12	12.82	12.87	12.93	14.5	0
5	16QAM	1	24	12.79	12.91	12.80		
5	16QAM	12	0	12.83	12.86	12.74		
5	16QAM	12	7	12.83	12.91	12.82	14.5	0
5	16QAM	12	13	12.78	12.90	12.84		
5	16QAM	25	0	12.83	12.86	12.72		
5	64QAM	1	0	12.78	12.88	12.71		
5	64QAM	1	12	12.74	12.82	12.76	14.5	0
5	64QAM	1	24	12.79	12.89	12.70		
5	64QAM	12	0	12.72	12.81	12.64		
5	64QAM	12	7	12.83	12.83	12.68	14.5	0
5	64QAM	12	13	12.64	12.72	12.66		
5	64QAM	25	0	12.52	12.64	12.52		
Channel								
Frequency (MHz)				18815	18900	19185		
3	QPSK	1	0	13.11	13.23	13.25	14.5	0
3	QPSK	1	8	13.11	13.14	13.12		
3	QPSK	1	14	12.93	13.04	12.99		
3	QPSK	8	0	13.15	13.25	13.01	14.5	0
3	QPSK	8	4	13.01	13.15	12.96		
3	QPSK	8	7	13.15	13.19	13.06		
3	QPSK	15	0	13.07	13.15	13.16		
3	16QAM	1	0	13.02	13.11	13.00		
3	16QAM	1	8	12.98	12.97	13.04	14.5	0
3	16QAM	1	14	12.85	13.02	12.88		
3	16QAM	8	0	12.81	12.97	12.86		
3	16QAM	8	4	12.98	13.09	12.93	14.5	0
3	16QAM	8	7	12.92	13.05	12.89		
3	16QAM	15	0	12.86	12.91	12.84		
3	64QAM	1	0	12.90	12.96	12.82		
3	64QAM	1	8	12.87	12.92	12.85	14.5	0
3	64QAM	1	14	12.87	12.95	12.77		
3	64QAM	8	0	12.88	12.95	12.78		
3	64QAM	8	4	12.79	12.87	12.77	14.5	0
3	64QAM	8	7	12.72	12.81	12.80		
3	64QAM	15	0	12.53	12.68	12.58		
Channel								
Frequency (MHz)				18900	18900	19000		
1.4	QPSK	1	0	13.15	13.23	13.25	14.5	0
1.4	QPSK	1	3	13.13	13.19	13.12		
1.4	QPSK	1	5	12.98	13.09	13.04		
1.4	QPSK	3	0	13.11	13.23	13.02		
1.4	QPSK	3	1	13.01	13.16	12.98	14.5	0
1.4	QPSK	3	3	13.07	13.19	13.10		
1.4	QPSK	3	6	13.12	13.17	13.16		
1.4	16QAM	1	0	13.02	13.08	12.97		
1.4	16QAM	1	3	13.05	12.97	12.94	14.5	0
1.4	16QAM	1	5	12.85	13.05	12.89		
1.4	16QAM	3	0	12.74	12.91	12.85		
1.4	16QAM	3	1	12.99	13.03	12.95	14.5	0
1.4	16QAM	3	3	12.90	13.05	12.95		
1.4	16QAM	6	0	12.86	12.97	12.82	14.5	0
1.4	64QAM	1	0	12.93	12.96	12.81		
1.4	64QAM	1	3	12.89	12.98	12.89		
1.4	64QAM	1	5	12.86	12.95	12.83	14.5	0
1.4	64QAM	3	0	12.84	12.89	12.81		
1.4	64QAM	3	1	12.83	12.89	12.79		
1.4	64QAM	3	3	12.75	12.88	12.78	14.5	0
1.4	64QAM	6	0	12.62	12.69	12.58		

Band 4 Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				20050	20175	20300		
20	QPSK	1	0	14.83	14.85	14.83	16.5	0
20	QPSK	1	49	14.69	14.71	14.64		
20	QPSK	1	99	14.59	14.74	14.63		
20	QPSK	50	0	14.77	14.92	14.86		
20	QPSK	50	24	14.68	14.82	14.75	16.5	0
20	QPSK	50	50	14.63	14.84	14.79		
20	QPSK	100	0	14.79	14.88	14.71		
20	16QAM	1	0	14.74	14.84	14.76		
20	16QAM	1	49	14.60	14.82	14.64	16.5	0
20	16QAM	1	99					



Band 12 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.70	22.72	22.74	24	0	
10	QPSK	1	25	22.55	22.66	22.49			
10	QPSK	1	49	22.65	22.67	22.62			
10	QPSK	25	0	21.59	21.82	21.88	23	1	
10	QPSK	25	12	21.53	21.54	21.58			
10	QPSK	25	25	21.71	21.73	21.55			
10	QPSK	50	0	21.49	21.69	21.54	23	1	
10	16QAM	1	0	21.82	22.02	22.01			
10	16QAM	1	25	21.64	21.76	21.76			
10	16QAM	1	49	21.74	21.91	21.88	22	2	
10	16QAM	25	0	20.64	20.88	20.71			
10	16QAM	25	12	20.60	20.60	20.69			
10	16QAM	25	25	20.59	20.71	20.45	22	2	
10	16QAM	50	0	20.58	20.66	20.42			
10	16QAM	1	0	20.70	20.98	20.95			
10	64QAM	1	25	20.53	20.68	20.84	22	2	
10	64QAM	1	49	20.66	20.85	20.80			
10	64QAM	25	0	19.60	19.88	19.69			
10	64QAM	25	12	19.56	19.64	19.64	21	3	
10	64QAM	25	25	19.51	19.77	19.56			
10	64QAM	50	0	19.47	19.60	19.33			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.51	22.68	22.51	24	0	
5	QPSK	1	12	22.53	22.46	22.29			
5	QPSK	1	24	22.49	22.50	22.46			
5	QPSK	12	0	21.35	21.71	21.51	23	1	
5	QPSK	12	7	21.45	21.37	21.36			
5	QPSK	12	13	21.65	21.72	21.51			
5	QPSK	25	0	21.41	21.60	21.37	23	1	
5	16QAM	1	0	21.73	21.87	21.87			
5	16QAM	1	12	21.54	21.76	21.57			
5	16QAM	1	24	21.71	21.76	21.85	22	2	
5	16QAM	12	0	20.61	20.85	20.51			
5	16QAM	12	7	20.56	20.40	20.62			
5	16QAM	12	13	20.53	20.55	20.36	22	2	
5	16QAM	25	0	20.37	20.52	20.19			
5	64QAM	1	0	20.45	20.85	20.79			
5	64QAM	1	12	20.48	20.60	20.75	22	2	
5	64QAM	1	24	20.63	20.73	20.79			
5	64QAM	12	0	19.43	19.83	19.54			
5	64QAM	12	7	19.51	19.46	19.46	21	3	
5	64QAM	12	13	19.39	19.58	19.58			
5	64QAM	25	0	19.34	19.39	19.26			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.57	22.64	22.80	24	0	
3	QPSK	1	8	22.48	22.45	22.34			
3	QPSK	1	14	22.52	22.49	22.49			
3	QPSK	8	0	21.39	21.79	21.65	23	1	
3	QPSK	8	4	21.50	21.31	21.54			
3	QPSK	8	7	21.67	21.54	21.53			
3	QPSK	15	0	21.29	21.53	21.30	23	1	
3	16QAM	1	0	21.66	21.79	21.65			
3	16QAM	1	8	21.47	21.76	21.58			
3	16QAM	1	14	21.69	21.85	21.78	22	2	
3	16QAM	8	0	20.53	20.61	20.51			
3	16QAM	8	4	20.37	20.58	20.60			
3	16QAM	8	7	20.49	20.46	20.42	22	2	
3	16QAM	15	0	20.51	20.57	20.31			
3	64QAM	1	0	20.53	20.86	20.76			
3	64QAM	1	8	20.48	20.51	20.72	21	3	
3	64QAM	1	14	20.62	20.70	20.60			
3	64QAM	8	0	19.41	19.83	19.48			
3	64QAM	8	4	19.49	19.54	19.40	21	3	
3	64QAM	8	7	19.42	19.74	19.53			
3	64QAM	15	0	19.36	19.58	19.23			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.41	22.66	22.48	24	0	
1.4	QPSK	1	3	22.33	22.39	22.25			
1.4	QPSK	1	5	22.46	22.44	22.28			
1.4	QPSK	3	0	22.37	22.65	22.46	23	1	
1.4	QPSK	3	1	22.46	22.31	22.15			
1.4	QPSK	3	3	22.31	22.40	22.51			
1.4	QPSK	6	0	21.46	21.83	21.42	23	1	
1.4	16QAM	1	0	21.77	21.78	21.83			
1.4	16QAM	1	3	21.59	21.63	21.64			
1.4	16QAM	1	5	21.56	21.79	21.79	23	1	
1.4	16QAM	3	0	21.75	21.76	21.65			
1.4	16QAM	3	1	21.50	21.41	21.83			
1.4	16QAM	3	3	21.42	21.78	21.69	22	2	
1.4	16QAM	6	0	20.54	20.72	20.88			
1.4	64QAM	1	0	20.60	20.76	20.70			
1.4	64QAM	1	3	20.40	20.59	20.62	22	2	
1.4	64QAM	1	5	20.56	20.75	20.67			
1.4	64QAM	3	0	20.55	20.67	20.59			
1.4	64QAM	3	0	20.26	20.37	20.46	21	3	
1.4	64QAM	3	3	20.43	20.74	20.67			
1.4	64QAM	6	0	19.38	19.59	19.15			

Band 13 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.75	22.75	22.75	24	0	
10	QPSK	1	25	22.70	22.70	22.70			
10	QPSK	1	49	22.73	22.73	22.73			
10	QPSK	25	0	21.57	21.57	21.57	23	1	
10	QPSK	25	12	21.51	21.51	21.51			
10	QPSK	25	25	21.54	21.54	21.54			
10	QPSK	50	0	21.76	21.76	21.76	23	1	
10	16QAM	1	0	21.93	21.93	21.93			
10	16QAM	1	25	21.83	21.83	21.83			
10	16QAM	1	49	21.89	21.89	21.89	22	2	
10	16QAM	25	0	20.59	20.59	20.59			
10	16QAM	25	12	20.41	20.41	20.41			
10	16QAM	25	25	20.53	20.53	20.53	22	2	
10	16QAM	50	0	20.73	20.73	20.73			
10	64QAM	1	0	20.87	20.87	20.87			
10	64QAM	1	25	20.61	20.61	20.61	22	2	
10	64QAM	1	49	20.70	20.70	20.70			
10	64QAM	25	0	19.59	19.59	19.59			
10	64QAM	25	12	19.63	19.63	19.63	21	3	
10	64QAM	25	25	19.56	19.56	19.56			
10	64QAM	50	0	19.72	19.72	19.72			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.64	22.73	22.72	24	0	
5	QPSK	1	12	22.68	22.62	22.63			
5	QPSK	1	24	22.74	22.74	22.67			
5	QPSK	12	0	21.54	21.57	21.42	23	1	
5	QPSK	12	7	21.50	21.46	21.35			
5	QPSK	12	13	21.51	21.34	21.47			
5	QPSK	25	0	21.76	21.56	21.59	23	1	
5	16QAM	1	0	21.87	21.85	21.82			
5	16QAM	1	12	21.69	21.76	21.85			
5	16QAM	1	24	21.89	21.88	21.81	22	2	
5	16QAM	12	0	20.51	20.42	20.58			
5	16QAM	12	7	20.38	20.40	20.21			
5	16QAM	12	13	20.47	20.39	20.37	22	2	
5	16QAM	25	0	20.72	20.63	20.53			
5	64QAM	1	0	20.73	20.71	20.70			
5	64QAM	1	12	20.41	20.62	20.63	22	2	
5	64QAM	1	24	20.61	20.70	20.62			
5	64QAM	12	0	19.46	19.55	19.56			
5	64QAM	12	7	19.51	19.45	19.59	21	3	
5	64QAM	12	13	19.47	19.51	19.42			
5	64QAM	25	0	19.56	19.53	19.66			

Band 14 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.77	22.77	22.77	24	0	
10	QPSK	1	25	22.75	22.75	22.75			
10	QPSK	1	49	22.70	22.70	22.70			
10	QPSK	25	0	21.80	21.80	21.80	23	1	
10	QPSK	25	12	21.68	21.68	21.68			
10	QPSK	25	25	21.65	21.65	21.65			
10	QPSK	50	0	21.78	21.78	21.78	23	1	
10	16QAM	1	0	22.04	22.04	22.04			
10	16QAM	1	25	21.90	21.90	21.90			
10	16QAM	1	49	21.87	21.87	21.87	23	1	
10	16QAM	25	0	20.78	20.78	20.78			
10	16QAM	25	12	20.57	20.57	20.57			
10	16QAM	25	25	20.65	20.65	20.65	22	2	
10	16QAM	50	0	20.76	20.76	20.76			
10	64QAM	1	0	20.92	20.92	20.92			
10	64QAM	1	25	20.92	20.92	20.92	22	2	
10	64QAM	1	49	20.88					



Band 17 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.60	22.69	22.64			
10	QPSK	1	25	22.48	22.64	22.53			
10	QPSK	1	49	22.49	22.58	22.45			
10	QPSK	25	0	21.70	21.89	21.85			
10	QPSK	25	12	21.72	21.82	21.79			
10	QPSK	25	25	21.61	21.79	21.60			
10	QPSK	50	0	21.68	21.89	21.82			
10	16QAM	1	0	21.86	21.97	21.80			
10	16QAM	1	25	21.69	21.72	21.73			
10	16QAM	1	49	21.75	21.70	21.71			
10	16QAM	25	0	20.64	20.93	20.93			
10	16QAM	25	12	20.74	20.73	20.82			
10	16QAM	25	25	20.69	20.89	20.88			
10	16QAM	50	0	20.78	20.90	20.86			
10	64QAM	1	0	20.90	20.96	20.89			
10	64QAM	1	25	20.80	20.75	20.84			
10	64QAM	1	49	20.84	20.82	20.88			
10	64QAM	25	0	19.88	19.85	19.98			
10	64QAM	25	12	19.91	19.84	19.88			
10	64QAM	25	25	19.77	19.93	19.59			
10	64QAM	50	0	19.89	19.87	19.74			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.48	22.61	22.64			
5	QPSK	1	12	22.31	22.49	22.50			
5	QPSK	1	24	22.27	22.39	22.37			
5	QPSK	12	0	21.52	21.86	21.64			
5	QPSK	12	7	21.51	21.80	21.66			
5	QPSK	12	13	21.40	21.76	21.80			
5	QPSK	25	0	21.70	21.83	21.85			
5	16QAM	1	0	21.77	21.86	21.75			
5	16QAM	1	12	21.64	21.70	21.53			
5	16QAM	1	24	21.60	21.69	21.60			
5	16QAM	12	0	20.43	20.87	20.91			
5	16QAM	12	7	20.76	20.54	20.76			
5	16QAM	12	13	20.71	20.80	20.54			
5	16QAM	25	0	20.77	20.81	20.79			
5	64QAM	1	0	20.74	20.90	20.85			
5	64QAM	1	12	20.60	20.70	20.81			
5	64QAM	1	24	20.83	20.64	20.66			
5	64QAM	12	0	19.70	19.67	19.94			
5	64QAM	12	7	19.78	19.85	19.56			
5	64QAM	12	13	19.63	19.85	19.58			
5	64QAM	25	0	19.75	19.80	19.62			

Band 25 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	13.10	13.12	13.12			
20	QPSK	1	49	13.22	13.25	13.21			
20	QPSK	1	99	13.06	13.19	13.11			
20	QPSK	50	0	13.22	13.31	13.15			
20	QPSK	50	24	13.09	13.23	13.08			
20	QPSK	50	50	13.22	13.25	13.17			
20	QPSK	100	0	13.19	13.29	13.23			
20	16QAM	1	0	13.08	13.22	13.06			
20	16QAM	1	49	13.13	13.12	13.09			
20	16QAM	1	99	12.95	13.10	12.97			
20	16QAM	50	0	12.87	13.03	12.91			
20	16QAM	50	24	13.07	13.15	13.04			
20	16QAM	50	50	13.00	13.12	13.02			
20	16QAM	100	0	12.98	13.05	12.96			
20	64QAM	1	0	13.01	13.07	12.94			
20	64QAM	1	49	12.96	13.06	12.99			
20	64QAM	1	99	13.01	13.06	12.90			
20	64QAM	50	0	12.94	13.02	12.88			
20	64QAM	50	24	12.92	12.99	12.84			
20	64QAM	50	50	12.84	12.94	12.90			
20	64QAM	100	0	12.88	12.84	12.70			
Channel									
Frequency (MHz)									
15	QPSK	1	0	13.18	13.25	13.27			
15	QPSK	1	37	13.09	13.13	13.11			
15	QPSK	1	74	12.90	13.04	13.06			
15	QPSK	36	0	13.07	13.26	13.05			
15	QPSK	36	20	12.99	13.13	13.00			
15	QPSK	36	39	13.13	13.09	13.09			
15	QPSK	75	0	13.05	13.17	13.11			
15	16QAM	1	0	12.92	13.16	12.95			
15	16QAM	1	37	12.91	12.97	12.94			
15	16QAM	1	74	12.79	12.93	12.88			
15	16QAM	36	0	12.71	12.89	12.87			
15	16QAM	36	20	12.97	13.12	12.87			
15	16QAM	36	39	12.94	12.98	12.95			
15	16QAM	75	0	12.91	12.88	12.85			
15	64QAM	1	0	12.91	12.96	12.88			
15	64QAM	1	37	12.91	12.92	12.90			
15	64QAM	1	74	12.89	12.99	12.79			
15	64QAM	36	0	12.86	12.86	12.77			
15	64QAM	36	20	12.79	12.85	12.74			
15	64QAM	36	39	12.80	12.82	12.87			
15	64QAM	75	0	12.80	12.80	12.86			
Channel									
Frequency (MHz)									
10	QPSK	1	0	13.19	13.24	13.27			
10	QPSK	1	25	13.10	13.21	13.06			
10	QPSK	1	49	13.00	13.05	13.07			
10	QPSK	25	0	13.07	13.22	12.98			
10	QPSK	25	12	12.94	13.11	12.98			
10	QPSK	25	25	13.11	13.19	13.16			
10	QPSK	50	0	13.07	13.21	13.15			
10	16QAM	1	0	12.99	13.15	12.97			
10	16QAM	1	25	13.00	13.09	12.92			
10	16QAM	1	49	12.89	13.01	12.88			
10	16QAM	25	0	12.71	12.88	12.87			
10	16QAM	25	12	13.03	13.01	13.00			
10	16QAM	25	25	12.88	13.08	12.98			
10	16QAM	50	0	12.92	12.93	12.90			
10	64QAM	1	0	12.85	12.95	12.84			
10	64QAM	1	25	12.85	12.99	12.88			
10	64QAM	1	49	12.88	12.93	12.78			
10	64QAM	25	0	12.79	12.98	12.80			
10	64QAM	25	12	12.89	12.84	12.77			
10	64QAM	25	25	12.71	12.81	12.83			
10	64QAM	50	0	12.56	12.68	12.62			
Channel									
Frequency (MHz)									
5	QPSK	1	0	13.20	13.22	13.27			
5	QPSK	1	12	13.19	13.10	13.17			
5	QPSK	1	24	12.94	13.06	12.98			
5	QPSK	12	0	13.06	13.23	12.99			
5	QPSK	12	7	12.97	13.11	13.00			
5	QPSK	12	13	13.16	13.20	13.00			
5	16QAM	1	0	13.05	13.21	13.08			
5	16QAM	1	12	12.99	13.09	12.90			
5	16QAM	1	24	12.94	13.07	12.94			
5	16QAM	12	0	12.87	12.96	12.83			
5	16QAM	12	7	12.76	12.99	12.83			
5	16QAM	12	13	12.94	13.10	12.98			
5	16QAM	25	0	12.89	12.98	12.86			
5	64QAM	1	0	12.89	12.90	12.80			
5	64QAM	1	12	12.83	12.96	12.88			
5	64QAM	1	24	12.89	13.00	12.78			
5	64QAM	12	0	12.80	12.97	12.80			
5	64QAM	12	7	12.83	12.90	12.75			
5	64QAM	12	13	12.76	12.85	12.75			
5	64QAM	25	0	12.54	12.71	12.62			
Channel									
Frequency (MHz)									
3	QPSK	1	0	13.16	13.22	13.29			
3	QPSK	1	8	13.13	13.14	13.17			
3	QPSK	1	14	13.00	13.15	12.99			
3	QPSK	8	0	13.14	13.22	13.04			
3	QPSK	8	4	13.02	13.19	13.02			
3	QPSK	8	7	13.08	13.21	13.04			
3	QPSK	15	0	13.04	13.19	13.08			
3	16QAM	1	0	12.92	13.09	13.02			
3	16QAM	1	8	12.95	13.03	12.97			
3	16QAM	1	14						



Band 66 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	14.80	15.07	15.04		
20	QPSK	1	49	14.80	14.77	14.77	16.5	0
20	QPSK	1	99	14.71	14.89	14.72		
20	QPSK	50	0	14.93	15.03	15.00		
20	QPSK	50	24	14.77	14.91	14.81	16.5	0
20	QPSK	50	50	14.76	15.00	14.91		
20	QPSK	100	0	14.92	15.00	14.76		
20	16QAM	1	0	14.82	14.89	14.83		
20	16QAM	1	49	14.83	14.90	14.72	16.5	0
20	16QAM	1	99	14.80	14.94	14.83		
20	16QAM	50	0	14.78	14.92	14.75		
20	16QAM	50	24	14.81	14.83	14.79	16.5	0
20	16QAM	50	50	14.92	14.89	14.78		
20	16QAM	100	0	14.87	14.93	14.83		
20	64QAM	1	0	14.75	14.80	14.74		
20	64QAM	1	49	14.85	14.92	14.84	16.5	0
20	64QAM	1	99	14.83	14.90	14.76		
20	64QAM	50	0	14.82	14.92	14.77		
20	64QAM	50	24	14.85	14.82	14.88	16.5	0
20	64QAM	50	50	14.75	14.93	14.78		
20	64QAM	100	0	14.75	14.80	14.81		
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	14.74	15.02	14.97		
15	QPSK	1	37	14.70	14.65	14.62	16.5	0
15	QPSK	1	74	14.66	14.75	14.65		
15	QPSK	36	0	14.87	14.91	14.93		
15	QPSK	36	20	14.63	14.80	14.70	16.5	0
15	QPSK	36	39	14.69	14.85	14.79		
15	QPSK	75	0	14.81	14.86	14.70		
15	16QAM	1	0	14.77	14.83	14.70		
15	16QAM	1	37	14.80	14.77	14.60	16.5	0
15	16QAM	1	74	14.64	14.80	14.78		
15	16QAM	36	0	14.68	14.79	14.69		
15	16QAM	36	20	14.70	14.70	14.69	16.5	0
15	16QAM	36	39	14.81	14.81	14.68		
15	16QAM	75	0	14.87	14.82	14.71		
15	64QAM	1	0	14.63	14.86	14.67		
15	64QAM	1	37	14.73	14.78	14.73	16.5	0
15	64QAM	1	74	14.72	14.81	14.71		
15	64QAM	36	0	14.70	14.84	14.68		
15	64QAM	36	20	14.81	14.85	14.81	16.5	0
15	64QAM	36	39	14.63	14.87	14.68		
15	64QAM	75	0	14.69	14.70	14.66		
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	14.81	14.97	14.89		
10	QPSK	1	25	14.74	14.64	14.68	16.5	0
10	QPSK	1	49	14.59	14.82	14.58		
10	QPSK	25	0	14.79	14.89	14.87		
10	QPSK	25	12	14.69	14.79	14.70	16.5	0
10	QPSK	25	25	14.70	14.90	14.77		
10	QPSK	50	0	14.87	14.92	14.86		
10	16QAM	1	0	14.71	14.79	14.69		
10	16QAM	1	25	14.87	14.82	14.81	16.5	0
10	16QAM	1	49	14.70	14.88	14.85		
10	16QAM	25	0	14.68	14.78	14.68		
10	16QAM	25	12	14.74	14.78	14.69	16.5	0
10	16QAM	25	25	14.80	14.78	14.71		
10	16QAM	50	0	14.89	14.89	14.83		
10	64QAM	1	0	14.66	14.75	14.65		
10	64QAM	1	25	14.75	14.80	14.77	16.5	0
10	64QAM	1	49	14.76	14.86	14.66		
10	64QAM	25	0	14.71	14.80	14.62		
10	64QAM	25	12	14.74	14.82	14.80	16.5	0
10	64QAM	25	25	14.61	14.87	14.62		
10	64QAM	50	0	14.68	14.72	14.76		
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	14.79	14.99	14.97		
5	QPSK	1	12	14.65	14.72	14.72	16.5	0
5	QPSK	1	24	14.62	14.79	14.58		
5	QPSK	12	0	14.83	14.92	14.94		
5	QPSK	12	7	14.64	14.81	14.74	16.5	0
5	QPSK	12	13	14.64	14.85	14.77		
5	QPSK	25	0	14.79	14.84	14.68		
5	16QAM	1	0	14.69	14.77	14.76		
5	16QAM	1	12	14.79	14.77	14.67	16.5	0
5	16QAM	1	24	14.68	14.82	14.83		
5	16QAM	12	0	14.69	14.77	14.70		
5	16QAM	12	7	14.66	14.70	14.65	16.5	0
5	16QAM	12	13	14.81	14.75	14.70		
5	16QAM	25	0	14.88	14.81	14.73		
5	64QAM	1	0	14.66	14.77	14.62		
5	64QAM	1	12	14.71	14.83	14.70	16.5	0
5	64QAM	1	24	14.74	14.80	14.65		
5	64QAM	12	0	14.69	14.83	14.69		
5	64QAM	12	7	14.72	14.85	14.76	16.5	0
5	64QAM	12	13	14.59	14.83	14.69		
5	64QAM	25	0	14.59	14.68	14.71		
Channel				131987	132322	132657		
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	14.75	14.91	14.94		
3	QPSK	1	8	14.71	14.72	14.71	16.5	0
3	QPSK	1	14	14.55	14.84	14.58		
3	QPSK	8	0	14.78	14.88	14.95		
3	QPSK	8	4	14.67	14.85	14.69	16.5	0
3	QPSK	8	7	14.62	14.85	14.79		
3	QPSK	15	0	14.79	14.91	14.62		
3	16QAM	1	0	14.76	14.81	14.75		
3	16QAM	1	8	14.83	14.77	14.64	16.5	0
3	16QAM	1	14	14.65	14.79	14.82		
3	16QAM	8	0	14.66	14.82	14.64		
3	16QAM	8	4	14.76	14.73	14.74	16.5	0
3	16QAM	8	7	14.84	14.75	14.74		
3	16QAM	15	0	14.67	14.88	14.68		
3	64QAM	1	0	14.70	14.82	14.66		
3	64QAM	1	8	14.76	14.82	14.72	16.5	0
3	64QAM	1	14	14.68	14.79	14.64		
3	64QAM	8	0	14.68	14.82	14.70		
3	64QAM	8	4	14.76	14.82	14.73	16.5	0
3	64QAM	8	7	14.59	14.86	14.66		
3	64QAM	15	0	14.64	14.71	14.75		
Channel				131979	132322	132669		
Frequency (MHz)				1710.7	1745	1779.2		
1.4	QPSK	1	0	14.82	14.92	14.95		
1.4	QPSK	1	3	14.74	14.66	14.61	16.5	0
1.4	QPSK	1	5	14.67	14.82	14.59		
1.4	QPSK	3	0	14.88	14.96	14.93		
1.4	QPSK	3	1	14.70	14.77	14.68		
1.4	QPSK	3	3	14.71	14.93	14.76		
1.4	QPSK	6	0	14.87	14.85	14.61	16.5	0
1.4	16QAM	1	0	14.68	14.81	14.68		
1.4	16QAM	1	3	14.61	14.86	14.66		
1.4	16QAM	1	5	14.71	14.82	14.79	16.5	0
1.4	16QAM	3	0	14.70	14.76	14.67		
1.4	16QAM	3	1	14.75	14.74	14.63		
1.4	16QAM	3	3	14.82	14.78	14.65		
1.4	16QAM	6	0	14.84	14.88	14.71	16.5	0
1.4	64QAM	1	0	14.61	14.85	14.60		
1.4	64QAM	1	3	14.71	14.81	14.74		
1.4	64QAM	1	5	14.70	14.74	14.71	16.5	0
1.4	64QAM	3	0	14.71	14.76	14.71		
1.4	64QAM	3	1	14.74	14.79	14.78		
1.4	64QAM	3	3	14.62	14.78	14.63		
1.4	64QAM	6	0	14.66	14.68	14.68	16.5	0

Band 71 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				672	682	688		
20	QPSK	1	0	22.47	22.62	22.66		
20	QPSK	1	49	22.45	22.58	22.49	24	0
20	QPSK	1	99	22.48	22.56	22.44		
20	QPSK	50	0	21.66	21.88	21.82		
20	QPSK	50	24	21.53	21.73	21.68	23	1
20	QPSK	50	50	21.68	21.70	21.68		



Band 7 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	16.37	16.60	16.16	18	0	
20	QPSK	1	49	16.42	16.54	16.15			
20	QPSK	1	99	16.33	16.50	16.42			
20	QPSK	50	0	16.36	16.59	16.10	18	0	
20	QPSK	50	24	16.37	16.57	16.33			
20	QPSK	50	50	16.30	16.49	16.10			
20	QPSK	100	0	16.47	16.56	16.14	18	0	
20	16QAM	1	0	16.34	16.57	16.13			
20	16QAM	1	49	16.32	16.52	16.13			
20	16QAM	1	99	16.45	16.45	16.10	18	0	
20	16QAM	50	0	16.34	16.58	16.10			
20	16QAM	50	24	16.26	16.41	16.35			
20	16QAM	50	50	16.46	16.57	16.16	18	0	
20	16QAM	100	0	16.33	16.54	16.08			
20	64QAM	1	0	16.38	16.43	16.31			
20	64QAM	1	49	16.43	16.53	16.16	18	0	
20	64QAM	1	99	16.39	16.56	16.11			
20	64QAM	50	0	16.36	16.55	16.12			
20	64QAM	50	24	16.40	16.49	16.10	18	0	
20	64QAM	50	50	16.29	16.58	16.13			
20	64QAM	100	0	16.28	16.53	16.14			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	16.48	16.52	16.06	18	0	
15	QPSK	1	37	16.35	16.47	16.14			
15	QPSK	1	74	16.29	16.49	16.15			
15	QPSK	36	0	16.41	16.50	16.18	18	0	
15	QPSK	36	20	16.40	16.56	16.39			
15	QPSK	36	39	16.32	16.41	16.33			
15	QPSK	75	0	16.45	16.49	16.12	18	0	
15	16QAM	1	0	16.36	16.50	16.32			
15	16QAM	1	37	16.30	16.47	16.12			
15	16QAM	1	74	16.46	16.55	16.17	18	0	
15	16QAM	36	0	16.40	16.49	16.37			
15	16QAM	36	20	16.33	16.42	16.10			
15	16QAM	36	39	16.47	16.58	16.09	18	0	
15	16QAM	75	0	16.30	16.49	16.07			
15	64QAM	1	0	16.26	16.46	16.05			
15	64QAM	1	37	16.41	16.48	16.12	18	0	
15	64QAM	1	74	16.39	16.53	16.11			
15	64QAM	36	0	16.33	16.46	16.14			
15	64QAM	36	20	16.36	16.58	16.17	18	0	
15	64QAM	36	39	16.42	16.49	16.37			
15	64QAM	75	0	16.35	16.41	16.08			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	16.37	16.52	16.12	18	0	
10	QPSK	1	25	16.35	16.46	16.06			
10	QPSK	1	49	16.25	16.47	16.06			
10	QPSK	25	0	16.39	16.57	16.17	18	0	
10	QPSK	25	12	16.42	16.48	16.36			
10	QPSK	25	25	16.25	16.47	16.11			
10	QPSK	50	0	16.42	16.59	16.36	18	0	
10	16QAM	1	0	16.36	16.56	16.15			
10	16QAM	1	25	16.35	16.52	16.12			
10	16QAM	1	49	16.38	16.54	16.11	18	0	
10	16QAM	25	0	16.42	16.55	16.06			
10	16QAM	25	12	16.29	16.48	16.07			
10	16QAM	25	25	16.47	16.51	16.09	18	0	
10	16QAM	50	0	16.39	16.47	16.09			
10	64QAM	1	0	16.25	16.55	16.11			
10	64QAM	1	25	16.46	16.56	16.18	18	0	
10	64QAM	1	49	16.41	16.54	16.09			
10	64QAM	25	0	16.25	16.55	16.08			
10	64QAM	25	12	16.48	16.50	16.12	18	0	
10	64QAM	25	25	16.42	16.51	16.12			
10	64QAM	50	0	16.25	16.46	16.09			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	16.47	16.49	16.35	18	0	
5	QPSK	1	12	16.43	16.55	16.32			
5	QPSK	1	24	16.36	16.53	16.38			
5	QPSK	12	0	16.48	16.56	16.36	18	0	
5	QPSK	12	7	16.39	16.49	16.36			
5	QPSK	12	13	16.32	16.45	16.07			
5	QPSK	25	0	16.43	16.51	16.09	18	0	
5	16QAM	1	0	16.37	16.50	16.12			
5	16QAM	1	12	16.34	16.48	16.11			
5	16QAM	1	24	16.47	16.55	16.15	18	0	
5	16QAM	12	0	16.42	16.46	16.14			
5	16QAM	12	7	16.23	16.48	16.14			
5	16QAM	12	13	16.43	16.50	16.17	18	0	
5	16QAM	25	0	16.42	16.54	16.33			
5	64QAM	1	0	16.29	16.44	16.39			
5	64QAM	1	12	16.35	16.59	16.13	18	0	
5	64QAM	1	24	16.38	16.56	16.11			
5	64QAM	12	0	16.36	16.53	16.13			
5	64QAM	12	7	16.42	16.54	16.09	18	0	
5	64QAM	12	13	16.30	16.44	16.06			
5	64QAM	25	0	16.29	16.46	16.11			

Band 30 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27650	27710	27770			
Frequency (MHz)				2310					
10	QPSK	1	0		18.64		20	0	
10	QPSK	1	25		18.31				
10	QPSK	1	49		18.29				
10	QPSK	25	0		18.52		20	0	
10	QPSK	25	12		18.47				
10	QPSK	25	25		18.31				
10	QPSK	50	0		18.43		20	0	
10	16QAM	1	0		18.44				
10	16QAM	1	25		18.37				
10	16QAM	1	49		18.52		20	0	
10	16QAM	25	0		18.51				
10	16QAM	25	12		18.36				
10	16QAM	25	25		18.38		20	0	
10	16QAM	50	0		18.39				
10	64QAM	1	0		18.55				
10	64QAM	1	25		18.59		20	0	
10	64QAM	1	49		18.52				
10	64QAM	25	0		18.49				
10	64QAM	25	12		18.44		20	0	
10	64QAM	25	25		18.42				
10	64QAM	50	0		18.42				
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	18.15	18.09	18.16	20	0	
5	QPSK	1	12	18.16	18.07	18.08			
5	QPSK	1	24	18.12	18.08	18.09			
5	QPSK	12	0	18.27	18.30	18.29	20	0	
5	QPSK	12	7	18.27	18.32	18.30			
5	QPSK	12	13	18.06	18.10	18.15			
5	QPSK	25	0	18.21	18.22	18.22	20	0	
5	16QAM	1	0	18.20	18.23	18.23			
5	16QAM	1	12	18.21	18.19	18.13			
5	16QAM	1	24	18.29	18.31	18.36	20	0	
5	16QAM	12	0	18.33	18.34	18.27			
5	16QAM	12	7	18.19	18.13	18.16			
5	16QAM	12	13	18.17	18.13	18.19	20	0	
5	16QAM	25	0	18.19	18.16	18.18			
5	64QAM	1	0	18.46	18.49	18.45			
5	64QAM	1	12	18.44	18.37	18.37	20	0	
5	64QAM	1	24	18.27	18.33	18.36			
5	64QAM	12	0	18.25	18.24	18.26			
5	64QAM	12	7	18.21	18.27	18.26	20	0	
5	64QAM	12	13	18.20	18.23	18.20			
5	64QAM	25	0	18.24	18.25	18.26			



Band 41 Ant2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	14.67	14.92	14.93	14.64	14.59	15.5	0
20	QPSK	1	49	14.56	14.83	14.83	14.71	14.58		
20	QPSK	5	99	14.61	14.87	14.90	14.53	14.52	15.5	0
20	QPSK	50	0	14.66	14.81	14.91	14.72	14.62		
20	QPSK	50	24	14.57	14.82	14.72	14.84	14.57	15.5	0
20	QPSK	50	50	14.53	14.74	14.79	14.67	14.61		
20	QPSK	100	0	14.69	14.75	14.86	14.66	14.60	15.5	0
20	16QAM	1	0	14.57	14.79	14.79	14.78	14.43		
20	16QAM	1	49	14.48	14.71	14.79	14.61	14.47	15.5	0
20	16QAM	1	99	14.51	14.59	14.74	14.48	14.38		
20	16QAM	50	0	14.73	14.85	14.87	14.77	14.51	15.5	0
20	16QAM	50	24	14.47	14.83	14.82	14.67	14.56		
20	16QAM	50	50	14.49	14.70	14.81	14.59	14.55	15.5	0
20	16QAM	100	0	14.51	14.79	14.91	14.64	14.48		
20	16QAM	1	0	14.18	14.22	14.37	14.23	14.00	15.5	0
20	64QAM	1	49	14.09	14.20	14.23	14.08	14.08		
20	64QAM	1	99	14.02	14.04	14.22	13.99	14.04	15.5	0
20	64QAM	50	0	14.63	14.72	14.74	14.62	14.49		
20	64QAM	50	24	14.54	14.77	14.78	14.84	14.50	15.5	0
20	64QAM	50	50	14.60	14.66	14.69	14.44	14.49		
20	64QAM	100	0	14.76	14.85	14.86	14.64	14.53		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	14.59	14.89	14.80	14.52	14.56	22.5	0
15	QPSK	1	37	14.44	14.79	14.79	14.67	14.44		
15	QPSK	1	74	14.51	14.59	14.77	14.40	14.45	22.5	0
15	QPSK	36	0	14.56	14.70	14.87	14.58	14.49		
15	QPSK	36	20	14.47	14.74	14.80	14.57	14.44	22.5	0
15	QPSK	36	39	14.40	14.67	14.75	14.53	14.50		
15	QPSK	75	0	14.55	14.63	14.80	14.56	14.45	22.5	0
15	16QAM	1	0	14.52	14.65	14.72	14.71	14.34		
15	16QAM	1	37	14.43	14.65	14.74	14.47	14.38	22.5	0
15	16QAM	1	74	14.45	14.51	14.69	14.40	14.31		
15	16QAM	36	0	14.60	14.73	14.81	14.64	14.45	22.5	0
15	16QAM	36	20	14.37	14.78	14.79	14.54	14.51		
15	16QAM	36	39	14.41	14.67	14.72	14.47	14.43	22.5	0
15	16QAM	75	0	14.43	14.71	14.77	14.51	14.38		
15	64QAM	1	0	14.14	14.19	14.30	14.11	13.85	22.5	0
15	64QAM	1	37	14.00	14.14	14.20	13.99	14.01		
15	64QAM	1	74	13.90	13.89	14.07	13.94	13.86	22.5	0
15	64QAM	36	0	14.57	14.61	14.67	14.56	14.43		
15	64QAM	36	20	14.42	14.70	14.68	14.77	14.41	22.5	0
15	64QAM	36	39	14.51	14.52	14.57	14.32	14.45		
15	64QAM	75	0	14.68	14.74	14.82	14.57	14.46		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	14.54	14.80	14.84	14.58	14.56	15.5	0
10	QPSK	1	25	14.43	14.72	14.79	14.61	14.45		
10	QPSK	1	49	14.52	14.58	14.80	14.41	14.38	15.5	0
10	QPSK	25	0	14.55	14.67	14.76	14.65	14.56		
10	QPSK	25	12	14.54	14.75	14.58	14.75	14.47	15.5	0
10	QPSK	25	25	14.39	14.67	14.72	14.59	14.51		
10	QPSK	50	0	14.59	14.71	14.76	14.61	14.53	15.5	0
10	16QAM	1	0	14.53	14.68	14.73	14.63	14.31		
10	16QAM	1	25	14.43	14.66	14.72	14.48	14.42	15.5	0
10	16QAM	1	49	14.39	14.49	14.62	14.35	14.29		
10	16QAM	25	0	14.66	14.79	14.77	14.65	14.46	15.5	0
10	16QAM	25	12	14.38	14.78	14.73	14.58	14.48		
10	16QAM	25	25	14.45	14.66	14.76	14.46	14.48	15.5	0
10	16QAM	50	0	14.47	14.74	14.86	14.61	14.54		
10	64QAM	1	0	14.14	14.12	14.28	14.11	13.94	15.5	0
10	64QAM	1	25	13.97	14.12	14.15	14.04	13.98		
10	64QAM	1	49	13.96	13.97	14.11	13.96	13.93	15.5	0
10	64QAM	25	0	14.51	14.66	14.81	14.54	14.43		
10	64QAM	25	12	14.47	14.74	14.74	14.78	14.46	15.5	0
10	64QAM	25	25	14.54	14.57	14.61	14.30	14.43		
10	64QAM	50	0	14.73	14.73	14.74	14.60	14.41		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	14.61	14.88	14.84	14.55	14.47	15.5	0
5	QPSK	1	12	14.44	14.76	14.79	14.60	14.47		
5	QPSK	1	24	14.50	14.63	14.84	14.39	14.49	15.5	0
5	QPSK	12	0	14.56	14.76	14.77	14.67	14.49		
5	QPSK	12	7	14.44	14.78	14.66	14.75	14.53	15.5	0
5	QPSK	12	13	14.48	14.64	14.75	14.61	14.52		
5	QPSK	25	0	14.55	14.66	14.81	14.61	14.53	15.5	0
5	16QAM	1	0	14.49	14.74	14.68	14.72	14.38		
5	16QAM	1	12	14.34	14.65	14.65	14.53	14.42	15.5	0
5	16QAM	1	24	14.47	14.51	14.70	14.41	14.27		
5	16QAM	12	0	14.69	14.75	14.84	14.64	14.42	15.5	0
5	16QAM	12	7	14.38	14.78	14.75	14.54	14.47		
5	16QAM	12	13	14.42	14.57	14.73	14.46	14.49	15.5	0
5	16QAM	25	0	14.42	14.70	14.87	14.51	14.44		
5	64QAM	1	0	14.13	14.14	14.27	14.08	13.93	15.5	0
5	64QAM	1	12	14.00	14.10	14.08	13.96	13.95		
5	64QAM	1	24	13.97	13.95	14.08	13.90	13.92	15.5	0
5	64QAM	12	0	14.56	14.65	14.68	14.50	14.35		
5	64QAM	12	7	14.49	14.67	14.74	14.75	14.40	15.5	0
5	64QAM	12	13	14.46	14.54	14.61	14.21	14.39		
5	64QAM	25	0	14.64	14.76	14.74	14.50	14.46		

Band 41 HPUE Ant2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.81	17.90	17.95	17.83	17.79	18.5	0
20	QPSK	1	49	17.79	17.63	17.94	17.75	17.62		
20	QPSK	1	99	17.83	17.73	17.85	17.54	17.63	18.5	0
20	QPSK	50	0	17.70	17.73	17.74	17.67	17.66		
20	QPSK	50	24	17.43	17.60	17.67	17.44	17.50	18.5	0
20	QPSK	50	50	17.62	17.64	17.58	17.47	17.51		
20	QPSK	100	0	17.49	17.69	17.73	17.46	17.36	18.5	0
20	16QAM	1	0	17.55	17.62	17.63	17.45	17.57		
20	16QAM	1	49	17.61	17.69	17.63	17.40	17.49	18.5	0
20	16QAM	1	99	17.62	17.56	17.68	17.37	17.37		
20	16QAM	50	0	17.62	17.65	17.79	17.47	17.52	18.5	0
20	16QAM	50	24	17.49	17.56	17.53	17.47	17.46		
20	16QAM	50	50	17.47	17.78	17.69	17.42	17.43	18.5	0
20	16QAM	100	0	17.57	17.58	17.74	17.46	17.25		
20	64QAM	1	0	17.35	17.29	17.38	17.23	17.33	18.5	0
20	64QAM	1	49	17.26	17.26	17.47	17.16	17.19		
20	64QAM	1	99	17.37	17.45	17.47	17.21	17.17	18.5	0
20	64QAM	50	0	17.73	17.80	17.88	17.61	17.63		
20	64QAM	50	24	17.64	17.73	17.75	17.50	17.63	18.5	0
20	64QAM	50	50	17.86	17.74	17.85	17.69	17.55		
20	64QAM	100	0	17.75	17.84	17.80	17.54			



Band 2 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 18700	Power Middle Ch./Freq. 18900	Power High Ch./Freq. 19100	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	13.40	13.50	13.50			
20	QPSK	1	49	13.61	13.65	13.54	14.5	0	
20	QPSK	1	99	13.49	13.61	13.51			
20	QPSK	50	0	13.54	13.67	13.58			
20	QPSK	50	24	13.52	13.63	13.48	14.5	0	
20	QPSK	50	50	13.45	13.59	13.43			
20	QPSK	100	0	13.52	13.62	13.52			
20	16QAM	1	0	13.49	13.58	13.43			
20	16QAM	1	49	13.47	13.53	13.45	14.5	0	
20	16QAM	1	99	13.39	13.51	13.42			
20	16QAM	50	0	13.33	13.49	13.38			
20	16QAM	50	24	13.50	13.53	13.39	14.5	0	
20	16QAM	50	50	13.33	13.50	13.38			
20	16QAM	100	0	13.38	13.46	13.35			
20	64QAM	1	0	13.43	13.49	13.41			
20	64QAM	1	49	13.29	13.42	13.37	14.5	0	
20	64QAM	1	99	13.37	13.47	13.43			
20	64QAM	50	0	13.30	13.41	13.31			
20	64QAM	50	24	13.30	13.38	13.21	14.5	0	
20	64QAM	50	50	13.28	13.35	13.29			
20	64QAM	100	0	13.17	13.30	13.19			
Channel									
Frequency (MHz)									
15	QPSK	1	0	13.54	13.56	13.50			
15	QPSK	1	37	13.45	13.52	13.40	14.5	0	
15	QPSK	1	74	13.41	13.51	13.42			
15	QPSK	38	0	13.38	13.58	13.43	14.5	0	
15	QPSK	38	20	13.48	13.60	13.41			
15	QPSK	38	39	13.35	13.51	13.38			
15	QPSK	75	0	13.42	13.57	13.40			
15	16QAM	1	0	13.35	13.45	13.31			
15	16QAM	1	37	13.28	13.41	13.43	14.5	0	
15	16QAM	1	74	13.30	13.42	13.29			
15	16QAM	36	0	13.16	13.38	13.31	14.5	0	
15	16QAM	36	20	13.35	13.48	13.38			
15	16QAM	36	39	13.30	13.39	13.24			
15	16QAM	75	0	13.34	13.31	13.25			
15	64QAM	1	0	13.38	13.41	13.33			
15	64QAM	1	37	13.15	13.30	13.28	14.5	0	
15	64QAM	1	74	13.29	13.42	13.29			
15	64QAM	36	0	13.23	13.28	13.17	14.5	0	
15	64QAM	36	20	13.17	13.32	13.18			
15	64QAM	36	39	13.20	13.25	13.21			
15	64QAM	75	0	13.40	13.30	13.15			
Channel									
Frequency (MHz)									
10	QPSK	1	0	13.49	13.62	13.51			
10	QPSK	1	25	13.52	13.51	13.38	14.5	0	
10	QPSK	1	49	13.40	13.49	13.44			
10	QPSK	25	0	13.48	13.56	13.45			
10	QPSK	25	12	13.43	13.58	13.33	14.5	0	
10	QPSK	25	25	13.40	13.52	13.27			
10	QPSK	50	0	13.45	13.46	13.36			
10	16QAM	1	0	13.44	13.41	13.34			
10	16QAM	1	25	13.34	13.46	13.38	14.5	0	
10	16QAM	1	49	13.29	13.37	13.39			
10	16QAM	25	0	13.28	13.34	13.23			
10	16QAM	25	12	13.43	13.44	13.25	14.5	0	
10	16QAM	25	25	13.29	13.43	13.31			
10	16QAM	50	0	13.26	13.37	13.21			
10	64QAM	1	0	13.28	13.41	13.35			
10	64QAM	1	25	13.13	13.32	13.25	14.5	0	
10	64QAM	1	49	13.26	13.36	13.38			
10	64QAM	25	0	13.31	13.28	13.18			
10	64QAM	25	12	13.14	13.26	13.10	14.5	0	
10	64QAM	25	25	13.11	13.26	13.25			
10	64QAM	50	0	13.03	13.14	13.11			
Channel									
Frequency (MHz)									
5	QPSK	1	0	13.52	13.60	13.57			
5	QPSK	1	12	13.51	13.50	13.45	14.5	0	
5	QPSK	1	24	13.42	13.46	13.42			
5	QPSK	12	0	13.39	13.56	13.51			
5	QPSK	12	7	13.45	13.58	13.32	14.5	0	
5	QPSK	12	13	13.34	13.54	13.36			
5	QPSK	25	0	13.42	13.57	13.40			
5	16QAM	1	0	13.37	13.42	13.38			
5	16QAM	1	12	13.26	13.45	13.35	14.5	0	
5	16QAM	1	24	13.28	13.35	13.27			
5	16QAM	12	0	13.32	13.41	13.21	14.5	0	
5	16QAM	12	7	13.40	13.39	13.33			
5	16QAM	12	13	13.17	13.44	13.34			
5	16QAM	25	0	13.22	13.33	13.20			
5	64QAM	1	0	13.31	13.37	13.35			
5	64QAM	1	12	13.23	13.30	13.27	14.5	0	
5	64QAM	1	24	13.30	13.32	13.30			
5	64QAM	12	0	13.31	13.30	13.21			
5	64QAM	12	7	13.32	13.31	13.22	14.5	0	
5	64QAM	12	13	13.12	13.21	13.13			
5	64QAM	25	0	13.08	13.21	13.13			
Channel									
Frequency (MHz)									
3	QPSK	1	0	13.49	13.57	13.51			
3	QPSK	1	8	13.53	13.51	13.42	14.5	0	
3	QPSK	1	14	13.46	13.53	13.47			
3	QPSK	8	0	13.46	13.54	13.55			
3	QPSK	8	4	13.44	13.49	13.36	14.5	0	
3	QPSK	8	7	13.34	13.36	13.38			
3	QPSK	15	0	13.47	13.46	13.45			
3	16QAM	1	0	13.44	13.51	13.31			
3	16QAM	1	8	13.29	13.50	13.40	14.5	0	
3	16QAM	1	14	13.25	13.39	13.33			
3	16QAM	8	0	13.18	13.34	13.30			
3	16QAM	8	4	13.38	13.40	13.33	14.5	0	
3	16QAM	8	7	13.20	13.46	13.30			
3	16QAM	15	0	13.31	13.31	13.22			
3	64QAM	1	0	13.26	13.36	13.32			
3	64QAM	1	8	13.12	13.36	13.30	14.5	0	
3	64QAM	1	14	13.25	13.34	13.29			
3	64QAM	8	0	13.24	13.37	13.22			
3	64QAM	8	4	13.21	13.31	13.04	14.5	0	
3	64QAM	8	7	13.24	13.23	13.17			
3	64QAM	15	0	13.11	13.24	13.14			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	13.40	13.56	13.56			
1.4	QPSK	1	3	13.40	13.58	13.49	14.5	0	
1.4	QPSK	1	5	13.41	13.58	13.48			
1.4	QPSK	3	0	13.39	13.52	13.49			
1.4	QPSK	3	1	13.40	13.50	13.44			
1.4	QPSK	3	3	13.33	13.50	13.33	14.5	0	
1.4	QPSK	6	0	13.49	13.56	13.48			
1.4	16QAM	1	0	13.43	13.42	13.27			
1.4	16QAM	1	3	13.30	13.37	13.28	14.5	0	
1.4	16QAM	1	5	13.35	13.37	13.29			
1.4	16QAM	3	0	13.24	13.41	13.25			
1.4	16QAM	3	1	13.42	13.47	13.31			
1.4	16QAM	3	3	13.17	13.34	13.33	14.5	0	
1.4	16QAM	6	0	13.28	13.38	13.30			
1.4	64QAM	1	0	13.39	13.44	13.36			
1.4	64QAM	1	3	13.13	13.32	13.32	14.5	0	
1.4	64QAM	1	5	13.30	13.37	13.28			
1.4	64QAM	3	0	13.28	13.37	13.23			
1.4	64QAM	3	1	13.21	13.21	13.12			
1.4	64QAM	3	3	13.22	13.26	13.17			
1.4	64QAM	6	0	13.02	13.19	13.15	14.5	0	

Band 4 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 20050	Power Middle Ch./Freq. 20175	Power High Ch./Freq. 20300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	14.16	14.38	14.31			
20	QPSK	1	49	14.10	14.03	14.09	15.5	0	
20	QPSK	1	99	13.87	14.17	14.04			
20	QPSK	50	0	14.21	14.33	14.25			
20	QPSK	50	24	14.04	14.20	14.13	15.5	0	



Band 7 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	7.64	7.67	7.60		
20	QPSK	1	49	7.49	7.61	7.55	8	0
20	QPSK	1	99	7.56	7.51	7.43		
20	QPSK	50	0	7.60	7.61	7.48		
20	QPSK	50	24	7.52	7.46	7.57	8	0
20	QPSK	50	50	7.51	7.57	7.49		
20	QPSK	100	0	7.41	7.56	7.55		
20	16QAM	1	0	7.41	7.58	7.43		
20	16QAM	1	49	7.48	7.52	7.36	8	0
20	16QAM	1	99	7.54	7.38	7.50		
20	16QAM	50	0	7.37	7.42	7.44		
20	16QAM	50	24	7.42	7.37	7.37	8	0
20	16QAM	50	50	7.54	7.57	7.45		
20	16QAM	100	0	7.52	7.56	7.55		
20	16QAM	1	0	7.47	7.49	7.51		
20	64QAM	1	49	7.38	7.54	7.42	8	0
20	64QAM	1	99	7.44	7.44	7.40		
20	64QAM	50	0	7.47	7.46	7.44		
20	64QAM	50	24	7.37	7.42	7.43	8	0
20	64QAM	50	50	7.38	7.44	7.44		
20	64QAM	100	0	7.39	7.47	7.39		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	7.55	7.61	7.50		
15	QPSK	1	37	7.33	7.50	7.51	8	0
15	QPSK	1	74	7.41	7.39	7.36		
15	QPSK	36	0	7.55	7.54	7.41		
15	QPSK	36	20	7.44	7.35	7.49	8	0
15	QPSK	36	39	7.40	7.44	7.40		
15	QPSK	75	0	7.33	7.49	7.51		
15	16QAM	1	0	7.36	7.42	7.32		
15	16QAM	1	37	7.35	7.39	7.26	8	0
15	16QAM	1	74	7.42	7.29	7.41		
15	16QAM	36	0	7.24	7.31	7.37		
15	16QAM	36	20	7.31	7.28	7.28	8	0
15	16QAM	36	39	7.39	7.47	7.35		
15	16QAM	75	0	7.44	7.50	7.44		
15	64QAM	1	0	7.33	7.44	7.35		
15	64QAM	1	37	7.26	7.41	7.26	8	0
15	64QAM	1	74	7.39	7.29	7.31		
15	64QAM	36	0	7.34	7.31	7.37		
15	64QAM	36	20	7.23	7.32	7.29	8	0
15	64QAM	36	39	7.28	7.30	7.29		
15	64QAM	75	0	7.34	7.41	7.32		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	7.55	7.60	7.54		
10	QPSK	1	25	7.39	7.53	7.42	8	0
10	QPSK	1	49	7.47	7.39	7.31		
10	QPSK	25	0	7.44	7.56	7.32		
10	QPSK	25	12	7.41	7.39	7.52	8	0
10	QPSK	25	25	7.35	7.53	7.41		
10	QPSK	50	0	7.34	7.41	7.46		
10	16QAM	1	0	7.29	7.51	7.27	8	0
10	16QAM	1	25	7.37	7.44	7.23		
10	16QAM	1	49	7.40	7.26	7.45		
10	16QAM	25	0	7.29	7.33	7.28	8	0
10	16QAM	25	12	7.27	7.23	7.26		
10	16QAM	25	25	7.46	7.40	7.29		
10	16QAM	50	0	7.46	7.50	7.50		
10	64QAM	1	0	7.43	7.44	7.43	8	0
10	64QAM	1	25	7.25	7.39	7.34		
10	64QAM	1	49	7.33	7.28	7.36		
10	64QAM	25	0	7.34	7.39	7.29	8	0
10	64QAM	25	12	7.25	7.31	7.28		
10	64QAM	25	25	7.22	7.31	7.37		
10	64QAM	50	0	7.33	7.36	7.24		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	7.52	7.51	7.48		
5	QPSK	1	12	7.42	7.54	7.47	8	0
5	QPSK	1	24	7.47	7.39	7.34		
5	QPSK	12	0	7.52	7.50	7.41		
5	QPSK	12	7	7.48	7.37	7.50	8	0
5	QPSK	12	13	7.43	7.47	7.34		
5	QPSK	25	0	7.32	7.51	7.44		
5	16QAM	1	0	7.34	7.51	7.34		
5	16QAM	1	12	7.34	7.46	7.30	8	0
5	16QAM	1	24	7.43	7.32	7.35		
5	16QAM	12	0	7.28	7.27	7.38	8	0
5	16QAM	12	7	7.30	7.24	7.33		
5	16QAM	12	13	7.40	7.48	7.30		
5	16QAM	25	0	7.44	7.44	7.48		
5	64QAM	1	0	7.38	7.42	7.44		
5	64QAM	1	12	7.32	7.45	7.34	8	0
5	64QAM	1	24	7.40	7.34	7.28		
5	64QAM	12	0	7.34	7.39	7.33		
5	64QAM	12	7	7.24	7.27	7.37	8	0
5	64QAM	12	13	7.30	7.38	7.35		
5	64QAM	25	0	7.24	7.42	7.34		

Band 12 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	19.98	20.04	20.03		
10	QPSK	1	25	19.89	20.03	19.98	20.5	0
10	QPSK	1	49	19.98	19.91	19.86		
10	QPSK	25	0	19.95	20.01	19.93		
10	QPSK	25	12	19.89	19.96	19.91	20.5	0
10	QPSK	25	25	19.89	19.97	19.94		
10	QPSK	50	0	19.81	19.90	19.83		
10	16QAM	1	0	19.83	19.88	19.80		
10	16QAM	1	25	19.81	19.85	19.78	20.5	0
10	16QAM	1	49	19.93	19.79	19.89		
10	16QAM	25	0	19.73	19.87	19.79		
10	16QAM	25	12	19.73	19.82	19.77	20.5	0
10	16QAM	25	25	19.85	19.95	19.80		
10	16QAM	50	0	19.87	19.94	19.88		
10	64QAM	1	0	19.89	19.83	19.83		
10	64QAM	1	25	19.72	19.89	19.81	20.5	0
10	64QAM	1	49	19.82	19.79	19.72		
10	64QAM	25	0	19.60	19.62	19.43		
10	64QAM	25	12	19.48	19.55	19.48	20	0.5
10	64QAM	25	25	19.53	19.51	19.53		
10	64QAM	50	0	19.53	19.58	19.44		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	19.92	19.95	19.97		
5	QPSK	1	12	19.79	19.91	19.90	20.5	0
5	QPSK	1	24	19.85	19.77	19.73		
5	QPSK	12	0	19.80	19.94	19.83		
5	QPSK	12	7	19.74	19.81	19.84	20.5	0
5	QPSK	12	13	19.81	19.83	19.88		
5	QPSK	25	0	19.69	19.77	19.69		
5	16QAM	1	0	19.70	19.77	19.70		
5	16QAM	1	12	19.68	19.80	19.69	20.5	0
5	16QAM	1	24	19.66	19.73	19.73		
5	16QAM	12	0	19.66	19.77	19.71		
5	16QAM	12	7	19.67	19.75	19.70	20.5	0
5	16QAM	12	13	19.70	19.89	19.71		
5	16QAM	25	0	19.91	19.84	19.84		
5	64QAM	1	0	19.78	19.68	19.78		
5	64QAM	1	12	19.65	19.85	19.77	20.5	0
5	64QAM	1	24	19.68	19.64	19.66		
5	64QAM	12	0	19.39	19.60	19.44		
5	64QAM	12	7	19.35	19.50	19.26	20	0.5
5	64QAM	12	13	19.38	19.43	19.33		
5	64QAM	25	0	19.24	19.46	19.37		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	19.82	20.00	19.98		
3	QPSK	1	8	19.78	19.88	19.84	20.5	0
3	QPSK	1	14	19.92	19.77	19.80		
3	QPSK	8	0	19.88	19.86	19.87		
3	QPSK	8	4	19.81	19.84	19.82	20.5	0
3	QPSK	8	7	19.73	19.81	19.83		
3	QPSK	15	0	19.75	19.74	19.68		
3	16QAM	1	0	19.78	19.82	19.73	20.5	0
3	16QAM	1	8	19.71	19.78	19.63	</	



Band 14 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23305	23330	23355			
Frequency (MHz)				793					
10	QPSK	1	0	20.28			21	0	
10	QPSK	1	25	20.24					
10	QPSK	1	49	20.19					
10	QPSK	25	0	20.24					
10	QPSK	25	12	20.21					
10	QPSK	25	25	20.12			21	0	
10	QPSK	50	0	20.19					
10	16QAM	1	0	20.13					
10	16QAM	1	25	20.11			21	0	
10	16QAM	1	49	20.00					
10	16QAM	25	0	20.06					
10	16QAM	25	12	20.16					
10	16QAM	25	25	20.10			21	0	
10	16QAM	50	0	20.15					
10	64QAM	1	0	20.09					
10	64QAM	1	25	20.02			21	0	
10	64QAM	1	49	20.14					
10	64QAM	25	0	19.27					
10	64QAM	25	12	19.25					
10	64QAM	25	25	19.17			20	1	
10	64QAM	50	0	19.30					
Channel				23305	23330	23355			
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	0	20.15	20.22	20.18	21	0	
5	QPSK	1	12	20.03	20.11	19.98			
5	QPSK	1	24	19.96	20.11	20.02			
5	QPSK	12	0	20.07	20.15	20.06			
5	QPSK	12	7	20.00	20.13	20.01			
5	QPSK	12	13	19.86	20.02	19.85	21	0	
5	QPSK	25	0	19.90	20.03	19.98			
5	16QAM	1	0	19.94	20.06	19.99			
5	16QAM	1	12	19.92	20.01	19.87	21	0	
5	16QAM	1	24	19.85	19.89	19.78			
5	16QAM	12	0	19.87	19.91	19.77			
5	16QAM	12	7	19.86	20.05	19.93			
5	16QAM	12	13	19.84	19.98	19.89	21	0	
5	16QAM	25	0	19.88	20.00	19.95			
5	64QAM	1	0	19.94	20.00	19.92			
5	64QAM	1	12	19.78	19.92	19.77	21	0	
5	64QAM	1	24	19.97	20.01	19.89			
5	64QAM	12	0	19.18	19.14	19.06			
5	64QAM	12	7	18.07	19.25	19.13			
5	64QAM	12	13	18.12	19.10	18.97	20	1	
5	64QAM	25	0	19.18	19.09	19.31			

Band 17 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				7100	710	711			
10	QPSK	1	0	19.90	19.97	19.93			
10	QPSK	1	25	19.80	19.95	19.87	20.5	0	
10	QPSK	1	49	19.91	19.75	19.73			
10	QPSK	25	0	19.84	19.95	19.88			
10	QPSK	25	12	19.79	19.86	19.79	20.5	0	
10	QPSK	25	25	19.76	19.91	19.83			
10	QPSK	50	0	19.69	19.81	19.70			
10	16QAM	1	0	19.77	19.80	19.71	20.5	0	
10	16QAM	1	25	19.66	19.77	19.68			
10	16QAM	1	49	19.79	19.67	19.76			
10	16QAM	25	0	19.65	19.82	19.68			
10	16QAM	25	12	19.57	19.67	19.67	20.5	0	
10	16QAM	25	25	19.80	19.83	19.72			
10	16QAM	50	0	19.87	19.85	19.79			
10	64QAM	1	0	19.76	19.74	19.76			
10	64QAM	1	25	19.68	19.77	19.76	20.5	0	
10	64QAM	1	49	19.72	19.73	19.39			
10	64QAM	25	0	19.67	19.63	19.53			
10	64QAM	25	12	19.59	19.56	19.55	20	0.5	
10	64QAM	25	25	19.63	19.69	19.67			
10	64QAM	50	0	19.61	19.65	19.59			
Channel				23755	23790	23825			
Frequency (MHz)				708.5	710	713.5			
5	QPSK	1	0	19.76	19.85	19.84			
5	QPSK	1	12	19.72	19.85	19.72	20.5	0	
5	QPSK	1	24	19.76	19.70	19.68			
5	QPSK	12	0	19.69	19.89	19.79			
5	QPSK	12	7	19.66	19.78	19.71			
5	QPSK	12	13	19.71	19.85	19.73	20.5	0	
5	QPSK	25	0	19.55	19.71	19.61			
5	16QAM	1	0	19.66	19.74	19.58			
5	16QAM	1	12	19.52	19.68	19.61	20.5	0	
5	16QAM	1	24	19.71	19.58	19.66			
5	16QAM	12	0	19.52	19.69	19.54			
5	16QAM	12	7	19.52	19.54	19.58			
5	16QAM	12	13	19.73	19.74	19.82	20.5	0	
5	16QAM	25	0	19.72	19.68	19.73			
5	64QAM	1	0	19.67	19.65	19.64			
5	64QAM	1	12	19.63	19.67	19.64	20.5	0	
5	64QAM	1	24	19.61	19.59	19.51			
5	64QAM	12	0	19.43	19.57	19.38			
5	64QAM	12	7	19.39	19.43	19.54			
5	64QAM	12	13	19.42	19.60	19.46	20	0.5	
5	64QAM	25	0	19.51	19.50	19.37			

Band 25 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26140	26340	26590			
Frequency (MHz)				1890	1891	1920			
20	QPSK	1	0	13.74	13.81	13.72			
20	QPSK	1	49	13.59	13.68	13.55	14.5	0	
20	QPSK	1	99	13.45	13.61	13.57			
20	QPSK	50	0	13.70	13.78	13.70			
20	QPSK	50	24	13.54	13.67	13.61	14.5	0	
20	QPSK	50	50	13.59	13.72	13.63			
20	QPSK	100	0	13.67	13.73	13.57			
20	16QAM	1	0	13.59	13.69	13.54			
20	16QAM	1	49	13.49	13.55	13.37	14.5	0	
20	16QAM	1	99	13.47	13.48	13.43			
20	16QAM	50	0	13.29	13.37	13.20			
20	16QAM	50	24	13.52	13.59	13.55	14.5	0	
20	16QAM	50	50	13.44	13.50	13.39			
20	16QAM	100	0	13.42	13.46	13.38			
20	64QAM	1	0	13.31	13.41	13.24			
20	64QAM	1	49	13.38	13.51	13.40	14.5	0	
20	64QAM	1	99	13.35	13.40	13.27			
20	64QAM	50	0	13.34	13.42	13.29			
20	64QAM	50	24	13.34	13.45	13.42	14.5	0	
20	64QAM	50	50	13.30	13.36	13.29			
20	64QAM	100	0	13.15	13.25	13.14			
Channel				26115	26340	26675			
Frequency (MHz)				1857.5	1880	1907.5			
15	QPSK	1	0	13.63	13.76	13.61			
15	QPSK	1	37	13.51	13.63	13.51	14.5	0	
15	QPSK	1	74	13.37	13.52	13.50			
15	QPSK	36	0	13.46	13.71	13.56			
15	QPSK	36	20	13.44	13.62	13.56	14.5	0	
15	QPSK	36	39	13.45	13.64	13.59			
15	QPSK	75	0	13.50	13.67	13.48			
15	16QAM	1	0	13.42	13.62	13.46			
15	16QAM	1	37	13.41	13.43	13.27	14.5	0	
15	16QAM	1	74	13.20	13.35	13.31			
15	16QAM	36	0	13.14	13.29	13.17			
15	16QAM	36	20	13.45	13.53	13.35	14.5	0	
15	16QAM	36	39	13.40	13.35	13.20			
15	16QAM	75	0	13.37	13.39	13.33			
15	64QAM	1	0	13.23	13.25	13.10			
15	64QAM	1	37	13.25	13.43	13.27	14.5	0	
15	64QAM	1	74	13.25	13.25	13.20			
15	64QAM	36	0	13.28	13.27	13.19			
15	64QAM	36	20	13.18	13.36	13.37	14.5	0	
15	64QAM	36	39	13.32	13.32	13.21			
15	64QAM	75	0	13.09	13.14	13.01			
Channel				26090	26340	26640			



Band 26 Ant4 for FCC								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				26765	26865	26965		
15	QPSK	1	0	19.79	19.95	19.72	20.5	0
15	QPSK	1	37	19.60	19.78	19.69		
15	QPSK	1	74	19.66	19.65	19.58		
15	QPSK	36	0	19.72	19.92	19.68		
15	QPSK	36	20	19.64	19.75	19.67	20.5	0
15	QPSK	36	39	19.71	19.83	19.69		
15	QPSK	75	0	19.58	19.86	19.64		
15	16QAM	1	0	19.41	19.56	19.62	20.5	0
15	16QAM	1	37	19.62	19.59	19.44		
15	16QAM	1	74	19.40	19.75	19.58		
15	16QAM	36	0	19.62	19.70	19.41		
15	16QAM	36	20	19.52	19.62	19.55	20.5	0
15	16QAM	36	39	19.71	19.65	19.57		
15	16QAM	75	0	19.67	19.77	19.55		
15	64QAM	1	0	19.63	19.66	19.53	20.5	0
15	64QAM	1	37	19.55	19.67	19.56		
15	64QAM	1	74	19.58	19.43	19.41		
15	64QAM	36	0	19.23	19.27	19.21	20	0.5
15	64QAM	36	20	19.13	19.14	19.18		
15	64QAM	36	39	19.22	19.24	19.12		
15	64QAM	75	0	19.18	19.29	19.12		
Channel				26740	26865	26990		
Frequency (MHz)				26740	26865	26990		
10	QPSK	1	0	19.66	19.86	19.57	20.5	0
10	QPSK	1	25	19.47	19.65	19.60		
10	QPSK	1	49	19.55	19.60	19.52		
10	QPSK	25	0	19.67	19.84	19.62	20.5	0
10	QPSK	25	12	19.53	19.60	19.61		
10	QPSK	25	25	19.66	19.68	19.58		
10	QPSK	50	0	19.43	19.80	19.57		
10	16QAM	1	0	19.31	19.50	19.51	20.5	0
10	16QAM	1	25	19.55	19.45	19.34		
10	16QAM	1	49	19.32	19.66	19.54		
10	16QAM	25	0	19.51	19.56	19.33	20.5	0
10	16QAM	25	12	19.46	19.52	19.41		
10	16QAM	25	25	19.55	19.56	19.47		
10	16QAM	50	0	19.62	19.65	19.46	20.5	0
10	64QAM	1	0	19.49	19.61	19.38		
10	64QAM	1	25	19.45	19.61	19.50	20.5	0
10	64QAM	1	49	19.42	19.36	19.28		
10	64QAM	25	0	19.21	19.17	19.00	20	0.5
10	64QAM	25	12	19.08	19.13	19.12		
10	64QAM	25	25	19.06	19.21	19.25		
10	64QAM	50	0	19.12	19.16	19.13		
Channel				26715	26865	27015		
Frequency (MHz)				26715	26865	27015		
5	QPSK	1	0	19.64	19.82	19.57	20.5	0
5	QPSK	1	12	19.56	19.74	19.64		
5	QPSK	1	24	19.59	19.59	19.53		
5	QPSK	12	0	19.67	19.86	19.61	20.5	0
5	QPSK	12	7	19.58	19.71	19.56		
5	QPSK	12	13	19.62	19.75	19.58		
5	QPSK	25	0	19.33	19.71	19.59	20.5	0
5	16QAM	1	0	19.28	19.41	19.57		
5	16QAM	1	12	19.58	19.44	19.29	20.5	0
5	16QAM	1	24	19.35	19.65	19.54		
5	16QAM	12	0	19.52	19.56	19.28	20.5	0
5	16QAM	12	7	19.44	19.51	19.46		
5	16QAM	12	13	19.58	19.52	19.51		
5	16QAM	25	0	19.57	19.63	19.40	20.5	0
5	64QAM	1	0	19.49	19.56	19.48		
5	64QAM	1	12	19.42	19.55	19.43	20.5	0
5	64QAM	1	24	19.50	19.39	19.31		
5	64QAM	12	0	19.02	19.21	19.21	20	0.5
5	64QAM	12	7	18.96	19.05	19.02		
5	64QAM	12	13	19.07	19.10	19.07		
5	64QAM	25	0	19.03	19.08	18.90		
Channel				26705	26865	27025		
Frequency (MHz)				26705	26865	27025		
3	QPSK	1	0	19.63	19.79	19.58	20.5	0
3	QPSK	1	8	19.55	19.68	19.56		
3	QPSK	1	14	19.54	19.59	19.45		
3	QPSK	8	0	19.59	19.83	19.58	20.5	0
3	QPSK	8	4	19.56	19.67	19.52		
3	QPSK	8	7	19.59	19.69	19.54		
3	QPSK	15	0	19.53	19.74	19.56	20.5	0
3	16QAM	1	0	19.33	19.47	19.48		
3	16QAM	1	8	19.50	19.43	19.39	20.5	0
3	16QAM	1	14	19.27	19.70	19.52		
3	16QAM	8	0	19.57	19.60	19.28	20.5	0
3	16QAM	8	4	19.38	19.52	19.44		
3	16QAM	8	7	19.59	19.49	19.52		
3	16QAM	15	0	19.58	19.66	19.48	20.5	0
3	64QAM	1	0	19.57	19.56	19.37		
3	64QAM	1	8	19.50	19.56	19.41	20.5	0
3	64QAM	1	14	19.47	19.33	19.26		
3	64QAM	8	0	19.05	19.25	19.04	20	0.5
3	64QAM	8	4	19.12	19.00	19.06		
3	64QAM	8	7	19.05	19.07	19.11		
3	64QAM	15	0	19.00	19.30	19.22		
Channel				26697	26865	27033		
Frequency (MHz)				26697	26865	27033		
1.4	QPSK	1	0	19.68	19.88	19.68	20.5	0
1.4	QPSK	1	3	19.46	19.68	19.58		
1.4	QPSK	1	5	19.53	19.52	19.50		
1.4	QPSK	3	0	19.63	19.77	19.56	20.5	0
1.4	QPSK	3	1	19.54	19.60	19.57		
1.4	QPSK	3	3	19.57	19.77	19.55		
1.4	QPSK	6	0	19.45	19.75	19.52	20.5	0
1.4	16QAM	1	0	19.32	19.46	19.50		
1.4	16QAM	1	3	19.49	19.53	19.37	20.5	0
1.4	16QAM	1	5	19.34	19.66	19.52		
1.4	16QAM	3	0	19.51	19.55	19.37		
1.4	16QAM	3	1	19.44	19.47	19.50		
1.4	16QAM	3	3	19.67	19.49	19.53	20.5	0
1.4	16QAM	6	0	19.55	19.67	19.41		
1.4	64QAM	1	0	19.57	19.52	19.45	20.5	0
1.4	64QAM	1	3	19.42	19.57	19.51		
1.4	64QAM	1	5	19.46	19.31	19.28	20.5	0
1.4	64QAM	3	0	19.53	19.59	19.26		
1.4	64QAM	3	1	19.44	19.47	19.40		
1.4	64QAM	3	3	19.58	19.58	19.41	20	0.5
1.4	64QAM	6	0	18.94	18.13	19.09		

Band 30 Ant4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27685	27710	27735		
Frequency (MHz)				27685	27710	27735		
10	QPSK	1	0	10.21	10.32	10.28	11.5	0
10	QPSK	1	25	10.09	10.03	10.13		
10	QPSK	1	49	10.07	10.15	9.99		
10	QPSK	25	0	10.17	10.28	10.25	11.5	0
10	QPSK	25	12	10.04	10.11	10.12		
10	QPSK	25	25	10.01	10.31	10.26		
10	QPSK	50	0	10.06	10.32	10.00		
10	16QAM	1	0	10.04	10.12	10.12	11.5	0
10	16QAM	1	12	10.28	10.29	10.12		
10	16QAM	1	24	10.18	10.36	10.30		
10	16QAM	12	0	10.07	10.19	10.01	11.5	0
10	16QAM	12	7	10.16	10.13	10.10		
10	16QAM	12	13	10.35	10.21	10.08		
10	16QAM	25	0	10.33	10.21	10.16	11.5	0
10	64QAM	1	0	10.11	10.29	10.07		
10	64QAM	1	12	10.12	10.21	10.08	11.5	0
10	64QAM	1	24	10.07	10.19	9.97		
10	64QAM	12	0	10.13	10.25	9.99	11.5	0
10	64QAM	12	7	10.10	10.19	10.30		
10	64QAM	12	13	10.02	10.23	10.12		
10	64QAM	25	0	10.06	10.01	10.14		
Channel				27685	27710	27735		
Frequency (MHz)				27685	27710	27735		



Band 66 Ant4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	14.32	14.32	14.43		
20	QPSK	1	49	14.22	14.13	14.16	15.5	0
20	QPSK	1	99	14.11	14.29	14.12		
20	QPSK	50	0	14.27	14.45	14.37		
20	QPSK	50	24	14.12	14.27	14.26	15.5	0
20	QPSK	50	50	14.15	14.42	14.31		
20	QPSK	100	0	14.25	14.39	14.11		
20	16QAM	1	0	14.13	14.25	14.26		
20	16QAM	1	49	14.26	14.36	14.13	15.5	0
20	16QAM	1	99	14.26	14.39	14.32		
20	16QAM	50	0	14.17	14.25	14.12		
20	16QAM	50	24	14.22	14.29	14.16	15.5	0
20	16QAM	50	50	14.42	14.33	14.14		
20	16QAM	100	0	14.40	14.33	14.28		
20	64QAM	1	0	14.19	14.41	14.17		
20	64QAM	1	49	14.27	14.31	14.25	15.5	0
20	64QAM	1	99	14.21	14.22	14.11		
20	64QAM	50	0	14.21	14.43	14.15		
20	64QAM	50	24	14.18	14.25	14.33	15.5	0
20	64QAM	50	50	14.16	14.34	14.26		
20	64QAM	100	0	14.17	14.17	14.21		
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	14.26	14.37	14.28		
15	QPSK	1	37	14.08	14.00	14.09	15.5	0
15	QPSK	1	74	14.04	14.18	13.96		
15	QPSK	36	0	14.21	14.32	14.24		
15	QPSK	36	20	14.02	14.14	14.14	15.5	0
15	QPSK	36	39	14.04	14.36	14.26		
15	QPSK	75	0	14.10	14.32	14.04		
15	16QAM	1	0	14.04	14.12	14.16		
15	16QAM	1	37	14.27	14.32	14.08	15.5	0
15	16QAM	1	74	14.19	14.35	14.26		
15	16QAM	36	0	14.05	14.15	14.04		
15	16QAM	36	20	14.13	14.14	14.06	15.5	0
15	16QAM	36	39	14.36	14.21	14.07		
15	16QAM	75	0	14.28	14.17	14.17		
15	64QAM	1	0	14.09	14.27	14.03		
15	64QAM	1	37	14.15	14.17	14.13	15.5	0
15	64QAM	1	74	14.10	14.14	13.96		
15	64QAM	36	0	14.16	14.29	14.01		
15	64QAM	36	20	14.07	14.21	14.26	15.5	0
15	64QAM	36	39	14.05	14.24	14.13		
15	64QAM	75	0	14.08	14.05	14.14		
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	14.26	14.40	14.28		
10	QPSK	1	25	14.11	14.06	14.05	15.5	0
10	QPSK	1	49	14.02	14.14	13.97		
10	QPSK	25	0	14.12	14.38	14.32		
10	QPSK	25	12	13.98	14.14	14.17	15.5	0
10	QPSK	25	25	14.02	14.30	14.26		
10	QPSK	50	0	14.13	14.32	14.04		
10	16QAM	1	0	14.06	14.09	14.11		
10	16QAM	1	25	14.25	14.26	14.04	15.5	0
10	16QAM	1	49	14.18	14.31	14.21		
10	16QAM	25	0	14.05	14.15	14.02		
10	16QAM	25	12	14.12	14.24	14.04	15.5	0
10	16QAM	25	25	14.34	14.20	14.02		
10	16QAM	50	0	14.29	14.18	14.16		
10	64QAM	1	0	14.15	14.26	14.01	15.5	0
10	64QAM	1	25	14.21	14.15	14.19		
10	64QAM	1	49	14.17	14.09	13.98		
10	64QAM	25	0	14.16	14.39	14.00		
10	64QAM	25	12	14.09	14.20	14.22	15.5	0
10	64QAM	25	25	14.03	14.24	14.12		
10	64QAM	50	0	14.12	14.05	14.14		
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	14.23	14.47	14.37		
5	QPSK	1	12	14.11	14.06	14.04	15.5	0
5	QPSK	1	24	14.01	14.22	13.99		
5	QPSK	12	0	14.20	14.39	14.23		
5	QPSK	12	7	14.03	14.19	14.18	15.5	0
5	QPSK	12	13	14.07	14.27	14.24		
5	QPSK	25	0	14.13	14.28	14.07		
5	16QAM	1	0	14.03	14.12	14.15		
5	16QAM	1	12	14.25	14.23	14.03	15.5	0
5	16QAM	1	24	14.16	14.29	14.18		
5	16QAM	12	0	14.03	14.11	14.03	15.5	0
5	16QAM	12	7	14.13	14.16	14.05		
5	16QAM	12	13	14.37	14.22	13.98		
5	16QAM	25	0	14.28	14.27	14.13		
5	64QAM	1	0	14.05	14.28	14.09		
5	64QAM	1	12	14.12	14.16	14.11	15.5	0
5	64QAM	1	24	14.05	14.13	14.01		
5	64QAM	12	0	14.07	14.31	13.99	15.5	0
5	64QAM	12	7	14.05	14.20	14.21		
5	64QAM	12	13	14.08	14.26	14.18		
5	64QAM	25	0	14.10	14.10	14.16		
Channel				131987	132322	132657		
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	14.19	14.39	14.34		
3	QPSK	1	8	14.11	13.99	14.02	15.5	0
3	QPSK	1	14	14.05	14.18	14.05		
3	QPSK	8	0	14.13	14.35	14.24		
3	QPSK	8	4	13.98	14.16	14.19	15.5	0
3	QPSK	8	7	14.03	14.28	14.22		
3	QPSK	15	0	14.13	14.31	13.97		
3	16QAM	1	0	14.00	14.13	14.21		
3	16QAM	1	8	14.16	14.29	14.07	15.5	0
3	16QAM	1	14	14.18	14.27	14.17		
3	16QAM	8	0	14.12	14.12	14.08		
3	16QAM	8	4	14.11	14.23	14.00	15.5	0
3	16QAM	8	7	14.33	14.22	14.09		
3	16QAM	15	0	14.21	14.20	14.14		
3	64QAM	1	0	14.06	14.34	14.07		
3	64QAM	1	8	14.12	14.20	14.09	15.5	0
3	64QAM	1	14	14.10	14.16	14.06		
3	64QAM	8	0	14.07	14.27	14.05		
3	64QAM	8	4	14.02	14.16	14.19	15.5	0
3	64QAM	8	7	14.03	14.24	14.21		
3	64QAM	15	0	14.10	14.05	14.08		
Channel				131973	132322	132663		
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	14.27	14.37	14.27		
1.4	QPSK	1	3	14.13	14.05	14.05	15.5	0
1.4	QPSK	1	5	14.00	14.17	14.02		
1.4	QPSK	3	0	14.11	14.41	14.32		
1.4	QPSK	3	1	14.06	14.12	14.11		
1.4	QPSK	3	3	14.03	14.36	14.25		
1.4	QPSK	6	0	14.20	14.27	13.99	15.5	0
1.4	16QAM	1	0	14.07	14.19	14.17		
1.4	16QAM	1	3	14.16	14.27	14.02	15.5	0
1.4	16QAM	1	5	14.12	14.35	14.27		
1.4	16QAM	3	0	14.03	14.19	14.02		
1.4	16QAM	3	1	14.11	14.24	14.02	15.5	0
1.4	16QAM	3	3	14.26	14.23	14.00		
1.4	16QAM	6	0	14.34	14.17	14.15	15.5	0
1.4	64QAM	1	0	14.03	14.30	14.11		
1.4	64QAM	1	3	14.12	14.21	14.17		
1.4	64QAM	1	5	14.08	14.13	14.03	15.5	0
1.4	64QAM	3	0	14.16	14.38	14.00		
1.4	64QAM	3	1	14.10	14.19	14.24		
1.4	64QAM	3	3	14.07	14.23	14.18		
1.4	64QAM	6	0	14.13	14.06	14.11	15.5	0

Band 71 Ant4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				670.5	680.5	690.5		
20	QPSK	1	0	19.99	19.14	19.93		
20	QPSK	1	49	19.90	20.01	19.89	20.5	0
20	QPSK	1	99	19.91	20.00	19.86		
20	QPSK	50	0	19.94	19.97	19.92		
20	QPSK	50	24	19.75	19.80	19.88	20.5	0
20	QPSK	50	50	19.75	19.78	19.64		



Band 41 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	10.99	11.15	11.32	11.22	11.17	12	0
20	QPSK	1	49	10.93	10.91	11.26	11.10	11.16		
20	QPSK	5	99	10.93	11.38	11.21	11.32	11.18	12	0
20	QPSK	50	0	10.70	10.87	11.20	10.91	10.99		
20	QPSK	50	24	10.71	10.77	11.08	11.01	11.02	12	0
20	QPSK	50	50	10.74	10.85	10.91	10.91	10.92		
20	QPSK	100	0	10.84	10.89	11.16	11.05	11.07	12	0
20	16QAM	1	0	10.71	10.77	11.17	10.87	11.05		
20	16QAM	1	49	10.76	10.80	11.07	11.04	10.86	12	0
20	16QAM	1	99	10.72	10.84	10.94	10.96	10.91		
20	16QAM	50	0	10.65	10.70	11.12	11.10	10.83	12	0
20	16QAM	50	24	10.71	10.74	10.98	10.89	11.05		
20	16QAM	50	50	10.66	10.74	10.90	10.94	10.85	12	0
20	16QAM	100	0	10.71	10.82	11.17	10.99	11.00		
20	64QAM	1	0	10.94	10.48	10.76	10.85	10.70	12	0
20	64QAM	1	49	10.46	10.43	10.62	10.72	10.47		
20	64QAM	1	99	10.46	10.47	10.66	10.77	10.51	12	0
20	64QAM	50	0	10.78	10.78	10.96	10.92	10.88		
20	64QAM	50	24	10.77	10.71	10.94	10.91	10.90	12	0
20	64QAM	50	50	10.70	10.75	10.85	10.89	10.84		
20	64QAM	100	0	10.72	10.87	11.10	10.92	10.85		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	10.87	11.11	11.21	11.08	11.07	12.0	0
15	QPSK	1	37	10.84	10.83	11.17	10.95	11.08		
15	QPSK	1	74	10.88	11.02	11.12	10.97	11.08	12	0
15	QPSK	36	0	10.67	10.72	11.12	10.81	10.91		
15	QPSK	36	20	10.67	10.64	11.04	10.86	10.98	12	0
15	QPSK	36	39	10.64	10.75	10.83	10.76	10.83		
15	QPSK	75	0	10.74	10.83	11.03	10.91	11.00	12	0
15	16QAM	1	0	10.66	10.74	11.11	10.74	10.96		
15	16QAM	1	37	10.63	10.70	10.98	11.00	10.75	12	0
15	16QAM	1	74	10.66	10.70	10.84	10.82	10.87		
15	16QAM	36	0	10.59	10.61	10.84	10.97	10.76	12	0
15	16QAM	36	20	10.64	10.68	10.85	10.76	10.95		
15	16QAM	36	39	10.53	10.59	10.77	10.79	10.75	12	0
15	16QAM	75	0	10.58	10.69	11.08	10.89	10.90		
15	64QAM	1	0	10.30	10.36	10.69	10.53	10.60	12	0
15	64QAM	1	37	10.35	10.35	10.59	10.62	10.37		
15	64QAM	1	74	10.39	10.36	10.59	10.62	10.38	12	0
15	64QAM	36	0	10.67	10.66	10.86	10.89	10.80		
15	64QAM	36	20	10.70	10.57	10.79	10.85	10.76	12	0
15	64QAM	36	39	10.66	10.62	10.74	10.75	10.78		
15	64QAM	75	0	10.60	10.78	11.00	10.88	10.71		
Channel										
Frequency (MHz)				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	10.93	11.01	11.17	11.12	11.13	12.0	0
10	QPSK	1	25	10.85	10.83	11.12	11.02	11.06		
10	QPSK	1	49	10.86	10.93	11.16	11.01	11.07	12	0
10	QPSK	25	0	10.65	10.75	11.06	10.77	10.96		
10	QPSK	25	12	10.56	10.74	11.04	10.93	10.94	12	0
10	QPSK	25	25	10.64	10.82	10.83	10.77	10.87		
10	QPSK	50	0	10.73	10.85	11.07	11.02	10.95	12	0
10	16QAM	1	0	10.60	10.70	11.09	10.77	11.01		
10	16QAM	1	25	10.64	10.69	10.99	11.00	10.79	12	0
10	16QAM	1	49	10.62	10.77	10.85	10.96	10.77		
10	16QAM	25	0	10.50	10.60	10.82	10.82	10.78	12	0
10	16QAM	25	12	10.66	10.61	10.88	10.74	10.79		
10	16QAM	25	25	10.53	10.67	10.81	10.89	10.76	12	0
10	16QAM	50	0	10.66	10.76	11.08	10.88	10.87		
10	64QAM	1	0	10.21	10.43	10.70	10.60	10.59	12	0
10	64QAM	1	25	10.32	10.29	10.53	10.66	10.39		
10	64QAM	1	49	10.30	10.34	10.52	10.67	10.47	12	0
10	64QAM	25	0	10.64	10.71	10.88	10.87	10.81		
10	64QAM	25	12	10.70	10.66	10.86	10.80	10.76	12	0
10	64QAM	25	25	10.59	10.68	10.72	10.85	10.69		
10	64QAM	50	0	10.64	10.84	11.01	10.82	10.79		
Channel										
Frequency (MHz)				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	10.85	11.05	11.25	11.15	11.10	12.0	0
5	QPSK	1	12	10.81	10.77	11.16	10.96	11.03		
5	QPSK	1	24	10.79	10.99	11.11	11.09	11.09	12	0
5	QPSK	12	0	10.66	10.81	11.09	10.77	10.91		
5	QPSK	12	7	10.67	10.66	10.94	10.89	10.96	12	0
5	QPSK	12	13	10.69	10.77	10.76	10.87	10.86		
5	QPSK	25	0	10.75	10.81	11.12	10.99	11.04	12	0
5	16QAM	1	0	10.64	10.73	11.07	10.79	11.00		
5	16QAM	1	12	10.63	10.76	11.01	10.93	10.79	12	0
5	16QAM	1	24	10.59	10.80	10.79	10.89	10.85		
5	16QAM	12	0	10.61	10.58	10.83	10.90	10.77	12	0
5	16QAM	12	7	10.58	10.61	10.87	10.84	10.96		
5	16QAM	12	13	10.55	10.67	10.75	10.81	10.76	12	0
5	16QAM	25	0	10.64	10.70	11.07	10.93	10.95		
5	64QAM	1	0	10.29	10.35	10.72	10.53	10.62	12	0
5	64QAM	1	12	10.37	10.33	10.57	10.57	10.33		
5	64QAM	1	24	10.38	10.39	10.57	10.69	10.40	12	0
5	64QAM	12	0	10.65	10.70	10.90	10.86	10.76		
5	64QAM	12	7	10.70	10.66	10.89	10.82	10.76	12	0
5	64QAM	12	13	10.56	10.69	10.76	10.81	10.80		
5	64QAM	25	0	10.64	10.79	11.05	10.78	10.71		

Band 41 HPUE Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	13.70	13.69	14.16	13.99	14.10	15	0
20	QPSK	1	49	13.70	13.75	14.08	13.87	13.91		
20	QPSK	1	99	13.81	13.82	14.09	13.81	13.87	15	0
20	QPSK	50	0	13.68	13.67	14.03	13.74	13.81		
20	QPSK	50	24	13.67	13.63	13.80	13.66	13.70	15	0
20	QPSK	50	50	13.67	13.62	13.89	13.70	13.70		
20	QPSK	100	0	13.73	13.67	14.02	13.84	13.95	15	0
20	16QAM	1	0	13.54	13.56	13.77	13.73	13.80		
20	16QAM	1	49	13.82	13.53	13.96	13.71	13.78	15	0
20	16QAM	1	99	13.54	13.57	13.75	13.83	13.59		
20	16QAM	50	0	13.46	13.54	13.81	13.66	13.73	15	0
20	16QAM	50	24	13.46	13.57	13.93	13.58	13.86		
20	16QAM	50	50	13.53	13.52	13.76	13.67	13.70	15	0
20	16QAM	100	0	13.76	13.85	14.01	13.85	13.98		
20	64QAM	1	0	13.30	13.40	13.56	13.62	13.64	15	0
20	64QAM	1	49	13.38	13.24	13.63	13.52	13.67		
20	64QAM	1	99	13.35	13.30	13.59	13.58	13.30	15	0
20	64QAM	50	0	13.65	13.60	13.82	13.68	13.72		
20	64QAM	50	24	13.52	13.54	13.83	13.48	13.79	15	0
20	64QAM	50	50	13.65	13.62	13.80	13.73	13.85		
20	64QAM	100	0							



Band 48 Ant5_FCC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	13.39	13.55	13.48	13.44	15	0
20	QPSK	1	49	13.22	13.52	13.29	13.40		
20	QPSK	1	99	13.23	13.53	13.26	13.39		
20	QPSK	50	0	13.44	13.50	13.48	13.42		
20	QPSK	50	24	13.35	13.48	13.31	13.32	15	0
20	QPSK	50	50	13.34	13.49	13.19	13.21		
20	QPSK	100	0	13.28	13.44	13.38	13.38		
20	16QAM	1	0	13.34	13.48	13.38	13.44		
20	16QAM	1	49	13.34	13.46	13.32	13.40	15	0
20	16QAM	1	99	13.22	13.48	13.38	13.25		
20	16QAM	50	0	13.44	13.42	13.48	13.21		
20	16QAM	50	24	13.50	13.53	13.31	13.29		
20	16QAM	50	50	13.15	13.44	13.29	13.26	15	0
20	16QAM	100	0	13.40	13.48	13.39	13.30		
20	64QAM	1	0	13.05	13.29	13.12	13.07		
20	64QAM	1	49	13.13	13.28	13.02	13.15		
20	64QAM	1	99	13.06	13.31	13.00	13.05	15	0
20	64QAM	50	0	13.47	13.49	13.43	13.30		
20	64QAM	50	24	13.50	13.45	13.30	13.32		
20	64QAM	50	50	13.28	13.34	13.18	13.34		
20	64QAM	100	0	13.26	13.45	13.44	13.30		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3603	3642	3692.5		
15	QPSK	1	0	13.37	13.51	13.46	13.36	15	0
15	QPSK	1	37	13.21	13.43	13.34	13.33		
15	QPSK	1	74	13.18	13.52	13.27	13.32		
15	QPSK	36	0	13.36	13.45	13.46	13.38		
15	QPSK	36	20	13.37	13.52	13.25	13.29	15	0
15	QPSK	36	39	13.31	13.53	13.15	13.24		
15	QPSK	75	0	13.20	13.44	13.33	13.31		
15	16QAM	1	0	13.39	13.52	13.32	13.45		
15	16QAM	1	37	13.33	13.49	13.29	13.37	15	0
15	16QAM	1	74	13.16	13.44	13.37	13.19		
15	16QAM	36	0	13.35	13.36	13.53	13.18		
15	16QAM	36	20	13.46	13.53	13.23	13.22		
15	16QAM	36	39	13.13	13.40	13.29	13.21	15	0
15	16QAM	75	0	13.43	13.49	13.35	13.27		
15	64QAM	1	0	13.04	13.23	13.07	13.03		
15	64QAM	1	37	13.10	13.22	13.07	13.19		
15	64QAM	1	74	13.02	13.26	13.03	13.09	15	0
15	64QAM	36	0	13.48	13.49	13.34	13.30		
15	64QAM	36	20	13.32	13.44	13.31	13.33		
15	64QAM	36	39	13.29	13.35	13.13	13.36		
15	64QAM	75	0	13.28	13.38	13.48	13.28		
Channel				55290	55815	56185	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	13.43	13.54	13.52	13.37	15	0
10	QPSK	1	25	13.23	13.53	13.32	13.33		
10	QPSK	1	49	13.16	13.52	13.28	13.42		
10	QPSK	25	0	13.46	13.52	13.41	13.46		
10	QPSK	25	12	13.38	13.44	13.28	13.28	15	0
10	QPSK	25	25	13.26	13.47	13.18	13.19		
10	QPSK	50	0	13.33	13.42	13.40	13.43		
10	16QAM	1	0	13.25	13.41	13.36	13.45		
10	16QAM	1	25	13.26	13.49	13.28	13.35	15	0
10	16QAM	1	49	13.16	13.47	13.31	13.30		
10	16QAM	25	0	13.35	13.38	13.38	13.25		
10	16QAM	25	12	13.42	13.45	13.31	13.29		
10	16QAM	25	25	13.09	13.45	13.34	13.28	15	0
10	16QAM	50	0	13.36	13.46	13.33	13.28		
10	64QAM	1	0	13.02	13.25	13.15	13.09		
10	64QAM	1	25	13.06	13.27	13.19	13.18		
10	64QAM	1	49	13.05	13.29	13.15	13.03	15	0
10	64QAM	25	0	13.30	13.41	13.42	13.31		
10	64QAM	25	12	13.51	13.45	13.25	13.24		
10	64QAM	25	25	13.28	13.38	13.16	13.26		
10	64QAM	50	0	13.24	13.43	13.45	13.25		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	13.41	13.51	13.44	13.41	15	0
5	QPSK	1	12	13.22	13.45	13.26	13.42		
5	QPSK	1	24	13.17	13.37	13.29	13.41		
5	QPSK	12	0	13.46	13.54	13.43	13.35		
5	QPSK	12	7	13.35	13.39	13.23	13.30	15	0
5	QPSK	12	13	13.30	13.48	13.12	13.19		
5	QPSK	25	0	13.22	13.47	13.40	13.41		
5	16QAM	1	0	13.26	13.48	13.33	13.44		
5	16QAM	1	12	13.33	13.30	13.29	13.35	15	0
5	16QAM	1	24	13.21	13.47	13.32	13.28		
5	16QAM	12	0	13.41	13.44	13.49	13.15		
5	16QAM	12	7	13.51	13.46	13.27	13.26		
5	16QAM	12	13	13.15	13.47	13.24	13.24	15	0
5	16QAM	25	0	13.42	13.45	13.32	13.31		
5	64QAM	1	0	13.09	13.33	13.05	13.04		
5	64QAM	1	12	13.17	13.31	13.05	13.13		
5	64QAM	1	24	13.08	13.26	13.00	13.07	15	0
5	64QAM	12	0	13.31	13.48	13.43	13.26		
5	64QAM	12	7	13.31	13.46	13.33	13.36		
5	64QAM	12	13	13.20	13.38	13.17	13.32		
5	64QAM	25	0	13.29	13.47	13.44	13.25		



Band 41 Ant7														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				39750	40185	40620	41055	41490						
Frequency (MHz)				2506	2549.5	2593	2636.5	2680						
20	QPSK	1	0	15.11	15.23	15.44	15.26	15.39	16.5	0				
20	QPSK	1	49	14.98	15.07	15.40	14.99	15.25						
20	QPSK	1	99	15.00	15.09	15.36	15.21	15.31						
20	QPSK	50	0	14.96	15.22	15.41	15.21	15.35						
20	QPSK	50	24	15.08	15.16	15.36	15.17	15.32	16.5	0				
20	QPSK	50	50	15.13	15.06	15.32	15.23	15.36						
20	QPSK	100	0	15.11	15.18	15.36	15.24	15.23						
20	16QAM	1	0	14.85	15.05	15.35	15.04	15.18						
20	16QAM	1	49	14.97	15.05	15.24	15.03	15.13	16.5	0				
20	16QAM	1	99	15.01	15.12	15.26	15.12	15.14						
20	16QAM	50	0	15.13	15.28	15.42	15.07	15.37						
20	16QAM	50	24	15.02	15.24	15.31	15.03	15.26						
20	16QAM	50	50	15.15	15.17	15.28	15.18	15.31	16.5	0				
20	16QAM	100	0	15.08	15.29	15.32	15.16	15.33						
20	64QAM	1	0	14.54	14.57	14.89	14.59	14.75						
20	64QAM	1	49	14.60	14.77	14.92	14.53	14.68						
20	64QAM	1	99	14.62	14.63	14.86	14.67	14.77	16.5	0				
20	64QAM	50	0	15.11	15.23	15.28	15.14	15.29						
20	64QAM	50	24	15.23	15.33	15.31	15.14	15.32						
20	64QAM	50	50	15.25	15.16	15.23	15.14	15.37						
20	64QAM	100	0	15.03	15.43	15.34	15.32	15.25	16.5	0				
Channel				39725	40173	40620	41068	41515						
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5						
15	QPSK	1	0	14.95	15.12	15.37	15.20	15.34			16.5	0		
15	QPSK	1	37	14.90	15.01	15.37	14.93	15.12						
15	QPSK	1	74	14.96	14.97	15.35	15.02	15.19						
15	QPSK	36	0	14.87	15.07	15.37	15.14	15.30						
15	QPSK	36	20	14.94	15.09	15.23	15.11	15.23	16.5	0				
15	QPSK	36	39	15.09	14.98	15.23	15.12	15.24						
15	QPSK	75	0	15.02	15.05	15.29	15.12	15.14						
15	16QAM	1	0	14.79	14.92	15.22	15.00	15.10						
15	16QAM	1	37	14.85	15.00	15.17	14.90	14.99	16.5	0				
15	16QAM	1	74	14.98	15.06	15.12	14.99	15.08						
15	16QAM	36	0	15.01	15.15	15.34	15.03	15.33						
15	16QAM	36	20	14.99	15.18	15.17	14.96	15.17						
15	16QAM	36	39	15.07	15.07	15.15	15.03	15.23	16.5	0				
15	16QAM	75	0	14.95	15.17	15.25	15.13	15.28						
15	64QAM	1	0	14.56	14.50	14.76	14.56	14.60						
15	64QAM	1	37	14.57	14.73	14.78	14.58	14.60						
15	64QAM	1	74	14.57	14.60	14.80	14.63	14.71	16.5	0				
15	64QAM	36	0	14.96	15.15	15.20	15.04	15.16						
15	64QAM	36	20	15.14	15.30	15.17	15.00	15.23						
15	64QAM	36	39	15.12	15.03	15.19	15.02	15.22						
15	64QAM	75	0	14.98	15.29	15.31	15.28	15.22	16.5	0				
Channel				39700	40160	40620	41080	41540						
Frequency (MHz)				2501	2547	2593	2639	2685						
10	QPSK	1	0	14.92	15.09	15.39	15.13	15.27			16.5	0		
10	QPSK	1	25	14.89	14.96	15.26	14.96	15.21						
10	QPSK	1	49	14.94	14.99	15.24	14.99	15.25						
10	QPSK	25	0	15.03	15.14	15.35	15.09	15.32						
10	QPSK	25	12	15.04	15.05	15.23	15.08	15.22	16.5	0				
10	QPSK	25	25	15.03	14.97	15.21	15.13	15.23						
10	QPSK	50	0	15.03	15.04	15.26	15.18	15.12						
10	16QAM	1	0	14.72	14.98	15.22	14.99	15.08						
10	16QAM	1	25	14.89	14.94	15.11	15.00	15.02	16.5	0				
10	16QAM	1	49	14.89	14.98	15.20	15.05	15.10						
10	16QAM	25	0	15.00	15.23	15.38	15.03	15.34						
10	16QAM	25	12	14.89	15.15	15.19	14.99	15.19						
10	16QAM	25	25	15.09	15.08	15.22	15.04	15.25	16.5	0				
10	16QAM	50	0	15.05	15.15	15.25	15.08	15.19						
10	64QAM	1	0	14.51	14.51	14.80	14.51	14.67						
10	64QAM	1	25	14.56	14.67	14.78	14.58	14.63						
10	64QAM	1	49	14.59	14.50	14.71	14.60	14.74	16.5	0				
10	64QAM	25	0	15.00	15.20	15.24	14.99	15.16						
10	64QAM	25	12	15.10	15.19	15.19	14.99	15.19						
10	64QAM	25	25	15.12	15.05	15.18	15.01	15.32						
10	64QAM	50	0	14.96	15.29	15.30	15.24	15.15	16.5	0				
Channel				39675	40148	40620	41093	41565						
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5						
5	QPSK	1	0	14.96	15.17	15.36	15.19	15.32			16.5	0		
5	QPSK	1	12	14.92	15.02	15.26	14.88	15.13						
5	QPSK	1	24	14.87	14.98	15.33	15.00	15.24						
5	QPSK	12	0	14.84	15.11	15.30	15.18	15.21						
5	QPSK	12	7	14.98	15.10	15.29	15.07	15.27	16.5	0				
5	QPSK	12	13	15.00	15.02	15.18	15.12	15.27						
5	QPSK	25	0	15.07	15.11	15.31	15.18	15.17						
5	16QAM	1	0	14.70	15.01	15.11	14.95	15.14						
5	16QAM	1	12	14.90	14.98	15.19	14.96	15.05	16.5	0				
5	16QAM	1	24	14.94	15.02	15.13	15.09	15.04						
5	16QAM	12	0	14.98	15.22	15.34	14.98	15.26						
5	16QAM	12	7	14.88	15.15	15.17	14.89	15.13						
5	16QAM	12	13	15.09	15.04	15.17	15.05	15.19	16.5	0				
5	16QAM	25	0	14.98	15.22	15.19	15.04	15.27						
5	64QAM	1	0	14.51	14.58	14.83	14.54	14.67						
5	64QAM	1	12	14.51	14.69	14.87	14.57	14.64						
5	64QAM	1	24	14.50	14.59	14.76	14.59	14.65	16.5	0				
5	64QAM	12	0	15.00	15.12	15.14	15.08	15.23						
5	64QAM	12	7	15.14	15.25	15.21	15.11	15.19						
5	64QAM	12	13	15.17	15.07	15.08	15.10	15.31						
5	64QAM	25	0	14.94	15.35	15.27	15.19	15.18	16.5	0				

Band 41 HPUE Ant7														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				39750	40185	40620	41055	41490						
Frequency (MHz)				2506	2549.5	2593	2636.5	2680						
20	QPSK	1	0	18.29	18.51	18.66	18.50	18.48	19.5	0				
20	QPSK	1	49	18.27	18.24	18.64	18.38	18.43						
20	QPSK	1	99	18.37	18.41	18.46	18.34	18.41						
20	QPSK	50	0	18.33	18.30	18.50	18.30	18.40						
20	QPSK	50	24	18.13	18.11	18.40	18.33	18.37	19.5	0				
20	QPSK	50	50	18.10	18.29	18.38	18.25	18.34						
20	QPSK	100	0	18.10	18.21	18.43	18.26	18.26						
20	16QAM	1	0	18.27	18.26	18.50	18.46	18.46						
20	16QAM	1	49	18.21	18.33	18.50	18.40	18.43	19.5	0				
20	16QAM	1	99	18.19	18.25	18.48	18.40	18.51						
20	16QAM	50	0	18.26	18.20	18.51	18.33	18.34						
20	16QAM	50	24	18.06	18.11	18.45	18.33	18.38						
20	16QAM	50	50	18.20	18.40	18.26	18.21	18.21	19.5	0				
20	16QAM	100	0	18.15	18.25	18.51	18.33	18.35						
20	64QAM	1	0	18.08	18.18	18.32	18.32	18.44						
20	64QAM	1	49	18.04	18.07	18.24	18.34	18.42						
20	64QAM	1	99	18.00	18.25	18.27	18.23	18.19	19.5	0				
20	64QAM	50	0	18.37	18.43	18.63	18.26	18.36						
20	64QAM	50	24	18.23	18.40	18.57	18.39	18.42						
20	64QAM	50	50	18.33	18.42	18.55	18.32	18.28						
20	64QAM	100	0	18.33	18.26	18.65	18.18	18.42	19.5	0				
Channel				39725	40173	40620	41068	41515						
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5						
15	QPSK	1	0	18.17	18.40	18.54	18.37	18.38			19.5	0		
15	QPSK	1	37	18.14	18.10	18.56	18.24	18.33						
15	QPSK	1	74	18.23	18.28	18.40	18.22	18.30						
15	QPSK	36	0	18.23	18.26	18.35	18.17	18.30						
15	QPSK	36	20	18.07	18.37	18.36	18.21	18.31	19.5	0				
15	QPSK	36	39	17.96	18.26	18.33	18.12	18.28						
15	QPSK	75	0	18.01	18.11	18.31	18.18	18.15						
15	16QAM	1	0	18.23	18.14	18.40	18.34	18.40						
15	16QAM	1	37	18.06	18.20	18.40	18.26	18.30	19.5	0				
15	16QAM	1	74	18.14	18.18	18.36	18.32	18.38						
15	16QAM	36	0	18.19	18.16	18.39	18.20	18.29						
15	16QAM	36	20	17.99	18.04	18.31	18.21	18.27						
15	16QAM	36	39	18.07	18.36	18.13	18.10	18.09	19.5	0				
15	16QAM	75	0	18.03	18.16	18.38	18.21	18.21						
15	64QAM	1	0	18.00	18.07	18.27	18.27	18.33						
15	64QAM	1	37	17.90	18.02	18.19	18.27	18.06						
15	64QAM	1	74	17.94	18.17	18.13	18.11	18.15	19.5	0				
15	64QAM	36	0	18.34	18.33	1								



ECI4 Power for Other PA

Band 41 ECI4 Ant2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.68	21.03	21.09	20.86	20.66	21.5	0
20	QPSK	1	49	20.76	20.89	20.93	20.85	20.71		
20	QPSK	1	99	20.72	20.78	21.01	20.70	20.63	21.5	0
20	QPSK	50	0	20.70	20.78	21.05	20.78	20.61		
20	QPSK	50	24	20.59	20.84	20.78	20.79	20.55	21.5	0
20	QPSK	50	50	20.57	20.68	20.74	20.61	20.58		
20	QPSK	100	0	20.67	20.81	20.97	20.69	20.59	21.5	0
20	16QAM	1	0	20.57	20.81	20.84	20.73	20.41		
20	16QAM	1	49	20.52	20.70	20.73	20.61	20.46	21.5	0
20	16QAM	1	99	20.52	20.62	20.73	20.47	20.37		
20	16QAM	50	0	19.72	19.90	19.88	19.74	19.51	20.5	1
20	16QAM	50	24	19.51	19.80	19.88	19.69	19.50		
20	16QAM	50	50	19.45	19.70	19.86	19.53	19.54	20.5	1
20	16QAM	100	0	19.56	19.79	19.97	19.67	19.50		
20	64QAM	1	0	19.18	19.19	19.39	19.20	19.03	20.5	1
20	64QAM	1	49	19.02	19.22	19.23	19.10	19.05		
20	64QAM	1	99	19.00	19.06	19.23	19.08	19.02	19.5	2
20	64QAM	50	0	18.60	18.72	18.75	18.65	18.52		
20	64QAM	50	24	18.50	18.73	18.75	18.80	18.55	19.5	2
20	64QAM	50	50	18.63	18.63	18.65	18.48	18.54		
20	64QAM	100	0	18.73	18.89	18.94	18.68	18.53		
Channel				39725	40173	40620	41088	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.58	20.93	20.90	20.71	20.50	22.5	0
15	QPSK	1	37	20.57	20.88	20.83	20.71	20.50		
15	QPSK	1	74	20.63	20.64	20.81	20.52	20.52	22.5	0
15	QPSK	36	0	20.58	20.64	20.89	20.71	20.56		
15	QPSK	36	20	20.45	20.72	20.70	20.62	20.41	22.5	0
15	QPSK	36	39	20.51	20.53	20.69	20.56	20.52		
15	QPSK	75	0	20.53	20.76	20.93	20.56	20.47	22.5	0
15	16QAM	1	0	20.53	20.67	20.67	20.64	20.28		
15	16QAM	1	37	20.39	20.59	20.69	20.54	20.37	22.5	0
15	16QAM	1	74	20.43	20.46	20.57	20.40	20.28		
15	16QAM	36	0	19.58	19.80	19.84	19.62	19.38	21.5	1
15	16QAM	36	20	19.49	19.64	19.79	19.62	19.38		
15	16QAM	36	39	19.52	19.64	19.71	19.46	19.48	21.5	1
15	16QAM	75	0	19.40	19.67	19.86	19.61	19.37		
15	64QAM	1	0	19.04	19.03	19.23	19.10	18.91	21.5	1
15	64QAM	1	37	18.92	19.19	19.10	19.00	18.94		
15	64QAM	1	74	18.84	19.03	19.10	18.92	18.85	20.5	2
15	64QAM	36	0	18.54	18.61	18.59	18.60	18.39		
15	64QAM	36	20	18.40	18.67	18.62	18.75	18.42	20.5	2
15	64QAM	36	39	18.48	18.57	18.59	18.40	18.47		
15	64QAM	75	0	18.66	18.85	18.80	18.65	18.45		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.63	20.95	20.96	20.75	20.55	21.5	0
10	QPSK	1	25	20.53	20.78	20.86	20.67	20.50		
10	QPSK	1	49	20.58	20.66	20.83	20.60	20.51	21.5	0
10	QPSK	25	0	20.59	20.72	20.93	20.62	20.56		
10	QPSK	25	12	20.49	20.78	20.70	20.68	20.50	21.5	0
10	QPSK	25	25	20.50	20.62	20.63	20.47	20.43		
10	QPSK	50	0	20.57	20.70	20.84	20.57	20.51	21.5	0
10	16QAM	1	0	20.42	20.74	20.70	20.60	20.32		
10	16QAM	1	25	20.47	20.63	20.61	20.58	20.41	21.5	0
10	16QAM	1	49	20.38	20.55	20.64	20.33	20.29		
10	16QAM	25	0	19.60	19.84	19.84	19.67	19.39	20.5	1
10	16QAM	25	12	19.52	19.66	19.80	19.60	19.41		
10	16QAM	25	25	19.51	19.54	19.78	19.47	19.49	20.5	1
10	16QAM	50	0	19.52	19.70	19.83	19.53	19.41		
10	64QAM	1	0	19.09	19.07	19.34	19.09	18.87	20.5	1
10	64QAM	1	25	18.90	19.08	19.17	19.06	19.00		
10	64QAM	1	49	18.89	18.92	19.08	18.86	18.92	19.5	2
10	64QAM	25	0	18.49	18.64	18.71	18.52	18.43		
10	64QAM	25	12	18.41	18.60	18.71	18.76	18.41	19.5	2
10	64QAM	25	25	18.56	18.52	18.56	18.41	18.41		
10	64QAM	50	0	18.67	18.79	18.89	18.56	18.39		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	20.56	20.94	20.96	20.71	20.51	21.5	0
5	QPSK	1	12	20.58	20.88	20.92	20.67	20.53		
5	QPSK	1	24	20.56	20.67	20.81	20.55	20.54	21.5	0
5	QPSK	12	0	20.56	20.65	20.92	20.70	20.53		
5	QPSK	12	7	20.56	20.80	20.64	20.66	20.52	21.5	0
5	QPSK	12	13	20.42	20.52	20.67	20.55	20.46		
5	QPSK	25	0	20.56	20.76	20.80	20.55	20.54	21.5	0
5	16QAM	1	0	20.47	20.77	20.75	20.70	20.36		
5	16QAM	1	12	20.41	20.55	20.61	20.57	20.33	20.5	1
5	16QAM	1	24	20.41	20.57	20.69	20.33	20.45		
5	16QAM	12	0	19.67	19.64	19.74	19.60	19.46	20.5	1
5	16QAM	12	7	19.48	19.69	19.74	19.55	19.45		
5	16QAM	12	13	19.32	19.55	19.63	19.42	19.49	20.5	1
5	16QAM	25	0	19.53	19.67	19.89	19.60	19.46		
5	64QAM	1	0	19.15	19.05	19.24	19.07	18.93	20.5	1
5	64QAM	1	12	18.87	19.05	19.20	18.94	18.98		
5	64QAM	1	24	18.84	19.00	19.13	18.87	18.90	19.5	2
5	64QAM	12	0	18.50	18.65	18.68	18.50	18.36		
5	64QAM	12	7	18.40	18.56	18.60	18.66	18.50	19.5	2
5	64QAM	12	13	18.50	18.57	18.53	18.33	18.40		
5	64QAM	25	0	18.66	18.81	18.79	18.60	18.40		

Band 41 HPUE ECI4 Ant2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.65	23.72	23.78	23.58	23.43	24.5	0
20	QPSK	1	49	23.45	23.60	23.59	23.56	23.44		
20	QPSK	1	99	23.53	23.57	23.57	23.38	23.31	24.5	0
20	QPSK	50	0	23.65	23.76	23.77	23.49	23.38		
20	QPSK	50	24	23.43	23.64	23.65	23.42	23.32	24.5	0
20	QPSK	50	50	23.59	23.63	23.61	23.46	23.48		
20	QPSK	100	0	23.48	23.68	23.70	23.46	23.33	24.5	0
20	16QAM	1	0	23.50	23.62	23.67	23.44	23.35		
20	16QAM	1	49	23.57	23.65	23.59	23.42	23.51	24.5	0
20	16QAM	1	99	23.63	23.51	23.64	23.39	23.36		
20	16QAM	50	0	22.62	22.68	22.82	22.43	22.50	23.5	1
20	16QAM	50	24	22.63	22.59	22.57	22.50	22.41		
20	16QAM	50	50	22.50	22.72	22.64	22.40	22.45	23.5	1
20	16QAM	100	0	22.55	22.61	22.71	22.46	22.29		
20	64QAM	1	0	22.30	22.33	22.41	22.26	22.28	23.5	1
20	64QAM	1	49	22.26	22.25	22.47	22.10	22.23		
20	64QAM	1	99	22.38	22.41	22.43	22.25	22.23	22.5	2
20	64QAM	50	0	21.74	21.93	21.93	21.64	21.66		
20	64QAM	50	24	21.60	21.77	21.79	21.51	21.58	22.5	2
20	64QAM	50	50	21.85	21.74	21.92	21.74	21.50		



Default Power for Other PA

Band 2 Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				1870	1890	1910				
20	QPSK	1	0	22.80	22.79	22.78	24	0		
20	QPSK	1	49	22.83	22.79	22.65	23	1		
20	QPSK	1	99	22.68	22.82	22.65	23	1		
20	QPSK	50	0	21.81	21.84	21.73	23	1		
20	QPSK	50	24	21.70	21.82	21.65	23	1		
20	QPSK	50	50	21.75	21.76	21.62	23	1		
20	QPSK	100	0	21.73	21.75	21.70	23	1		
20	16QAM	1	0	21.85	21.85	21.74	23	1		
20	16QAM	1	49	21.82	21.82	21.64	23	1		
20	16QAM	1	99	21.63	21.76	21.61	23	1		
20	16QAM	50	0	20.75	20.82	20.66	22	2		
20	16QAM	50	24	20.74	20.88	20.69	22	2		
20	16QAM	50	50	20.79	20.77	20.66	22	2		
20	16QAM	100	0	20.74	20.75	20.73	22	2		
20	64QAM	1	0	20.87	20.81	20.82	22	2		
20	64QAM	1	49	20.69	20.73	20.63	22	2		
20	64QAM	1	99	20.67	20.82	20.64	22	2		
20	64QAM	50	0	19.76	19.83	19.70	21	3		
20	64QAM	50	24	19.72	19.76	19.63	21	3		
20	64QAM	50	50	19.72	19.83	19.67	21	3		
20	64QAM	100	0	19.72	19.81	19.72	21	3		
Channel										
Frequency (MHz)										
				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	22.66	22.82	22.65	24	0		
15	QPSK	1	37	22.55	22.73	22.48	24	0		
15	QPSK	1	74	22.58	22.77	22.48	24	0		
15	QPSK	36	0	21.76	21.77	21.69	23	1		
15	QPSK	36	20	21.83	21.68	21.50	23	1		
15	QPSK	36	39	21.68	21.67	21.48	23	1		
15	QPSK	75	0	21.65	21.70	21.60	23	1		
15	16QAM	1	0	21.76	21.72	21.66	23	1		
15	16QAM	1	37	21.48	21.79	21.55	23	1		
15	16QAM	1	74	21.55	21.68	21.52	23	1		
15	16QAM	36	0	20.71	20.72	20.54	22	2		
15	16QAM	36	20	20.65	20.73	20.59	22	2		
15	16QAM	36	39	20.63	20.73	20.54	22	2		
15	16QAM	75	0	20.61	20.63	20.56	22	2		
15	64QAM	1	0	20.73	20.74	20.74	22	2		
15	64QAM	1	37	20.52	20.62	20.51	22	2		
15	64QAM	1	74	20.53	20.76	20.55	22	2		
15	64QAM	36	0	19.67	19.69	19.53	21	3		
15	64QAM	36	20	19.68	19.68	19.53	21	3		
15	64QAM	36	39	19.64	19.76	19.59	21	3		
15	64QAM	75	0	19.64	19.72	19.61	21	3		
Channel										
Frequency (MHz)										
				1850	1890	1910	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	22.75	22.80	22.65	24	0		
10	QPSK	1	25	22.49	22.69	22.61	24	0		
10	QPSK	1	49	22.56	22.74	22.61	24	0		
10	QPSK	25	0	21.66	21.73	21.60	23	1		
10	QPSK	25	12	21.63	21.73	21.50	23	1		
10	QPSK	25	25	21.64	21.63	21.54	23	1		
10	QPSK	50	0	21.90	21.72	21.62	23	1		
10	16QAM	1	0	21.79	21.70	21.70	23	1		
10	16QAM	1	25	21.50	21.70	21.48	23	1		
10	16QAM	1	49	21.57	21.66	21.49	23	1		
10	16QAM	25	0	20.61	20.67	20.49	22	2		
10	16QAM	25	12	20.60	20.82	20.60	22	2		
10	16QAM	25	25	20.66	20.64	20.56	22	2		
10	16QAM	50	0	20.57	20.61	20.66	22	2		
10	16QAM	50	1	20.84	20.71	20.76	22	2		
10	16QAM	50	1	20.51	20.59	20.49	22	2		
10	16QAM	1	49	20.56	20.65	20.59	22	2		
10	16QAM	25	0	19.61	19.70	19.62	21	3		
10	16QAM	25	12	19.68	19.70	19.57	21	3		
10	16QAM	25	25	19.67	19.69	19.50	21	3		
10	64QAM	50	0	19.63	19.77	19.56	21	3		
Channel										
Frequency (MHz)										
				1825.5	1880	1917.5	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	22.69	22.81	22.62	24	0		
5	QPSK	1	12	22.51	22.86	22.64	24	0		
5	QPSK	1	24	22.54	22.70	22.56	24	0		
5	QPSK	12	0	21.72	21.68	21.61	23	1		
5	QPSK	12	7	21.54	21.67	21.50	23	1		
5	QPSK	12	13	21.64	21.63	21.58	23	1		
5	QPSK	25	0	21.62	21.61	21.60	23	1		
5	16QAM	1	0	21.76	21.73	21.64	23	1		
5	16QAM	1	12	21.53	21.73	21.54	23	1		
5	16QAM	1	24	21.58	21.73	21.53	23	1		
5	16QAM	12	0	20.71	20.73	20.65	22	2		
5	16QAM	12	7	20.57	20.73	20.60	22	2		
5	16QAM	12	13	20.70	20.61	20.53	22	2		
5	16QAM	25	0	20.66	20.65	20.57	22	2		
5	16QAM	25	0	20.71	20.72	20.78	22	2		
5	64QAM	1	12	20.57	20.60	20.59	22	2		
5	64QAM	1	24	20.58	20.67	20.50	22	2		
5	64QAM	12	0	19.66	19.68	19.57	21	3		
5	64QAM	12	7	19.58	19.67	19.50	21	3		
5	64QAM	12	13	19.64	19.68	19.50	21	3		
5	64QAM	25	0	19.56	19.73	19.68	21	3		
Channel										
Frequency (MHz)										
				1881.5	1890	1908.5	Tune-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	22.68	22.79	22.71	24	0		
3	QPSK	1	8	22.50	22.75	22.57	24	0		
3	QPSK	1	14	22.56	22.74	22.56	24	0		
3	QPSK	8	0	21.75	21.78	21.58	23	1		
3	QPSK	8	4	21.61	21.68	21.58	23	1		
3	QPSK	8	7	21.58	21.67	21.59	23	1		
3	QPSK	15	0	21.69	21.67	21.58	23	1		
3	16QAM	1	0	21.77	21.77	21.61	23	1		
3	16QAM	1	8	21.46	21.77	21.53	23	1		
3	16QAM	1	14	21.52	21.66	21.51	23	1		
3	16QAM	8	0	20.63	20.66	20.59	22	2		
3	16QAM	8	4	20.70	20.75	20.60	22	2		
3	16QAM	8	7	20.65	20.69	20.59	22	2		
3	16QAM	15	0	20.59	20.65	20.65	22	2		
3	64QAM	1	8	20.58	20.62	20.59	22	2		
3	64QAM	1	14	20.64	20.75	20.54	22	2		
3	64QAM	8	0	19.61	19.72	19.60	21	3		
3	64QAM	8	4	19.65	19.69	19.46	21	3		
3	64QAM	8	7	19.63	19.73	19.51	21	3		
3	64QAM	15	0	19.67	19.76	19.61	21	3		
Channel										
Frequency (MHz)										
				1807	1890	1913	Tune-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	22.70	22.78	22.73	24	0		
1.4	QPSK	1	3	22.80	22.75	22.58	24	0		
1.4	QPSK	1	5	22.52	22.66	22.53	24	0		
1.4	QPSK	3	0	22.74	22.79	22.71	24	0		
1.4	QPSK	3	1	22.51	22.65	22.49	24	0		
1.4	QPSK	3	3	22.57	22.69	22.49	24	0		
1.4	QPSK	6	0	21.72	21.76	21.69	23	1		
1.4	16QAM	1	0	21.59	21.71	21.51	23	1		
1.4	16QAM	1	3	21.59	21.87	21.64	23	1		
1.4	16QAM	1	5	21.68	21.63	21.64	23	1		
1.4	16QAM	3	0	21.73	21.80	21.57	23	1		
1.4	16QAM	3	1	21.55	21.68	21.51	23	1		
1.4	16QAM	3	3	21.54	21.62	21.51	23	1		
1.4	16QAM	6	0	20.67	20.65	20.55	22	2		
1.4	16QAM	1	0	20.59	20.77	20.59	22	2		
1.4	16QAM	1	3	20.69	20.71	20.63	22	2		
1.4	16QAM	1	5	20.63	20.66	20.64	22	2		
1.4	16QAM	3	0	20.73	20.77	20.78	22	2		
1.4	16QAM	3	1	20.63	20.62	20.49	22	2		
1.4	16QAM	3	3	20.54	20.74	20.50	22	2		
1.4	16QAM	6	0	19.60	19.67	19.66	21	3		

Band 4 Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				2090	2175	2200				
20	QPSK	1	0	22.69	22.72	22.62	24	0		
20	QPSK	1	49	22.65	22.72	22.58	24	0		
20	QPSK	1	99	22.61	22.73	22.63	24	0		
20	QPSK	50	0	21.70	21.74	21.69	23	1		
20	QPSK	50	24	21.68	21.73	21.72	23	1		
20	QPSK	50	50	21.64	21.70	21.65	23	1		
20	QPSK	100	0	21.68	21.72	21.79	23	1		
20	16QAM	1	0	21.73	21.78	21.73	23	1		
20	16QAM	1	49	21.63	21.68	21.68	23	1		
20	16QAM	1	99	21.55	21.76	21.69	23	1		
20										



Band 66 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 132072	Power Middle Ch. / Freq. 132322	Power High Ch. / Freq. 132572	Tune-up limit (dBm)	MPR (dB)	
Channel				1720	1745	1770			
Frequency (MHz)									
20	QPSK	1	0	22.73	22.78	22.76	24	0	
20	QPSK	1	49	22.82	22.75	22.84			
20	QPSK	1	99	22.88	22.75	22.86			
20	QPSK	50	0	21.88	21.85	21.77	23	1	
20	QPSK	50	24	21.80	21.70	21.60			
20	QPSK	50	50	21.72	21.73	21.71			
20	QPSK	100	0	21.78	21.80	21.78	23	1	
20	16QAM	1	0	21.73	21.81	21.74			
20	16QAM	1	49	21.58	21.72	21.56			
20	16QAM	1	99	21.81	21.76	21.87	22	2	
20	16QAM	50	0	20.86	20.79	20.71			
20	16QAM	50	24	20.53	20.64	20.62			
20	16QAM	50	50	20.86	20.87	20.72	20	2	
20	16QAM	100	0	20.78	20.75	20.72			
20	64QAM	1	0	20.88	20.74	20.74			
20	64QAM	1	49	20.89	20.81	20.64	22	2	
20	64QAM	1	99	20.87	20.79	20.83			
20	64QAM	50	0	19.89	19.83	19.80			
20	64QAM	50	24	19.83	19.85	19.85	21	3	
20	64QAM	50	50	19.79	19.72	19.67			
20	64QAM	100	0	19.73	19.83	19.81			
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	22.68	22.75	22.82	24	0	
15	QPSK	1	37	22.54	22.65	22.54			
15	QPSK	1	74	22.56	22.62	22.51			
15	QPSK	36	0	21.84	21.71	21.70	23	1	
15	QPSK	36	20	21.83	21.55	21.50			
15	QPSK	36	39	21.83	21.83	21.82			
15	QPSK	75	0	21.82	21.77	21.66	23	1	
15	16QAM	1	0	21.84	21.74	21.62			
15	16QAM	1	37	21.52	21.62	21.52			
15	16QAM	1	74	21.51	21.68	21.51	22	2	
15	16QAM	36	0	20.58	20.70	20.65			
15	16QAM	36	20	20.37	20.51	20.50			
15	16QAM	36	39	20.64	20.51	20.51	22	2	
15	16QAM	75	0	20.74	20.70	20.59			
15	64QAM	1	0	20.55	20.57	20.70			
15	64QAM	1	37	20.58	20.74	20.53	21	3	
15	64QAM	1	74	20.62	20.67	20.58			
15	64QAM	36	0	19.82	19.74	19.67			
15	64QAM	36	20	19.58	19.61	19.59	21	3	
15	64QAM	36	39	19.62	19.66	19.63			
15	64QAM	75	0	19.64	19.74	19.71			
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	22.59	22.72	22.70	24	0	
10	QPSK	1	25	22.57	22.66	22.52			
10	QPSK	1	49	22.64	22.70	22.61			
10	QPSK	25	0	21.56	21.88	21.85	23	1	
10	QPSK	25	12	21.48	21.64	21.45			
10	QPSK	25	25	21.64	21.59	21.54			
10	QPSK	50	0	21.62	21.84	21.70	23	1	
10	16QAM	1	0	21.70	21.73	21.63			
10	16QAM	1	25	21.43	21.68	21.53			
10	16QAM	1	49	21.50	21.61	21.54	22	2	
10	16QAM	25	0	20.80	20.84	20.61			
10	16QAM	25	12	20.40	20.49	20.50			
10	16QAM	25	25	20.58	20.59	20.57	22	2	
10	16QAM	50	0	20.73	20.58	20.69			
10	64QAM	1	0	20.54	20.66	20.57			
10	64QAM	1	25	20.65	20.69	20.47	21	3	
10	64QAM	1	49	20.51	20.73	20.59			
10	64QAM	25	0	19.82	19.75	19.66			
10	64QAM	25	12	19.59	19.55	19.60	21	3	
10	64QAM	25	25	19.75	19.63	19.60			
10	64QAM	50	0	19.68	19.78	19.67			
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	22.64	22.75	22.63	24	0	
5	QPSK	1	12	22.46	22.85	22.56			
5	QPSK	1	24	22.63	22.71	22.55			
5	QPSK	12	0	21.59	21.80	21.72	23	1	
5	QPSK	12	7	21.56	21.60	21.50			
5	QPSK	12	13	21.57	21.58	21.65			
5	QPSK	25	0	21.68	21.65	21.67	23	1	
5	16QAM	1	0	21.58	21.72	21.58			
5	16QAM	1	12	21.43	21.67	21.63			
5	16QAM	1	24	21.49	21.65	21.63	22	2	
5	16QAM	12	0	20.62	20.70	20.64			
5	16QAM	12	7	20.50	20.51	20.45			
5	16QAM	12	13	20.57	20.60	20.67	22	2	
5	16QAM	25	0	20.87	20.87	20.56			
5	64QAM	1	0	20.61	20.70	20.60			
5	64QAM	1	12	20.54	20.72	20.52	22	2	
5	64QAM	1	24	20.52	20.63	20.48			
5	64QAM	12	0	19.55	19.76	19.66			
5	64QAM	12	7	19.52	19.54	19.51	21	3	
5	64QAM	12	13	19.64	19.63	19.51			
5	64QAM	25	0	19.63	19.72	19.68			
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	22.67	22.71	22.61	24	0	
3	QPSK	1	8	22.57	22.69	22.51			
3	QPSK	1	14	22.59	22.71	22.61			
3	QPSK	8	0	21.60	21.75	21.73	23	1	
3	QPSK	8	4	21.45	21.55	21.50			
3	QPSK	8	7	21.62	21.66	21.55			
3	QPSK	15	0	21.69	21.72	21.66	23	1	
3	16QAM	1	0	21.57	21.70	21.64			
3	16QAM	1	8	21.47	21.60	21.59			
3	16QAM	1	14	21.51	21.67	21.58	22	2	
3	16QAM	8	0	20.61	20.63	20.59			
3	16QAM	8	4	20.41	20.49	20.47			
3	16QAM	8	7	20.53	20.55	20.65	22	2	
3	16QAM	15	0	20.73	20.65	20.60			
3	64QAM	1	0	20.59	20.57	20.58			
3	64QAM	1	8	20.66	20.65	20.56	22	2	
3	64QAM	1	14	20.58	20.68	20.54			
3	64QAM	8	0	19.60	19.66	19.64			
3	64QAM	8	4	19.51	19.57	19.52	21	3	
3	64QAM	8	7	19.67	19.61	19.61			
3	64QAM	15	0	19.60	19.77	19.64			
Channel				131979	132322	132669	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.9	1745	1780.2			
1.4	QPSK	1	0	22.62	22.73	22.72	24	0	
1.4	QPSK	1	3	22.48	22.66	22.52			
1.4	QPSK	1	5	22.63	22.70	22.50			
1.4	QPSK	3	0	22.60	22.72	22.70			
1.4	QPSK	3	1	22.47	22.59	22.58			
1.4	QPSK	3	3	22.54	22.67	22.58			
1.4	QPSK	6	0	21.60	21.81	21.64	23	1	
1.4	16QAM	1	0	21.55	21.62	21.47			
1.4	16QAM	1	3	21.60	21.61	21.55			
1.4	16QAM	1	5	21.74	21.68	21.61	23	1	
1.4	16QAM	3	0	21.60	21.71	21.67			
1.4	16QAM	3	1	21.49	21.68	21.59			
1.4	16QAM	3	3	21.57	21.67	21.59	22	2	
1.4	16QAM	6	0	20.61	20.76	20.59			
1.4	64QAM	1	0	20.48	20.47	20.50			
1.4	64QAM	1	3	20.55	20.53	20.65	22	2	
1.4	64QAM	1	5	20.61	20.62	20.67			
1.4	64QAM	3	0	20.55	20.58	20.65			
1.4	64QAM	3	1	20.65	20.73	20.49			
1.4	64QAM	3	3	20.57	20.75	20.56			
1.4	64QAM	6	0	19.65	19.71	19.71			



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Table for Band 2 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). Includes sub-headers for Channel and Frequency (MHz).

Table for Band 4 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). Includes sub-headers for Channel and Frequency (MHz).

Table for Band 25 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). Includes sub-headers for Channel and Frequency (MHz).



Band 66									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132972	132972	132972			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	15.73	15.90	15.98	17	0	
20	QPSK	1	49	15.66	15.68	15.43			
20	QPSK	1	99	15.71	15.59	15.63			
20	QPSK	50	0	15.61	15.69	15.45			
20	QPSK	50	24	15.61	15.62	15.49			
20	QPSK	50	50	15.61	15.66	15.54	17	0	
20	QPSK	100	0	15.61	15.65	15.63			
20	16QAM	1	0	15.63	15.75	15.65			
20	16QAM	1	49	15.62	15.74	15.53	17	0	
20	16QAM	1	99	15.55	15.74	15.76			
20	16QAM	50	0	15.43	15.70	15.48			
20	16QAM	50	24	15.66	15.79	15.68			
20	16QAM	50	50	15.53	15.51	15.58	17	0	
20	16QAM	100	0	15.64	15.62	15.65			
20	64QAM	1	0	15.38	15.51	15.52			
20	64QAM	1	49	15.46	15.53	15.47	17	0	
20	64QAM	1	99	15.46	15.51	15.40			
20	64QAM	50	0	15.64	15.57	15.59			
20	64QAM	50	24	15.57	15.51	15.40			
20	64QAM	50	50	15.56	15.57	15.57	17	0	
20	64QAM	100	0	15.54	15.55	15.46			
Channel				132947	132922	132897			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	15.64	15.67	15.47	17	0	
15	QPSK	1	37	15.58	15.56	15.37			
15	QPSK	1	74	15.62	15.50	15.47			
15	QPSK	36	0	15.44	15.58	15.36			
15	QPSK	36	20	15.46	15.47	15.35	17	0	
15	QPSK	36	39	15.51	15.52	15.45			
15	QPSK	75	0	15.54	15.53	15.49			
15	16QAM	1	0	15.52	15.72	15.52			
15	16QAM	1	37	15.57	15.61	15.42	17	0	
15	16QAM	1	74	15.42	15.67	15.64			
15	16QAM	36	0	15.39	15.61	15.36			
15	16QAM	36	20	15.44	15.61	15.56	17	0	
15	16QAM	36	39	15.39	15.38	15.50			
15	16QAM	75	0	15.53	15.51	15.50			
15	64QAM	1	0	15.32	15.48	15.48			
15	64QAM	1	37	15.37	15.44	15.39	17	0	
15	64QAM	1	74	15.36	15.47	15.36			
15	64QAM	36	0	15.52	15.48	15.52			
15	64QAM	36	20	15.44	15.43	15.29	17	0	
15	64QAM	36	39	15.45	15.43	15.48			
15	64QAM	75	0	15.47	15.40	15.44			
Channel				132922	132922	132897			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	15.61	15.68	15.48	17	0	
10	QPSK	1	25	15.64	15.62	15.34			
10	QPSK	1	49	15.60	15.52	15.49			
10	QPSK	25	0	15.48	15.56	15.40			
10	QPSK	25	12	15.51	15.50	15.36	17	0	
10	QPSK	25	25	15.51	15.52	15.41			
10	QPSK	50	0	15.55	15.51	15.51			
10	16QAM	1	0	15.49	15.65	15.48			
10	16QAM	1	25	15.59	15.63	15.47	17	0	
10	16QAM	1	49	15.48	15.74	15.63			
10	16QAM	25	0	15.32	15.55	15.40			
10	16QAM	25	12	15.48	15.70	15.54	17	0	
10	16QAM	25	25	15.46	15.45	15.45			
10	16QAM	50	0	15.48	15.50	15.60			
10	64QAM	1	0	15.25	15.45	15.39			
10	64QAM	1	25	15.31	15.43	15.39	17	0	
10	64QAM	1	49	15.39	15.43	15.34			
10	64QAM	25	0	15.50	15.54	15.45			
10	64QAM	25	12	15.47	15.50	15.27	17	0	
10	64QAM	25	25	15.46	15.47	15.51			
10	64QAM	50	0	15.40	15.37	15.44			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	15.66	15.65	15.47	17	0	
5	QPSK	1	12	15.58	15.58	15.40			
5	QPSK	1	24	15.66	15.50	15.53			
5	QPSK	12	0	15.54	15.52	15.44			
5	QPSK	12	7	15.44	15.50	15.38	17	0	
5	QPSK	12	13	15.55	15.53	15.46			
5	QPSK	25	0	15.50	15.53	15.53			
5	16QAM	1	0	15.48	15.73	15.56			
5	16QAM	1	12	15.54	15.63	15.47	17	0	
5	16QAM	1	24	15.38	15.73	15.64			
5	16QAM	12	0	15.38	15.60	15.39			
5	16QAM	12	7	15.48	15.70	15.52	17	0	
5	16QAM	12	13	15.39	15.47	15.52			
5	16QAM	25	0	15.52	15.45	15.54			
5	64QAM	1	0	15.28	15.48	15.43			
5	64QAM	1	12	15.40	15.50	15.41	17	0	
5	64QAM	1	24	15.39	15.45	15.38			
5	64QAM	12	0	15.49	15.47	15.50			
5	64QAM	12	7	15.46	15.41	15.29	17	0	
5	64QAM	12	13	15.48	15.41	15.47			
5	64QAM	25	0	15.40	15.45	15.45			
Channel				131887	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	15.62	15.73	15.55	17	0	
3	QPSK	1	8	15.64	15.61	15.32			
3	QPSK	1	14	15.52	15.46	15.49			
3	QPSK	8	0	15.50	15.52	15.43			
3	QPSK	8	4	15.48	15.46	15.41	17	0	
3	QPSK	8	7	15.54	15.54	15.49			
3	QPSK	15	0	15.53	15.50	15.51			
3	16QAM	1	0	15.63	15.68	15.56			
3	16QAM	1	8	15.55	15.65	15.46	17	0	
3	16QAM	1	14	15.39	15.68	15.63			
3	16QAM	8	0	15.30	15.53	15.40			
3	16QAM	8	4	15.46	15.64	15.51	17	0	
3	16QAM	8	7	15.40	15.41	15.52			
3	16QAM	15	0	15.48	15.54	15.55			
3	64QAM	1	0	15.32	15.40	15.41			
3	64QAM	1	8	15.38	15.47	15.40	17	0	
3	64QAM	1	14	15.37	15.43	15.30			
3	64QAM	8	0	15.53	15.53	15.48			
3	64QAM	8	4	15.45	15.49	15.27	17	0	
3	64QAM	8	7	15.44	15.43	15.50			
3	64QAM	15	0	15.49	15.44	15.41			
Channel				131979	132322	132665			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	15.60	15.73	15.49	17	0	
1.4	QPSK	1	3	15.67	15.58	15.32			
1.4	QPSK	1	5	15.53	15.51	15.53			
1.4	QPSK	3	0	15.51	15.57	15.39			
1.4	QPSK	3	1	15.43	15.53	15.37			
1.4	QPSK	3	3	15.54	15.57	15.41			
1.4	QPSK	6	0	15.52	15.55	15.56	17	0	
1.4	16QAM	1	0	15.52	15.67	15.54			
1.4	16QAM	1	3	15.63	15.61	15.51			
1.4	16QAM	1	5	15.47	15.69	15.65	17	0	
1.4	16QAM	3	0	15.36	15.56	15.35			
1.4	16QAM	3	1	15.42	15.69	15.53			
1.4	16QAM	3	3	15.37	15.37	15.53			
1.4	16QAM	6	0	15.55	15.53	15.52	17	0	
1.4	64QAM	1	0	15.32	15.40	15.39			
1.4	64QAM	1	3	15.39	15.51	15.36			
1.4	64QAM	1	5	15.46	15.42	15.38	17	0	
1.4	64QAM	3	0	15.54	15.49	15.44			
1.4	64QAM	3	1	15.43	15.47	15.34			
1.4	64QAM	3	3	15.44	15.47	15.53			
1.4	64QAM	6	0	15.45	15.38	15.37	17	0	



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Band 2 Ant4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	15.94	15.98	15.70	17	0				
20	QPSK	1	49	15.79	15.80	15.55						
20	QPSK	1	99	15.77	15.68	15.69						
20	QPSK	50	0	15.69	15.74	15.59						
20	QPSK	50	24	15.66	15.72	15.64						
20	QPSK	50	50	15.71	15.73	15.54	17	0				
20	QPSK	100	0	15.73	15.73	15.72						
20	16QAM	1	0	15.72	15.88	15.72						
20	16QAM	1	49	15.77	15.81	15.67						
20	16QAM	1	99	15.63	15.91	15.81						
20	16QAM	50	0	15.55	15.76	15.59						
20	16QAM	50	24	15.67	15.86	15.76						
20	16QAM	50	50	15.61	15.62	15.70	17	0				
20	16QAM	100	0	15.71	15.70	15.75						
20	8QAM	1	0	15.50	15.64	15.63						
20	8QAM	1	49	15.55	15.66	15.61						
20	8QAM	1	99	15.61	15.65	15.54						
20	8QAM	50	0	15.70	15.70	15.68						
20	8QAM	50	24	15.68	15.66	15.60						
20	8QAM	50	50	15.68	15.63	15.69	17	0				
20	8QAM	100	0	15.64	15.63	15.61						
Channel												
Frequency (MHz)												
15	QPSK	1	0	15.80	15.68	15.45	17	0				
15	QPSK	1	37	15.64	15.56	15.34						
15	QPSK	1	74	15.57	15.45	15.51						
15	QPSK	36	0	15.52	15.57	15.39						
15	QPSK	36	20	15.48	15.51	15.38	17	0				
15	QPSK	36	39	15.47	15.48	15.35						
15	QPSK	75	0	15.58	15.49	15.53						
15	16QAM	1	0	15.51	15.64	15.55						
15	16QAM	1	37	15.55	15.63	15.46	17	0				
15	16QAM	1	74	15.44	15.67	15.65						
15	16QAM	36	0	15.39	15.53	15.36						
15	16QAM	36	20	15.45	15.65	15.55						
15	16QAM	36	39	15.40	15.43	15.50	17	0				
15	16QAM	75	0	15.51	15.45	15.57						
15	8QAM	1	0	15.33	15.46	15.45						
15	8QAM	1	37	15.40	15.49	15.43						
15	8QAM	1	74	15.38	15.49	15.31						
15	8QAM	36	0	15.49	15.51	15.49	17	0				
15	8QAM	36	20	15.46	15.43	15.34						
15	8QAM	36	39	15.51	15.42	15.50						
15	8QAM	75	0	15.44	15.43	15.39						
Channel												
Frequency (MHz)												
10	QPSK	1	0	15.68	15.66	15.49	17	0				
10	QPSK	1	25	15.62	15.58	15.31						
10	QPSK	1	49	15.58	15.44	15.54						
10	QPSK	25	0	15.49	15.55	15.36						
10	QPSK	25	12	15.46	15.54	15.39	17	0				
10	QPSK	25	25	15.51	15.49	15.44						
10	QPSK	50	0	15.56	15.48	15.55						
10	16QAM	1	0	15.53	15.73	15.50						
10	16QAM	1	25	15.53	15.63	15.47	17	0				
10	16QAM	1	49	15.44	15.71	15.60						
10	16QAM	25	0	15.39	15.60	15.35						
10	16QAM	25	12	15.50	15.71	15.56						
10	16QAM	25	25	15.61	15.41	15.47	17	0				
10	16QAM	50	0	15.46	15.53	15.52						
10	8QAM	1	0	15.26	15.42	15.39						
10	8QAM	1	25	15.34	15.43	15.44						
10	8QAM	1	49	15.45	15.49	15.32						
10	8QAM	25	0	15.51	15.50	15.45	17	0				
10	8QAM	25	12	15.49	15.48	15.32						
10	8QAM	25	25	15.52	15.40	15.49						
10	8QAM	50	0	15.46	15.35	15.42						
Channel												
Frequency (MHz)												
5	QPSK	1	0	15.64	15.68	15.48	17	0				
5	QPSK	1	12	15.58	15.65	15.40						
5	QPSK	1	24	15.55	15.51	15.45						
5	QPSK	12	0	15.46	15.54	15.40						
5	QPSK	12	7	15.46	15.50	15.36	17	0				
5	QPSK	12	13	15.55	15.56	15.47						
5	QPSK	25	0	15.49	15.57	15.47						
5	16QAM	1	0	15.51	15.69	15.52						
5	16QAM	1	12	15.60	15.61	15.49	17	0				
5	16QAM	1	24	15.39	15.70	15.61						
5	16QAM	12	0	15.35	15.52	15.41						
5	16QAM	12	7	15.49	15.65	15.55						
5	16QAM	12	13	15.38	15.41	15.49	17	0				
5	16QAM	25	0	15.51	15.52	15.51						
5	8QAM	1	0	15.30	15.43	15.39						
5	8QAM	1	12	15.39	15.50	15.41						
5	8QAM	1	24	15.46	15.42	15.34						
5	8QAM	12	0	15.46	15.49	15.44	17	0				
5	8QAM	12	7	15.52	15.43	15.31						
5	8QAM	12	13	15.45	15.47	15.53						
5	8QAM	25	0	15.44	15.37	15.38						
Channel												
Frequency (MHz)												
3	QPSK	1	0	15.64	15.67	15.46	17	0				
3	QPSK	1	8	15.59	15.56	15.32						
3	QPSK	1	14	15.57	15.52	15.51						
3	QPSK	8	0	15.50	15.55	15.38						
3	QPSK	8	4	15.46	15.43	15.43	17	0				
3	QPSK	8	7	15.47	15.53	15.41						
3	QPSK	15	0	15.40	15.56	15.56						
3	16QAM	1	0	15.48	15.64	15.52						
3	16QAM	1	8	15.59	15.65	15.46	17	0				
3	16QAM	1	14	15.44	15.68	15.57						
3	16QAM	8	0	15.36	15.56	15.43						
3	16QAM	8	4	15.51	15.95	15.61						
3	16QAM	8	7	15.37	15.39	15.46	17	0				
3	16QAM	15	0	15.46	15.52	15.59						
3	8QAM	1	0	15.33	15.42	15.43						
3	8QAM	1	8	15.37	15.50	15.40						
3	8QAM	1	14	15.43	15.41	15.38	17	0				
3	8QAM	8	0	15.50	15.47	15.53						
3	8QAM	8	4	15.43	15.43	15.36						
3	8QAM	8	7	15.50	15.48	15.52						
3	8QAM	15	0	15.44	15.38	15.40						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	15.62	15.66	15.50	17	0				
1.4	QPSK	1	3	15.57	15.62	15.33						
1.4	QPSK	1	5	15.53	15.46	15.49						
1.4	QPSK	3	0	15.48	15.58	15.41						
1.4	QPSK	3	1	15.46	15.47	15.39	17	0				
1.4	QPSK	3	3	15.46	15.58	15.45						
1.4	QPSK	6	0	15.55	15.56	15.50						
1.4	16QAM	1	0	15.57	15.73	15.56						
1.4	16QAM	1	3	15.59	15.56	15.49	17	0				
1.4	16QAM	1	5	15.47	15.67	15.62						
1.4	16QAM	3	0	15.38	15.56	15.38						
1.4	16QAM	3	1	15.50	15.53	15.56						
1.4	16QAM	3	3	15.41	15.43	15.45	17	0				
1.4	16QAM	6	0	15.55	15.51	15.60						
1.4	8QAM	1	0	15.33	15.46	15.44						
1.4	8QAM	1	3	15.39	15.46	15.36						
1.4	8QAM	1	5	15.36	15.49	15.37	17	0				
1.4	8QAM	3	0	15.50	15.49	15.44						
1.4	8QAM	3	1	15.49	15.44	15.38						
1.4	8QAM	3	3	15.49	15.42	15.48						
1.4	8QAM	6	0	15.47	15.45	15.40						

Band 4 Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.03	16.05	15.93	17.5	0		
20	QPSK	1	49	15.95	16.05	15.76				
20	QPSK	1	99	16.02	15.93	15.87				
20	QPSK	50	0	15.92	15.92	15.83				
20	QPSK	50	24	15.81	15.89	15.84	17.5	0		
20	QPSK	50	50	15.91	15.92	15.88				
20	QPSK	100	0	15.93	15.91	15.91				
20	16QAM	1	0	15.90	15.95	15.96				
20	16QAM	1	49	16.01	16.00	15.85	17.5	0		
20	16QAM	1	99	15.86	16.00	15.97				
20	16QAM	50	0	15.74	15.95	15.78				
20	16QAM	50	24	15.88	1					



Band 66 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				132972	132922	132972		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	16.29	16.43	16.22	17.5	0
20	QPSK	1	49	16.30	16.32	15.99		
20	QPSK	1	99	16.28	16.21	16.18		
20	QPSK	50	0	16.19	16.26	16.03		
20	QPSK	50	24	16.18	16.19	16.12		
20	QPSK	50	50	16.19	16.25	16.17		
20	QPSK	100	0	16.20	16.26	16.24		
20	16QAM	1	0	16.27	16.34	16.26		
20	16QAM	1	49	16.24	16.37	16.10		
20	16QAM	1	99	16.15	16.37	16.40		
20	16QAM	50	0	16.03	16.34	16.11		
20	16QAM	50	24	16.19	16.41	16.32		
20	16QAM	50	50	16.16	16.15	16.20		
20	16QAM	100	0	16.23	16.19	16.30		
20	64QAM	1	0	16.02	16.13	16.15		
20	64QAM	1	49	16.02	16.16	16.09		
20	64QAM	1	99	16.06	16.07	15.97		
20	64QAM	50	0	16.25	16.13	16.22		
20	64QAM	50	24	16.18	16.12	16.04		
20	64QAM	50	50	16.19	16.20	16.22		
20	64QAM	100	0	16.17	16.17	16.08		
Channel				132947	132922	132997		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	16.14	16.25	15.98	17.5	0
15	QPSK	1	37	16.06	16.12	15.83		
15	QPSK	1	74	16.07	15.95	16.05		
15	QPSK	36	0	16.04	16.06	15.85		
15	QPSK	36	20	16.05	16.04	15.86		
15	QPSK	36	39	15.96	16.07	15.91		
15	QPSK	75	0	16.00	16.06	16.08		
15	16QAM	1	0	16.04	16.13	16.10		
15	16QAM	1	37	16.06	16.11	15.95		
15	16QAM	1	74	15.98	16.17	16.14		
15	16QAM	36	0	15.82	16.11	15.90		
15	16QAM	36	20	15.95	16.17	16.07		
15	16QAM	36	39	15.91	15.94	15.94		
15	16QAM	75	0	16.01	16.07	16.04		
15	64QAM	1	0	15.74	15.86	15.93		
15	64QAM	1	37	15.89	15.96	15.83		
15	64QAM	1	74	15.86	15.87	15.76		
15	64QAM	36	0	16.02	15.97	16.01		
15	64QAM	36	20	16.02	15.87	15.81		
15	64QAM	36	39	16.00	15.99	15.95		
15	64QAM	75	0	15.96	15.90	15.82		
Channel				132922	132922	132922		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	16.18	16.24	15.94	17.5	0
10	QPSK	1	25	16.11	16.06	15.87		
10	QPSK	1	49	16.16	16.03	16.06		
10	QPSK	25	0	16.05	16.08	15.83		
10	QPSK	25	12	16.06	16.00	15.91		
10	QPSK	25	25	16.05	16.10	15.94		
10	QPSK	50	0	15.96	16.07	15.98		
10	16QAM	1	0	16.00	16.11	16.05		
10	16QAM	1	25	16.07	16.19	15.97		
10	16QAM	1	49	15.97	16.10	16.17		
10	16QAM	25	0	15.86	16.10	15.90		
10	16QAM	25	12	15.99	16.18	16.04		
10	16QAM	25	25	15.96	15.94	16.00		
10	16QAM	50	0	16.05	15.98	16.06		
10	64QAM	1	0	15.75	15.92	15.89		
10	64QAM	1	25	15.83	15.95	15.87		
10	64QAM	1	49	15.89	15.92	15.84		
10	64QAM	25	0	15.99	15.98	15.94		
10	64QAM	25	12	15.93	15.90	15.83		
10	64QAM	25	25	15.92	15.97	15.96		
10	64QAM	50	0	15.93	15.93	15.84		
Channel				131997	132922	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	16.09	16.20	15.95	17.5	0
5	QPSK	1	12	16.10	16.11	15.86		
5	QPSK	1	24	16.07	15.97	16.07		
5	QPSK	12	0	16.06	16.13	15.85		
5	QPSK	12	7	15.99	16.06	15.86		
5	QPSK	12	13	15.97	16.10	15.96		
5	QPSK	25	0	16.03	16.04	15.98		
5	16QAM	1	0	16.04	16.20	16.08		
5	16QAM	1	12	16.02	16.12	15.90		
5	16QAM	1	24	15.92	16.10	16.14		
5	16QAM	12	0	15.86	16.15	15.91		
5	16QAM	12	7	16.01	16.14	16.05		
5	16QAM	12	13	15.98	15.99	15.94		
5	16QAM	25	0	16.05	16.05	16.02		
5	64QAM	1	0	15.76	15.94	15.90		
5	64QAM	1	12	15.81	15.97	15.91		
5	64QAM	1	24	15.82	15.94	15.83		
5	64QAM	12	0	16.05	15.99	15.98		
5	64QAM	12	7	15.93	15.93	15.81		
5	64QAM	12	13	15.99	16.01	16.00		
5	64QAM	25	0	15.96	15.92	15.85		
Channel				131887	132922	132657		
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	16.15	16.21	15.98	17.5	0
3	QPSK	1	8	16.09	16.10	15.87		
3	QPSK	1	14	16.11	16.02	16.03		
3	QPSK	8	0	16.04	16.09	15.86		
3	QPSK	8	4	15.97	16.00	15.85		
3	QPSK	8	7	16.03	16.10	15.95		
3	QPSK	15	0	15.97	16.08	16.02		
3	16QAM	1	0	16.00	16.12	16.06		
3	16QAM	1	8	16.01	16.14	15.97		
3	16QAM	1	14	15.96	16.11	16.21		
3	16QAM	8	0	15.81	16.09	15.88		
3	16QAM	8	4	16.00	16.22	16.04		
3	16QAM	8	7	15.95	15.95	15.97		
3	16QAM	15	0	16.08	16.05	16.02		
3	64QAM	1	0	15.78	15.89	15.93		
3	64QAM	1	8	15.83	15.96	15.87		
3	64QAM	1	14	15.83	15.92	15.83		
3	64QAM	8	0	16.09	15.99	15.99		
3	64QAM	8	4	15.93	15.90	15.83		
3	64QAM	8	7	15.98	15.96	16.00		
3	64QAM	15	0	15.98	15.95	15.87		
Channel				131979	132922	132665		
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	16.17	16.23	15.96	17.5	0
1.4	QPSK	1	3	16.02	16.07	15.84		
1.4	QPSK	1	5	16.11	15.96	16.01		
1.4	QPSK	3	0	16.03	16.10	15.90		
1.4	QPSK	3	1	16.06	15.99	15.98		
1.4	QPSK	3	3	16.03	16.08	15.94		
1.4	QPSK	6	0	15.98	16.09	15.99		
1.4	16QAM	1	0	16.06	16.13	16.10		
1.4	16QAM	1	3	16.02	16.18	15.95		
1.4	16QAM	1	5	15.97	16.11	16.12		
1.4	16QAM	3	0	15.78	16.06	15.87		
1.4	16QAM	3	1	16.00	16.22	16.06		
1.4	16QAM	3	3	15.90	15.92	15.95		
1.4	16QAM	6	0	16.01	16.06	16.09		
1.4	64QAM	1	0	15.74	15.87	15.96		
1.4	64QAM	1	3	15.82	15.90	15.90		
1.4	64QAM	1	5	15.89	15.89	15.84		
1.4	64QAM	3	0	16.05	16.00	16.00		
1.4	64QAM	3	1	15.99	15.94	15.79		
1.4	64QAM	3	3	15.96	15.95	15.96		
1.4	64QAM	6	0	15.97	15.91	15.90		



EC16 Power for Other PA

Band 2 Ant4

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 multiple channel frequency blocks for various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM.

Band 4 Ant4

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 multiple channel frequency blocks for various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM.

Band 25 Ant4

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 multiple channel frequency blocks for various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM.



Band 66 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	19.19	19.29	19.99	20	0
20	QPSK	1	49	19.09	19.17	18.79		
20	QPSK	1	99	19.05	18.97	19.08	20	0
20	QPSK	50	0	18.94	19.14	18.81		
20	QPSK	50	24	18.93	19.08	18.97	20	0
20	QPSK	50	50	19.03	19.13	19.01		
20	QPSK	100	0	19.05	19.09	19.11	20	0
20	16QAM	1	0	19.14	19.18	19.03		
20	16QAM	1	49	19.07	19.26	18.86	20	0
20	16QAM	1	99	19.01	19.24	19.17		
20	16QAM	50	0	18.84	19.11	18.94	20	0
20	16QAM	50	24	18.95	19.18	19.14		
20	16QAM	50	50	18.91	18.90	18.96	20	0
20	16QAM	100	0	19.11	18.96	19.15		
20	64QAM	1	0	18.97	18.93	18.96	20	0
20	64QAM	1	49	18.80	18.98	18.92		
20	64QAM	1	99	18.85	18.96	18.77	20	0
20	64QAM	50	0	19.02	18.91	18.97		
20	64QAM	50	24	19.06	18.93	18.86	20	0
20	64QAM	50	50	19.08	19.02	19.12		
20	64QAM	100	0	19.05	19.08	19.93		
Channel				132947	132322	132997		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	19.07	19.13	18.87	20	0
15	QPSK	1	37	18.97	18.94	18.63		
15	QPSK	1	74	18.85	18.80	18.84	20	0
15	QPSK	36	0	18.69	18.90	18.60		
15	QPSK	36	20	18.73	18.88	18.77	20	0
15	QPSK	36	39	18.92	18.89	18.76		
15	QPSK	75	0	18.91	18.97	18.95	20	0
15	16QAM	1	0	18.98	19.07	18.78		
15	16QAM	1	37	18.86	19.06	18.74	20	0
15	16QAM	1	74	18.83	19.09	18.99		
15	16QAM	36	0	18.71	18.90	18.75	20	0
15	16QAM	36	20	18.85	18.96	18.91		
15	16QAM	36	39	18.70	18.78	18.75	20	0
15	16QAM	75	0	18.98	18.73	19.04		
15	64QAM	1	0	18.70	18.82	18.85	20	0
15	64QAM	1	37	18.61	18.77	18.67		
15	64QAM	1	74	18.73	18.79	18.64	20	0
15	64QAM	36	0	18.91	18.69	18.85		
15	64QAM	36	20	18.85	18.71	18.74	20	0
15	64QAM	36	39	18.88	18.86	18.89		
15	64QAM	75	0	18.88	18.94	18.93		
Channel				132922	132322	132922		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	18.95	19.11	18.86	20	0
10	QPSK	1	25	18.98	18.95	18.68		
10	QPSK	1	49	18.87	18.79	18.94	20	0
10	QPSK	25	0	18.72	18.93	18.70		
10	QPSK	25	12	18.79	18.98	18.77	20	0
10	QPSK	25	25	18.91	19.03	18.92		
10	QPSK	50	0	18.86	18.86	19.01	20	0
10	16QAM	1	0	18.94	19.00	18.84		
10	16QAM	1	25	18.88	19.15	18.74	20	0
10	16QAM	1	49	18.87	19.13	19.04		
10	16QAM	25	0	18.66	18.88	18.79	20	0
10	16QAM	25	12	18.82	19.04	18.94		
10	16QAM	25	25	18.78	18.73	18.76	20	0
10	16QAM	50	0	18.98	18.78	19.00		
10	64QAM	1	0	18.70	18.78	18.85	20	0
10	64QAM	1	25	18.65	18.80	18.68		
10	64QAM	1	49	18.70	18.83	18.63	20	0
10	64QAM	25	0	18.91	18.79	18.77		
10	64QAM	25	12	18.89	18.81	18.68	20	0
10	64QAM	25	25	18.94	18.86	18.97		
10	64QAM	50	0	18.95	18.87	18.68		
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	18.96	19.07	18.86	20	0
5	QPSK	1	12	18.96	19.01	18.62		
5	QPSK	1	24	18.87	18.76	18.94	20	0
5	QPSK	12	0	18.78	18.97	18.64		
5	QPSK	12	7	18.70	18.90	18.84	20	0
5	QPSK	12	13	18.91	18.90	18.93		
5	QPSK	25	0	18.83	18.90	18.97	20	0
5	16QAM	1	0	18.99	18.98	18.79		
5	16QAM	1	12	18.95	19.08	18.71	20	0
5	16QAM	1	24	18.79	19.06	18.95		
5	16QAM	12	0	18.71	18.88	18.74	20	0
5	16QAM	12	7	18.83	18.94	19.02		
5	16QAM	12	13	18.79	18.71	18.94	20	0
5	16QAM	25	0	19.00	18.76	19.03		
5	64QAM	1	0	18.72	18.69	18.85	20	0
5	64QAM	1	12	18.56	18.88	18.90		
5	64QAM	1	24	18.73	18.72	18.90	20	0
5	64QAM	12	0	18.86	18.76	18.85		
5	64QAM	12	7	18.86	18.81	18.99	20	0
5	64QAM	12	13	18.87	18.78	19.02		
5	64QAM	25	0	18.94	18.95	18.88		
Channel				131887	132322	132657		
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	18.98	19.05	18.81	20	0
3	QPSK	1	8	18.84	19.00	18.59		
3	QPSK	1	14	18.87	18.75	18.86	20	0
3	QPSK	8	0	18.74	18.92	18.58		
3	QPSK	8	4	18.76	18.95	18.72	20	0
3	QPSK	8	7	18.90	19.00	18.80		
3	QPSK	15	0	18.83	18.90	18.89	20	0
3	16QAM	1	0	19.00	19.06	18.90		
3	16QAM	1	8	18.90	19.12	18.66	20	0
3	16QAM	1	14	18.87	19.10	18.93		
3	16QAM	8	0	18.68	18.87	18.73	20	0
3	16QAM	8	4	18.78	18.95	19.02		
3	16QAM	8	7	18.66	18.70	18.78	20	0
3	16QAM	15	0	18.90	18.82	18.93		
3	64QAM	1	0	18.75	18.88	18.71	20	0
3	64QAM	1	8	18.63	18.82	18.71		
3	64QAM	1	14	18.61	18.85	18.54	20	0
3	64QAM	8	0	18.86	18.76	18.78		
3	64QAM	8	4	18.94	18.89	18.70	20	0
3	64QAM	8	7	18.85	18.86	18.92		
3	64QAM	15	0	18.84	18.87	18.82		
Channel				131979	132322	132669		
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	18.98	19.09	18.83	20	0
1.4	QPSK	1	3	18.87	19.04	18.63		
1.4	QPSK	1	5	18.87	18.76	18.83	20	0
1.4	QPSK	3	0	18.82	19.04	18.58		
1.4	QPSK	3	1	18.81	18.86	18.92	20	0
1.4	QPSK	3	3	18.84	18.90	18.80		
1.4	QPSK	6	0	18.92	18.97	18.93	20	0
1.4	16QAM	1	0	19.03	19.07	18.87		
1.4	16QAM	1	3	18.83	19.11	18.70	20	0
1.4	16QAM	1	5	18.83	19.08	18.99		
1.4	16QAM	3	0	18.82	18.88	18.83	20	0
1.4	16QAM	3	1	18.84	18.95	19.02		
1.4	16QAM	3	3	18.72	18.87	18.72	20	0
1.4	16QAM	6	0	18.86	18.75	18.99		
1.4	64QAM	1	0	18.66	18.80	18.80	20	0
1.4	64QAM	1	3	18.84	18.82	18.72		
1.4	64QAM	1	5	18.67	18.73	18.55	20	0
1.4	64QAM	3	0	18.81	18.86	18.81		
1.4	64QAM	3	1	18.84	18.70	18.62	20	0
1.4	64QAM	3	3	18.94	18.87	19.02		
1.4	64QAM	6	0	18.95	18.83	18.81	20	0



ECI7 Power for Other PA

Table for Band 2 Ant4. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), and MPR (dB). It lists various QPSK and 16QAM configurations across multiple channels.

Table for Band 4 Ant0. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), and MPR (dB). It lists various QPSK and 16QAM configurations across multiple channels.

Table for Band 25 Ant0. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), and MPR (dB). It lists various QPSK and 16QAM configurations across multiple channels.



Band 66 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 132072	Power Middle Ch. / Freq. 132322	Power High Ch. / Freq. 132572	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	1745	1770			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	14.58	14.69	14.38	15.5	0	
20	QPSK	1	49	14.49	14.57	14.19			
20	QPSK	1	99	14.45	14.37	14.48			
20	QPSK	50	0	14.34	14.54	14.21			
20	QPSK	50	24	14.33	14.48	14.37	15.5	0	
20	QPSK	50	50	14.43	14.53	14.41			
20	QPSK	100	0	14.45	14.49	14.51			
20	16QAM	1	0	14.54	14.58	14.43	15.5	0	
20	16QAM	1	49	14.47	14.66	14.26			
20	16QAM	1	99	14.41	14.64	14.57			
20	16QAM	50	0	14.24	14.51	14.34			
20	16QAM	50	24	14.35	14.58	14.54	15.5	0	
20	16QAM	50	50	14.31	14.30	14.36			
20	16QAM	100	0	14.51	14.38	14.55			
20	64QAM	1	0	14.27	14.33	14.36			
20	64QAM	1	49	14.20	14.38	14.32	15.5	0	
20	64QAM	1	99	14.25	14.36	14.17			
20	64QAM	50	0	14.42	14.31	14.37			
20	64QAM	50	24	14.46	14.33	14.26	15.5	0	
20	64QAM	50	50	14.48	14.42	14.52			
20	64QAM	100	0	14.45	14.46	14.33			
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	14.32	14.44	14.24	15.5	0	
15	QPSK	1	37	14.36	14.29	14.07			
15	QPSK	1	74	14.26	14.21	14.13			
15	QPSK	36	0	14.17	14.27	14.07	15.5	0	
15	QPSK	36	20	14.14	14.20	14.09			
15	QPSK	36	39	14.14	14.33	14.18			
15	QPSK	75	0	14.30	14.26	14.23			
15	16QAM	1	0	14.35	14.37	14.29	15.5	0	
15	16QAM	1	37	14.22	14.35	14.13			
15	16QAM	1	74	14.13	14.37	14.36			
15	16QAM	36	0	14.05	14.42	14.15	15.5	0	
15	16QAM	36	20	14.23	14.48	14.41			
15	16QAM	36	39	14.12	14.11	14.26			
15	16QAM	75	0	14.19	14.25	14.27			
15	64QAM	1	0	14.10	14.09	14.23	15.5	0	
15	64QAM	1	37	14.00	14.11	14.18			
15	64QAM	1	74	14.10	14.11	13.88			
15	64QAM	36	0	14.25	14.12	14.19	15.5	0	
15	64QAM	36	20	14.21	14.13	14.10			
15	64QAM	36	39	14.29	14.19	14.26			
15	64QAM	75	0	14.12	14.24	14.11			
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	14.37	14.48	14.29	15.5	0	
10	QPSK	1	25	14.31	14.32	14.01			
10	QPSK	1	49	14.37	14.17	14.23			
10	QPSK	25	0	14.18	14.24	14.06	15.5	0	
10	QPSK	25	12	14.14	14.17	14.12			
10	QPSK	25	25	14.24	14.20	14.19			
10	QPSK	50	0	14.25	14.33	14.30	15.5	0	
10	16QAM	1	0	14.37	14.36	14.27			
10	16QAM	1	25	14.30	14.40	14.07	15.5	0	
10	16QAM	1	49	14.17	14.35	14.41			
10	16QAM	25	0	14.09	14.32	14.19	15.5	0	
10	16QAM	25	12	14.26	14.42	14.37			
10	16QAM	25	25	14.18	14.25	14.27			
10	64QAM	1	0	14.30	14.27	14.38	15.5	0	
10	64QAM	1	25	14.04	14.22	14.21			
10	64QAM	1	25	14.06	14.21	14.07	15.5	0	
10	64QAM	1	49	14.03	14.08	13.96			
10	64QAM	25	0	14.26	14.10	14.24	15.5	0	
10	64QAM	25	12	14.22	14.16	14.07			
10	64QAM	25	25	14.21	14.16	14.29			
10	64QAM	50	0	14.16	14.14	14.08			
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	14.38	14.46	14.30	15.5	0	
5	QPSK	1	12	14.33	14.28	14.04			
5	QPSK	1	24	14.38	14.26	14.26			
5	QPSK	12	0	14.27	14.24	14.05	15.5	0	
5	QPSK	12	7	14.23	14.25	14.14			
5	QPSK	12	13	14.29	14.29	14.18			
5	QPSK	25	0	14.29	14.31	14.26	15.5	0	
5	16QAM	1	0	14.23	14.42	14.23			
5	16QAM	1	12	14.32	14.36	14.10	15.5	0	
5	16QAM	1	24	14.25	14.33	14.39			
5	16QAM	12	0	14.04	14.39	14.21	15.5	0	
5	16QAM	12	7	14.28	14.38	14.33			
5	16QAM	12	13	14.12	14.23	14.27			
5	16QAM	25	0	14.22	14.16	14.30	15.5	0	
5	64QAM	1	0	14.12	14.09	14.11	15.5	0	
5	64QAM	1	12	13.99	14.18	14.16			
5	64QAM	1	24	14.12	14.12	13.94			
5	64QAM	12	0	14.20	14.12	14.23	15.5	0	
5	64QAM	12	7	14.21	14.13	14.04			
5	64QAM	12	13	14.16	14.21	14.19			
5	64QAM	25	0	14.14	14.20	14.13			
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	14.25	14.50	14.30	15.5	0	
3	QPSK	1	8	14.39	14.39	14.02			
3	QPSK	1	14	14.35	14.31	14.15			
3	QPSK	8	0	14.21	14.34	14.03	15.5	0	
3	QPSK	8	4	14.28	14.25	14.15			
3	QPSK	8	7	14.17	14.31	14.18			
3	QPSK	15	0	14.20	14.36	14.25	15.5	0	
3	16QAM	1	0	14.32	14.32	14.27			
3	16QAM	1	8	14.27	14.33	14.15	15.5	0	
3	16QAM	1	14	14.13	14.40	14.38			
3	16QAM	8	0	14.01	14.33	14.08	15.5	0	
3	16QAM	8	4	14.24	14.43	14.29			
3	16QAM	8	7	14.13	14.20	14.17			
3	16QAM	15	0	14.19	14.16	14.40	15.5	0	
3	64QAM	1	0	14.03	14.22	14.23	15.5	0	
3	64QAM	1	8	14.01	14.24	14.08			
3	64QAM	1	14	14.10	14.16	13.93			
3	64QAM	8	0	14.32	14.14	14.29	15.5	0	
3	64QAM	8	4	14.26	14.14	14.14			
3	64QAM	8	7	14.29	14.17	14.28			
3	64QAM	15	0	14.15	14.17	14.13			
Channel				131819	132322	132669	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.9	1745	1782.2			
1.4	QPSK	1	0	14.25	14.41	14.22	15.5	0	
1.4	QPSK	1	3	14.33	14.28	14.01			
1.4	QPSK	1	5	14.26	14.26	14.27			
1.4	QPSK	3	0	14.24	14.33	14.10	15.5	0	
1.4	QPSK	3	1	14.24	14.19	14.09			
1.4	QPSK	3	3	14.29	14.24	14.14			
1.4	QPSK	6	0	14.26	14.26	14.25	15.5	0	
1.4	16QAM	1	0	14.35	14.31	14.25	15.5	0	
1.4	16QAM	1	3	14.23	14.39	14.08			
1.4	16QAM	1	5	14.14	14.38	14.50			
1.4	16QAM	3	0	14.00	14.42	14.16	15.5	0	
1.4	16QAM	3	1	14.16	14.49	14.38			
1.4	16QAM	3	3	14.25	14.11	14.25			
1.4	16QAM	6	0	14.19	14.26	14.26	15.5	0	
1.4	64QAM	1	0	14.08	14.17	14.24	15.5	0	
1.4	64QAM	1	3	13.99	14.24	14.19			
1.4	64QAM	1	5	14.06	14.04	13.97			
1.4	64QAM	3	0	14.30	14.09	14.29			
1.4	64QAM	3	1	14.18	14.17	14.08			
1.4	64QAM	3	3	14.24	14.23	14.28			
1.4	64QAM	6	0	14.16	14.12	14.10	1		



2CA DL

CA List	PCC								SCC				Power			
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	Ant	(MHz)	Freq. Channel	(MHz)		RB	RB Offset	Band	(MHz)	Freq. Channel	(MHz)		Tx. Power (dBm)	Tx. Power (dBm)	
CA_4A-17A	Band 4	Ant0	10M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790	4x4MIMO	22.22	22.39
	Band 4	Ant4	10M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790	4x4MIMO	20.66	20.62
	Band 17	Ant0	10M	710	23790	QPSK	1	0	4x4MIMO	Band 4	10M	2132.5	2175	4x4MIMO	22.56	22.69
	Band 17	Ant4	10M	710	23790	QPSK	1	0	4x4MIMO	Band 4	10M	2132.5	2175	4x4MIMO	22.40	22.49
CA_4A-48A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.18	22.39
	Band 48	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	20.71	20.62
CA_7B	Band 48	Ant5	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.41	22.51
	Band 7	Ant1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544.3	3193	4x4MIMO	22.42	22.52
CA_25A-41A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.64	22.79
	Band 25	Ant4	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	21.11	21.27
CA_26A-41A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.48	22.65
	Band 26	Ant4	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.20	22.38
CA_41A-41A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	22.39	22.59
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	21.72	21.92
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	19.62	19.62
	Band 41	Ant7	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	20.25	20.44



3CA DL

3CA List	PCC								SCC1				SCC2				Power				
	LTE	BW	BW	UL	UL	UL#	UL#	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	With CA	Without CA		
	Band	Ant	(MHz)	Freq. Channel					Mod.	RB	RB			Offset	Band	(MHz)		Freq. Channel	Band	(MHz)	Freq. Channel
CA_2A-4A-13A	Band 2	An0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 13	10M	751	5230	4xMIMO	22.98	22.77
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 13	10M	751	5230	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.16	22.39
	Band 4	An4	10M	782	23230	QPSK	1	0	4xMIMO	Band 13	10M	751	5230	4xMIMO	Band 2	20M	1960	900	4xMIMO	20.70	20.82
	Band 13	An4	10M	782	23230	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.59	22.75
CA_2A-4A-30A	Band 2	An0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 30	10M	2355	9820	4xMIMO	22.81	22.77
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.22	22.39
	Band 4	An4	10M	782	23230	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	Band 2	20M	1960	900	4xMIMO	20.69	20.82
	Band 30	An1	10M	2310	27710	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.15	22.34
CA_2A-5A-30A	Band 2	An0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	Band 30	10M	2355	9820	4xMIMO	22.81	22.77
	Band 5	An0	10M	886.5	2525	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.46	22.62
	Band 5	An4	10M	886.5	2525	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.16	22.33
	Band 30	An1	10M	2310	27710	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	22.20	22.34
CA_2A-5A-48A	Band 2	An0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	Band 48	20M	3609	55830	4xMIMO	22.57	22.77
	Band 5	An0	10M	886.5	2525	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.46	22.62
	Band 5	An4	10M	886.5	2525	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.24	22.33
	Band 30	An1	10M	2310	27710	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	Band 7	20M	2655	3100	4xMIMO	22.58	22.77
CA_2A-7A-12A	Band 2	An0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	22.58	22.77
	Band 7	An1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	22.34	22.52
	Band 12	An0	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.59	22.72
	Band 12	An4	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.33	22.54
CA_2A-7A-13A	Band 2	An0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 13	10M	751	5230	4xMIMO	Band 7	20M	2655	3100	4xMIMO	22.62	22.77
	Band 7	An1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 13	10M	751	5230	4xMIMO	22.37	22.52
	Band 13	An0	10M	782	23230	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.56	22.75
	Band 13	An4	10M	782	23230	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.15	22.31
CA_2A-12A-30A	Band 2	An0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	Band 30	10M	2355	9820	4xMIMO	22.62	22.77
	Band 12	An0	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.58	22.72
	Band 12	An4	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.35	22.54
	Band 30	An1	10M	2310	27710	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	22.18	22.34
CA_2A-13A-48A	Band 2	An0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 13	10M	751	5230	4xMIMO	Band 48	20M	3609	55830	4xMIMO	22.66	22.77
	Band 13	An0	10M	782	23230	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.63	22.75
	Band 13	An4	10M	782	23230	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.17	22.31
	Band 30	An1	10M	2310	27710	QPSK	1	0	4xMIMO	Band 14	10M	763	5330	4xMIMO	Band 66	20M	2155	66888	4xMIMO	22.64	22.77
CA_2A-14A-66A	Band 14	An0	10M	793	23330	QPSK	1	0	4xMIMO	Band 66	20M	2155	66888	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.60	22.77
	Band 14	An4	10M	793	23330	QPSK	1	0	4xMIMO	Band 66	20M	2155	66888	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.15	22.25
	Band 66	An0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 14	10M	763	5330	4xMIMO	22.34	22.46
	Band 66	An4	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 14	10M	763	5330	4xMIMO	20.81	21.01
CA_2A-30A-66A	Band 2	An0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	Band 66	20M	2155	66888	4xMIMO	22.67	22.77
	Band 30	An1	10M	2310	27710	QPSK	1	0	4xMIMO	Band 66	20M	2155	66888	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.32	22.34
	Band 66	An0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 30	10M	2355	9820	4xMIMO	22.37	22.46
	Band 66	An4	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 30	10M	2355	9820	4xMIMO	20.90	21.01
CA_2A-48A-48A	Band 2	An0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 48	SA	3697.5	56715	4xMIMO	22.56	22.77
	Band 2	An4	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	22.64	22.77
	Band 12	An0	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	22.63	22.72
	Band 12	An4	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	22.44	22.54
CA_4A-4A-13A	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	SA	2152.5	2375	4xMIMO	Band 13	10M	751	5230	4xMIMO	22.30	22.39
	Band 4	An4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	SA	2152.5	2375	4xMIMO	Band 13	10M	751	5230	4xMIMO	20.62	20.82
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	SA	2152.5	2375	4xMIMO	Band 13	10M	751	5230	4xMIMO	22.22	22.39
	Band 13	An0	10M	782	23230	QPSK	1	0	4xMIMO	Band 4	SA	2152.5	2375	4xMIMO	Band 13	10M	751	5230	4xMIMO	20.73	20.82
CA_4A-4A-71A	Band 13	An0	10M	782	23230	QPSK	1	0	4xMIMO	Band 4	SA	2152.5	2375	4xMIMO	Band 4	SA	2152.5	2375	4xMIMO	22.14	22.31
	Band 13	An4	10M	782	23230	QPSK	1	0	4xMIMO	Band 4	SA	2152.5	2375	4xMIMO	Band 4	SA	2152.5	2375	4xMIMO	22.28	22.39
	Band 71	An0	20M	883	133322	QPSK	1	0	4xMIMO	Band 4	SA	2152.5	2375	4xMIMO	Band 71	20M	683	68786	4xMIMO	20.84	20.82
	Band 71	An4	20M	883	133322	QPSK	1	0	4xMIMO	Band 4	SA	2152.5	2375	4xMIMO	Band 71	20M	683	68786	4xMIMO	22.62	22.62
CA_4A-5A-30A	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	Band 30	10M	2355	9820	4xMIMO	22.30	22.39
	Band 5	An0	10M	886.5	2525	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.46	22.62
	Band 5	An4	10M	886.5	2525	QPSK	1	0	4xMIMO	Band 30	10M	2355	9820	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.20	22.33
	Band 30	An1	10M	2310	27710	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	22.23	22.34
CA_4A-7A-12A	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 7</											



4CA DL

Configure	PCC										SCC1				SCC2				SCC3				Power			
	LTE Band	BW Ant	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL RB	UL DL Antenna Configuration	LTE Band	BW	DL Freq. (MHz)	DL Channel	DL DL Antenna Configuration	LTE Band	BW	DL Freq. (MHz)	DL Channel	DL DL Antenna Configuration	LTE Band	BW	DL Freq. (MHz)	DL Channel	DL DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)	
	Band								Band					Band					Band							
CA_2A-2A-4A-4A	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	1987.5	2375	4x4MIMO	22.64	22.39
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2132.5	2375	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.23	22.39
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2132.5	2375	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	20.69	20.82
	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	861.5	2525	4x4MIMO	22.66	22.77
CA_2A-2A-4A-5A	Band 2	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	861.5	2525	4x4MIMO	20.67	20.82
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	861.5	2525	4x4MIMO	22.60	22.62
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.17	22.33
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	22.22	22.39
CA_2A-2A-4A-12A	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	22.22	22.39
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	20.72	20.82
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	22.63	22.72
	Band 12	Ant4	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.35	22.54
CA_2A-2A-4A-71A	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	637	68798	4x4MIMO	22.65	22.77
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	637	68798	4x4MIMO	22.23	22.39
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 71	20M	637	68798	4x4MIMO	20.71	20.82
	Band 71	Ant0	20M	863	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.45	22.62
CA_2A-2A-5A-66A	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	861.5	2525	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.62	22.77
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.47	22.62
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.20	22.33
	Band 66	Ant4	20M	1745	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	861.5	2525	4x4MIMO	20.35	20.49
CA_2A-2A-5B	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	861.5	2525	4x4MIMO	Band 5	5M	887.7	2997	4x4MIMO	22.67	22.77
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	887.7	2997	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.41	22.62
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	887.7	2997	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.16	22.33
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	887.7	2997	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.65	22.77
CA_2A-2A-7A-66A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.37	22.52
	Band 66	Ant4	20M	1745	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.36	22.49
	Band 66	Ant4	20M	1745	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	20.90	21.01
	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.61	22.77
CA_2A-2A-12A-66A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.47	22.72
	Band 12	Ant4	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.40	22.65
	Band 66	Ant4	20M	1745	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	20.29	20.49
	Band 66	Ant4	20M	1745	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	20.87	21.01
CA_2A-2A-12B	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	5M	742.3	5143	4x4MIMO	Band 12	5M	742.3	5143	4x4MIMO	22.96	22.77
	Band 12	Ant4	5M	707.5	23095	QPSK	1	0	4x4MIMO	Band 12	5M	742.3	5143	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.51	22.72
	Band 12	Ant4	5M	707.5	23095	QPSK	1	0	4x4MIMO	Band 12	5M	742.3	5143	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.38	22.64
	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.54	22.77
CA_2A-2A-13A-66A	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.34	22.77
	Band 13	Ant0	10M	782	23230	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.30	22.77
	Band 13	Ant4	10M	782	23230	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68898	4x4MIMO	22.30	22.77
	Band 66	Ant4	20M	1745	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	20.84	21.01
CA_2A-2A-14A-30A	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330	4x4MIMO	Band 30	10M	2355	8620	4x4MIMO	22.67	22.77
	Band 14	Ant0	10M	793	23330	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	8620	4x4MIMO	22.61	22.77
	Band 14	Ant4	10M	793	23330	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	8620	4x4MIMO	22.14	22.39
	Band 30	Ant1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330	4x4MIMO	22.15	22.34
CA_2A-2A-66A-66A	Band 2	Ant0	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5														



CA_5B-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	22.50	22.62
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	22.12	22.33
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.40	22.49
CA_5B-66B	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		20.84	21.01
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	15M	2155	66886	4xMMMO	Band 66	5M	2164.3	66979	4xMMMO	22.45	22.62
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	15M	2155	66886	4xMMMO	Band 66	5M	2164.3	66979	4xMMMO	22.22	22.33
CA_5B-66C	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4xMMMO	Band 66	5M	2154.3	66879	4xMMMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.31	22.49
	Band 66	Ant4	15M	1745	132322	QPSK	1	0	4xMMMO	Band 66	5M	2154.3	66879	4xMMMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		20.81	21.01
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4xMMMO	Band 66	20M	2174.8	67084	4xMMMO	22.42	22.62
CA_7A-7A-13A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4xMMMO	Band 66	20M	2174.8	67084	4xMMMO	22.12	22.33
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	20M	2164.8	66984	4xMMMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.29	22.49
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	20M	2164.8	66984	4xMMMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		20.81	21.01
CA_7A-7A-25A-66A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4xMMMO	22.39	22.52
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	22.65	22.75
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	22.13	22.31
CA_7A-7A-25A-25A	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	Band 13	10M	751	5230		22.39	22.49
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	Band 13	10M	751	5230		20.82	21.01
	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	Band 25	20M	1960	8340	4xMMMO	22.32	22.52
CA_7A-25A-25A-66A	Band 66	Ant0	20M	1880	26340	QPSK	1	0	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	Band 25	20M	1960	8340	4xMMMO	21.20	21.27
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	Band 25	20M	1960	8340	4xMMMO	22.29	22.49
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	Band 25	20M	1960	8340	4xMMMO	20.84	21.01
CA_7A-25A-25A-25A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 25	20M	1960	8340	4xMMMO	Band 25	20M	1960	8340	4xMMMO	22.37	22.52
	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4xMMMO	Band 23	20M	1985	8590	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	22.68	22.79
	Band 25	Ant4	20M	1880	26340	QPSK	1	0	4xMMMO	Band 23	20M	1985	8590	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	21.08	21.27
CA_7A-25A-25A-66A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMMMO	Band 23	20M	1960	8340	4xMMMO	Band 25	20M	1985	8590	4xMMMO	Band 66	20M	2155	66886	4xMMMO	22.32	22.52
	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4xMMMO	Band 23	20M	1985	8590	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 66	20M	2155	66886	4xMMMO	22.61	22.79
	Band 66	Ant0	20M	1880	26340	QPSK	1	0	4xMMMO	Band 23	20M	1985	8590	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 66	20M	2155	66886	4xMMMO	21.14	21.27
CA_7A-7A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 25	20M	1960	8340	4xMMMO	Band 25	20M	1960	8340	4xMMMO	20.88	21.01
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	22.37	22.52
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	22.31	22.49
CA_7C-13A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	22.84	23.01
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	5M	2687.5	3425	4xMMMO	22.39	22.52
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4xMMMO	22.35	22.52
CA_7C-66A-66A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	20M	2654.8	3298	4xMMMO	22.63	22.75
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	20M	2654.8	3298	4xMMMO	22.16	22.31
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	20M	2654.8	3298	4xMMMO	Band 13	10M	751	5230		22.32	22.49
CA_12A-30A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	20M	2654.8	3298	4xMMMO	Band 13	10M	751	5230		20.88	21.01
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 7	20M	2654.8	3298	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	22.35	22.52
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	20M	2654.8	3298	4xMMMO	22.35	22.49
CA_12B-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	20M	2654.8	3298	4xMMMO	20.80	21.01
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	Band 7	20M	2655	3100	4xMMMO	Band 7	20M	2654.8	3298	4xMMMO	22.56	22.72
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 30	10M	2355	9820	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	22.37	22.54
CA_13A-48A-48C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 12	10M	737.5	5095		22.18	22.34
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4xMMMO	22.29	22.49
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	22.56	22.72
CA_13A-48A-66B	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMMMO	Band 12	5M	742.3	5143	4xMMMO	Band 66	20M	2155	66886	4xMMMO	Band 66	5M	2197.5	67311	4xMMMO	22.43	22.54
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4xMMMO	Band 66	20M	2197.5	67311	4xMMMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143	4xMMMO	20.87	21.01



Uplink CA Power

CA_SB Ant0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.53	24.00
20476	20575	QPSK	1	49	1	0	22.59	24.00
20600	20501	QPSK	1	0	1	49	22.42	24.00

CA_66B Ant0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.33	24.00
132322	132415	QPSK	1	74	1	0	22.41	24.00
132597	132504	QPSK	1	0	1	74	22.37	24.00

CA_66C Ant0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.36	24.00
132322	132520	QPSK	1	99	1	0	22.45	24.00
132572	132374	QPSK	1	0	1	99	22.38	24.00

CA_41C Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	99	1	0	22.33	24
39790	39948	QPSK	1	99	1	0	22.35	24
40185	40383	QPSK	1	99	1	0	22.45	24
40620	40818	QPSK	1	99	1	0	22.52	24
41055	41253	QPSK	1	99	1	0	22.48	24
41490	41292	QPSK	1	0	1	99	22.39	24

CA_41C HPUE Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	99	1	0	25.25	27
39790	39948	QPSK	1	99	1	0	25.21	27
40185	40383	QPSK	1	99	1	0	25.41	27
40620	40818	QPSK	1	99	1	0	25.43	27
41055	41253	QPSK	1	99	1	0	25.31	27
41490	41292	QPSK	1	0	1	99	25.27	27

CA_48B Ant5								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	22.31	24
55820	55913	QPSK	1	74	1	0	22.39	24
56150	56243	QPSK	1	74	1	0	22.22	24
56665	56572	QPSK	1	0	1	74	22.33	24

CA_48C Ant5								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	22.34	24
55830	56028	QPSK	1	99	1	0	22.48	24
56150	56348	QPSK	1	99	1	0	22.43	24
56640	56442	QPSK	1	0	1	99	22.37	24

Uplink CA Power

CA_5B Ant0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.53	24.00
20476	20575	QPSK	1	49	1	0	22.59	24.00
20600	20501	QPSK	1	0	1	49	22.42	24.00

CA_66B Ant0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.33	24.00
132322	132415	QPSK	1	74	1	0	22.41	24.00
132597	132504	QPSK	1	0	1	74	22.37	24.00

CA_66C Ant0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.36	24.00
132322	132520	QPSK	1	99	1	0	22.45	24.00
132572	132374	QPSK	1	0	1	99	22.38	24.00

CA_41C Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	99	1	0	22.33	24
39750	39948	QPSK	1	99	1	0	22.35	24
40185	40383	QPSK	1	99	1	0	22.45	24
40620	40818	QPSK	1	99	1	0	22.52	24
41055	41253	QPSK	1	99	1	0	22.48	24
41490	41292	QPSK	1	0	1	99	22.39	24

CA_41C HPUE Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	99	1	0	25.25	27
39750	39948	QPSK	1	99	1	0	25.21	27
40185	40383	QPSK	1	99	1	0	25.41	27
40620	40818	QPSK	1	99	1	0	25.43	27
41055	41253	QPSK	1	99	1	0	25.31	27
41490	41292	QPSK	1	0	1	99	25.27	27

CA_48B Ant5								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	15.53	17.5
55820	55913	QPSK	1	74	1	0	15.69	17.5
56150	56243	QPSK	1	74	1	0	15.64	17.5
56665	56572	QPSK	1	0	1	74	15.64	17.5

CA_48C Ant5								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	16.69	18.5
55830	56028	QPSK	1	99	1	0	16.67	18.5
56150	56348	QPSK	1	99	1	0	16.79	18.5
56640	56442	QPSK	1	0	1	99	16.83	18.5

Uplink CA Power

CA_5B Ant0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	20.85	22.50
20476	20575	QPSK	1	49	1	0	20.95	22.50
20600	20501	QPSK	1	0	1	49	20.92	22.50

CA_66B Ant0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	16.24	18.00
132322	132415	QPSK	1	74	1	0	16.39	18.00
132597	132504	QPSK	1	0	1	74	16.35	18.00

CA_66C Ant0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	16.36	18.00
132322	132520	QPSK	1	99	1	0	16.48	18.00
132572	132374	QPSK	1	0	1	99	16.38	18.00

CA_41C Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	99	1	0	19.43	21
39790	39948	QPSK	1	99	1	0	19.35	21
40185	40383	QPSK	1	99	1	0	19.45	21
40620	40818	QPSK	1	99	1	0	19.52	21
41055	41253	QPSK	1	99	1	0	19.48	21
41490	41292	QPSK	1	0	1	99	19.39	21

CA_41C HPUE Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	99	1	0	22.36	24
39790	39948	QPSK	1	99	1	0	22.21	24
40185	40383	QPSK	1	99	1	0	22.41	24
40620	40818	QPSK	1	99	1	0	22.43	24
41055	41253	QPSK	1	99	1	0	22.31	24
41490	41292	QPSK	1	0	1	99	22.27	24

CA_48B Ant5								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	14.63	16.5
55820	55913	QPSK	1	74	1	0	14.79	16.5
56150	56243	QPSK	1	74	1	0	14.72	16.5
56665	56572	QPSK	1	0	1	74	14.74	16.5

CA_48C Ant5								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	14.69	16.5
55830	56028	QPSK	1	99	1	0	14.87	16.5
56150	56348	QPSK	1	99	1	0	14.83	16.5
56640	56442	QPSK	1	0	1	99	14.83	16.5

Uplink CA Power

CA_SB Ant0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	20.35	22.00
20476	20575	QPSK	1	49	1	0	20.41	22.00
20600	20501	QPSK	1	0	1	49	20.38	22.00

CA_66B Ant0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	14.80	16.50
132322	132415	QPSK	1	74	1	0	14.95	16.50
132597	132504	QPSK	1	0	1	74	14.91	16.50

CA_66C Ant0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	14.92	16.50
132322	132520	QPSK	1	99	1	0	15.04	16.50
132572	132374	QPSK	1	0	1	99	14.94	16.50

CA_41C Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	99	1	0	18.29	20
39750	39948	QPSK	1	99	1	0	18.20	20
40185	40383	QPSK	1	99	1	0	18.30	20
40620	40818	QPSK	1	99	1	0	18.37	20
41055	41253	QPSK	1	99	1	0	18.33	20
41490	41292	QPSK	1	0	1	99	18.24	20

CA_41C HPUE Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	99	1	0	21.16	23
39750	39948	QPSK	1	99	1	0	21.06	23
40185	40383	QPSK	1	99	1	0	21.26	23
40620	40818	QPSK	1	99	1	0	21.28	23
41055	41253	QPSK	1	99	1	0	21.16	23
41490	41292	QPSK	1	0	1	99	21.12	23

CA_48B Ant5								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	13.19	15
55820	55913	QPSK	1	74	1	0	13.35	15
56150	56243	QPSK	1	74	1	0	13.34	15
56665	56572	QPSK	1	0	1	74	13.30	15

CA_48C Ant5								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	13.39	15
55830	56028	QPSK	1	99	1	0	13.57	15
56150	56348	QPSK	1	99	1	0	13.52	15
56640	56442	QPSK	1	0	1	99	13.53	15

Uplink CA Power

CA_SB Ant0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	21.35	23.00
20476	20575	QPSK	1	49	1	0	21.45	23.00
20600	20501	QPSK	1	0	1	49	21.38	23.00

CA_66B Ant0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	19.38	21.00
132322	132415	QPSK	1	74	1	0	19.51	21.00
132597	132504	QPSK	1	0	1	74	19.49	21.00

CA_66C Ant0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	19.50	21.00
132322	132520	QPSK	1	99	1	0	19.69	21.00
132572	132374	QPSK	1	0	1	99	19.52	21.00

CA_41C Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	99	1	0	20.89	22.5
39790	39948	QPSK	1	99	1	0	20.76	22.5
40185	40383	QPSK	1	99	1	0	20.86	22.5
40620	40818	QPSK	1	99	1	0	20.93	22.5
41055	41253	QPSK	1	99	1	0	20.89	22.5
41490	41292	QPSK	1	0	1	99	20.80	22.5

CA_41C HPUE Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	99	1	0	23.68	25.5
39790	39948	QPSK	1	99	1	0	23.62	25.5
40185	40383	QPSK	1	99	1	0	23.82	25.5
40620	40818	QPSK	1	99	1	0	23.84	25.5
41055	41253	QPSK	1	99	1	0	23.72	25.5
41490	41292	QPSK	1	0	1	99	23.68	25.5

CA_48B Ant5								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	20.31	22
55820	55913	QPSK	1	74	1	0	20.47	22
56150	56243	QPSK	1	74	1	0	20.43	22
56665	56572	QPSK	1	0	1	74	20.42	22

CA_48C Ant5								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	20.53	22
55830	56028	QPSK	1	99	1	0	20.71	22
56150	56348	QPSK	1	99	1	0	20.59	22
56640	56442	QPSK	1	0	1	99	20.67	22



n41 Ant2 PC3&PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	518598	526000			
Frequency (MHz)				2648.01	2662.99	2640			
100	PI2 BPSK	1	1	22.16	22.27	22.10			
100	PI2 BPSK	1	137	23.35	23.51	23.29	24.0	0.0	
100	PI2 BPSK	1	271	22.23	22.30	22.27			
100	PI2 BPSK	135	0	23.33	23.34	23.31	24.0	0.0	
100	PI2 BPSK	135	69	23.28	23.36	23.27	24.0	0.0	
100	PI2 BPSK	135	138	23.22	23.35	23.23	24.0	0.0	
100	PI2 BPSK	270	0	23.31	23.40	23.18			
100	QPSK	1	1	21.97	22.34	22.72	24.0	0.0	
100	QPSK	1	137	23.30	23.53	23.13	24.0	0.0	
100	QPSK	1	271	22.26	22.20	22.19			
100	QPSK	135	0	23.19	23.46	23.10	24.0	0.0	
100	QPSK	135	69	23.31	23.47	23.30	24.0	0.0	
100	QPSK	135	138	23.09	23.22	23.19	24.0	0.0	
100	QPSK	270	0	23.05	23.36	23.09			
100	16QAM	1	1	22.08	22.17	22.04	24.0	0.0	
100	16QAM	1	1	22.05	22.07	22.02	24.0	0.0	
100	256QAM	1	1	21.12	21.31	21.19	22.5	1.5	
Channel				508000	518598	526998	Tune-up limit (dB)	MPR	
Frequency (MHz)				2541	2562.99	2644.98	24.0	0.0	
90	QPSK	1	1	23.13	23.45	23.10	24.0	0.0	
Channel				507000	518598	526998	Tune-up limit (dB)	MPR	
Frequency (MHz)				2536.02	2562.99	2649.98	24.0	0.0	
80	QPSK	1	1	23.23	23.38	23.06	24.0	0.0	
Channel				506000	518598	531000	Tune-up limit (dB)	MPR	
Frequency (MHz)				2530	2562.99	2658.98	24.0	0.0	
70	QPSK	1	1	23.18	23.39	23.13	24.0	0.0	
Channel				505000	518598	531998	Tune-up limit (dB)	MPR	
Frequency (MHz)				2525	2562.99	2668.98	24.0	0.0	
60	QPSK	1	1	23.15	23.50	23.08	24.0	0.0	
Channel				502000	518598	532998	Tune-up limit (dB)	MPR	
Frequency (MHz)				2521.02	2562.99	2664.98	24.0	0.0	
50	QPSK	1	1	23.25	23.46	23.15	24.0	0.0	
Channel				501000	518598	533998	Tune-up limit (dB)	MPR	
Frequency (MHz)				2516.01	2562.99	2670	24.0	0.0	
40	QPSK	1	1	23.21	23.42	23.12	24.0	0.0	
Channel				502000	518598	534998	Tune-up limit (dB)	MPR	
Frequency (MHz)				2506.02	2562.99	2674.98	24.0	0.0	
30	QPSK	1	1	23.23	23.38	23.07	24.0	0.0	
Channel				501000	518598	535998	Tune-up limit (dB)	MPR	
Frequency (MHz)				2501.01	2562.99	2678.98	24.0	0.0	
20	QPSK	1	1	23.21	23.39	23.14	24.0	0.0	
Channel				500000	518598	536998	Tune-up limit (dB)	MPR	
Frequency (MHz)				2503.01	2562.99	2682.48	24.0	0.0	
15	QPSK	1	1	23.24	23.38	23.11	24.0	0.0	
Channel				500000	518598	537000	Tune-up limit (dB)	MPR	
Frequency (MHz)				2501.01	2562.99	2685	24.0	0.0	
10	QPSK	1	1	23.15	23.43	23.10	24.0	0.0	

Part270 n77 Ant2 PC3&PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3790	3840	3840			
100	PI2 BPSK	1	1	14.84	14.93	14.83			
100	PI2 BPSK	1	137	15.65	15.78	15.70	16.5	0.0	
100	PI2 BPSK	1	271	14.76	14.73	14.70			
100	PI2 BPSK	135	0	15.53	15.71	15.67	16.5	0.0	
100	PI2 BPSK	135	69	15.77	15.76	15.71	16.5	0.0	
100	PI2 BPSK	135	138	15.54	15.56	15.48	16.5	0.0	
100	PI2 BPSK	270	0	15.53	15.68	15.59			
100	QPSK	1	1	15.03	15.05	14.77	16.5	0.0	
100	QPSK	1	137	15.77	15.94	15.80	16.5	0.0	
100	QPSK	1	271	14.74	14.82	14.75			
100	QPSK	135	0	15.65	15.73	15.61	16.5	0.0	
100	QPSK	135	69	15.70	15.82	15.76	16.5	0.0	
100	QPSK	135	138	15.56	15.68	15.56	16.5	0.0	
100	QPSK	270	0	15.67	15.76	15.54			
100	16QAM	1	1	14.84	14.75	14.71	16.5	0.0	
100	16QAM	1	1	14.82	14.68	14.61	16.5	0.0	
100	256QAM	1	1	14.78	14.82	14.73	16.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3745.02	3840	3955.01	16.5	0.0	
90	QPSK	1	1	15.57	15.66	15.55	16.5	0.0	
Channel				645334	650000	662668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3740.01	3840	3940.02	16.5	0.0	
80	QPSK	1	1	15.59	15.65	15.57	16.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3745.02	3840	3950.01	16.5	0.0	
70	QPSK	1	1	15.58	15.63	15.56	16.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3745.02	3840	3950.01	16.5	0.0	
60	QPSK	1	1	15.57	15.94	15.55	16.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3840	3955.02	16.5	0.0	
50	QPSK	1	1	15.57	15.63	15.56	16.5	0.0	
Channel				650000	650000	663000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3720	3840	3960	16.5	0.0	
40	QPSK	1	1	15.59	15.65	15.57	16.5	0.0	
Channel				647668	650000	663334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3718.02	3840	3955.01	16.5	0.0	
30	QPSK	1	1	15.59	15.64	15.56	16.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3710.01	3840	3970.02	16.5	0.0	
20	QPSK	1	1	15.59	15.68	15.54	16.5	0.0	
Channel				647168	650000	664334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3707.52	3840	3972.51	16.5	0.0	
15	QPSK	1	1	15.58	15.67	15.57	16.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3705	3840	3975	16.5	0.0	
10	QPSK	1	1	15.56	15.65	15.56	16.5	0.0	

Part27Q n77 Ant2 PC3&PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				630000	633334	636668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3495	3500.01	3505.02	16.5	0.0	
100	PI2 BPSK	1	1	15.61	15.64	15.60	16.5	0.0	
100	PI2 BPSK	1	137	15.81	15.81	15.81	16.5	0.0	
100	PI2 BPSK	1	271	15.14	15.14	15.14	16.5	0.0	
100	PI2 BPSK	135	0	15.44	15.44	15.44	16.5	0.0	
100	PI2 BPSK	135	69	15.56	15.56	15.56	16.5	0.0	
100	PI2 BPSK	135	138	15.43	15.43	15.43	16.5	0.0	
100	PI2 BPSK	270	0	15.46	15.46	15.46	16.5	0.0	
100	QPSK	1	1	14.99	14.99	14.99	16.5	0.0	
100	QPSK	1	137	15.69	15.69	15.69	16.5	0.0	
100	QPSK	1	271	15.13	15.13	15.13	16.5	0.0	
100	QPSK	135	0	15.40	15.40	15.40	16.5	0.0	
100	QPSK	135	69	15.63	15.63	15.63	16.5	0.0	
100	QPSK	135	138	15.51	15.51	15.51	16.5	0.0	
100	QPSK	270	0	15.58	15.58	15.58	16.5	0.0	
100	16QAM	1	1	14.86	14.86	14.86	16.5	0.0	
100	16QAM	1	1	14.35	14.35	14.35	16.5	0.0	
100	256QAM	1	1	14.54	14.54	14.54	16.5	0.0	
Channel				630000	633334	636668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3495	3500.01	3505.02	16.5	0.0	
90	QPSK	1	1	15.61	15.64	15.60	16.5	0.0	
Channel				630000	633334	636668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3490.02	3500.01	3510	16.5	0.0	
80	QPSK	1	1	15.60	15.62	15.58	16.5	0.0	
Channel				630000	633334	636668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3490	3500.01	3505.02	16.5	0.0	
70	QPSK	1	1	15.62	15.62	15.58	16.5	0.0	
Channel				630000	633334	636668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3490	3500.01	3505.02	16.5	0.0	
60	QPSK	1	1	15.60	15.63	15.58	16.5	0.0	
Channel				631668	633334	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3500.01	3525	16.5	0.0	
50	QPSK	1	1	15.61	15.62	15.58	16.5	0.0	
Channel				631000	633334	636668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			



Part270 n78 Ant2 PC3&PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				65000	65000	65000			
				3760	3760	3760			
100	PI2 BPSK	1	1		14.65				
100	PI2 BPSK	1	137		15.51		16.5	0.0	
100	PI2 BPSK	1	271		14.63				
100	PI2 BPSK	135	0		15.30		16.5	0.0	
100	PI2 BPSK	135	69		15.46		16.5	0.0	
100	PI2 BPSK	135	138		15.35		16.5	0.0	
100	PI2 BPSK	270	0		15.50				
100	QPSK	1	1		14.55				
100	QPSK	1	137		15.00		16.5	0.0	
100	QPSK	1	271		14.54				
100	QPSK	135	0		15.41		16.5	0.0	
100	QPSK	135	69		15.45		16.5	0.0	
100	QPSK	135	138		15.43		16.5	0.0	
100	QPSK	270	0		15.43		16.5	0.0	
100	16QAM	1	1		14.58		16.5	0.0	
100	64QAM	1	1		14.67		16.5	0.0	
100	256QAM	1	1		14.56		16.5	0.0	
Channel									
Frequency (MHz)				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1		3745.02	3760	3755.01	16.5	0.0
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1		3740.01	3760	3760.02	16.5	0.0
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1		15.41	15.41	15.35	16.5	0.0
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1		3725	3760	3765	16.5	0.0
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1		15.41	15.42	15.35	16.5	0.0
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1		3725.01	3760	3775.02	16.5	0.0
Channel									
Frequency (MHz)				647000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1		15.39	15.40	15.35	16.5	0.0
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1		15.38	15.40	15.35	16.5	0.0
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1		3710.01	3760	3760.02	16.5	0.0
Channel									
Frequency (MHz)				646000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1		3707.52	3760	3762.51	16.5	0.0
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1		15.39	15.40	15.38	16.5	0.0

Part27Q n78 Ant2 PC3&PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				63300	63334	63600			
				3090.01					
100	PI2 BPSK	1	1		14.16				
100	PI2 BPSK	1	137		15.33		16.5	0.0	
100	PI2 BPSK	1	271		15.06				
100	PI2 BPSK	135	0		14.59		16.5	0.0	
100	PI2 BPSK	135	69		15.12		16.5	0.0	
100	PI2 BPSK	135	138		15.09		16.5	0.0	
100	PI2 BPSK	270	0		15.20				
100	QPSK	1	1		14.24				
100	QPSK	1	137		15.43		16.5	0.0	
100	QPSK	1	271		15.07				
100	QPSK	135	0		14.73		16.5	0.0	
100	QPSK	135	69		15.17		16.5	0.0	
100	QPSK	135	138		15.21		16.5	0.0	
100	QPSK	270	0		15.15		16.5	0.0	
100	16QAM	1	1		15.03		16.5	0.0	
100	64QAM	1	1		14.19		16.5	0.0	
100	256QAM	1	1		14.18		16.5	0.0	
Channel									
Frequency (MHz)				63900	63334	63668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1		3495	3500.01	3505.02	16.5	0.0
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1		3460.02	3500.01	3510	16.5	0.0
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1		15.22	15.25	15.24	16.5	0.0
Channel									
Frequency (MHz)				631334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1		3455.01	3500.01	3515.01	16.5	0.0
Channel									
Frequency (MHz)				630668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1		15.19	15.27	15.23	16.5	0.0
Channel									
Frequency (MHz)				630000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1		3475.02	3500.01	3525	16.5	0.0
Channel									
Frequency (MHz)				629334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1		15.20	15.28	15.24	16.5	0.0
Channel									
Frequency (MHz)				628668	633334	637000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1		15.23	15.25	15.23	16.5	0.0
Channel									
Frequency (MHz)				628000	633334	637668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1		3460.02	3500.01	3520.02	16.5	0.0
Channel									
Frequency (MHz)				627334	633334	638334	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1		15.20	15.27	15.24	16.5	0.0
Channel									
Frequency (MHz)				626668	633334	639000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1		15.20	15.26	15.24	16.5	0.0

n41 Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	20.64	20.71	20.57	23.0	0.0	
100	PI/2 BPSK	1	137	21.79	21.87	21.77			
100	PI/2 BPSK	1	271	20.81	20.85	20.78			
100	PI/2 BPSK	135	0	21.69	21.73	21.63	23.0	0.0	
100	PI/2 BPSK	135	69	21.68	21.80	21.73	23.0	0.0	
100	PI/2 BPSK	135	138	21.62	21.68	21.55	23.0	0.0	
100	PI/2 BPSK	270	0	21.66	21.74	21.62			
100	QPSK	1	1	20.11	20.75	20.67			
100	QPSK	1	137	21.84	21.93	21.77	23.0	0.0	
100	QPSK	1	271	20.83	20.92	20.85			
100	QPSK	135	0	21.74	21.80	21.73			
100	QPSK	135	69	21.56	21.85	21.73	23.0	0.0	
100	QPSK	135	138	21.66	21.71	21.56	23.0	0.0	
100	QPSK	270	0	21.51	21.78	21.64			
100	16QAM	1	1	20.57	20.64	20.52			
100	64QAM	1	1	20.52	20.57	20.48	23.0	0.0	
100	256QAM	1	1	19.69	19.73	19.70	21.5	1.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	23.0	0.0	
90	QPSK	1	1	21.54	21.80	21.62	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	23.0	0.0	
80	QPSK	1	1	21.50	21.81	21.63	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	23.0	0.0	
70	QPSK	1	1	21.51	21.88	21.68	23.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	23.0	0.0	
60	QPSK	1	1	21.54	21.83	21.70	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	23.0	0.0	
50	QPSK	1	1	21.60	21.79	21.62	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	23.0	0.0	
40	QPSK	1	1	21.59	21.89	21.72	23.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	23.0	0.0	
30	QPSK	1	1	21.50	21.78	21.68	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	23.0	0.0	
20	QPSK	1	1	21.57	21.87	21.66	23.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	23.0	0.0	
15	QPSK	1	1	21.53	21.89	21.68	23.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	23.0	0.0	
10	QPSK	1	1	21.54	21.85	21.68	23.0	0.0	

n41 Ant7 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.76	22.87	22.80	25.0	0.0	
100	PI/2 BPSK	1	137	23.86	23.97	23.82			
100	PI/2 BPSK	1	271	22.73	22.84	22.77			
100	PI/2 BPSK	135	0	23.28	23.41	23.32	25.0	0.0	
100	PI/2 BPSK	135	69	23.81	23.95	23.83	25.0	0.0	
100	PI/2 BPSK	135	138	23.16	23.27	23.21	25.0	0.0	
100	PI/2 BPSK	270	0	23.26	23.36	23.24			
100	QPSK	1	1	22.78	22.94	22.88			
100	QPSK	1	137	23.92	24.05	23.86	25.0	0.0	
100	QPSK	1	271	22.83	22.92	22.80			
100	QPSK	135	0	22.85	22.94	22.87			
100	QPSK	135	69	23.87	23.98	23.92	25.0	0.0	
100	QPSK	135	138	22.63	22.76	22.70	25.0	0.0	
100	QPSK	270	0	23.02	23.11	23.09			
100	16QAM	1	1	22.06	22.18	22.13			
100	64QAM	1	1	20.35	20.46	20.39	23.5	1.5	
100	256QAM	1	1	17.14	17.24	17.11	21.5	3.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	23.0	0.0	
90	QPSK	1	1	23.70	23.85	23.63	25.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	23.0	0.0	
80	QPSK	1	1	23.68	23.87	23.63	25.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	23.0	0.0	
70	QPSK	1	1	23.71	23.80	23.68	25.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	23.0	0.0	
60	QPSK	1	1	23.72	23.83	23.62	25.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	23.0	0.0	
50	QPSK	1	1	23.68	23.87	23.67	25.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	23.0	0.0	
40	QPSK	1	1	23.68	23.86	23.62	25.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	23.0	0.0	
30	QPSK	1	1	23.72	23.81	23.63	25.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	23.0	0.0	
20	QPSK	1	1	23.68	23.86	23.66	25.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	23.0	0.0	
15	QPSK	1	1	23.74	23.81	23.62	25.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	23.0	0.0	
10	QPSK	1	1	23.73	23.83	23.63	25.0	0.0	



n2 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				379300	376000	379000			
Frequency (MHz)				1896.5	1890	1893			
30	PI2 BPSK	1	1	22.93	22.95	22.76	24.0	0.0	
30	PI2 BPSK	1	80	23.08	23.15	23.10			
30	PI2 BPSK	1	158	22.91	22.95	22.89			
30	PI2 BPSK	80	0	22.88	22.82	22.96	23.5	0.5	
30	PI2 BPSK	80	40	22.99	23.10	23.00	24.0	0.0	
30	PI2 BPSK	80	80	22.91	22.81	22.97	23.5	0.5	
30	PI2 BPSK	160	0	22.80	22.89	22.85			
30	QPSK	1	1	22.82	22.94	22.91			
30	QPSK	1	80	23.11	23.21	23.15	24.0	0.0	
30	QPSK	1	158	22.95	22.98	22.87			
30	QPSK	80	0	22.97	22.97	22.26	23.0	1.0	
30	QPSK	80	40	23.06	23.17	23.13	24.0	0.0	
30	QPSK	80	80	22.79	22.31	22.21	23.0	1.0	
30	QPSK	160	0	22.17	22.35	22.32	23.0	1.0	
30	16QAM	1	1	21.69	21.79	21.72	23.0	1.0	
30	64QAM	1	1	20.17	20.28	20.13	21.5	2.5	
30	256QAM	1	1	18.76	18.82	18.78	19.5	4.5	
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1897.5			
25	QPSK	1	1	22.83	22.93	22.96	24.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1890	1890	1900			
20	QPSK	1	1	22.91	22.92	22.98	24.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1897.5	1890	1892.5			
15	QPSK	1	1	22.97	23.06	23.04	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1895	1890	1905			
10	QPSK	1	1	23.07	23.19	23.08	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1880	1897.5			
5	QPSK	1	1	22.98	23.11	23.03	24.0	0.0	

Default Power

n5 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				167300					
Frequency (MHz)				836.5					
25	PI2 BPSK	1	1	22.62					
25	PI2 BPSK	1	67		22.85		24.0	0.0	
25	PI2 BPSK	1	131		22.65				
25	PI2 BPSK	64	0		22.28		23.5	0.5	
25	PI2 BPSK	64	35		22.87		24.0	0.0	
25	PI2 BPSK	64	69		22.30		23.5	0.5	
25	PI2 BPSK	128	0		22.34				
25	QPSK	1	1	22.97					
25	QPSK	1	67		22.92		24.0	0.0	
25	QPSK	1	131		22.50				
25	QPSK	64	0		21.74		23.0	1.0	
25	QPSK	64	35		22.86		24.0	0.0	
25	QPSK	64	69		21.78		23.0	1.0	
25	QPSK	128	0		21.83		23.0	1.0	
25	16QAM	1	1		21.32		23.0	1.0	
25	64QAM	1	1		20.00		21.5	2.5	
25	256QAM	1	1		18.53		19.5	4.5	
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				834	836.5	838			
20	QPSK	1	1	22.84	22.89	22.73	0.0	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	835.5	841.5			
15	QPSK	1	1	22.77	22.86	22.75	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	835.5	844			
10	QPSK	1	1	22.82	22.88	22.75	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	835.5	846.5			
5	QPSK	1	1	22.78	22.80	22.75	24.0	0.0	

n12 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	707.5			
15	PI2 BPSK	1	1	22.84	22.98	22.75			
15	PI2 BPSK	1	40	22.75	22.83	22.71	24.0	0.0	
15	PI2 BPSK	1	77	22.73	22.80	22.71			
15	PI2 BPSK	36	0	22.95	22.85	22.92	23.5	0.5	
15	PI2 BPSK	36	22	22.69	22.81	22.70	24.0	0.0	
15	PI2 BPSK	36	43	22.54	22.61	22.50	23.5	0.5	
15	PI2 BPSK	75	0	22.88	22.64	22.61			
15	QPSK	1	1	22.87	22.92	22.81			
15	QPSK	1	40	22.83	22.87	22.77	24.0	0.0	
15	QPSK	1	77	22.72	22.81	22.68			
15	QPSK	36	0	22.04	22.12	22.08	23.0	1.0	
15	QPSK	36	22	22.82	22.85	22.77	24.0	0.0	
15	QPSK	36	43	22.02	22.07	21.94	23.0	1.0	
15	QPSK	75	0	22.05	22.13	22.00			
15	16QAM	1	1	21.72	21.76	21.69	23.0	1.0	
15	64QAM	1	1	20.11	20.22	20.18	21.5	2.5	
15	256QAM	1	1	18.70	18.83	18.77	19.5	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.82	22.85	22.72	24.0	0.0	
Channel				140300	141500	142100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.72	22.80	22.67	24.0	0.0	



n14 Ant0									
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)									
10	PI2 BPSK	1	1	22.57	22.57	22.57			
10	PI2 BPSK	1	25	22.53	22.53	22.53	24.0	0.0	
10	PI2 BPSK	1	50	22.50	22.50	22.50			
10	PI2 BPSK	25	0	22.12	22.12	22.12	23.5	0.5	
10	PI2 BPSK	25	14	22.26	22.26	22.26	24.0	0.0	
10	PI2 BPSK	25	27	22.07	22.07	22.07			
10	PI2 BPSK	50	0	22.14	22.14	22.14	23.5	0.5	
10	QPSK	1	1	22.64	22.64	22.64			
10	QPSK	1	26	22.58	22.58	22.58	24.0	0.0	
10	QPSK	1	50	22.55	22.55	22.55			
10	QPSK	25	0	21.73	21.73	21.73	23.0	1.0	
10	QPSK	25	14	22.60	22.60	22.60	24.0	0.0	
10	QPSK	25	27	21.86	21.86	21.86	23.0	1.0	
10	QPSK	50	0	21.78	21.78	21.78	23.0	1.0	
10	16QAM	1	1	21.36	21.36	21.36	23.0	1.0	
10	64QAM	1	1	19.91	19.91	19.91	21.5	2.5	
10	256QAM	1	1	18.48	18.48	18.48	19.5	4.5	
Channel									
				159.100	159.000	159.100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.53	22.52	22.49	24.0	0.0	

n25 Ant0									
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)									
45	PI2 BPSK	1	1	22.23	22.27	22.30			
45	PI2 BPSK	1	61	22.97	23.11	22.98	24.0	0.0	
45	PI2 BPSK	1	121	22.36	22.45	22.31			
45	PI2 BPSK	121	0	22.41	22.51	22.27	23.5	0.5	
45	PI2 BPSK	121	61	22.92	23.06	23.00	24.0	0.0	
45	PI2 BPSK	121	121	22.54	22.58	22.51			
45	PI2 BPSK	242	0	22.50	22.62	22.55	23.5	0.5	
45	QPSK	1	1	22.35	22.42	22.40			
45	QPSK	1	61	23.09	23.17	23.11	24.0	0.0	
45	QPSK	1	121	22.40	22.48	22.43			
45	QPSK	121	0	22.10	22.16	22.02	23.0	1.0	
45	QPSK	121	61	23.02	23.11	23.07	24.0	0.0	
45	QPSK	121	121	22.12	22.18	22.03	23.0	1.0	
45	QPSK	242	0	22.09	22.25	22.01	23.0	1.0	
45	16QAM	1	1	21.21	21.33	21.25	23.0	1.0	
45	64QAM	1	1	19.75	19.84	19.79	21.5	2.5	
45	256QAM	1	1	18.27	18.41	18.28	18.5	4.5	
Channel									
				374000	376000	375000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1870	1882.5	1886			
40	QPSK	1	1	22.89	23.02	23.04	0.0	0.0	
Channel									
				372500	376500	375500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1892.5			
35	QPSK	1	1	23.03	23.10	23.07	24.0	0.0	
Channel									
				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.99	23.09	23.03	24.0	0.0	
Channel									
				372500	376500	385000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1922.5			
25	QPSK	1	1	23.00	23.07	23.00	24.0	0.0	
Channel									
				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.97	23.04	23.00	24.0	0.0	
Channel									
				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.98	23.11	22.98	24.0	0.0	
Channel									
				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1864	1882.5	1914			
10	QPSK	1	1	22.95	23.04	23.07	24.0	0.0	
Channel									
				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.90	23.13	22.99	24.0	0.0	

n26 Ant0									
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)									
20	PI2 BPSK	1	1	22.74	22.81	22.76			
20	PI2 BPSK	1	53	22.63	22.68	22.67	24.0	0.0	
20	PI2 BPSK	1	104	22.61	22.71	22.67			
20	PI2 BPSK	50	0	22.20	22.25	22.21	23.5	0.5	
20	PI2 BPSK	50	28	22.76	22.80	22.71	24.0	0.0	
20	PI2 BPSK	50	56	22.20	22.31	22.19	23.5	0.5	
20	PI2 BPSK	100	0	22.23	22.27	22.28			
20	QPSK	1	1	22.80	22.91	22.82			
20	QPSK	1	53	22.69	22.75	22.68	24.0	0.0	
20	QPSK	1	104	22.62	22.69	22.59			
20	QPSK	50	0	21.81	21.84	21.81	23.0	1.0	
20	QPSK	50	28	22.78	22.87	22.80	24.0	0.0	
20	QPSK	50	56	21.86	21.80	21.71	23.0	1.0	
20	QPSK	100	0	21.84	21.88	21.81	23.0	1.0	
20	16QAM	1	1	21.36	21.43	21.30	23.0	1.0	
20	64QAM	1	1	19.95	20.06	19.99	21.5	2.5	
20	256QAM	1	1	18.51	18.62	18.57	18.5	4.5	
Channel									
				164300	166300	165300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.74	22.82	22.73	24.0	0.0	
Channel									
				163500	166500	165500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	845			
10	QPSK	1	1	22.68	22.78	22.67	24.0	0.0	
Channel									
				163300	166300	165900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.74	22.87	22.75	24.0	0.0	



n66 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	22.23	22.31	22.15			
45	PI2 BPSK	1	61	22.78	22.88	22.77	24.0	0.0	
45	PI2 BPSK	1	121	22.17	22.23	22.10			
45	PI2 BPSK	121	0	22.52	22.59	22.47	23.5	0.5	
45	PI2 BPSK	121	61	22.71	22.85	22.80	24.0	0.0	
45	PI2 BPSK	121	121	22.48	22.55	22.41	23.5	0.5	
45	PI2 BPSK	242	0	22.48	22.62	22.54			
45	QPSK	1	1	22.30	22.34	22.23	24.0	0.0	
45	QPSK	1	61	22.87	22.93	22.91			
45	QPSK	1	121	22.14	22.25	22.17			
45	QPSK	121	0	21.98	22.02	21.90	23.0	1.0	
45	QPSK	121	61	22.82	22.89	22.81	24.0	0.0	
45	QPSK	121	121	21.94	22.04	21.87	23.0	1.0	
45	QPSK	242	0	21.99	22.11	22.07			
45	16QAM	1	1	21.17	21.24	21.20	23.0	1.0	
45	64QAM	1	1	19.60	19.73	19.65	21.5	2.5	
45	256QAM	1	1	18.34	18.37	18.33	19.5	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.85	22.83	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.81	22.80	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.72	22.87	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.74	22.79	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.82	22.88	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.79	22.80	22.86	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.74	22.85	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.81	22.81	22.77	24.0	0.0	

n70 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.93	22.93	22.93			
15	PI2 BPSK	1	40	22.80	22.80	22.80	24.0	0.0	
15	PI2 BPSK	1	77	22.86	22.86	22.86			
15	PI2 BPSK	36	0	22.48	22.48	22.48	23.5	0.5	
15	PI2 BPSK	36	22	22.90	22.90	22.90	24.0	0.0	
15	PI2 BPSK	36	43	22.48	22.48	22.48	23.5	0.5	
15	PI2 BPSK	75	0	22.52	22.52	22.52			
15	QPSK	1	1	22.98	22.98	22.98			
15	QPSK	1	40	22.89	22.89	22.89	24.0	0.0	
15	QPSK	1	77	22.81	22.81	22.81			
15	QPSK	36	0	22.13	22.13	22.13	23.0	1.0	
15	QPSK	36	22	22.92	22.92	22.92	24.0	0.0	
15	QPSK	36	43	22.14	22.14	22.14	23.0	1.0	
15	QPSK	75	0	22.17	22.17	22.17			
15	16QAM	1	1	21.78	21.78	21.78	23.0	1.0	
15	64QAM	1	1	20.25	20.25	20.25	21.5	2.5	
15	256QAM	1	1	18.86	18.86	18.86	18.5	4.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.80	22.87	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.78	22.89	22.82	24.0	0.0	

n71 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.92	23.04	22.97			
20	PI2 BPSK	1	53	22.84	22.91	22.78	24.0	0.0	
20	PI2 BPSK	1	104	22.73	22.83	22.79			
20	PI2 BPSK	50	0	22.45	22.52	22.40	23.5	0.5	
20	PI2 BPSK	50	28	22.94	23.02	22.98	24.0	0.0	
20	PI2 BPSK	50	56	22.48	22.52	22.38	23.5	0.5	
20	PI2 BPSK	100	0	22.50	22.58	22.52			
20	QPSK	1	1	23.07	23.11	23.01			
20	QPSK	1	53	22.90	22.95	22.83	24.0	0.0	
20	QPSK	1	104	22.98	22.76	22.82			
20	QPSK	50	0	21.85	21.94	21.82	23.0	1.0	
20	QPSK	50	28	23.00	23.07	22.96	24.0	0.0	
20	QPSK	50	56	21.86	22.00	21.81	23.0	1.0	
20	QPSK	100	0	22.01	22.04	21.97			
20	16QAM	1	1	21.60	21.66	21.55	23.0	1.0	
20	64QAM	1	1	20.07	20.13	20.00	21.5	2.5	
20	256QAM	1	1	18.61	18.70	18.62	18.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.95	23.05	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.93	23.01	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	23.08	22.96	24.0	0.0	



n7 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	23.10	23.18	23.04			
50	PI/2 BPSK	1	135	23.00	23.07	22.98	24.0	0.0	
50	PI/2 BPSK	1	268	22.83	22.86	22.82			
50	PI/2 BPSK	135	0	22.65	22.78	22.74	23.5	0.5	
50	PI/2 BPSK	135	68	23.01	23.14	23.09	24.0	0.0	
50	PI/2 BPSK	135	135	22.53	22.58	22.52			
50	PI/2 BPSK	270	0	22.51	22.66	22.61	23.5	0.5	
50	QPSK	1	1	23.17	23.23	23.12			
50	QPSK	1	135	23.06	23.11	23.00	24.0	0.0	
50	QPSK	1	268	22.73	22.82	22.70			
50	QPSK	135	0	22.20	22.23	22.08	23.0	1.0	
50	QPSK	135	68	23.12	23.16	23.05	24.0	0.0	
50	QPSK	135	135	22.04	22.09	22.01			
50	QPSK	270	0	22.08	22.13	22.01	23.0	1.0	
50	16QAM	1	1	21.78	21.84	21.72	23.0	1.0	
50	64QAM	1	1	20.25	20.37	20.22	21.5	2.5	
50	256QAM	1	1	18.89	18.92	18.84	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	23.07	23.15	23.00	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.14	23.20	23.07	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.03	23.19	23.04	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	23.06	23.18	22.98	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.04	23.10	23.07	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.04	23.11	23.05	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.02	23.16	23.04	24.0	0.0	

n30 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		23.22				
10	PI/2 BPSK	1	26		23.16		24.0	0.0	
10	PI/2 BPSK	1	50		22.86				
10	PI/2 BPSK	25	0		22.79		23.5	0.5	
10	PI/2 BPSK	25	14		23.18		24.0	0.0	
10	PI/2 BPSK	25	27		22.53		23.5	0.5	
10	PI/2 BPSK	50	0		22.61				
10	QPSK	1	1		23.28				
10	QPSK	1	26		23.19		24.0	0.0	
10	QPSK	1	50		22.95				
10	QPSK	25	0		22.24		23.0	1.0	
10	QPSK	25	14		23.21		24.0	0.0	
10	QPSK	25	27		22.05		23.0	1.0	
10	QPSK	50	0		22.12		23.0	1.0	
10	16QAM	1	1		22.06		23.0	1.0	
10	64QAM	1	1		20.39		21.5	2.5	
10	256QAM	1	1		18.89		19.5	4.5	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	23.15	23.22	23.12	24.0	0.0	



n41 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505202	518598	526000			
Frequency (MHz)				2648.01	2662.99	2660			
100	PI2 BPSK	1	1	22.17	22.21	22.10			
100	PI2 BPSK	1	137	23.19	23.25	23.16	24.0	0.0	
100	PI2 BPSK	1	271	22.03	22.09	22.10			
100	PI2 BPSK	135	0	23.12	23.18	23.07	24.0	0.0	
100	PI2 BPSK	135	69	23.11	23.20	23.06	24.0	0.0	
100	PI2 BPSK	135	138	23.01	23.05	22.95	24.0	0.0	
100	PI2 BPSK	270	0	23.07	23.17	23.03			
100	QPSK	1	1	22.01	22.30	22.14			
100	QPSK	1	137	23.15	23.32	23.09	24.0	0.0	
100	QPSK	1	271	22.05	22.16	22.08			
100	QPSK	135	0	23.14	23.21	23.14	24.0	0.0	
100	QPSK	135	69	23.14	23.22	23.03	24.0	0.0	
100	QPSK	135	138	22.94	23.04	23.01	24.0	0.0	
100	QPSK	270	0	22.97	23.12	22.89			
100	HQAM	1	1	22.04	22.09	22.02	24.0	0.0	
100	HQAM	1	1	22.01	22.05	22.01	24.0	0.0	
100	SSGAM	1	1	21.06	21.16	21.11	22.5	1.5	
Channel				508200	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98	24.0	0.0	
90	QPSK	1	1	23.07	23.24	23.01	24.0	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2562.99	2649.98	24.0	0.0	
80	QPSK	1	1	23.01	23.21	22.99	24.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2436	2462.99	2609.98	24.0	0.0	
70	QPSK	1	1	23.04	23.23	22.95	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2326	2362.99	2469.98	24.0	0.0	
80	QPSK	1	1	23.07	23.19	22.99	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.98	24.0	0.0	
50	QPSK	1	1	23.08	23.20	23.01	24.0	0.0	
Channel				503202	518598	533998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2670	24.0	0.0	
40	QPSK	1	1	23.04	23.20	23.00	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2681.98	24.0	0.0	
30	QPSK	1	1	23.05	23.22	22.95	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.98	24.0	0.0	
20	QPSK	1	1	23.08	23.19	22.98	24.0	0.0	
Channel				500200	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2562.99	2662.48	24.0	0.0	
15	QPSK	1	1	23.01	23.18	23.01	24.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2562.99	2685	24.0	0.0	
10	QPSK	1	1	23.02	23.02	23.01	24.0	0.0	

n41 Ant1 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	526000			
Frequency (MHz)				2648.01	2662.99	2640			
100	PI2 BPSK	1	1	25.11	25.15	25.07			
100	PI2 BPSK	1	137	25.99	26.06	25.97	27.0	0.0	
100	PI2 BPSK	1	271	25.01	25.06	25.02			
100	PI2 BPSK	135	0	25.83	25.72	25.83	28.5	0.5	
100	PI2 BPSK	135	69	25.95	26.03	25.97	27.0	0.0	
100	PI2 BPSK	135	138	25.39	25.46	25.35	28.5	0.5	
100	PI2 BPSK	270	0	25.38	25.52	25.48			
100	QPSK	1	1	25.06	25.16	25.12			
100	QPSK	1	137	26.09	26.14	25.94	27.0	0.0	
100	QPSK	1	271	24.99	25.02	24.91			
100	QPSK	135	0	25.02	25.13	25.08	28.0	1.0	
100	QPSK	135	69	26.03	26.10	26.07	27.0	0.0	
100	QPSK	135	138	24.99	25.04	24.92	28.0	1.0	
100	QPSK	270	0	24.98	25.11	24.83			
100	HQAM	1	1	24.25	24.30	24.22	28.0	1.0	
100	HQAM	1	1	22.76	22.84	22.76	24.5	2.5	
100	SSGAM	1	1	19.26	19.36	19.31	22.5	4.5	
Channel				508200	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98	27.0	0.0	
90	QPSK	1	1	25.84	26.11	25.79	27.0	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2562.99	2649.98	27.0	0.0	
80	QPSK	1	1	25.97	26.00	25.83	27.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2436	2462.99	2609.98	27.0	0.0	
70	QPSK	1	1	26.05	26.02	25.86	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2326	2362.99	2469.98	27.0	0.0	
80	QPSK	1	1	25.98	26.10	25.83	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.98	27.0	0.0	
50	QPSK	1	1	25.98	26.03	25.90	27.0	0.0	
Channel				503202	518598	533998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2670	27.0	0.0	
40	QPSK	1	1	26.03	26.02	25.80	27.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2681.98	27.0	0.0	
30	QPSK	1	1	25.99	26.09	25.86	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.98	27.0	0.0	
20	QPSK	1	1	25.99	26.03	25.82	27.0	0.0	
Channel				500200	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2562.99	2662.48	27.0	0.0	
15	QPSK	1	1	26.04	26.00	25.88	27.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2562.99	2685	27.0	0.0	
10	QPSK	1	1	25.99	26.05	25.80	27.0	0.0	

Part270 n77 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	652000			
Frequency (MHz)				3700	3840	3800			
100	PI2 BPSK	1	1	19.12	19.22	19.17			
100	PI2 BPSK	1	137	19.98	20.03	19.96	21.0	0.0	
100	PI2 BPSK	1	271	19.05	19.11	19.05			
100	PI2 BPSK	135	0	19.94	19.97	19.90	21.0	0.0	
100	PI2 BPSK	135	69	19.94	20.04	19.98	21.0	0.0	
100	PI2 BPSK	135	138	19.80	19.88	19.82	21.0	0.0	
100	PI2 BPSK	270	0	19.81	19.95	19.86			
100	QPSK	1	1	19.34	19.37	19.19			
100	QPSK	1	137	20.08	20.25	20.01	21.0	0.0	
100	QPSK	1	271	18.91	19.02	18.87			
100	QPSK	135	0	19.86	20.00	19.87	21.0	0.0	
100	QPSK	135	69	20.17	20.21	19.96	21.0	0.0	
100	QPSK	135	138	19.87	19.96	19.81	21.0	0.0	
100	QPSK	270	0	19.91	20.07	19.84			
100	HQAM	1	1	19.01	19.08	18.94	21.0	0.0	
100	HQAM	1	1	18.86	19.01	18.94	21.0	0.0	
100	SSGAM	1	1	18.10	18.14	17.99	19.5	1.5	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3936.01	21.0	0.0	
90	QPSK	1	1	20.03	20.24	19.87	21.0	0.0	
Channel				645334	650000	656566	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3840.02	21.0	0.0	
80	QPSK	1	1	20.01	20.21	19.93	21.0	0.0	
Channel				643000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.00	3840	3850.01	21.0	0.0	
70	QPSK	1	1	20.04	20.23	19.91	21.0	0.0	
Channel				641668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.00	3840	3850.01	21.0	0.0	
80	QPSK	1	1	19.95	20.17	19.88	21.0	0.0	
Channel				640334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3855.02	21.0	0.0	
50	QPSK	1	1	20.01	20.25	19.95	21.0	0.0	
Channel				639000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.00	3840	3860	21.0	0.0	
40</									



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	19.68	19.74	19.82		
100	PI2 BPSK	1	137	20.51	20.47	20.44	21.0	0.0
100	PI2 BPSK	1	271	19.51	19.60	19.52		
100	PI2 BPSK	135	0	20.38	20.41	20.35	21.0	0.0
100	PI2 BPSK	135	69	20.46	20.52	20.48	21.0	0.0
100	PI2 BPSK	135	138	20.35	20.37	20.35	21.0	0.0
100	PI2 BPSK	270	0	20.38	20.48	20.35		
100	QPSK	1	1	19.91	19.77	19.75		
100	QPSK	1	137	20.58	20.78	20.51	21.0	0.0
100	QPSK	1	271	19.34	19.48	19.43		
100	QPSK	135	0	20.39	20.45	20.41	21.0	0.0
100	QPSK	135	69	20.67	20.74	20.39	21.0	0.0
100	QPSK	135	138	20.44	20.52	20.25	21.0	0.0
100	QPSK	270	0	20.34	20.58	20.41		
100	16QAM	1	1	19.53	19.56	19.50	21.0	0.0
100	16QAM	1	1	19.40	19.53	19.46	21.0	0.0
100	256QAM	1	1	18.23	18.33	18.34	19.5	1.5
Channel								
Frequency (MHz)				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.35	20.45	20.27	21.0	0.0
Channel								
Frequency (MHz)				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				20.33	20.49	20.30	21.0	0.0
80	QPSK	1	1	20.33	20.49	20.30	21.0	0.0
Channel								
Frequency (MHz)				64900	65000	65000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.34	20.53	20.34	21.0	0.0
Channel								
Frequency (MHz)				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.02	3840	3940.01	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				64834	65000	65068	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.34	20.43	20.28	21.0	0.0
Channel								
Frequency (MHz)				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.43	20.44	20.28	21.0	0.0
Channel								
Frequency (MHz)				64768	65000	65034	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.38	20.45	20.28	21.0	0.0
Channel								
Frequency (MHz)				64734	65000	65068	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.41	20.47	20.34	21.0	0.0
Channel								
Frequency (MHz)				64702	65000	65034	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.40	20.52	20.29	21.0	0.0
Channel								
Frequency (MHz)				64600	65000	65000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.32	20.48	20.29	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63334				
100	PI2 BPSK	1	1		19.26			
100	PI2 BPSK	1	137		20.28		21.0	0.0
100	PI2 BPSK	1	271		19.41			
100	PI2 BPSK	135	0		20.12		21.0	0.0
100	PI2 BPSK	135	69		20.24		21.0	0.0
100	PI2 BPSK	135	138		20.19		21.0	0.0
100	PI2 BPSK	270	0		20.11			
100	QPSK	1	1		19.33			
100	QPSK	1	137		20.34		21.0	0.0
100	QPSK	1	271		19.46			
100	QPSK	135	0		20.15		21.0	0.0
100	QPSK	135	69		20.29		21.0	0.0
100	QPSK	135	138		20.16		21.0	0.0
100	QPSK	270	0		20.08			
100	16QAM	1	1		19.18		21.0	0.0
100	16QAM	1	1		19.13		21.0	0.0
100	256QAM	1	1		18.21		19.5	1.5
Channel								
Frequency (MHz)				63300	63334	63368	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3495	3500.01	3505.02	3505.02	21.0
Channel								
Frequency (MHz)				63268	63334	63400	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3490.02	3500.01	3510	3510	21.0
Channel								
Frequency (MHz)				20.13	20.24	20.17	21.0	0.0
80	QPSK	1	1	20.13	20.24	20.17	21.0	0.0
Channel								
Frequency (MHz)				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3490	3500.01	3500.02	3500.02	21.0
Channel								
Frequency (MHz)				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.21	20.29	20.20	21.0	0.0
Channel								
Frequency (MHz)				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.12	20.31	20.12	21.0	0.0
Channel								
Frequency (MHz)				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.14	20.21	20.19	21.0	0.0
Channel								
Frequency (MHz)				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.11	20.20	20.14	21.0	0.0
Channel								
Frequency (MHz)				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.14	20.26	20.19	21.0	0.0
Channel								
Frequency (MHz)				63030	63334	63634	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.14	20.29	20.18	21.0	0.0
Channel								
Frequency (MHz)				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.21	20.30	20.20	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63334				
100	PI2 BPSK	1	1		19.71			
100	PI2 BPSK	1	137		20.72		21.0	0.0
100	PI2 BPSK	1	271		19.90			
100	PI2 BPSK	135	0		20.68		21.0	0.0
100	PI2 BPSK	135	69		20.79		21.0	0.0
100	PI2 BPSK	135	138		20.85		21.0	0.0
100	PI2 BPSK	270	0		20.82			
100	QPSK	1	1		19.89			
100	QPSK	1	137		20.99		21.0	0.0
100	QPSK	1	271		19.98			
100	QPSK	135	0		20.59		21.0	0.0
100	QPSK	135	69		20.62		21.0	0.0
100	QPSK	135	138		20.94		21.0	0.0
100	QPSK	270	0		20.58			
100	16QAM	1	1		19.84		21.0	0.0
100	16QAM	1	1		19.80		21.0	0.0
100	256QAM	1	1		18.73		19.5	1.5
Channel								
Frequency (MHz)				63300	63334	63368	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.55	20.63	20.60	21.0	0.0
Channel								
Frequency (MHz)				63268	63334	63400	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.63	20.76	20.64	21.0	0.0
Channel								
Frequency (MHz)				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.56	20.63	20.69	21.0	0.0
Channel								
Frequency (MHz)				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.62	20.69	20.72	21.0	0.0
Channel								
Frequency (MHz)				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.65	20.70	20.67	21.0	0.0
Channel								
Frequency (MHz)				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.57	20.63	20.61	21.0	0.0
Channel								
Frequency (MHz)				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.55	20.72	20.64	21.0	0.0
Channel								
Frequency (MHz)				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.58	20.62	20.67	21.0	0.0
Channel								
Frequency (MHz)				63030	63334	63634	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.60	20.75	20.69	21.0	0.0
Channel								
Frequency (MHz)				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.59	20.65	20.64	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3745.02				
100	PI2 BPSK	1	1	19.37				
100	PI2 BPSK	1	137	20.31			21.0	0.0
100	PI2 BPSK	1	271	19.29				
100	PI2 BPSK	135	0	20.14			21.0	0.0
100	PI2 BPSK	135	69	20.31			21.0	0.0
100	PI2 BPSK	135	138	20.09			21.0	0.0
100	PI2 BPSK	270	0	20.03				
100	QPSK	1	1	19.42			21.0	0.0
100	QPSK	1	137	20.37				
100	QPSK	1	271	19.33				
100	QPSK	135	0	20.19			21.0	0.0
100	QPSK	135	69	20.33			21.0	0.0
100	QPSK	135	138	20.14			21.0	0.0
100	QPSK	270	0	20.06				
100	16QAM	1	1	19.21			21.0	0.0
100	16QAM	1	1	19.15			21.0	0.0
100	256QAM	1	1	18.27			19.5	1.5
Channel				649668	650000	650334	Tune-up limit (dB)	MPR
Frequency (MHz)				3745.02	3750	3755.01	21.0	0.0
90	QPSK	1	1	20.29	20.32	20.21	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dB)	MPR
Frequency (MHz)				3740.01	3750	3760.02	21.0	0.0
80	QPSK	1	1	20.25	20.30	20.24	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dB)	MPR
Frequency (MHz)				3735.01	3750	3765.01	21.0	0.0
70	QPSK	1	1	20.20	20.33	20.16	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dB)	MPR
Frequency (MHz)				3730.02	3750	3770.01	21.0	0.0
60	QPSK	1	1	20.22	20.26	20.17	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dB)	MPR
Frequency (MHz)				3725.01	3750	3775.02	21.0	0.0
50	QPSK	1	1	20.25	20.28	20.21	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dB)	MPR
Frequency (MHz)				3720	3750	3780	21.0	0.0
40	QPSK	1	1	20.20	20.26	20.19	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dB)	MPR
Frequency (MHz)				3715.01	3750	3785.01	21.0	0.0
30	QPSK	1	1	20.28	20.22	20.20	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dB)	MPR
Frequency (MHz)				3710.01	3750	3790.02	21.0	0.0
20	QPSK	1	1	20.24	20.25	20.21	21.0	0.0
Channel				647000	650000	653000	Tune-up limit (dB)	MPR
Frequency (MHz)				3707.52	3750	3792.51	21.0	0.0
15	QPSK	1	1	20.30	20.30	20.25	21.0	0.0
Channel				646668	650000	653334	Tune-up limit (dB)	MPR
Frequency (MHz)				3705	3750	3795	21.0	0.0
10	QPSK	1	1	20.25	20.32	20.22	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3745.02				
100	PI2 BPSK	1	1	19.61				
100	PI2 BPSK	1	137	20.49			21.0	0.0
100	PI2 BPSK	1	271	19.55				
100	PI2 BPSK	135	0	20.34			21.0	0.0
100	PI2 BPSK	135	69	20.53			21.0	0.0
100	PI2 BPSK	135	138	20.26			21.0	0.0
100	PI2 BPSK	270	0	20.18				
100	QPSK	1	1	19.82			21.0	0.0
100	QPSK	1	137	20.55				
100	QPSK	1	271	19.48				
100	QPSK	135	0	20.42			21.0	0.0
100	QPSK	135	69	20.53			21.0	0.0
100	QPSK	135	138	20.27			21.0	0.0
100	QPSK	270	0	20.26				
100	16QAM	1	1	19.36			21.0	0.0
100	16QAM	1	1	19.34			21.0	0.0
100	256QAM	1	1	18.43			19.5	1.5
Channel				649668	650000	650334	Tune-up limit (dB)	MPR
Frequency (MHz)				3745.02	3750	3755.01	21.0	0.0
90	QPSK	1	1	20.47	20.48	20.47	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dB)	MPR
Frequency (MHz)				3740.01	3750	3760.02	21.0	0.0
80	QPSK	1	1	20.48	20.46	20.45	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dB)	MPR
Frequency (MHz)				3735.01	3750	3765.01	21.0	0.0
70	QPSK	1	1	20.44	20.49	20.38	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dB)	MPR
Frequency (MHz)				3730.02	3750	3770.01	21.0	0.0
60	QPSK	1	1	20.49	20.45	20.45	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dB)	MPR
Frequency (MHz)				3725.01	3750	3775.02	21.0	0.0
50	QPSK	1	1	20.51	20.51	20.43	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dB)	MPR
Frequency (MHz)				3720	3750	3780	21.0	0.0
40	QPSK	1	1	20.52	20.53	20.38	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dB)	MPR
Frequency (MHz)				3715.01	3750	3785.01	21.0	0.0
30	QPSK	1	1	20.52	20.51	20.40	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dB)	MPR
Frequency (MHz)				3710.01	3750	3790.02	21.0	0.0
20	QPSK	1	1	20.48	20.47	20.40	21.0	0.0
Channel				647000	650000	653000	Tune-up limit (dB)	MPR
Frequency (MHz)				3707.52	3750	3792.51	21.0	0.0
15	QPSK	1	1	20.54	20.52	20.47	21.0	0.0
Channel				646668	650000	653334	Tune-up limit (dB)	MPR
Frequency (MHz)				3705	3750	3795	21.0	0.0
10	QPSK	1	1	20.48	20.54	20.46	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3490.02				
100	PI2 BPSK	1	1	19.18				
100	PI2 BPSK	1	137	20.06			21.0	0.0
100	PI2 BPSK	1	271	19.48				
100	PI2 BPSK	135	0	19.84			21.0	0.0
100	PI2 BPSK	135	69	19.79			21.0	0.0
100	PI2 BPSK	135	138	19.92			21.0	0.0
100	PI2 BPSK	270	0	19.74				
100	QPSK	1	1	19.34			21.0	0.0
100	QPSK	1	137	20.13				
100	QPSK	1	271	19.52				
100	QPSK	135	0	19.69			21.0	0.0
100	QPSK	135	69	20.04			21.0	0.0
100	QPSK	135	138	19.87			21.0	0.0
100	QPSK	270	0	19.95				
100	16QAM	1	1	18.83			21.0	0.0
100	16QAM	1	1	18.79			21.0	0.0
100	256QAM	1	1	18.25			19.5	1.5
Channel				633000	633334	633668	Tune-up limit (dB)	MPR
Frequency (MHz)				3495	3500.01	3505.02	21.0	0.0
90	QPSK	1	1	20.04	20.06	19.69	21.0	0.0
Channel				632668	633334	634000	Tune-up limit (dB)	MPR
Frequency (MHz)				3490.02	3500.01	3510.01	21.0	0.0
80	QPSK	1	1	19.99	20.01	19.92	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dB)	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	21.0	0.0
70	QPSK	1	1	19.96	20.07	19.87	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dB)	MPR
Frequency (MHz)				3480.01	3500.01	3520.02	21.0	0.0
60	QPSK	1	1	20.04	20.01	19.93	21.0	0.0
Channel				631668	633334	635000	Tune-up limit (dB)	MPR
Frequency (MHz)				3475.02	3500.01	3525	21.0	0.0
50	QPSK	1	1	20.01	20.08	19.86	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dB)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	21.0	0.0
40	QPSK	1	1	20.00	20.03	19.86	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dB)	MPR
Frequency (MHz)				3465.01	3500.01	3535.01	21.0	0.0
30	QPSK	1	1	19.99	19.98	19.86	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dB)	MPR
Frequency (MHz)				3460.02	3500.01	3540	21.0	0.0
20	QPSK	1	1	19.97	20.09	19.84	21.0	0.0
Channel				630334	633334	636334	Tune-up limit (dB)	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	21.0	0.0
15	QPSK	1	1	19.96	19.99	19.93	21.0	0.0
Channel				630000	633334	636668	Tune-up limit (dB)	MPR
Frequency (MHz)				3450.01	3500.01	3545.01	21.0	0.0
10	QPSK	1	1	19.97	20.04	19.89	21.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3609.01				
100	PI2 BPSK	1	1		19.42			
100	PI2 BPSK	1	137		20.38		21.0	0.0
100	PI2 BPSK	1	271		19.82			
100	PI2 BPSK	135	0		19.97		21.0	0.0
100	PI2 BPSK	135	69		20.11		21.0	0.0
100	PI2 BPSK	135	138		20.19		21.0	0.0
100	PI2 BPSK	270	0		20.04			
100	QPSK	1	1		19.90			
100	QPSK	1	137		20.45		21.0	0.0
100	QPSK	1	271		19.87			
100	QPSK	135	0		19.97		21.0	0.0
100	QPSK	135	69		20.35		21.0	0.0
100	QPSK	135	138		20.20		21.0	0.0
100	QPSK	270	0		20.21			
100	16QAM	1	1		19.15		21.0	0.0
100	64QAM	1	1		18.14		21.0	0.0
100	256QAM	1	1		18.55		19.5	1.5
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	20.38	20.35	20.13	21.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3469.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	20.38	20.31	20.15	21.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3483.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	20.37	20.38	20.16	21.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3486	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	20.30	20.32	20.20	21.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	20.35	20.33	20.24	21.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	20.39	20.38	20.16	21.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	20.33	20.37	20.23	21.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	20.32	20.37	20.28	21.0	0.0
Channel				630300	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3467.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	20.32	20.42	20.25	21.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3458.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	20.29	20.39	20.17	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505202	518598	526000			
Frequency (MHz)				2648.01	2662.99	2660			
100	PI2 BPSK	1	1	22.27	22.35	22.23			
100	PI2 BPSK	1	137	23.45	23.52	23.41	24.0	0.0	
100	PI2 BPSK	1	271	22.33	22.42	22.37			
100	PI2 BPSK	135	0	23.41	23.44	23.31	24.0	0.0	
100	PI2 BPSK	135	69	23.38	23.48	23.38	24.0	0.0	
100	PI2 BPSK	135	138	23.26	23.38	23.32	24.0	0.0	
100	PI2 BPSK	270	0	23.32	23.41	23.31			
100	QPSK	1	1	22.08	22.42	22.74			
100	QPSK	1	137	23.31	23.60	23.26	24.0	0.0	
100	QPSK	1	271	22.30	22.34	22.21			
100	QPSK	135	0	23.44	23.52	23.41	24.0	0.0	
100	QPSK	135	69	23.23	23.36	23.18	24.0	0.0	
100	QPSK	135	138	23.19	23.32	23.21	24.0	0.0	
100	QPSK	270	0	23.06	23.42	23.11			
100	16QAM	1	1	22.17	22.23	22.14	24.0	0.0	
100	16QAM	1	1	22.06	22.18	22.04	24.0	0.0	
100	256QAM	1	1	21.28	21.38	21.32	22.5	1.5	
Channel				508200	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98	24.0	0.0	
90	QPSK	1	1	23.25	23.50	23.18	24.0	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2562.99	2649.98	24.0	0.0	
80	QPSK	1	1	23.24	23.47	23.21	24.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2562.99	2659.98	24.0	0.0	
70	QPSK	1	1	23.20	23.48	23.23	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2532	2562.99	2659.98	24.0	0.0	
80	QPSK	1	1	23.27	23.58	23.16	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.98	24.0	0.0	
50	QPSK	1	1	23.21	23.51	23.20	24.0	0.0	
Channel				503202	518598	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2562.99	2665	24.0	0.0	
40	QPSK	1	1	23.17	23.45	23.13	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.98	24.0	0.0	
30	QPSK	1	1	23.19	23.53	23.13	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.98	24.0	0.0	
20	QPSK	1	1	23.18	23.54	23.21	24.0	0.0	
Channel				500700	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2562.99	2682.48	24.0	0.0	
15	QPSK	1	1	23.19	23.51	23.16	24.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2562.99	2685	24.0	0.0	
10	QPSK	1	1	23.27	23.48	23.13	24.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	526000			
Frequency (MHz)				2648.01	2662.99	2660			
100	PI2 BPSK	1	1	24.46	24.55	24.41			
100	PI2 BPSK	1	137	25.42	25.52	25.38	27.0	0.0	
100	PI2 BPSK	1	271	24.37	24.49	24.37			
100	PI2 BPSK	135	0	25.11	25.14	25.00	28.5	0.5	
100	PI2 BPSK	135	69	25.43	25.47	25.32	27.0	0.0	
100	PI2 BPSK	135	138	24.83	24.92	24.78	28.5	0.5	
100	PI2 BPSK	270	0	24.83	24.86	24.85			
100	QPSK	1	1	24.26	24.80	24.57			
100	QPSK	1	137	25.53	25.58	25.45	27.0	0.0	
100	QPSK	1	271	24.48	24.57	24.51			
100	QPSK	135	0	24.37	24.50	24.39	28.0	1.0	
100	QPSK	135	69	25.48	25.52	25.40	27.0	0.0	
100	QPSK	135	138	24.40	24.43	24.36	28.0	1.0	
100	QPSK	270	0	24.35	24.55	24.28			
100	16QAM	1	1	23.80	23.72	23.64	28.0	1.0	
100	16QAM	1	1	22.20	22.27	22.22	24.5	2.5	
100	256QAM	1	1	18.68	18.81	18.70	22.5	4.5	
Channel				508200	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98	27.0	0.0	
90	QPSK	1	1	25.48	25.51	25.31	27.0	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2562.99	2649.98	27.0	0.0	
80	QPSK	1	1	25.41	25.45	25.32	27.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2562.99	2659.98	27.0	0.0	
70	QPSK	1	1	25.39	25.48	25.38	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2532	2562.99	2659.98	27.0	0.0	
80	QPSK	1	1	25.46	25.50	25.33	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.98	27.0	0.0	
50	QPSK	1	1	25.44	25.47	25.37	27.0	0.0	
Channel				503202	518598	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2562.99	2665	27.0	0.0	
40	QPSK	1	1	25.45	25.50	25.40	27.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.98	27.0	0.0	
30	QPSK	1	1	25.46	25.45	25.39	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.98	27.0	0.0	
20	QPSK	1	1	25.49	25.58	25.31	27.0	0.0	
Channel				500700	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2562.99	2682.48	27.0	0.0	
15	QPSK	1	1	25.39	25.50	25.41	27.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2562.99	2685	27.0	0.0	
10	QPSK	1	1	25.44	25.53	25.32	27.0	0.0	

Part270 n77 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	652000			
Frequency (MHz)				3740.01	3840	3840			
100	PI2 BPSK	1	1	19.59	19.83	19.48			
100	PI2 BPSK	1	137	20.43	20.45	20.39	21.0	0.0	
100	PI2 BPSK	1	271	19.34	19.47	19.44			
100	PI2 BPSK	135	0	20.26	20.41	20.31	21.0	0.0	
100	PI2 BPSK	135	69	20.38	20.48	20.34	21.0	0.0	
100	PI2 BPSK	135	138	20.23	20.38	20.27	21.0	0.0	
100	PI2 BPSK	270	0	20.25	20.44	20.26			
100	QPSK	1	1	19.74	19.70	19.52			
100	QPSK	1	137	20.53	20.54	20.29	21.0	0.0	
100	QPSK	1	271	19.40	19.49	19.34			
100	QPSK	135	0	20.30	20.44	20.38	21.0	0.0	
100	QPSK	135	69	20.39	20.50	20.40	21.0	0.0	
100	QPSK	135	138	20.36	20.37	20.28	21.0	0.0	
100	QPSK	270	0	20.37	20.47	20.32			
100	16QAM	1	1	19.33	19.44	19.38	21.0	0.0	
100	16QAM	1	1	19.62	19.75	19.66	21.0	0.0	
100	256QAM	1	1	18.78	18.82	18.73	19.5	1.5	
Channel				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3936.01	21.0	0.0	
90	QPSK	1	1	20.43	20.48	20.38	21.0	0.0	
Channel				645334	650000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3840.02	21.0	0.0	
80	QPSK	1	1	20.49	20.47	20.16	21.0	0.0	
Channel				640000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3723.02	3840	3861.01	21.0	0.0	
70	QPSK	1	1	20.45	20.46	20.19	21.0	0.0	
Channel				645668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3723.02	3840	3861.01	21.0	0.0	
80	QPSK	1	1	20.46	20.40	20.16	21.0	0.0	
Channel				643334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3965.02	21.0	0.0	
50	QPSK	1	1	20.52	20.48	20.18	21.0	0.0	
Channel				640000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3860	21.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	19.90	19.95	19.81		
100	PI2 BPSK	1	137	20.70	20.81	20.75	21.0	0.0
100	PI2 BPSK	1	271	19.89	19.79	19.76		
100	PI2 BPSK	135	0	20.59	20.71	20.64	21.0	0.0
100	PI2 BPSK	135	69	20.70	20.76	20.66	21.0	0.0
100	PI2 BPSK	135	138	20.56	20.62	20.51	21.0	0.0
100	PI2 BPSK	270	0	20.58	20.70	20.60		
100	QPSK	1	1	19.97	20.02	19.79		
100	QPSK	1	137	20.81	20.87	20.65	21.0	0.0
100	QPSK	1	271	19.72	19.84	19.69		
100	QPSK	135	0	20.83	20.77	20.85	21.0	0.0
100	QPSK	135	69	20.75	20.82	20.76	21.0	0.0
100	QPSK	135	138	20.63	20.67	20.61	21.0	0.0
100	QPSK	270	0	20.69	20.74	20.56		
100	16QAM	1	1	19.70	19.79	19.86	21.0	0.0
100	16QAM	1	1	19.82	19.75	19.66	21.0	0.0
100	256QAM	1	1	18.31	18.43	18.30	19.5	1.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745.02	3840	3505.01	21.0	0.0
Channel								
Frequency (MHz)				649314	650000	650368	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3500.02	21.0	0.0
Channel								
Frequency (MHz)				649000	650000	650300	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.69	20.81	20.60	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.72	20.82	20.56	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	650368	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.77	20.79	20.52	21.0	0.0
Channel								
Frequency (MHz)				648000	650000	650300	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.71	20.62	20.51	21.0	0.0
Channel								
Frequency (MHz)				647668	650000	650334	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.74	20.80	20.63	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	650368	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.68	20.77	20.55	21.0	0.0
Channel								
Frequency (MHz)				647000	650000	650300	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.71	20.80	20.53	21.0	0.0
Channel								
Frequency (MHz)				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.73	20.76	20.55	21.0	0.0
Channel								
Frequency (MHz)				646334	650000	650368	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.67	20.79	20.53	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633334				
100	PI2 BPSK	1	1		19.16			
100	PI2 BPSK	1	137		20.23		21.0	0.0
100	PI2 BPSK	1	271		19.77			
100	PI2 BPSK	135	0		19.96		21.0	0.0
100	PI2 BPSK	135	69		20.15		21.0	0.0
100	PI2 BPSK	135	138		20.09		21.0	0.0
100	PI2 BPSK	270	0		20.17			
100	QPSK	1	1		19.23			
100	QPSK	1	137		20.30		21.0	0.0
100	QPSK	1	271		19.84			
100	QPSK	135	0		19.88		21.0	0.0
100	QPSK	135	69		20.22		21.0	0.0
100	QPSK	135	138		20.05		21.0	0.0
100	QPSK	270	0		20.16			
100	16QAM	1	1		19.01		21.0	0.0
100	16QAM	1	1		18.95		21.0	0.0
100	256QAM	1	1		18.59		19.5	1.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3495	3500.01	3505.02	21.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.11	20.20	20.02	21.0	0.0
Channel								
Frequency (MHz)				632334	633334	634634	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.18	20.27	20.06	21.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.09	20.21	20.03	21.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.18	20.23	20.02	21.0	0.0
Channel								
Frequency (MHz)				631334	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.13	20.17	20.02	21.0	0.0
Channel								
Frequency (MHz)				631000	633334	635000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.08	20.19	20.07	21.0	0.0
Channel								
Frequency (MHz)				630668	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.14	20.21	20.06	21.0	0.0
Channel								
Frequency (MHz)				630334	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.19	20.26	20.05	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.17	20.18	20.03	21.0	0.0
Channel								
Frequency (MHz)				629668	633334	636334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.14	20.16	20.10	21.0	0.0

Part27Q n77 Ant2 PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633334				
100	PI2 BPSK	1	1		19.81			
100	PI2 BPSK	1	137		20.59		21.0	0.0
100	PI2 BPSK	1	271		20.15			
100	PI2 BPSK	135	0		20.38		21.0	0.0
100	PI2 BPSK	135	69		20.58		21.0	0.0
100	PI2 BPSK	135	138		20.44		21.0	0.0
100	PI2 BPSK	270	0		20.83			
100	QPSK	1	1		19.57			
100	QPSK	1	137		20.66		21.0	0.0
100	QPSK	1	271		20.17			
100	QPSK	135	0		20.33		21.0	0.0
100	QPSK	135	69		20.60		21.0	0.0
100	QPSK	135	138		20.49		21.0	0.0
100	QPSK	270	0		20.53			
100	16QAM	1	1		19.42		21.0	0.0
100	16QAM	1	1		19.37		21.0	0.0
100	256QAM	1	1		18.98		19.5	1.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.37	20.45	20.28	21.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.37	20.47	20.32	21.0	0.0
Channel								
Frequency (MHz)				632334	633334	634634	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.34	20.45	20.32	21.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.34	20.45	20.32	21.0	0.0
Channel								
Frequency (MHz)				631668	633334	634668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.35	20.45	20.32	21.0	0.0
Channel								
Frequency (MHz)				631334	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.47	20.44	20.32	21.0	0.0
Channel								
Frequency (MHz)				631000	633334	635000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.44	20.47	20.26	21.0	0.0
Channel								
Frequency (MHz)				630668	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.45	20.49	20.38	21.0	0.0
Channel								
Frequency (MHz)				630334	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.47	20.54	20.37	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.39	20.53	20.33	21.0	0.0
Channel								
Frequency (MHz)				629668	633334	636334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.35	20.47	20.36	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
3760				3760	3760	3760		
100	PI2 BPSK	1	1	19.43	19.43	19.43	21.0	0.0
100	PI2 BPSK	1	137	20.36	20.36	20.36	21.0	0.0
100	PI2 BPSK	1	271	19.30	19.30	19.30	21.0	0.0
100	PI2 BPSK	135	0	20.16	20.16	20.16	21.0	0.0
100	PI2 BPSK	135	69	20.36	20.36	20.36	21.0	0.0
100	PI2 BPSK	135	138	20.25	20.25	20.25	21.0	0.0
100	PI2 BPSK	270	0	20.26	20.26	20.26	21.0	0.0
100	QPSK	1	1	19.43	19.43	19.43	21.0	0.0
100	QPSK	1	137	20.36	20.36	20.36	21.0	0.0
100	QPSK	1	271	19.36	19.36	19.36	21.0	0.0
100	QPSK	135	0	20.28	20.28	20.28	21.0	0.0
100	QPSK	135	69	20.31	20.31	20.31	21.0	0.0
100	QPSK	135	138	20.24	20.24	20.24	21.0	0.0
100	QPSK	270	0	20.31	20.31	20.31	21.0	0.0
100	16QAM	1	1	19.25	19.25	19.25	21.0	0.0
100	16QAM	1	1	19.20	19.20	19.20	21.0	0.0
100	256QAM	1	1	18.82	18.82	18.82	19.5	1.5
Channel								
Frequency (MHz)				64868	65000	65034	Tune-up limit (dB)	MPR
3745.02				3760	3765.01	3765.01	21.0	0.0
90	QPSK	1	1	20.25	20.31	20.14	21.0	0.0
Channel								
Frequency (MHz)				64234	65000	65068	Tune-up limit (dB)	MPR
3740.01				3760	3760.02	3760.02	21.0	0.0
80	QPSK	1	1	20.16	20.28	20.12	21.0	0.0
Channel								
Frequency (MHz)				64800	65000	65100	Tune-up limit (dB)	MPR
3740.02				3760	3760.01	3760.01	21.0	0.0
70	QPSK	1	1	20.23	20.23	20.12	21.0	0.0
Channel								
Frequency (MHz)				64868	65000	65134	Tune-up limit (dB)	MPR
3740.02				3760	3760.01	3760.01	21.0	0.0
80	QPSK	1	1	20.22	20.23	20.12	21.0	0.0
Channel								
Frequency (MHz)				64834	65000	65168	Tune-up limit (dB)	MPR
3725.01				3760	3775.02	3775.02	21.0	0.0
50	QPSK	1	1	20.27	20.21	20.19	21.0	0.0
Channel								
Frequency (MHz)				64800	65000	65100	Tune-up limit (dB)	MPR
3720				3760	3760	3760	21.0	0.0
40	QPSK	1	1	20.28	20.20	20.19	21.0	0.0
Channel								
Frequency (MHz)				64768	65000	65234	Tune-up limit (dB)	MPR
3740.02				3760	3765.01	3765.01	21.0	0.0
30	QPSK	1	1	20.25	20.19	20.20	21.0	0.0
Channel								
Frequency (MHz)				64734	65000	65268	Tune-up limit (dB)	MPR
3740.01				3760	3765.02	3765.02	21.0	0.0
20	QPSK	1	1	20.22	20.21	20.15	21.0	0.0
Channel								
Frequency (MHz)				64768	65000	65234	Tune-up limit (dB)	MPR
3707.52				3760	3762.51	3762.51	21.0	0.0
15	QPSK	1	1	20.24	20.29	20.13	21.0	0.0
Channel								
Frequency (MHz)				64700	65000	65300	Tune-up limit (dB)	MPR
3705				3760	3765	3765	21.0	0.0
10	QPSK	1	1	20.24	20.23	20.20	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
3760				3760	3760	3760		
100	PI2 BPSK	1	1	19.82	19.82	19.82	21.0	0.0
100	PI2 BPSK	1	137	20.68	20.68	20.68	21.0	0.0
100	PI2 BPSK	1	271	19.64	19.64	19.64	21.0	0.0
100	PI2 BPSK	135	0	20.58	20.58	20.58	21.0	0.0
100	PI2 BPSK	135	69	20.64	20.64	20.64	21.0	0.0
100	PI2 BPSK	135	138	20.49	20.49	20.49	21.0	0.0
100	PI2 BPSK	270	0	20.62	20.62	20.62	21.0	0.0
100	QPSK	1	1	19.76	19.76	19.76	21.0	0.0
100	QPSK	1	137	20.82	20.82	20.82	21.0	0.0
100	QPSK	1	271	19.71	19.71	19.71	21.0	0.0
100	QPSK	135	0	20.64	20.64	20.64	21.0	0.0
100	QPSK	135	69	20.66	20.66	20.66	21.0	0.0
100	QPSK	135	138	20.56	20.56	20.56	21.0	0.0
100	QPSK	270	0	20.59	20.59	20.59	21.0	0.0
100	16QAM	1	1	19.83	19.83	19.83	21.0	0.0
100	16QAM	1	1	19.80	19.80	19.80	21.0	0.0
100	256QAM	1	1	19.57	19.57	19.57	19.5	1.5
Channel								
Frequency (MHz)				64868	65000	65034	Tune-up limit (dB)	MPR
3745.02				3760	3765.01	3765.01	21.0	0.0
90	QPSK	1	1	20.58	20.48	20.53	21.0	0.0
Channel								
Frequency (MHz)				64234	65000	65068	Tune-up limit (dB)	MPR
3740.01				3760	3760.02	3760.02	21.0	0.0
80	QPSK	1	1	20.55	20.54	20.55	21.0	0.0
Channel								
Frequency (MHz)				64800	65000	65100	Tune-up limit (dB)	MPR
3740.02				3760	3760.01	3760.01	21.0	0.0
70	QPSK	1	1	20.55	20.50	20.52	21.0	0.0
Channel								
Frequency (MHz)				64868	65000	65134	Tune-up limit (dB)	MPR
3740.02				3760	3760.01	3760.01	21.0	0.0
80	QPSK	1	1	20.49	20.59	20.43	21.0	0.0
Channel								
Frequency (MHz)				64834	65000	65168	Tune-up limit (dB)	MPR
3725.01				3760	3775.02	3775.02	21.0	0.0
50	QPSK	1	1	20.54	20.59	20.49	21.0	0.0
Channel								
Frequency (MHz)				64800	65000	65100	Tune-up limit (dB)	MPR
3720				3760	3760	3760	21.0	0.0
40	QPSK	1	1	20.48	20.52	20.49	21.0	0.0
Channel								
Frequency (MHz)				64768	65000	65234	Tune-up limit (dB)	MPR
3740.02				3760	3765.01	3765.01	21.0	0.0
30	QPSK	1	1	20.53	20.61	20.55	21.0	0.0
Channel								
Frequency (MHz)				64734	65000	65268	Tune-up limit (dB)	MPR
3740.01				3760	3765.02	3765.02	21.0	0.0
20	QPSK	1	1	20.58	20.49	20.51	21.0	0.0
Channel								
Frequency (MHz)				64768	65000	65234	Tune-up limit (dB)	MPR
3707.52				3760	3762.51	3762.51	21.0	0.0
15	QPSK	1	1	20.48	20.52	20.46	21.0	0.0
Channel								
Frequency (MHz)				64700	65000	65300	Tune-up limit (dB)	MPR
3705				3760	3765	3765	21.0	0.0
10	QPSK	1	1	20.51	20.61	20.44	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63000	63334	63668		
3490				3490	3500.01	3506.02		
100	PI2 BPSK	1	1	19.82	19.82	19.82	21.0	0.0
100	PI2 BPSK	1	137	20.03	20.03	20.03	21.0	0.0
100	PI2 BPSK	1	271	19.88	19.88	19.88	21.0	0.0
100	PI2 BPSK	135	0	19.43	19.43	19.43	21.0	0.0
100	PI2 BPSK	135	69	19.89	19.89	19.89	21.0	0.0
100	PI2 BPSK	135	138	19.83	19.83	19.83	21.0	0.0
100	PI2 BPSK	270	0	19.91	19.91	19.91	21.0	0.0
100	QPSK	1	1	19.87	19.87	19.87	21.0	0.0
100	QPSK	1	137	20.06	20.06	20.06	21.0	0.0
100	QPSK	1	271	19.73	19.73	19.73	21.0	0.0
100	QPSK	135	0	19.49	19.49	19.49	21.0	0.0
100	QPSK	135	69	19.54	19.54	19.54	21.0	0.0
100	QPSK	135	138	19.82	19.82	19.82	21.0	0.0
100	QPSK	270	0	19.89	19.89	19.89	21.0	0.0
100	16QAM	1	1	18.88	18.88	18.88	21.0	0.0
100	16QAM	1	1	18.82	18.82	18.82	21.0	0.0
100	256QAM	1	1	18.53	18.53	18.53	19.5	1.5
Channel								
Frequency (MHz)				63000	63334	63668	Tune-up limit (dB)	MPR
3490				3490	3500.01	3506.02	21.0	0.0
90	QPSK	1	1	19.98	19.95	19.87	21.0	0.0
Channel								
Frequency (MHz)				63368	63334	63400	Tune-up limit (dB)	MPR
3490.02				3500.01	3510	3510	21.0	0.0
80	QPSK	1	1	19.93	19.98	19.85	21.0	0.0
Channel								
Frequency (MHz)				63234	63334	63434	Tune-up limit (dB)	MPR
3490				3500.01	3500.02	3510.02	21.0	0.0
70	QPSK	1	1	19.95	19.99	19.84	21.0	0.0
Channel								
Frequency (MHz)				63000	63334	63668	Tune-up limit (dB)	MPR
3490				3500.01	3500.02	3510.02	21.0	0.0
80	QPSK	1	1	19.91	20.03	19.95	21.0	0.0
Channel								
Frequency (MHz)				63168	63334	63500	Tune-up limit (dB)	MPR
3475.02				3500.01	3525	3525	21.0	0.0
50	QPSK	1	1	19.91	20.04	19.88	21.0	0.0
Channel								
Frequency (MHz)				63100	63334	63668	Tune-up limit (dB)	MPR
3470.01				3500.01	3530.01	3530.01	21.0	0.0
40								



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3609.01				
100	PI2 BPSK	1	1		19.16			
100	PI2 BPSK	1	137		20.38		21.0	0.0
100	PI2 BPSK	1	271		20.00			
100	PI2 BPSK	135	0		19.68		21.0	0.0
100	PI2 BPSK	135	69		20.14		21.0	0.0
100	PI2 BPSK	135	138		20.07		21.0	0.0
100	PI2 BPSK	270	0		20.24			
100	QPSK	1	1		19.22			
100	QPSK	1	137		20.41		21.0	0.0
100	QPSK	1	271		20.04			
100	QPSK	135	0		19.77		21.0	0.0
100	QPSK	135	69		20.16		21.0	0.0
100	QPSK	135	138		20.17		21.0	0.0
100	QPSK	270	0		20.20			
100	16QAM	1	1		20.00		21.0	0.0
100	64QAM	1	1		18.97		21.0	0.0
100	256QAM	1	1		18.34		19.5	1.5
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3485	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	20.13	20.16	20.11	21.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	20.22	20.09	20.08	21.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3484.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	20.17	20.19	20.05	21.0	0.0
Channel				632000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3470	3503.01	3505.02	(dBm)	(dB)
60	QPSK	1	1	20.15	20.16	20.08	21.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	20.18	20.16	20.07	21.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	20.12	20.18	20.07	21.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3503.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	20.13	20.21	20.00	21.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	20.13	20.21	20.02	21.0	0.0
Channel				630300	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	20.20	20.19	20.02	21.0	0.0
Channel				630334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3458.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	20.21	20.13	20.02	21.0	0.0



n2 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1865	1880	1895			
Frequency (MHz)				376000	376000	376000			
30	Pl/2 BPSK	1	1	22.01	22.12	22.22			
30	Pl/2 BPSK	1	80	21.89	21.93	21.82	23.0	0.0	
30	Pl/2 BPSK	1	158	21.78	21.91	21.78			
30	Pl/2 BPSK	80	0	21.49	21.59	21.56	22.5	0.5	
30	Pl/2 BPSK	80	40	22.07	22.11	21.97	23.0	0.0	
30	Pl/2 BPSK	80	80	21.48	21.57	21.47	22.5	0.5	
30	Pl/2 BPSK	160	0	21.47	21.62	21.49	22.0	0.0	
30	QPSK	1	1	22.11	22.17	22.13			
30	QPSK	1	80	21.83	21.87	21.91	23.0	0.0	
30	QPSK	1	158	21.81	21.88	21.84			
30	QPSK	80	0	21.17	21.27	21.23	22.0	1.0	
30	QPSK	80	40	22.06	22.14	22.11	23.0	0.0	
30	QPSK	80	80	21.15	21.23	21.19	22.0	1.0	
30	QPSK	160	0	21.15	21.26	21.24	22.0	1.0	
30	16QAM	1	1	20.72	20.77	20.65	22.0	1.0	
30	64QAM	1	1	19.15	19.29	19.19	20.5	2.5	
30	256QAM	1	1	17.80	17.87	17.72	18.5	4.5	
Channel				372550	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	21.87	22.07	21.96	23.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	21.88	21.95	21.98	23.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	21.99	22.07	22.02	23.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.07	22.30	22.06	23.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.06	22.03	22.03	23.0	0.0	

n5 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					836.5				
Frequency (MHz)					167300				
25	Pl/2 BPSK	1	1	22.24					
25	Pl/2 BPSK	1	67	22.57			24.0	0.0	
25	Pl/2 BPSK	1	131	22.51					
25	Pl/2 BPSK	64	0	22.29			23.5	0.5	
25	Pl/2 BPSK	64	35	22.26			24.0	0.0	
25	Pl/2 BPSK	64	69	22.24			23.5	0.5	
25	Pl/2 BPSK	128	0	22.32			23.0	0.0	
25	QPSK	1	1	22.50					
25	QPSK	1	67	22.64			24.0	0.0	
25	QPSK	1	131	22.53					
25	QPSK	64	0	21.78			23.0	1.0	
25	QPSK	64	35	22.82			24.0	0.0	
25	QPSK	64	69	21.73			23.0	1.0	
25	QPSK	128	0	21.76			23.0	1.0	
25	16QAM	1	1	21.28			23.0	1.0	
25	64QAM	1	1	19.95			21.5	2.5	
25	256QAM	1	1	18.92			19.5	4.5	
Channel				168900	167300	167900	Tune-up limit (dBm)	MPR	
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	22.74	22.78	22.68	0.0	0.0	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.75	22.78	22.65	24.0	0.0	
Channel				168600	167300	168600	Tune-up limit (dBm)	MPR	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.69	22.83	22.66	24.0	0.0	
Channel				168500	167300	168500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.78	22.80	22.66	24.0	0.0	

n12 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				706.5	707.5	708.5			
Frequency (MHz)				141300	141500	141700			
15	Pl/2 BPSK	1	1	22.83	22.92	22.86			
15	Pl/2 BPSK	1	40	22.78	22.86	22.75	24.0	0.0	
15	Pl/2 BPSK	1	77	22.76	22.80	22.68			
15	Pl/2 BPSK	36	0	22.82	22.88	22.58	23.5	0.5	
15	Pl/2 BPSK	36	22	22.78	22.89	22.77	24.0	0.0	
15	Pl/2 BPSK	36	43	22.47	22.82	22.55	23.5	0.5	
15	Pl/2 BPSK	75	0	22.60	22.66	22.58			
15	QPSK	1	1	22.90	22.97	22.86			
15	QPSK	1	40	22.87	22.94	22.80	24.0	0.0	
15	QPSK	1	77	22.73	22.84	22.71			
15	QPSK	36	0	22.15	22.19	22.12	23.0	1.0	
15	QPSK	36	22	22.83	22.92	22.87	24.0	0.0	
15	QPSK	36	43	22.10	22.14	22.00	23.0	1.0	
15	QPSK	75	0	22.10	22.16	22.14	23.0	1.0	
15	16QAM	1	1	21.72	21.82	21.76	23.0	1.0	
15	64QAM	1	1	20.20	20.31	20.20	21.5	2.5	
15	256QAM	1	1	18.78	18.93	18.80	19.5	4.5	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.78	22.93	22.80	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.80	22.88	22.75	24.0	0.0	



n14 Ant4									
BW (MHz)	Modulation	RB 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	PI2 BPSK	1	1	22.50	793				
10	PI2 BPSK	1	1	22.50	793		24.0	0.0	
10	PI2 BPSK	1	26	22.51					
10	PI2 BPSK	1	50	22.48					
10	PI2 BPSK	25	0	22.11			23.5	0.5	
10	PI2 BPSK	25	14	22.32			24.0	0.0	
10	PI2 BPSK	25	27	21.99			23.5	0.5	
10	PI2 BPSK	50	0	22.08					
10	QPSK	1	1	22.61			24.0	0.0	
10	QPSK	1	26	22.54					
10	QPSK	1	50	22.50					
10	QPSK	25	0	21.68			23.0	1.0	
10	QPSK	25	14	22.57			24.0	0.0	
10	QPSK	25	27	21.61			23.0	1.0	
10	QPSK	50	0	21.68			23.0	1.0	
10	16QAM	1	1	21.44			23.0	1.0	
10	64QAM	1	1	19.87			21.5	2.5	
10	256QAM	1	1	18.45			19.5	4.5	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.50	793	795.5	24.0	0.0	

n25 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	21.30	1823.7	1825.3			
45	PI2 BPSK	1	61	21.98	22.01	21.94	23.0	0.0	
45	PI2 BPSK	1	121	21.24	21.35	21.24			
45	PI2 BPSK	121	0	21.25	21.31	21.20	22.5	0.5	
45	PI2 BPSK	121	61	21.94	21.98	21.91	23.0	0.0	
45	PI2 BPSK	121	121	21.26	21.36	21.24			
45	PI2 BPSK	242	0	21.39	21.43	21.40	22.5	0.5	
45	QPSK	1	1	21.27	21.41	21.31			
45	QPSK	1	61	21.99	22.03	21.92	23.0	0.0	
45	QPSK	1	121	21.31	21.38	21.25			
45	QPSK	121	0	20.94	21.02	20.94	22.0	1.0	
45	QPSK	121	61	21.95	22.00	21.92	23.0	0.0	
45	QPSK	121	121	20.89	20.98	20.83	22.0	1.0	
45	QPSK	242	0	21.01	21.04	20.97	22.0	1.0	
45	16QAM	1	1	20.23	20.27	20.16	22.0	1.0	
45	64QAM	1	1	18.73	18.84	18.69	20.5	2.5	
45	256QAM	1	1	17.23	17.44	17.22	18.5	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.55	22.01	22.01	0.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	21.90	21.92	21.88	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.90	21.97	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.84	22.03	21.88	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.90	21.98	21.87	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.86	22.01	21.89	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.86	21.94	21.85	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.84	22.00	21.86	23.0	0.0	

n26 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.78	834	831.5	22.11		
20	PI2 BPSK	1	53	22.63	831.5	829	22.63	24.0	0.0
20	PI2 BPSK	1	104	22.58	828.5	826	22.58		
20	PI2 BPSK	50	0	22.35	823.9	822.8	23.5	0.5	
20	PI2 BPSK	50	25	22.69	828.0	827.1	24.0	0.0	
20	PI2 BPSK	50	56	22.23	823.3	822.9	23.5	0.5	
20	PI2 BPSK	100	0	22.28	823.8	823.4			
20	QPSK	1	1	22.85	828.8	827.9			
20	QPSK	1	53	22.73	826.1	825.0	24.0	0.0	
20	QPSK	1	104	22.60	823.2	822.1			
20	QPSK	50	0	21.84	818.7	817.7	23.0	1.0	
20	QPSK	50	25	22.80	828.4	827.7	24.0	0.0	
20	QPSK	50	56	21.75	818.2	817.9	23.0	1.0	
20	QPSK	100	0	21.77	818.8	818.1			
20	16QAM	1	1	21.29	814.2	813.2	23.0	1.0	
20	64QAM	1	1	19.97	804.4	804.4	21.5	2.5	
20	256QAM	1	1	18.51	794.2	794.2	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.73	831.5	831.5	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.75	827.7	826.8	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.80	828.3	827.5	24.0	0.0	



n66 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	349000	351500			
Frequency (MHz)				1722.5	1745	1767.5			
45	PI2 BPSK	1	1	21.16	21.18	21.11			
45	PI2 BPSK	1	61	21.71	21.77	21.64	23.0	0.0	
45	PI2 BPSK	1	121	21.03	21.08	21.01			
45	PI2 BPSK	121	0	21.44	21.58	21.45	22.5	0.5	
45	PI2 BPSK	121	61	21.63	21.71	21.66	23.0	0.0	
45	PI2 BPSK	121	121	21.31	21.42	21.35			
45	PI2 BPSK	242	0	21.34	21.45	21.41	22.5	0.5	
45	QPSK	1	1	21.17	21.23	21.12			
45	QPSK	1	61	21.76	21.82	21.72	23.0	0.0	
45	QPSK	1	121	21.02	21.10	21.03			
45	QPSK	121	0	20.92	21.01	20.96	22.0	1.0	
45	QPSK	121	61	21.68	21.75	21.70	23.0	0.0	
45	QPSK	121	121	20.86	20.91	20.86	22.0	1.0	
45	QPSK	242	0	20.93	20.99	20.95	22.0	1.0	
45	16QAM	1	1	20.07	20.11	20.02	22.0	1.0	
45	64QAM	1	1	18.57	18.68	18.56	20.5	2.5	
45	256QAM	1	1	17.26	17.33	17.20	18.5	4.5	
Channel				345500	349000	352500			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	21.73	21.72	21.60	23.0	0.0	
Channel				345500	349000	352500			
Frequency (MHz)				1722.5	1745	1767.5			
35	QPSK	1	1	21.73	21.72	21.60	21.5	1.0	
Channel				345000	349000	353000			
Frequency (MHz)				1722.5	1745	1767.5			
30	QPSK	1	1	21.69	21.74	21.57	23.0	0.0	
Channel				345000	349000	353000			
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	21.72	21.77	21.59	23.0	0.0	
Channel				345000	349000	353000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	21.70	21.68	21.67	23.0	0.0	
Channel				343000	349000	354000			
Frequency (MHz)				1712.5	1745	1775			
15	QPSK	1	1	21.67	21.73	21.65	23.0	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1712.5	1745	1775			
10	QPSK	1	1	21.63	21.69	21.67	23.0	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.63	21.76	21.67	23.0	0.0	

n70 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340000	345000	341000			
Frequency (MHz)				1700	1702.5	1705			
15	PI2 BPSK	1	1	21.84					
15	PI2 BPSK	1	40	21.71			23.0	0.0	
15	PI2 BPSK	1	77	21.68					
15	PI2 BPSK	36	0	21.44	21.34	21.45	22.5	0.5	
15	PI2 BPSK	36	22	21.70			23.0	0.0	
15	PI2 BPSK	36	43	21.36			22.5	0.5	
15	PI2 BPSK	75	0	21.44					
15	QPSK	1	1	21.87					
15	QPSK	1	40	21.79			23.0	0.0	
15	QPSK	1	77	21.73					
15	QPSK	36	0	21.03			22.0	1.0	
15	QPSK	36	22	21.81			23.0	0.0	
15	QPSK	36	43	21.08			22.0	1.0	
15	QPSK	75	0	21.13			22.0	1.0	
15	16QAM	1	1	20.57			22.0	1.0	
15	64QAM	1	1	19.08			20.5	2.5	
15	256QAM	1	1	17.62			18.5	4.5	
Channel				340000	345000	341000			
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	21.69	21.79	21.64	23.0	0.0	
Channel				339500	340500	341500			
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	21.70	21.82	21.72	23.0	0.0	

n71 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				136500	136100	137000			
Frequency (MHz)				675	680.5	685			
20	PI2 BPSK	1	1	23.10	23.19	23.07			
20	PI2 BPSK	1	53	22.92	23.01	22.98	24.0	0.0	
20	PI2 BPSK	1	104	22.74	22.87	22.78			
20	PI2 BPSK	50	0	22.54	22.68	22.60	23.5	0.5	
20	PI2 BPSK	50	25	23.12	23.16	23.13	24.0	0.0	
20	PI2 BPSK	50	56	22.59	22.62	22.58			
20	PI2 BPSK	100	0	22.55	22.66	22.61	23.5	0.5	
20	QPSK	1	1	23.23	23.26	23.18			
20	QPSK	1	53	23.06	23.08	23.03	24.0	0.0	
20	QPSK	1	104	22.79	22.93	22.84			
20	QPSK	50	0	22.03	22.15	22.05	23.0	1.0	
20	QPSK	50	25	23.19	23.22	23.15	24.0	0.0	
20	QPSK	50	56	21.91	22.05	22.01	23.0	1.0	
20	QPSK	100	0	22.06	22.11	22.02			
20	16QAM	1	1	21.70	21.77	21.67	23.0	1.0	
20	64QAM	1	1	20.18	20.23	20.11	21.5	2.5	
20	256QAM	1	1	18.75	18.82	18.70	19.5	4.5	
Channel				135100	136100	137100			
Frequency (MHz)				675	680.5	685			
15	QPSK	1	1	23.09	23.13	23.11	24.0	0.0	
Channel				133900	136100	138900			
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	23.08	23.21	23.06	24.0	0.0	
Channel				133100	136100	139100			
Frequency (MHz)				663	680.5	695.5			
5	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	



n41 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.25	19.38	19.26			
100	PI/2 BPSK	1	137	20.68	20.72	20.57	21.0	0.0	
100	PI/2 BPSK	1	271	19.81	19.89	19.82			
100	PI/2 BPSK	135	0	20.38	20.51	20.41	21.0	0.0	
100	PI/2 BPSK	135	69	20.66	20.77	20.73	21.0	0.0	
100	PI/2 BPSK	135	138	20.56	20.66	20.59	21.0	0.0	
100	PI/2 BPSK	270	0	20.68	20.73	20.58			
100	QPSK	1	1	19.12	19.43	20.02			
100	QPSK	1	137	20.32	20.83	20.54	21.0	0.0	
100	QPSK	1	271	19.79	19.93	19.81			
100	QPSK	135	0	20.52	20.59	20.54	21.0	0.0	
100	QPSK	135	69	20.26	20.78	20.49	21.0	0.0	
100	QPSK	135	138	20.60	20.65	20.52	21.0	0.0	
100	QPSK	270	0	19.99	20.71	20.45			
100	16QAM	1	1	19.17	19.23	19.20	21.0	0.0	
100	64QAM	1	1	19.11	19.17	19.13	21.0	0.0	
100	256QAM	1	1	18.28	18.32	18.21	19.5	1.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.22	20.70	20.43	21.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.24	20.75	20.44	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.20	20.73	20.46	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	20.29	20.74	20.49	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.27	20.70	20.50	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.24	20.73	20.48	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.18	20.78	20.46	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.21	20.71	20.51	21.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	20.23	20.70	20.49	21.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	20.27	20.79	20.42	21.0	0.0	

n41 Ant4 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.74	21.82	21.69			
100	PI/2 BPSK	1	137	23.18	23.21	23.10	24.0	0.0	
100	PI/2 BPSK	1	271	22.28	22.41	22.32			
100	PI/2 BPSK	135	0	22.20	22.27	22.16	23.5	0.5	
100	PI/2 BPSK	135	69	22.98	23.04	22.97	24.0	0.0	
100	PI/2 BPSK	135	138	22.34	22.43	22.32	23.5	0.5	
100	PI/2 BPSK	270	0	22.54	22.67	22.59			
100	QPSK	1	1	21.54	21.90	21.88			
100	QPSK	1	137	22.77	23.29	23.11	24.0	0.0	
100	QPSK	1	271	22.37	22.50	22.45			
100	QPSK	135	0	21.81	21.85	21.78	23.0	1.0	
100	QPSK	135	69	22.72	23.23	23.07	24.0	0.0	
100	QPSK	135	138	21.92	22.06	22.03	23.0	1.0	
100	QPSK	270	0	21.69	22.28	22.23			
100	16QAM	1	1	20.91	20.98	20.88	23.0	1.0	
100	64QAM	1	1	19.47	19.52	19.45	21.5	2.5	
100	256QAM	1	1	17.58	17.66	17.55	19.5	4.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.68	23.14	23.03	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.72	23.20	23.05	24.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.84	23.17	23.08	24.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	22.70	23.25	23.05	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.64	23.18	22.99	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.65	23.23	23.07	24.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.69	23.14	23.03	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.74	23.26	22.96	24.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.63	23.18	23.06	24.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.62	23.24	23.00	24.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	21.41	21.54	21.43			
40	PI2 BPSK	1	53	21.40	21.47	21.45	23.0	0.0	
40	PI2 BPSK	1	104	21.42	21.52	21.39			
40	PI2 BPSK	50	0	20.58	20.66	20.61	22.5	0.5	
40	PI2 BPSK	50	20	21.41	22.01	21.45	23.0	0.0	
40	PI2 BPSK	50	50	21.31	21.67	21.47	22.5	0.5	
40	PI2 BPSK	100	0	20.70	20.85	20.59			
40	QPSK	1	1	21.46	21.53	21.41			
40	QPSK	1	53	21.37	21.58	21.38	23.0	0.0	
40	QPSK	1	104	21.36	21.49	21.32			
40	QPSK	50	0	20.50	20.63	20.43	22.0	1.0	
40	QPSK	50	20	21.45	22.03	21.46	23.0	0.0	
40	QPSK	50	50	21.33	21.67	21.45	22.0	1.0	
40	QPSK	100	0	20.58	20.90	20.58			
40	16QAM	1	1	20.50	20.57	20.55	22.0	1.0	
40	16QAM	1	1	19.31	19.49	19.33	20.5	2.5	
40	256QAM	1	1	18.46	18.49	18.47	18.5	4.5	
Channel									
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	21.46	21.44	21.40	23.0	0.0	
Channel									
Frequency (MHz)				637.98	64166	645180			
15	QPSK	1	1	21.41	21.50	21.35	23.0	0.0	
Channel									
Frequency (MHz)				637000	641666	646332			
10	QPSK	1	1	21.37	21.39	21.38	23.0	0.0	

15.08

Part270 n77 Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	22.04	22.07	21.92			
100	PI2 BPSK	1	137	23.00	23.08	22.96	24.0	0.0	
100	PI2 BPSK	1	271	21.86	22.01	21.95			
100	PI2 BPSK	135	0	22.78	22.88	22.81	24.0	0.0	
100	PI2 BPSK	135	69	23.00	23.04	22.96	24.0	0.0	
100	PI2 BPSK	135	138	22.71	22.82	22.77	24.0	0.0	
100	PI2 BPSK	270	0	22.83	22.90	22.78			
100	QPSK	1	1	22.19	22.12	22.04			
100	QPSK	1	137	23.10	23.15	23.06	24.0	0.0	
100	QPSK	1	271	22.00	22.06	21.92			
100	QPSK	135	0	22.83	22.93	22.88	24.0	0.0	
100	QPSK	135	69	23.05	23.08	23.01	24.0	0.0	
100	QPSK	135	138	22.80	22.89	22.77	24.0	0.0	
100	QPSK	270	0	22.88	22.97	22.92			
100	16QAM	1	1	21.84	22.09	22.05	24.0	0.0	
100	16QAM	1	1	21.91	22.05	21.93	24.0	0.0	
100	256QAM	1	1	20.02	20.06	20.86	22.5	1.5	
Channel									
Frequency (MHz)				3745.02	3840	3935.01			
80	QPSK	1	1	22.99	23.05	23.00	24.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650666			
80	QPSK	1	1	23.05	23.10	22.91	24.0	0.0	
Channel									
Frequency (MHz)				649000	650000	650000			
70	QPSK	1	1	22.97	23.01	23.53	24.0	0.0	
Channel									
Frequency (MHz)				648968	650000	650334			
60	QPSK	1	1	23.05	23.07	22.95	24.0	0.0	
Channel									
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.07	23.02	22.95	24.0	0.0	
Channel									
Frequency (MHz)				648000	650000	650000			
40	QPSK	1	1	23.08	23.11	22.91	24.0	0.0	
Channel									
Frequency (MHz)				647868	650000	650334			
30	QPSK	1	1	22.97	23.04	22.91	24.0	0.0	
Channel									
Frequency (MHz)				647334	650000	650666			
20	QPSK	1	1	23.06	23.09	22.94	24.0	0.0	
Channel									
Frequency (MHz)				647168	650000	650334			
15	QPSK	1	1	23.00	23.05	23.01	24.0	0.0	
Channel									
Frequency (MHz)				647000	650000	650000			
10	QPSK	1	1	23.06	23.08	22.97	24.0	0.0	

Part270 n77 Ant5 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	24.59	25.09	25.53			
100	PI2 BPSK	1	137	25.96	26.01	25.97	27.0	0.0	
100	PI2 BPSK	1	271	24.93	25.02	24.88			
100	PI2 BPSK	135	0	25.32	25.42	25.29	26.5	0.5	
100	PI2 BPSK	135	69	25.88	25.98	25.91	27.0	0.0	
100	PI2 BPSK	135	138	25.29	25.34	25.20	26.5	0.5	
100	PI2 BPSK	270	0	25.37	25.42	25.28			
100	QPSK	1	1	25.10	25.14	25.04			
100	QPSK	1	137	26.01	26.07	25.96	27.0	0.0	
100	QPSK	1	271	24.98	25.06	25.03			
100	QPSK	135	0	24.76	24.85	24.75	26.0	1.0	
100	QPSK	135	69	25.98	26.02	25.90	27.0	0.0	
100	QPSK	135	138	24.73	24.81	24.76	26.0	1.0	
100	QPSK	270	0	24.91	25.05	24.89			
100	16QAM	1	1	24.31	24.42	24.38	26.0	1.0	
100	16QAM	1	1	22.67	22.76	22.65	24.5	2.5	
100	256QAM	1	1	18.01	18.72	18.98	22.5	4.5	
Channel									
Frequency (MHz)				649334	650000	650666			
80	QPSK	1	1	25.93	26.02	25.87	27.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650666			
80	QPSK	1	1	25.94	25.98	25.86	27.0	0.0	
Channel									
Frequency (MHz)				649000	650000	650000			
70	QPSK	1	1	25.90	25.97	25.93	27.0	0.0	
Channel									
Frequency (MHz)				648968	650000	650334			
60	QPSK	1	1	25.87	26.00	25.88	27.0	0.0	
Channel									
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	25.87	26.03	25.84	27.0	0.0	
Channel									
Frequency (MHz)				648000	650000	650000			
40	QPSK	1	1	25.89	25.92	25.88	27.0	0.0	
Channel									
Frequency (MHz)				647868	650000	650334			
30	QPSK	1	1	25.92	25.95	25.88	27.0	0.0	
Channel									
Frequency (MHz)				647334	650000	650666			
20	QPSK	1	1	25.88	26.01	25.90	27.0	0.0	
Channel									
Frequency (MHz)				647168	650000	650334			
15	QPSK	1	1	25.94	25.95	25.89	27.0	0.0	
Channel									
Frequency (MHz)				647000	650000	650000			
10	QPSK	1	1	25.87	25.94	25.93	27.0	0.0	



Part27Q n77 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.24	3500.01			
100	PI2 BPSK	1	137	23.16			24.0	0.0
100	PI2 BPSK	1	271	22.18				
100	PI2 BPSK	135	0	23.05			24.0	0.0
100	PI2 BPSK	135	69	23.11			24.0	0.0
100	PI2 BPSK	135	138	22.97			24.0	0.0
100	PI2 BPSK	270	0	23.00				
100	QPSK	1	1	22.29				
100	QPSK	1	137	23.21			24.0	0.0
100	QPSK	1	271	22.50				
100	QPSK	135	0	23.13			24.0	0.0
100	QPSK	135	69	23.15			24.0	0.0
100	QPSK	135	138	22.97			24.0	0.0
100	QPSK	270	0	23.02				
100	16QAM	1	1	22.08			24.0	0.0
100	64QAM	1	1	22.02			24.0	0.0
100	256QAM	1	1	21.13			22.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.03	6333.34	6336.68	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.04	23.10	23.08	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.07	23.09	23.07	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.01	23.16	23.09	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.01	23.09	23.08	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.05	23.07	23.00	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.06	23.06	23.00	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.07	23.13	23.03	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.07	23.08	22.98	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.05	23.12	23.00	24.0	0.0

Part27Q n77 Ant5 PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.18	3500.01			
100	PI2 BPSK	1	137	26.06			27.0	0.0
100	PI2 BPSK	1	271	25.14				
100	PI2 BPSK	135	0	25.53			26.5	0.5
100	PI2 BPSK	135	69	26.02			27.0	0.0
100	PI2 BPSK	135	138	25.49			26.5	0.5
100	PI2 BPSK	270	0	25.55				
100	QPSK	1	1	25.25				
100	QPSK	1	137	26.15			27.0	0.0
100	QPSK	1	271	25.19				
100	QPSK	135	0	24.97			26.0	1.0
100	QPSK	135	69	26.09			27.0	0.0
100	QPSK	135	138	24.84			26.0	1.0
100	QPSK	270	0	25.01				
100	16QAM	1	1	24.42			26.0	1.0
100	64QAM	1	1	22.84			24.5	2.5
100	256QAM	1	1	18.84			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.97	6333.34	6336.68	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	26.06	26.10	25.96	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	26.04	26.05	25.95	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.97	26.03	26.02	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.02	26.07	25.95	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.05	26.05	25.97	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.99	26.03	25.96	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.96	26.10	25.98	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.03	26.09	25.98	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.02	26.11	25.95	27.0	0.0

Part27O n78 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.18	3750	3750		
100	PI2 BPSK	1	137	23.09			24.0	0.0
100	PI2 BPSK	1	271	22.12				
100	PI2 BPSK	135	0	22.98			24.0	0.0
100	PI2 BPSK	135	69	23.05			24.0	0.0
100	PI2 BPSK	135	138	22.91			24.0	0.0
100	PI2 BPSK	270	0	22.98				
100	QPSK	1	1	22.21				
100	QPSK	1	137	23.15			24.0	0.0
100	QPSK	1	271	22.16				
100	QPSK	135	0	23.03			24.0	0.0
100	QPSK	135	69	23.10			24.0	0.0
100	QPSK	135	138	22.84			24.0	0.0
100	QPSK	270	0	22.98				
100	16QAM	1	1	22.17			24.0	0.0
100	64QAM	1	1	22.12			24.0	0.0
100	256QAM	1	1	21.07			22.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.01	6496.68	6500.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.95	23.04	22.99	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.01	23.09	22.99	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.96	23.08	23.03	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.99	23.01	23.04	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.05	23.06	22.97	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.01	23.01	22.99	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.01	23.04	23.00	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.98	23.02	23.04	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.94	23.11	23.00	24.0	0.0



Part270 n78 Ant5 PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	25.18			27.0	0.0
100	PI2 BPSK	1	137	25.13				
100	PI2 BPSK	1	271	25.14				
100	PI2 BPSK	135	0	25.48			26.5	0.5
100	PI2 BPSK	135	69	26.10			27.0	0.0
100	PI2 BPSK	135	138	25.42			26.5	0.5
100	PI2 BPSK	270	0	25.51				
100	QPSK	1	1	25.25			27.0	0.0
100	QPSK	1	137	25.19				
100	QPSK	1	271	25.12				
100	QPSK	135	0	24.98			26.0	1.0
100	QPSK	135	69	26.14			27.0	0.0
100	QPSK	135	138	24.96			26.0	1.0
100	QPSK	270	0	25.02				
100	16QAM	1	1	24.42			24.5	1.0
100	64QAM	1	1	22.84			24.5	2.5
100	256QAM	1	1	18.79			22.5	4.5
Channel								
Frequency (MHz)				64898	65000	65334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	26.01	26.08	26.00	27.0	0.0
Channel								
Frequency (MHz)				64934	65000	65088	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	26.04	26.11	26.03	27.0	0.0
Channel								
Frequency (MHz)				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	26.00	26.13	26.01	27.0	0.0
Channel								
Frequency (MHz)				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.98	26.05	25.97	27.0	0.0
Channel								
Frequency (MHz)				3750.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	26.01	26.07	25.96	27.0	0.0
Channel								
Frequency (MHz)				64700	65000	65000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.97	26.16	25.92	27.0	0.0
Channel								
Frequency (MHz)				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	26.02	26.15	25.92	27.0	0.0
Channel								
Frequency (MHz)				64734	65000	65068	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	26.05	26.05	25.94	27.0	0.0
Channel								
Frequency (MHz)				64700	65000	65000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.98	26.09	25.92	27.0	0.0
Channel								
Frequency (MHz)				64700	65000	65000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	26.00	26.11	25.95	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)						3500.01		
100	PI2 BPSK	1	1	22.29			24.0	0.0
100	PI2 BPSK	1	137	23.20				
100	PI2 BPSK	1	271	22.25				
100	PI2 BPSK	135	0	23.11			24.0	0.0
100	PI2 BPSK	135	69	23.19			24.0	0.0
100	PI2 BPSK	135	138	22.96			24.0	0.0
100	PI2 BPSK	270	0	23.02				
100	QPSK	1	1	22.34			24.0	0.0
100	QPSK	1	137	23.26				
100	QPSK	1	271	22.27				
100	QPSK	135	0	23.14			24.0	0.0
100	QPSK	135	69	23.22			24.0	0.0
100	QPSK	135	138	22.86			24.0	0.0
100	QPSK	270	0	23.07				
100	16QAM	1	1	22.17			24.0	0.0
100	64QAM	1	1	21.12			24.0	0.0
100	256QAM	1	1	18.24			22.5	1.5
Channel								
Frequency (MHz)				63300	63334	63668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.17	23.19	23.20	24.0	0.0
Channel								
Frequency (MHz)				63268	63334	63300	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.08	23.22	23.16	24.0	0.0
Channel								
Frequency (MHz)				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.08	23.12	23.15	24.0	0.0
Channel								
Frequency (MHz)				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.18	23.22	23.13	24.0	0.0
Channel								
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.13	23.23	23.18	24.0	0.0
Channel								
Frequency (MHz)				63100	63334	63668	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.06	23.14	23.18	24.0	0.0
Channel								
Frequency (MHz)				3465	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.15	23.22	23.11	24.0	0.0
Channel								
Frequency (MHz)				63068	63334	63300	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.13	23.17	23.12	24.0	0.0
Channel								
Frequency (MHz)				63034	63334	63368	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.13	23.15	23.15	24.0	0.0
Channel								
Frequency (MHz)				63034	63334	63334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.11	23.12	23.15	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)						3500.01		
100	PI2 BPSK	1	1	23.22			27.0	0.0
100	PI2 BPSK	1	137	23.09				
100	PI2 BPSK	1	271	23.23				
100	PI2 BPSK	135	0	23.54			26.5	0.5
100	PI2 BPSK	135	69	26.08			27.0	0.0
100	PI2 BPSK	135	138	23.42			26.5	0.5
100	PI2 BPSK	270	0	23.46				
100	QPSK	1	1	23.28			27.0	0.0
100	QPSK	1	137	23.15				
100	QPSK	1	271	23.26				
100	QPSK	135	0	23.08			26.0	1.0
100	QPSK	135	69	26.10			27.0	0.0
100	QPSK	135	138	24.97			26.0	1.0
100	QPSK	270	0	23.03				
100	16QAM	1	1	24.48			24.5	1.0
100	64QAM	1	1	22.83			24.5	2.5
100	256QAM	1	1	18.91			22.5	4.5
Channel								
Frequency (MHz)				63300	63334	63668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	26.04	26.07	25.96	27.0	0.0
Channel								
Frequency (MHz)				63268	63334	63300	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	26.01	26.01	26.01	27.0	0.0
Channel								
Frequency (MHz)				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	26.02	26.06	25.98	27.0	0.0
Channel								
Frequency (MHz)				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	26.06	26.03	26.02	27.0	0.0
Channel								
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.97	26.00	25.99	27.0	0.0
Channel								
Frequency (MHz)				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	26.00	26.02	25.98	27.0	0.0
Channel								
Frequency (MHz)				63100	63334	63668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	26.03	26.09	25.94	27.0	0.0
Channel								
Frequency (MHz)				63068	63334	63300	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	26.07	26.08	25.97	27.0	0.0
Channel								
Frequency (MHz)				63034	63334	63334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	26.08	26.01	25.98	27.0	0.0
Channel								
Frequency (MHz)				63034	63334	63334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	26.01	26.12	26.01	27.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	20.64	20.71	20.57			
100	PI/2 BPSK	1	137	21.79	21.87	21.77	23.0	0.0	
100	PI/2 BPSK	1	271	20.81	20.85	20.78			
100	PI/2 BPSK	135	0	21.69	21.73	21.63	23.0	0.0	
100	PI/2 BPSK	135	69	21.68	21.80	21.73	23.0	0.0	
100	PI/2 BPSK	135	138	21.62	21.68	21.55	23.0	0.0	
100	PI/2 BPSK	270	0	21.66	21.74	21.62			
100	QPSK	1	1	20.11	20.75	20.67			
100	QPSK	1	137	21.64	21.93	21.77	23.0	0.0	
100	QPSK	1	271	20.83	20.92	20.85			
100	QPSK	135	0	21.74	21.80	21.73	23.0	0.0	
100	QPSK	135	69	21.56	21.85	21.73	23.0	0.0	
100	QPSK	135	138	21.66	21.71	21.56	23.0	0.0	
100	QPSK	270	0	21.51	21.78	21.64			
100	16QAM	1	1	20.57	20.64	20.52	23.0	0.0	
100	64QAM	1	1	20.52	20.57	20.48	23.0	0.0	
100	256QAM	1	1	19.69	19.73	19.70	21.5	1.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.54	21.80	21.62	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	21.50	21.81	21.63	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.51	21.88	21.68	23.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.54	21.83	21.70	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.60	21.79	21.62	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.59	21.89	21.72	23.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.50	21.78	21.68	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.57	21.87	21.66	23.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	21.53	21.89	21.68	23.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	21.54	21.85	21.66	23.0	0.0	

19.94
21.17

n41 Ant7 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.06	23.17	23.10			
100	PI/2 BPSK	1	137	24.16	24.27	24.22	26.0	0.0	
100	PI/2 BPSK	1	271	23.03	23.14	23.07			
100	PI/2 BPSK	135	0	23.58	23.71	23.62	25.5	0.5	
100	PI/2 BPSK	135	69	24.11	24.25	24.13	26.0	0.0	
100	PI/2 BPSK	135	138	23.46	23.57	23.51	25.5	0.5	
100	PI/2 BPSK	270	0	23.56	23.66	23.54			
100	QPSK	1	1	23.08	23.24	23.18			
100	QPSK	1	137	24.22	24.35	24.16	26.0	0.0	
100	QPSK	1	271	23.13	23.22	23.10			
100	QPSK	135	0	23.15	23.24	23.17	25.0	1.0	
100	QPSK	135	69	24.17	24.28	24.22	26.0	0.0	
100	QPSK	135	138	22.93	23.06	23.00	25.0	1.0	
100	QPSK	270	0	23.02	23.15	23.10			
100	16QAM	1	1	22.36	22.48	22.43	25.0	1.0	
100	64QAM	1	1	20.65	20.76	20.69	23.5	2.5	
100	256QAM	1	1	17.44	17.54	17.41	21.5	4.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	24.18	24.24	24.07	26.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	24.09	24.30	24.05	26.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	24.13	24.25	24.05	26.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	24.09	24.20	24.10	26.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	24.19	24.29	24.08	26.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.12	24.32	24.02	26.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.13	24.21	24.11	26.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	24.13	24.27	24.13	26.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	24.11	24.23	24.05	26.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	24.07	24.29	24.03	26.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	20.68	20.77	20.73		
100	PI2 BPSK	1	137	21.84	21.87	21.77	23.0	0.0
100	PI2 BPSK	1	271	20.77	20.83	20.76		
100	PI2 BPSK	135	0	21.46	21.56	21.46	23.0	0.0
100	PI2 BPSK	135	69	21.59	21.70	21.66	23.0	0.0
100	PI2 BPSK	135	138	21.43	21.58	21.47	23.0	0.0
100	PI2 BPSK	270	0	21.60	21.63	21.52	23.0	0.0
100	QPSK	1	1	20.92	20.83	20.76		
100	QPSK	1	137	21.83	21.81	21.80	23.0	0.0
100	QPSK	1	271	20.93	20.90	20.87		
100	QPSK	135	0	21.50	21.63	21.57	22.0	1.0
100	QPSK	135	69	21.79	21.88	21.74	23.0	0.0
100	QPSK	135	138	21.57	21.62	21.50	22.0	1.0
100	QPSK	270	0	21.71	21.77	21.65	23.0	0.0
100	16QAM	1	1	20.99	20.63	20.56	23.0	0.0
100	64QAM	1	1	20.52	20.56	20.49	23.0	0.0
100	256QAM	1	1	19.58	19.08	18.57	21.5	1.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.77	21.76	21.67	23.0	0.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
80	QPSK	1	1	21.77	21.87	21.67	23.0	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit	MPR
70	QPSK	1	1	21.80	21.80	21.85	23.0	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit	MPR
60	QPSK	1	1	21.80	21.85	21.67	23.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.79	21.78	21.76	23.0	0.0
Channel								
Frequency (MHz)				648000	650000	650000	Tune-up limit	MPR
40	QPSK	1	1	21.73	21.76	21.68	23.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit	MPR
30	QPSK	1	1	3715.02	3840	3955.01		
Channel								
Frequency (MHz)				647114	650000	656668	Tune-up limit	MPR
20	QPSK	1	1	21.79	21.81	21.66	23.0	0.0
Channel								
Frequency (MHz)				647168	650000	654334	Tune-up limit	MPR
15	QPSK	1	1	21.78	21.86	21.66	23.0	0.0
Channel								
Frequency (MHz)				647000	650000	650000	Tune-up limit	MPR
10	QPSK	1	1	21.77	21.80	21.71	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	23.00	23.07	22.94		
100	PI2 BPSK	1	137	23.91	23.95	23.84	24.5	0.0
100	PI2 BPSK	1	271	22.90	23.02	22.98		
100	PI2 BPSK	135	0	23.19	23.27	23.20	24.0	0.5
100	PI2 BPSK	135	69	23.80	23.92	23.79	24.5	0.0
100	PI2 BPSK	135	138	23.15	23.20	23.09	24.0	0.5
100	PI2 BPSK	270	0	23.20	23.31	23.18		
100	QPSK	1	1	23.04	23.13	23.01		
100	QPSK	1	137	24.00	24.03	23.96	24.5	0.0
100	QPSK	1	271	23.00	23.08	23.01		
100	QPSK	135	0	22.72	22.85	22.74	23.5	1.0
100	QPSK	135	69	23.91	23.97	23.84	24.5	0.0
100	QPSK	135	138	22.70	22.78	22.64	23.5	1.0
100	QPSK	270	0	22.82	22.86	22.80	24.0	0.0
100	16QAM	1	1	22.28	22.34	22.25	23.5	1.0
100	64QAM	1	1	20.88	20.91	20.82	22.0	2.5
100	256QAM	1	1	18.98	17.02	16.91	23.0	4.5
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit	MPR
90	QPSK	1	1	23.88	23.92	23.87	24.5	0.0
Channel								
Frequency (MHz)				648334	650000	652668	Tune-up limit	MPR
80	QPSK	1	1	23.88	23.96	23.82	24.5	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit	MPR
70	QPSK	1	1	23.88	23.89	23.85	24.5	0.0
Channel								
Frequency (MHz)				648968	650000	653334	Tune-up limit	MPR
60	QPSK	1	1	23.94	23.88	23.89	24.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	23.90	23.97	23.88	24.5	0.0
Channel								
Frequency (MHz)				648000	650000	650000	Tune-up limit	MPR
40	QPSK	1	1	23.96	23.98	23.87	24.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit	MPR
30	QPSK	1	1	3715.02	3840	3955.01		
Channel								
Frequency (MHz)				647114	650000	656668	Tune-up limit	MPR
20	QPSK	1	1	23.93	23.99	23.91	24.5	0.0
Channel								
Frequency (MHz)				647168	650000	654334	Tune-up limit	MPR
15	QPSK	1	1	23.86	23.90	23.82	24.5	0.0
Channel								
Frequency (MHz)				647000	650000	650000	Tune-up limit	MPR
10	QPSK	1	1	23.93	23.95	23.86	24.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)						3500.01		
100	PI2 BPSK	1	1			20.99		
100	PI2 BPSK	1	137			21.92	23.0	0.0
100	PI2 BPSK	1	271			20.87		
100	PI2 BPSK	135	0			21.85	23.0	0.0
100	PI2 BPSK	135	69			21.87	23.0	0.0
100	PI2 BPSK	135	138			21.77	23.0	0.0
100	PI2 BPSK	270	0			21.82		
100	QPSK	1	1			21.05		
100	QPSK	1	137			21.94	23.0	0.0
100	QPSK	1	271			20.94		
100	QPSK	135	0			21.88	23.0	0.0
100	QPSK	135	69			21.84	23.0	0.0
100	QPSK	135	138			21.72	23.0	0.0
100	QPSK	270	0			21.76	23.0	0.0
100	16QAM	1	1			20.93	23.0	0.0
100	64QAM	1	1			20.85	23.0	0.0
100	256QAM	1	1			19.87	21.5	1.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit	MPR
90	QPSK	1	1	21.80	21.86	21.80	23.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit	MPR
80	QPSK	1	1	21.84	21.90	21.79	23.0	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit	MPR
70	QPSK	1	1	21.83	21.93	21.80	23.0	0.0
Channel								
Frequency (MHz)				632000	633334	633668	Tune-up limit	MPR
60	QPSK	1	1	21.80	21.88	21.83	23.0	0.0
Channel								
Frequency (MHz)				631668	633334	633000	Tune-up limit	MPR
50	QPSK	1	1	21.84	21.92	21.84	23.0	0.0
Channel								
Frequency (MHz)				631334	633334	633534	Tune-up limit	MPR
40	QPSK	1	1	21.81	21.91	21.83	23.0	0.0
Channel								
Frequency (MHz)				631000	633334	633668	Tune-up limit	MPR
30	QPSK	1	1	3665	3500.01	3535.02		
Channel								
Frequency (MHz)				630668	633334	633000	Tune-up limit	MPR
20	QPSK	1	1	21.92	21.87	21.87	23.0	0.0
Channel								
Frequency (MHz)				630300	633334	633168	Tune-up limit	MPR
15	QPSK	1	1	21.81	21.94	21.76	23.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334	Tune-up limit	MPR
10	QPSK	1	1	21.85	21.84	21.79	23.0	0.0



Part27Q n77 Ant8 PC2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.18	3500.01					
100	PI2 BPSK	1	137	24.12			24.5	0.0		
100	PI2 BPSK	1	271	23.10						
100	PI2 BPSK	135	0	23.49			24.0	0.5		
100	PI2 BPSK	135	69	24.11			24.5	0.0		
100	PI2 BPSK	135	138	23.40			24.0	0.5		
100	PI2 BPSK	270	0	23.48						
100	QPSK	1	1	23.25						
100	QPSK	1	137	24.18			24.5	0.0		
100	QPSK	1	271	23.16						
100	QPSK	135	0	23.01			23.5	1.0		
100	QPSK	135	69	24.13			24.5	0.0		
100	QPSK	135	138	22.58			23.5	1.0		
100	QPSK	270	0	23.00						
100	16QAM	1	1	22.53			23.5	1.0		
100	64QAM	1	1	20.89			22.0	2.5		
100	256QAM	1	1	18.84			20.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	24.10	24.07	24.01	24.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.03	24.13	24.01	24.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	24.03	24.11	23.87	24.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.03	24.09	24.07	24.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.10	24.12	24.00	24.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.05	24.05	24.03	24.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.01	24.05	24.05	24.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.06	24.09	24.00	24.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	24.12	24.05	24.01	24.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.01	24.14	23.95	24.5	0.0		

Part27O n78 Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.88	3750	3750				
100	PI2 BPSK	1	137	21.81			23.0	0.0		
100	PI2 BPSK	1	271	20.83						
100	PI2 BPSK	135	0	21.87			23.0	0.0		
100	PI2 BPSK	135	69	21.78			23.0	0.0		
100	PI2 BPSK	135	138	21.83			23.0	0.0		
100	PI2 BPSK	270	0	21.65						
100	QPSK	1	1	20.95						
100	QPSK	1	137	21.89			23.0	0.0		
100	QPSK	1	271	20.86						
100	QPSK	135	0	21.74			23.0	0.0		
100	QPSK	135	69	21.85			23.0	0.0		
100	QPSK	135	138	21.67			23.0	0.0		
100	QPSK	270	0	21.72						
100	16QAM	1	1	20.76			23.0	0.0		
100	64QAM	1	1	20.71			23.0	0.0		
100	256QAM	1	1	19.77			21.5	1.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.76	21.82	21.81	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.75	21.86	21.76	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.69	21.74	21.80	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.66	21.80	21.75	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.78	21.77	21.76	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.67	21.75	21.73	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.69	21.78	21.78	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.73	21.81	21.71	23.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.72	21.82	21.72	23.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.75	21.80	21.70	23.0	0.0		

Part27O n78 Ant8 PC2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.23	3750	3750				
100	PI2 BPSK	1	137	24.11			24.5	0.0		
100	PI2 BPSK	1	271	23.15						
100	PI2 BPSK	135	0	23.35			24.0	0.5		
100	PI2 BPSK	135	69	24.06			24.5	0.0		
100	PI2 BPSK	135	138	23.32			24.0	0.5		
100	PI2 BPSK	270	0	23.38						
100	QPSK	1	1	23.28						
100	QPSK	1	137	24.18			24.5	0.0		
100	QPSK	1	271	23.18						
100	QPSK	135	0	22.94			23.5	1.0		
100	QPSK	135	69	24.11			24.5	0.0		
100	QPSK	135	138	22.58			23.5	1.0		
100	QPSK	270	0	23.05						
100	16QAM	1	1	22.49			23.5	1.0		
100	64QAM	1	1	21.02			22.0	2.5		
100	256QAM	1	1	18.84			20.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	24.10	24.07	24.01	24.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.02	24.06	24.00	24.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	24.04	24.09	23.99	24.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.04	24.08	24.02	24.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.09	24.12	24.06	24.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.08	24.03	24.01	24.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.03	24.02	24.02	24.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.05	24.01	23.97	24.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	24.08	24.07	24.03	24.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.00	24.04	24.05	24.5	0.0		



Part27Q n78 Ant8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	21.66	21.97	21.97			
100	PI2 BPSK	1	137	21.97	21.97	21.97	23.0	0.0	
100	PI2 BPSK	1	271	21.01	21.01	21.01			
100	PI2 BPSK	135	0	21.80	21.80	21.80	23.0	0.0	
100	PI2 BPSK	135	69	21.86	21.86	21.86	23.0	0.0	
100	PI2 BPSK	135	138	21.69	21.69	21.69	23.0	0.0	
100	PI2 BPSK	270	0	21.74	21.74	21.74			
100	QPSK	1	1	21.11	21.11	21.11			
100	QPSK	1	137	21.97	21.97	21.97	23.0	0.0	
100	QPSK	1	271	21.05	21.05	21.05			
100	QPSK	135	0	21.83	21.83	21.83	23.0	0.0	
100	QPSK	135	69	21.92	21.92	21.92	23.0	0.0	
100	QPSK	135	138	21.75	21.75	21.75	23.0	0.0	
100	QPSK	270	0	21.81	21.81	21.81			
100	16QAM	1	1	20.84	20.84	20.84	23.0	0.0	
100	64QAM	1	1	20.78	20.78	20.78	23.0	0.0	
100	256QAM	1	1	18.92	18.92	18.92	21.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.82	21.91	21.86	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.88	21.85	21.78	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.82	21.80	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.84	21.82	21.84	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.84	21.93	21.78	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.81	21.91	21.86	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.80	21.84	21.80	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.88	21.86	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.85	21.90	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.91	21.86	21.75	23.0	0.0	

Part27Q n78 Ant8 PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.27	23.27	23.27			
100	PI2 BPSK	1	137	24.11	24.11	24.11	24.5	0.0	
100	PI2 BPSK	1	271	23.25	23.25	23.25			
100	PI2 BPSK	135	0	23.50	23.50	23.50	24.0	0.5	
100	PI2 BPSK	135	69	24.46	24.46	24.46	24.5	0.0	
100	PI2 BPSK	135	138	23.48	23.48	23.48	24.0	0.5	
100	PI2 BPSK	270	0	23.54	23.54	23.54			
100	QPSK	1	1	23.32	23.32	23.32			
100	QPSK	1	137	24.16	24.16	24.16	24.5	0.0	
100	QPSK	1	271	23.27	23.27	23.27			
100	QPSK	135	0	23.19	23.19	23.19	23.5	1.0	
100	QPSK	135	69	24.12	24.12	24.12	24.5	0.0	
100	QPSK	135	138	22.80	22.80	22.80	23.5	1.0	
100	QPSK	270	0	23.05	23.05	23.05			
100	16QAM	1	1	22.49	22.49	22.49	23.0	1.0	
100	64QAM	1	1	20.97	20.97	20.97	22.0	2.5	
100	256QAM	1	1	18.89	18.89	18.89	20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.04	24.08	23.99	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.86	23.88	23.82	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.92	23.93	23.89	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.87	23.96	23.84	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.90	23.93	23.86	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.87	23.94	23.81	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.87	23.90	23.87	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.84	23.97	23.85	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.86	23.95	23.81	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.91	23.85	23.84	24.5	0.0	



ECI2 Power

n2 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3793000	376000	3793000			
Frequency (MHz)				1890	1890	1890			
30	PI/2 BPSK	1	1	22.93	22.95	22.76			
30	PI/2 BPSK	1	80	23.08	23.15	23.10	24.0	0.0	
30	PI/2 BPSK	1	158	22.91	22.95	22.89			
30	PI/2 BPSK	80	0	22.88	22.82	22.96	23.5	0.5	
30	PI/2 BPSK	80	40	22.99	23.10	23.00	24.0	0.0	
30	PI/2 BPSK	80	80	22.91	22.81	22.97			
30	PI/2 BPSK	160	0	22.80	22.89	22.85	23.5	0.5	
30	QPSK	1	1	22.82	22.94	22.91			
30	QPSK	1	80	23.11	23.21	23.15	24.0	0.0	
30	QPSK	1	158	22.95	22.98	22.87			
30	QPSK	80	0	22.97	22.97	22.96	23.0	1.0	
30	QPSK	80	40	23.06	23.17	23.13	24.0	0.0	
30	QPSK	80	80	22.79	22.81	22.21	23.0	1.0	
30	QPSK	160	0	22.17	22.35	22.32	23.0	1.0	
30	16QAM	1	1	21.69	21.79	21.72	23.0	1.0	
30	64QAM	1	1	20.17	20.28	20.13	21.5	2.5	
30	256QAM	1	1	18.76	18.82	18.78	19.5	4.5	
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1897.5			
25	QPSK	1	1	22.83	22.93	22.96	24.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1890	1890	1900			
20	QPSK	1	1	22.91	22.92	22.98	24.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1897.5	1890	1892.5			
15	QPSK	1	1	22.97	23.06	23.04	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1895	1890	1905			
10	QPSK	1	1	22.07	22.19	22.08	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1897.5			
5	QPSK	1	1	22.98	23.11	23.03	24.0	0.0	

n5 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				167300	167300	167300			
Frequency (MHz)				836.5	836.5	836.5			
25	PI/2 BPSK	1	1	22.62					
25	PI/2 BPSK	1	67		22.85		24.0	0.0	
25	PI/2 BPSK	1	131		22.65				
25	PI/2 BPSK	64	0		22.28		23.5	0.5	
25	PI/2 BPSK	64	35		22.87		24.0	0.0	
25	PI/2 BPSK	64	69		22.30		23.5	0.5	
25	PI/2 BPSK	128	0		22.34				
25	QPSK	1	1	22.82	22.97		24.0	0.0	
25	QPSK	1	67		22.92				
25	QPSK	1	131		22.50				
25	QPSK	64	0		21.74		23.0	1.0	
25	QPSK	64	35		22.86		24.0	0.0	
25	QPSK	64	69		21.78		23.0	1.0	
25	QPSK	128	0		21.83		23.0	1.0	
25	16QAM	1	1		21.32		23.0	1.0	
25	64QAM	1	1		20.00		21.5	2.5	
25	256QAM	1	1		18.53		19.5	4.5	
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				834	836.5	838			
20	QPSK	1	1	22.84	22.89	22.73	0.0	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.77	22.86	22.75	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.82	22.88	22.75	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.78	22.80	22.75	24.0	0.0	

n12 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	707.5			
15	PI/2 BPSK	1	1	22.84	22.98	22.75			
15	PI/2 BPSK	1	40	22.75	22.83	22.71	24.0	0.0	
15	PI/2 BPSK	1	77	22.73	22.80	22.71			
15	PI/2 BPSK	36	0	22.95	22.85	22.92	23.5	0.5	
15	PI/2 BPSK	36	22	22.69	22.81	22.70	24.0	0.0	
15	PI/2 BPSK	36	43	22.54	22.61	22.50	23.5	0.5	
15	PI/2 BPSK	72	0	22.88	22.64	22.61			
15	QPSK	1	1	22.87	22.92	22.81			
15	QPSK	1	40	22.83	22.87	22.77	24.0	0.0	
15	QPSK	1	77	22.72	22.81	22.66			
15	QPSK	36	0	22.04	22.12	22.08	23.0	1.0	
15	QPSK	36	22	22.82	22.85	22.77	24.0	0.0	
15	QPSK	36	43	22.02	22.07	21.94	23.0	1.0	
15	QPSK	72	0	22.05	22.13	22.00			
15	16QAM	1	1	21.72	21.76	21.69	23.0	1.0	
15	64QAM	1	1	20.11	20.22	20.18	21.5	2.5	
15	256QAM	1	1	18.70	18.83	18.77	19.5	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.82	22.85	22.72	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.72	22.80	22.67	24.0	0.0	



n14 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.57	22.57	22.57			
10	PI2 BPSK	1	25	22.53	22.53	22.53	24.0	0.0	
10	PI2 BPSK	1	50	22.50	22.50	22.50			
10	PI2 BPSK	25	0	22.12	22.12	22.12	23.5	0.5	
10	PI2 BPSK	25	14	22.26	22.26	22.26	24.0	0.0	
10	PI2 BPSK	25	27	22.07	22.07	22.07			
10	PI2 BPSK	50	0	22.14	22.14	22.14	23.5	0.5	
10	QPSK	1	1	22.64	22.64	22.64			
10	QPSK	1	26	22.58	22.58	22.58	24.0	0.0	
10	QPSK	1	50	22.55	22.55	22.55			
10	QPSK	25	0	21.73	21.73	21.73	23.0	1.0	
10	QPSK	25	14	22.60	22.60	22.60	24.0	0.0	
10	QPSK	25	27	21.86	21.86	21.86	23.0	1.0	
10	QPSK	50	0	21.78	21.78	21.78	23.0	1.0	
10	16QAM	1	1	21.36	21.36	21.36	23.0	1.0	
10	64QAM	1	1	19.91	19.91	19.91	21.5	2.5	
10	256QAM	1	1	18.48	18.48	18.48	19.5	4.5	
Channel									
				159.100	159.000	159.100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.53	22.52	22.49	24.0	0.0	

n25 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	22.23	22.27	22.30			
45	PI2 BPSK	1	61	22.97	23.11	22.98	24.0	0.0	
45	PI2 BPSK	1	121	22.36	22.45	22.31			
45	PI2 BPSK	121	0	22.41	22.51	22.27	23.5	0.5	
45	PI2 BPSK	121	61	22.92	23.06	23.00	24.0	0.0	
45	PI2 BPSK	121	121	22.54	22.58	22.51			
45	PI2 BPSK	242	0	22.50	22.62	22.55	23.5	0.5	
45	QPSK	1	1	22.35	22.42	22.40			
45	QPSK	1	61	23.09	23.17	23.11	24.0	0.0	
45	QPSK	1	121	22.40	22.48	22.43			
45	QPSK	121	0	22.10	22.16	22.02	23.0	1.0	
45	QPSK	121	61	23.02	23.11	23.07	24.0	0.0	
45	QPSK	121	121	22.12	22.18	22.03	23.0	1.0	
45	QPSK	242	0	22.09	22.25	22.01	23.0	1.0	
45	16QAM	1	1	21.21	21.33	21.25	23.0	1.0	
45	64QAM	1	1	19.75	19.84	19.79	21.5	2.5	
45	256QAM	1	1	18.27	18.41	18.28	18.5	4.5	
Channel									
				374000	376000	375000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1870	1882.5	1886			
40	QPSK	1	1	22.89	23.02	23.04	0.0	0.0	
Channel									
				372500	376000	376500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1897.5			
35	QPSK	1	1	23.03	23.10	23.07	24.0	0.0	
Channel									
				373000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.99	23.09	23.03	24.0	0.0	
Channel									
				372500	376000	385000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1922.5			
25	QPSK	1	1	23.00	23.07	23.00	24.0	0.0	
Channel									
				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.97	23.04	23.00	24.0	0.0	
Channel									
				371500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.98	23.11	22.98	24.0	0.0	
Channel									
				371000	376000	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1864	1882.5	1914			
10	QPSK	1	1	22.95	23.04	23.07	24.0	0.0	
Channel									
				370500	376000	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.90	23.13	22.99	24.0	0.0	

n26 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.74	22.81	22.76			
20	PI2 BPSK	1	53	22.63	22.68	22.67	24.0	0.0	
20	PI2 BPSK	1	104	22.61	22.71	22.67			
20	PI2 BPSK	50	0	22.20	22.25	22.21	23.5	0.5	
20	PI2 BPSK	50	28	22.76	22.80	22.71	24.0	0.0	
20	PI2 BPSK	50	56	22.20	22.31	22.19	23.5	0.5	
20	PI2 BPSK	100	0	22.23	22.27	22.28			
20	QPSK	1	1	22.80	22.91	22.82			
20	QPSK	1	53	22.69	22.75	22.68	24.0	0.0	
20	QPSK	1	104	22.62	22.69	22.59			
20	QPSK	50	0	21.81	21.84	21.81	23.0	1.0	
20	QPSK	50	28	22.78	22.87	22.80	24.0	0.0	
20	QPSK	50	56	21.86	21.80	21.71	23.0	1.0	
20	QPSK	100	0	21.84	21.88	21.81	23.0	1.0	
20	16QAM	1	1	21.36	21.43	21.30	23.0	1.0	
20	64QAM	1	1	19.95	20.06	19.99	21.5	2.5	
20	256QAM	1	1	18.51	18.62	18.57	18.5	4.5	
Channel									
				164300	166300	165300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.74	22.82	22.73	24.0	0.0	
Channel									
				163500	166000	165500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	845			
10	QPSK	1	1	22.68	22.78	22.67	24.0	0.0	
Channel									
				163300	166300	165900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.74	22.87	22.75	24.0	0.0	



n66 Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
45	PI2 BPSK	1	1	22.23	22.31	22.15		
45	PI2 BPSK	1	61	22.78	22.88	22.77	24.0	0.0
45	PI2 BPSK	1	121	22.17	22.23	22.10		
45	PI2 BPSK	121	0	22.52	22.59	22.47	23.5	0.5
45	PI2 BPSK	121	61	22.71	22.85	22.80	24.0	0.0
45	PI2 BPSK	121	121	22.48	22.55	22.41	23.5	0.5
45	PI2 BPSK	242	0	22.48	22.62	22.54		
45	QPSK	1	1	22.30	22.34	22.23	24.0	0.0
45	QPSK	1	61	22.87	22.93	22.91		
45	QPSK	1	121	22.14	22.25	22.17		
45	QPSK	121	0	21.98	22.02	21.90	23.0	1.0
45	QPSK	121	61	22.82	22.89	22.81	24.0	0.0
45	QPSK	121	121	21.94	22.04	21.87	23.0	1.0
45	QPSK	242	0	21.99	22.11	22.07		
45	16QAM	1	1	21.17	21.24	21.20	23.0	1.0
45	64QAM	1	1	19.60	19.73	19.65	21.5	2.5
45	256QAM	1	1	18.34	18.37	18.33	19.5	4.5
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.85	22.83	22.82	24.0	0.0
Channel								
Frequency (MHz)								
35	QPSK	1	1	22.85	22.83	22.82	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.72	22.87	22.78	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.74	22.79	22.77	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.82	22.88	22.78	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.79	22.80	22.86	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.74	22.85	22.85	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.81	22.81	22.77	24.0	0.0

n70 Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.93	22.93	22.93		
15	PI2 BPSK	1	40	22.80	22.80	22.80	24.0	0.0
15	PI2 BPSK	1	77	22.86	22.86	22.86		
15	PI2 BPSK	36	0	22.48	22.48	22.48	23.5	0.5
15	PI2 BPSK	36	22	22.90	22.90	22.90	24.0	0.0
15	PI2 BPSK	36	43	22.48	22.48	22.48	23.5	0.5
15	PI2 BPSK	75	0	22.52	22.52	22.52		
15	QPSK	1	1	22.98	22.98	22.98	24.0	0.0
15	QPSK	1	40	22.89	22.89	22.89		
15	QPSK	1	77	22.81	22.81	22.81	23.0	1.0
15	QPSK	36	0	22.13	22.13	22.13	23.0	1.0
15	QPSK	36	22	22.92	22.92	22.92	24.0	0.0
15	QPSK	36	43	22.14	22.14	22.14	23.0	1.0
15	QPSK	75	0	22.17	22.17	22.17		
15	16QAM	1	1	21.78	21.78	21.78	23.0	1.0
15	64QAM	1	1	20.25	20.25	20.25	21.5	2.5
15	256QAM	1	1	18.86	18.86	18.86	19.5	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.80	22.87	22.77	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.78	22.89	22.82	24.0	0.0

n71 Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.92	23.04	22.97		
20	PI2 BPSK	1	53	22.84	22.91	22.78	24.0	0.0
20	PI2 BPSK	1	104	22.73	22.83	22.79		
20	PI2 BPSK	50	0	22.45	22.52	22.40	23.5	0.5
20	PI2 BPSK	50	28	22.94	23.02	22.98	24.0	0.0
20	PI2 BPSK	50	56	22.48	22.52	22.38	23.5	0.5
20	PI2 BPSK	100	0	22.50	22.58	22.52		
20	QPSK	1	1	23.07	23.11	23.01	24.0	0.0
20	QPSK	1	53	22.90	22.95	22.93		
20	QPSK	1	104	22.98	22.76	22.82	23.0	1.0
20	QPSK	50	0	21.85	21.94	21.82	23.0	1.0
20	QPSK	50	28	23.00	23.07	22.96	24.0	0.0
20	QPSK	50	56	21.86	22.00	21.81	23.0	1.0
20	QPSK	100	0	22.01	22.04	21.97		
20	16QAM	1	1	21.60	21.66	21.55	23.0	1.0
20	64QAM	1	1	20.07	20.13	20.00	21.5	2.5
20	256QAM	1	1	18.61	18.70	18.62	19.5	4.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.95	23.05	22.98	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.93	23.01	22.97	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.92	23.08	22.96	24.0	0.0



n7 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	23.10	23.18	23.04			
50	PI/2 BPSK	1	135	23.00	23.07	22.98	24.0	0.0	
50	PI/2 BPSK	1	268	22.83	22.86	22.82			
50	PI/2 BPSK	135	0	22.65	22.78	22.74	23.5	0.5	
50	PI/2 BPSK	135	68	23.01	23.14	23.09	24.0	0.0	
50	PI/2 BPSK	135	135	22.53	22.58	22.52			
50	PI/2 BPSK	270	0	22.51	22.66	22.61	23.5	0.5	
50	QPSK	1	1	23.17	23.23	23.12			
50	QPSK	1	135	23.06	23.11	23.00	24.0	0.0	
50	QPSK	1	268	22.73	22.82	22.70			
50	QPSK	135	0	22.20	22.23	22.08	23.0	1.0	
50	QPSK	135	68	23.12	23.16	23.05	24.0	0.0	
50	QPSK	135	135	22.04	22.09	22.01			
50	QPSK	270	0	22.08	22.13	22.01	23.0	1.0	
50	16QAM	1	1	21.78	21.84	21.72	23.0	1.0	
50	64QAM	1	1	20.25	20.37	20.22	21.5	2.5	
50	256QAM	1	1	18.89	18.92	18.84	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	23.07	23.15	23.00	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.14	23.20	23.07	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.03	23.19	23.04	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	23.06	23.18	22.98	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.04	23.10	23.07	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.04	23.11	23.05	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.02	23.16	23.04	24.0	0.0	

n30 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		23.22				
10	PI/2 BPSK	1	26		23.16		24.0	0.0	
10	PI/2 BPSK	1	50		22.86				
10	PI/2 BPSK	25	0		22.79		23.5	0.5	
10	PI/2 BPSK	25	14		23.18		24.0	0.0	
10	PI/2 BPSK	25	27		22.53				
10	PI/2 BPSK	50	0		22.61		23.5	0.5	
10	QPSK	1	1		23.28				
10	QPSK	1	26		23.19		24.0	0.0	
10	QPSK	1	50		22.95				
10	QPSK	25	0		22.24		23.0	1.0	
10	QPSK	25	14		23.21		24.0	0.0	
10	QPSK	25	27		22.05				
10	QPSK	50	0		22.12		23.0	1.0	
10	16QAM	1	1		22.06		23.0	1.0	
10	64QAM	1	1		20.39		21.5	2.5	
10	256QAM	1	1		18.89		19.5	4.5	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	23.15	23.22	23.12	24.0	0.0	

**n41 Ant1 EC12**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				505202	518598	526000		
Frequency (MHz)				2648.01	2662.99	2660		
100	PI2 BPSK	1	1	21.67	21.71	21.60		
100	PI2 BPSK	1	137	22.69	22.75	22.66	23.5	0.0
100	PI2 BPSK	1	271	21.53	21.59	21.60		
100	PI2 BPSK	135	0	22.62	22.68	22.57	23.5	0.0
100	PI2 BPSK	135	69	22.61	22.70	22.56	23.5	0.0
100	PI2 BPSK	135	138	22.51	22.55	22.45	23.5	0.0
100	PI2 BPSK	270	0	22.67	22.67	22.53		
100	QPSK	1	1	21.51	21.80	21.84		
100	QPSK	1	137	22.65	22.62	22.59	23.5	0.0
100	QPSK	1	271	21.55	21.66	21.58		
100	QPSK	135	0	22.64	22.71	22.64	23.5	0.0
100	QPSK	135	69	22.64	22.72	22.53	23.5	0.0
100	QPSK	135	138	22.44	22.54	22.51	23.5	0.0
100	QPSK	270	0	22.47	22.62	22.39		
100	HQAM	1	1	21.54	21.59	21.62	23.5	0.0
100	HQAM	1	1	21.51	21.55	21.51	23.5	0.0
100	SSGAM	1	1	20.56	20.66	20.81	22.0	1.5
Channel				508200	518598	526996		
Frequency (MHz)				2541	2562.99	2644.98		
90	QPSK	1	1	22.57	22.71	22.51	23.5	0.0
Channel				507204	518598	526996		
Frequency (MHz)				2536.02	2562.99	2649.98		
80	QPSK	1	1	22.51	22.71	22.49	23.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2432	2462.99	2659.98		
70	QPSK	1	1	22.54	22.73	22.45	23.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2428	2462.99	2659.98		
80	QPSK	1	1	22.57	22.68	22.48	23.5	0.0
Channel				504204	518598	532996		
Frequency (MHz)				2521.02	2562.99	2664.98		
50	QPSK	1	1	22.58	22.70	22.51	23.5	0.0
Channel				503202	518598	533996		
Frequency (MHz)				2516.01	2562.99	2670		
40	QPSK	1	1	22.54	22.70	22.50	23.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2506	2562.99	2679.98		
30	QPSK	1	1	22.55	22.72	22.45	23.5	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2562.99	2679.98		
20	QPSK	1	1	22.58	22.68	22.51	23.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2562.99	2685		
15	QPSK	1	1	22.51	22.68	22.51	23.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2562.99	2685		
10	QPSK	1	1	22.52	22.52	22.51	23.5	0.0

n41 Ant1 PC2 EC12

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				506202	518598	526000		
Frequency (MHz)				2648.01	2662.99	2660		
100	PI2 BPSK	1	1	24.65	24.65	24.57		
100	PI2 BPSK	1	137	25.51	25.61	25.51	26.5	0.0
100	PI2 BPSK	1	271	24.56	24.55	24.52		
100	PI2 BPSK	135	0	25.13	25.25	25.16	26.5	0.0
100	PI2 BPSK	135	69	25.48	25.56	25.51	26.5	0.0
100	PI2 BPSK	135	138	24.93	25.01	24.88	26.5	0.0
100	PI2 BPSK	270	0	24.91	25.02	24.97		
100	QPSK	1	1	24.57	24.60	24.62		
100	QPSK	1	137	25.60	25.65	25.46	26.5	0.0
100	QPSK	1	271	24.52	24.52	24.41		
100	QPSK	135	0	24.56	24.64	24.62	26.0	0.5
100	QPSK	135	69	25.55	25.63	25.59	26.5	0.0
100	QPSK	135	138	24.49	24.53	24.42	26.0	0.5
100	QPSK	270	0	24.47	24.62	24.32		
100	HQAM	1	1	23.78	23.79	23.72	26.0	0.5
100	HQAM	1	1	22.26	22.29	22.26	24.5	2.0
100	SSGAM	1	1	18.78	18.88	18.83	22.5	4.0
Channel				508200	518598	526996		
Frequency (MHz)				2541	2562.99	2644.98		
90	QPSK	1	1	24.51	25.09	24.44	23.5	0.0
Channel				507204	518598	526996		
Frequency (MHz)				2536.02	2562.99	2649.98		
80	QPSK	1	1	24.96	25.05	24.84	26.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2432	2462.99	2659.98		
70	QPSK	1	1	24.96	25.06	24.80	26.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2428	2462.99	2659.98		
80	QPSK	1	1	24.92	25.05	24.84	26.5	0.0
Channel				504204	518598	532996		
Frequency (MHz)				2521.02	2562.99	2664.98		
50	QPSK	1	1	24.92	25.07	24.81	26.5	0.0
Channel				503202	518598	533996		
Frequency (MHz)				2516.01	2562.99	2670		
40	QPSK	1	1	24.92	25.08	24.84	26.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2506	2562.99	2679.98		
30	QPSK	1	1	24.92	25.07	24.79	26.5	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2562.99	2679.98		
20	QPSK	1	1	24.54	25.04	24.80	26.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2562.99	2685		
15	QPSK	1	1	24.96	25.04	24.83	26.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2562.99	2685		
10	QPSK	1	1	24.92	25.04	24.82	26.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000		
Frequency (MHz)				3700	3840	3900		
100	PI2 BPSK	1	1	19.12	19.22	19.17		
100	PI2 BPSK	1	137	19.98	20.03	19.96	21.0	0.0
100	PI2 BPSK	1	271	19.05	19.11	19.05		
100	PI2 BPSK	135	0	19.94	19.97	19.90	21.0	0.0
100	PI2 BPSK	135	69	19.94	20.04	19.98	21.0	0.0
100	PI2 BPSK	135	138	19.80	19.88	19.82	21.0	0.0
100	PI2 BPSK	270	0	19.81	19.85	19.86		
100	QPSK	1	1	19.34	19.37	19.19		
100	QPSK	1	137	20.08	20.25	20.01	21.0	0.0
100	QPSK	1	271	18.91	19.02	18.87		
100	QPSK	135	0	19.86	20.00	19.87	21.0	0.0
100	QPSK	135	69	20.17	20.21	19.96	21.0	0.0
100	QPSK	135	138	19.87	19.96	19.81	21.0	0.0
100	QPSK	270	0	19.91	20.07	19.84		
100	HQAM	1	1	19.01	19.08	18.94	21.0	0.0
100	HQAM	1	1	18.86	19.01	18.94	21.0	0.0
100	SSGAM	1	1	18.10	18.14	17.99	19.5	1.5
Channel				648668	650000	662334		
Frequency (MHz)				3745.02	3840	3936.01		
90	QPSK	1	1	20.03	20.24	19.87	21.0	0.0
Channel				645334	650000	662666		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.01	20.21	19.93	21.0	0.0
Channel				640000	650000	663000		
Frequency (MHz)				3735.02	3840	3950.01		
70	QPSK	1	1	20.04	20.23	19.91	21.0	0.0
Channel				648668	650000	663334		
Frequency (MHz)				3730.01	3840	3950.01		
80	QPSK	1	1	19.95	20.17	19.88	21.0	0.0
Channel				645334	650000	663668		
Frequency (MHz)				3725.01	3840	3965.02		
50	QPSK	1	1	20.01	20.25	19.96	21.0	0.0
Channel				640000	650000	664000		
Frequency (MHz)				3720.01	3840	3960		
40	QPSK	1	1	19.96	20.16	19.90	21.0	0.0
Channel				647668	650000	664334		
Frequency (MHz)				3715.01	3840	3970.02		
30	QPSK	1	1	19.96	20.14	19.91	21.0	0.0
Channel				645334	650000	664668		
Frequency (MHz)				3710.01	3840	3975.01		
20	QPSK	1	1	20.01	20.15	19.94	21.0	0.0
Channel				647668	650000	664996		
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	19.97	20.18	19.95	21.0	0.0
Channel				645000	650000	665000		
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	19.94	20.19	19.88	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	19.68	19.74	19.82		
100	PI2 BPSK	1	137	20.51	20.47	20.44	21.0	0.0
100	PI2 BPSK	1	271	19.51	19.60	19.52		
100	PI2 BPSK	135	0	20.38	20.41	20.35	21.0	0.0
100	PI2 BPSK	135	69	20.46	20.52	20.48	21.0	0.0
100	PI2 BPSK	135	138	20.35	20.37	20.35	21.0	0.0
100	PI2 BPSK	270	0	20.38	20.48	20.35		
100	QPSK	1	1	19.91	19.77	19.75		
100	QPSK	1	137	20.58	20.78	20.51	21.0	0.0
100	QPSK	1	271	19.34	19.48	19.43		
100	QPSK	135	0	20.39	20.45	20.41	21.0	0.0
100	QPSK	135	69	20.67	20.74	20.39	21.0	0.0
100	QPSK	135	138	20.44	20.52	20.25	21.0	0.0
100	QPSK	270	0	20.34	20.58	20.41		
100	16QAM	1	1	19.53	19.56	19.50	21.0	0.0
100	16QAM	1	1	19.40	19.53	19.46	21.0	0.0
100	256QAM	1	1	18.23	18.33	18.34	19.5	1.5
Channel								
Frequency (MHz)				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745.02	3840	3505.01	21.0	0.0
Channel								
Frequency (MHz)				64933	65000	65068	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3500.02	21.0	0.0
Channel								
Frequency (MHz)				64900	65000	65000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.33	20.49	20.30	21.0	0.0
Channel								
Frequency (MHz)				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3745.02	3840	3505.01	21.0	0.0
Channel								
Frequency (MHz)				64833	65000	65068	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.34	20.43	20.28	21.0	0.0
Channel								
Frequency (MHz)				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.43	20.44	20.26	21.0	0.0
Channel								
Frequency (MHz)				64768	65000	65034	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.38	20.45	20.28	21.0	0.0
Channel								
Frequency (MHz)				64733	65000	65068	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.41	20.47	20.34	21.0	0.0
Channel								
Frequency (MHz)				64700	65000	65000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.40	20.52	20.29	21.0	0.0
Channel								
Frequency (MHz)				64668	65000	65068	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.32	20.48	20.29	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63334				
100	PI2 BPSK	1	1	19.26	19.26	19.26		
100	PI2 BPSK	1	137	20.28	20.28	20.28	21.0	0.0
100	PI2 BPSK	1	271	19.41	19.41	19.41		
100	PI2 BPSK	135	0	20.12	20.12	20.12	21.0	0.0
100	PI2 BPSK	135	69	20.24	20.24	20.24	21.0	0.0
100	PI2 BPSK	135	138	20.19	20.19	20.19	21.0	0.0
100	PI2 BPSK	270	0	20.11	20.11	20.11		
100	QPSK	1	1	19.33	19.33	19.33		
100	QPSK	1	137	20.34	20.34	20.34	21.0	0.0
100	QPSK	1	271	19.46	19.46	19.46		
100	QPSK	135	0	20.15	20.15	20.15	21.0	0.0
100	QPSK	135	69	20.29	20.29	20.29	21.0	0.0
100	QPSK	135	138	20.16	20.16	20.16	21.0	0.0
100	QPSK	270	0	20.08	20.08	20.08		
100	16QAM	1	1	19.18	19.18	19.18	21.0	0.0
100	16QAM	1	1	19.13	19.13	19.13	21.0	0.0
100	256QAM	1	1	18.21	18.21	18.21	19.5	1.5
Channel								
Frequency (MHz)				63300	63334	63368	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3495	3500.01	3505.02	21.0	0.0
Channel								
Frequency (MHz)				63268	63334	63400	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3490.02	3500.01	3510	21.0	0.0
Channel								
Frequency (MHz)				63234	63334	63400	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.20	20.27	20.19	21.0	0.0
Channel								
Frequency (MHz)				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.21	20.29	20.20	21.0	0.0
Channel								
Frequency (MHz)				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.12	20.31	20.12	21.0	0.0
Channel								
Frequency (MHz)				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.14	20.21	20.19	21.0	0.0
Channel								
Frequency (MHz)				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.11	20.20	20.14	21.0	0.0
Channel								
Frequency (MHz)				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.14	20.26	20.19	21.0	0.0
Channel								
Frequency (MHz)				63030	63334	63634	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.14	20.29	20.18	21.0	0.0
Channel								
Frequency (MHz)				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.21	20.30	20.20	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63334				
100	PI2 BPSK	1	1	19.71	19.71	19.71		
100	PI2 BPSK	1	137	20.72	20.72	20.72	21.0	0.0
100	PI2 BPSK	1	271	19.90	19.90	19.90		
100	PI2 BPSK	135	0	20.68	20.68	20.68	21.0	0.0
100	PI2 BPSK	135	69	20.79	20.79	20.79	21.0	0.0
100	PI2 BPSK	135	138	20.85	20.85	20.85	21.0	0.0
100	PI2 BPSK	270	0	20.82	20.82	20.82		
100	QPSK	1	1	19.89	19.89	19.89		
100	QPSK	1	137	20.99	20.99	20.99	21.0	0.0
100	QPSK	1	271	19.98	19.98	19.98		
100	QPSK	135	0	20.89	20.89	20.89	21.0	0.0
100	QPSK	135	69	20.92	20.92	20.92	21.0	0.0
100	QPSK	135	138	20.94	20.94	20.94	21.0	0.0
100	QPSK	270	0	20.98	20.98	20.98		
100	16QAM	1	1	19.84	19.84	19.84	21.0	0.0
100	16QAM	1	1	19.80	19.80	19.80	21.0	0.0
100	256QAM	1	1	18.73	18.73	18.73	19.5	1.5
Channel								
Frequency (MHz)				63300	63334	63368	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.55	20.63	20.60	21.0	0.0
Channel								
Frequency (MHz)				63268	63334	63400	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.63	20.76	20.64	21.0	0.0
Channel								
Frequency (MHz)				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.56	20.63	20.69	21.0	0.0
Channel								
Frequency (MHz)				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.62	20.69	20.72	21.0	0.0
Channel								
Frequency (MHz)				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.65	20.70	20.67	21.0	0.0
Channel								
Frequency (MHz)				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.57	20.63	20.61	21.0	0.0
Channel								
Frequency (MHz)				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.55	20.72	20.64	21.0	0.0
Channel								
Frequency (MHz)				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.58	20.62	20.67	21.0	0.0
Channel								
Frequency (MHz)				63030	63334	63634	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.60	20.75	20.69	21.0	0.0
Channel								
Frequency (MHz)				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.59	20.65	20.64	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3745.02				
100	PI2 BPSK	1	1	19.37				
100	PI2 BPSK	1	137	20.31			21.0	0.0
100	PI2 BPSK	1	271	19.29				
100	PI2 BPSK	135	0	20.14			21.0	0.0
100	PI2 BPSK	135	69	20.31			21.0	0.0
100	PI2 BPSK	135	138	20.09			21.0	0.0
100	PI2 BPSK	270	0	20.03				
100	QPSK	1	1	19.42			21.0	0.0
100	QPSK	1	137	20.37				
100	QPSK	1	271	19.33				
100	QPSK	135	0	20.19			21.0	0.0
100	QPSK	135	69	20.33			21.0	0.0
100	QPSK	135	138	20.14			21.0	0.0
100	QPSK	270	0	20.06				
100	16QAM	1	1	19.21			21.0	0.0
100	16QAM	1	1	19.15			21.0	0.0
100	256QAM	1	1	18.27			19.5	1.5
Channel				648668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dB)	(dB)
90	QPSK	1	1	20.29	20.32	20.21	21.0	0.0
Channel				642534	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dB)	(dB)
80	QPSK	1	1	20.25	20.30	20.24	21.0	0.0
Channel				648000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3742.02	3750	3760.01	(dB)	(dB)
70	QPSK	1	1	20.20	20.33	20.16	21.0	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3742.02	3750	3760.01	(dB)	(dB)
80	QPSK	1	1	20.22	20.26	20.17	21.0	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dB)	(dB)
50	QPSK	1	1	20.25	20.28	20.21	21.0	0.0
Channel				642000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3760	(dB)	(dB)
40	QPSK	1	1	20.20	20.26	20.19	21.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3718.02	3750	3765.01	(dB)	(dB)
30	QPSK	1	1	20.28	20.22	20.20	21.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3718.01	3750	3765.02	(dB)	(dB)
20	QPSK	1	1	20.24	20.25	20.21	21.0	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3762.51	(dB)	(dB)
15	QPSK	1	1	20.30	20.30	20.25	21.0	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3765	(dB)	(dB)
10	QPSK	1	1	20.25	20.32	20.22	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3745.02				
100	PI2 BPSK	1	1	19.61				
100	PI2 BPSK	1	137	20.49			21.0	0.0
100	PI2 BPSK	1	271	19.55				
100	PI2 BPSK	135	0	20.34			21.0	0.0
100	PI2 BPSK	135	69	20.53			21.0	0.0
100	PI2 BPSK	135	138	20.26			21.0	0.0
100	PI2 BPSK	270	0	20.18				
100	QPSK	1	1	19.82			21.0	0.0
100	QPSK	1	137	20.55				
100	QPSK	1	271	19.48				
100	QPSK	135	0	20.42			21.0	0.0
100	QPSK	135	69	20.53			21.0	0.0
100	QPSK	135	138	20.27			21.0	0.0
100	QPSK	270	0	20.26				
100	16QAM	1	1	19.36			21.0	0.0
100	16QAM	1	1	19.34			21.0	0.0
100	256QAM	1	1	18.43			19.5	1.5
Channel				648668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dB)	(dB)
90	QPSK	1	1	20.47	20.48	20.47	21.0	0.0
Channel				642534	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dB)	(dB)
80	QPSK	1	1	20.48	20.46	20.45	21.0	0.0
Channel				648000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3742.02	3750	3760.01	(dB)	(dB)
70	QPSK	1	1	20.44	20.49	20.38	21.0	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3742.02	3750	3760.01	(dB)	(dB)
80	QPSK	1	1	20.49	20.45	20.45	21.0	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dB)	(dB)
50	QPSK	1	1	20.51	20.51	20.43	21.0	0.0
Channel				642000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3760	(dB)	(dB)
40	QPSK	1	1	20.52	20.53	20.38	21.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3718.02	3750	3765.01	(dB)	(dB)
30	QPSK	1	1	20.52	20.51	20.40	21.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3718.01	3750	3765.02	(dB)	(dB)
20	QPSK	1	1	20.48	20.47	20.40	21.0	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3762.51	(dB)	(dB)
15	QPSK	1	1	20.54	20.52	20.47	21.0	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3765	(dB)	(dB)
10	QPSK	1	1	20.48	20.54	20.46	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3480.02				
100	PI2 BPSK	1	1	19.18				
100	PI2 BPSK	1	137	20.06			21.0	0.0
100	PI2 BPSK	1	271	19.48				
100	PI2 BPSK	135	0	19.84			21.0	0.0
100	PI2 BPSK	135	69	19.79			21.0	0.0
100	PI2 BPSK	135	138	19.92			21.0	0.0
100	PI2 BPSK	270	0	19.74				
100	QPSK	1	1	19.34			21.0	0.0
100	QPSK	1	137	20.13				
100	QPSK	1	271	19.52				
100	QPSK	135	0	19.69			21.0	0.0
100	QPSK	135	69	20.04			21.0	0.0
100	QPSK	135	138	19.87			21.0	0.0
100	QPSK	270	0	19.95				
100	16QAM	1	1	18.83			21.0	0.0
100	16QAM	1	1	18.79			21.0	0.0
100	256QAM	1	1	18.25			19.5	1.5
Channel				630000	633334	636668	Tune-up limit	MPR
Frequency (MHz)				3485	3500.01	3505.02	(dB)	(dB)
90	QPSK	1	1	20.04	20.06	19.69	21.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3480.02	3500.01	3510	(dB)	(dB)
80	QPSK	1	1	19.99	20.01	19.92	21.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3510.02	(dB)	(dB)
70	QPSK	1	1	19.96	20.07	19.87	21.0	0.0
Channel				630000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3510.02	(dB)	(dB)
80	QPSK	1	1	20.04	20.01	19.93	21.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dB)	(dB)
50	QPSK	1	1	20.01	20.08	19.86	21.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3475.01	3500.01	3510.01	(dB)	(dB)
40	QPSK	1	1	20.00	20.03	19.86	21.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3475.01	3500.01	3510.01	(dB)	(dB)
30	QPSK	1	1	19.99	19.98	19.86	21.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3475.01	3500.01	3510.01	(dB)	(dB)
20	QPSK	1	1	19.97	20.09	19.84	21.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3475.01	3500.01	3510.01	(dB)	(dB)
15	QPSK	1	1	19.96	19.99	19.93	21.0	0.0
Channel				630000	633334	636668	Tune-up limit	MPR
Frequency (MHz)				3475.01	3500.01	3510.01	(dB)	(dB)
10	QPSK	1	1	19.97	20.04	19.89	21.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3609.01				
100	PI2 BPSK	1	1		19.42			
100	PI2 BPSK	1	137		20.38		21.0	0.0
100	PI2 BPSK	1	271		19.82			
100	PI2 BPSK	135	0		19.97		21.0	0.0
100	PI2 BPSK	135	69		20.11		21.0	0.0
100	PI2 BPSK	135	138		20.19		21.0	0.0
100	PI2 BPSK	270	0		20.04			
100	QPSK	1	1		19.90			
100	QPSK	1	137		20.45		21.0	0.0
100	QPSK	1	271		19.87			
100	QPSK	135	0		19.97		21.0	0.0
100	QPSK	135	69		20.35		21.0	0.0
100	QPSK	135	138		20.20		21.0	0.0
100	QPSK	270	0		20.21			
100	16QAM	1	1		19.15		21.0	0.0
100	64QAM	1	1		18.14		21.0	0.0
100	256QAM	1	1		18.55		19.5	1.5
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	20.38	20.35	20.13	21.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3469.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	20.38	20.31	20.15	21.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3483.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	20.37	20.38	20.16	21.0	0.0
Channel				632000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3505.02	(dBm)	(dB)
60	QPSK	1	1	20.30	20.32	20.20	21.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	20.35	20.33	20.24	21.0	0.0
Channel				631334	633334	633334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	20.39	20.38	20.16	21.0	0.0
Channel				631000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	20.33	20.37	20.23	21.0	0.0
Channel				630668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	20.32	20.37	20.20	21.0	0.0
Channel				630300	633334	634168	Tune-up limit	MPR
Frequency (MHz)				3467.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	20.32	20.42	20.25	21.0	0.0
Channel				630334	633334	633334	Tune-up limit	MPR
Frequency (MHz)				3458.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	20.29	20.39	20.17	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505202	518598	526000			
Frequency (MHz)				2648.01	2662.99	2660			
100	PI2 BPSK	1	1	22.27	22.35	22.23			
100	PI2 BPSK	1	137	23.45	23.52	23.41	24.0	0.0	
100	PI2 BPSK	1	271	22.33	22.42	22.37			
100	PI2 BPSK	135	0	23.41	23.44	23.31	24.0	0.0	
100	PI2 BPSK	135	69	23.38	23.48	23.38	24.0	0.0	
100	PI2 BPSK	135	138	23.26	23.38	23.32	24.0	0.0	
100	PI2 BPSK	270	0	23.32	23.41	23.31			
100	QPSK	1	1	22.08	22.42	22.74			
100	QPSK	1	137	23.31	23.60	23.26	24.0	0.0	
100	QPSK	1	271	22.30	22.34	22.21			
100	QPSK	135	0	23.44	23.52	23.41	24.0	0.0	
100	QPSK	135	69	23.23	23.36	23.18	24.0	0.0	
100	QPSK	135	138	23.19	23.32	23.21	24.0	0.0	
100	QPSK	270	0	23.06	23.42	23.11			
100	16QAM	1	1	22.17	22.23	22.14	24.0	0.0	
100	16QAM	1	1	22.06	22.18	22.04	24.0	0.0	
100	256QAM	1	1	21.28	21.38	21.32	22.5	1.5	
Channel				508200	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98	24.0	0.0	
90	QPSK	1	1	23.25	23.50	23.18	24.0	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2562.99	2649.98	24.0	0.0	
80	QPSK	1	1	23.24	23.47	23.21	24.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2562.99	2659.98	24.0	0.0	
70	QPSK	1	1	23.20	23.48	23.23	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2532	2562.99	2659.98	24.0	0.0	
80	QPSK	1	1	23.27	23.58	23.16	24.0	0.0	
Channel				504204	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.98	24.0	0.0	
50	QPSK	1	1	23.21	23.51	23.20	24.0	0.0	
Channel				503202	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2562.99	2670	24.0	0.0	
40	QPSK	1	1	23.17	23.45	23.13	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.98	24.0	0.0	
30	QPSK	1	1	23.19	23.53	23.13	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.98	24.0	0.0	
20	QPSK	1	1	23.18	23.54	23.21	24.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2562.99	2682.48	24.0	0.0	
15	QPSK	1	1	23.19	23.51	23.16	24.0	0.0	
Channel				2501.01	2562.99	2685	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2562.99	2685	24.0	0.0	
10	QPSK	1	1	23.27	23.48	23.13	24.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	526000			
Frequency (MHz)				2648.01	2662.99	2660			
100	PI2 BPSK	1	1	24.46	24.55	24.41			
100	PI2 BPSK	1	137	25.42	25.52	25.38	27.0	0.0	
100	PI2 BPSK	1	271	24.37	24.49	24.37			
100	PI2 BPSK	135	0	25.11	25.14	25.00	28.5	0.5	
100	PI2 BPSK	135	69	25.43	25.47	25.32	27.0	0.0	
100	PI2 BPSK	135	138	24.83	24.92	24.78	28.5	0.5	
100	PI2 BPSK	270	0	24.83	24.96	24.85			
100	QPSK	1	1	24.26	24.80	24.57			
100	QPSK	1	137	25.53	25.58	25.45	27.0	0.0	
100	QPSK	1	271	24.48	24.57	24.51			
100	QPSK	135	0	24.37	24.50	24.39	28.0	1.0	
100	QPSK	135	69	25.48	25.52	25.40	27.0	0.0	
100	QPSK	135	138	24.40	24.43	24.36	28.0	1.0	
100	QPSK	270	0	24.35	24.55	24.28			
100	16QAM	1	1	23.80	23.72	23.64	28.0	1.0	
100	16QAM	1	1	22.20	22.27	22.22	24.5	2.5	
100	256QAM	1	1	18.68	18.81	18.70	22.5	4.5	
Channel				508200	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98	27.0	0.0	
90	QPSK	1	1	25.48	25.51	25.31	27.0	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2562.99	2649.98	27.0	0.0	
80	QPSK	1	1	25.41	25.45	25.32	27.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2562.99	2659.98	27.0	0.0	
70	QPSK	1	1	25.39	25.48	25.38	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2532	2562.99	2659.98	27.0	0.0	
80	QPSK	1	1	25.46	25.50	25.33	27.0	0.0	
Channel				504204	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.98	27.0	0.0	
50	QPSK	1	1	25.44	25.47	25.37	27.0	0.0	
Channel				503202	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2562.99	2670	27.0	0.0	
40	QPSK	1	1	25.45	25.50	25.40	27.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.98	27.0	0.0	
30	QPSK	1	1	25.46	25.45	25.39	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.98	27.0	0.0	
20	QPSK	1	1	25.49	25.58	25.31	27.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2562.99	2682.48	27.0	0.0	
15	QPSK	1	1	25.39	25.50	25.41	27.0	0.0	
Channel				2501.01	2562.99	2685	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2562.99	2685	27.0	0.0	
10	QPSK	1	1	25.44	25.53	25.32	27.0	0.0	

Part270 n77 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	652000			
Frequency (MHz)				3740	3840	3900			
100	PI2 BPSK	1	1	19.59	19.83	19.48			
100	PI2 BPSK	1	137	20.43	20.45	20.39	21.0	0.0	
100	PI2 BPSK	1	271	19.34	19.47	19.44			
100	PI2 BPSK	135	0	20.26	20.41	20.31	21.0	0.0	
100	PI2 BPSK	135	69	20.38	20.48	20.34	21.0	0.0	
100	PI2 BPSK	135	138	20.23	20.38	20.27	21.0	0.0	
100	PI2 BPSK	270	0	20.25	20.44	20.26			
100	QPSK	1	1	19.74	19.70	19.52			
100	QPSK	1	137	20.53	20.54	20.29	21.0	0.0	
100	QPSK	1	271	19.40	19.49	19.34			
100	QPSK	135	0	20.30	20.44	20.38	21.0	0.0	
100	QPSK	135	69	20.39	20.50	20.40	21.0	0.0	
100	QPSK	135	138	20.36	20.37	20.28	21.0	0.0	
100	QPSK	270	0	20.37	20.47	20.32			
100	16QAM	1	1	19.33	19.44	19.38	21.0	0.0	
100	16QAM	1	1	19.62	19.75	19.66	21.0	0.0	
100	256QAM	1	1	18.78	18.82	18.73	19.5	1.5	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	21.0	0.0	
90	QPSK	1	1	20.43	20.48	20.38	21.0	0.0	
Channel				645334	650000	656566	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3840.02	21.0	0.0	
80	QPSK	1	1	20.49	20.47	20.16	21.0	0.0	
Channel				640000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3723.02	3840	3850.02	21.0	0.0	
70	QPSK	1	1	20.45	20.46	20.19	21.0	0.0	
Channel				645668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3723.02	3840	3850.02	21.0	0.0	
80	QPSK	1	1	20.46	20.40	20.16	21.0	0.0	
Channel				643334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	21.0	0.0	
50	QPSK	1	1	20.52	20.48	20.18	21.0	0.0	
Channel				640000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	21.0	0.0	</



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	19.90	19.95	19.81		
100	PI2 BPSK	1	137	20.70	20.81	20.75	21.0	0.0
100	PI2 BPSK	1	271	19.89	19.79	19.76		
100	PI2 BPSK	135	0	20.59	20.71	20.64	21.0	0.0
100	PI2 BPSK	135	69	20.70	20.76	20.66	21.0	0.0
100	PI2 BPSK	135	138	20.56	20.62	20.51	21.0	0.0
100	PI2 BPSK	270	0	20.58	20.70	20.60		
100	QPSK	1	1	19.97	20.02	19.79		
100	QPSK	1	137	20.81	20.87	20.65	21.0	0.0
100	QPSK	1	271	19.72	19.84	19.69		
100	QPSK	135	0	20.83	20.77	20.85	21.0	0.0
100	QPSK	135	69	20.75	20.82	20.76	21.0	0.0
100	QPSK	135	138	20.63	20.67	20.61	21.0	0.0
100	QPSK	270	0	20.89	20.74	20.56		
100	16QAM	1	1	19.70	19.79	19.86	21.0	0.0
100	16QAM	1	1	19.82	19.75	19.66	21.0	0.0
100	256QAM	1	1	18.31	18.43	18.30	19.5	1.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745.02	3840	3505.01	21.0	0.0
Channel								
Frequency (MHz)				649314	650000	650368	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3500.02	21.0	0.0
Channel								
Frequency (MHz)				649000	650000	650300	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.72	20.82	20.56	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.02	3840	3500.02	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	650368	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.71	20.82	20.51	21.0	0.0
Channel								
Frequency (MHz)				648000	650000	650300	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.74	20.80	20.83	21.0	0.0
Channel								
Frequency (MHz)				647668	650000	650334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.68	20.77	20.55	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	650368	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.71	20.80	20.53	21.0	0.0
Channel								
Frequency (MHz)				647000	650000	650300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.73	20.76	20.55	21.0	0.0
Channel								
Frequency (MHz)				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.67	20.79	20.53	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633334				
100	PI2 BPSK	1	1		19.16			
100	PI2 BPSK	1	137		20.23		21.0	0.0
100	PI2 BPSK	1	271		19.77			
100	PI2 BPSK	135	0		19.98		21.0	0.0
100	PI2 BPSK	135	69		20.15		21.0	0.0
100	PI2 BPSK	135	138		20.09		21.0	0.0
100	PI2 BPSK	270	0		20.17			
100	QPSK	1	1		19.23			
100	QPSK	1	137		20.30		21.0	0.0
100	QPSK	1	271		19.84			
100	QPSK	135	0		19.88		21.0	0.0
100	QPSK	135	69		20.22		21.0	0.0
100	QPSK	135	138		20.05		21.0	0.0
100	QPSK	270	0		20.16			
100	16QAM	1	1		19.01		21.0	0.0
100	16QAM	1	1		18.95		21.0	0.0
100	256QAM	1	1		18.59		19.5	1.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3495	3500.01	3505.02	21.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.11	20.20	20.02	21.0	0.0
Channel								
Frequency (MHz)				632334	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.18	20.27	20.06	21.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.09	20.21	20.03	21.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.18	20.23	20.02	21.0	0.0
Channel								
Frequency (MHz)				631334	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.13	20.17	20.02	21.0	0.0
Channel								
Frequency (MHz)				631000	633334	635000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.08	20.19	20.07	21.0	0.0
Channel								
Frequency (MHz)				630668	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.14	20.21	20.06	21.0	0.0
Channel								
Frequency (MHz)				630334	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.19	20.26	20.05	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.17	20.18	20.03	21.0	0.0
Channel								
Frequency (MHz)				629668	633334	636334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.14	20.16	20.10	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633334				
100	PI2 BPSK	1	1		19.81			
100	PI2 BPSK	1	137		20.59		21.0	0.0
100	PI2 BPSK	1	271		20.15			
100	PI2 BPSK	135	0		20.38		21.0	0.0
100	PI2 BPSK	135	69		20.58		21.0	0.0
100	PI2 BPSK	135	138		20.44		21.0	0.0
100	PI2 BPSK	270	0		20.83			
100	QPSK	1	1		19.57			
100	QPSK	1	137		20.66		21.0	0.0
100	QPSK	1	271		20.17			
100	QPSK	135	0		20.33		21.0	0.0
100	QPSK	135	69		20.60		21.0	0.0
100	QPSK	135	138		20.49		21.0	0.0
100	QPSK	270	0		20.53			
100	16QAM	1	1		19.42		21.0	0.0
100	16QAM	1	1		19.37		21.0	0.0
100	256QAM	1	1		18.98		19.5	1.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.37	20.45	20.28	21.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.37	20.47	20.32	21.0	0.0
Channel								
Frequency (MHz)				632334	633334	634000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.34	20.45	20.32	21.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.35	20.43	20.25	21.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.47	20.44	20.32	21.0	0.0
Channel								
Frequency (MHz)				631334	633334	635000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.44	20.47	20.26	21.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.45	20.49	20.38	21.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.47	20.54	20.37	21.0	0.0
Channel								
Frequency (MHz)				630334	633334	636168	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.39	20.53	20.33	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	636334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.35	20.47	20.36	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
3760				3760	3760	3760		
100	PI2 BPSK	1	1	19.43	19.43	19.43	21.0	0.0
100	PI2 BPSK	1	137	20.36	20.36	20.36	21.0	0.0
100	PI2 BPSK	1	271	19.30	19.30	19.30	21.0	0.0
100	PI2 BPSK	135	0	20.16	20.16	20.16	21.0	0.0
100	PI2 BPSK	135	69	20.36	20.36	20.36	21.0	0.0
100	PI2 BPSK	135	138	20.25	20.25	20.25	21.0	0.0
100	PI2 BPSK	270	0	20.26	20.26	20.26	21.0	0.0
100	QPSK	1	1	19.43	19.43	19.43	21.0	0.0
100	QPSK	1	137	20.36	20.36	20.36	21.0	0.0
100	QPSK	1	271	19.36	19.36	19.36	21.0	0.0
100	QPSK	135	0	20.28	20.28	20.28	21.0	0.0
100	QPSK	135	69	20.31	20.31	20.31	21.0	0.0
100	QPSK	135	138	20.24	20.24	20.24	21.0	0.0
100	QPSK	270	0	20.31	20.31	20.31	21.0	0.0
100	16QAM	1	1	19.25	19.25	19.25	21.0	0.0
100	16QAM	1	1	19.20	19.20	19.20	21.0	0.0
100	256QAM	1	1	18.82	18.82	18.82	19.5	1.5
Channel								
Frequency (MHz)				648668	650000	650334	Tune-up limit (dB)	MPR
3745.02				3760	3765.01	3765.01	21.0	0.0
Channel								
Frequency (MHz)				642534	650000	650668	Tune-up limit (dB)	MPR
3740.01				3760	3760.02	3760.02	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dB)	MPR
3745.02				3760	3765.01	3765.01	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	651000	Tune-up limit (dB)	MPR
3745.02				3760	3760.01	3760.01	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dB)	MPR
3725.01				3760	3775.02	3775.02	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	652334	Tune-up limit (dB)	MPR
3720.00				3760	3760.00	3760.00	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	652000	Tune-up limit (dB)	MPR
3720.00				3760	3760.00	3760.00	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dB)	MPR
3710.01				3760	3765.02	3765.02	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	652334	Tune-up limit (dB)	MPR
3710.01				3760	3765.01	3765.01	21.0	0.0
Channel								
Frequency (MHz)				647168	650000	652334	Tune-up limit (dB)	MPR
3707.62				3760	3762.51	3762.51	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	652000	Tune-up limit (dB)	MPR
3710.01				3760	3765.01	3765.01	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	651668	Tune-up limit (dB)	MPR
3710.01				3760	3765.02	3765.02	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000	650000	650000		
3760				3760	3760	3760		
100	PI2 BPSK	1	1	19.82	19.82	19.82	21.0	0.0
100	PI2 BPSK	1	137	20.68	20.68	20.68	21.0	0.0
100	PI2 BPSK	1	271	19.64	19.64	19.64	21.0	0.0
100	PI2 BPSK	135	0	20.58	20.58	20.58	21.0	0.0
100	PI2 BPSK	135	69	20.64	20.64	20.64	21.0	0.0
100	PI2 BPSK	135	138	20.49	20.49	20.49	21.0	0.0
100	PI2 BPSK	270	0	20.62	20.62	20.62	21.0	0.0
100	QPSK	1	1	19.76	19.76	19.76	21.0	0.0
100	QPSK	1	137	20.82	20.82	20.82	21.0	0.0
100	QPSK	1	271	19.71	19.71	19.71	21.0	0.0
100	QPSK	135	0	20.64	20.64	20.64	21.0	0.0
100	QPSK	135	69	20.66	20.66	20.66	21.0	0.0
100	QPSK	135	138	20.56	20.56	20.56	21.0	0.0
100	QPSK	270	0	20.59	20.59	20.59	21.0	0.0
100	16QAM	1	1	19.83	19.83	19.83	21.0	0.0
100	16QAM	1	1	19.80	19.80	19.80	21.0	0.0
100	256QAM	1	1	19.57	19.57	19.57	19.5	1.5
Channel								
Frequency (MHz)				648668	650000	650334	Tune-up limit (dB)	MPR
3745.02				3760	3765.01	3765.01	21.0	0.0
Channel								
Frequency (MHz)				642534	650000	650668	Tune-up limit (dB)	MPR
3740.01				3760	3760.02	3760.02	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dB)	MPR
3745.02				3760	3765.01	3765.01	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	651000	Tune-up limit (dB)	MPR
3745.02				3760	3760.01	3760.01	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dB)	MPR
3725.01				3760	3775.02	3775.02	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	652334	Tune-up limit (dB)	MPR
3720.00				3760	3760.00	3760.00	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	652000	Tune-up limit (dB)	MPR
3720.00				3760	3760.00	3760.00	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dB)	MPR
3710.01				3760	3765.02	3765.02	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	652334	Tune-up limit (dB)	MPR
3710.01				3760	3765.01	3765.01	21.0	0.0
Channel								
Frequency (MHz)				647168	650000	652334	Tune-up limit (dB)	MPR
3707.62				3760	3762.51	3762.51	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	652000	Tune-up limit (dB)	MPR
3710.01				3760	3765.01	3765.01	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	651668	Tune-up limit (dB)	MPR
3710.01				3760	3765.02	3765.02	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				630000	633334	636668		
3490				3490	3500.01	3500.02	21.0	0.0
100	PI2 BPSK	1	1	18.82	18.82	18.82	21.0	0.0
100	PI2 BPSK	1	137	20.03	20.03	20.03	21.0	0.0
100	PI2 BPSK	1	271	19.88	19.88	19.88	21.0	0.0
100	PI2 BPSK	135	0	19.43	19.43	19.43	21.0	0.0
100	PI2 BPSK	135	69	19.89	19.89	19.89	21.0	0.0
100	PI2 BPSK	135	138	19.83	19.83	19.83	21.0	0.0
100	PI2 BPSK	270	0	19.91	19.91	19.91	21.0	0.0
100	QPSK	1	1	18.87	18.87	18.87	21.0	0.0
100	QPSK	1	137	20.06	20.06	20.06	21.0	0.0
100	QPSK	1	271	19.73	19.73	19.73	21.0	0.0
100	QPSK	135	0	19.49	19.49	19.49	21.0	0.0
100	QPSK	135	69	19.54	19.54	19.54	21.0	0.0
100	QPSK	135	138	19.82	19.82	19.82	21.0	0.0
100	QPSK	270	0	19.89	19.89	19.89	21.0	0.0
100	16QAM	1	1	18.88	18.88	18.88	21.0	0.0
100	16QAM	1	1	18.82	18.82	18.82	21.0	0.0
100	256QAM	1	1	18.53	18.53	18.53	19.5	1.5
Channel								
Frequency (MHz)				630000	633334	636668	Tune-up limit (dB)	MPR
3490				3490	3500.01	3500.02	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	634000	Tune-up limit (dB)	MPR
3490.02				3500.01	3510	3510	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	634668	Tune-up limit (dB)	MPR
3490				3490	3500.01	3500.02	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	635000	Tune-up limit (dB)	MPR
3490.01				3500.01	3510.01	3510.01	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	635668	Tune-up limit (dB)	MPR
3490.01				3500.01	3510.01	3510.01	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	636000	Tune-up limit (dB)	MPR
3490.02				3500.01	3510.01	3510.01	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	636334	Tune-up limit (dB)	MPR
3490.01				3500.01	3510.01	3510.01	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	636668	Tune-up limit (dB)	MPR
3490.01				3500.01	3510.01	3510.01	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	637000	Tune-up limit (dB)	MPR
3490.01				3500.01	3510.01	3510.01	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	637334	Tune-up limit (dB)	MPR
3490.01				3500.01	3510.01	3510.01	21.0	0.0
Channel								
Frequency (MHz)				630000	633334	637668	Tune-up limit (dB)	MPR
3490.01				3500.01	3510.01	3510.01	21.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3609.01				
100	PI2 BPSK	1	1		19.16			
100	PI2 BPSK	1	137		20.36		21.0	0.0
100	PI2 BPSK	1	271		20.00			
100	PI2 BPSK	135	0		19.66		21.0	0.0
100	PI2 BPSK	135	69		20.14		21.0	0.0
100	PI2 BPSK	135	138		20.07		21.0	0.0
100	PI2 BPSK	270	0		20.24			
100	QPSK	1	1		19.22			
100	QPSK	1	137		20.41		21.0	0.0
100	QPSK	1	271		20.04			
100	QPSK	135	0		19.77		21.0	0.0
100	QPSK	135	69		20.16		21.0	0.0
100	QPSK	135	138		20.17		21.0	0.0
100	QPSK	270	0		20.20			
100	16QAM	1	1		20.00		21.0	0.0
100	64QAM	1	1		18.97		21.0	0.0
100	256QAM	1	1		18.34		19.5	1.5
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	20.13	20.16	20.11	21.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3469.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	20.22	20.09	20.08	21.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3483.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	20.17	20.19	20.05	21.0	0.0
Channel				632000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3490	3503.01	3505.02	(dBm)	(dB)
60	QPSK	1	1	20.15	20.16	20.08	21.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	20.18	20.16	20.07	21.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	20.12	20.18	20.07	21.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	20.13	20.21	20.00	21.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	20.13	20.21	20.02	21.0	0.0
Channel				630300	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3467.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	20.20	20.19	20.02	21.0	0.0
Channel				630334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3458.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	20.21	20.13	20.02	21.0	0.0



n2 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1865	1880	1895			
30	Pi/2 BPSK	1	1	17.57	17.66	17.62			
30	Pi/2 BPSK	1	80	18.32	18.22	18.27	19.5	0.0	
30	Pi/2 BPSK	1	158	17.55	17.71	17.58			
30	Pi/2 BPSK	80	0	17.86	17.61	17.59	19.5	0.0	
30	Pi/2 BPSK	80	40	18.38	18.41	18.40	19.5	0.0	
30	Pi/2 BPSK	80	80	17.51	17.71	17.57	19.5	0.0	
30	Pi/2 BPSK	160	0	17.84	17.74	17.86			
30	QPSK	1	1	18.35	18.51	18.28			
30	QPSK	1	80	17.85	17.63	17.71	19.5	0.0	
30	QPSK	1	158	17.70	17.70	17.66			
30	QPSK	80	0	17.51	17.61	17.55	19.5	0.0	
30	QPSK	80	40	18.23	18.32	18.24	19.5	0.0	
30	QPSK	80	80	17.83	17.80	17.71	19.5	0.0	
30	QPSK	160	0	17.65	17.75	17.61	19.5	0.0	
30	16QAM	1	1	17.63	17.62	17.58	19.5	0.0	
30	64QAM	1	1	17.57	17.72	17.62	19.5	0.0	
30	256QAM	1	1	17.24	17.30	17.26	18.5	1.0	
Channel									
Frequency (MHz)				1892.5	1880	1897.5			
25	QPSK	1	1	18.37	18.35	18.30	19.5	0.0	
Channel									
Frequency (MHz)				376000	376000	380000			
Channel									
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	18.30	18.25	18.25	19.5	0.0	
Channel									
Frequency (MHz)				371500	376000	380500			
Channel									
Frequency (MHz)				1857.5	1860	1862.5			
15	QPSK	1	1	18.37	18.25	18.24	19.5	0.0	
Channel									
Frequency (MHz)				371000	376000	381000			
Channel									
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	18.28	18.22	18.22	19.5	0.0	
Channel									
Frequency (MHz)				376500	376000	381000			
5	QPSK	1	1	18.29	18.27	18.23	19.5	0.0	

n5 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)					836.5				
25	Pi/2 BPSK	1	1		21.59				
25	Pi/2 BPSK	1	67		21.63		23.0	0.0	
25	Pi/2 BPSK	1	131		21.47				
25	Pi/2 BPSK	64	0		21.25		23.0	0.0	
25	Pi/2 BPSK	64	35		21.76		23.0	0.0	
25	Pi/2 BPSK	64	69		21.26		23.0	0.0	
25	Pi/2 BPSK	128	0		21.40		23.0	0.0	
25	QPSK	1	1		21.97				
25	QPSK	1	67		21.68		23.0	0.0	
25	QPSK	1	131		21.55				
25	QPSK	64	0		21.25		23.0	0.0	
25	QPSK	64	35		21.92		23.0	0.0	
25	QPSK	64	69		21.73		23.0	0.0	
25	QPSK	128	0		21.78		23.0	0.0	
25	16QAM	1	1		21.28		23.0	0.0	
25	64QAM	1	1		19.95		21.5	1.5	
25	256QAM	1	1		18.92		19.5	3.5	
Channel									
Frequency (MHz)				169000	167000	167000			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	21.76	21.77	21.70	0.0	0.0	
Channel									
Frequency (MHz)				169300	167300	169300			
Frequency (MHz)				841.5	838.5	841.5			
15	QPSK	1	1	21.68	21.78	21.64	23.0	0.0	
Channel									
Frequency (MHz)				169600	167300	169600			
Frequency (MHz)				839	838.3	844			
10	QPSK	1	1	21.79	21.72	21.64	23.0	0.0	
Channel									
Frequency (MHz)				169500	167300	169500			
Frequency (MHz)				836.5	836.5	836.5			
5	QPSK	1	1	21.72	21.72	21.63	23.0	0.0	

n12 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				708.5	707.5	708.5			
15	Pi/2 BPSK	1	1	22.83	22.92	22.86			
15	Pi/2 BPSK	1	40	22.78	22.86	22.75	24.0	0.0	
15	Pi/2 BPSK	1	77	22.76	22.80	22.68			
15	Pi/2 BPSK	36	0	22.82	22.88	22.58	23.5	0.5	
15	Pi/2 BPSK	36	22	22.78	22.88	22.77	24.0	0.0	
15	Pi/2 BPSK	36	43	22.47	22.82	22.55			
15	Pi/2 BPSK	75	0	22.60	22.66	22.58	23.5	0.5	
15	QPSK	1	1	22.90	22.97	22.86			
15	QPSK	1	40	22.87	22.89	22.80	24.0	0.0	
15	QPSK	1	77	22.73	22.84	22.71			
15	QPSK	36	0	22.15	22.19	22.12	23.0	1.0	
15	QPSK	36	22	22.83	22.92	22.87	24.0	0.0	
15	QPSK	36	43	22.10	22.14	22.00	23.0	1.0	
15	16QAM	1	1	21.72	21.82	21.76	23.0	1.0	
15	64QAM	1	1	20.20	20.31	20.20	21.5	2.5	
15	256QAM	1	1	18.78	18.93	18.80	19.5	4.5	
Channel									
Frequency (MHz)				140000	141500	142000			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.78	22.93	22.80	24.0	0.0	
Channel									
Frequency (MHz)				140300	141500	142000			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.80	22.88	22.75	24.0	0.0	



n14 Ant4									
BW (MHz)	Modulation	RB 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	PI2 BPSK	1	1	22.50	793				
10	PI2 BPSK	1	1	22.50	793		24.0	0.0	
10	PI2 BPSK	1	26	22.51					
10	PI2 BPSK	1	50	22.48					
10	PI2 BPSK	25	0	22.11			23.5	0.5	
10	PI2 BPSK	25	14	22.32			24.0	0.0	
10	PI2 BPSK	25	27	21.99			23.5	0.5	
10	PI2 BPSK	50	0	22.08					
10	QPSK	1	1	22.61			24.0	0.0	
10	QPSK	1	26	22.54					
10	QPSK	1	50	22.50					
10	QPSK	25	0	21.68			23.0	1.0	
10	QPSK	25	14	22.57			24.0	0.0	
10	QPSK	25	27	21.61			23.0	1.0	
10	QPSK	50	0	21.68					
10	16QAM	1	1	21.44			23.0	1.0	
10	64QAM	1	1	19.87			21.5	2.5	
10	256QAM	1	1	18.45			19.5	4.5	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.50	793	795.5			
				159100	159200	159100	Tune-up limit (dBm)	MPR (dB)	
				790.5	793	795.5			

n25 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	17.67	177.5	17.63			
45	PI2 BPSK	1	1	17.67	177.5	17.63	19.5	0.0	
45	PI2 BPSK	1	61	18.41	18.36	18.32			
45	PI2 BPSK	1	121	17.69	17.80	17.61			
45	PI2 BPSK	121	0	17.64	17.75	17.69	19.5	0.0	
45	PI2 BPSK	121	61	18.38	18.41	18.40			
45	PI2 BPSK	121	121	17.61	17.81	17.62			
45	PI2 BPSK	242	0	17.85	17.85	17.87	19.5	0.0	
45	QPSK	1	1	17.88	17.76	17.74			
45	QPSK	1	61	18.40	18.56	18.36	19.5	0.0	
45	QPSK	1	121	17.74	17.81	17.74			
45	QPSK	121	0	17.63	17.76	17.63	19.5	0.0	
45	QPSK	121	61	18.33	18.42	18.28	19.5	0.0	
45	QPSK	121	121	17.76	17.86	17.79			
45	QPSK	242	0	17.71	17.71	17.71	19.5	0.0	
45	16QAM	1	1	17.69	17.69	17.52	19.5	0.0	
45	64QAM	1	1	17.70	17.76	17.66	19.5	0.0	
45	256QAM	1	1	17.23	17.44	17.23	18.5	1.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.29	18.59	18.22	0.0	0.0	
				373500	376500	375000	Tune-up limit (dBm)	MPR (dB)	
				182.5	182.5	182.5			
35	QPSK	1	1	18.20	18.44	18.23	19.5	0.0	
				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
				1805	1822.5	1900			
30	QPSK	1	1	18.15	18.45	18.22	19.5	0.0	
				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
				1802.5	1802.5	1902.5			
25	QPSK	1	1	18.24	18.32	18.34	19.5	0.0	
				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
				1800	1802.5	1906			
20	QPSK	1	1	18.28	18.36	18.17	19.5	0.0	
				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
				1807.5	1807.5	1910.5			
15	QPSK	1	1	18.27	18.43	18.15	19.5	0.0	
				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
				1805	1822.5	1910			
10	QPSK	1	1	18.15	18.33	18.15	19.5	0.0	
				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
				1802.5	1802.5	1912.5			
5	QPSK	1	1	18.26	18.31	18.22	19.5	0.0	

n26 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.78	22.83	22.71			
20	PI2 BPSK	1	1	22.78	22.83	22.71	23.5	0.0	
20	PI2 BPSK	1	53	22.63	22.75	22.63			
20	PI2 BPSK	1	104	22.58	22.63	22.56			
20	PI2 BPSK	50	0	22.35	22.39	22.28	23.5	0.0	
20	PI2 BPSK	50	25	22.69	22.80	22.71			
20	PI2 BPSK	50	56	22.23	22.33	22.29			
20	PI2 BPSK	100	0	22.28	22.38	22.34	23.5	0.0	
20	QPSK	1	1	22.85	22.88	22.79			
20	QPSK	1	53	22.72	22.81	22.70	23.5	0.0	
20	QPSK	1	104	22.60	22.72	22.61			
20	QPSK	50	0	21.84	21.87	21.77	23.0	0.5	
20	QPSK	50	25	22.80	22.84	22.77			
20	QPSK	50	56	21.75	21.82	21.79	23.0	0.5	
20	QPSK	100	0	21.77	21.85	21.81			
20	16QAM	1	1	21.29	21.42	21.32	23.0	0.5	
20	64QAM	1	1	19.97	20.04	19.94	21.5	2.0	
20	256QAM	1	1	18.51	18.62	18.59	19.5	4.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.73	22.85	22.75	23.5	0.0	
				821.5	831.5	841.5	Tune-up limit (dBm)	MPR (dB)	
				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
				818	831.5	844			
10	QPSK	1	1	22.75	22.77	22.68	23.5	0.0	
				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
				816.5	831.5	846.5			
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.80	22.83	22.75	23.5	0.0	

21.34
21.82



n66 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel									
Frequency (MHz)				1732.5	1745	1757.5			
45	PI2 BPSK	1	1	17.74	17.91	17.77			
45	PI2 BPSK	1	61	18.49	18.54	18.50	19.5	0.0	
45	PI2 BPSK	1	121	17.71	17.89	17.77			
45	PI2 BPSK	121	0	17.74	17.79	17.77	19.5	0.0	
45	PI2 BPSK	121	61	18.52	18.57	18.41	19.5	0.0	
45	PI2 BPSK	121	121	17.85	17.94	17.74	19.5	0.0	
45	PI2 BPSK	242	0	17.96	18.02	17.94			
45	QPSK	1	1	17.83	17.89	17.82			
45	QPSK	1	61	18.54	18.61	18.43	19.5	0.0	
45	QPSK	1	121	17.79	17.88	17.74			
45	QPSK	121	0	17.59	17.61	17.68	19.5	0.0	
45	QPSK	121	61	18.46	18.49	18.47	19.5	0.0	
45	QPSK	121	121	17.67	17.78	17.52	19.5	0.0	
45	QPSK	242	0	17.52	17.71	17.54			
45	16QAM	1	1	17.78	17.81	17.69	19.5	0.0	
45	64QAM	1	1	17.75	17.84	17.65	19.5	0.0	
45	256QAM	1	1	17.25	17.40	17.29	18.5	1.0	
Channel									
Frequency (MHz)				1750	1745	1760			
40	QPSK	1	1	18.41	18.52	18.35	19.5	0.0	
Channel									
Frequency (MHz)				345500	349000	352000			
35	QPSK	1	1	18.41	18.52	18.35	19.5	0.0	
Channel									
Frequency (MHz)				345000	349000	353000			
30	QPSK	1	1	18.40	18.54	18.39	19.5	0.0	
Channel									
Frequency (MHz)				345000	349000	353000			
25	QPSK	1	1	18.41	18.53	18.34	19.5	0.0	
Channel									
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.40	18.56	18.35	19.5	0.0	
Channel									
Frequency (MHz)				345000	349000	354000			
15	QPSK	1	1	18.45	18.54	18.35	19.5	0.0	
Channel									
Frequency (MHz)				343000	349000	355000			
10	QPSK	1	1	18.45	18.50	18.41	19.5	0.0	
Channel									
Frequency (MHz)				342500	349000	355000			
5	QPSK	1	1	1712.5	1745	1777.5	19.5	0.0	

n70 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel									
Frequency (MHz)				1707.5	1725	1697.5			
15	PI2 BPSK	1	1	18.74	18.81	18.63			
15	PI2 BPSK	1	40	19.39	19.47	19.36	20.5	0.0	
15	PI2 BPSK	1	77	18.66	18.83	18.69			
15	PI2 BPSK	36	0	18.69	18.68	18.63	20.5	0.0	
15	PI2 BPSK	36	22	19.44	19.45	19.38	20.5	0.0	
15	PI2 BPSK	36	43	18.85	18.88	18.63	20.5	0.0	
15	PI2 BPSK	75	0	18.86	18.96	18.83			
15	QPSK	1	1	18.79	18.77	18.68			
15	QPSK	1	40	19.40	19.52	19.36	20.5	0.0	
15	QPSK	1	77	18.76	18.86	18.61			
15	QPSK	36	0	18.51	18.51	18.60	20.5	0.0	
15	QPSK	36	22	19.44	19.54	19.45	20.5	0.0	
15	QPSK	36	43	18.63	18.69	18.44	20.5	0.0	
15	QPSK	75	0	18.52	18.64	18.52			
15	16QAM	1	1	18.65	18.73	18.64	20.5	0.0	
15	64QAM	1	1	18.65	18.83	18.61	20.5	0.0	
15	256QAM	1	1	18.22	18.35	18.35	18.5	2.0	
Channel									
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	19.35	19.53	19.35	20.5	0.0	
Channel									
Frequency (MHz)				339500	340500	341500			
5	QPSK	1	1	19.42	19.55	19.25	20.5	0.0	

n71 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel									
Frequency (MHz)				136500	136100	137600			
20	PI2 BPSK	1	1	23.10	23.19	23.07			
20	PI2 BPSK	1	53	22.92	23.16	23.13	24.0	0.0	
20	PI2 BPSK	1	104	22.74	22.87	22.78			
20	PI2 BPSK	50	0	22.54	22.68	22.60	23.5	0.5	
20	PI2 BPSK	50	25	23.12	23.16	23.13	24.0	0.0	
20	PI2 BPSK	50	56	22.59	22.62	22.58	23.5	0.5	
20	PI2 BPSK	100	0	22.55	22.66	22.61			
20	QPSK	1	1	23.23	23.26	23.18			
20	QPSK	1	53	23.00	23.08	22.93	24.0	0.0	
20	QPSK	1	104	22.79	22.93	22.84			
20	QPSK	50	0	22.03	22.15	22.05	23.0	1.0	
20	QPSK	50	25	23.19	23.22	23.15	24.0	0.0	
20	QPSK	50	56	21.91	22.05	22.01	23.0	1.0	
20	QPSK	100	0	22.06	22.11	22.02			
20	16QAM	1	1	21.70	21.77	21.67	23.0	1.0	
20	64QAM	1	1	20.18	20.23	20.11	21.5	2.5	
20	256QAM	1	1	19.75	19.82	19.70	19.5	4.5	
Channel									
Frequency (MHz)				133100	133100	133100			
15	QPSK	1	1	23.09	23.13	23.11	24.0	0.0	
Channel									
Frequency (MHz)				136500	136100	136600			
10	QPSK	1	1	23.08	23.21	23.06	24.0	0.0	
Channel									
Frequency (MHz)				133100	136100	139100			
5	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	



n41 Ant4 PC2&PC3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	13.75	13.88	13.76		
100	PI/2 BPSK	1	137	15.18	15.22	15.07	15.5	0.0
100	PI/2 BPSK	1	271	14.31	14.39	14.32		
100	PI/2 BPSK	135	0	14.88	15.01	14.91	15.5	0.0
100	PI/2 BPSK	135	69	15.16	15.27	15.23	15.5	0.0
100	PI/2 BPSK	135	138	15.06	15.16	15.09	15.5	0.0
100	PI/2 BPSK	270	0	15.18	15.23	15.08		
100	QPSK	1	1	13.62	13.93	14.52		
100	QPSK	1	137	14.82	15.33	15.04	15.5	0.0
100	QPSK	1	271	14.29	14.43	14.31		
100	QPSK	135	0	15.02	15.09	15.04	15.5	0.0
100	QPSK	135	69	14.76	15.28	14.99	15.5	0.0
100	QPSK	135	138	15.10	15.15	15.02	15.5	0.0
100	QPSK	270	0	14.89	15.21	14.95		
100	16QAM	1	1	14.67	14.73	14.70	15.5	0.0
100	64QAM	1	1	14.61	14.67	14.63	15.5	0.0
100	256QAM	1	1	14.78	14.82	14.71	15.5	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.69	15.30	14.96	15.5	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.98		
80	QPSK	1	1	14.73	15.22	14.90	15.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.67	15.32	14.96	15.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.72	15.27	14.96	15.5	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.77	15.28	14.92	15.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.70	15.30	14.97	15.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.71	15.26	15.00	15.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.70	15.28	15.03	15.5	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	14.77	15.31	14.91	15.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	14.76	15.32	15.00	15.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3370	3624.99	3679.98		
40	PI2 BPSK	1	1	15.07	15.16	15.09		
40	PI2 BPSK	1	53	14.91	15.00	14.98	16.5	0.0
40	PI2 BPSK	1	104	15.08	15.22	14.88		
40	PI2 BPSK	50	0	14.95	15.07	14.90	16.5	0.0
40	PI2 BPSK	50	28	14.88	15.04	14.91	16.5	0.0
40	PI2 BPSK	50	56	14.81	15.22	15.13	16.5	0.0
40	PI2 BPSK	100	0	15.12	15.20	14.91		
40	QPSK	1	1	15.11	15.00	15.07		
40	QPSK	1	53	15.04	15.35	15.00	16.5	0.0
40	QPSK	1	104	14.95	15.16	14.98		
40	QPSK	50	0	14.93	15.19	14.98	16.5	0.0
40	QPSK	50	28	14.95	15.00	14.94	16.5	0.0
40	QPSK	50	56	14.79	15.16	15.06	16.5	0.0
40	QPSK	100	0	14.98	15.15	15.08		
40	16QAM	1	1	14.97	15.18	15.07	16.5	0.0
40	16QAM	1	1	14.98	15.04	14.87	16.5	0.0
40	256QAM	1	1	14.90	15.25	14.97	16.5	0.0
Channel				633234	641650	646300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3550.01	3624.99	3690		
20	QPSK	1	1	14.99	15.30	15.00	16.5	0.0
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3572.02	3624.99	3692.69		
15	QPSK	1	1	14.93	15.30	14.89	16.5	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3624.99	3694.98		
10	QPSK	1	1	14.99	15.33	14.98	16.5	0.0

Part270 n77 Ant5 PC2&PC3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	15.09	15.13	15.04		
100	PI2 BPSK	1	137	15.95	16.01	15.86	17.5	0.0
100	PI2 BPSK	1	271	14.99	15.01	14.98		
100	PI2 BPSK	135	0	15.86	15.92	15.90	17.5	0.0
100	PI2 BPSK	135	69	15.72	15.87	15.75	17.5	0.0
100	PI2 BPSK	135	138	15.75	15.81	15.72	17.5	0.0
100	PI2 BPSK	270	0	15.68	15.82	15.75		
100	QPSK	1	1	15.04	15.18	15.04		
100	QPSK	1	137	15.93	16.05	15.97	17.5	0.0
100	QPSK	1	271	14.98	15.02	14.90		
100	QPSK	135	0	15.94	15.94	15.81	17.5	0.0
100	QPSK	135	69	15.83	15.87	15.76	17.5	0.0
100	QPSK	135	138	15.85	15.76	15.75	17.5	0.0
100	QPSK	270	0	15.75	15.86	15.82		
100	16QAM	1	1	15.10	15.20	15.09	17.5	0.0
100	16QAM	1	1	15.00	15.13	15.12	17.5	0.0
100	256QAM	1	1	15.14	15.17	15.10	17.5	0.0
Channel				649668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	15.89	15.94	15.89	17.5	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.78	15.94	15.92	17.5	0.0
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	15.87	15.96	15.90	17.5	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.90	15.92	15.88	17.5	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	15.92	16.00	15.96	17.5	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.80	16.02	15.97	17.5	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	15.99	15.90	15.85	17.5	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.89	15.98	15.98	17.5	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.02	3840	3972.51		
15	QPSK	1	1	15.89	15.99	15.82	17.5	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	15.91	15.94	15.96	17.5	0.0

Part27Q n77 Ant5 PC2&PC3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63300	63334	63500.01		
100	PI2 BPSK	1	1			15.13		
100	PI2 BPSK	1	137			15.95	17.5	0.0
100	PI2 BPSK	1	271			15.03		
100	PI2 BPSK	135	0			15.85	17.5	0.0
100	PI2 BPSK	135	69			15.92	17.5	0.0
100	PI2 BPSK	135	138			15.82	17.5	0.0
100	PI2 BPSK	270	0			15.76		
100	QPSK	1	1			15.16		
100	QPSK	1	137			15.98	17.5	0.0
100	QPSK	1	271			14.99		
100	QPSK	135	0			15.89	17.5	0.0
100	QPSK	135	69			15.91	17.5	0.0
100	QPSK	135	138			15.80	17.5	0.0
100	QPSK	270	0			15.90		
100	16QAM	1	1			15.13	17.5	0.0
100	16QAM	1	1			15.06	17.5	0.0
100	256QAM	1	1			15.18	17.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	15.83	15.83	15.65	17.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.82	15.72	15.72	17.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	15.84	15.75	15.61	17.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.72	15.81	15.64	17.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	15.69	15.82	15.74	17.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.72	15.81	15.65	17.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	15.89	15.82	15.70	17.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	15.72	15.75	15.75	17.5	0.0
Channel				630200	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.02	3500.01	3542.02		
15	QPSK	1	1	15.89	15.78	15.72	17.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	15.71	15.75	15.63	17.5	0.0



Part270 n78 Ant5 PC2&PC3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	15.28	15.28	15.28			
100	PI/2 BPSK	1	137	16.01	16.01	16.01	17.5	0.0	
100	PI/2 BPSK	1	271	15.10	15.10	15.10			
100	PI/2 BPSK	135	0	15.91	15.91	15.91	17.5	0.0	
100	PI/2 BPSK	135	69	16.01	16.01	16.01	17.5	0.0	
100	PI/2 BPSK	135	138	15.89	15.89	15.89	17.5	0.0	
100	PI/2 BPSK	270	0	15.84	15.84	15.84			
100	QPSK	1	1	15.31	15.31	15.31	17.5	0.0	
100	QPSK	1	137	16.07	16.07	16.07			
100	QPSK	1	271	15.12	15.12	15.12			
100	QPSK	135	0	15.98	15.98	15.98	17.5	0.0	
100	QPSK	135	69	16.01	16.01	16.01	17.5	0.0	
100	QPSK	135	138	15.87	15.87	15.87	17.5	0.0	
100	QPSK	270	0	16.05	16.05	16.05			
100	16QAM	1	1	15.27	15.27	15.27	17.5	0.0	
100	64QAM	1	1	15.17	15.17	15.17	17.5	0.0	
100	256QAM	1	1	15.37	15.37	15.37	16.0	1.5	
Channel				649988	650000	650014	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	15.78	15.90	15.87	17.5	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)		
80	QPSK	1	1	15.72	15.84	15.82	17.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)		
70	QPSK	1	1	15.60	15.72	15.62	17.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3750.01	(dBm)		
60	QPSK	1	1	15.65	15.68	15.65	17.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)		
50	QPSK	1	1	15.55	15.67	15.60	17.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)		
40	QPSK	1	1	15.58	15.72	15.65	17.5	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3765.01	(dBm)		
30	QPSK	1	1	15.50	15.67	15.62	17.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3780.02	(dBm)		
20	QPSK	1	1	15.58	15.72	15.66	17.5	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.62	3750	3785.14	(dBm)		
15	QPSK	1	1	15.61	15.73	15.60	17.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)		
10	QPSK	1	1	15.57	15.72	15.68	17.5	0.0	

Part27Q n78 Ant5 PC2&PC3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				630000	633334	635001			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	15.23	15.23	15.23			
100	PI/2 BPSK	1	137	16.00	16.00	16.00	17.5	0.0	
100	PI/2 BPSK	1	271	15.13	15.13	15.13			
100	PI/2 BPSK	135	0	16.04	16.04	16.04	17.5	0.0	
100	PI/2 BPSK	135	69	16.11	16.11	16.11	17.5	0.0	
100	PI/2 BPSK	135	138	15.90	15.90	15.90	17.5	0.0	
100	PI/2 BPSK	270	0	15.90	15.90	15.90			
100	QPSK	1	1	15.29	15.29	15.29	17.5	0.0	
100	QPSK	1	137	16.16	16.16	16.16			
100	QPSK	1	271	15.16	15.16	15.16			
100	QPSK	135	0	15.98	15.98	15.98	17.5	0.0	
100	QPSK	135	69	16.01	16.01	16.01	17.5	0.0	
100	QPSK	135	138	15.82	15.82	15.82	17.5	0.0	
100	QPSK	270	0	16.08	16.08	16.08			
100	16QAM	1	1	15.28	15.28	15.28	17.5	0.0	
100	64QAM	1	1	15.16	15.16	15.16	17.5	0.0	
100	256QAM	1	1	15.31	15.31	15.31	16.0	1.5	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)		
90	QPSK	1	1	15.61	15.62	15.68	17.5	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)		
80	QPSK	1	1	15.50	15.65	15.72	17.5	0.0	
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)		
70	QPSK	1	1	15.60	15.66	15.67	17.5	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)		
60	QPSK	1	1	15.58	15.65	15.69	17.5	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)		
50	QPSK	1	1	15.55	15.64	15.62	17.5	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)		
40	QPSK	1	1	15.63	15.70	15.64	17.5	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)		
30	QPSK	1	1	15.62	15.65	15.69	17.5	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)		
20	QPSK	1	1	15.59	15.67	15.69	17.5	0.0	
Channel				630500	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.65	3500.01	3542.92	(dBm)		
15	QPSK	1	1	15.59	15.68	15.71	17.5	0.0	
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)		
10	QPSK	1	1	15.59	15.70	15.70	17.5	0.0	



n41 Ant7 PC2&PC3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	18.14	18.21	18.07		
100	PI/2 BPSK	1	137	19.29	19.37	19.27	20.5	0.0
100	PI/2 BPSK	1	271	18.31	18.35	18.28		
100	PI/2 BPSK	135	0	19.19	19.23	19.13	20.5	0.0
100	PI/2 BPSK	135	69	19.18	19.30	19.23	20.5	0.0
100	PI/2 BPSK	135	138	19.12	19.18	19.05	20.5	0.0
100	PI/2 BPSK	270	0	19.16	19.24	19.12		
100	QPSK	1	1	17.61	18.25	18.17		
100	QPSK	1	137	19.14	19.43	19.27	20.5	0.0
100	QPSK	1	271	18.33	18.42	18.35		
100	QPSK	135	0	19.24	19.30	19.23	20.5	0.0
100	QPSK	135	69	19.06	19.35	19.23	20.5	0.0
100	QPSK	135	138	19.16	19.21	19.06	20.5	0.0
100	QPSK	270	0	19.01	19.28	19.14		
100	16QAM	1	1	19.07	19.14	19.02	20.5	0.0
100	64QAM	1	1	19.02	19.07	18.98	20.5	0.0
100	256QAM	1	1	19.19	19.23	19.20	20.5	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.97	19.31	19.17	20.5	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.98		
80	QPSK	1	1	19.02	19.27	19.13	20.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	18.98	19.24	19.08	20.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	18.98	19.25	19.12	20.5	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.90	19.29	19.15	20.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.98	19.20	19.08	20.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.90	19.33	19.11	20.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.92	19.21	19.15	20.5	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	18.89	19.19	19.11	20.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.02	19.29	19.11	20.5	0.0



Part270 n77 Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	20.68	20.77	20.73		
100	PI2 BPSK	1	137	21.84	21.87	21.77	23.0	0.0
100	PI2 BPSK	1	271	20.77	20.83	20.76		
100	PI2 BPSK	135	0	21.46	21.56	21.46	23.0	0.0
100	PI2 BPSK	135	69	21.59	21.70	21.66	23.0	0.0
100	PI2 BPSK	135	138	21.43	21.58	21.47	23.0	0.0
100	PI2 BPSK	270	0	21.60	21.63	21.52	23.0	0.0
100	QPSK	1	1	20.92	20.83	20.76		
100	QPSK	1	137	21.83	21.81	21.80	23.0	0.0
100	QPSK	1	271	20.93	20.90	20.87		
100	QPSK	135	0	21.50	21.63	21.57	22.0	1.0
100	QPSK	135	69	21.79	21.88	21.74	23.0	0.0
100	QPSK	135	138	21.57	21.62	21.50	22.0	1.0
100	QPSK	270	0	21.71	21.77	21.65	23.0	0.0
100	16QAM	1	1	20.99	20.63	20.56	23.0	0.0
100	64QAM	1	1	20.52	20.56	20.49	23.0	0.0
100	256QAM	1	1	19.58	19.08	18.57	21.5	1.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.77	21.76	21.67	23.0	0.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
80	QPSK	1	1	21.77	21.87	21.67	23.0	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit	MPR
70	QPSK	1	1	21.80	21.80	21.85	23.0	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit	MPR
60	QPSK	1	1	21.80	21.85	21.67	23.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.79	21.78	21.76	23.0	0.0
Channel								
Frequency (MHz)				648000	650000	650000	Tune-up limit	MPR
40	QPSK	1	1	21.73	21.76	21.68	23.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit	MPR
30	QPSK	1	1	3715.02	3840	3955.01		
Channel								
Frequency (MHz)				647114	650000	656668	Tune-up limit	MPR
20	QPSK	1	1	21.79	21.81	21.66	23.0	0.0
Channel								
Frequency (MHz)				647168	650000	654334	Tune-up limit	MPR
15	QPSK	1	1	21.78	21.86	21.66	23.0	0.0
Channel								
Frequency (MHz)				647000	650000	650000	Tune-up limit	MPR
10	QPSK	1	1	21.77	21.80	21.71	23.0	0.0

Part270 n77 Ant8 PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	23.00	23.07	22.94		
100	PI2 BPSK	1	137	23.91	23.95	23.84	24.5	0.0
100	PI2 BPSK	1	271	22.90	23.02	22.98		
100	PI2 BPSK	135	0	23.19	23.27	23.20	24.0	0.5
100	PI2 BPSK	135	69	23.80	23.92	23.79	24.5	0.0
100	PI2 BPSK	135	138	23.15	23.20	23.09	24.0	0.5
100	PI2 BPSK	270	0	23.20	23.31	23.18		
100	QPSK	1	1	23.04	23.13	23.01		
100	QPSK	1	137	24.00	24.03	23.96	24.5	0.0
100	QPSK	1	271	23.00	23.08	23.01		
100	QPSK	135	0	22.72	22.85	22.74	23.5	1.0
100	QPSK	135	69	23.91	23.97	23.84	24.5	0.0
100	QPSK	135	138	22.70	22.78	22.64	23.5	1.0
100	QPSK	270	0	22.82	22.86	22.80	24.0	0.0
100	16QAM	1	1	22.28	22.34	22.25	23.5	1.0
100	64QAM	1	1	20.88	20.91	20.82	22.0	2.5
100	256QAM	1	1	18.98	17.02	16.91	23.0	4.5
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit	MPR
90	QPSK	1	1	23.88	23.92	23.87	24.5	0.0
Channel								
Frequency (MHz)				648334	650000	652668	Tune-up limit	MPR
80	QPSK	1	1	23.88	23.96	23.82	24.5	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit	MPR
70	QPSK	1	1	23.88	23.89	23.85	24.5	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit	MPR
60	QPSK	1	1	23.94	23.88	23.89	24.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	23.90	23.97	23.88	24.5	0.0
Channel								
Frequency (MHz)				648000	650000	650000	Tune-up limit	MPR
40	QPSK	1	1	23.96	23.98	23.87	24.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit	MPR
30	QPSK	1	1	3715.02	3840	3955.01		
Channel								
Frequency (MHz)				647114	650000	656668	Tune-up limit	MPR
20	QPSK	1	1	23.93	23.99	23.91	24.5	0.0
Channel								
Frequency (MHz)				647168	650000	654334	Tune-up limit	MPR
15	QPSK	1	1	23.86	23.90	23.82	24.5	0.0
Channel								
Frequency (MHz)				647000	650000	650000	Tune-up limit	MPR
10	QPSK	1	1	23.93	23.95	23.86	24.5	0.0

Part270Q n77 Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)						3500.01		
100	PI2 BPSK	1	1			20.99		
100	PI2 BPSK	1	137			21.92	23.0	0.0
100	PI2 BPSK	1	271			20.87		
100	PI2 BPSK	135	0			21.85	23.0	0.0
100	PI2 BPSK	135	69			21.87	23.0	0.0
100	PI2 BPSK	135	138			21.77	23.0	0.0
100	PI2 BPSK	270	0			21.82		
100	QPSK	1	1			21.05		
100	QPSK	1	137			21.94	23.0	0.0
100	QPSK	1	271			20.94		
100	QPSK	135	0			21.88	23.0	0.0
100	QPSK	135	69			21.84	23.0	0.0
100	QPSK	135	138			21.72	23.0	0.0
100	QPSK	270	0			21.76	23.0	0.0
100	16QAM	1	1			20.93	23.0	0.0
100	64QAM	1	1			20.85	23.0	0.0
100	256QAM	1	1			19.87	21.5	1.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit	MPR
90	QPSK	1	1	21.80	21.86	21.80	23.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit	MPR
80	QPSK	1	1	21.84	21.90	21.79	23.0	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit	MPR
70	QPSK	1	1	21.83	21.93	21.80	23.0	0.0
Channel								
Frequency (MHz)				632000	633334	633668	Tune-up limit	MPR
60	QPSK	1	1	21.80	21.88	21.83	23.0	0.0
Channel								
Frequency (MHz)				631668	633334	633000	Tune-up limit	MPR
50	QPSK	1	1	21.84	21.92	21.84	23.0	0.0
Channel								
Frequency (MHz)				631334	633334	633534	Tune-up limit	MPR
40	QPSK	1	1	21.81	21.91	21.83	23.0	0.0
Channel								
Frequency (MHz)				631000	633334	633668	Tune-up limit	MPR
30	QPSK	1	1	3665	3500.01	3535.02		
Channel								
Frequency (MHz)				630668	633334	633000	Tune-up limit	MPR
20	QPSK	1	1	21.92	21.87	21.87	23.0	0.0
Channel								
Frequency (MHz)				630300	633334	633168	Tune-up limit	MPR
15	QPSK	1	1	21.81	21.94	21.76	23.0	0.0
Channel								
Frequency (MHz)				630334	633334	633534	Tune-up limit	MPR
10	QPSK	1	1	21.85	21.84	21.79	23.0	0.0



Part27Q n77 Ant8 PC2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.18	3500.01					
100	PI2 BPSK	1	137	24.12			24.5	0.0		
100	PI2 BPSK	1	271	23.10						
100	PI2 BPSK	135	0	23.49			24.0	0.5		
100	PI2 BPSK	135	69	24.11			24.5	0.0		
100	PI2 BPSK	135	138	23.40			24.0	0.5		
100	PI2 BPSK	270	0	23.48						
100	QPSK	1	1	23.25						
100	QPSK	1	137	24.16			24.5	0.0		
100	QPSK	1	271	23.16						
100	QPSK	135	0	23.01			23.5	1.0		
100	QPSK	135	69	24.13			24.5	0.0		
100	QPSK	135	138	22.58			23.5	1.0		
100	QPSK	270	0	23.00						
100	16QAM	1	1	22.53			23.5	1.0		
100	16QAM	1	1	20.89			22.0	2.5		
100	25QAM	1	1	16.84			20.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	24.10	24.07	24.01	24.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.03	24.13	24.01	24.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	24.03	24.11	23.87	24.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.03	24.09	24.07	24.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.10	24.12	24.00	24.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.05	24.05	24.03	24.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.01	24.05	24.00	24.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.06	24.09	24.00	24.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	24.12	24.05	24.01	24.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.01	24.14	23.95	24.5	0.0		

Part27O n78 Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.88	3750	3750				
100	PI2 BPSK	1	137	21.81			23.0	0.0		
100	PI2 BPSK	1	271	20.83						
100	PI2 BPSK	135	0	21.87			23.0	0.0		
100	PI2 BPSK	135	69	21.78			23.0	0.0		
100	PI2 BPSK	135	138	21.83			23.0	0.0		
100	PI2 BPSK	270	0	21.65						
100	QPSK	1	1	20.95						
100	QPSK	1	137	21.89			23.0	0.0		
100	QPSK	1	271	20.86						
100	QPSK	135	0	21.74			23.0	0.0		
100	QPSK	135	69	21.85			23.0	0.0		
100	QPSK	135	138	21.67			23.0	0.0		
100	QPSK	270	0	21.72						
100	16QAM	1	1	20.76			23.0	0.0		
100	16QAM	1	1	20.71			23.0	0.0		
100	25QAM	1	1	19.77			21.5	1.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.76	21.82	21.81	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.75	21.86	21.76	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.69	21.74	21.60	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.66	21.80	21.75	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.78	21.77	21.76	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.67	21.75	21.73	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.69	21.70	21.73	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.73	21.81	21.71	23.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.72	21.82	21.72	23.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.75	21.80	21.70	23.0	0.0		

Part27O n78 Ant8 PC2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.23	3750	3750				
100	PI2 BPSK	1	137	24.11			24.5	0.0		
100	PI2 BPSK	1	271	23.15						
100	PI2 BPSK	135	0	23.35			24.0	0.5		
100	PI2 BPSK	135	69	24.06			24.5	0.0		
100	PI2 BPSK	135	138	23.32			24.0	0.5		
100	PI2 BPSK	270	0	23.38						
100	QPSK	1	1	23.28						
100	QPSK	1	137	24.16			24.5	0.0		
100	QPSK	1	271	23.18						
100	QPSK	135	0	22.94			23.5	1.0		
100	QPSK	135	69	24.11			24.5	0.0		
100	QPSK	135	138	22.58			23.5	1.0		
100	QPSK	270	0	23.05						
100	16QAM	1	1	22.49			23.5	1.0		
100	16QAM	1	1	21.02			22.0	2.5		
100	25QAM	1	1	16.84			20.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	24.10	24.07	24.01	24.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.02	24.06	24.00	24.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	24.04	24.09	23.99	24.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.04	24.08	24.02	24.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.09	24.12	24.06	24.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.08	24.03	24.01	24.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.03	24.03	24.00	24.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.05	24.01	23.97	24.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	24.08	24.07	24.03	24.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.00	24.04	24.05	24.5	0.0		



Part27Q n78 Ant8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	21.66	21.97	21.97			
100	PI2 BPSK	1	137	21.97	21.97	21.97	23.0	0.0	
100	PI2 BPSK	1	271	21.01	21.01	21.01			
100	PI2 BPSK	135	0	21.80	21.80	21.80	23.0	0.0	
100	PI2 BPSK	135	69	21.86	21.86	21.86	23.0	0.0	
100	PI2 BPSK	135	138	21.69	21.69	21.69	23.0	0.0	
100	PI2 BPSK	270	0	21.74	21.74	21.74			
100	QPSK	1	1	21.11	21.11	21.11			
100	QPSK	1	137	21.97	21.97	21.97	23.0	0.0	
100	QPSK	1	271	21.05	21.05	21.05			
100	QPSK	135	0	21.83	21.83	21.83	23.0	0.0	
100	QPSK	135	69	21.92	21.92	21.92	23.0	0.0	
100	QPSK	135	138	21.75	21.75	21.75	23.0	0.0	
100	QPSK	270	0	21.81	21.81	21.81			
100	16QAM	1	1	20.84	20.84	20.84	23.0	0.0	
100	64QAM	1	1	20.78	20.78	20.78	23.0	0.0	
100	256QAM	1	1	18.92	18.92	18.92	21.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.82	21.91	21.86	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.88	21.85	21.78	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.82	21.80	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.84	21.82	21.84	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.84	21.93	21.78	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.81	21.91	21.86	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.80	21.84	21.80	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.88	21.86	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.85	21.90	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.91	21.86	21.75	23.0	0.0	

Part27Q n78 Ant8 PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.27	23.27	23.27			
100	PI2 BPSK	1	137	24.11	24.11	24.11	24.5	0.0	
100	PI2 BPSK	1	271	23.25	23.25	23.25			
100	PI2 BPSK	135	0	23.50	23.50	23.50	24.0	0.5	
100	PI2 BPSK	135	69	24.46	24.46	24.46	24.5	0.0	
100	PI2 BPSK	135	138	23.48	23.48	23.48	24.0	0.5	
100	PI2 BPSK	270	0	23.54	23.54	23.54			
100	QPSK	1	1	23.32	23.32	23.32			
100	QPSK	1	137	24.16	24.16	24.16	24.5	0.0	
100	QPSK	1	271	23.27	23.27	23.27			
100	QPSK	135	0	23.19	23.19	23.19	23.5	1.0	
100	QPSK	135	69	24.12	24.12	24.12	24.5	0.0	
100	QPSK	135	138	22.80	22.80	22.80	23.5	1.0	
100	QPSK	270	0	23.05	23.05	23.05			
100	16QAM	1	1	22.49	22.49	22.49	23.0	1.0	
100	64QAM	1	1	20.97	20.97	20.97	22.0	2.5	
100	256QAM	1	1	18.89	18.89	18.89	20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.04	24.08	23.99	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.86	23.88	23.82	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.92	23.93	23.89	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.87	23.96	23.84	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.90	23.93	23.86	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.87	23.94	23.81	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.87	23.89	23.87	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.84	23.97	23.85	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.86	23.95	23.81	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.91	23.85	23.84	24.5	0.0	



ECI3 Power

n2 Ant0 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3793000	376000	379000			
Frequency (MHz)				1590	1591	1574			
30	Pi/2 BPSK	1	1	15.93	15.91	15.74			
30	Pi/2 BPSK	1	80	15.05	15.19	15.10	17.0	0.0	
30	Pi/2 BPSK	1	158	15.85	15.02	15.85			
30	Pi/2 BPSK	80	0	15.86	15.89	15.80	17.0	0.0	
30	Pi/2 BPSK	80	40	16.02	16.15	16.06	17.0	0.0	
30	Pi/2 BPSK	80	80	15.85	15.02	15.89	17.0	0.0	
30	Pi/2 BPSK	160	0	15.84	15.92	15.70			
30	QPSK	1	1	16.02	16.22	16.05			
30	QPSK	1	80	15.93	16.01	15.93	17.0	0.0	
30	QPSK	1	158	15.79	15.86	15.80			
30	QPSK	80	0	16.04	15.89	16.12	17.0	0.0	
30	QPSK	80	40	15.98	16.20	15.88	17.0	0.0	
30	QPSK	80	80	16.80	16.83	16.81	17.0	0.0	
30	QPSK	160	0	16.02	16.18	16.16	17.0	0.0	
30	16QAM	1	1	15.85	15.98	15.86	17.0	0.0	
30	16QAM	1	1	15.95	15.97	15.92	17.0	0.0	
30	256QAM	1	1	15.96	15.97	15.93	17.0	0.0	
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1897.5			
25	QPSK	1	1	16.04	16.20	16.14	17.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1880	1880	1900			
20	QPSK	1	1	16.02	16.13	16.03	17.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1882.5			
15	QPSK	1	1	15.85	15.96	15.91	17.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1885	1880	1905			
10	QPSK	1	1	15.94	15.94	15.92	17.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1907.5			
5	QPSK	1	1	15.96	16.00	15.92	17.0	0.0	

n5 Ant0 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				167300	167300	167300			
Frequency (MHz)				836.5					
25	Pi/2 BPSK	1	1	22.10					
25	Pi/2 BPSK	1	67		22.33		23.5	0.0	
25	Pi/2 BPSK	1	131		21.96				
25	Pi/2 BPSK	64	0		22.10		23.5	0.0	
25	Pi/2 BPSK	64	35		22.45		23.5	0.0	
25	Pi/2 BPSK	64	69		22.04		23.5	0.0	
25	Pi/2 BPSK	128	0		22.00				
25	QPSK	1	1		22.46				
25	QPSK	1	67		22.02		23.5	0.0	
25	QPSK	1	131		22.06				
25	QPSK	64	0		21.74		23.0	0.5	
25	QPSK	64	35		22.07		23.5	0.0	
25	QPSK	64	69		21.76		23.0	0.5	
25	QPSK	128	0		21.83		23.0	0.5	
25	16QAM	1	1		21.32		23.0	0.5	
25	16QAM	1	1		20.00		21.5	2.0	
25	256QAM	1	1		18.53		19.5	4.0	
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				834	836.5	838			
20	QPSK	1	1	22.04	22.11	22.00	0.0	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	835.5	841.5			
15	QPSK	1	1	22.03	22.09	22.13	23.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	835.5	844			
10	QPSK	1	1	22.11	22.08	22.06	23.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	835.5	846.5			
5	QPSK	1	1	22.10	22.09	22.06	23.5	0.0	

n12 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	707.5			
15	Pi/2 BPSK	1	1	22.84	22.98	22.75			
15	Pi/2 BPSK	1	40	22.75	22.83	22.71	24.0	0.0	
15	Pi/2 BPSK	1	77	22.73	22.80	22.71			
15	Pi/2 BPSK	36	0	22.95	22.85	22.92	23.5	0.5	
15	Pi/2 BPSK	36	22	22.69	22.81	22.70	24.0	0.0	
15	Pi/2 BPSK	36	43	22.54	22.61	22.50	23.5	0.5	
15	Pi/2 BPSK	72	0	22.88	22.64	22.61			
15	QPSK	1	1	22.87	22.92	22.81			
15	QPSK	1	40	22.83	22.87	22.77	24.0	0.0	
15	QPSK	1	77	22.72	22.81	22.66			
15	QPSK	36	0	22.04	22.12	22.08	23.0	1.0	
15	QPSK	36	22	22.82	22.85	22.77	24.0	0.0	
15	QPSK	36	43	22.02	22.07	21.94	23.0	1.0	
15	QPSK	72	0	22.05	22.13	22.00			
15	16QAM	1	1	21.72	21.76	21.69	23.0	1.0	
15	16QAM	1	1	20.11	20.22	20.18	21.5	2.5	
15	256QAM	1	1	18.70	18.83	18.77	19.5	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.82	22.85	22.72	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.72	22.80	22.67	24.0	0.0	



n14 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.57	22.57	22.57	24.0	0.0	
10	PI2 BPSK	1	25	22.53	22.53	22.53	24.0	0.0	
10	PI2 BPSK	1	50	22.50	22.50	22.50	24.0	0.0	
10	PI2 BPSK	25	0	22.12	22.12	22.12	23.5	0.5	
10	PI2 BPSK	25	14	22.26	22.26	22.26	24.0	0.0	
10	PI2 BPSK	25	27	22.07	22.07	22.07	23.5	0.5	
10	PI2 BPSK	50	0	22.14	22.14	22.14	23.5	0.5	
10	QPSK	1	1	22.64	22.64	22.64	24.0	0.0	
10	QPSK	1	26	22.59	22.59	22.59	24.0	0.0	
10	QPSK	1	50	22.55	22.55	22.55	23.0	1.0	
10	QPSK	25	0	21.73	21.73	21.73	23.0	1.0	
10	QPSK	25	14	22.60	22.60	22.60	24.0	0.0	
10	QPSK	25	27	21.86	21.86	21.86	23.0	1.0	
10	QPSK	50	0	21.78	21.78	21.78	23.0	1.0	
10	16QAM	1	1	21.36	21.36	21.36	23.0	1.0	
10	64QAM	1	1	19.91	19.91	19.91	21.5	2.5	
10	256QAM	1	1	18.48	18.48	18.48	19.5	4.5	
Channel									
Frequency (MHz)				159.100	159.000	159.100	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.53	22.52	22.49	24.0	0.0	

n25 Ant0 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	15.17	15.25	15.32	17.0	0.0	
45	PI2 BPSK	1	61	15.97	16.07	15.95	17.0	0.0	
45	PI2 BPSK	1	121	15.36	15.51	15.26	17.0	0.0	
45	PI2 BPSK	121	0	15.18	15.41	15.26	17.0	0.0	
45	PI2 BPSK	121	61	16.02	16.14	15.95	17.0	0.0	
45	PI2 BPSK	121	121	15.43	15.48	15.35	17.0	0.0	
45	PI2 BPSK	242	0	15.19	15.36	15.28	17.0	0.0	
45	QPSK	1	1	15.29	15.44	15.32	17.0	0.0	
45	QPSK	1	61	16.04	16.21	16.03	17.0	0.0	
45	QPSK	1	121	15.30	15.44	15.27	17.0	0.0	
45	QPSK	121	0	16.03	16.10	15.98	17.0	0.0	
45	QPSK	121	61	15.36	16.16	15.36	17.0	0.0	
45	QPSK	121	121	15.16	15.31	15.29	17.0	0.0	
45	QPSK	242	0	15.96	16.04	15.98	17.0	0.0	
45	16QAM	1	1	15.38	15.50	15.38	17.0	0.0	
45	64QAM	1	1	15.42	15.45	15.35	17.0	0.0	
45	256QAM	1	1	15.37	15.42	15.32	17.0	0.0	
Channel									
Frequency (MHz)				374000	376500	379000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.36	15.51	15.26	0.0	0.0	
Channel									
Frequency (MHz)				372500	376500	379500	Tune-up limit (dBm)	MPR (dB)	
35	QPSK	1	1	15.32	15.48	15.28	17.0	0.0	
Channel									
Frequency (MHz)				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.40	15.49	15.32	17.0	0.0	
Channel									
Frequency (MHz)				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	15.24	15.49	15.24	17.0	0.0	
Channel									
Frequency (MHz)				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.42	15.42	15.32	17.0	0.0	
Channel									
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.32	15.50	15.33	17.0	0.0	
Channel									
Frequency (MHz)				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.42	15.40	15.25	17.0	0.0	
Channel									
Frequency (MHz)				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	15.39	15.47	15.38	17.0	0.0	

n26 Ant0 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24	24.50	24.57	23.0	0.0	
20	PI2 BPSK	1	53	21.74	21.71	21.68	23.0	0.0	
20	PI2 BPSK	1	104	21.58	21.72	21.66	23.0	0.0	
20	PI2 BPSK	50	0	21.77	21.87	21.83	23.0	0.0	
20	PI2 BPSK	50	28	21.67	21.80	21.83	23.0	0.0	
20	PI2 BPSK	50	56	21.60	21.73	21.54	23.0	0.0	
20	PI2 BPSK	100	0	21.86	21.86	21.83	23.0	0.0	
20	QPSK	1	1	21.74	21.92	21.81	23.0	0.0	
20	QPSK	1	53	21.61	21.67	21.63	23.0	0.0	
20	QPSK	1	104	21.82	21.86	21.82	23.0	0.0	
20	QPSK	50	0	21.69	21.81	21.59	23.0	0.0	
20	QPSK	50	28	21.58	21.80	21.62	23.0	0.0	
20	QPSK	50	56	21.83	21.62	21.76	23.0	0.0	
20	QPSK	100	0	21.73	21.75	21.63	23.0	0.0	
20	16QAM	1	1	21.67	21.69	21.83	23.0	0.0	
20	64QAM	1	1	19.95	20.06	19.99	21.5	1.5	
20	256QAM	1	1	18.51	18.62	18.57	18.5	3.5	
Channel									
Frequency (MHz)				821.5	831.5	841.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	21.66	21.73	21.69	23.0	0.0	
Channel									
Frequency (MHz)				163500	166500	169500	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.70	21.77	21.69	23.0	0.0	
Channel									
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	21.68	21.78	21.60	23.0	0.0	

16.04 16.24 16.03



n66 Ant0 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	351000			
Frequency (MHz)				1722.5	1745	1767.5			
45	PI2 BPSK	1	1	17.17	17.24	17.25			
45	PI2 BPSK	1	61	17.82	17.93	17.87	19.0	0.0	
45	PI2 BPSK	1	121	17.17	17.21	17.21			
45	PI2 BPSK	121	0	17.25	17.30	17.25	19.0	0.0	
45	PI2 BPSK	121	61	17.83	17.88	17.87	19.0	0.0	
45	PI2 BPSK	121	121	17.15	17.21	17.13	19.0	0.0	
45	PI2 BPSK	242	0	17.36	17.30	17.25			
45	QPSK	1	1	17.13	17.20	17.13	19.0	0.0	
45	QPSK	1	61	17.86	17.88	17.87			
45	QPSK	1	121	17.35	17.27	17.29			
45	QPSK	121	0	17.83	17.90	17.91	19.0	0.0	
45	QPSK	121	61	17.12	17.95	17.20	19.0	0.0	
45	QPSK	121	121	17.31	17.28	17.27			
45	QPSK	242	0	17.89	17.91	17.88			
45	16QAM	1	1	17.12	17.26	17.12	19.0	0.0	
45	64QAM	1	1	17.90	17.94	17.95	19.0	0.0	
45	256QAM	1	1	17.83	17.84	17.86	19.0	0.0	
Channel				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	17.84	17.84	17.89	19.0	0.0	
Channel				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
35	QPSK	1	1	17.84	17.84	17.89	19.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
30	QPSK	1	1	17.87	17.85	17.89	19.0	0.0	
Channel				345000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	17.85	17.89	17.85	19.0	0.0	
Channel				345000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	17.85	17.96	17.82	19.0	0.0	
Channel				345000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	17.90	17.88	17.93	19.0	0.0	
Channel				345000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1716	1745	1775			
10	QPSK	1	1	17.82	17.94	17.88	19.0	0.0	
Channel				345000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	17.92	17.91	17.91	19.0	0.0	

n70 Ant0 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340000	345000	345000			
Frequency (MHz)				1700	1702.5	1705			
15	PI2 BPSK	1	1	18.02	18.02	18.02			
15	PI2 BPSK	1	40	18.84	18.84	18.84	20.0	0.0	
15	PI2 BPSK	1	77	18.03	18.03	18.03			
15	PI2 BPSK	36	0	18.82	18.82	18.82	20.0	0.0	
15	PI2 BPSK	36	22	18.84	18.84	18.84	20.0	0.0	
15	PI2 BPSK	75	0	18.01	18.01	18.01	20.0	0.0	
15	QPSK	1	1	18.06	18.06	18.06	20.0	0.0	
15	QPSK	1	40	18.82	18.82	18.82			
15	QPSK	1	77	18.88	18.88	18.88	20.0	0.0	
15	QPSK	36	0	18.84	18.84	18.84	20.0	0.0	
15	QPSK	36	22	18.05	18.05	18.05	20.0	0.0	
15	QPSK	75	0	18.97	18.97	18.97	20.0	0.0	
15	16QAM	1	1	18.01	18.01	18.01	20.0	0.0	
15	64QAM	1	1	18.85	18.85	18.85	20.0	0.0	
15	256QAM	1	1	18.86	18.86	18.86	18.5	0.5	
Channel				340000	345000	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	18.86	18.88	19.00	20.0	0.0	
Channel				340000	345000	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	18.93	18.98	19.09	20.0	0.0	

n71 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI2 BPSK	1	1	22.92	23.04	22.97			
20	PI2 BPSK	1	53	22.84	22.91	22.78	24.0	0.0	
20	PI2 BPSK	1	104	22.73	22.83	22.79			
20	PI2 BPSK	50	0	22.45	22.52	22.40	23.5	0.5	
20	PI2 BPSK	50	28	22.94	23.02	22.98	24.0	0.0	
20	PI2 BPSK	50	56	22.48	22.52	22.38	23.5	0.5	
20	PI2 BPSK	100	0	22.50	22.58	22.52			
20	QPSK	1	1	23.07	23.11	23.01			
20	QPSK	1	53	22.90	22.95	22.83	24.0	0.0	
20	QPSK	1	104	22.98	22.76	22.62			
20	QPSK	50	0	21.85	21.94	21.82	23.0	1.0	
20	QPSK	50	28	23.00	23.07	22.96	24.0	0.0	
20	QPSK	50	56	21.86	22.60	21.81			
20	QPSK	100	0	22.01	22.04	21.97	23.0	1.0	
20	16QAM	1	1	21.60	21.66	21.55	23.0	1.0	
20	64QAM	1	1	20.07	20.13	20.00	21.5	2.5	
20	256QAM	1	1	18.61	18.70	18.62	18.5	4.5	
Channel				134100	136100	136100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.95	23.05	22.98	24.0	0.0	
Channel				133900	136100	136900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.93	23.01	22.97	24.0	0.0	
Channel				133100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665	680.5	695.5			
5	QPSK	1	1	22.92	23.08	22.86	24.0	0.0	



n7 Ant1 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	19.69	19.73	19.60			
50	PI/2 BPSK	1	135	19.57	19.55	19.57	20.5	0.0	
50	PI/2 BPSK	1	268	19.27	19.30	19.26			
50	PI/2 BPSK	135	0	19.65	19.77	19.62	20.5	0.0	
50	PI/2 BPSK	135	68	19.49	19.60	19.53	20.5	0.0	
50	PI/2 BPSK	135	135	19.19	19.26	19.22	20.5	0.0	
50	PI/2 BPSK	270	0	19.73	19.72	19.66			
50	QPSK	1	1	19.52	19.78	19.55			
50	QPSK	1	135	19.16	19.27	19.24	20.5	0.0	
50	QPSK	1	268	19.70	19.77	19.69			
50	QPSK	135	0	19.53	19.64	19.49	20.5	0.0	
50	QPSK	135	68	19.18	19.74	19.26	20.5	0.0	
50	QPSK	135	135	19.68	19.64	19.65	20.5	0.0	
50	QPSK	270	0	19.52	19.58	19.47			
50	16QAM	1	1	19.18	19.30	19.17	20.5	0.0	
50	64QAM	1	1	19.53	19.55	19.57	20.5	0.0	
50	256QAM	1	1	18.89	18.92	18.84	19.5	1.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	19.62	19.59	19.56	20.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.56	19.65	19.48	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2537.5			
25	QPSK	1	1	19.49	19.68	19.52	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	19.56	19.54	19.55	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	19.61	19.67	19.49	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.58	19.63	19.47	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.49	19.56	19.45	20.5	0.0	

n30 Ant1 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel							462000		
Frequency (MHz)							2310		
10	PI/2 BPSK	1	1			20.73			
10	PI/2 BPSK	1	26			20.71		21.5	0.0
10	PI/2 BPSK	1	50			20.85			
10	PI/2 BPSK	25	0			20.85		21.5	0.0
10	PI/2 BPSK	25	14			20.76			
10	PI/2 BPSK	25	27			20.71			
10	PI/2 BPSK	50	0			20.82		21.5	0.0
10	QPSK	1	1			20.86			
10	QPSK	1	26			20.77		21.5	0.0
10	QPSK	1	50			20.76			
10	QPSK	25	0			20.76		21.5	0.0
10	QPSK	25	14			20.81		21.5	0.0
10	QPSK	25	27			20.80			
10	QPSK	50	0			20.75		21.5	0.0
10	16QAM	1	1			20.73		21.5	0.0
10	64QAM	1	1			20.39		21.5	0.0
10	256QAM	1	1			18.89		19.5	2.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	20.79	20.84	20.77	21.5	0.0	



n41 Ant1 PC3&2 ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				505000	518598	526000		
100	Pi2 BPSK	1	1	19.54	19.64	19.43		
100	Pi2 BPSK	1	137	19.56	19.58	19.39	20.5	0.0
100	Pi2 BPSK	1	271	19.56	19.56	19.44		
100	Pi2 BPSK	135	0	19.53	19.56	19.47	20.5	0.0
100	Pi2 BPSK	135	69	19.55	19.63	19.48	20.5	0.0
100	Pi2 BPSK	135	138	19.59	19.65	19.42	20.5	0.0
100	Pi2 BPSK	270	0	19.62	19.62	19.42		
100	QPSK	1	1	19.62	19.60	19.46		
100	QPSK	1	137	19.60	19.67	19.47	20.5	0.0
100	QPSK	1	271	19.65	19.61	19.43		
100	QPSK	135	0	19.55	19.61	19.37	20.5	0.0
100	QPSK	135	69	19.63	19.66	19.47	20.5	0.0
100	QPSK	135	138	19.52	19.61	19.38	20.5	0.0
100	QPSK	270	0	19.60	19.59	19.47		
100	HQAM	1	1	19.63	19.60	19.47	20.5	0.0
100	HQAM	1	1	19.58	19.60	19.49	20.5	0.0
100	SSGAM	1	1	19.26	19.36	19.31	20.5	0.0
Channel								
Frequency (MHz)				508000	518598	526998	Tune-up limit (dB)	MPR
90	QPSK	1	1	2541	2592.99	2644.98	20.5	0.0
Channel								
Frequency (MHz)				507204	518598	526998	Tune-up limit (dB)	MPR
80	QPSK	1	1	2538.02	2592.99	2649.98	20.5	0.0
Channel								
Frequency (MHz)				505200	518598	531000	Tune-up limit (dB)	MPR
70	QPSK	1	1	19.59	19.60	19.42	20.5	0.0
Channel								
Frequency (MHz)				505200	518598	531998	Tune-up limit (dB)	MPR
80	QPSK	1	1	19.60	19.63	19.50	20.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dB)	MPR
50	QPSK	1	1	2521.02	2592.99	2664.99	20.5	0.0
Channel								
Frequency (MHz)				504200	518598	533998	Tune-up limit (dB)	MPR
40	QPSK	1	1	19.64	19.59	19.40	20.5	0.0
Channel								
Frequency (MHz)				502200	518598	534998	Tune-up limit (dB)	MPR
30	QPSK	1	1	19.52	19.63	19.40	20.5	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dB)	MPR
20	QPSK	1	1	2502.02	2592.99	2679.98	20.5	0.0
Channel								
Frequency (MHz)				500200	518598	536998	Tune-up limit (dB)	MPR
15	QPSK	1	1	2503.5	2592.99	2692.48	20.5	0.0
Channel								
Frequency (MHz)				2501.01	2592.99	2685	Tune-up limit (dB)	MPR
10	QPSK	1	1	19.63	19.65	19.41	20.5	0.0

Part270 n77 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000	656000	662000		
100	Pi2 BPSK	1	1	19.12	19.22	19.17		
100	Pi2 BPSK	1	137	19.98	20.03	19.96	21.0	0.0
100	Pi2 BPSK	1	271	19.05	19.11	19.05		
100	Pi2 BPSK	135	0	19.94	19.97	19.90	21.0	0.0
100	Pi2 BPSK	135	69	19.94	20.04	19.98	21.0	0.0
100	Pi2 BPSK	135	138	19.80	19.86	19.82	21.0	0.0
100	Pi2 BPSK	270	0	19.81	19.86	19.88		
100	QPSK	1	1	19.34	19.37	19.19		
100	QPSK	1	137	20.08	20.26	20.01	21.0	0.0
100	QPSK	1	271	19.91	19.02	19.97		
100	QPSK	135	0	19.86	20.00	19.87	21.0	0.0
100	QPSK	135	69	20.17	20.21	19.95	21.0	0.0
100	QPSK	135	138	19.87	19.96	19.81	21.0	0.0
100	QPSK	270	0	19.91	20.07	19.84		
100	HQAM	1	1	19.01	19.08	19.84	21.0	0.0
100	HQAM	1	1	18.86	19.01	19.94	21.0	0.0
100	SSGAM	1	1	18.10	18.14	17.99	19.5	1.5
Channel								
Frequency (MHz)				648668	656000	662334	Tune-up limit (dB)	MPR
90	QPSK	1	1	3745.02	3840	3935.01	21.0	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dB)	MPR
80	QPSK	1	1	3740.01	3840	3940.02	21.0	0.0
Channel								
Frequency (MHz)				648000	656000	663000	Tune-up limit (dB)	MPR
70	QPSK	1	1	20.04	20.23	19.91	21.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dB)	MPR
80	QPSK	1	1	3733.02	3840	3930.01	21.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dB)	MPR
50	QPSK	1	1	20.01	20.26	19.96	21.0	0.0
Channel								
Frequency (MHz)				647000	656000	664000	Tune-up limit (dB)	MPR
40	QPSK	1	1	19.96	20.16	19.90	21.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dB)	MPR
30	QPSK	1	1	19.96	20.14	19.91	21.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dB)	MPR
20	QPSK	1	1	3710.01	3840	3910.02	21.0	0.0
Channel								
Frequency (MHz)				646000	656000	665000	Tune-up limit (dB)	MPR
15	QPSK	1	1	19.97	20.18	19.95	21.0	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dB)	MPR
10	QPSK	1	1	3707.52	3840	3912.51	21.0	0.0

Part270 n77 Ant1 PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000	656000	662000		
100	Pi2 BPSK	1	1	19.68	19.74	19.62		
100	Pi2 BPSK	1	137	20.51	20.47	20.44	21.0	0.0
100	Pi2 BPSK	1	271	19.51	19.80	19.51		
100	Pi2 BPSK	135	0	20.38	20.41	20.35	21.0	0.0
100	Pi2 BPSK	135	69	20.46	20.52	20.48	21.0	0.0
100	Pi2 BPSK	135	138	20.35	20.37	20.35	21.0	0.0
100	Pi2 BPSK	270	0	20.38	20.46	20.35		
100	QPSK	1	1	19.81	19.77	19.75		
100	QPSK	1	137	20.58	20.76	20.51	21.0	0.0
100	QPSK	1	271	19.34	19.48	19.43		
100	QPSK	135	0	20.39	20.45	20.41	21.0	0.0
100	QPSK	135	69	20.67	20.74	20.59	21.0	0.0
100	QPSK	135	138	20.44	20.52	20.25	21.0	0.0
100	QPSK	270	0	20.34	20.58	20.41		
100	HQAM	1	1	19.53	19.86	19.50	21.0	0.0
100	HQAM	1	1	19.40	19.53	19.46	21.0	0.0
100	SSGAM	1	1	18.23	18.33	18.34	19.5	1.5
Channel								
Frequency (MHz)				648668	656000	662334	Tune-up limit (dB)	MPR
90	QPSK	1	1	3745.02	3840	3935.01	21.0	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dB)	MPR
80	QPSK	1	1	3740.01	3840	3940.02	21.0	0.0
Channel								
Frequency (MHz)				648000	656000	663000	Tune-up limit (dB)	MPR
70	QPSK	1	1	20.34	20.53	20.34	21.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dB)	MPR
80	QPSK	1	1	3733.02	3840	3930.01	21.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dB)	MPR
50	QPSK	1	1	20.34	20.43	20.28	21.0	0.0
Channel								
Frequency (MHz)				647000	656000	664000	Tune-up limit (dB)	MPR
40	QPSK	1	1	20.43	20.44	20.28	21.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dB)	MPR
30	QPSK	1	1	20.38	20.45	20.28	21.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dB)	MPR
20	QPSK	1	1	3710.01	3840	3910.02	21.0	0.0
Channel								
Frequency (MHz)				646000	656000	665000	Tune-up limit (dB)	MPR
15	QPSK	1	1	20.40	20.52	20.29	21.0	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dB)	MPR
10	QPSK	1	1	3707.52	3840	3912.51	21.0	0.0



Part27Q n77 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.26	3500.01			
100	PI2 BPSK	1	137	20.28			21.0	0.0
100	PI2 BPSK	1	271	19.41			21.0	0.0
100	PI2 BPSK	135	69	20.12			21.0	0.0
100	PI2 BPSK	135	69	20.24			21.0	0.0
100	PI2 BPSK	135	138	20.19			21.0	0.0
100	PI2 BPSK	270	0	20.11			21.0	0.0
100	QPSK	1	1	19.33			21.0	0.0
100	QPSK	1	137	20.34			21.0	0.0
100	QPSK	1	271	19.46			21.0	0.0
100	QPSK	135	69	20.15			21.0	0.0
100	QPSK	135	69	20.26			21.0	0.0
100	QPSK	135	138	20.16			21.0	0.0
100	QPSK	270	0	20.08			21.0	0.0
100	16QAM	1	1	19.18			21.0	0.0
100	16QAM	1	1	19.15			21.0	0.0
100	256QAM	1	1	18.21			19.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.11	20.19	20.16	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.23	20.24	20.17	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.20	20.27	20.19	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.20	20.27	20.19	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.12	20.31	20.12	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.14	20.21	20.19	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.11	20.20	20.14	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.14	20.29	20.19	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.14	20.29	20.18	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.21	20.30	20.20	21.0	0.0

Part27Q n77 Ant1 PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.71	63334			
100	PI2 BPSK	1	137	20.72			21.0	0.0
100	PI2 BPSK	1	271	19.90			21.0	0.0
100	PI2 BPSK	135	69	20.08			21.0	0.0
100	PI2 BPSK	135	69	20.79			21.0	0.0
100	PI2 BPSK	135	138	20.05			21.0	0.0
100	PI2 BPSK	270	0	20.62			21.0	0.0
100	QPSK	1	1	19.98			21.0	0.0
100	QPSK	1	137	20.99			21.0	0.0
100	QPSK	1	271	19.98			21.0	0.0
100	QPSK	135	69	20.59			21.0	0.0
100	QPSK	135	69	20.62			21.0	0.0
100	QPSK	135	138	20.84			21.0	0.0
100	QPSK	270	0	20.58			21.0	0.0
100	16QAM	1	1	19.84			21.0	0.0
100	16QAM	1	1	19.80			21.0	0.0
100	256QAM	1	1	18.73			19.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.05	20.63	20.60	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.63	20.76	20.84	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.56	20.63	20.68	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.62	20.68	20.72	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.68	20.70	20.87	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.57	20.63	20.81	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.55	20.72	20.84	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.58	20.62	20.87	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.60	20.75	20.89	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.59	20.65	20.84	21.0	0.0

Part27O n78 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.37	65000			
100	PI2 BPSK	1	137	20.31			21.0	0.0
100	PI2 BPSK	1	271	19.29			21.0	0.0
100	PI2 BPSK	135	69	20.14			21.0	0.0
100	PI2 BPSK	135	69	20.31			21.0	0.0
100	PI2 BPSK	135	138	20.09			21.0	0.0
100	PI2 BPSK	270	0	20.03			21.0	0.0
100	QPSK	1	1	19.42			21.0	0.0
100	QPSK	1	137	20.37			21.0	0.0
100	QPSK	1	271	19.33			21.0	0.0
100	QPSK	135	69	20.19			21.0	0.0
100	QPSK	135	69	20.33			21.0	0.0
100	QPSK	135	138	20.14			21.0	0.0
100	QPSK	270	0	20.06			21.0	0.0
100	16QAM	1	1	19.21			21.0	0.0
100	16QAM	1	1	19.15			21.0	0.0
100	256QAM	1	1	18.27			19.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.29	20.32	20.21	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.25	20.30	20.24	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.20	20.33	20.16	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.20	20.33	20.16	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.25	20.28	20.21	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.20	20.26	20.19	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.28	20.22	20.20	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.24	20.25	20.21	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.30	20.30	20.25	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.25	20.32	20.22	21.0	0.0



Part270 n78 Ant1 PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	19.61				
100	Pi2 BPSK	1	137	20.49				
100	Pi2 BPSK	1	271	19.55			21.0	0.0
100	Pi2 BPSK	135	0	20.34			21.0	0.0
100	Pi2 BPSK	135	69	20.53			21.0	0.0
100	Pi2 BPSK	135	138	20.26			21.0	0.0
100	Pi2 BPSK	270	0	20.18			21.0	0.0
100	QPSK	1	1	19.62			21.0	0.0
100	QPSK	1	137	20.55			21.0	0.0
100	QPSK	1	271	19.48			21.0	0.0
100	QPSK	135	0	20.42			21.0	0.0
100	QPSK	135	69	20.33			21.0	0.0
100	QPSK	135	138	20.27			21.0	0.0
100	QPSK	270	0	20.20			21.0	0.0
100	16QAM	1	1	19.36			21.0	0.0
100	64QAM	1	1	19.34			21.0	0.0
100	256QAM	1	1	18.43			19.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.47	20.48	20.47	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.48	20.46	20.45	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.44	20.49	20.38	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.49	20.45	20.44	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.51	20.51	20.42	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.52	20.53	20.38	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.52	20.51	20.40	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.44	20.47	20.45	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.54	20.52	20.47	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.48	20.54	20.46	21.0	0.0

Part27Q n78 Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	19.18				
100	Pi2 BPSK	1	137	20.06				
100	Pi2 BPSK	1	271	19.48			21.0	0.0
100	Pi2 BPSK	135	0	19.64			21.0	0.0
100	Pi2 BPSK	135	69	19.79			21.0	0.0
100	Pi2 BPSK	135	138	19.92			21.0	0.0
100	Pi2 BPSK	270	0	19.74			21.0	0.0
100	QPSK	1	1	19.24			21.0	0.0
100	QPSK	1	137	20.13			21.0	0.0
100	QPSK	1	271	19.92			21.0	0.0
100	QPSK	135	0	19.69			21.0	0.0
100	QPSK	135	69	20.08			21.0	0.0
100	QPSK	135	138	19.97			21.0	0.0
100	QPSK	270	0	19.95			21.0	0.0
100	16QAM	1	1	18.83			21.0	0.0
100	64QAM	1	1	18.79			21.0	0.0
100	256QAM	1	1	18.25			19.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.04	20.06	19.99	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.99	20.01	19.92	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.96	20.07	19.87	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.04	20.03	19.93	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.01	20.08	19.80	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.00	20.03	19.86	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.99	19.98	19.86	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.97	20.09	19.84	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.96	19.99	19.93	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.97	20.04	19.89	21.0	0.0

Part27Q n78 Ant1 PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	19.42				
100	Pi2 BPSK	1	137	20.38				
100	Pi2 BPSK	1	271	19.82			21.0	0.0
100	Pi2 BPSK	135	0	19.87			21.0	0.0
100	Pi2 BPSK	135	69	20.11			21.0	0.0
100	Pi2 BPSK	135	138	20.19			21.0	0.0
100	Pi2 BPSK	270	0	20.04			21.0	0.0
100	QPSK	1	1	19.50			21.0	0.0
100	QPSK	1	137	20.45			21.0	0.0
100	QPSK	1	271	19.87			21.0	0.0
100	QPSK	135	0	19.97			21.0	0.0
100	QPSK	135	69	20.38			21.0	0.0
100	QPSK	135	138	20.20			21.0	0.0
100	QPSK	270	0	20.21			21.0	0.0
100	16QAM	1	1	19.15			21.0	0.0
100	64QAM	1	1	19.14			21.0	0.0
100	256QAM	1	1	18.25			19.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.38	20.35	20.13	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.38	20.31	20.15	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.37	20.38	20.16	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.30	20.32	20.20	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.35	20.33	20.24	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.30	20.36	20.16	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.33	20.37	20.23	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.32	20.37	20.25	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.32	20.42	20.25	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.29	20.39	20.17	21.0	0.0



n41 Ant2 PC3&PC2 ECI3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				505202	518598	526000				
Frequency (MHz)				2544.01	2592.99	2640				
100	Pi2 BPSK	1	1	18.48	18.61	18.47				
100	Pi2 BPSK	1	137	18.59	18.64	18.52	19.0	0.0		
100	Pi2 BPSK	1	271	18.52	18.52	18.45				
100	Pi2 BPSK	135	0	18.57	18.52	18.40	19.0	0.0		
100	Pi2 BPSK	135	69	18.56	18.66	18.39	19.0	0.0		
100	Pi2 BPSK	135	138	18.51	18.65	18.39	19.0	0.0		
100	Pi2 BPSK	270	0	18.48	18.66	18.43				
100	QPSK	1	1	18.47	18.62	18.48				
100	QPSK	1	137	18.60	18.67	18.51	19.0	0.0		
100	QPSK	1	271	18.57	18.59	18.43				
100	QPSK	135	0	18.50	18.61	18.43	19.0	0.0		
100	QPSK	135	69	18.50	18.66	18.51	19.0	0.0		
100	QPSK	135	138	18.47	18.56	18.46	19.0	0.0		
100	QPSK	270	0	18.47	18.54	18.38				
100	16QAM	1	1	18.58	18.56	18.40	19.0	0.0		
100	16QAM	1	1	18.56	18.52	18.39	19.0	0.0		
100	256QAM	1	1	18.38	18.51	18.40	19.0	0.0		
Channel				508200	518598	526996				
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	1	1	18.35	18.54	18.32	19.0	0.0		
Channel				507204	518598	526998				
Frequency (MHz)				2538.02	2592.99	2649.98				
80	QPSK	1	1	18.35	18.50	18.30	19.0	0.0		
Channel				506202	518598	531000				
Frequency (MHz)				2535.02	2592.99	2650.98				
70	QPSK	1	1	18.38	18.47	18.36	19.0	0.0		
Channel				505200	518598	531996				
Frequency (MHz)				2532.02	2592.99	2655.98				
60	QPSK	1	1	18.45	18.46	18.26	19.0	0.0		
Channel				504204	518598	532998				
Frequency (MHz)				2521.02	2592.99	2664.98				
50	QPSK	1	1	18.42	18.48	18.37	19.0	0.0		
Channel				503202	518598	533996				
Frequency (MHz)				2518.01	2592.99	2670				
40	QPSK	1	1	18.49	18.52	18.36	19.0	0.0		
Channel				502200	518598	534996				
Frequency (MHz)				2506.02	2592.99	2679.98				
30	QPSK	1	1	18.46	18.44	18.26	19.0	0.0		
Channel				501204	518598	535998				
Frequency (MHz)				2502.02	2592.99	2684.98				
20	QPSK	1	1	18.44	18.51	18.37	19.0	0.0		
Channel				500200	518598	536996				
Frequency (MHz)				2493.02	2592.99	2692.98				
15	QPSK	1	1	18.42	18.53	18.28	19.0	0.0		
Channel				500202	518598	537000				
Frequency (MHz)				2501.01	2592.99	2685				
10	QPSK	1	1	18.48	18.49	18.30	19.0	0.0		

Part270 n77 Ant2 PC3&PC2 ECI3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	656000	662000				
Frequency (MHz)				3790	3840	3900				
100	Pi2 BPSK	1	1	13.77	13.80	13.48				
100	Pi2 BPSK	1	137	13.72	13.76	13.38	14.5	0.0		
100	Pi2 BPSK	1	271	13.75	13.80	13.49				
100	Pi2 BPSK	135	0	13.76	13.86	13.42	14.5	0.0		
100	Pi2 BPSK	135	69	13.80	13.89	13.44	14.5	0.0		
100	Pi2 BPSK	135	138	13.70	13.82	13.48	14.5	0.0		
100	Pi2 BPSK	270	0	13.71	13.88	13.42				
100	QPSK	1	1	13.82	13.84	13.43				
100	QPSK	1	137	13.79	13.94	13.46	14.5	0.0		
100	QPSK	1	271	13.77	13.84	13.41				
100	QPSK	135	0	13.74	13.89	13.49	14.5	0.0		
100	QPSK	135	69	13.74	13.90	13.49	14.5	0.0		
100	QPSK	135	138	13.72	13.76	13.47	14.5	0.0		
100	QPSK	270	0	13.72	13.86	13.43				
100	16QAM	1	1	13.78	13.82	13.44	14.5	0.0		
100	16QAM	1	1	13.72	13.84	13.45	14.5	0.0		
100	256QAM	1	1	13.81	13.93	13.80	14.5	0.0		
Channel				648668	656000	663334				
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	13.60	13.53	13.27	14.5	0.0		
Channel				646334	656000	662668				
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	13.53	13.55	13.22	14.5	0.0		
Channel				644668	656000	663334				
Frequency (MHz)				3735.02	3840	3950.01				
70	QPSK	1	1	13.51	13.52	13.16	14.5	0.0		
Channel				643334	656000	663334				
Frequency (MHz)				3730.02	3840	3955.01				
60	QPSK	1	1	13.49	13.50	13.23	14.5	0.0		
Channel				643334	656000	663668				
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	13.56	13.54	13.19	14.5	0.0		
Channel				642000	656000	663000				
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	13.49	13.52	13.16	14.5	0.0		
Channel				640668	656000	663334				
Frequency (MHz)				3715.01	3840	3970.02				
30	QPSK	1	1	13.54	13.52	13.20	14.5	0.0		
Channel				641334	656000	664668				
Frequency (MHz)				3710.01	3840	3975.01				
20	QPSK	1	1	13.57	13.57	13.24	14.5	0.0		
Channel				641668	656000	664334				
Frequency (MHz)				3707.52	3840	3972.51				
15	QPSK	1	1	13.48	13.53	13.21	14.5	0.0		
Channel				641000	656000	663000				
Frequency (MHz)				3705	3840	3975				
10	QPSK	1	1	13.52	13.50	13.26	14.5	0.0		

Part270Q n77 Ant2 PC3&PC2 ECI3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				630000	633334	636668				
Frequency (MHz)				3695	3500.01	3505.02				
100	Pi2 BPSK	1	1	13.82						
100	Pi2 BPSK	1	137	13.54			14.5	0.0		
100	Pi2 BPSK	1	271	13.58						
100	Pi2 BPSK	135	0	13.62			14.5	0.0		
100	Pi2 BPSK	135	69	13.62			14.5	0.0		
100	Pi2 BPSK	135	138	13.61			14.5	0.0		
100	Pi2 BPSK	270	0	13.50						
100	QPSK	1	1	13.63						
100	QPSK	1	137	13.64			14.5	0.0		
100	QPSK	1	271	13.50						
100	QPSK	135	0	13.59			14.5	0.0		
100	QPSK	135	69	13.60			14.5	0.0		
100	QPSK	135	138	13.53			14.5	0.0		
100	QPSK	270	0	13.50						
100	16QAM	1	1	13.66			14.5	0.0		
100	16QAM	1	1	13.60			14.5	0.0		
100	256QAM	1	1	13.53			14.5	0.0		
Channel				630000	633334	636668				
Frequency (MHz)				3695	3500.01	3505.02				
90	QPSK	1	1	13.43	13.40	13.10	14.5	0.0		
Channel				629668	633334	636000				
Frequency (MHz)				3490.02	3500.01	3510				
80	QPSK	1	1	13.38	13.39	13.08	14.5	0.0		
Channel				628334	633334	635334				
Frequency (MHz)				3486	3500.01	3505.02				
70	QPSK	1	1	13.39	13.47	13.13	14.5	0.0		
Channel				627000	633334	634668				
Frequency (MHz)				3480	3500.01	3505.02				
60	QPSK	1	1	13.43	13.33	13.11	14.5	0.0		
Channel				625668	633334	634000				
Frequency (MHz)				3475.02	3500.01	3505				
50	QPSK	1	1	13.43	13.46	13.14	14.5	0.0		
Channel				624334	633334	633334				
Frequency (MHz)				3470.01	3500.01	3505.01				
40	QPSK	1	1							



Part270 n78 Ant2 PC3&PC2 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	13.93	13.93		14.5	0.0	
100	PI2 BPSK	1	137	13.85	13.85				
100	PI2 BPSK	1	271	13.85	13.85		14.5	0.0	
100	PI2 BPSK	135	0	13.93	13.93		14.5	0.0	
100	PI2 BPSK	135	69	13.93	13.93		14.5	0.0	
100	PI2 BPSK	135	138	13.91	13.91		14.5	0.0	
100	PI2 BPSK	270	0	13.85	13.85				
100	QPSK	1	1	13.94	13.94		14.5	0.0	
100	QPSK	1	137	13.92	13.92				
100	QPSK	1	271	13.90	13.90		14.5	0.0	
100	QPSK	135	0	13.86	13.86		14.5	0.0	
100	QPSK	135	69	13.91	13.91		14.5	0.0	
100	QPSK	135	138	13.86	13.86		14.5	0.0	
100	QPSK	270	0	13.90	13.90				
100	16QAM	1	1	13.86	13.86		14.5	0.0	
100	64QAM	1	1	13.88	13.88		14.5	0.0	
100	256QAM	1	1	13.88	13.88		14.5	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	13.53	13.52	13.41	14.5	0.0	
Channel				64934	65000	65066	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	13.61	13.53	13.43	14.5	0.0	
Channel				65000	65000	65100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3755	3750	3765			
70	QPSK	1	1	13.54	13.61	13.40	14.5	0.0	
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.02	3750	3760.01			
60	QPSK	1	1	13.63	13.55	13.44	14.5	0.0	
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	13.56	13.54	13.45	14.5	0.0	
Channel				65000	65000	65200	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3750	3750	3780			
40	QPSK	1	1	13.55	13.53	13.44	14.5	0.0	
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3765.01			
30	QPSK	1	1	13.62	13.60	13.38	14.5	0.0	
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	13.61	13.57	13.40	14.5	0.0	
Channel				64768	65000	65284	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	13.62	13.57	13.40	14.5	0.0	
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	13.58	13.50	13.47	14.5	0.0	

Part27Q n78 Ant2 PC2 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633668			
Frequency (MHz)				3600.01	3600.01	3600.01			
100	PI2 BPSK	1	1	13.79	13.79		14.5	0.0	
100	PI2 BPSK	1	137	13.67	13.67				
100	PI2 BPSK	1	271	13.71	13.71		14.5	0.0	
100	PI2 BPSK	135	0	13.75	13.75		14.5	0.0	
100	PI2 BPSK	135	69	13.80	13.80		14.5	0.0	
100	PI2 BPSK	135	138	13.74	13.74		14.5	0.0	
100	PI2 BPSK	270	0	13.68	13.68				
100	QPSK	1	1	13.70	13.70		14.5	0.0	
100	QPSK	1	137	13.61	13.61				
100	QPSK	1	271	13.68	13.68		14.5	0.0	
100	QPSK	135	0	13.77	13.77		14.5	0.0	
100	QPSK	135	69	13.78	13.78		14.5	0.0	
100	QPSK	135	138	13.74	13.74		14.5	0.0	
100	QPSK	270	0	13.70	13.70				
100	16QAM	1	1	13.76	13.76		14.5	0.0	
100	64QAM	1	1	13.70	13.70		14.5	0.0	
100	256QAM	1	1	13.72	13.72		14.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	13.72	13.74	13.60	14.5	0.0	
Channel				63268	63334	63400	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510.01			
80	QPSK	1	1	13.75	13.66	13.52	14.5	0.0	
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485	3500.01	3505.02			
70	QPSK	1	1	13.72	13.67	13.61	14.5	0.0	
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480.01	3500.01	3505.02			
60	QPSK	1	1	13.74	13.72	13.53	14.5	0.0	
Channel				63168	63334	63500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3505.01			
50	QPSK	1	1	13.72	13.70	13.55	14.5	0.0	
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3505.01			
40	QPSK	1	1	13.76	13.73	13.60	14.5	0.0	
Channel				63100	63334	63568	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3505.02			
30	QPSK	1	1	13.75	13.68	13.59	14.5	0.0	
Channel				63068	63334	63600	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3505.01			
20	QPSK	1	1	13.74	13.65	13.60	14.5	0.0	
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3500.01	3505.01			
15	QPSK	1	1	13.75	13.71	13.54	14.5	0.0	
Channel				63000	63334	63668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3450.01	3500.01	3505.01			
10	QPSK	1	1	13.79	13.68	13.57	14.5	0.0	



n2 Ant4 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI/2 BPSK	1	1	18.98	19.00	18.95			
30	PI/2 BPSK	1	80	18.91	19.00	18.75	20.0	0.0	
30	PI/2 BPSK	1	158	18.82	18.94	18.73			
30	PI/2 BPSK	80	0	19.00	19.00	19.00	20.0	0.0	
30	PI/2 BPSK	80	40	18.94	18.97	18.83	20.0	0.0	
30	PI/2 BPSK	80	80	18.82	18.84	18.83	20.0	0.0	
30	PI/2 BPSK	160	0	19.00	19.00	19.00			
30	QPSK	1	1	18.87	19.02	18.77			
30	QPSK	1	80	18.73	18.86	18.85	20.0	0.0	
30	QPSK	1	158	19.00	19.00	19.00			
30	QPSK	80	0	18.85	18.99	18.76	20.0	0.0	
30	QPSK	80	40	18.79	19.00	18.80	20.0	0.0	
30	QPSK	80	80	18.86	18.86	18.97	20.0	0.0	
30	QPSK	160	0	18.91	18.92	18.76	20.0	0.0	
30	16QAM	1	1	18.85	18.96	18.84	20.0	0.0	
30	64QAM	1	1	18.85	18.98	18.89	20.0	0.0	
30	256QAM	1	1	17.90	17.87	17.72	18.5	1.5	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.87	18.93	18.84	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.86	18.86	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.86	18.86	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.94	18.88	18.80	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.91	18.93	18.88	20.0	0.0	

n5 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	PI/2 BPSK	1	1	22.84	22.84	22.84			
25	PI/2 BPSK	1	67	22.87	22.87	22.87	24.0	0.0	
25	PI/2 BPSK	1	131	22.81	22.81	22.81			
25	PI/2 BPSK	64	0	22.29	22.29	22.29	23.5	0.5	
25	PI/2 BPSK	64	35	22.80	22.80	22.80	24.0	0.0	
25	PI/2 BPSK	64	69	22.84	22.84	22.84			
25	PI/2 BPSK	128	0	22.32	22.32	22.32	23.5	0.5	
25	QPSK	1	1	22.90	22.90	22.90			
25	QPSK	1	67	22.84	22.84	22.84	24.0	0.0	
25	QPSK	1	131	22.83	22.83	22.83			
25	QPSK	64	0	21.78	21.78	21.78	23.0	1.0	
25	QPSK	64	35	22.82	22.82	22.82	24.0	0.0	
25	QPSK	64	69	21.73	21.73	21.73	23.0	1.0	
25	QPSK	128	0	21.76	21.76	21.76	23.0	1.0	
25	16QAM	1	1	21.28	21.28	21.28	23.0	1.0	
25	64QAM	1	1	19.95	21.5	21.5	2.5	2.5	
25	256QAM	1	1	18.92	18.92	18.92	19.5	4.5	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.74	22.78	22.68	0.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.75	22.78	22.65	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.69	22.83	22.66	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.78	22.80	22.66	24.0	0.0	

n12 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI/2 BPSK	1	1	22.83	22.82	22.86			
15	PI/2 BPSK	1	40	22.78	22.86	22.75	24.0	0.0	
15	PI/2 BPSK	1	77	22.76	22.80	22.68			
15	PI/2 BPSK	36	0	22.82	22.88	22.58	23.5	0.5	
15	PI/2 BPSK	36	22	22.78	22.89	22.77	24.0	0.0	
15	PI/2 BPSK	36	43	22.47	22.82	22.55			
15	PI/2 BPSK	75	0	22.60	22.66	22.58	23.5	0.5	
15	QPSK	1	1	22.90	22.97	22.86			
15	QPSK	1	40	22.87	22.84	22.80	24.0	0.0	
15	QPSK	1	77	22.73	22.84	22.71			
15	QPSK	36	0	22.15	22.19	22.12	23.0	1.0	
15	QPSK	36	22	22.80	22.82	22.87	24.0	0.0	
15	QPSK	36	43	22.10	22.14	22.00	23.0	1.0	
15	QPSK	75	0	22.10	22.19	22.14			
15	16QAM	1	1	21.72	21.82	21.76	23.0	1.0	
15	64QAM	1	1	20.20	20.31	20.20	21.5	2.5	
15	256QAM	1	1	18.78	18.93	18.80	19.5	4.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.78	22.93	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.80	22.88	22.75	24.0	0.0	



n14 Ant4									
BW (MHz)	Modulation	RB 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	PI2 BPSK	1	1	22.50	793				
10	PI2 BPSK	1	1	22.50	793		24.0	0.0	
10	PI2 BPSK	1	26	22.51					
10	PI2 BPSK	1	50	22.48					
10	PI2 BPSK	25	0	22.11			23.5	0.5	
10	PI2 BPSK	25	14	22.32			24.0	0.0	
10	PI2 BPSK	25	27	21.99			23.5	0.5	
10	PI2 BPSK	50	0	22.08					
10	QPSK	1	1	22.61			24.0	0.0	
10	QPSK	1	26	22.54					
10	QPSK	1	50	22.50					
10	QPSK	25	0	21.68			23.0	1.0	
10	QPSK	25	14	22.57			24.0	0.0	
10	QPSK	25	27	21.61			23.0	1.0	
10	QPSK	50	0	21.68			23.0	1.0	
10	16QAM	1	1	21.44			23.0	1.0	
10	64QAM	1	1	19.87			21.5	2.5	
10	256QAM	1	1	18.45			19.5	4.5	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.50	793	795.5	24.0	0.0	
				158100	162900	169100	Tune-up limit (dBm)	MPR (dB)	

n25 Ant4 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	18.24	18.34	18.30			
45	PI2 BPSK	1	61	18.97	18.98	18.99	20.0	0.0	
45	PI2 BPSK	1	121	18.28	18.35	18.18			
45	PI2 BPSK	121	0	18.31	18.32	18.31	20.0	0.0	
45	PI2 BPSK	121	61	18.98	19.02	18.88	20.0	0.0	
45	PI2 BPSK	121	121	18.29	18.42	18.30			
45	PI2 BPSK	242	0	18.33	18.32	18.24	20.0	0.0	
45	QPSK	1	1	18.31	18.37	18.26			
45	QPSK	1	61	18.94	19.03	18.89	20.0	0.0	
45	QPSK	1	121	18.29	18.40	18.27			
45	QPSK	121	0	18.92	18.96	18.94	20.0	0.0	
45	QPSK	121	61	18.20	19.02	18.20	20.0	0.0	
45	QPSK	121	121	18.30	18.36	18.23	20.0	0.0	
45	QPSK	242	0	18.30	18.36	18.52			
45	16QAM	1	1	18.27	18.29	18.22	20.0	0.0	
45	64QAM	1	1	18.27	18.42	18.18	20.0	0.0	
45	256QAM	1	1	17.23	17.44	17.23	18.5	11.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.26	18.40	18.26	20.0	0.0	
				373500	376500	379500	Tune-up limit (dBm)	MPR (dB)	
35	QPSK	1	1	18.17	18.42	18.20	20.0	0.0	
				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.22	18.25	18.25	20.0	0.0	
				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	18.31	18.30	18.23	20.0	0.0	
				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.21	18.40	18.18	20.0	0.0	
				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	18.17	18.31	18.27	20.0	0.0	
				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.24	18.32	18.30	20.0	0.0	
				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	18.19	18.37	18.23	20.0	0.0	

n26 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.78	22.83	22.71			
20	PI2 BPSK	1	53	22.63	22.75	22.63	24.0	0.0	
20	PI2 BPSK	1	104	22.58	22.63	22.56			
20	PI2 BPSK	50	0	22.35	22.39	22.28	23.5	0.5	
20	PI2 BPSK	50	25	22.69	22.80	22.71	24.0	0.0	
20	PI2 BPSK	50	56	22.23	22.33	22.29	23.5	0.5	
20	PI2 BPSK	100	0	22.28	22.38	22.34			
20	QPSK	1	1	22.85	22.88	22.79			
20	QPSK	1	53	22.72	22.81	22.70	24.0	0.0	
20	QPSK	1	104	22.60	22.72	22.61			
20	QPSK	50	0	21.84	21.87	21.77	23.0	1.0	
20	QPSK	50	25	22.80	22.84	22.77	24.0	0.0	
20	QPSK	50	56	21.75	21.82	21.79	23.0	1.0	
20	QPSK	100	0	21.77	21.85	21.81			
20	16QAM	1	1	21.29	21.42	21.32	23.0	1.0	
20	64QAM	1	1	19.97	20.04	19.94	21.5	2.5	
20	256QAM	1	1	18.51	18.62	18.59	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.73	22.85	22.75	24.0	0.0	
				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.75	22.77	22.68	24.0	0.0	
				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.80	22.83	22.75	24.0	0.0	



n66 Ant4 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	18.76	18.83	18.73			
45	PI2 BPSK	1	61	18.73	18.80	18.74	20.0	0.0	
45	PI2 BPSK	1	121	18.80	18.84	18.76			
45	PI2 BPSK	121	0	18.73	18.80	18.67	20.0	0.0	
45	PI2 BPSK	121	61	18.76	18.82	18.74	20.0	0.0	
45	PI2 BPSK	121	121	18.76	18.77	18.77	20.0	0.0	
45	PI2 BPSK	242	0	18.80	18.76	18.79			
45	QPSK	1	1	18.81	18.80	18.76			
45	QPSK	1	61	18.81	18.85	18.78	20.0	0.0	
45	QPSK	1	121	18.73	18.75	18.73			
45	QPSK	121	0	18.80	18.83	18.77	20.0	0.0	
45	QPSK	121	61	18.81	18.84	18.76	20.0	0.0	
45	QPSK	121	121	18.73	18.76	18.73	20.0	0.0	
45	QPSK	242	0	18.77	18.75	18.71			
45	16QAM	1	1	18.80	18.82	18.73	20.0	0.0	
45	64QAM	1	1	18.57	18.68	18.56	20.0	0.0	
45	256QAM	1	1	17.26	17.23	17.20	18.5	1.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.84	18.80	18.74	20.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.83	18.80	18.76	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.83	18.80	18.76	20.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.77	18.80	18.74	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.73	18.81	18.73	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.77	18.81	18.67	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.83	18.81	18.65	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.72	18.80	18.71	20.0	0.0	

n70 Ant4 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	19.39					
15	PI2 BPSK	1	40	19.30			20.5	0.0	
15	PI2 BPSK	1	77	19.33					
15	PI2 BPSK	36	0	19.39			20.5	0.0	
15	PI2 BPSK	36	22	19.36			20.5	0.0	
15	PI2 BPSK	36	43	19.35			20.5	0.0	
15	PI2 BPSK	75	0	19.39					
15	QPSK	1	1	19.47					
15	QPSK	1	40	19.37			20.5	0.0	
15	QPSK	1	77	19.34					
15	QPSK	36	0	19.30			20.5	0.0	
15	QPSK	36	22	19.46			20.5	0.0	
15	QPSK	36	43	19.24			20.5	0.0	
15	QPSK	75	0	19.47					
15	16QAM	1	1	19.37			20.5	0.0	
15	64QAM	1	1	19.08			20.5	0.0	
15	256QAM	1	1	17.62			18.5	2.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.33	19.41	19.32	20.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.28	19.39	19.42	20.5	0.0	

n71 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.10	23.19	23.07			
20	PI2 BPSK	1	53	22.93	23.01	22.98	24.0	0.0	
20	PI2 BPSK	1	104	22.74	22.87	22.78			
20	PI2 BPSK	50	0	22.54	22.68	22.60	23.5	0.5	
20	PI2 BPSK	50	25	23.12	23.16	23.13	24.0	0.0	
20	PI2 BPSK	50	56	22.59	22.62	22.58			
20	PI2 BPSK	100	0	22.55	22.66	22.61	23.5	0.5	
20	QPSK	1	1	23.23	23.26	23.18			
20	QPSK	1	53	23.00	23.08	22.93	24.0	0.0	
20	QPSK	1	104	22.79	22.93	22.84			
20	QPSK	50	0	22.03	22.15	22.05	23.0	1.0	
20	QPSK	50	25	23.19	23.22	23.15	24.0	0.0	
20	QPSK	50	56	21.91	22.05	22.01	23.0	1.0	
20	QPSK	100	0	22.06	22.11	22.02			
20	16QAM	1	1	21.70	21.77	21.67	23.0	1.0	
20	64QAM	1	1	20.18	20.23	20.11	21.5	2.5	
20	256QAM	1	1	18.75	18.82	18.70	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.09	23.13	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.08	23.21	23.06	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	



n41 Ant4 PC3&2 ECI3								
BW [MHz]	Modulation	RB 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	PI/2 BPSK	1	1	15.25	15.73	15.65		
100	PI/2 BPSK	1	137	15.22	15.77	15.55	16.5	0.0
100	PI/2 BPSK	1	271	15.33	15.85	15.65		
100	PI/2 BPSK	135	0	15.26	15.79	15.63	16.5	0.0
100	PI/2 BPSK	135	69	15.25	15.75	15.64	16.5	0.0
100	PI/2 BPSK	135	138	15.32	15.74	15.63		
100	PI/2 BPSK	270	0	15.21	15.80	15.62	16.5	0.0
100	QPSK	1	1	15.21	15.81	15.55		
100	QPSK	1	137	15.32	15.86	15.62	16.5	0.0
100	QPSK	1	271	15.26	15.75	15.61		
100	QPSK	135	0	15.24	15.80	15.58	16.5	0.0
100	QPSK	135	69	15.21	15.84	15.60	16.5	0.0
100	QPSK	135	138	15.24	15.83	15.54		
100	QPSK	270	0	15.24	15.81	15.57	16.5	0.0
100	16QAM	1	1	15.22	15.85	15.66	16.5	0.0
100	64QAM	1	1	15.30	15.72	15.56	16.5	0.0
100	256QAM	1	1	15.27	15.83	15.62	16.5	0.0
Channel								
Frequency (MHz)								
				508200	518598	528996		
90	QPSK	1	1	15.23	15.75	15.56	16.5	0.0
Channel								
Frequency (MHz)								
				507204	518598	529998		
80	QPSK	1	1	15.34	15.80	15.60	16.5	0.0
Channel								
Frequency (MHz)								
				506202	518598	531000		
70	QPSK	1	1	15.22	15.82	15.55	16.5	0.0
Channel								
Frequency (MHz)								
				505200	518598	531996		
60	QPSK	1	1	15.23	15.74	15.65	16.5	0.0
Channel								
Frequency (MHz)								
				504204	518598	532998		
50	QPSK	1	1	15.25	15.78	15.55	16.5	0.0
Channel								
Frequency (MHz)								
				503202	518598	534000		
40	QPSK	1	1	15.16.01	15.82.99	15.70	16.5	0.0
Channel								
Frequency (MHz)								
				502200	518598	534996		
30	QPSK	1	1	15.29	15.84	15.55	16.5	0.0
Channel								
Frequency (MHz)								
				501204	518598	535998		
20	QPSK	1	1	15.33	15.81	15.68	16.5	0.0
Channel								
Frequency (MHz)								
				500700	518598	536496		
15	QPSK	1	1	15.22	15.80	15.56	16.5	0.0
Channel								
Frequency (MHz)								
				500202	518598	537000		
10	QPSK	1	1	15.25.01	15.82.99	15.65	16.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				630000	641666	646332		
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	12.93	13.07	12.91		
40	PI2 BPSK	1	53	12.88	13.02	12.85	14.5	0.0
40	PI2 BPSK	1	104	12.84	13.10	12.82		
40	PI2 BPSK	50	0	12.86	13.04	12.92	14.5	0.0
40	PI2 BPSK	50	28	12.90	13.06	12.84	14.5	0.0
40	PI2 BPSK	50	56	12.88	13.06	12.94		
40	PI2 BPSK	100	0	12.90	13.13	12.91		
40	QPSK	1	1	12.84	13.14	12.85		
40	QPSK	1	53	12.82	13.15	12.93	14.5	0.0
40	QPSK	1	104	12.90	13.06	12.87		
40	QPSK	50	0	12.81	13.09	12.95	14.5	0.0
40	QPSK	50	28	12.88	13.11	12.90	14.5	0.0
40	QPSK	50	56	12.85	13.08	12.87		
40	QPSK	100	0	12.83	13.01	12.91	14.5	0.0
40	16QAM	1	1	12.81	13.05	12.88	14.5	0.0
40	16QAM	1	1	12.91	13.04	12.91	14.5	0.0
40	256QAM	1	1	12.84	13.07	12.83	14.5	0.0
Channel				630000	641666	646332		
Frequency (MHz)				3550.01	3624.99	3690		
20	QPSK	1	1	12.87	13.13	12.88	14.5	0.0
Channel				637168	641666	646168		
Frequency (MHz)				3577.52	3624.99	3692.49		
15	QPSK	1	1	12.90	13.02	12.90	14.5	0.0
Channel				637000	641666	646332		
Frequency (MHz)				3655	3624.99	3694.98		
10	QPSK	1	1	12.80	13.10	12.86	14.5	0.0

Part270 n77 Ant5 PC3&PC2 EC13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	652000		
Frequency (MHz)				3760	3840	3930		
100	PI2 BPSK	1	1	16.94	17.05	16.94		
100	PI2 BPSK	1	137	17.00	17.02	16.93	18.0	0.0
100	PI2 BPSK	1	271	16.97	17.00	16.93		
100	PI2 BPSK	135	0	16.94	17.02	16.83	18.0	0.0
100	PI2 BPSK	135	69	17.04	17.08	16.86	18.0	0.0
100	PI2 BPSK	135	138	17.01	16.97	16.87		
100	PI2 BPSK	270	0	16.96	16.98	16.90		
100	QPSK	1	1	17.01	17.00	16.98		
100	QPSK	1	137	17.00	17.10	16.90	18.0	0.0
100	QPSK	1	271	17.02	17.02	16.94		
100	QPSK	135	0	17.00	16.98	16.89	18.0	0.0
100	QPSK	135	69	16.94	17.05	16.96	18.0	0.0
100	QPSK	135	138	17.04	17.04	16.96		
100	QPSK	270	0	17.00	17.02	16.89	18.0	0.0
100	16QAM	1	1	17.00	17.00	16.96	18.0	0.0
100	16QAM	1	1	17.05	17.07	16.92	18.0	0.0
100	256QAM	1	1	17.02	17.00	16.93	18.0	0.0
Channel				649668	650000	652334		
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.00	16.96	16.85	18.0	0.0
Channel				649334	650000	662668		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.01	16.96	16.92	18.0	0.0
Channel				649000	650000	663000		
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.04	17.01	16.94	18.0	0.0
Channel				648668	650000	663334		
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.92	17.00	16.93	18.0	0.0
Channel				648334	650000	663668		
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.98	17.04	16.94	18.0	0.0
Channel				648000	650000	664000		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.03	17.04	16.86	18.0	0.0
Channel				647668	650000	664334		
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.98	16.99	16.90	18.0	0.0
Channel				647334	650000	664668		
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.92	17.09	16.92	18.0	0.0
Channel				647168	650000	664934		
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	17.00	16.96	16.85	18.0	0.0
Channel				647000	650000	665000		
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	16.98	17.06	16.90	18.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	635000		
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1			16.95		
100	PI2 BPSK	1	137			16.97	18.0	0.0
100	PI2 BPSK	1	271			16.95		
100	PI2 BPSK	135	0			16.97	18.0	0.0
100	PI2 BPSK	135	69			16.94	18.0	0.0
100	PI2 BPSK	135	138			16.96		
100	PI2 BPSK	270	0			16.95		
100	QPSK	1	1			17.02		
100	QPSK	1	137			17.02	18.0	0.0
100	QPSK	1	271			16.98		
100	QPSK	135	0			17.00	18.0	0.0
100	QPSK	135	69			17.04	18.0	0.0
100	QPSK	135	138			16.95		
100	QPSK	270	0			17.02	18.0	0.0
100	16QAM	1	1			17.05	18.0	0.0
100	16QAM	1	1			16.96	18.0	0.0
100	256QAM	1	1			17.01	18.0	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.92	17.00	16.92	18.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.03	17.01	16.87	18.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.98	17.02	16.99	18.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.01	17.01	16.91	18.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.93	16.95	16.97	18.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.97	17.02	16.91	18.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.94	16.95	16.86	18.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.98	16.94	16.88	18.0	0.0
Channel				630300	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.5		
15	QPSK	1	1	16.94	16.93	16.88	18.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	16.91	16.95	16.91	18.0	0.0



Part270 n78 Ant5 PC3&PC2 EC13								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3750	3750		
Frequency (MHz)				17.12	17.12	17.12		
100	Pl2 BPSK	1	1		17.12	17.12		
100	Pl2 BPSK	1	137		17.03	17.03	18.0	0.0
100	Pl2 BPSK	1	271		17.11	17.11		
100	Pl2 BPSK	135	0		17.12	17.12	18.0	0.0
100	Pl2 BPSK	135	69		17.05	17.05	18.0	0.0
100	Pl2 BPSK	135	138		17.03	17.03	18.0	0.0
100	Pl2 BPSK	270	0		17.09	17.09		
100	QPSK	1	1		17.05	17.05	18.0	0.0
100	QPSK	1	137		17.14	17.14		
100	QPSK	1	271		17.11	17.11		
100	QPSK	135	0		17.09	17.09	18.0	0.0
100	QPSK	135	69		17.11	17.11	18.0	0.0
100	QPSK	135	138		17.07	17.07	18.0	0.0
100	QPSK	270	0		17.10	17.10		
100	16QAM	1	1		17.07	17.07	18.0	0.0
100	64QAM	1	1		17.07	17.07	18.0	0.0
100	256QAM	1	1		17.06	17.06	18.0	0.0
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dB)	
90	QPSK	1	1	16.98	17.05	16.95	18.0	0.0
Channel				64934	65000	65068	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dB)	
80	QPSK	1	1	17.22	17.03	17.03	18.0	0.0
Channel				64900	65000	65100	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dB)	
70	QPSK	1	1	17.06	17.07	17.06	18.0	0.0
Channel				64868	65000	65134	Tune-up limit	MPR
Frequency (MHz)				3730.69	3750	3770.01	(dB)	
60	QPSK	1	1	17.01	17.06	17.02	18.0	0.0
Channel				64834	65000	65168	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dB)	
50	QPSK	1	1	17.04	17.13	17.02	18.0	0.0
Channel				64800	65000	65200	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dB)	
40	QPSK	1	1	16.97	17.03	17.06	18.0	0.0
Channel				64768	65000	65234	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dB)	
30	QPSK	1	1	16.95	17.07	16.97	18.0	0.0
Channel				64734	65000	65268	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dB)	
20	QPSK	1	1	17.05	17.02	16.93	18.0	0.0
Channel				64718	65000	65234	Tune-up limit	MPR
Frequency (MHz)				3707.62	3750	3791.01	(dB)	
15	QPSK	1	1	16.95	17.06	17.03	18.0	0.0
Channel				64700	65000	65300	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dB)	
10	QPSK	1	1	17.05	17.02	17.05	18.0	0.0

Part27Q n78 Ant5 PC3&PC2 EC13								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3500.01	3500.01	3500.01		
Frequency (MHz)				17.10	17.10	17.10		
100	Pl2 BPSK	1	1		17.10	17.10		
100	Pl2 BPSK	1	137		17.09	17.09	18.0	0.0
100	Pl2 BPSK	1	271		17.07	17.07		
100	Pl2 BPSK	135	0		17.03	17.03	18.0	0.0
100	Pl2 BPSK	135	69		17.12	17.12	18.0	0.0
100	Pl2 BPSK	135	138		17.04	17.04	18.0	0.0
100	Pl2 BPSK	270	0		17.03	17.03		
100	QPSK	1	1		17.06	17.06	18.0	0.0
100	QPSK	1	137		17.13	17.13		
100	QPSK	1	271		17.06	17.06		
100	QPSK	135	0		17.06	17.06	18.0	0.0
100	QPSK	135	69		17.09	17.09	18.0	0.0
100	QPSK	135	138		17.06	17.06	18.0	0.0
100	QPSK	270	0		17.06	17.06		
100	16QAM	1	1		17.04	17.04	18.0	0.0
100	64QAM	1	1		17.03	17.03	18.0	0.0
100	256QAM	1	1		17.10	17.10	18.0	0.0
Channel				63300	63334	63368	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dB)	
90	QPSK	1	1	16.98	17.01	17.01	18.0	0.0
Channel				63268	63334	63400	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dB)	
80	QPSK	1	1	17.00	17.02	17.02	18.0	0.0
Channel				63234	63334	63434	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dB)	
70	QPSK	1	1	17.06	17.08	16.89	18.0	0.0
Channel				63200	63334	63468	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dB)	
60	QPSK	1	1	17.06	17.02	16.98	18.0	0.0
Channel				63168	63334	63500	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dB)	
50	QPSK	1	1	16.96	17.10	17.00	18.0	0.0
Channel				63134	63334	63534	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)	
40	QPSK	1	1	16.99	17.10	16.96	18.0	0.0
Channel				63100	63334	63568	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dB)	
30	QPSK	1	1	17.07	17.01	16.89	18.0	0.0
Channel				63068	63334	63600	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dB)	
20	QPSK	1	1	16.99	17.08	16.98	18.0	0.0
Channel				63050	63334	63618	Tune-up limit	MPR
Frequency (MHz)				3457.6	3500.01	3545.02	(dB)	
15	QPSK	1	1	16.98	17.03	16.98	18.0	0.0
Channel				63034	63334	63634	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dB)	
10	QPSK	1	1	17.04	17.02	16.96	18.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.28	19.36	19.11		
100	PI/2 BPSK	1	137	19.26	19.31	19.12	20.0	0.0
100	PI/2 BPSK	1	271	19.25	19.41	19.20		
100	PI/2 BPSK	135	0	19.20	19.31	19.20	20.0	0.0
100	PI/2 BPSK	135	69	19.17	19.40	19.21	20.0	0.0
100	PI/2 BPSK	135	138	19.19	19.30	19.22	20.0	0.0
100	PI/2 BPSK	270	0	19.24	19.32	19.17		
100	QPSK	1	1	19.20	19.30	19.22		
100	QPSK	1	137	19.20	19.42	19.16	20.0	0.0
100	QPSK	1	271	19.28	19.30	19.09		
100	QPSK	135	0	19.19	19.36	19.20	20.0	0.0
100	QPSK	135	69	19.16	19.41	19.14	20.0	0.0
100	QPSK	135	138	19.20	19.29	19.16	20.0	0.0
100	QPSK	270	0	19.15	19.36	19.13		
100	16QAM	1	1	19.24	19.35	19.13	20.0	0.0
100	64QAM	1	1	19.17	19.33	19.23	20.0	0.0
100	256QAM	1	1	18.44	18.54	18.41	20.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.05	19.24	18.97	20.0	0.0
Channel				507204	518598	529996	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2533.02	2592.99	2649.98		
80	QPSK	1	1	18.98	19.25	18.92	20.0	0.0
Channel				506202	518598	531900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.03	19.29	18.96	20.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	18.96	19.17	19.02	20.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.05	19.21	18.93	20.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.04	19.21	19.02	20.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.03	19.25	18.94	20.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.98	19.26	18.93	20.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	19.07	19.29	19.02	20.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.05	19.24	18.93	20.0	0.0



Part270 n77 Ant8 PC3&PC2 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	15.21	15.29	15.07			
100	PI2 BPSK	1	137	15.19	15.28	15.15			
100	PI2 BPSK	1	271	15.22	15.31	15.20			
100	PI2 BPSK	138	0	15.15	15.34	15.14	16.5	0.0	
100	PI2 BPSK	138	69	15.28	15.28	15.21	16.5	0.0	
100	PI2 BPSK	138	138	15.25	15.21	15.13	16.5	0.0	
100	PI2 BPSK	270	0	15.23	15.21	15.15			
100	QPSK	1	1	15.26	15.29	15.16			
100	QPSK	1	137	15.25	15.35	15.10	16.5	0.0	
100	QPSK	1	271	15.25	15.27	15.12			
100	QPSK	138	0	15.25	15.32	15.12	16.5	0.0	
100	QPSK	138	69	15.15	15.33	15.18	16.5	0.0	
100	QPSK	138	138	15.25	15.32	15.15	16.5	0.0	
100	QPSK	270	0	15.25	15.32	15.10			
100	16QAM	1	1	15.28	15.27	15.08	16.5	0.0	
100	16QAM	1	1	15.27	15.27	15.19	16.5	0.0	
100	256QAM	1	1	15.16	15.31	15.18	16.5	0.0	
Channel									
Frequency (MHz)				64866	65000	65234	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	15.13	15.28	15.00	16.5	0.0	
Channel									
Frequency (MHz)				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.23	15.33	15.02	16.5	0.0	
Channel									
Frequency (MHz)				64900	65000	65000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	15.23	15.26	14.99	16.5	0.0	
Channel									
Frequency (MHz)				64868	65000	65334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	15.23	15.28	15.10	16.5	0.0	
Channel									
Frequency (MHz)				64834	65000	65068	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	15.15	15.31	14.98	16.5	0.0	
Channel									
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.17	15.29	15.09	16.5	0.0	
Channel									
Frequency (MHz)				64768	65000	65434	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.18	15.24	14.99	16.5	0.0	
Channel									
Frequency (MHz)				64734	65000	65468	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.14	15.21	14.99	16.5	0.0	
Channel									
Frequency (MHz)				64718	65000	65494	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.14	15.25	14.98	16.5	0.0	
Channel									
Frequency (MHz)				64700	65000	65500	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.15	15.33	15.10	16.5	0.0	

Part27Q n77 Ant8 PC3&PC2 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	15.21	15.34	15.31			
100	PI2 BPSK	1	137	15.40	15.40	15.31	16.5	0.0	
100	PI2 BPSK	1	271	15.38	15.38	15.31			
100	PI2 BPSK	138	0	15.35	15.35	15.31	16.5	0.0	
100	PI2 BPSK	138	69	15.35	15.35	15.31	16.5	0.0	
100	PI2 BPSK	138	138	15.32	15.32	15.31	16.5	0.0	
100	PI2 BPSK	270	0	15.32	15.32	15.31			
100	QPSK	1	1	15.40	15.40	15.41			
100	QPSK	1	137	15.48	15.48	15.41	16.5	0.0	
100	QPSK	1	271	15.41	15.41	15.41			
100	QPSK	138	0	15.37	15.37	15.41	16.5	0.0	
100	QPSK	138	69	15.42	15.42	15.41	16.5	0.0	
100	QPSK	138	138	15.41	15.41	15.41	16.5	0.0	
100	QPSK	270	0	15.31	15.31	15.31			
100	16QAM	1	1	15.37	15.37	15.41	16.5	0.0	
100	16QAM	1	1	15.40	15.40	15.41	16.5	0.0	
100	256QAM	1	1	15.43	15.43	15.43	16.5	0.0	
Channel									
Frequency (MHz)				63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	15.42	15.41	15.38	16.5	0.0	
Channel									
Frequency (MHz)				64868	63334	63400	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.37	15.34	15.10	16.5	0.0	
Channel									
Frequency (MHz)				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	15.32	15.34	15.18	16.5	0.0	
Channel									
Frequency (MHz)				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	15.33	15.40	15.22	16.5	0.0	
Channel									
Frequency (MHz)				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	15.37	15.34	15.25	16.5	0.0	
Channel									
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.41	15.38	15.13	16.5	0.0	
Channel									
Frequency (MHz)				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.42	15.29	15.15	16.5	0.0	
Channel									
Frequency (MHz)				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.41	15.32	15.19	16.5	0.0	
Channel									
Frequency (MHz)				63050	63334	63618	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.33	15.35	15.24	16.5	0.0	
Channel									
Frequency (MHz)				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.27	15.28	15.24	16.5	0.0	

Part27O n78 Ant8 PC3&PC2 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	15.46	15.46	15.46			
100	PI2 BPSK	1	137	15.47	15.47	15.47	16.5	0.0	
100	PI2 BPSK	1	271	15.43	15.43	15.43			
100	PI2 BPSK	138	0	15.43	15.43	15.43	16.5	0.0	
100	PI2 BPSK	138	69	15.35	15.35	15.35	16.5	0.0	
100	PI2 BPSK	138	138	15.42	15.42	15.42	16.5	0.0	
100	PI2 BPSK	270	0	15.41	15.41	15.41			
100	QPSK	1	1	15.39	15.39	15.39			
100	QPSK	1	137	15.50	15.50	15.50	16.5	0.0	
100	QPSK	1	271	15.35	15.35	15.35			
100	QPSK	138	0	15.36	15.36	15.36	16.5	0.0	
100	QPSK	138	69	15.48	15.48	15.48	16.5	0.0	
100	QPSK	138	138	15.48	15.48	15.48	16.5	0.0	
100	QPSK	270	0	15.44	15.44	15.44			
100	16QAM	1	1	15.38	15.38	15.38	16.5	0.0	
100	16QAM	1	1	15.37	15.37	15.37	16.5	0.0	
100	256QAM	1	1	15.37	15.37	15.37	16.5	0.0	
Channel									
Frequency (MHz)				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	15.35	15.42	15.36	16.5	0.0	
Channel									
Frequency (MHz)				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.24	15.37	15.27	16.5	0.0	
Channel									
Frequency (MHz)				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	15.23	15.28	15.28	16.5	0.0	
Channel									
Frequency (MHz)				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	15.23	15.30	15.29	16.5	0.0	
Channel									
Frequency (MHz)				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	15.27	15.38	15.30	16.5	0.0	
Channel									
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.32	15.32	15.28	16.5	0.0	
Channel									
Frequency (MHz)				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.27	15.32	15.31	16.5	0.0	
Channel									
Frequency (MHz)				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.23	15.41	15.33	16.5	0.0	
Channel									
Frequency (MHz)				64718	65000	65284	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.31	15.37	15.34	16.5	0.0	
Channel									
Frequency (MHz)				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.27	15.33	15.29	16.5	0.0	



Part27Q n78 Ant8 PC3&PC2 ECI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				633334	633334		
Frequency (MHz)				3500.01			
100	PI2 BPSK	1	1	15.33			
100	PI2 BPSK	1	137	15.33			16.5
100	PI2 BPSK	1	271	15.35			16.5
100	PI2 BPSK	135	0	15.33			16.5
100	PI2 BPSK	135	69	15.35			16.5
100	PI2 BPSK	135	138	15.39			16.5
100	PI2 BPSK	270	0	15.33			16.5
100	QPSK	1	1	15.41			16.5
100	QPSK	1	137	15.46			16.5
100	QPSK	1	271	15.42			16.5
100	QPSK	135	0	15.40			16.5
100	QPSK	135	69	15.45			16.5
100	QPSK	135	138	15.40			16.5
100	QPSK	270	0	15.31			16.5
100	16QAM	1	1	15.34			16.5
100	64QAM	1	1	15.40			16.5
100	256QAM	1	1	15.36			16.5
Channel				633000	633334	633668	
Frequency (MHz)				3495	3500.01	3505.02	
90	QPSK	1	1	15.31	15.43	15.23	16.5
Channel				632668	633334	634000	
Frequency (MHz)				3490.02	3500.01	3510	
80	QPSK	1	1	15.17	15.33	15.00	16.5
Channel				632334	633334	634334	
Frequency (MHz)				3488.01	3500.01	3515.01	
70	QPSK	1	1	15.28	15.41	15.15	16.5
Channel				632000	633334	634668	
Frequency (MHz)				3480	3500.01	3520.02	
60	QPSK	1	1	15.20	15.40	15.16	16.5
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	1	15.22	15.36	15.21	16.5
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	1	15.23	15.38	15.00	16.5
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	1	15.16	15.29	15.00	16.5
Channel				630668	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	1	15.17	15.30	15.17	16.5
Channel				630300	633334	636168	
Frequency (MHz)				3457.5	3500.01	3542.5	
15	QPSK	1	1	15.23	15.36	15.22	16.5
Channel				630334	633334	636334	
Frequency (MHz)				3455.01	3500.01	3545.01	
10	QPSK	1	1	15.20	15.30	15.10	16.5



ECI6 Power

n2 ECI6 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				373000	376000	379000			
Frequency (MHz)				189.5	190	190.5			
30	PI/2 BPSK	1	1	19.29	19.39	19.24			
30	PI/2 BPSK	1	80	19.52	19.62	19.57	20.5	0.0	
30	PI/2 BPSK	1	158	19.40	19.42	19.38			
30	PI/2 BPSK	80	0	19.62	19.61	19.52	20.5	0.0	
30	PI/2 BPSK	80	40	19.47	19.64	19.45	20.5	0.0	
30	PI/2 BPSK	80	80	19.57	19.62	19.58	20.5	0.0	
30	PI/2 BPSK	160	0	19.58	19.69	19.65			
30	QPSK	1	1	19.27	19.45	19.38			
30	QPSK	1	80	19.59	19.70	19.65	20.5	0.0	
30	QPSK	1	158	19.45	19.45	19.42			
30	QPSK	80	0	19.66	19.67	19.63	20.5	0.0	
30	QPSK	80	40	19.60	19.68	19.56	20.5	0.0	
30	QPSK	80	80	19.61	19.63	19.60	20.5	0.0	
30	QPSK	160	0	19.65	19.69	19.67			
30	16QAM	1	1	19.17	19.28	19.20	20.5	0.0	
30	16QAM	1	1	19.11	19.31	19.19	20.5	0.0	
30	256QAM	1	1	19.76	19.82	19.78	19.5	1.0	
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1880	1897.5			
25	QPSK	1	1	19.33	19.42	19.33	20.5	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1900	1900	1900			
20	QPSK	1	1	19.28	19.39	19.37	20.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1897.5	1880	1892.5			
15	QPSK	1	1	19.26	19.40	19.30	20.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1895	1880	1905			
10	QPSK	1	1	19.32	19.43	19.38	20.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1880	1907.5			
5	QPSK	1	1	19.29	19.42	19.32	20.5	0.0	

n5 ECI6 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					167300				
Frequency (MHz)					836.5				
25	PI/2 BPSK	1	1		22.62				
25	PI/2 BPSK	1	67		22.85		24.0	0.0	
25	PI/2 BPSK	1	131		22.65				
25	PI/2 BPSK	64	0		22.28		23.5	0.5	
25	PI/2 BPSK	64	35		22.87		24.0	0.0	
25	PI/2 BPSK	64	69		22.30		23.5	0.5	
25	PI/2 BPSK	128	0		22.34				
25	QPSK	1	1		22.57				
25	QPSK	1	67		22.92		24.0	0.0	
25	QPSK	1	131		22.50				
25	QPSK	64	0		21.74		23.0	1.0	
25	QPSK	64	35		22.85		24.0	0.0	
25	QPSK	64	69		21.78		23.0	1.0	
25	QPSK	128	0		21.83		23.0	1.0	
25	16QAM	1	1		21.32		23.0	1.0	
25	16QAM	1	1		20.00		21.5	2.5	
25	256QAM	1	1		19.53		19.5	4.5	
Channel					166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					834	836.5	838		
20	QPSK	1	1		22.84	22.89	22.73	24.0	0.0
Channel					166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					831.5	835.5	841.5		
15	QPSK	1	1		22.77	22.86	22.75	24.0	0.0
Channel					165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					829	835.5	844		
10	QPSK	1	1		22.82	22.88	22.75	24.0	0.0
Channel					165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					826.5	835.5	846.5		
5	QPSK	1	1		22.79	22.80	22.75	24.0	0.0

n12 ECI6 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	PI/2 BPSK	1	1	22.84	22.98	22.75			
15	PI/2 BPSK	1	40	22.75	22.83	22.71	24.0	0.0	
15	PI/2 BPSK	1	77	22.73	22.80	22.71			
15	PI/2 BPSK	36	0	22.56	22.65	22.52	23.5	0.5	
15	PI/2 BPSK	36	25	22.69	22.81	22.70	24.0	0.0	
15	PI/2 BPSK	36	43	22.54	22.61	22.50	23.5	0.5	
15	PI/2 BPSK	75	0	22.88	22.64	22.61			
15	QPSK	1	1	22.87	22.92	22.81			
15	QPSK	1	40	22.83	22.87	22.77	24.0	0.0	
15	QPSK	1	77	22.72	22.81	22.68			
15	QPSK	36	0	22.04	22.12	22.08	23.0	1.0	
15	QPSK	36	22	22.82	22.85	22.77	24.0	0.0	
15	QPSK	36	43	22.92	22.97	21.94	23.0	1.0	
15	QPSK	75	0	22.05	22.13	22.00			
15	16QAM	1	1	21.72	21.76	21.69	23.0	1.0	
15	16QAM	1	1	20.11	20.22	20.18	21.5	2.5	
15	256QAM	1	1	19.70	19.83	19.77	19.5	4.5	
Channel				140900	141500	142100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.82	22.85	22.72	24.0	0.0	
Channel				140500	141000	142100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.72	22.80	22.67	24.0	0.0	



n14 ECI6 Ant0							
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	PI2 BPSK	1	1	22.57	22.57	22.57	0.0
10	PI2 BPSK	1	25	22.53	22.53	22.53	0.0
10	PI2 BPSK	1	50	22.50	22.50	22.50	0.0
10	PI2 BPSK	25	0	22.12	22.12	22.12	0.5
10	PI2 BPSK	25	14	22.26	22.26	22.26	0.0
10	PI2 BPSK	25	27	22.07	22.07	22.07	0.5
10	PI2 BPSK	50	0	22.14	22.14	22.14	0.5
10	QPSK	1	1	22.64	22.64	22.64	0.0
10	QPSK	1	26	22.59	22.59	22.59	0.0
10	QPSK	1	50	22.55	22.55	22.55	0.0
10	QPSK	25	0	21.73	21.73	21.73	1.0
10	QPSK	25	14	22.60	22.60	22.60	0.0
10	QPSK	25	27	21.86	21.86	21.86	1.0
10	QPSK	50	0	21.78	21.78	21.78	1.0
10	16QAM	1	1	21.36	21.36	21.36	1.0
10	64QAM	1	1	19.91	19.91	19.91	2.5
10	256QAM	1	1	18.43	18.43	18.43	4.5
Channel				159.100	159.000	159.100	MPR (dB)
Frequency (MHz)				790.5	793	795.5	MPR (dB)
5	QPSK	1	1	22.53	22.52	22.49	0.0

n25 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
45	PI2 BPSK	1	1	19.69	19.69	19.69	0.0
45	PI2 BPSK	1	61	19.51	19.59	19.52	0.0
45	PI2 BPSK	1	121	18.89	19.01	18.78	0.0
45	PI2 BPSK	121	0	19.48	19.53	19.37	0.0
45	PI2 BPSK	121	61	19.38	19.56	19.52	0.0
45	PI2 BPSK	121	121	19.60	19.54	19.48	0.0
45	PI2 BPSK	242	0	19.49	19.65	19.49	0.0
45	QPSK	1	1	18.82	18.87	18.96	0.0
45	QPSK	1	61	19.56	19.71	19.59	0.0
45	QPSK	1	121	18.89	18.94	18.83	0.0
45	QPSK	121	0	19.62	19.61	19.58	0.0
45	QPSK	121	61	19.67	19.69	19.60	0.0
45	QPSK	121	121	19.51	19.61	19.60	0.0
45	QPSK	242	0	19.56	19.73	19.51	0.0
45	16QAM	1	1	18.64	18.69	18.69	0.0
45	64QAM	1	1	18.71	18.87	18.77	0.0
45	256QAM	1	1	18.27	18.41	18.28	1.0
Channel				374000	376500	379000	MPR (dB)
Frequency (MHz)				1870	1882.5	1895	MPR (dB)
40	QPSK	1	1	19.54	19.68	19.56	0.0
Channel				372500	376500	379500	MPR (dB)
Frequency (MHz)				1865	1882.5	1900	MPR (dB)
35	QPSK	1	1	19.47	19.64	19.55	0.0
Channel				373000	376500	380000	MPR (dB)
Frequency (MHz)				1866	1882.5	1900	MPR (dB)
30	QPSK	1	1	19.46	19.66	19.61	0.0
Channel				372500	376500	380500	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1902.5	MPR (dB)
25	QPSK	1	1	19.59	19.72	19.51	0.0
Channel				372000	376500	381000	MPR (dB)
Frequency (MHz)				1860	1882.5	1905	MPR (dB)
20	QPSK	1	1	19.46	19.72	19.58	0.0
Channel				371500	376500	381500	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5	MPR (dB)
15	QPSK	1	1	19.49	19.70	19.60	0.0
Channel				371000	376500	382000	MPR (dB)
Frequency (MHz)				1854	1882.5	1910	MPR (dB)
10	QPSK	1	1	19.55	19.72	19.59	0.0
Channel				370500	376500	382500	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5	MPR (dB)
5	QPSK	1	1	19.59	19.64	19.61	0.0

n26 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
20	PI2 BPSK	1	1	22.74	22.81	22.76	0.0
20	PI2 BPSK	1	53	22.63	22.68	22.67	0.0
20	PI2 BPSK	1	104	22.61	22.71	22.67	0.0
20	PI2 BPSK	50	0	22.20	22.25	22.21	0.5
20	PI2 BPSK	50	28	22.76	22.80	22.71	0.0
20	PI2 BPSK	50	56	22.20	22.31	22.19	0.5
20	PI2 BPSK	100	0	22.23	22.37	22.28	0.5
20	QPSK	1	1	22.60	22.91	22.62	0.0
20	QPSK	1	53	22.69	22.75	22.68	0.0
20	QPSK	1	104	22.62	22.69	22.59	0.0
20	QPSK	50	0	21.81	21.84	21.81	1.0
20	QPSK	50	28	22.78	22.87	22.80	0.0
20	QPSK	50	56	21.86	21.80	21.71	1.0
20	QPSK	100	0	21.84	21.88	21.81	1.0
20	16QAM	1	1	21.36	21.43	21.30	1.0
20	64QAM	1	1	19.95	20.06	19.99	2.5
20	256QAM	1	1	18.51	18.62	18.57	4.5
Channel				164300	166300	168300	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	MPR (dB)
15	QPSK	1	1	22.74	22.82	22.73	0.0
Channel				163500	166500	166500	MPR (dB)
Frequency (MHz)				819	831.5	844	MPR (dB)
10	QPSK	1	1	22.68	22.78	22.67	0.0
Channel				163300	166300	169300	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	MPR (dB)
5	QPSK	1	1	22.74	22.87	22.75	0.0



n66 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	351000			
Frequency (MHz)				1722.5	1745	1727.5			
45	PI2 BPSK	1	1	19.74	19.85	19.62			
45	PI2 BPSK	1	61	20.34	20.35	20.27	21.5	0.0	
45	PI2 BPSK	1	121	19.64	19.69	19.65			
45	PI2 BPSK	121	0	20.05	20.13	20.03	21.5	0.0	
45	PI2 BPSK	121	61	20.20	20.32	20.29	21.5	0.0	
45	PI2 BPSK	121	121	19.93	20.08	19.93	21.5	0.0	
45	PI2 BPSK	242	0	20.04	20.10	20.08			
45	QPSK	1	1	19.74	19.78	19.77	21.5	0.0	
45	QPSK	1	61	20.28	20.35	20.35			
45	QPSK	1	121	19.59	19.75	19.73			
45	QPSK	121	0	20.25	20.32	20.34	21.5	0.0	
45	QPSK	121	61	20.31	20.35	20.29	21.5	0.0	
45	QPSK	121	121	20.28	20.33	20.27	21.5	0.0	
45	QPSK	242	0	20.17	20.33	20.32			
45	16QAM	1	1	20.15	20.34	20.33	21.5	0.0	
45	64QAM	1	1	19.53	19.66	19.64	21.5	0.0	
45	256QAM	1	1	18.34	18.37	18.33	19.5	2.0	
Channel				345000	349000	352000	Tune-up limit	MPR	
Frequency (MHz)				1730	1745	1760	(dBm)		
40	QPSK	1	1	19.99	20.16	20.00	21.5	0.0	
Channel				345000	349000	350000	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1725.5	(dBm)		
35	QPSK	1	1	19.92	20.09	20.08	21.5	0.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)		
25	QPSK	1	1	19.94	20.10	19.89	21.5	0.0	
Channel				346000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1730	1745	1770	(dBm)		
20	QPSK	1	1	20.04	20.10	20.01	21.5	0.0	
Channel				345000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)		
15	QPSK	1	1	20.00	20.08	20.08	21.5	0.0	
Channel				345000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1716	1745	1771	(dBm)		
10	QPSK	1	1	20.00	20.17	20.07	21.5	0.0	
Channel				345000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)		
5	QPSK	1	1	19.92	20.08	19.98	21.5	0.0	

n70 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340000	345000	341000			
Frequency (MHz)				1700	1702.5	1705			
15	PI2 BPSK	1	1	21.00					
15	PI2 BPSK	1	40	20.76			22.0	0.0	
15	PI2 BPSK	1	77	20.86					
15	PI2 BPSK	36	0	20.52			22.0	0.0	
15	PI2 BPSK	36	22	20.85			22.0	0.0	
15	PI2 BPSK	36	43	20.47			22.0	0.0	
15	PI2 BPSK	75	0	20.50					
15	QPSK	1	1	21.02			22.0	0.0	
15	QPSK	1	40	20.89					
15	QPSK	1	77	20.79			22.0	0.0	
15	QPSK	36	0	20.15			22.0	0.0	
15	QPSK	36	22	20.97			22.0	0.0	
15	QPSK	36	43	20.15			22.0	0.0	
15	QPSK	75	0	20.18			22.0	0.0	
15	16QAM	1	1	20.07			22.0	0.0	
15	64QAM	1	1	20.03			21.5	0.5	
15	256QAM	1	1	18.86			18.5	2.5	
Channel				340000	345000	341000	Tune-up limit	MPR	
Frequency (MHz)				1700	1702.5	1705	(dBm)		
10	QPSK	1	1	20.08	20.07	20.03	22.0	0.0	
Channel				339000	345000	341000	Tune-up limit	MPR	
Frequency (MHz)				1697.5	1702.5	1707.5	(dBm)		
5	QPSK	1	1	20.09	20.05	20.09	22.0	0.0	

n71 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	680.5	686			
20	PI2 BPSK	1	1	22.92	23.04	22.97			
20	PI2 BPSK	1	53	22.84	22.91	22.78	24.0	0.0	
20	PI2 BPSK	1	104	22.73	22.83	22.79			
20	PI2 BPSK	50	0	22.45	22.52	22.40	23.5	0.5	
20	PI2 BPSK	50	28	22.94	23.02	22.96	24.0	0.0	
20	PI2 BPSK	50	56	22.48	22.52	22.38	23.5	0.5	
20	PI2 BPSK	100	0	22.50	22.58	22.52			
20	QPSK	1	1	23.07	23.11	23.01	24.0	0.0	
20	QPSK	1	53	22.90	22.95	22.83			
20	QPSK	1	104	22.88	22.76	22.82			
20	QPSK	50	0	21.85	21.94	21.82	23.0	1.0	
20	QPSK	50	28	23.00	23.07	22.96	24.0	0.0	
20	QPSK	50	56	21.98	22.00	21.91			
20	QPSK	100	0	22.01	22.04	21.97	23.0	1.0	
20	16QAM	1	1	21.60	21.66	21.55	23.0	1.0	
20	64QAM	1	1	20.07	20.13	20.00	21.5	2.5	
20	256QAM	1	1	18.61	18.70	18.62	18.5	4.5	
Channel				134100	136100	138100	Tune-up limit	MPR	
Frequency (MHz)				670.5	680.5	690.5	(dBm)		
15	QPSK	1	1	22.95	23.05	22.98	24.0	0.0	
Channel				133900	136100	139900	Tune-up limit	MPR	
Frequency (MHz)				668	680.5	699	(dBm)		
10	QPSK	1	1	22.93	23.01	22.97	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit	MPR	
Frequency (MHz)				665	680.5	685.5	(dBm)		
5	QPSK	1	1	22.92	23.08	22.96	24.0	0.0	



n7 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	22.13	22.16	22.03			
50	PI/2 BPSK	1	135	22.07	22.10	21.91	23.0	0.0	
50	PI/2 BPSK	1	268	21.80	21.81	21.86			
50	PI/2 BPSK	135	0	21.68	21.75	21.69	23.0	0.0	
50	PI/2 BPSK	135	68	22.00	22.10	22.02	23.0	0.0	
50	PI/2 BPSK	135	135	21.57	21.64	21.54			
50	PI/2 BPSK	270	0	21.46	21.64	21.68	23.0	0.0	
50	QPSK	1	1	22.19	22.24	22.17			
50	QPSK	1	135	22.12	22.12	22.01	23.0	0.0	
50	QPSK	1	268	21.77	21.82	21.88			
50	QPSK	135	0	21.17	21.25	21.01	23.0	0.0	
50	QPSK	135	68	22.08	22.21	21.98	23.0	0.0	
50	QPSK	135	135	21.01	21.06	21.06			
50	QPSK	270	0	21.01	21.17	21.04	23.0	0.0	
50	16QAM	1	1	21.78	21.84	21.72	23.0	0.0	
50	64QAM	1	1	20.25	20.37	20.22	21.5	1.5	
50	256QAM	1	1	18.89	18.92	18.84	19.5	3.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	23.0	0.0	
40	QPSK	1	1	22.04	22.18	22.01	23.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	22.08	22.23	21.97	23.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	21.99	22.23	22.03	23.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	22.07	22.16	21.95	23.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.07	22.16	21.91	23.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.12	22.19	21.93	23.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.11	22.17	21.96	23.0	0.0	

n30 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000	462000	462000			
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		23.22				
10	PI/2 BPSK	1	26		23.16		24.0	0.0	
10	PI/2 BPSK	1	50		22.86				
10	PI/2 BPSK	25	0		22.79		23.5	0.5	
10	PI/2 BPSK	25	14		23.18		24.0	0.0	
10	PI/2 BPSK	25	27		22.53				
10	PI/2 BPSK	50	0		22.61		23.5	0.5	
10	QPSK	1	1		23.28				
10	QPSK	1	26		23.19		24.0	0.0	
10	QPSK	1	50		22.95				
10	QPSK	25	0		22.24		23.0	1.0	
10	QPSK	25	14		23.21		24.0	0.0	
10	QPSK	25	27		22.05				
10	QPSK	50	0		22.12		23.0	1.0	
10	16QAM	1	1		22.06		23.0	1.0	
10	64QAM	1	1		20.39		21.5	2.5	
10	256QAM	1	1		18.89		19.5	4.5	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	23.15	23.22	23.12	24.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				505000	518598	526000		
100	PI2 BPSK	1	1	21.27	21.35	21.28	23.0	0.0
100	PI2 BPSK	1	137	22.28	22.21	22.17		
100	PI2 BPSK	1	271	21.15	21.23	21.20		
100	PI2 BPSK	135	0	21.88	21.88	21.82	22.5	0.5
100	PI2 BPSK	135	69	22.16	22.20	22.23	23.0	0.0
100	PI2 BPSK	135	138	21.59	21.71	21.57	22.5	0.5
100	PI2 BPSK	270	0	21.62	21.69	21.68		
100	QPSK	1	1	21.31	21.34	21.35		
100	QPSK	1	137	22.27	22.38	22.20	23.0	0.0
100	QPSK	1	271	21.13	21.16	21.16		
100	QPSK	135	0	21.28	21.28	21.30	23.0	0.0
100	QPSK	135	69	22.22	22.24	22.11	23.0	0.0
100	QPSK	135	138	21.14	21.20	21.19	23.0	0.0
100	QPSK	270	0	21.13	21.26	21.03		
100	16QAM	1	1	22.27	22.16	22.06	23.0	0.0
100	16QAM	1	1	22.17	22.18	22.05	23.0	0.0
100	256QAM	1	1	17.30	17.38	17.38	22.5	0.5
Channel								
Frequency (MHz)				508000	518598	526998		
90	QPSK	1	1	22.29	22.30	22.08	23.0	0.0
Channel								
Frequency (MHz)				507000	518598	526998		
80	QPSK	1	1	22.18	22.35	22.03	23.0	0.0
Channel								
Frequency (MHz)				506000	518598	531000		
70	QPSK	1	1	22.29	22.35	22.13	23.0	0.0
Channel								
Frequency (MHz)				505000	518598	531998		
80	QPSK	1	1	22.20	22.31	22.03	23.0	0.0
Channel								
Frequency (MHz)				503000	518598	530998		
50	QPSK	1	1	22.19	22.34	22.01	23.0	0.0
Channel								
Frequency (MHz)				502000	518598	529998		
40	QPSK	1	1	22.21	22.27	22.05	23.0	0.0
Channel								
Frequency (MHz)				502000	518598	534998		
30	QPSK	1	1	22.28	22.25	22.07	23.0	0.0
Channel								
Frequency (MHz)				501000	518598	535998		
20	QPSK	1	1	22.25	22.24	22.08	23.0	0.0
Channel								
Frequency (MHz)				500000	518598	536998		
15	QPSK	1	1	22.24	22.34	22.03	23.0	0.0
Channel								
Frequency (MHz)				500000	518598	537000		
10	QPSK	1	1	22.20	22.28	22.11	23.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000	650000	662000		
100	PI2 BPSK	1	1	19.12	19.22	19.17		
100	PI2 BPSK	1	137	19.98	20.03	19.96	21.0	0.0
100	PI2 BPSK	1	271	19.05	19.11	19.05		
100	PI2 BPSK	135	0	19.84	19.97	19.90	21.0	0.0
100	PI2 BPSK	135	69	19.94	20.04	19.98	21.0	0.0
100	PI2 BPSK	135	138	19.80	19.88	19.82	21.0	0.0
100	PI2 BPSK	270	0	19.81	19.95	19.88		
100	QPSK	1	1	19.34	19.37	19.19		
100	QPSK	1	137	20.08	20.28	20.01	21.0	0.0
100	QPSK	1	271	18.91	19.02	18.97		
100	QPSK	135	0	19.88	20.00	19.87	21.0	0.0
100	QPSK	135	69	20.17	20.21	19.56	21.0	0.0
100	QPSK	135	138	19.87	19.96	19.81	21.0	0.0
100	QPSK	270	0	19.91	20.07	19.84		
100	16QAM	1	1	19.01	19.08	18.94	21.0	0.0
100	16QAM	1	1	18.86	19.01	18.94	21.0	0.0
100	256QAM	1	1	18.10	18.14	17.99	19.5	1.5
Channel								
Frequency (MHz)				648668	650000	662334		
90	QPSK	1	1	20.03	20.24	19.97	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	662668		
80	QPSK	1	1	20.01	20.21	19.93	21.0	0.0
Channel								
Frequency (MHz)				649000	650000	663000		
70	QPSK	1	1	20.04	20.23	19.91	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	663334		
80	QPSK	1	1	20.02	20.20	19.90	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	663668		
50	QPSK	1	1	20.01	20.25	19.96	21.0	0.0
Channel								
Frequency (MHz)				648000	650000	664000		
40	QPSK	1	1	19.98	20.16	19.90	21.0	0.0
Channel								
Frequency (MHz)				647668	650000	664334		
30	QPSK	1	1	19.96	20.14	19.91	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	20.01	20.15	19.94	21.0	0.0
Channel								
Frequency (MHz)				647000	650000	665000		
15	QPSK	1	1	19.97	20.18	19.95	21.0	0.0
Channel								
Frequency (MHz)				646668	650000	665334		
10	QPSK	1	1	19.94	20.19	19.88	21.0	0.0

Part270 n77 Ant1 PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000	650000	662000		
100	PI2 BPSK	1	1	19.68	19.74	19.62		
100	PI2 BPSK	1	137	20.51	20.47	20.44	21.0	0.0
100	PI2 BPSK	1	271	19.51	19.80	19.51		
100	PI2 BPSK	135	0	20.38	20.41	20.35	21.0	0.0
100	PI2 BPSK	135	69	20.46	20.52	20.48	21.0	0.0
100	PI2 BPSK	135	138	20.35	20.37	20.35	21.0	0.0
100	PI2 BPSK	270	0	20.38	20.46	20.35		
100	QPSK	1	1	19.81	19.77	19.75		
100	QPSK	1	137	20.58	20.78	20.51	21.0	0.0
100	QPSK	1	271	19.34	19.48	19.43		
100	QPSK	135	0	20.39	20.45	20.41	21.0	0.0
100	QPSK	135	69	20.67	20.74	20.59	21.0	0.0
100	QPSK	135	138	20.44	20.52	20.25	21.0	0.0
100	QPSK	270	0	20.34	20.58	20.41		
100	16QAM	1	1	19.53	19.86	19.50	21.0	0.0
100	16QAM	1	1	19.40	19.53	19.46	21.0	0.0
100	256QAM	1	1	18.23	18.33	18.34	19.5	1.5
Channel								
Frequency (MHz)				648668	650000	662334		
90	QPSK	1	1	20.39	20.45	20.37	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	662668		
80	QPSK	1	1	20.33	20.49	20.30	21.0	0.0
Channel								
Frequency (MHz)				649000	650000	663000		
70	QPSK	1	1	20.34	20.53	20.34	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	663334		
80	QPSK	1	1	20.32	20.40	20.30	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	663668		
50	QPSK	1	1	20.34	20.43	20.28	21.0	0.0
Channel								
Frequency (MHz)				648000	650000	664000		
40	QPSK	1	1	20.43	20.44	20.28	21.0	0.0
Channel								
Frequency (MHz)				647668	650000	664334		
30	QPSK	1	1	20.38	20.45	20.25	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	20.41	20.47	20.34	21.0	0.0
Channel								
Frequency (MHz)				647000	650000	665000		
15	QPSK	1	1	20.40	20.52	20.29	21.0	0.0
Channel								
Frequency (MHz)				646668	650000	665334		
10	QPSK	1	1	20.32	20.48	20.29	21.0	0.0



Part27Q n77 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
63000.01								
100	Pi2 BPSK	1	1	19.26				
100	Pi2 BPSK	1	137	20.28				
100	Pi2 BPSK	1	271	19.41			21.0	0.0
100	Pi2 BPSK	135	0	20.12			21.0	0.0
100	Pi2 BPSK	135	69	20.24			21.0	0.0
100	Pi2 BPSK	135	138	20.19			21.0	0.0
100	Pi2 BPSK	270	0	20.11			21.0	0.0
100	QPSK	1	1	19.33				
100	QPSK	1	137	20.34			21.0	0.0
100	QPSK	1	271	19.46				
100	QPSK	135	0	20.15			21.0	0.0
100	QPSK	135	69	20.26			21.0	0.0
100	QPSK	135	138	20.16			21.0	0.0
100	QPSK	270	0	20.08			21.0	0.0
100	16QAM	1	1	19.18			21.0	0.0
100	16QAM	1	1	19.15			21.0	0.0
100	256QAM	1	1	18.21			19.5	1.5
Channel								
Frequency (MHz)								
63300.01								
90	QPSK	1	1	20.11	20.19	20.16	21.0	0.0
Channel								
Frequency (MHz)								
63600.01								
80	QPSK	1	1	20.13	20.24	20.17	21.0	0.0
Channel								
Frequency (MHz)								
63900.01								
70	QPSK	1	1	20.20	20.27	20.19	21.0	0.0
Channel								
Frequency (MHz)								
64200.01								
60	QPSK	1	1	20.21	20.29	20.20	21.0	0.0
Channel								
Frequency (MHz)								
64500.01								
50	QPSK	1	1	20.12	20.31	20.12	21.0	0.0
Channel								
Frequency (MHz)								
64800.01								
40	QPSK	1	1	20.14	20.21	20.19	21.0	0.0
Channel								
Frequency (MHz)								
65100.01								
30	QPSK	1	1	20.11	20.20	20.14	21.0	0.0
Channel								
Frequency (MHz)								
65400.01								
20	QPSK	1	1	20.14	20.29	20.19	21.0	0.0
Channel								
Frequency (MHz)								
65700.01								
15	QPSK	1	1	20.14	20.29	20.18	21.0	0.0
Channel								
Frequency (MHz)								
66000.01								
10	QPSK	1	1	20.21	20.30	20.20	21.0	0.0

Part27Q n77 Ant1 PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
63334								
100	Pi2 BPSK	1	1	19.71				
100	Pi2 BPSK	1	137	20.72				
100	Pi2 BPSK	1	271	19.90			21.0	0.0
100	Pi2 BPSK	135	0	20.08			21.0	0.0
100	Pi2 BPSK	135	69	20.79			21.0	0.0
100	Pi2 BPSK	135	138	20.05			21.0	0.0
100	Pi2 BPSK	270	0	20.62			21.0	0.0
100	QPSK	1	1	19.98				
100	QPSK	1	137	20.98			21.0	0.0
100	QPSK	1	271	19.98				
100	QPSK	135	0	20.59			21.0	0.0
100	QPSK	135	69	20.82			21.0	0.0
100	QPSK	135	138	20.58			21.0	0.0
100	QPSK	270	0	20.84			21.0	0.0
100	16QAM	1	1	19.84			21.0	0.0
100	16QAM	1	1	19.80			21.0	0.0
100	256QAM	1	1	18.73			19.5	1.5
Channel								
Frequency (MHz)								
63634								
90	QPSK	1	1	20.05	20.63	20.60	21.0	0.0
Channel								
Frequency (MHz)								
63934								
80	QPSK	1	1	20.63	20.76	20.84	21.0	0.0
Channel								
Frequency (MHz)								
64234								
70	QPSK	1	1	20.56	20.63	20.68	21.0	0.0
Channel								
Frequency (MHz)								
64534								
60	QPSK	1	1	20.62	20.68	20.72	21.0	0.0
Channel								
Frequency (MHz)								
64834								
50	QPSK	1	1	20.68	20.70	20.87	21.0	0.0
Channel								
Frequency (MHz)								
65134								
40	QPSK	1	1	20.57	20.63	20.81	21.0	0.0
Channel								
Frequency (MHz)								
65434								
30	QPSK	1	1	20.55	20.72	20.84	21.0	0.0
Channel								
Frequency (MHz)								
65734								
20	QPSK	1	1	20.58	20.62	20.87	21.0	0.0
Channel								
Frequency (MHz)								
66034								
15	QPSK	1	1	20.60	20.75	20.89	21.0	0.0
Channel								
Frequency (MHz)								
66334								
10	QPSK	1	1	20.59	20.65	20.84	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
65000								
100	Pi2 BPSK	1	1	19.37				
100	Pi2 BPSK	1	137	20.31				
100	Pi2 BPSK	1	271	19.29			21.0	0.0
100	Pi2 BPSK	135	0	20.14			21.0	0.0
100	Pi2 BPSK	135	69	20.31			21.0	0.0
100	Pi2 BPSK	135	138	20.09			21.0	0.0
100	Pi2 BPSK	270	0	20.03			21.0	0.0
100	QPSK	1	1	19.42				
100	QPSK	1	137	20.37			21.0	0.0
100	QPSK	1	271	19.33				
100	QPSK	135	0	20.19			21.0	0.0
100	QPSK	135	69	20.33			21.0	0.0
100	QPSK	135	138	20.14			21.0	0.0
100	QPSK	270	0	20.06			21.0	0.0
100	16QAM	1	1	19.21			21.0	0.0
100	16QAM	1	1	19.15			21.0	0.0
100	256QAM	1	1	18.27			19.5	1.5
Channel								
Frequency (MHz)								
64668								
90	QPSK	1	1	20.29	20.32	20.21	21.0	0.0
Channel								
Frequency (MHz)								
64968								
80	QPSK	1	1	20.25	20.30	20.24	21.0	0.0
Channel								
Frequency (MHz)								
65268								
70	QPSK	1	1	20.20	20.33	20.16	21.0	0.0
Channel								
Frequency (MHz)								
65568								
60	QPSK	1	1	20.26	20.32	20.17	21.0	0.0
Channel								
Frequency (MHz)								
65868								
50	QPSK	1	1	20.25	20.28	20.21	21.0	0.0
Channel								
Frequency (MHz)								
66168								
40	QPSK	1	1	20.20	20.26	20.19	21.0	0.0
Channel								
Frequency (MHz)								
66468								
30	QPSK	1	1	20.28	20.22	20.20	21.0	0.0
Channel								
Frequency (MHz)								
66768								
20	QPSK	1	1	20.24	20.25	20.21	21.0	0.0
Channel								
Frequency (MHz)								
67068								
15	QPSK	1	1	20.30	20.30	20.25	21.0	0.0
Channel								
Frequency (MHz)								
67368								
10	QPSK	1	1	20.25	20.32	20.22	21.0	0.0



Part270 n78 Ant1 PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)								
100	PI2 BPSK	1	1	19.61				
100	PI2 BPSK	1	137	20.49			21.0	0.0
100	PI2 BPSK	1	271	19.55				
100	PI2 BPSK	135	0	20.34			21.0	0.0
100	PI2 BPSK	135	69	20.53			21.0	0.0
100	PI2 BPSK	135	138	20.26			21.0	0.0
100	PI2 BPSK	270	0	20.18				
100	QPSK	1	1	19.62			21.0	0.0
100	QPSK	1	137	20.55				
100	QPSK	1	271	19.48				
100	QPSK	135	0	20.42			21.0	0.0
100	QPSK	135	69	20.58			21.0	0.0
100	QPSK	135	138	20.27			21.0	0.0
100	QPSK	270	0	20.26				
100	16QAM	1	1	19.36			21.0	0.0
100	64QAM	1	1	19.34			21.0	0.0
100	256QAM	1	1	18.43			19.5	1.5
Channel				64968	65000	65034	Tune-up limit (dB)	MPR
Frequency (MHz)								
90	QPSK	1	1	20.47	20.48	20.47	21.0	0.0
Channel				65334	65000	65068	Tune-up limit (dB)	MPR
Frequency (MHz)								
80	QPSK	1	1	20.48	20.46	20.45	21.0	0.0
Channel				65000	65000	65100	Tune-up limit (dB)	MPR
Frequency (MHz)								
70	QPSK	1	1	20.44	20.49	20.38	21.0	0.0
Channel				64968	65000	65134	Tune-up limit (dB)	MPR
Frequency (MHz)								
60	QPSK	1	1	20.49	20.45	20.44	21.0	0.0
Channel				64834	65000	65168	Tune-up limit (dB)	MPR
Frequency (MHz)								
50	QPSK	1	1	20.51	20.51	20.42	21.0	0.0
Channel				65000	65000	65100	Tune-up limit (dB)	MPR
Frequency (MHz)								
40	QPSK	1	1	20.52	20.53	20.38	21.0	0.0
Channel				64768	65000	65234	Tune-up limit (dB)	MPR
Frequency (MHz)								
30	QPSK	1	1	20.52	20.51	20.40	21.0	0.0
Channel				64734	65000	65068	Tune-up limit (dB)	MPR
Frequency (MHz)								
20	QPSK	1	1	20.44	20.47	20.45	21.0	0.0
Channel				64768	65000	65234	Tune-up limit (dB)	MPR
Frequency (MHz)								
15	QPSK	1	1	20.54	20.52	20.47	21.0	0.0
Channel				64700	65000	65060	Tune-up limit (dB)	MPR
Frequency (MHz)								
10	QPSK	1	1	20.48	20.54	20.46	21.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				63334				
Frequency (MHz)								
100	PI2 BPSK	1	1	19.18				
100	PI2 BPSK	1	137	20.06			21.0	0.0
100	PI2 BPSK	1	271	19.48				
100	PI2 BPSK	135	0	19.64			21.0	0.0
100	PI2 BPSK	135	69	19.79			21.0	0.0
100	PI2 BPSK	135	138	19.92			21.0	0.0
100	PI2 BPSK	270	0	19.74				
100	QPSK	1	1	19.24			21.0	0.0
100	QPSK	1	137	20.13				
100	QPSK	1	271	19.92				
100	QPSK	135	0	19.69			21.0	0.0
100	QPSK	135	69	20.08			21.0	0.0
100	QPSK	135	138	19.97			21.0	0.0
100	QPSK	270	0	19.95				
100	16QAM	1	1	18.83			21.0	0.0
100	64QAM	1	1	18.79			21.0	0.0
100	256QAM	1	1	18.25			19.5	1.5
Channel				63300	63334	63368	Tune-up limit (dB)	MPR
Frequency (MHz)								
90	QPSK	1	1	20.04	20.06	19.99	21.0	0.0
Channel				63508	63334	63400	Tune-up limit (dB)	MPR
Frequency (MHz)								
80	QPSK	1	1	19.99	20.01	19.92	21.0	0.0
Channel				63294	63334	63434	Tune-up limit (dB)	MPR
Frequency (MHz)								
70	QPSK	1	1	19.96	20.07	19.87	21.0	0.0
Channel				63200	63334	63468	Tune-up limit (dB)	MPR
Frequency (MHz)								
60	QPSK	1	1	20.04	20.01	19.93	21.0	0.0
Channel				63168	63334	63500	Tune-up limit (dB)	MPR
Frequency (MHz)								
50	QPSK	1	1	20.01	20.08	19.85	21.0	0.0
Channel				63134	63334	63534	Tune-up limit (dB)	MPR
Frequency (MHz)								
40	QPSK	1	1	20.00	20.03	19.86	21.0	0.0
Channel				63100	63334	63568	Tune-up limit (dB)	MPR
Frequency (MHz)								
30	QPSK	1	1	19.99	19.98	19.86	21.0	0.0
Channel				63068	63334	63600	Tune-up limit (dB)	MPR
Frequency (MHz)								
20	QPSK	1	1	19.97	20.09	19.84	21.0	0.0
Channel				63030	63334	63634	Tune-up limit (dB)	MPR
Frequency (MHz)								
15	QPSK	1	1	19.96	19.99	19.93	21.0	0.0
Channel				63000	63334	63668	Tune-up limit (dB)	MPR
Frequency (MHz)								
10	QPSK	1	1	19.97	20.04	19.89	21.0	0.0

Part27Q n78 Ant1 PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				63334				
Frequency (MHz)								
100	PI2 BPSK	1	1	19.42				
100	PI2 BPSK	1	137	20.38			21.0	0.0
100	PI2 BPSK	1	271	19.82				
100	PI2 BPSK	135	0	19.87			21.0	0.0
100	PI2 BPSK	135	69	20.11			21.0	0.0
100	PI2 BPSK	135	138	20.19			21.0	0.0
100	PI2 BPSK	270	0	20.04				
100	QPSK	1	1	19.50			21.0	0.0
100	QPSK	1	137	20.45				
100	QPSK	1	271	19.87				
100	QPSK	135	0	19.97			21.0	0.0
100	QPSK	135	69	20.38			21.0	0.0
100	QPSK	135	138	20.20			21.0	0.0
100	QPSK	270	0	20.21				
100	16QAM	1	1	19.15			21.0	0.0
100	64QAM	1	1	19.14			21.0	0.0
100	256QAM	1	1	18.25			19.5	1.5
Channel				63300	63334	63368	Tune-up limit (dB)	MPR
Frequency (MHz)								
90	QPSK	1	1	20.38	20.35	20.13	21.0	0.0
Channel				63508	63334	63400	Tune-up limit (dB)	MPR
Frequency (MHz)								
80	QPSK	1	1	20.38	20.31	20.15	21.0	0.0
Channel				63294	63334	63434	Tune-up limit (dB)	MPR
Frequency (MHz)								
70	QPSK	1	1	20.37	20.38	20.16	21.0	0.0
Channel				63200	63334	63468	Tune-up limit (dB)	MPR
Frequency (MHz)								
60	QPSK	1	1	20.30	20.32	20.20	21.0	0.0
Channel				63168	63334	63500	Tune-up limit (dB)	MPR
Frequency (MHz)								
50	QPSK	1	1	20.35	20.33	20.24	21.0	0.0
Channel				63134	63334	63534	Tune-up limit (dB)	MPR
Frequency (MHz)								
40	QPSK	1	1	20.30	20.36	20.16	21.0	0.0
Channel				63100	63334	63568	Tune-up limit (dB)	MPR
Frequency (MHz)								
30	QPSK	1	1	20.33	20.37	20.23	21.0	0.0
Channel				63068	63334	63600	Tune-up limit (dB)	MPR
Frequency (MHz)								
20	QPSK	1	1	20.32	20.37	20.25	21.0	0.0
Channel				63030	63334	63634	Tune-up limit (dB)	MPR
Frequency (MHz)								
15	QPSK	1	1	20.32	20.42	20.25	21.0	0.0
Channel				63000	63334	63668	Tune-up limit (dB)	MPR
Frequency (MHz)								
10	QPSK	1	1	20.29	20.39	20.17	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505202	518598	526000			
Frequency (MHz)				2648.01	2662.99	2640			
100	Pi2 BPSK	1	1	22.16	22.27	22.10			
100	Pi2 BPSK	1	137	23.35	23.51	23.29	24.0	0.0	
100	Pi2 BPSK	1	271	22.23	22.30	22.27			
100	Pi2 BPSK	135	0	23.33	23.34	23.31	24.0	0.0	
100	Pi2 BPSK	135	69	23.28	23.36	23.27	24.0	0.0	
100	Pi2 BPSK	135	138	23.22	23.35	23.23	24.0	0.0	
100	Pi2 BPSK	270	0	23.31	23.40	23.18			
100	QPSK	1	1	21.97	22.34	22.72	24.0	0.0	
100	QPSK	1	137	23.30	23.53	23.13	24.0	0.0	
100	QPSK	1	271	22.26	22.20	22.19			
100	QPSK	135	0	23.19	23.46	23.10	24.0	0.0	
100	QPSK	135	69	23.31	23.47	23.30	24.0	0.0	
100	QPSK	135	138	23.09	23.22	23.19	24.0	0.0	
100	QPSK	270	0	23.05	23.36	23.09			
100	16QAM	1	1	22.08	22.17	22.04	24.0	0.0	
100	16QAM	1	1	22.05	22.07	22.02	24.0	0.0	
100	256QAM	1	1	21.12	21.31	21.19	22.5	1.5	
Channel				508300	518598	526996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98	24.0	0.0	
90	QPSK	1	1	23.13	23.45	23.10	24.0	0.0	
Channel				507204	518598	526996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2562.99	2649.98	24.0	0.0	
80	QPSK	1	1	23.23	23.38	23.06	24.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2562.99	2658.98	24.0	0.0	
70	QPSK	1	1	23.18	23.39	23.13	24.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2562.99	2668.98	24.0	0.0	
60	QPSK	1	1	23.15	23.50	23.08	24.0	0.0	
Channel				502204	518598	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.98	24.0	0.0	
50	QPSK	1	1	23.25	23.46	23.15	24.0	0.0	
Channel				501202	518598	533996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2670	24.0	0.0	
40	QPSK	1	1	23.21	23.42	23.12	24.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2674.98	24.0	0.0	
30	QPSK	1	1	23.23	23.38	23.07	24.0	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2562.99	2678.98	24.0	0.0	
20	QPSK	1	1	23.21	23.39	23.14	24.0	0.0	
Channel				500200	518598	536996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.01	2562.99	2682.48	24.0	0.0	
15	QPSK	1	1	23.24	23.38	23.11	24.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2562.99	2685	24.0	0.0	
10	QPSK	1	1	23.15	23.43	23.10	24.0	0.0	

Part270 n77 Ant2 PC3&PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3790	3840	3860			
100	Pi2 BPSK	1	1	14.84	14.93	14.83			
100	Pi2 BPSK	1	137	15.65	15.78	15.70	16.5	0.0	
100	Pi2 BPSK	1	271	14.76	14.73	14.70			
100	Pi2 BPSK	135	0	15.53	15.71	15.67	16.5	0.0	
100	Pi2 BPSK	135	69	15.77	15.76	15.71	16.5	0.0	
100	Pi2 BPSK	135	138	15.54	15.56	15.48	16.5	0.0	
100	Pi2 BPSK	270	0	15.53	15.68	15.59			
100	QPSK	1	1	15.03	15.05	14.77	16.5	0.0	
100	QPSK	1	137	15.77	15.94	15.80	16.5	0.0	
100	QPSK	1	271	14.74	14.82	14.75			
100	QPSK	135	0	15.65	15.73	15.61	16.5	0.0	
100	QPSK	135	69	15.70	15.82	15.76	16.5	0.0	
100	QPSK	135	138	15.56	15.68	15.56	16.5	0.0	
100	QPSK	270	0	15.67	15.76	15.54			
100	16QAM	1	1	14.84	14.75	14.71	16.5	0.0	
100	16QAM	1	1	14.82	14.68	14.61	16.5	0.0	
100	256QAM	1	1	14.78	14.82	14.73	16.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	16.5	0.0	
90	QPSK	1	1	15.57	15.66	15.55	16.5	0.0	
Channel				646334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	16.5	0.0	
80	QPSK	1	1	15.59	15.65	15.57	16.5	0.0	
Channel				646000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.02	3840	3935.01	16.5	0.0	
70	QPSK	1	1	15.58	15.63	15.56	16.5	0.0	
Channel				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3935.01	16.5	0.0	
60	QPSK	1	1	15.57	15.64	15.55	16.5	0.0	
Channel				646334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3935.02	16.5	0.0	
50	QPSK	1	1	15.57	15.63	15.56	16.5	0.0	
Channel				646000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	16.5	0.0	
40	QPSK	1	1	15.59	15.65	15.57	16.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.01	3840	3970.02	16.5	0.0	
30	QPSK	1	1	15.59	15.64	15.56	16.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	16.5	0.0	
20	QPSK	1	1	15.59	15.68	15.54	16.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	16.5	0.0	
15	QPSK	1	1	15.58	15.67	15.57	16.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	16.5	0.0	
10	QPSK	1	1	15.56	15.65	15.56	16.5	0.0	

Part27Q n77 Ant2 PC3&PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	16.5	0.0	
100	Pi2 BPSK	1	1	15.81	15.64	15.60	16.5	0.0	
100	Pi2 BPSK	1	137	15.81	15.64	15.60	16.5	0.0	
100	Pi2 BPSK	1	271	15.81	15.64	15.60	16.5	0.0	
100	Pi2 BPSK	135	0	15.81	15.64	15.60	16.5	0.0	
100	Pi2 BPSK	135	69	15.81	15.64	15.60	16.5	0.0	
100	Pi2 BPSK	135	138	15.81	15.64	15.60	16.5	0.0	
100	Pi2 BPSK	270	0	15.81	15.64	15.60	16.5	0.0	
100	QPSK	1	1	14.99	15.09	14.99	16.5	0.0	
100	QPSK	1	137	15.81	15.64	15.60	16.5	0.0	
100	QPSK	1	271	15.13	15.13	15.13	16.5	0.0	
100	QPSK	135	0	15.40	15.40	15.40	16.5	0.0	
100	QPSK	135	69	15.63	15.63	15.63	16.5	0.0	
100	QPSK	135	138	15.51	15.51	15.51	16.5	0.0	
100	QPSK	270	0	15.58	15.58	15.58	16.5	0.0	
100	16QAM	1	1	14.86	14.86	14.86	16.5	0.0	
100	16QAM	1	1	14.35	14.35	14.35	16.5	0.0	
100	256QAM	1	1	14.54	14.54	14.54	16.5	0.0	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	16.5	0.0	
90	QPSK	1	1	15.61	15.64	15.60	16.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	16.5	0.0	
80	QPSK	1	1	15.60	15.62	15.58	16.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486	3500.01	3503.02	16.5	0.0	
70	QPSK	1	1	15.62	15.62	15.58	16.5	0.0	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3503.02	16.5	0.0	
60	QPSK	1	1	15.60	15.63	15.58	16.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505	16.5	0.0	
50	QPSK	1	1	15.61	15.62	15.58	16.5	0.0	
Channel				631334	633334	635334	Tune-up limit (



Part270 n78 Ant2 PC3&PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000	650000	650000		
				3760	3760	3760		
100	PI2 BPSK	1	1		14.65			
100	PI2 BPSK	1	137		15.51		16.5	0.0
100	PI2 BPSK	1	271		14.63			
100	PI2 BPSK	135	0		15.30		16.5	0.0
100	PI2 BPSK	135	69		15.46		16.5	0.0
100	PI2 BPSK	135	138		15.35		16.5	0.0
100	PI2 BPSK	270	0		15.50			
100	QPSK	1	1		14.55			
100	QPSK	1	137		15.00		16.5	0.0
100	QPSK	1	271		14.54			
100	QPSK	135	0		15.41		16.5	0.0
100	QPSK	135	69		15.45		16.5	0.0
100	QPSK	135	138		15.43		16.5	0.0
100	QPSK	270	0		15.43		16.5	0.0
100	16QAM	1	1		14.58		16.5	0.0
100	64QAM	1	1		14.67		16.5	0.0
100	256QAM	1	1		14.56		16.5	0.0
Channel								
Frequency (MHz)				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745.02	3760	3765.01	16.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3760	3760.02	16.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.41	15.41	15.35	16.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3765	3760	3765	16.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.41	15.42	15.35	16.5	0.0
Channel								
Frequency (MHz)				647668	650000	651334	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	15.40	15.39	15.37	16.5	0.0
Channel								
Frequency (MHz)				647000	650000	651000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.39	15.40	15.35	16.5	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.38	15.40	15.35	16.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.39	15.39	15.36	16.5	0.0
Channel								
Frequency (MHz)				647168	650000	652334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.38	15.42	15.38	16.5	0.0
Channel								
Frequency (MHz)				647000	650000	652000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.39	15.40	15.38	16.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633000	633334	633668		
				3500.01	3500.01	3500.01		
100	PI2 BPSK	1	1		14.16			
100	PI2 BPSK	1	137		15.33		16.5	0.0
100	PI2 BPSK	1	271		15.06			
100	PI2 BPSK	135	0		14.59		16.5	0.0
100	PI2 BPSK	135	69		15.12		16.5	0.0
100	PI2 BPSK	135	138		15.09		16.5	0.0
100	PI2 BPSK	270	0		15.20			
100	QPSK	1	1		14.24			
100	QPSK	1	137		15.43		16.5	0.0
100	QPSK	1	271		15.07			
100	QPSK	135	0		14.73		16.5	0.0
100	QPSK	135	69		15.17		16.5	0.0
100	QPSK	135	138		15.21		16.5	0.0
100	QPSK	270	0		15.15		16.5	0.0
100	16QAM	1	1		15.03		16.5	0.0
100	64QAM	1	1		14.19		16.5	0.0
100	256QAM	1	1		14.18		16.5	0.0
Channel								
Frequency (MHz)				639000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3495	3500.01	3505.02	16.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3460.02	3500.01	3510	16.5	0.0
Channel								
Frequency (MHz)				632000	633334	633668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.20	15.24	15.24	16.5	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
100	QPSK	1	1	3465.01	3500.01	3515.01	16.5	0.0
Channel								
Frequency (MHz)				631668	633334	633000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	15.19	15.27	15.23	16.5	0.0
Channel								
Frequency (MHz)				631000	633334	633668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.22	15.24	15.25	16.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	15.20	15.26	15.24	16.5	0.0
Channel								
Frequency (MHz)				631000	6350.01	3520.02	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.20	15.25	15.24	16.5	0.0
Channel								
Frequency (MHz)				631000	633334	636668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.23	15.25	15.23	16.5	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.20	15.27	15.25	16.5	0.0
Channel								
Frequency (MHz)				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.20	15.27	15.24	16.5	0.0
Channel								
Frequency (MHz)				629334	633334	635334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.20	15.26	15.24	16.5	0.0



n2 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				376000	376000	376000			
Frequency (MHz)				1865	1880	1895			
30	PI/2 BPSK	1	1	20.95	21.02	20.95	22.0	0.0	
30	PI/2 BPSK	1	80	20.81	20.81	20.74			
30	PI/2 BPSK	1	158	20.71	20.78	20.70			
30	PI/2 BPSK	80	0	20.45	20.46	20.53	22.0	0.0	
30	PI/2 BPSK	80	40	20.90	20.97	20.88	22.0	0.0	
30	PI/2 BPSK	80	80	20.40	20.46	20.40	22.0	0.0	
30	PI/2 BPSK	160	0	20.32	20.49	20.40			
30	QPSK	1	1	20.97	21.12	21.04	22.0	0.0	
30	QPSK	1	80	20.97	20.91	20.86			
30	QPSK	1	158	20.71	20.77	20.78			
30	QPSK	80	0	20.09	20.21	20.07	22.0	0.0	
30	QPSK	80	40	21.03	21.07	21.06	22.0	0.0	
30	QPSK	80	80	20.08	20.17	20.08	22.0	0.0	
30	QPSK	160	0	20.04	20.21	20.13			
30	16QAM	1	1	20.72	20.77	20.65	22.0	0.0	
30	64QAM	1	1	19.15	19.29	19.19	20.5	1.5	
30	256QAM	1	1	17.90	17.87	17.72	18.5	3.5	
Channel				372500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	20.09	20.91	20.81	22.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	20.69	20.86	20.88	22.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	20.76	20.86	20.79	22.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	20.70	20.84	20.86	22.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	20.75	20.90	20.85	22.0	0.0	

n5 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				167500	167500	167500			
Frequency (MHz)				836.5					
25	PI/2 BPSK	1	1	22.84					
25	PI/2 BPSK	1	67	22.97			24.0	0.0	
25	PI/2 BPSK	1	131	22.51					
25	PI/2 BPSK	64	0	22.29			23.5	0.5	
25	PI/2 BPSK	64	35	22.80			24.0	0.0	
25	PI/2 BPSK	64	69	22.24					
25	PI/2 BPSK	128	0	22.32			23.5	0.5	
25	QPSK	1	1	22.90					
25	QPSK	1	67	22.64			24.0	0.0	
25	QPSK	1	131	22.93					
25	QPSK	64	0	21.78			23.0	1.0	
25	QPSK	64	35	22.82			24.0	0.0	
25	QPSK	64	69	21.73			23.0	1.0	
25	QPSK	128	0	21.78			23.0	1.0	
25	16QAM	1	1	21.28			23.0	1.0	
25	64QAM	1	1	19.95			21.5	2.5	
25	256QAM	1	1	18.92			19.5	4.5	
Channel				168000	167500	167000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	22.74	22.78	22.68	0.0	0.0	
Channel				168300	167500	166700	Tune-up limit (dBm)	MPR	
Frequency (MHz)				841.5	836.5	841.5			
15	QPSK	1	1	22.75	22.78	22.65	24.0	0.0	
Channel				168600	167500	166600	Tune-up limit (dBm)	MPR	
Frequency (MHz)				849	836.5	844			
10	QPSK	1	1	22.60	22.83	22.66	24.0	0.0	
Channel				168900	167500	166300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				856.5	836.5	846.5			
5	QPSK	1	1	22.78	22.80	22.66	24.0	0.0	

n12 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141700	141700	141700			
Frequency (MHz)				708.5	707.5	708.5			
15	PI/2 BPSK	1	1	22.83	22.92	22.86			
15	PI/2 BPSK	1	40	22.78	22.86	22.75	24.0	0.0	
15	PI/2 BPSK	1	77	22.76	22.80	22.68			
15	PI/2 BPSK	36	0	22.82	22.88	22.58	23.5	0.5	
15	PI/2 BPSK	36	22	22.78	22.89	22.77	24.0	0.0	
15	PI/2 BPSK	36	43	22.47	22.82	22.55			
15	PI/2 BPSK	75	0	22.60	22.66	22.58	23.5	0.5	
15	QPSK	1	1	22.90	22.97	22.86			
15	QPSK	1	40	22.97	22.94	22.80	24.0	0.0	
15	QPSK	1	77	22.73	22.84	22.71			
15	QPSK	36	0	22.15	22.19	22.12	23.0	1.0	
15	QPSK	36	22	22.10	22.82	22.87	24.0	0.0	
15	QPSK	36	43	22.10	22.14	22.00	23.0	1.0	
15	QPSK	75	0	22.10	22.19	22.14			
15	16QAM	1	1	21.72	21.82	21.76	23.0	1.0	
15	64QAM	1	1	20.20	20.31	20.20	21.5	2.5	
15	256QAM	1	1	18.78	18.93	18.80	19.5	4.5	
Channel				142000	141500	141000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.78	22.93	22.80	24.0	0.0	
Channel				142300	141500	141000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.80	22.88	22.75	24.0	0.0	



n66 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	349000	351500			
Frequency (MHz)				1722.5	1745	1767.5			
45	PI2 BPSK	1	1	20.22	20.24	20.10			
45	PI2 BPSK	1	61	20.75	20.84	20.69	22.0	0.0	
45	PI2 BPSK	1	121	20.09	20.07	20.08			
45	PI2 BPSK	121	0	20.12	20.22	20.10	22.0	0.0	
45	PI2 BPSK	121	61	20.78	20.88	20.74	22.0	0.0	
45	PI2 BPSK	121	121	20.05	20.11	20.05	22.0	0.0	
45	PI2 BPSK	242	0	20.13	20.23	20.08			
45	QPSK	1	1	20.04	20.16	20.10			
45	QPSK	1	61	20.74	20.80	20.71	22.0	0.0	
45	QPSK	1	121	20.20	20.27	20.17			
45	QPSK	121	0	20.07	20.16	20.07	22.0	0.0	
45	QPSK	121	61	20.80	20.89	20.77	22.0	0.0	
45	QPSK	121	121	20.16	20.16	20.07	22.0	0.0	
45	QPSK	242	0	20.73	20.84	20.68			
45	16QAM	1	1	20.07	20.03	20.05	22.0	0.0	
45	64QAM	1	1	18.57	18.68	18.56	20.5	1.5	
45	256QAM	1	1	17.26	17.33	17.20	18.5	3.5	
Channel				345500	349000	352500			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	20.11	20.26	20.18	22.0	0.0	
Channel				345500	349000	352500			
Frequency (MHz)				1722.5	1745	1767.5			
35	QPSK	1	1	20.16	20.21	20.16	22.0	0.0	
Channel				345000	349000	353000			
Frequency (MHz)				1722.5	1745	1767.5			
30	QPSK	1	1	20.16	20.21	20.16	22.0	0.0	
Channel				345000	349000	353000			
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	20.13	20.21	20.05	22.0	0.0	
Channel				345000	349000	353000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.21	20.26	20.06	22.0	0.0	
Channel				343000	349000	354000			
Frequency (MHz)				1717.5	1745	1775			
15	QPSK	1	1	20.21	20.16	20.09	22.0	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1712	1745	1775			
10	QPSK	1	1	20.14	20.21	20.07	22.0	0.0	
Channel				342500	349000	355000			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.24	20.26	20.08	22.0	0.0	

n70 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340000	345000	341000			
Frequency (MHz)				1700	1702.5	1705			
15	PI2 BPSK	1	1	21.84					
15	PI2 BPSK	1	40	21.71			23.0	0.0	
15	PI2 BPSK	1	77	21.68					
15	PI2 BPSK	36	0	21.34			22.5	0.5	
15	PI2 BPSK	36	22	21.70			23.0	0.0	
15	PI2 BPSK	36	43	21.36					
15	PI2 BPSK	75	0	21.44			22.5	0.5	
15	QPSK	1	1	21.87					
15	QPSK	1	40	21.79			23.0	0.0	
15	QPSK	1	77	21.73					
15	QPSK	36	0	21.03			22.0	1.0	
15	QPSK	36	22	21.81			23.0	0.0	
15	QPSK	36	43	21.08			22.0	1.0	
15	QPSK	75	0	21.13			22.0	1.0	
15	16QAM	1	1	20.57			22.0	1.0	
15	64QAM	1	1	19.08			20.5	2.5	
15	256QAM	1	1	17.62			18.5	4.5	
Channel				340000	345000	341000			
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	21.69	21.79	21.64	23.0	0.0	
Channel				339500	340500	341500			
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	21.70	21.82	21.72	23.0	0.0	

n71 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134500	136100	137600			
Frequency (MHz)				672	680.5	688			
20	PI2 BPSK	1	1	23.10	23.19	23.07			
20	PI2 BPSK	1	53	22.93	23.01	22.88	24.0	0.0	
20	PI2 BPSK	1	104	22.74	22.87	22.78			
20	PI2 BPSK	50	0	22.54	22.68	22.60	23.5	0.5	
20	PI2 BPSK	50	25	23.12	23.16	23.13	24.0	0.0	
20	PI2 BPSK	50	56	22.59	22.62	22.58			
20	PI2 BPSK	100	0	22.55	22.66	22.61	23.5	0.5	
20	QPSK	1	1	23.23	23.26	23.18			
20	QPSK	1	53	23.06	23.08	22.93	24.0	0.0	
20	QPSK	1	104	22.79	22.83	22.84			
20	QPSK	50	0	22.03	22.15	22.05	23.0	1.0	
20	QPSK	50	25	23.19	23.22	23.15	24.0	0.0	
20	QPSK	50	56	21.91	22.05	22.01	23.0	1.0	
20	QPSK	100	0	22.06	22.11	22.02			
20	16QAM	1	1	21.70	21.77	21.67	23.0	1.0	
20	64QAM	1	1	20.18	20.23	20.11	21.5	2.5	
20	256QAM	1	1	18.75	18.82	18.70	19.5	4.5	
Channel				134500	136100	137600			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	23.09	23.13	23.11	24.0	0.0	
Channel				133900	136100	138600			
Frequency (MHz)				666	680.5	696			
10	QPSK	1	1	23.08	23.21	23.06	24.0	0.0	
Channel				133100	136100	139100			
Frequency (MHz)				663.5	680.5	692.5			
5	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	

n41 Ant4 PC3&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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	18.54	18.55	18.42		
100	PI/2 BPSK	1	137	20.00	19.95	19.96	20.5	0.0
100	PI/2 BPSK	1	271	19.09	19.26	19.18		
100	PI/2 BPSK	135	0	19.06	19.04	19.01	20.5	0.0
100	PI/2 BPSK	135	69	19.76	19.81	19.82	20.5	0.0
100	PI/2 BPSK	135	138	19.20	19.22	19.08		
100	PI/2 BPSK	270	0	19.39	19.54	19.43	20.5	0.0
100	QPSK	1	1	18.31	18.72	18.75		
100	QPSK	1	137	19.55	20.05	19.93	20.5	0.0
100	QPSK	1	271	19.13	19.30	19.23		
100	QPSK	135	0	18.67	18.67	18.64	20.5	0.0
100	QPSK	135	69	19.50	20.09	19.88	20.5	0.0
100	QPSK	135	138	18.73	18.91	18.89		
100	QPSK	270	0	18.56	19.03	19.02	20.5	0.0
100	16QAM	1	1	17.74	17.75	17.68	20.5	0.0
100	64QAM	1	1	19.47	19.52	19.45	20.5	0.0
100	256QAM	1	1	17.58	17.66	17.55	19.5	1.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.57	18.72	18.77	20.5	0.0
Channel				507204	518598	529996		
Frequency (MHz)				2533.02	2592.99	2649.98		
80	QPSK	1	1	18.64	18.72	18.82	20.5	0.0
Channel				506202	518598	531900		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	18.57	18.75	18.80	20.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	18.54	18.73	18.83	20.5	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.58	18.70	18.81	20.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.55	18.63	18.79	20.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.66	18.74	18.75	20.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.64	18.65	18.83	20.5	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	18.59	18.68	18.80	20.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.58	18.65	18.84	20.5	0.0



n48 Ant5 Part96

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3370	3624.99	3679.98		
40	PI2 BPSK	1	1	17.44	17.57	17.46		
40	PI2 BPSK	1	53	17.38	17.52	17.52	19.0	0.0
40	PI2 BPSK	1	104	17.39	17.55	17.44	19.0	0.0
40	PI2 BPSK	50	9	17.39	17.45	17.24	19.0	0.0
40	PI2 BPSK	50	28	17.35	18.03	17.44	19.0	0.0
40	PI2 BPSK	50	56	17.35	17.68	17.50	19.0	0.0
40	PI2 BPSK	100	9	17.35	17.43	17.26	19.0	0.0
40	QPSK	1	1	17.48	17.48	17.41	19.0	0.0
40	QPSK	1	53	17.43	17.53	17.43	19.0	0.0
40	QPSK	1	104	17.34	17.52	17.31	19.0	0.0
40	QPSK	50	9	17.40	17.43	17.25	19.0	0.0
40	QPSK	50	28	17.44	18.09	17.51	19.0	0.0
40	QPSK	50	56	17.34	17.65	17.51	19.0	0.0
40	QPSK	100	9	17.42	17.48	17.32	19.0	0.0
40	16QAM	1	1	17.39	17.40	17.36	19.0	0.0
40	16QAM	1	1	19.31	19.49	19.33	19.0	0.0
40	256QAM	1	1	19.46	19.49	19.47	19.5	0.5
Channel								
Frequency (MHz)				3550.01	3624.99	3690		
20	QPSK	1	1	17.34	17.37	17.37	19.0	0.0
Channel								
Frequency (MHz)				637168	641666	646166		
15	QPSK	1	1	3572.42	3624.99	3692.49	19.0	0.0
Channel								
Frequency (MHz)				637000	641666	646332		
10	QPSK	1	1	17.42	17.41	17.34	19.0	0.0

Part270 n77 Ant5 PC3&PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.62	19.67	19.59		
100	PI2 BPSK	1	137	20.63	20.66	20.67	21.5	0.0
100	PI2 BPSK	1	271	19.49	19.65	19.58		
100	PI2 BPSK	135	61	20.40	20.42	20.33	21.5	0.0
100	PI2 BPSK	135	69	20.61	20.66	20.59	21.5	0.0
100	PI2 BPSK	135	138	20.37	20.44	20.36	21.5	0.0
100	PI2 BPSK	270	0	20.46	20.44	20.32		
100	QPSK	1	1	19.71	19.79	19.67		
100	QPSK	1	137	20.77	20.82	20.58	21.5	0.0
100	QPSK	1	271	19.58	19.69	19.54		
100	QPSK	135	0	20.40	20.42	20.53	21.5	0.0
100	QPSK	135	69	20.61	20.66	20.60	21.5	0.0
100	QPSK	135	138	20.37	20.49	20.34	21.5	0.0
100	QPSK	270	0	20.52	20.61	20.47		
100	16QAM	1	1	19.56	19.72	19.75	21.5	0.0
100	16QAM	1	1	19.55	19.61	19.45	21.5	0.0
100	256QAM	1	1	19.89	20.06	20.05	21.5	0.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.38	20.48	20.54	21.5	0.0
Channel								
Frequency (MHz)				646934	650000	662668		
80	QPSK	1	1	3740.01	3840	3940.02	21.5	0.0
Channel								
Frequency (MHz)				646000	650000	663000		
70	QPSK	1	1	20.34	20.49	20.55	21.5	0.0
Channel								
Frequency (MHz)				646668	650000	663334		
60	QPSK	1	1	20.38	20.53	20.50	21.5	0.0
Channel								
Frequency (MHz)				648334	650000	663668		
50	QPSK	1	1	20.38	20.48	20.56	21.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02		
40	QPSK	1	1	20.40	20.44	20.56	21.5	0.0
Channel								
Frequency (MHz)				647668	650000	664334		
30	QPSK	1	1	3733.02	3840	3953.01	21.5	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	20.35	20.47	20.58	21.5	0.0
Channel								
Frequency (MHz)				647168	650000	664834		
15	QPSK	1	1	20.42	20.45	20.55	21.5	0.0
Channel								
Frequency (MHz)				647000	650000	665000		
10	QPSK	1	1	20.36	20.48	20.54	21.5	0.0

Part270Q n77 Ant5 PC3&PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		19.83			
100	PI2 BPSK	1	137		20.73		21.5	0.0
100	PI2 BPSK	1	271		19.69			
100	PI2 BPSK	135	0		20.76		21.5	0.0
100	PI2 BPSK	135	69		20.71		21.5	0.0
100	PI2 BPSK	135	138		20.58		21.5	0.0
100	PI2 BPSK	270	0		20.53			
100	QPSK	1	1		19.90			
100	QPSK	1	137		20.82		21.5	0.0
100	QPSK	1	271		19.73			
100	QPSK	135	0		20.65		21.5	0.0
100	QPSK	135	69		20.77		21.5	0.0
100	QPSK	135	138		20.63		21.5	0.0
100	QPSK	270	0		20.66			
100	16QAM	1	1		19.81		21.5	0.0
100	16QAM	1	1		19.86		21.5	0.0
100	256QAM	1	1		20.37		21.5	0.0
Channel								
Frequency (MHz)				633900	633334	633668		
90	QPSK	1	1	20.37	20.43	20.52	21.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	3495.02	3500.01	3510	21.5	0.0
Channel								
Frequency (MHz)				632334	633334	634334		
70	QPSK	1	1	20.41	20.53	20.58	21.5	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
60	QPSK	1	1	20.39	20.49	20.60	21.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
50	QPSK	1	1	20.43	20.44	20.51	21.5	0.0
Channel								
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.44	20.45	20.53	21.5	0.0
Channel								
Frequency (MHz)				631000	633334	635668		
30	QPSK	1	1	3465	3500.01	3533.02	21.5	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
20	QPSK	1	1	20.40	20.48	20.61	21.5	0.0
Channel								
Frequency (MHz)				630200	633334	636168		
15	QPSK	1	1	20.41	20.46	20.59	21.5	0.0
Channel								
Frequency (MHz)				630334	633334	636334		
10	QPSK	1	1	20.41	20.44	20.57	21.5	0.0



Part270 n78 Ant5 PC3&PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				19.77	19.77	19.93			
100	Pl2 BPSK	1	1		20.72		21.5	0.0	
100	Pl2 BPSK	1	137		19.82				
100	Pl2 BPSK	135	0		20.87		21.5	0.0	
100	Pl2 BPSK	135	69		20.81		21.5	0.0	
100	Pl2 BPSK	135	138		20.80		21.5	0.0	
100	Pl2 BPSK	270	0		20.48				
100	QPSK	1	1		19.72		21.5	0.0	
100	QPSK	1	137		20.76				
100	QPSK	1	271		19.77				
100	QPSK	135	0		20.71		21.5	0.0	
100	QPSK	135	69		20.67		21.5	0.0	
100	QPSK	135	138		20.80		21.5	0.0	
100	QPSK	270	0		20.54				
100	16QAM	1	1		19.75		21.5	0.0	
100	64QAM	1	1		19.71		21.5	0.0	
100	256QAM	1	1		20.11		21.5	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		20.17	20.26	20.19	21.5	0.0
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		20.12	20.21	20.15	21.5	0.0
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		20.18	20.11	20.12	21.5	0.0
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3750.01			
60	QPSK	1	1		20.17	20.16	20.12	21.5	0.0
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		20.08	20.13	20.14	21.5	0.0
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		20.17	20.09	20.15	21.5	0.0
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		20.23	20.17	20.16	21.5	0.0
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		20.15	20.18	20.13	21.5	0.0
Channel				647168	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.62	3750	3792.61			
15	QPSK	1	1		20.15	20.14	20.09	21.5	0.0
Channel				647000	65000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		20.18	20.17	20.20	21.5	0.0

Part27Q n78 Ant5 PC3&PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01	3500.01	3500.01			
Frequency (MHz)				19.89	19.89	19.89			
100	Pl2 BPSK	1	1		20.68		21.5	0.0	
100	Pl2 BPSK	1	137		19.75				
100	Pl2 BPSK	135	0		20.77		21.5	0.0	
100	Pl2 BPSK	135	69		20.55		21.5	0.0	
100	Pl2 BPSK	135	138		20.53		21.5	0.0	
100	Pl2 BPSK	270	0		20.67				
100	QPSK	1	1		19.89		21.5	0.0	
100	QPSK	1	137		20.84				
100	QPSK	1	271		19.92				
100	QPSK	135	0		20.78		21.5	0.0	
100	QPSK	135	69		20.77		21.5	0.0	
100	QPSK	135	138		20.83		21.5	0.0	
100	QPSK	270	0		20.58				
100	16QAM	1	1		19.77		21.5	0.0	
100	64QAM	1	1		19.66		21.5	0.0	
100	256QAM	1	1		20.23		21.5	0.0	
Channel				63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		20.16	20.22	20.14	21.5	0.0
Channel				63268	63334	63400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		20.10	20.29	20.09	21.5	0.0
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		20.14	20.32	20.12	21.5	0.0
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		20.18	20.30	20.16	21.5	0.0
Channel				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		20.14	20.27	20.15	21.5	0.0
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		20.14	20.23	20.19	21.5	0.0
Channel				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		20.16	20.25	20.15	21.5	0.0
Channel				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		20.11	20.23	20.19	21.5	0.0
Channel				63034	63334	63638	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.6	3500.01	3545.62			
15	QPSK	1	1		20.15	20.28	20.19	21.5	0.0
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		20.13	20.26	20.09	21.5	0.0



n41 Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	20.64	20.71	20.57			
100	PI/2 BPSK	1	137	21.79	21.87	21.77	23.0	0.0	
100	PI/2 BPSK	1	271	20.81	20.85	20.78			
100	PI/2 BPSK	135	0	21.69	21.73	21.63	23.0	0.0	
100	PI/2 BPSK	135	69	21.68	21.80	21.73	23.0	0.0	
100	PI/2 BPSK	135	138	21.62	21.68	21.55	23.0	0.0	
100	PI/2 BPSK	270	0	21.66	21.74	21.62			
100	QPSK	1	1	20.11	20.75	20.67			
100	QPSK	1	137	21.64	21.93	21.77	23.0	0.0	
100	QPSK	1	271	20.83	20.92	20.85			
100	QPSK	135	0	21.74	21.80	21.73	23.0	0.0	
100	QPSK	135	69	21.56	21.85	21.73	23.0	0.0	
100	QPSK	135	138	21.66	21.71	21.56	23.0	0.0	
100	QPSK	270	0	21.51	21.78	21.64			
100	16QAM	1	1	20.57	20.64	20.52	23.0	0.0	
100	64QAM	1	1	20.52	20.57	20.48	23.0	0.0	
100	256QAM	1	1	19.69	19.73	19.70	21.5	1.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.54	21.80	21.62	23.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	21.50	21.81	21.63	23.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.51	21.88	21.68	23.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.54	21.83	21.70	23.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.60	21.79	21.62	23.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.59	21.89	21.72	23.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.50	21.78	21.68	23.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.57	21.87	21.66	23.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	21.53	21.89	21.68	23.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	21.54	21.85	21.66	23.0	0.0	

n41 Ant7 PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.76	22.87	22.80			
100	PI/2 BPSK	1	137	23.86	23.97	23.92	25.0	0.0	
100	PI/2 BPSK	1	271	22.73	22.84	22.77			
100	PI/2 BPSK	135	0	23.28	23.41	23.32	25.0	0.0	
100	PI/2 BPSK	135	69	23.81	23.95	23.83	25.0	0.0	
100	PI/2 BPSK	135	138	23.16	23.27	23.21	25.0	0.0	
100	PI/2 BPSK	270	0	23.26	23.36	23.24			
100	QPSK	1	1	22.78	22.94	22.88			
100	QPSK	1	137	23.92	24.05	23.86	25.0	0.0	
100	QPSK	1	271	22.83	22.92	22.82			
100	QPSK	135	0	22.85	22.94	22.87	25.0	0.0	
100	QPSK	135	69	23.87	23.98	23.92	25.0	0.0	
100	QPSK	135	138	22.83	22.76	22.70	25.0	0.0	
100	QPSK	270	0	23.02	23.11	23.09			
100	16QAM	1	1	22.06	22.18	22.13	25.0	0.0	
100	64QAM	1	1	20.35	20.46	20.39	23.5	1.5	
100	256QAM	1	1	17.14	17.24	17.11	21.5	3.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.70	23.85	23.63	25.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	23.68	23.87	23.63	25.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.71	23.80	23.68	25.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.72	23.83	23.62	25.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.68	23.87	23.67	25.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.68	23.86	23.62	25.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.72	23.81	23.63	25.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.68	23.86	23.66	25.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	23.74	23.81	23.62	25.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	23.73	23.83	23.63	25.0	0.0	



Part270 n77 Ant8 PC3&PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.26	18.44	18.54			
100	PI2 BPSK	1	137	19.24	19.29	19.19			0.0
100	PI2 BPSK	1	271	18.18	18.34	18.26			20.0
100	PI2 BPSK	135	0	18.93	19.10	18.96			20.0
100	PI2 BPSK	135	69	19.10	19.20	19.10			20.0
100	PI2 BPSK	135	138	18.98	18.98	18.95			20.0
100	PI2 BPSK	270	0	18.97	19.08	18.97			20.0
100	QPSK	1	1	18.29	18.41	18.36			20.0
100	QPSK	1	137	19.27	19.33	19.32			20.0
100	QPSK	1	271	18.36	18.36	18.31			20.0
100	QPSK	135	0	18.96	19.22	18.98			20.0
100	QPSK	135	69	19.17	19.27	19.24			20.0
100	QPSK	135	138	18.08	18.11	18.89			20.0
100	QPSK	270	0	19.17	19.20	19.07			20.0
100	16QAM	1	1	18.52	18.68	18.51			20.0
100	16QAM	1	1	18.67	18.74	18.61			20.0
100	256QAM	1	1	18.69	18.82	18.71			20.0
Channel									
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.23	19.31	19.08	20.0	0.0	
Channel									
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.24	19.31	19.09	20.0	0.0	
Channel									
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.22	19.28	19.45	20.0	0.0	
Channel									
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.12	19.23	19.08	20.0	0.0	
Channel									
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.23	19.27	19.05	20.0	0.0	
Channel									
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.19	19.24	19.17	20.0	0.0	
Channel									
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.23	19.29	19.07	20.0	0.0	
Channel									
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.12	19.31	19.13	20.0	0.0	
Channel									
Frequency (MHz)				647168	656000	664934	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.17	19.24	19.09	20.0	0.0	
Channel									
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.24	19.30	19.17	20.0	0.0	

Part27Q n77 Ant8 PC3&PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	18.26	18.54	18.54			
100	PI2 BPSK	1	137	19.39	19.39	19.39			0.0
100	PI2 BPSK	1	271	18.35	18.35	18.35			20.0
100	PI2 BPSK	135	0	19.23	19.23	19.23			20.0
100	PI2 BPSK	135	69	19.40	19.40	19.40			20.0
100	PI2 BPSK	135	138	19.19	19.19	19.19			20.0
100	PI2 BPSK	270	0	19.30	19.30	19.30			20.0
100	QPSK	1	1	18.62	18.62	18.62			20.0
100	QPSK	1	137	19.42	19.42	19.42			20.0
100	QPSK	1	271	18.43	18.43	18.43			20.0
100	QPSK	135	0	19.26	19.26	19.26			20.0
100	QPSK	135	69	19.41	19.41	19.41			20.0
100	QPSK	135	138	18.21	18.21	18.21			20.0
100	QPSK	270	0	19.30	19.30	19.30			20.0
100	16QAM	1	1	18.65	18.65	18.65			20.0
100	16QAM	1	1	18.73	18.73	18.73			20.0
100	256QAM	1	1	18.74	18.74	18.74			20.0
Channel									
Frequency (MHz)				633800	633334	633668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.36	19.36	19.33	20.0	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.32	19.35	19.30	20.0	0.0	
Channel									
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.33	19.32	19.34	20.0	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.33	19.34	19.36	20.0	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.30	19.39	19.34	20.0	0.0	
Channel									
Frequency (MHz)				3470.01	3500.01	3530.02	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.35	19.40	19.35	20.0	0.0	
Channel									
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.35	19.34	19.35	20.0	0.0	
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.37	19.36	19.28	20.0	0.0	
Channel									
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.34	19.41	19.33	20.0	0.0	
Channel									
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.40	19.34	19.28	20.0	0.0	

Part270 n78 Ant8 PC3&PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	18.26	18.60	18.60			
100	PI2 BPSK	1	137	19.28	19.28	19.28			0.0
100	PI2 BPSK	1	271	18.47	18.47	18.47			20.0
100	PI2 BPSK	135	0	19.10	19.10	19.10			20.0
100	PI2 BPSK	135	69	19.27	19.27	19.27			20.0
100	PI2 BPSK	135	138	19.17	19.17	19.17			20.0
100	PI2 BPSK	270	0	19.22	19.22	19.22			20.0
100	QPSK	1	1	18.55	18.55	18.55			20.0
100	QPSK	1	137	19.31	19.31	19.31			20.0
100	QPSK	1	271	18.54	18.54	18.54			20.0
100	QPSK	135	0	19.24	19.24	19.24			20.0
100	QPSK	135	69	19.30	19.30	19.30			20.0
100	QPSK	135	138	19.26	19.26	19.26			20.0
100	QPSK	270	0	19.28	19.28	19.28			20.0
100	16QAM	1	1	18.80	18.80	18.80			20.0
100	16QAM	1	1	18.75	18.75	18.75			20.0
100	256QAM	1	1	18.74	18.74	18.74			20.0
Channel									
Frequency (MHz)				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	18.96	18.99	19.01	20.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	18.99	19.03	19.02	20.0	0.0	
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.00	18.98	19.03	20.0	0.0	
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	18.98	19.04	19.05	20.0	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.00	19.06	19.09	20.0	0.0	
Channel									
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	18.99	19.06	19.06	20.0	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.02	19.99	19.04	20.0	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.05	19.06	19.00	20.0	0.0	
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.02	19.06	19.02	20.0	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.98	19.04	19.08	20.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334			
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		18.54			
100	PI2 BPSK	1	137		18.14		20.0	0.0
100	PI2 BPSK	1	271		18.53			
100	PI2 BPSK	135	0		19.01		20.0	0.0
100	PI2 BPSK	135	69		19.16		20.0	0.0
100	PI2 BPSK	135	138		19.07		20.0	0.0
100	PI2 BPSK	270	0		19.12			
100	QPSK	1	1		18.87			
100	QPSK	1	137		19.27		20.0	0.0
100	QPSK	1	271		18.64			
100	QPSK	135	0		19.17		20.0	0.0
100	QPSK	135	69		19.23		20.0	0.0
100	QPSK	135	138		19.14		20.0	0.0
100	QPSK	270	0		19.22			
100	16QAM	1	1		18.67		20.0	0.0
100	64QAM	1	1		18.87		20.0	0.0
100	256QAM	1	1		18.64		20.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.86	18.88	18.93	20.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.89	18.92	18.96	20.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3488.01	3500.01	3515.01		
70	QPSK	1	1	18.86	18.86	18.94	20.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.84	18.92	18.94	20.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.85	18.93	18.88	20.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.83	18.85	18.90	20.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.83	18.84	18.85	20.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.86	18.85	18.95	20.0	0.0
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.82		
15	QPSK	1	1	18.84	18.90	18.91	20.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	18.83	18.87	18.92	20.0	0.0



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n2 Ant0 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3793000	3760000	3790000			
Frequency (MHz)				14.85	14.92	14.79			
30	PI/2 BPSK	1	1	14.85	14.92	14.79	16.0	0.0	
30	PI/2 BPSK	1	80	15.03	15.28	15.13			
30	PI/2 BPSK	1	158	14.82	15.08	14.81			
30	PI/2 BPSK	80	0	14.93	14.97	14.81	16.0	0.0	
30	PI/2 BPSK	80	40	15.11	15.24	15.13	16.0	0.0	
30	PI/2 BPSK	80	80	14.91	15.03	14.93	16.0	0.0	
30	PI/2 BPSK	160	0	14.87	14.96	14.75			
30	QPSK	1	1	14.98	15.31	15.06			
30	QPSK	1	80	14.92	15.06	14.94			
30	QPSK	1	158	14.76	14.90	14.88	16.0	0.0	
30	QPSK	80	0	15.01	14.98	15.15	16.0	0.0	
30	QPSK	80	40	15.06	15.18	14.92	16.0	0.0	
30	QPSK	80	80	14.82	14.84	14.91	16.0	0.0	
30	QPSK	160	0	15.07	15.22	15.16	16.0	0.0	
30	16QAM	1	1	14.84	14.97	14.90	16.0	0.0	
30	64QAM	1	1	14.94	14.96	14.96	16.0	0.0	
30	256QAM	1	1	14.96	14.95	14.83	16.0	0.0	
Channel				3725000	3760000	3795000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				14.82.5	14.80	14.84			
25	QPSK	1	1	14.83	15.08	14.84	16.0	0.0	
Channel				3720000	3760000	3800000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				14.80	14.80	14.90			
20	QPSK	1	1	14.87	15.15	14.84	16.0	0.0	
Channel				3715000	3760000	3805000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				14.82.5	14.80	14.82.5			
15	QPSK	1	1	14.85	15.09	14.86	16.0	0.0	
Channel				3710000	3760000	3810000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				14.75	14.80	14.95			
10	QPSK	1	1	14.74	15.16	14.82	16.0	0.0	
Channel				3705000	3760000	3815000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				14.82.5	14.80	14.97.5			
5	QPSK	1	1	14.73	15.14	14.84	16.0	0.0	

n5 Ant0 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1673000					
Frequency (MHz)				21.91					
25	PI/2 BPSK	1	1	21.91			23.0	0.0	
25	PI/2 BPSK	1	67		21.90				
25	PI/2 BPSK	1	131		21.88				
25	PI/2 BPSK	64	0		21.91		23.0	0.0	
25	PI/2 BPSK	64	35		21.93		23.0	0.0	
25	PI/2 BPSK	64	69		21.92		23.0	0.0	
25	PI/2 BPSK	128	0		21.89				
25	QPSK	1	1		21.95		23.0	0.0	
25	QPSK	1	67		21.97				
25	QPSK	1	131		21.91				
25	QPSK	64	0		21.89		23.0	0.0	
25	QPSK	64	35		21.92		23.0	0.0	
25	QPSK	64	69		21.78		23.0	0.0	
25	QPSK	128	0		21.83		23.0	0.0	
25	16QAM	1	1		21.32		23.0	0.0	
25	64QAM	1	1		20.00		21.5	1.5	
25	256QAM	1	1		18.53		18.5	3.5	
Channel				1668000	1673000	1678000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				834	836.5	838			
20	QPSK	1	1	21.92	21.90	21.87	23.0	0.0	
Channel				1663000	1673000	1683000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	835.5	841.5			
15	QPSK	1	1	21.90	21.96	21.91	23.0	0.0	
Channel				1658000	1673000	1688000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	21.91	21.95	21.86	23.0	0.0	
Channel				1653000	1673000	1693000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.86	21.93	21.85	23.0	0.0	

n12 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1413000	1415000	1417000			
Frequency (MHz)				706.5	707.5	707.5			
15	PI/2 BPSK	1	1	22.84	22.98	22.75			
15	PI/2 BPSK	1	40	22.75	22.83	22.71	24.0	0.0	
15	PI/2 BPSK	1	77	22.73	22.80	22.71			
15	PI/2 BPSK	36	0	22.95	22.85	22.92	23.5	0.5	
15	PI/2 BPSK	36	22	22.69	22.81	22.70	24.0	0.0	
15	PI/2 BPSK	36	43	22.54	22.61	22.50	23.5	0.5	
15	PI/2 BPSK	75	0	22.88	22.64	22.61			
15	QPSK	1	1	22.87	22.92	22.81	24.0	0.0	
15	QPSK	1	40	22.83	22.87	22.77			
15	QPSK	1	77	22.72	22.81	22.66			
15	QPSK	36	0	22.04	22.12	22.08	23.0	1.0	
15	QPSK	36	22	22.82	22.85	22.77	24.0	0.0	
15	QPSK	36	43	22.92	22.97	21.94	23.0	1.0	
15	QPSK	75	0	22.05	22.13	22.00			
15	16QAM	1	1	21.72	21.76	21.69	23.0	1.0	
15	64QAM	1	1	20.11	20.22	20.18	21.5	2.5	
15	256QAM	1	1	18.70	18.83	18.77	19.5	4.5	
Channel				1408000	1415000	1422000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.82	22.85	22.72	24.0	0.0	
Channel				1403000	1415000	1421000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.72	22.80	22.67	24.0	0.0	



n14 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.57	22.57	22.57			
10	PI2 BPSK	1	25	22.53	22.53	22.53	24.0	0.0	
10	PI2 BPSK	1	50	22.50	22.50	22.50			
10	PI2 BPSK	25	0	22.12	22.12	22.12	23.5	0.5	
10	PI2 BPSK	25	14	22.26	22.26	22.26	24.0	0.0	
10	PI2 BPSK	25	27	22.07	22.07	22.07			
10	PI2 BPSK	50	0	22.14	22.14	22.14	23.5	0.5	
10	QPSK	1	1	22.64	22.64	22.64			
10	QPSK	1	26	22.59	22.59	22.59	24.0	0.0	
10	QPSK	1	50	22.55	22.55	22.55			
10	QPSK	25	0	21.73	21.73	21.73	23.0	1.0	
10	QPSK	25	14	22.60	22.60	22.60	24.0	0.0	
10	QPSK	25	27	21.86	21.86	21.86	23.0	1.0	
10	QPSK	50	0	21.78	21.78	21.78	23.0	1.0	
10	16QAM	1	1	21.36	21.36	21.36	23.0	1.0	
10	64QAM	1	1	19.91	19.91	19.91	21.5	2.5	
10	256QAM	1	1	18.48	18.48	18.48	19.5	4.5	
Channel				159.100	159.000	159.100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.53	22.52	22.49	24.0	0.0	

n25 Ant0 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	14.15	14.37	14.29			
45	PI2 BPSK	1	61	15.04	15.13	14.93	16.0	0.0	
45	PI2 BPSK	1	121	14.44	14.47	14.31			
45	PI2 BPSK	121	0	14.27	14.37	14.22	16.0	0.0	
45	PI2 BPSK	121	61	15.07	15.21	15.03	16.0	0.0	
45	PI2 BPSK	121	121	14.41	14.54	14.34			
45	PI2 BPSK	242	0	14.21	14.40	14.24	16.0	0.0	
45	QPSK	1	1	15.04	15.23	14.98			
45	QPSK	1	61	14.25	14.49	14.27	16.0	0.0	
45	QPSK	1	121	14.35	14.42	14.29			
45	QPSK	121	0	15.06	15.13	14.95	16.0	0.0	
45	QPSK	121	61	14.42	15.11	14.37	16.0	0.0	
45	QPSK	121	121	14.12	14.29	14.20			
45	QPSK	242	0	14.92	14.99	14.97	16.0	0.0	
45	16QAM	1	1	14.37	14.52	14.41	16.0	0.0	
45	64QAM	1	1	14.44	14.45	14.31	16.0	0.0	
45	256QAM	1	1	14.43	14.39	14.42	16.0	0.0	
Channel				374000	376500	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1870	1882.5	1895			
40	QPSK	1	1	15.30	15.24	15.27	16.0	0.0	
Channel				372500	376500	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1892.5	1920			
35	QPSK	1	1	15.08	15.03	15.10	16.0	0.0	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1866	1892.5	1925			
30	QPSK	1	1	15.07	15.13	15.16	16.0	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1892.5	1925.5			
25	QPSK	1	1	15.13	15.10	15.10	16.0	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1892.5	1925			
20	QPSK	1	1	15.09	15.07	15.11	16.0	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1892.5	1927.5			
15	QPSK	1	1	15.19	15.05	15.14	16.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1854	1892.5	1930			
10	QPSK	1	1	15.12	15.12	15.02	16.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1892.5	1912.5			
5	QPSK	1	1	15.10	15.00	15.08	16.0	0.0	

n26 Ant0 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24	24.42	24.26			
20	PI2 BPSK	1	53	21.25	21.44	21.28	22.5	0.0	
20	PI2 BPSK	1	104	21.28	21.36	21.31			
20	PI2 BPSK	50	0	21.34	21.42	21.34	22.5	0.0	
20	PI2 BPSK	50	28	21.26	21.44	21.29	22.5	0.0	
20	PI2 BPSK	50	56	21.28	21.45	21.38	22.5	0.0	
20	PI2 BPSK	100	0	21.28	21.47	21.30			
20	QPSK	1	1	21.27	21.48	21.30			
20	QPSK	1	53	21.32	21.35	21.31	22.5	0.0	
20	QPSK	1	104	21.33	21.46	21.27			
20	QPSK	50	0	21.30	21.34	21.31	22.5	0.0	
20	QPSK	50	28	21.34	21.42	21.32	22.5	0.0	
20	QPSK	50	56	21.30	21.38	21.31			
20	QPSK	100	0	21.32	21.38	21.32	22.5	0.0	
20	16QAM	1	1	21.36	21.43	21.30			
20	64QAM	1	1	19.95	20.06	19.99	21.5	1.0	
20	256QAM	1	1	18.51	18.62	18.57	19.5	3.0	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	21.29	21.36	21.33	22.5	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	21.27	21.44	21.33	22.5	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	21.27	21.37	21.31	22.5	0.0	



n66 Ant0 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	351000			
Frequency (MHz)				1722.5	1745	1727.5			
45	PI2 BPSK	1	1	15.85	15.97	15.90			
45	PI2 BPSK	1	61	15.88	15.90	15.93	17.0	0.0	
45	PI2 BPSK	1	121	15.83	15.90	15.87			
45	PI2 BPSK	121	0	15.93	15.88	15.89	17.0	0.0	
45	PI2 BPSK	121	61	15.85	15.92	15.94	17.0	0.0	
45	PI2 BPSK	121	121	15.91	15.97	15.85	17.0	0.0	
45	PI2 BPSK	242	0	15.81	15.97	15.94			
45	QPSK	1	1	15.88	15.94	15.92			
45	QPSK	1	61	15.85	15.95	15.86	17.0	0.0	
45	QPSK	1	121	15.84	15.92	15.95			
45	QPSK	121	0	15.84	15.87	15.97	17.0	0.0	
45	QPSK	121	61	15.81	15.98	15.92	17.0	0.0	
45	QPSK	121	121	15.84	15.84	15.82	17.0	0.0	
45	QPSK	242	0	15.90	15.93	15.89			
45	16QAM	1	1	15.85	15.87	15.90	17.0	0.0	
45	64QAM	1	1	15.87	15.93	15.97	17.0	0.0	
45	256QAM	1	1	15.83	15.86	15.84	17.0	0.0	
Channel				345000	349000	352000	Tune-up limit	MPR	
Frequency (MHz)				1730	1745	1760	(dBm)		
40	QPSK	1	1	15.89	15.93	15.84	17.0	0.0	
Channel				345000	349000	350000	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)		
35	QPSK	1	1	15.89	15.93	15.84	17.0	0.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)		
30	QPSK	1	1	15.92	15.96	15.89	17.0	0.0	
Channel				345000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1730	1745	1770	(dBm)		
20	QPSK	1	1	15.85	15.96	15.95	17.0	0.0	
Channel				345000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)		
15	QPSK	1	1	15.93	15.92	15.93	17.0	0.0	
Channel				345000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1716	1745	1771	(dBm)		
10	QPSK	1	1	15.85	15.87	15.87	17.0	0.0	
Channel				345000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)		
5	QPSK	1	1	15.80	15.91	15.90	17.0	0.0	

n70 Ant0 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340000	340500				
Frequency (MHz)				1722.5					
15	PI2 BPSK	1	1	17.02					
15	PI2 BPSK	1	40		17.04		18.0	0.0	
15	PI2 BPSK	1	77		17.04				
15	PI2 BPSK	36	0		17.04		18.0	0.0	
15	PI2 BPSK	36	22		17.04		18.0	0.0	
15	PI2 BPSK	36	43		16.97		18.0	0.0	
15	PI2 BPSK	75	0		17.02				
15	QPSK	1	1		17.06				
15	QPSK	1	40		16.92		18.0	0.0	
15	QPSK	1	77		17.05				
15	QPSK	36	0		17.00		18.0	0.0	
15	QPSK	36	22		17.01		18.0	0.0	
15	QPSK	36	43		16.93		18.0	0.0	
15	QPSK	75	0		16.98				
15	16QAM	1	1		16.99		18.0	0.0	
15	64QAM	1	1		17.02		18.0	0.0	
15	256QAM	1	1		16.91		18.0	0.0	
Channel				340000	340500	341000	Tune-up limit	MPR	
Frequency (MHz)				1700	1702.5	1705	(dBm)		
10	QPSK	1	1	16.92	17.01	16.97	18.0	0.0	
Channel				339500	340500	341000	Tune-up limit	MPR	
Frequency (MHz)				1697.5	1702.5	1707.5	(dBm)		
5	QPSK	1	1	17.03	17.02	16.91	18.0	0.0	

n71 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI2 BPSK	1	1	22.92	23.04	22.97			
20	PI2 BPSK	1	53	22.84	22.91	22.78	24.0	0.0	
20	PI2 BPSK	1	104	22.73	22.83	22.79			
20	PI2 BPSK	50	0	22.45	22.52	22.40	23.5	0.5	
20	PI2 BPSK	50	28	22.94	23.02	22.96	24.0	0.0	
20	PI2 BPSK	50	56	22.48	22.52	22.38	23.5	0.5	
20	PI2 BPSK	100	0	22.50	22.58	22.52			
20	QPSK	1	1	23.07	23.11	23.01			
20	QPSK	1	53	22.90	22.95	22.83	24.0	0.0	
20	QPSK	1	104	22.98	22.76	22.62			
20	QPSK	50	0	21.85	21.94	21.82	23.0	1.0	
20	QPSK	50	28	23.00	23.07	22.96	24.0	0.0	
20	QPSK	50	56	21.98	22.00	21.91			
20	QPSK	100	0	22.01	22.04	21.97	23.0	1.0	
20	16QAM	1	1	21.60	21.66	21.55	23.0	1.0	
20	64QAM	1	1	20.07	20.13	20.00	21.5	2.5	
20	256QAM	1	1	18.61	18.70	18.62	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit	MPR	
Frequency (MHz)				670.5	680.5	690.5	(dBm)		
15	QPSK	1	1	22.95	23.05	22.98	24.0	0.0	
Channel				133500	136100	138500	Tune-up limit	MPR	
Frequency (MHz)				667.5	680.5	693.5	(dBm)		
10	QPSK	1	1	22.93	23.01	22.97	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit	MPR	
Frequency (MHz)				665	680.5	695.5	(dBm)		
5	QPSK	1	1	22.92	23.08	22.96	24.0	0.0	



n7 Ant1 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	19.69	19.73	19.60			
50	PI/2 BPSK	1	135	19.57	19.55	19.57	20.5	0.0	
50	PI/2 BPSK	1	268	19.27	19.30	19.26			
50	PI/2 BPSK	135	0	19.65	19.77	19.62	20.5	0.0	
50	PI/2 BPSK	135	68	19.49	19.60	19.53	20.5	0.0	
50	PI/2 BPSK	135	135	19.19	19.26	19.22	20.5	0.0	
50	PI/2 BPSK	270	0	19.73	19.72	19.66			
50	QPSK	1	1	19.52	19.78	19.55			
50	QPSK	1	135	19.16	19.27	19.24	20.5	0.0	
50	QPSK	1	268	19.70	19.77	19.69			
50	QPSK	135	0	19.53	19.64	19.49	20.5	0.0	
50	QPSK	135	68	19.18	19.74	19.26	20.5	0.0	
50	QPSK	135	135	19.68	19.64	19.65	20.5	0.0	
50	QPSK	270	0	19.52	19.58	19.47			
50	16QAM	1	1	19.18	19.30	19.17	20.5	0.0	
50	64QAM	1	1	19.53	19.55	19.57	20.5	0.0	
50	256QAM	1	1	18.89	18.92	18.84	19.0	1.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	19.62	19.59	19.56	20.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.56	19.65	19.48	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2537.5			
25	QPSK	1	1	19.49	19.68	19.52	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	19.56	19.54	19.55	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	19.61	19.67	19.49	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.58	19.63	19.47	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.49	19.56	19.45	20.5	0.0	

n30 Ant1 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1			20.73			
10	PI/2 BPSK	1	26			20.71		21.5	0.0
10	PI/2 BPSK	1	50			20.85			
10	PI/2 BPSK	25	0			20.85		21.5	0.0
10	PI/2 BPSK	25	14			20.76			
10	PI/2 BPSK	25	27			20.71			
10	PI/2 BPSK	50	0			20.82		21.5	0.0
10	QPSK	1	1			20.86			
10	QPSK	1	26			20.77		21.5	0.0
10	QPSK	1	50			20.76			
10	QPSK	25	0			20.76		21.5	0.0
10	QPSK	25	14			20.81		21.5	0.0
10	QPSK	25	27			20.80			
10	QPSK	50	0			20.75		21.5	0.0
10	16QAM	1	1			20.73		21.5	0.0
10	64QAM	1	1			20.39		21.5	0.0
10	256QAM	1	1			18.89		19.5	2.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	20.79	20.84	20.77	21.5	0.0	



n41 Ant1 PC3&2 ECI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				505000	518598	526000		
100	PI2 BPSK	1	1	19.54	19.64	19.43		
100	PI2 BPSK	1	137	19.56	19.58	19.39	20.5	0.0
100	PI2 BPSK	1	271	19.56	19.56	19.44		
100	PI2 BPSK	135	0	19.53	19.56	19.47	20.5	0.0
100	PI2 BPSK	135	69	19.55	19.63	19.48	20.5	0.0
100	PI2 BPSK	135	138	19.59	19.65	19.42	20.5	0.0
100	PI2 BPSK	270	0	19.62	19.62	19.42		
100	QPSK	1	1	19.62	19.60	19.46		
100	QPSK	1	137	19.60	19.67	19.47	20.5	0.0
100	QPSK	1	271	19.65	19.61	19.43		
100	QPSK	135	0	19.55	19.61	19.37	20.5	0.0
100	QPSK	135	69	19.63	19.66	19.47	20.5	0.0
100	QPSK	135	138	19.52	19.61	19.38	20.5	0.0
100	QPSK	270	0	19.60	19.59	19.47		
100	HQAM	1	1	19.63	19.60	19.47	20.5	0.0
100	HQAM	1	1	19.58	19.60	19.49	20.5	0.0
100	25GQAM	1	1	19.28	19.36	19.31	20.5	0.0
Channel								
Frequency (MHz)				508000	518598	526998		
90	QPSK	1	1	2541	2592.99	2644.98		
Frequency (MHz)				507204	518598	526998		
80	QPSK	1	1	2538.02	2592.99	2649.98		
Frequency (MHz)				505200	518598	531000		
70	QPSK	1	1	19.59	19.60	19.42	20.5	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
80	QPSK	1	1	19.60	19.63	19.50	20.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	19.57	19.66	19.45	20.5	0.0
Channel								
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	19.64	19.59	19.40	20.5	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	19.52	19.63	19.40	20.5	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	2502.02	2592.99	2679.98		
Channel								
Frequency (MHz)				500700	518598	536998		
15	QPSK	1	1	2503.5	2592.99	2692.48		
Channel								
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.63	19.65	19.41	20.5	0.0

Part270 n77 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000	650000	662000		
100	PI2 BPSK	1	1	19.12	19.22	19.17		
100	PI2 BPSK	1	137	19.98	20.03	19.96	21.0	0.0
100	PI2 BPSK	1	271	19.05	19.11	19.05		
100	PI2 BPSK	135	0	19.94	19.97	19.90	21.0	0.0
100	PI2 BPSK	135	69	19.94	20.04	19.98	21.0	0.0
100	PI2 BPSK	135	138	19.80	19.86	19.82	21.0	0.0
100	PI2 BPSK	270	0	19.81	19.86	19.88		
100	QPSK	1	1	19.34	19.37	19.19		
100	QPSK	1	137	20.08	20.26	20.01	21.0	0.0
100	QPSK	1	271	19.91	19.02	19.97		
100	QPSK	135	0	19.86	20.00	19.87	21.0	0.0
100	QPSK	135	69	20.17	20.21	19.95	21.0	0.0
100	QPSK	135	138	19.87	19.96	19.81	21.0	0.0
100	QPSK	270	0	19.91	20.07	19.84		
100	HQAM	1	1	19.01	19.08	19.84	21.0	0.0
100	HQAM	1	1	18.86	19.01	18.94	21.0	0.0
100	25GQAM	1	1	18.10	18.14	17.99	19.5	1.5
Channel								
Frequency (MHz)				648668	650000	662334		
90	QPSK	1	1	3745.02	3840	3935.01		
Frequency (MHz)				648000	650000	662000		
80	QPSK	1	1	3740.01	3840	3940.02		
Frequency (MHz)				648000	650000	662000		
80	QPSK	1	1	20.01	20.21	19.93	21.0	0.0
Channel								
Frequency (MHz)				648000	650000	662000		
70	QPSK	1	1	20.04	20.23	19.91	21.0	0.0
Channel								
Frequency (MHz)				647808	650000	662334		
80	QPSK	1	1	19.58	19.60	19.55	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
50	QPSK	1	1	20.01	20.25	19.96	21.0	0.0
Channel								
Frequency (MHz)				647000	650000	664668		
40	QPSK	1	1	19.96	20.16	19.90	21.0	0.0
Channel								
Frequency (MHz)				647000	650000	664334		
30	QPSK	1	1	19.96	20.14	19.91	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	3710.01	3840	3917.02		
Channel								
Frequency (MHz)				647168	650000	664634		
15	QPSK	1	1	3707.52	3840	3922.51		
Channel								
Frequency (MHz)				647000	650000	664000		
10	QPSK	1	1	19.97	20.18	19.95	21.0	0.0
Channel								
Frequency (MHz)				647000	650000	663000		
10	QPSK	1	1	3705	3840	3975		
Channel								
Frequency (MHz)				647334	650000	664668		
10	QPSK	1	1	19.94	20.19	19.88	21.0	0.0

Part270 n77 Ant1 PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000	650000	662000		
100	PI2 BPSK	1	1	19.68	19.74	19.62		
100	PI2 BPSK	1	137	20.51	20.47	20.44	21.0	0.0
100	PI2 BPSK	1	271	19.51	19.80	19.51		
100	PI2 BPSK	135	0	20.38	20.41	20.35	21.0	0.0
100	PI2 BPSK	135	69	20.46	20.52	20.48	21.0	0.0
100	PI2 BPSK	135	138	20.35	20.37	20.35	21.0	0.0
100	PI2 BPSK	270	0	20.38	20.46	20.35		
100	QPSK	1	1	19.81	19.77	19.75		
100	QPSK	1	137	20.58	20.76	20.51	21.0	0.0
100	QPSK	1	271	19.34	19.48	19.43		
100	QPSK	135	0	20.39	20.45	20.41	21.0	0.0
100	QPSK	135	69	20.67	20.74	20.59	21.0	0.0
100	QPSK	135	138	20.44	20.52	20.25	21.0	0.0
100	QPSK	270	0	20.34	20.58	20.41		
100	HQAM	1	1	19.53	19.56	19.50	21.0	0.0
100	HQAM	1	1	19.40	19.53	19.46	21.0	0.0
100	25GQAM	1	1	18.23	18.33	18.24	19.5	1.5
Channel								
Frequency (MHz)				648668	650000	662334		
90	QPSK	1	1	3745.02	3840	3935.01		
Frequency (MHz)				648000	650000	662000		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				648000	650000	662000		
80	QPSK	1	1	20.33	20.49	20.30	21.0	0.0
Channel								
Frequency (MHz)				648000	650000	662000		
70	QPSK	1	1	20.34	20.53	20.34	21.0	0.0
Channel								
Frequency (MHz)				648668	650000	663334		
80	QPSK	1	1	19.58	19.60	19.55	21.0	0.0
Channel								
Frequency (MHz)				647808	650000	664668		
50	QPSK	1	1	20.34	20.43	20.28	21.0	0.0
Channel								
Frequency (MHz)				647000	650000	664668		
40	QPSK	1	1	19.96	20.16	19.90	21.0	0.0
Channel								
Frequency (MHz)				647000	650000	664334		
30	QPSK	1	1	19.96	20.14	19.91	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	3710.01	3840	3917.02		
Channel								
Frequency (MHz)				647168	650000	664634		
15	QPSK	1	1	3707.52	3840	3922.51		
Channel								
Frequency (MHz)				647000	650000	664000		
10	QPSK	1	1	19.94	20.19	19.88	21.0	0.0



Part27Q n77 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.26	3500.01			
100	PI2 BPSK	1	137	20.28			21.0	0.0
100	PI2 BPSK	1	271	19.21				
100	PI2 BPSK	135	0	20.12			21.0	0.0
100	PI2 BPSK	135	69	20.24			21.0	0.0
100	PI2 BPSK	135	138	20.19			21.0	0.0
100	PI2 BPSK	270	0	20.11				
100	QPSK	1	1	19.33			21.0	0.0
100	QPSK	1	137	20.34				
100	QPSK	1	271	19.46				
100	QPSK	135	0	20.15			21.0	0.0
100	QPSK	135	69	20.26			21.0	0.0
100	QPSK	135	138	20.16				
100	QPSK	270	0	20.08			21.0	0.0
100	16QAM	1	1	19.18			21.0	0.0
100	16QAM	1	1	19.15			21.0	0.0
100	256QAM	1	1	18.21			19.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.11	20.19	20.16	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.23	20.24	20.17	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.20	20.27	20.19	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.21	20.29	20.20	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.12	20.31	20.12	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.14	20.21	20.19	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.11	20.20	20.14	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.14	20.29	20.19	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.14	20.29	20.18	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.21	20.30	20.20	21.0	0.0

Part27Q n77 Ant1 PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.71	63334			
100	PI2 BPSK	1	137	20.72			21.0	0.0
100	PI2 BPSK	1	271	19.90				
100	PI2 BPSK	135	0	20.08			21.0	0.0
100	PI2 BPSK	135	69	20.79			21.0	0.0
100	PI2 BPSK	135	138	20.05			21.0	0.0
100	PI2 BPSK	270	0	20.62				
100	QPSK	1	1	19.98			21.0	0.0
100	QPSK	1	137	20.99				
100	QPSK	1	271	19.98				
100	QPSK	135	0	20.59			21.0	0.0
100	QPSK	135	69	20.62			21.0	0.0
100	QPSK	135	138	20.84			21.0	0.0
100	QPSK	270	0	20.58				
100	16QAM	1	1	19.84			21.0	0.0
100	16QAM	1	1	19.80			21.0	0.0
100	256QAM	1	1	18.73			19.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.05	20.63	20.60	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.63	20.76	20.84	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.56	20.63	20.69	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.62	20.68	20.72	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.68	20.70	20.87	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.57	20.63	20.81	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.55	20.72	20.84	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.58	20.62	20.87	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.60	20.75	20.89	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.59	20.65	20.84	21.0	0.0

Part27O n78 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.37	65000			
100	PI2 BPSK	1	137	20.31			21.0	0.0
100	PI2 BPSK	1	271	19.29				
100	PI2 BPSK	135	0	20.14			21.0	0.0
100	PI2 BPSK	135	69	20.31			21.0	0.0
100	PI2 BPSK	135	138	20.09			21.0	0.0
100	PI2 BPSK	270	0	20.03				
100	QPSK	1	1	19.42			21.0	0.0
100	QPSK	1	137	20.37				
100	QPSK	1	271	19.33				
100	QPSK	135	0	20.19			21.0	0.0
100	QPSK	135	69	20.33			21.0	0.0
100	QPSK	135	138	20.14				
100	QPSK	270	0	20.06			21.0	0.0
100	16QAM	1	1	19.21			21.0	0.0
100	16QAM	1	1	19.15			21.0	0.0
100	256QAM	1	1	18.27			19.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.29	20.32	20.21	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.25	20.30	20.24	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.20	20.33	20.16	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.25	20.32	20.17	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.25	20.28	20.21	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.20	20.26	20.19	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.28	20.22	20.20	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.24	20.25	20.21	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.30	20.30	20.25	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.25	20.32	20.22	21.0	0.0



Part270 n78 Ant1 PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)								
100	PI2 BPSK	1	1	19.61				
100	PI2 BPSK	1	137	20.49			21.0	0.0
100	PI2 BPSK	1	271	19.55				
100	PI2 BPSK	135	0	20.34			21.0	0.0
100	PI2 BPSK	135	69	20.53			21.0	0.0
100	PI2 BPSK	135	138	20.26			21.0	0.0
100	PI2 BPSK	270	0	20.18				
100	QPSK	1	1	19.62			21.0	0.0
100	QPSK	1	137	20.55				
100	QPSK	1	271	19.48				
100	QPSK	135	0	20.42			21.0	0.0
100	QPSK	135	69	20.35			21.0	0.0
100	QPSK	135	138	20.27			21.0	0.0
100	QPSK	270	0	20.20				
100	16QAM	1	1	19.36			21.0	0.0
100	64QAM	1	1	19.34			21.0	0.0
100	256QAM	1	1	18.43			19.5	1.5
Channel				64968	65000	65034	Tune-up limit (dB)	MPR
Frequency (MHz)								
90	QPSK	1	1	20.47	20.48	20.47	21.0	0.0
Channel				65334	65000	65068	Tune-up limit (dB)	MPR
Frequency (MHz)								
80	QPSK	1	1	20.48	20.46	20.45	21.0	0.0
Channel				65000	65000	65100	Tune-up limit (dB)	MPR
Frequency (MHz)								
70	QPSK	1	1	20.44	20.49	20.38	21.0	0.0
Channel				64968	65000	65134	Tune-up limit (dB)	MPR
Frequency (MHz)								
60	QPSK	1	1	20.49	20.45	20.44	21.0	0.0
Channel				64834	65000	65168	Tune-up limit (dB)	MPR
Frequency (MHz)								
50	QPSK	1	1	20.51	20.51	20.42	21.0	0.0
Channel				65000	65000	65100	Tune-up limit (dB)	MPR
Frequency (MHz)								
40	QPSK	1	1	20.52	20.53	20.38	21.0	0.0
Channel				64768	65000	65234	Tune-up limit (dB)	MPR
Frequency (MHz)								
30	QPSK	1	1	20.52	20.51	20.40	21.0	0.0
Channel				64734	65000	65268	Tune-up limit (dB)	MPR
Frequency (MHz)								
20	QPSK	1	1	20.44	20.47	20.45	21.0	0.0
Channel				64768	65000	65234	Tune-up limit (dB)	MPR
Frequency (MHz)								
15	QPSK	1	1	20.54	20.52	20.47	21.0	0.0
Channel				64700	65000	65300	Tune-up limit (dB)	MPR
Frequency (MHz)								
10	QPSK	1	1	20.48	20.54	20.46	21.0	0.0

Part27Q n78 Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				63334				
Frequency (MHz)								
100	PI2 BPSK	1	1	19.18				
100	PI2 BPSK	1	137	20.06			21.0	0.0
100	PI2 BPSK	1	271	19.48				
100	PI2 BPSK	135	0	19.64			21.0	0.0
100	PI2 BPSK	135	69	19.79			21.0	0.0
100	PI2 BPSK	135	138	19.92			21.0	0.0
100	PI2 BPSK	270	0	19.74				
100	QPSK	1	1	19.24			21.0	0.0
100	QPSK	1	137	20.13				
100	QPSK	1	271	19.92				
100	QPSK	135	0	19.69			21.0	0.0
100	QPSK	135	69	20.08			21.0	0.0
100	QPSK	135	138	19.97			21.0	0.0
100	QPSK	270	0	19.95				
100	16QAM	1	1	18.83			21.0	0.0
100	64QAM	1	1	18.79			21.0	0.0
100	256QAM	1	1	18.20			19.5	1.5
Channel				63300	63334	63368	Tune-up limit (dB)	MPR
Frequency (MHz)								
90	QPSK	1	1	20.04	20.06	19.99	21.0	0.0
Channel				63508	63334	63400	Tune-up limit (dB)	MPR
Frequency (MHz)								
80	QPSK	1	1	19.99	20.01	19.92	21.0	0.0
Channel				63234	63334	63434	Tune-up limit (dB)	MPR
Frequency (MHz)								
70	QPSK	1	1	19.96	20.07	19.87	21.0	0.0
Channel				63000	63334	63468	Tune-up limit (dB)	MPR
Frequency (MHz)								
60	QPSK	1	1	20.04	20.03	19.93	21.0	0.0
Channel				63168	63334	63500	Tune-up limit (dB)	MPR
Frequency (MHz)								
50	QPSK	1	1	20.01	20.08	19.80	21.0	0.0
Channel				63134	63334	63534	Tune-up limit (dB)	MPR
Frequency (MHz)								
40	QPSK	1	1	20.00	20.03	19.86	21.0	0.0
Channel				63100	63334	63568	Tune-up limit (dB)	MPR
Frequency (MHz)								
30	QPSK	1	1	19.99	19.98	19.86	21.0	0.0
Channel				63068	63334	63600	Tune-up limit (dB)	MPR
Frequency (MHz)								
20	QPSK	1	1	19.97	20.09	19.84	21.0	0.0
Channel				63030	63334	63634	Tune-up limit (dB)	MPR
Frequency (MHz)								
15	QPSK	1	1	19.96	19.99	19.93	21.0	0.0
Channel				63000	63334	63668	Tune-up limit (dB)	MPR
Frequency (MHz)								
10	QPSK	1	1	19.97	20.04	19.89	21.0	0.0

Part27Q n78 Ant1 PC2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				63334				
Frequency (MHz)								
100	PI2 BPSK	1	1	19.42				
100	PI2 BPSK	1	137	20.38			21.0	0.0
100	PI2 BPSK	1	271	19.82				
100	PI2 BPSK	135	0	19.87			21.0	0.0
100	PI2 BPSK	135	69	20.11			21.0	0.0
100	PI2 BPSK	135	138	20.19			21.0	0.0
100	PI2 BPSK	270	0	20.04				
100	QPSK	1	1	19.50			21.0	0.0
100	QPSK	1	137	20.45				
100	QPSK	1	271	19.87				
100	QPSK	135	0	19.97			21.0	0.0
100	QPSK	135	69	20.38			21.0	0.0
100	QPSK	135	138	20.20			21.0	0.0
100	QPSK	270	0	20.21				
100	16QAM	1	1	19.15			21.0	0.0
100	64QAM	1	1	19.14			21.0	0.0
100	256QAM	1	1	18.20			19.5	1.5
Channel				63300	63334	63368	Tune-up limit (dB)	MPR
Frequency (MHz)								
90	QPSK	1	1	20.38	20.35	20.13	21.0	0.0
Channel				63508	63334	63400	Tune-up limit (dB)	MPR
Frequency (MHz)								
80	QPSK	1	1	20.38	20.31	20.15	21.0	0.0
Channel				63234	63334	63434	Tune-up limit (dB)	MPR
Frequency (MHz)								
70	QPSK	1	1	20.37	20.38	20.16	21.0	0.0
Channel				63000	63334	63468	Tune-up limit (dB)	MPR
Frequency (MHz)								
60	QPSK	1	1	20.30	20.32	20.20	21.0	0.0
Channel				63168	63334	63500	Tune-up limit (dB)	MPR
Frequency (MHz)								
50	QPSK	1	1	20.35	20.33	20.24	21.0	0.0
Channel				63134	63334	63534	Tune-up limit (dB)	MPR
Frequency (MHz)								
40	QPSK	1	1	20.30	20.36	20.16	21.0	0.0
Channel				63100	63334	63568	Tune-up limit (dB)	MPR
Frequency (MHz)								
30	QPSK	1	1	20.33	20.37	20.23	21.0	0.0
Channel				63068	63334	63600	Tune-up limit (dB)	MPR
Frequency (MHz)								
20	QPSK	1	1	20.32	20.37	20.25	21.0	0.0
Channel				63030	63334	63634	Tune-up limit (dB)	MPR
Frequency (MHz)								
15	QPSK	1	1	20.32	20.42	20.25	21.0	0.0
Channel				63000	63334	63668	Tune-up limit (dB)	MPR
Frequency (MHz)								
10	QPSK	1	1	20.29	20.39	20.17	21.0	0.0



n41 Ant2 PC3&PC2 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				526202	518598	526200			
Frequency (MHz)				2641.01	2592.99	2640			
100	Pi2 BPSK	1	1	17.05	17.04	17.01			
100	Pi2 BPSK	1	137	17.09	17.08	16.89			
100	Pi2 BPSK	1	271	17.03	17.03	16.99	17.5	0.0	
100	Pi2 BPSK	135	0	17.08	17.16	16.93			
100	Pi2 BPSK	135	69	16.97	17.13	16.93	17.5	0.0	
100	Pi2 BPSK	135	138	16.99	17.09	17.06			
100	Pi2 BPSK	270	0	16.99	17.04	16.93			
100	QPSK	1	1	17.02	17.06	16.93			
100	QPSK	1	137	17.01	17.17	16.91	17.5	0.0	
100	QPSK	1	271	16.96	17.04	16.96			
100	QPSK	135	0	17.08	17.09	16.96	17.5	0.0	
100	QPSK	135	69	17.00	17.12	16.91			
100	QPSK	135	138	17.03	17.06	16.92	17.5	0.0	
100	QPSK	270	0	17.03	17.10	16.95			
100	16QAM	1	1	17.07	17.15	17.00	17.5	0.0	
100	16QAM	1	1	16.99	17.12	16.92	17.5	0.0	
100	256QAM	1	1	17.01	17.02	17.00	17.5	0.0	
Channel				508200	518598	526996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	16.58	16.58	16.71	17.5	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.98			
80	QPSK	1	1	16.89	17.03	16.78	17.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2492.02	2592.99	2671.98			
70	QPSK	1	1	16.79	16.94	16.74	17.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2492.02	2592.99	2671.98			
80	QPSK	1	1	16.57	17.01	16.73	17.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.04	2592.99	2664.98			
50	QPSK	1	1	16.98	17.07	16.79	17.5	0.0	
Channel				503202	518598	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2655			
40	QPSK	1	1	16.02	16.05	16.00	17.5	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98			
30	QPSK	1	1	16.80	16.98	16.71	17.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98			
20	QPSK	1	1	16.58	17.03	16.76	17.5	0.0	
Channel				500200	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.01	2592.99	2682.48			
15	QPSK	1	1	16.82	16.98	16.78	17.5	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	16.76	17.05	16.69	17.5	0.0	

Part270 n77 Ant2 PC3&PC2 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650200	650000	662000			
Frequency (MHz)				3290	3840	3960			
100	Pi2 BPSK	1	1	11.37	11.43	11.17			
100	Pi2 BPSK	1	137	11.33	11.32	11.13			
100	Pi2 BPSK	1	271	11.30	11.36	11.16	12.0	0.0	
100	Pi2 BPSK	135	0	11.29	11.38	11.13	12.0	0.0	
100	Pi2 BPSK	135	69	11.28	11.36	11.14	12.0	0.0	
100	Pi2 BPSK	135	138	11.27	11.33	11.17			
100	Pi2 BPSK	270	0	11.28	11.32	11.11			
100	QPSK	1	1	11.26	11.31	11.20			
100	QPSK	1	137	11.35	11.44	11.14	12.0	0.0	
100	QPSK	1	271	11.32	11.40	11.08			
100	QPSK	135	0	11.35	11.41	11.15	12.0	0.0	
100	QPSK	135	69	11.31	11.42	11.12	12.0	0.0	
100	QPSK	135	138	11.30	11.35	11.17	12.0	0.0	
100	QPSK	270	0	11.33	11.36	11.16			
100	16QAM	1	1	11.28	11.42	11.11	12.0	0.0	
100	16QAM	1	1	11.35	11.34	11.09	12.0	0.0	
100	256QAM	1	1	11.32	11.31	11.11	12.0	0.0	
Channel				648668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3955.01			
90	QPSK	1	1	11.22	11.23	10.93	12.0	0.0	
Channel				648334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3949.02			
80	QPSK	1	1	11.16	11.29	11.00	12.0	0.0	
Channel				648000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.00	3840	3950.00			
70	QPSK	1	1	11.10	11.31	10.95	12.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.00	3840	3950.00			
80	QPSK	1	1	11.13	11.21	11.00	12.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	11.15	11.23	10.92	12.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.00	3840	3960			
40	QPSK	1	1	11.18	11.34	10.96	12.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.01	3840	3970.02			
30	QPSK	1	1	11.24	11.24	10.94	12.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	11.15	11.24	11.00	12.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.00	3840	3975			
15	QPSK	1	1	11.22	11.32	10.96	12.0	0.0	
Channel				647168	650000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
10	QPSK	1	1	11.17	11.23	10.99	12.0	0.0	

Part270Q n77 Ant2 PC3&PC2 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
100	Pi2 BPSK	1	1	10.98			12.0	0.0	
100	Pi2 BPSK	1	137	10.97					
100	Pi2 BPSK	1	271	10.94					
100	Pi2 BPSK	135	0	10.91			12.0	0.0	
100	Pi2 BPSK	135	69	10.89			12.0	0.0	
100	Pi2 BPSK	135	138	10.93			12.0	0.0	
100	Pi2 BPSK	270	0	10.99					
100	QPSK	1	1	10.94					
100	QPSK	1	137	11.02			12.0	0.0	
100	QPSK	1	271	10.89					
100	QPSK	135	0	10.92			12.0	0.0	
100	QPSK	135	69	11.01			12.0	0.0	
100	QPSK	135	138	10.92			12.0	0.0	
100	QPSK	270	0	10.90					
100	16QAM	1	1	10.92			12.0	0.0	
100	16QAM	1	1	10.96			12.0	0.0	
100	256QAM	1	1	11.00			12.0	0.0	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	10.70	10.83	10.48	12.0	0.0	
Channel				630000	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510.01			
80	QPSK	1	1	10.68	10.86	10.49	12.0	0.0	
Channel				630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3500.02			
70	QPSK	1	1	10.64	10.82	10.55	12.0	0.0	
Channel				630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3500.02			
80	QPSK	1	1	10.71	10.79	10.51	12.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	10.73	10.76	10.48	12.0	0.0	
Channel				631668	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	10.73	10.76	10.52	12.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460	3500.01	3535.01			
30	QPSK	1	1	10.64	10.77	10.59	12.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	



Part270 n78 Ant2 PC3&PC2 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	10.75	10.75	10.75	12.0	0.0	
100	PI2 BPSK	1	137	10.85	10.85	10.85	12.0	0.0	
100	PI2 BPSK	1	271	10.85	10.85	10.85	12.0	0.0	
100	PI2 BPSK	135	0	10.85	10.85	10.85	12.0	0.0	
100	PI2 BPSK	135	69	10.77	10.77	10.77	12.0	0.0	
100	PI2 BPSK	135	138	10.74	10.74	10.74	12.0	0.0	
100	PI2 BPSK	270	0	10.83	10.83	10.83	12.0	0.0	
100	QPSK	1	1	10.38	10.38	10.38	12.0	0.0	
100	QPSK	1	137	11.02	11.02	11.02	12.0	0.0	
100	QPSK	1	271	10.74	10.74	10.74	12.0	0.0	
100	QPSK	135	0	10.92	10.92	10.92	12.0	0.0	
100	QPSK	135	69	10.98	10.98	10.98	12.0	0.0	
100	QPSK	135	138	10.81	10.81	10.81	12.0	0.0	
100	QPSK	270	0	10.88	10.88	10.88	12.0	0.0	
100	16QAM	1	1	10.85	10.85	10.85	12.0	0.0	
100	64QAM	1	1	10.74	10.74	10.74	12.0	0.0	
100	256QAM	1	1	10.87	10.87	10.87	10.5	1.5	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	10.40	10.70	10.20	12.0	0.0	
Channel				64934	65000	65066	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	10.58	10.72	10.29	12.0	0.0	
Channel				65000	65000	65100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3750	3750	3760			
70	QPSK	1	1	10.50	10.62	10.25	12.0	0.0	
Channel				64968	65000	65134	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.02	3750	3760.01			
60	QPSK	1	1	10.54	10.63	10.33	12.0	0.0	
Channel				64934	65000	65168	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735.01	3750	3765.02			
50	QPSK	1	1	10.36	10.67	10.35	12.0	0.0	
Channel				65000	65000	65200	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3750	3750	3780			
40	QPSK	1	1	10.50	10.65	10.36	12.0	0.0	
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.01	3750	3785.01			
30	QPSK	1	1	10.45	10.64	10.28	12.0	0.0	
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	10.56	10.64	10.20	12.0	0.0	
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.02	3750	3792.01			
15	QPSK	1	1	10.48	10.62	10.28	12.0	0.0	
Channel				64768	65000	65300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	10.50	10.72	10.30	12.0	0.0	

Part27Q n78 Ant2 PC3&PC2 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633668			
Frequency (MHz)				3600.01	3600.01	3600.01			
100	PI2 BPSK	1	1	10.70	10.70	10.70	12.0	0.0	
100	PI2 BPSK	1	137	10.68	10.68	10.68	12.0	0.0	
100	PI2 BPSK	1	271	10.65	10.65	10.65	12.0	0.0	
100	PI2 BPSK	135	0	10.64	10.64	10.64	12.0	0.0	
100	PI2 BPSK	135	69	10.64	10.64	10.64	12.0	0.0	
100	PI2 BPSK	135	138	10.59	10.59	10.59	12.0	0.0	
100	PI2 BPSK	270	0	10.64	10.64	10.64	12.0	0.0	
100	QPSK	1	1	10.59	10.59	10.59	12.0	0.0	
100	QPSK	1	137	10.74	10.74	10.74	12.0	0.0	
100	QPSK	1	271	10.69	10.69	10.69	12.0	0.0	
100	QPSK	135	0	10.71	10.71	10.71	12.0	0.0	
100	QPSK	135	69	10.72	10.72	10.72	12.0	0.0	
100	QPSK	135	138	10.66	10.66	10.66	12.0	0.0	
100	QPSK	270	0	10.69	10.69	10.69	12.0	0.0	
100	16QAM	1	1	10.64	10.64	10.64	12.0	0.0	
100	64QAM	1	1	10.60	10.60	10.60	12.0	0.0	
100	256QAM	1	1	10.72	10.72	10.72	12.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	10.77	10.42	10.02	12.0	0.0	
Channel				63266	63334	63400	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510.01			
80	QPSK	1	1	10.15	10.40	10.07	12.0	0.0	
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485	3500.01	3515.01			
70	QPSK	1	1	10.47	10.69	10.23	12.0	0.0	
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	10.27	10.47	10.05	12.0	0.0	
Channel				63168	63334	63500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	10.35	10.63	10.18	12.0	0.0	
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	10.48	10.66	10.18	12.0	0.0	
Channel				63100	63334	63568	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	10.49	10.56	10.27	12.0	0.0	
Channel				63068	63334	63600	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	10.42	10.53	10.15	12.0	0.0	
Channel				63050	63334	63618	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	10.40	10.65	10.28	12.0	0.0	
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	10.41	10.68	10.27	12.0	0.0	



n2 Ant4 ECI7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1865	1880	1895		
30	Pi/2 BPSK	1	1	15.52	15.44	15.28		
30	Pi/2 BPSK	1	80	15.37	15.42	15.14	16.5	0.0
30	Pi/2 BPSK	1	158	15.25	15.45	15.22		
30	Pi/2 BPSK	80	0	15.96	15.43	15.45	16.5	0.0
30	Pi/2 BPSK	80	40	15.27	15.41	15.36	16.5	0.0
30	Pi/2 BPSK	80	80	15.21	15.36	15.33	16.5	0.0
30	Pi/2 BPSK	160	0	15.39	15.54	15.39		
30	QPSK	1	1	15.32	15.57	15.47		
30	QPSK	1	80	15.15	15.57	15.29	16.5	0.0
30	QPSK	1	158	15.40	15.48	15.34		
30	QPSK	80	0	15.33	15.46	15.31	16.5	0.0
30	QPSK	80	40	15.22	15.40	15.19	16.5	0.0
30	QPSK	80	80	15.35	15.51	15.32	16.5	0.0
30	QPSK	160	0	15.38	15.39	15.14	16.5	0.0
30	16QAM	1	1	15.35	15.35	15.27	16.5	0.0
30	64QAM	1	1	15.18	15.36	15.39	16.5	0.0
30	256QAM	1	1	15.34	15.41	15.24	16.5	0.0
Channel								
Frequency (MHz)				1862.5	1880	1897.5		
25	QPSK	1	1	15.12	15.39	15.29	16.5	0.0
Channel								
Frequency (MHz)				372000	376000	380000		
20	QPSK	1	1	15.12	15.41	15.38	16.5	0.0
Channel								
Frequency (MHz)				371500	376000	380500		
15	QPSK	1	1	15.23	15.39	15.29	16.5	0.0
Channel								
Frequency (MHz)				371000	376000	381000		
10	QPSK	1	1	15.26	15.38	15.34	16.5	0.0
Channel								
Frequency (MHz)				370500	376000	381500		
5	QPSK	1	1	15.21	15.49	15.30	16.5	0.0

n5 Ant4 ECI7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				836.5				
25	Pi/2 BPSK	1	1	21.59				
25	Pi/2 BPSK	1	67	21.63			23.0	0.0
25	Pi/2 BPSK	1	131	21.47				
25	Pi/2 BPSK	64	0	21.25			23.0	0.0
25	Pi/2 BPSK	64	35	21.76			23.0	0.0
25	Pi/2 BPSK	64	69	21.26			23.0	0.0
25	Pi/2 BPSK	128	0	21.40			23.0	0.0
25	QPSK	1	1	21.97				
25	QPSK	1	67	21.68			23.0	0.0
25	QPSK	1	131	21.55				
25	QPSK	64	0	21.25			23.0	0.0
25	QPSK	64	35	21.92			23.0	0.0
25	QPSK	64	69	21.73			23.0	0.0
25	QPSK	128	0	21.75			23.0	0.0
25	16QAM	1	1	21.28			23.0	0.0
25	64QAM	1	1	19.95			21.5	1.5
25	256QAM	1	1	18.92			19.5	3.5
Channel								
Frequency (MHz)				168000	167500	167500		
20	QPSK	1	1	21.78	21.77	21.63	23.0	0.0
Channel								
Frequency (MHz)				168300	167300	168300		
15	QPSK	1	1	21.81	21.71	21.67	23.0	0.0
Channel								
Frequency (MHz)				168600	167300	168600		
10	QPSK	1	1	21.90	21.73	21.73	23.0	0.0
Channel								
Frequency (MHz)				168500	167300	168500		
5	QPSK	1	1	21.88	21.83	21.73	23.0	0.0

n12 Ant4

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				706.5	707.5	708.5		
15	Pi/2 BPSK	1	1	22.83	22.92	22.86		
15	Pi/2 BPSK	1	40	22.78	22.86	22.75	24.0	0.0
15	Pi/2 BPSK	1	77	22.76	22.80	22.68		
15	Pi/2 BPSK	36	0	22.82	22.88	22.58	23.5	0.5
15	Pi/2 BPSK	36	22	22.78	22.89	22.77	24.0	0.0
15	Pi/2 BPSK	36	43	22.47	22.82	22.55		
15	Pi/2 BPSK	75	0	22.60	22.66	22.58	23.5	0.5
15	QPSK	1	1	22.90	22.97	22.86		
15	QPSK	1	40	22.87	22.89	22.80	24.0	0.0
15	QPSK	1	77	22.73	22.84	22.71		
15	QPSK	36	0	22.15	22.19	22.12	23.0	1.0
15	QPSK	36	22	22.83	22.92	22.87	24.0	0.0
15	QPSK	36	43	22.10	22.14	22.00	23.0	1.0
15	QPSK	75	0	22.10	22.19	22.14		
15	16QAM	1	1	21.72	21.82	21.76	23.0	1.0
15	64QAM	1	1	20.20	20.31	20.20	21.5	2.5
15	256QAM	1	1	18.78	18.93	18.80	19.5	4.5
Channel								
Frequency (MHz)				140300	141500	142700		
10	QPSK	1	1	22.78	22.93	22.80	24.0	0.0
Channel								
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.80	22.88	22.75	24.0	0.0



n14 Ant4 ECI7									
BW (MHz)	Modulation	RB 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	PI2 BPSK	1	1	21.83	793				
10	PI2 BPSK	1	1	21.83	793		23.0	0.0	
10	PI2 BPSK	1	26	21.58					
10	PI2 BPSK	1	50	21.57					
10	PI2 BPSK	25	0	21.61			23.0	0.0	
10	PI2 BPSK	25	14	21.58			23.0	0.0	
10	PI2 BPSK	25	27	21.57			23.0	0.0	
10	PI2 BPSK	50	0	21.55					
10	QPSK	1	1	21.69					
10	QPSK	1	26	21.67			23.0	0.0	
10	QPSK	1	50	21.56					
10	QPSK	25	0	21.58			23.0	0.0	
10	QPSK	25	14	21.67			23.0	0.0	
10	QPSK	25	27	21.61			23.0	0.0	
10	QPSK	50	0	21.60					
10	16QAM	1	1	21.44			23.0	0.0	
10	64QAM	1	1	19.87			21.5	1.5	
10	256QAM	1	1	18.45			19.5	2.5	
Channel									
Frequency (MHz)									
5	QPSK	1	1	191.00	199.00	199.100	Tune-up limit (dBm)	MPR (dB)	
				790.5	793	795.5			
				21.62	21.56	21.58			

n25 Ant4 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	15.56	182.5	182.5			
45	PI2 BPSK	1	61	15.47	15.49	15.29	16.5	0.0	
45	PI2 BPSK	1	121	15.37	15.49	15.31			
45	PI2 BPSK	121	0	15.58	15.57	15.49	16.5	0.0	
45	PI2 BPSK	121	61	15.31	15.49	15.39	16.5	0.0	
45	PI2 BPSK	121	121	15.34	15.37	15.39			
45	PI2 BPSK	242	0	15.50	15.57	15.45	16.5	0.0	
45	QPSK	1	1	15.38	15.62	15.35			
45	QPSK	1	61	15.27	15.49	15.38	16.5	0.0	
45	QPSK	1	121	15.47	15.48	15.48			
45	QPSK	121	0	15.38	15.57	15.35	16.5	0.0	
45	QPSK	121	61	15.34	15.58	15.28	16.5	0.0	
45	QPSK	121	121	15.45	15.48	15.56	16.5	0.0	
45	QPSK	242	0	15.40	15.47	15.23			
45	16QAM	1	1	15.38	15.49	15.32	16.5	0.0	
45	64QAM	1	1	15.32	15.44	15.48	16.5	0.0	
45	256QAM	1	1	13.42	15.41	15.27	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.27	15.47	15.29	0.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	373500	376500	379500	Tune-up limit (dBm)	MPR (dB)	
				182.5	182.5	182.5			
				1805	1822.5	1900			
30	QPSK	1	1	15.29	15.43	15.34	16.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
				182.5	182.5	1902.5			
				1825	1825	1902.5			
20	QPSK	1	1	15.43	15.24	15.33	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	371000	376500	381500	Tune-up limit (dBm)	MPR (dB)	
				1805	1822.5	1910			
10	QPSK	1	1	15.30	15.50	15.34	16.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	370500	376500	382000	Tune-up limit (dBm)	MPR (dB)	
				1822.5	1822.5	1912.5			
				15.32	15.50	15.28	16.5	0.0	

n26 Ant4 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	20.34	824	831.5	830		
20	PI2 BPSK	1	53	20.34	20.35	20.34			
20	PI2 BPSK	1	104	20.41	20.33	20.27	22.0	0.0	
20	PI2 BPSK	1	104	20.31	20.44	20.34			
20	PI2 BPSK	50	0	20.29	20.39	20.35	22.0	0.0	
20	PI2 BPSK	50	25	20.38	20.42	20.34	22.0	0.0	
20	PI2 BPSK	50	56	20.29	20.35	20.32	22.0	0.0	
20	PI2 BPSK	100	0	20.40	20.37	20.27			
20	QPSK	1	1	20.32	20.45	20.38			
20	QPSK	1	53	20.29	20.43	20.35	22.0	0.0	
20	QPSK	1	104	20.31	20.41	20.23			
20	QPSK	50	0	20.31	20.39	20.25	22.0	0.0	
20	QPSK	50	25	20.35	20.40	20.28	22.0	0.0	
20	QPSK	50	56	20.30	20.30	20.34	22.0	0.0	
20	QPSK	100	0	20.38	20.35	20.23			
20	16QAM	1	1	20.32	20.37	20.32	22.0	0.0	
20	64QAM	1	1	19.97	20.04	19.94	21.5	0.5	
20	256QAM	1	1	18.61	18.62	18.59	19.5	2.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.36	831.5	841.5	Tune-up limit (dBm)	MPR (dB)	
				163800	166300	168800			
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.29	20.39	20.30	22.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.42	20.37	20.32	22.0	0.0	

21.34
21.82



n66 Ant4 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1722.5	1745	1767.5			
45	PI2 BPSK	1	1	15.84	15.81	15.78			
45	PI2 BPSK	1	61	15.75	15.88	15.75	17.0	0.0	
45	PI2 BPSK	1	121	15.84	15.75	15.69			
45	PI2 BPSK	121	0	15.85	15.78	15.70	17.0	0.0	
45	PI2 BPSK	121	61	15.78	15.82	15.76	17.0	0.0	
45	PI2 BPSK	121	121	15.71	15.85	15.74	17.0	0.0	
45	PI2 BPSK	242	0	15.85	15.79	15.73			
45	QPSK	1	1	15.72	15.89	15.69			
45	QPSK	1	61	15.72	15.83	15.74	17.0	0.0	
45	QPSK	1	121	15.85	15.83	15.68			
45	QPSK	121	0	15.85	15.83	15.77	17.0	0.0	
45	QPSK	121	61	15.79	15.88	15.75	17.0	0.0	
45	QPSK	121	121	15.73	15.81	15.75	17.0	0.0	
45	QPSK	242	0	15.81	15.86	15.73			
45	16QAM	1	1	15.80	15.79	15.69	17.0	0.0	
45	64QAM	1	1	15.72	15.87	15.66	17.0	0.0	
45	256QAM	1	1	15.72	15.75	15.76	17.0	0.0	
Channel									
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	15.81	15.78	15.80	17.0	0.0	
Channel									
Frequency (MHz)				345500	349000	352500			
35	QPSK	1	1	15.81	15.78	15.80	17.0	0.0	
Channel									
Frequency (MHz)				345000	349000	353000			
30	QPSK	1	1	15.83	15.77	15.75	17.0	0.0	
Channel									
Frequency (MHz)				345000	349000	353000			
25	QPSK	1	1	15.81	15.80	15.75	17.0	0.0	
Channel									
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	15.76	15.88	15.76	17.0	0.0	
Channel									
Frequency (MHz)				345000	349000	354000			
15	QPSK	1	1	15.78	15.88	15.65	17.0	0.0	
Channel									
Frequency (MHz)				343000	349000	355000			
10	QPSK	1	1	15.81	15.75	15.75	17.0	0.0	
Channel									
Frequency (MHz)				342500	349000	355500			
5	QPSK	1	1	15.85	15.84	15.78	17.0	0.0	

n70 Ant4 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1722.5					
15	PI2 BPSK	1	1	16.35					
15	PI2 BPSK	1	40	16.36			17.5	0.0	
15	PI2 BPSK	1	77	16.43					
15	PI2 BPSK	36	0	16.34			17.5	0.0	
15	PI2 BPSK	36	22	16.32			17.5	0.0	
15	PI2 BPSK	36	43	16.33			17.5	0.0	
15	PI2 BPSK	75	0	16.36					
15	QPSK	1	1	16.44					
15	QPSK	1	40	16.31			17.5	0.0	
15	QPSK	1	77	16.38					
15	QPSK	36	0	16.31			17.5	0.0	
15	QPSK	36	22	16.41			17.5	0.0	
15	QPSK	36	43	16.40			17.5	0.0	
15	QPSK	75	0	16.31					
15	16QAM	1	1	16.37			17.5	0.0	
15	64QAM	1	1	16.39			17.5	0.0	
15	256QAM	1	1	16.32			17.5	0.0	
Channel									
Frequency (MHz)				340000	345000	341000			
10	QPSK	1	1	16.32	16.41	16.36	17.5	0.0	
Channel									
Frequency (MHz)				339500	340500	341500			
5	QPSK	1	1	16.38	16.39	16.30	17.5	0.0	

n71 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				675	680.5	685			
20	PI2 BPSK	1	1	23.10	23.19	23.07			
20	PI2 BPSK	1	53	22.93	23.01	22.88	24.0	0.0	
20	PI2 BPSK	1	104	22.74	22.87	22.78			
20	PI2 BPSK	50	0	22.54	22.68	22.60	23.5	0.5	
20	PI2 BPSK	50	25	23.12	23.16	23.13	24.0	0.0	
20	PI2 BPSK	50	56	22.59	22.62	22.58	23.5	0.5	
20	PI2 BPSK	100	0	22.55	22.66	22.61			
20	QPSK	1	1	23.23	23.26	23.18			
20	QPSK	1	53	23.00	23.08	22.93	24.0	0.0	
20	QPSK	1	104	22.79	22.93	22.84			
20	QPSK	50	0	22.03	22.15	22.05	23.0	1.0	
20	QPSK	50	25	23.19	23.22	23.15	24.0	0.0	
20	QPSK	50	56	21.91	22.05	22.01	23.0	1.0	
20	QPSK	100	0	22.06	22.11	22.02			
20	16QAM	1	1	21.70	21.77	21.67	23.0	1.0	
20	64QAM	1	1	20.18	20.23	20.11	21.5	2.5	
20	256QAM	1	1	19.75	19.82	19.70	19.5	4.5	
Channel									
Frequency (MHz)				133000	136000	139000			
15	QPSK	1	1	23.09	23.13	23.11	24.0	0.0	
Channel									
Frequency (MHz)				133600	136100	138600			
10	QPSK	1	1	23.08	23.21	23.06	24.0	0.0	
Channel									
Frequency (MHz)				133100	136100	139100			
5	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	



n41 Ant4 PC3&2 ECI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	10.20	10.79	10.55		
100	PI/2 BPSK	1	137	10.25	10.72	10.56	11.5	0.0
100	PI/2 BPSK	1	271	10.23	10.82	10.67		
100	PI/2 BPSK	135	0	10.22	10.80	10.67	11.5	0.0
100	PI/2 BPSK	135	69	10.28	10.84	10.61	11.5	0.0
100	PI/2 BPSK	135	138	10.32	10.79	10.61	11.5	0.0
100	PI/2 BPSK	270	0	10.32	10.85	10.64		
100	QPSK	1	1	10.27	10.78	10.58		
100	QPSK	1	137	10.30	10.87	10.55	11.5	0.0
100	QPSK	1	271	10.26	10.74	10.64		
100	QPSK	135	0	10.22	10.86	10.58	11.5	0.0
100	QPSK	135	69	10.28	10.75	10.61	11.5	0.0
100	QPSK	135	138	10.23	10.84	10.61	11.5	0.0
100	QPSK	270	0	10.20	10.73	10.59		
100	16QAM	1	1	10.25	10.79	10.57	11.5	0.0
100	64QAM	1	1	10.21	10.75	10.65	11.5	0.0
100	256QAM	1	1	10.22	10.73	10.64	11.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	10.29	10.80	10.56	11.5	0.0
Channel				507204	518598	529998	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2533.02	2592.99	2649.98		
80	QPSK	1	1	10.24	10.80	10.68	11.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	10.25	10.83	10.58	11.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	10.22	10.76	10.65	11.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	10.30	10.75	10.68	11.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	10.27	10.77	10.64	11.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	10.32	10.80	10.62	11.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	10.31	10.77	10.57	11.5	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	10.30	10.79	10.57	11.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	10.23	10.79	10.57	11.5	0.0



n48 Ant5 Part96 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	11.44	11.52	11.44			
40	PI2 BPSK	1	53	11.43	11.60	11.43	13.0	0.0	
40	PI2 BPSK	1	104	11.43	11.54	11.39	13.0	0.0	
40	PI2 BPSK	50	9	11.38	11.82	11.39	13.0	0.0	
40	PI2 BPSK	50	28	11.31	11.52	11.41	13.0	0.0	
40	PI2 BPSK	50	56	11.31	11.53	11.45	13.0	0.0	
40	PI2 BPSK	100	9	11.36	11.80	11.44			
40	QPSK	1	1	11.32	11.55	11.42			
40	QPSK	1	53	11.30	11.85	11.38	13.0	0.0	
40	QPSK	1	104	11.35	11.51	11.33			
40	QPSK	50	9	11.44	11.55	11.39	13.0	0.0	
40	QPSK	50	28	11.32	11.83	11.37	13.0	0.0	
40	QPSK	50	56	11.42	11.54	11.44			
40	QPSK	100	9	11.31	11.80	11.40			
40	16QAM	1	1	11.35	11.64	11.38	13.0	0.0	
40	16QAM	1	1	11.37	11.56	11.39	13.0	0.0	
40	256QAM	1	1	11.35	11.55	11.34	13.0	0.0	
Channel				637834	641000	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3550.01	3624.99	3690			
20	QPSK	1	1	11.40	11.61	11.32	13.0	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.42	3624.99	3692.49			
15	QPSK	1	1	11.29	11.61	11.20	13.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	11.34	11.63	11.42	13.0	0.0	

5.15

Part270 n77 Ant5 PC3&PC2 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	652000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	14.00	14.00	13.90			
100	PI2 BPSK	1	137	14.04	14.00	13.95	15.0	0.0	
100	PI2 BPSK	1	271	14.07	14.00	14.01			
100	PI2 BPSK	135	9	14.07	14.12	14.00	15.0	0.0	
100	PI2 BPSK	135	69	13.95	14.02	13.98	15.0	0.0	
100	PI2 BPSK	135	138	13.95	14.04	13.95	15.0	0.0	
100	PI2 BPSK	270	0	14.05	14.07	13.97			
100	QPSK	1	1	13.96	14.03	13.98			
100	QPSK	1	137	13.95	14.13	13.89	15.0	0.0	
100	QPSK	1	271	14.07	14.05	13.92			
100	QPSK	135	0	13.95	14.01	13.99	15.0	0.0	
100	QPSK	135	69	13.96	14.05	13.93	15.0	0.0	
100	QPSK	135	138	13.97	14.04	13.97	15.0	0.0	
100	QPSK	270	0	13.96	14.01	14.02			
100	16QAM	1	1	14.08	14.02	13.99	15.0	0.0	
100	16QAM	1	1	13.94	14.09	13.95	15.0	0.0	
100	256QAM	1	1	14.01	14.04	13.92	15.0	0.0	
Channel				649668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	14.04	14.04	13.99	15.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	13.98	14.08	13.92	15.0	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	14.00	14.07	13.99	15.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	14.04	14.08	14.01	15.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	13.94	14.04	14.01	15.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	14.06	14.07	13.99	15.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	14.03	14.11	14.01	15.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	14.02	14.11	14.00	15.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	13.98	14.02	14.01	15.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	14.06	14.01	13.90	15.0	0.0	

Part270Q n77 Ant5 PC3&PC2 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	635000			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1			14.06			
100	PI2 BPSK	1	137			13.99	15.0	0.0	
100	PI2 BPSK	1	271			14.05			
100	PI2 BPSK	135	0			13.93	15.0	0.0	
100	PI2 BPSK	135	69			13.98	15.0	0.0	
100	PI2 BPSK	135	138			14.05	15.0	0.0	
100	PI2 BPSK	270	0			14.04			
100	QPSK	1	1			13.96			
100	QPSK	1	137			14.07	15.0	0.0	
100	QPSK	1	271			13.99			
100	QPSK	135	0			13.98	15.0	0.0	
100	QPSK	135	69			14.04	15.0	0.0	
100	QPSK	135	138			14.03	15.0	0.0	
100	QPSK	270	0			14.02			
100	16QAM	1	1			14.05	15.0	0.0	
100	16QAM	1	1			14.06	15.0	0.0	
100	256QAM	1	1			14.03	15.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	14.03	13.97	13.88	15.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	13.97	14.00	13.95	15.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	13.99	14.05	13.98	15.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	14.04	14.01	13.89	15.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	13.98	14.03	13.89	15.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	13.95	14.03	13.94	15.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	13.95	13.95	13.95	15.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	14.00	14.02	13.89	15.0	0.0	
Channel				630200	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.02			
15	QPSK	1	1	13.97	13.95	13.97	15.0	0.0	
Channel				630834	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	13.93	13.94	13.87	15.0	0.0	



Part270 n78 Ant5 PC3&PC2 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				14.05	14.02	14.03			
100	PI/2 BPSK	1	1				15.0	0.0	
100	PI/2 BPSK	1	137						
100	PI/2 BPSK	1	271		14.11				
100	PI/2 BPSK	135	0		14.15		15.0	0.0	
100	PI/2 BPSK	135	69		14.09		15.0	0.0	
100	PI/2 BPSK	135	138		14.04		15.0	0.0	
100	PI/2 BPSK	270	0		14.08				
100	QPSK	1	1		14.14				
100	QPSK	1	137		14.16		15.0	0.0	
100	QPSK	1	271		14.13				
100	QPSK	135	0		14.05		15.0	0.0	
100	QPSK	135	69		14.13		15.0	0.0	
100	QPSK	135	138		14.12		15.0	0.0	
100	QPSK	270	0		14.05		15.0	0.0	
100	16QAM	1	1		14.02		15.0	0.0	
100	64QAM	1	1		14.09		15.0	0.0	
100	256QAM	1	1		14.02		15.0	0.0	
Channel				64988	65000	65034	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		13.96	14.13	14.05	15.0	0.0
Channel				64934	65000	65068	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		14.00	14.07	14.00	15.0	0.0
Channel				64900	65000	65100	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		13.97	14.14	14.03	15.0	0.0
Channel				64868	65000	65134	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3730.01	(dBm)	(dB)	
60	QPSK	1	1		14.07	14.12	13.96	15.0	0.0
Channel				64834	65000	65168	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		14.03	14.09	14.00	15.0	0.0
Channel				64800	65000	65200	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		13.96	14.08	14.00	15.0	0.0
Channel				64768	65000	65234	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3735.01	(dBm)	(dB)	
30	QPSK	1	1		14.02	14.03	14.02	15.0	0.0
Channel				64734	65000	65268	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		14.05	14.07	14.00	15.0	0.0
Channel				64700	65000	65284	Tune-up limit	MPR	
Frequency (MHz)				3705.02	3750	3792.01	(dBm)	(dB)	
15	QPSK	1	1		14.04	14.13	13.99	15.0	0.0
Channel				64700	65000	65300	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		14.00	14.10	13.94	15.0	0.0

Part27Q n78 Ant5 PC3&PC2 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						3500.01			
Frequency (MHz)						14.03			
100	PI/2 BPSK	1	1						
100	PI/2 BPSK	1	137			14.04			
100	PI/2 BPSK	1	271			14.02		15.0	0.0
100	PI/2 BPSK	135	0			14.00		15.0	0.0
100	PI/2 BPSK	135	69			14.04		15.0	0.0
100	PI/2 BPSK	135	138			14.09		15.0	0.0
100	PI/2 BPSK	270	0			14.09			
100	QPSK	1	1			14.15			
100	QPSK	1	137			14.12		15.0	0.0
100	QPSK	1	271			14.14			
100	QPSK	135	0			14.01		15.0	0.0
100	QPSK	135	69			14.12		15.0	0.0
100	QPSK	135	138			14.03		15.0	0.0
100	QPSK	270	0			14.04		15.0	0.0
100	16QAM	1	1			14.01		15.0	0.0
100	64QAM	1	1			14.03		15.0	0.0
100	256QAM	1	1			14.07		15.0	0.0
Channel				63060	63334	63668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1		14.03	14.07	13.98	15.0	0.0
Channel				63068	63334	63400	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1		14.04	14.12	13.94	15.0	0.0
Channel				63034	63334	63434	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1		14.05	14.07	13.99	15.0	0.0
Channel				63000	63334	63468	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3509.02	(dBm)	(dB)	
60	QPSK	1	1		14.09	14.06	13.97	15.0	0.0
Channel				63168	63334	63600	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1		14.02	14.10	13.91	15.0	0.0
Channel				63134	63334	63568	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1		14.09	14.07	13.93	15.0	0.0
Channel				63100	63334	63568	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1		14.02	14.04	14.02	15.0	0.0
Channel				63068	63334	63600	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1		14.08	14.07	13.95	15.0	0.0
Channel				63000	63334	63618	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3542.01	(dBm)	(dB)	
15	QPSK	1	1		13.97	14.05	14.00	15.0	0.0
Channel				63034	63334	63634	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1		14.08	14.01	13.90	15.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.17	17.36	17.17		
100	PI/2 BPSK	1	137	17.22	17.39	17.18	18.0	0.0
100	PI/2 BPSK	1	271	17.19	17.40	17.10		
100	PI/2 BPSK	135	0	17.20	17.38	17.11	18.0	0.0
100	PI/2 BPSK	135	69	17.22	17.28	17.20	18.0	0.0
100	PI/2 BPSK	135	138	17.26	17.42	17.16	18.0	0.0
100	PI/2 BPSK	270	0	17.17	17.36	17.12		
100	QPSK	1	1	17.19	17.34	17.17		
100	QPSK	1	137	17.17	17.43	17.11	18.0	0.0
100	QPSK	1	271	17.16	17.40	17.21		
100	QPSK	135	0	17.28	17.34	17.15	18.0	0.0
100	QPSK	135	69	17.23	17.40	17.11	18.0	0.0
100	QPSK	135	138	17.25	17.38	17.10	18.0	0.0
100	QPSK	270	0	17.27	17.33	17.22		
100	16QAM	1	1	17.22	17.29	17.09	18.0	0.0
100	64QAM	1	1	17.28	17.29	17.12	18.0	0.0
100	256QAM	1	1	17.27	17.41	17.21	18.0	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.01	17.21	16.87	18.0	0.0
Channel				507204	518598	529996		
Frequency (MHz)				2533.02	2592.99	2649.98		
80	QPSK	1	1	17.02	17.19	16.87	18.0	0.0
Channel				506202	518598	531900		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.02	17.21	16.94	18.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	16.93	17.22	16.91	18.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	16.96	17.23	16.88	18.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	16.98	17.22	16.90	18.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	16.96	17.27	16.88	18.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	16.97	17.25	16.89	18.0	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	16.93	17.27	16.94	18.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.00	17.19	16.88	18.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	14.33	14.40	14.40		
100	PI2 BPSK	1	137	14.28	14.28	14.30	15.5	0.0
100	PI2 BPSK	1	271	14.36	14.32	14.19		
100	PI2 BPSK	138	0	14.32	14.37	14.22	15.5	0.0
100	PI2 BPSK	138	69	14.27	14.34	14.32	15.5	0.0
100	PI2 BPSK	138	138	14.36	14.31	14.28	15.5	0.0
100	PI2 BPSK	270	0	14.26	14.40	14.21		
100	QPSK	1	1	14.26	14.33	14.22		
100	QPSK	1	137	14.32	14.41	14.28	15.5	0.0
100	QPSK	1	271	14.31	14.33	14.32		
100	QPSK	138	0	14.23	14.35	14.21	15.5	0.0
100	QPSK	138	69	14.26	14.37	14.19	15.5	0.0
100	QPSK	138	138	14.34	14.33	14.29	15.5	0.0
100	QPSK	270	0	14.33	14.35	14.20		
100	16QAM	1	1	14.34	14.32	14.20	15.5	0.0
100	64QAM	1	1	14.35	14.30	14.20	15.5	0.0
100	256QAM	1	1	14.35	14.31	14.30	15.5	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	14.16	14.22	14.04	15.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	14.16	14.21	14.04	15.5	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	14.09	14.25	14.12	15.5	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	14.07	14.18	14.07	15.5	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	14.08	14.16	14.03	15.5	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	14.11	14.16	14.07	15.5	0.0
Channel				647668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	14.10	14.17	14.09	15.5	0.0
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	14.14	14.26	14.03	15.5	0.0
Channel				647168	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705.02	3840	3975.01		
15	QPSK	1	1	14.12	14.24	14.11	15.5	0.0
Channel				647000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	14.14	14.22	14.10	15.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	14.34	14.34	14.34		
100	PI2 BPSK	1	137	14.35	14.35	14.35	15.5	0.0
100	PI2 BPSK	1	271	14.36	14.36	14.36		
100	PI2 BPSK	138	0	14.39	14.39	14.39	15.5	0.0
100	PI2 BPSK	138	69	14.32	14.32	14.32	15.5	0.0
100	PI2 BPSK	138	138	14.40	14.40	14.40	15.5	0.0
100	PI2 BPSK	270	0	14.41	14.41	14.41		
100	QPSK	1	1	14.33	14.33	14.33		
100	QPSK	1	137	14.45	14.45	14.45	15.5	0.0
100	QPSK	1	271	14.40	14.40	14.40		
100	QPSK	138	0	14.30	14.30	14.30	15.5	0.0
100	QPSK	138	69	14.40	14.40	14.40	15.5	0.0
100	QPSK	138	138	14.38	14.38	14.38	15.5	0.0
100	QPSK	270	0	14.38	14.38	14.38		
100	16QAM	1	1	14.40	14.40	14.40	15.5	0.0
100	64QAM	1	1	14.34	14.34	14.34	15.5	0.0
100	256QAM	1	1	14.40	14.40	14.40	15.5	0.0
Channel				633800	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	14.12	14.22	14.09	15.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	14.15	14.25	14.10	15.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	14.16	14.22	14.08	15.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	14.14	14.26	14.08	15.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	14.16	14.25	14.03	15.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	14.10	14.17	14.11	15.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	14.15	14.19	14.09	15.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	14.08	14.24	14.12	15.5	0.0
Channel				630300	633334	636368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.02	3500.01	3545.02		
15	QPSK	1	1	14.12	14.21	14.12	15.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	14.11	14.22	14.05	15.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	14.33	14.43	14.43		
100	PI2 BPSK	1	137	14.41	14.41	14.41	15.5	0.0
100	PI2 BPSK	1	271	14.40	14.40	14.40		
100	PI2 BPSK	138	0	14.43	14.43	14.43	15.5	0.0
100	PI2 BPSK	138	69	14.40	14.40	14.40	15.5	0.0
100	PI2 BPSK	138	138	14.40	14.40	14.40	15.5	0.0
100	PI2 BPSK	270	0	14.42	14.42	14.42		
100	QPSK	1	1	14.36	14.36	14.36		
100	QPSK	1	137	14.48	14.48	14.48	15.5	0.0
100	QPSK	1	271	14.40	14.40	14.40		
100	QPSK	138	0	14.35	14.35	14.35	15.5	0.0
100	QPSK	138	69	14.47	14.47	14.47	15.5	0.0
100	QPSK	138	138	14.46	14.46	14.46	15.5	0.0
100	QPSK	270	0	14.43	14.43	14.43		
100	16QAM	1	1	14.43	14.43	14.43	15.5	0.0
100	64QAM	1	1	14.39	14.39	14.39	15.5	0.0
100	256QAM	1	1	14.38	14.38	14.38	15.5	0.0
Channel				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	14.12	14.20	14.11	15.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	14.13	14.12	14.10	15.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	14.19	14.14	14.14	15.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	14.17	14.18	14.10	15.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	14.13	14.17	14.11	15.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	14.19	14.19	14.16	15.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	14.13	14.20	14.09	15.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	14.12	14.18	14.12	15.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705.02	3750	3792.01		
15	QPSK	1	1	14.13	14.16	14.15	15.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	14.15	14.16	14.11	15.5	0.0



Part27Q n78 Ant8 PC3&PC2 EC17							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	MPR (dB)
Channel				633334		3500.01	
Frequency (MHz)						14.37	
100	PI2 BPSK	1	1		14.37		
100	PI2 BPSK	1	137		14.35		15.5
100	PI2 BPSK	1	271		14.31		15.5
100	PI2 BPSK	135	0		14.44		15.5
100	PI2 BPSK	135	69		14.39		15.5
100	PI2 BPSK	135	138		14.39		15.5
100	PI2 BPSK	270	0		14.34		15.5
100	QPSK	1	1		14.33		15.5
100	QPSK	1	137		14.46		15.5
100	QPSK	1	271		14.43		15.5
100	QPSK	135	0		14.37		15.5
100	QPSK	135	69		14.44		15.5
100	QPSK	135	138		14.43		15.5
100	QPSK	270	0		14.38		15.5
100	16QAM	1	1		14.36		15.5
100	64QAM	1	1		14.45		15.5
100	256QAM	1	1		14.32		15.5
Channel				633000	633334	633668	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02	
90	QPSK	1	1	14.17	14.17	14.08	15.5
Channel				632668	633334	634000	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	
80	QPSK	1	1	14.17	14.18	14.13	15.5
Channel				632334	633334	634334	MPR (dB)
Frequency (MHz)				3488.01	3500.01	3515.01	
70	QPSK	1	1	14.14	14.16	14.11	15.5
Channel				632000	633334	634668	MPR (dB)
Frequency (MHz)				3489	3500.01	3520.02	
60	QPSK	1	1	14.18	14.19	14.13	15.5
Channel				631668	633334	635000	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	1	14.11	14.20	14.16	15.5
Channel				631334	633334	635334	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	1	14.14	14.18	14.13	15.5
Channel				631000	633334	635668	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	1	14.12	14.12	14.14	15.5
Channel				630668	633334	636000	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	1	14.11	14.19	14.14	15.5
Channel				630300	633334	636168	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.02	
15	QPSK	1	1	14.11	14.18	14.12	15.5
Channel				630334	633334	636334	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01	
10	QPSK	1	1	14.11	14.20	14.10	15.5



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Part270 n77 Ant5 PC2&PC3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				65000	65000	65000			
3750				3840	3930				
100	PI2 BPSK	1	1	13.09	13.13	13.04			
100	PI2 BPSK	1	137	13.95	14.01	13.88	15.0	0.0	
100	PI2 BPSK	1	271	12.99	13.01	12.99			
100	PI2 BPSK	135	0	13.86	13.92	13.90	15.0	0.0	
100	PI2 BPSK	135	69	13.72	13.87	13.75	15.0	0.0	
100	PI2 BPSK	135	138	13.75	13.81	13.72			
100	PI2 BPSK	270	0	13.88	13.82	13.75	15.0	0.0	
100	QPSK	1	1	13.04	13.04	13.04			
100	QPSK	1	137	13.93	14.14	13.97	15.0	0.0	
100	QPSK	1	271	12.98	13.02	12.90			
100	QPSK	135	0	13.83	13.87	13.76	15.0	0.0	
100	QPSK	135	69	13.94	13.94	13.81	15.0	0.0	
100	QPSK	135	138	13.85	13.76	13.75			
100	QPSK	270	0	13.75	13.86	13.82	15.0	0.0	
100	16QAM	1	1	13.10	13.20	13.09	15.0	0.0	
100	16QAM	1	1	13.00	13.13	13.12	15.0	0.0	
100	256QAM	1	1	13.14	13.17	13.10	15.0	0.0	
Channel									
Frequency (MHz)				649668	650000	650000			
3745.02				3840	3935.01				
90	QPSK	1	1	13.79	13.93	13.85	15.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650000			
3742.01				3840	3943.02				
80	QPSK	1	1	13.77	13.85	13.82	15.0	0.0	
Channel									
Frequency (MHz)				649000	650000	650000			
3735				3840	3945				
70	QPSK	1	1	13.74	13.93	13.87	15.0	0.0	
Channel									
Frequency (MHz)				648668	650000	650000			
3732.01				3840	3950.01				
60	QPSK	1	1	13.82	13.90	13.81	15.0	0.0	
Channel									
Frequency (MHz)				648334	650000	650000			
3725.01				3840	3955.02				
50	QPSK	1	1	13.73	13.88	13.85	15.0	0.0	
Channel									
Frequency (MHz)				648000	650000	650000			
3720.02				3840	3960.01				
40	QPSK	1	1	13.80	13.94	13.79	15.0	0.0	
Channel									
Frequency (MHz)				647668	650000	650000			
3715.02				3840	3965.01				
30	QPSK	1	1	13.74	13.91	13.89	15.0	0.0	
Channel									
Frequency (MHz)				647334	650000	650000			
3710.01				3840	3970.02				
20	QPSK	1	1	13.81	13.92	13.87	15.0	0.0	
Channel									
Frequency (MHz)				647168	650000	650000			
3707.52				3840	3975.51				
15	QPSK	1	1	13.75	13.86	13.82	15.0	0.0	
Channel									
Frequency (MHz)				647000	650000	650000			
3705				3840	3975				
10	QPSK	1	1	13.77	13.91	13.85	15.0	0.0	

Part270 n77 Ant5 PC2&PC3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633000	633334	633334			
3500.01									
100	PI2 BPSK	1	1		13.13				
100	PI2 BPSK	1	137		13.95		15.0	0.0	
100	PI2 BPSK	1	271		13.03				
100	PI2 BPSK	135	0		13.85		15.0	0.0	
100	PI2 BPSK	135	69		13.92		15.0	0.0	
100	PI2 BPSK	135	138		13.82				
100	PI2 BPSK	270	0		13.76		15.0	0.0	
100	QPSK	1	1		13.16				
100	QPSK	1	137		14.04		15.0	0.0	
100	QPSK	1	271		12.99				
100	QPSK	135	0		13.89		15.0	0.0	
100	QPSK	135	69		13.91		15.0	0.0	
100	QPSK	135	138		13.80				
100	QPSK	270	0		13.90		15.0	0.0	
100	16QAM	1	1		13.13		15.0	0.0	
100	16QAM	1	1		13.06		15.0	0.0	
100	256QAM	1	1		13.16		15.0	0.0	
Channel									
Frequency (MHz)				633000	633334	633668			
3495				3500.01	3505.02				
90	QPSK	1	1	13.83	13.83	13.85	15.0	0.0	
Channel									
Frequency (MHz)				632668	633334	634000			
3490.02				3500.01	3510				
80	QPSK	1	1	13.12	13.22	13.25	15.0	0.0	
Channel									
Frequency (MHz)				632334	633334	634334			
3485.01				3500.01	3515.01				
70	QPSK	1	1	13.84	13.75	13.81	15.0	0.0	
Channel									
Frequency (MHz)				632000	633334	634668			
3480.02				3500.01	3520.02				
60	QPSK	1	1	13.72	13.81	13.84	15.0	0.0	
Channel									
Frequency (MHz)				631668	633334	635000			
3475.02				3500.01	3525				
50	QPSK	1	1	13.80	13.82	13.74	15.0	0.0	
Channel									
Frequency (MHz)				631334	633334	635334			
3470.01				3500.01	3530.01				
40	QPSK	1	1	13.72	13.81	13.85	15.0	0.0	
Channel									
Frequency (MHz)				631000	633334	635668			
3465				3500.01	3535.02				
30	QPSK	1	1	13.88	13.82	13.70	15.0	0.0	
Channel									
Frequency (MHz)				630668	633334	636000			
3460.02				3500.01	3540				
20	QPSK	1	1	13.72	13.75	13.75	15.0	0.0	
Channel									
Frequency (MHz)				630300	633334	636368			
3455				3500.01	3545.52				
15	QPSK	1	1	13.89	13.78	13.72	15.0	0.0	
Channel									
Frequency (MHz)				630334	633334	636334			
3455.01				3500.01	3545.01				
10	QPSK	1	1	13.71	13.75	13.83	15.0	0.0	

Part270 n78 Ant5 PC2&PC3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				655000	655000	655000			
3750				3750	3750				
100	PI2 BPSK	1	1		13.06				
100	PI2 BPSK	1	137		13.81		15.0	0.0	
100	PI2 BPSK	1	271		12.99				
100	PI2 BPSK	135	0		13.71		15.0	0.0	
100	PI2 BPSK	135	69		13.81		15.0	0.0	
100	PI2 BPSK	135	138		13.89				
100	PI2 BPSK	270	0		13.84		15.0	0.0	
100	QPSK	1	1		13.11				
100	QPSK	1	137		13.87		15.0	0.0	
100	QPSK	1	271		12.92				
100	QPSK	135	0		13.76		15.0	0.0	
100	QPSK	135	69		13.78		15.0	0.0	
100	QPSK	135	138		13.77				
100	QPSK	270	0		13.85		15.0	0.0	
100	16QAM	1	1		13.07		15.0	0.0	
100	16QAM	1	1		12.97		15.0	0.0	
100	256QAM	1	1		13.17		15.0	0.0	
Channel									
Frequency (MHz)				649868	650000	650334			
3745.02				3750	3755.01				
90	QPSK	1	1	13.58	13.70	13.67	15.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668			
3740.01				3750	3760.02				
80	QPSK	1	1	13.82	13.84	13.82	15.0	0.0	
Channel									
Frequency (MHz)				649000	650000	651000			
3735				3750	3765				
70	QPSK	1	1	13.65	13.84	13.80	15.0	0.0	
Channel									
Frequency (MHz)				648668	650000	651334			
3730.02				3750	3770.01				
60	QPSK	1	1	13.58	13.70	13.65	15.0	0.0	
Channel									
Frequency (MHz)				648334	650000	651668			
3725.01				3750	3775.02				
50	QPSK	1	1	13.82	13.71	13.61	15.0	0.0	
Channel									
Frequency (MHz)				648000	650000	652000			
3720.01				3750	3780				
40	QPSK	1	1	13.53	13.69	13.61	15.0	0.0	
Channel									
Frequency (MHz)				647668	650000	652334			
3715.02				3750	3785.01				
30	QPSK	1	1	13.89	13.82	13.84	15.0	0.0	
Channel									
Frequency (MHz)				647334	650000	652668			
3710.01				3750	3790.02				



Part27Q n78 Ant5 PC2&PC3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01	633334			
100	Pl2 BPSK	1	1		13.03			
100	Pl2 BPSK	1	137		13.80		15.0	0.0
100	Pl2 BPSK	1	271		12.93			
100	Pl2 BPSK	135	0		13.84		15.0	0.0
100	Pl2 BPSK	135	69		13.91		15.0	0.0
100	Pl2 BPSK	135	138		13.70		15.0	0.0
100	Pl2 BPSK	270	0		13.70			
100	QPSK	1	1		13.99			
100	QPSK	1	137		13.96		15.0	0.0
100	QPSK	1	271		12.96			
100	QPSK	135	0		13.78		15.0	0.0
100	QPSK	135	69		13.81		15.0	0.0
100	QPSK	135	138		13.72		15.0	0.0
100	QPSK	270	0		13.88			
100	16QAM	1	1		13.08		15.0	0.0
100	64QAM	1	1		12.96		15.0	0.0
100	256QAM	1	1		13.11		15.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	13.53	13.61	13.62	15.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	13.54	13.66	13.70	15.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	13.59	13.71	13.59	15.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3500.02		
60	QPSK	1	1	13.56	13.60	13.70	15.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	13.51	13.57	13.60	15.0	0.0
Channel				631334	633334	633334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	13.52	13.62	13.59	15.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	13.58	13.61	13.64	15.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	13.54	13.71	13.62	15.0	0.0
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	13.58	13.61	13.61	15.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	13.55	13.64	13.64	15.0	0.0



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Part270 n77 Ant5 PC2&PC3									
BW [MHz]	Modulation	RB 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	13.09	13.13	13.04	15.0	0.0	
100	PI2 BPSK	1	137	13.95	14.01	13.88			
100	PI2 BPSK	1	271	12.99	13.01	12.89			
100	PI2 BPSK	135	0	13.86	13.92	13.90	15.0	0.0	
100	PI2 BPSK	135	69	13.72	13.87	13.75	15.0	0.0	
100	PI2 BPSK	135	138	13.75	13.81	13.72	15.0	0.0	
100	PI2 BPSK	270	0	13.88	13.82	13.75	15.0	0.0	
100	QPSK	1	1	13.04	13.04	13.04	15.0	0.0	
100	QPSK	1	137	13.93	14.14	13.97			
100	QPSK	1	271	12.98	13.02	12.90			
100	QPSK	135	0	13.83	13.87	13.76	15.0	0.0	
100	QPSK	135	69	13.94	13.94	13.81	15.0	0.0	
100	QPSK	135	138	13.65	13.76	13.75	15.0	0.0	
100	QPSK	270	0	13.75	13.86	13.82	15.0	0.0	
100	16QAM	1	1	13.10	13.20	13.09	15.0	0.0	
100	16QAM	1	1	13.00	13.13	13.12	15.0	0.0	
100	256QAM	1	1	13.14	13.17	13.10	15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.79	13.93	13.85	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.77	13.85	13.82	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.74	13.93	13.87	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.82	13.90	13.81	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.73	13.88	13.85	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.80	13.94	13.79	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.74	13.91	13.80	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.81	13.92	13.87	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.75	13.86	13.82	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.77	13.91	13.85	15.0	0.0	

Part270 n77 Ant5 PC2&PC3									
BW [MHz]	Modulation	RB 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		13.13		15.0	0.0	
100	PI2 BPSK	1	137		13.95				
100	PI2 BPSK	1	271		13.03				
100	PI2 BPSK	135	0		13.85		15.0	0.0	
100	PI2 BPSK	135	69		13.92		15.0	0.0	
100	PI2 BPSK	135	138		13.82		15.0	0.0	
100	PI2 BPSK	270	0		13.76		15.0	0.0	
100	QPSK	1	1		13.16		15.0	0.0	
100	QPSK	1	137		14.04				
100	QPSK	1	271		12.99				
100	QPSK	135	0		13.89		15.0	0.0	
100	QPSK	135	69		13.91		15.0	0.0	
100	QPSK	135	138		13.80		15.0	0.0	
100	QPSK	270	0		13.90		15.0	0.0	
100	16QAM	1	1		13.13		15.0	0.0	
100	16QAM	1	1		13.06		15.0	0.0	
100	256QAM	1	1		13.16		15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.83	13.83	13.85	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.12	13.22	13.25	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.84	13.75	13.81	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.72	13.81	13.84	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.80	13.82	13.74	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.72	13.81	13.85	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.88	13.82	13.70	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.72	13.75	13.75	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.69	13.78	13.72	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.71	13.75	13.83	15.0	0.0	

Part270 n78 Ant5 PC2&PC3									
BW [MHz]	Modulation	RB 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		13.06		15.0	0.0	
100	PI2 BPSK	1	137		13.81				
100	PI2 BPSK	1	271		12.90				
100	PI2 BPSK	135	0		13.71		15.0	0.0	
100	PI2 BPSK	135	69		13.81		15.0	0.0	
100	PI2 BPSK	135	138		13.89		15.0	0.0	
100	PI2 BPSK	270	0		13.84		15.0	0.0	
100	QPSK	1	1		13.11		15.0	0.0	
100	QPSK	1	137		13.87				
100	QPSK	1	271		12.92				
100	QPSK	135	0		13.76		15.0	0.0	
100	QPSK	135	69		13.78		15.0	0.0	
100	QPSK	135	138		13.77		15.0	0.0	
100	QPSK	270	0		13.85		15.0	0.0	
100	16QAM	1	1		13.07		15.0	0.0	
100	16QAM	1	1		12.97		15.0	0.0	
100	256QAM	1	1		13.17		15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.58	13.70	13.67	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.82	13.84	13.82	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.65	13.84	13.80	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.58	13.70	13.65	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.62	13.71	13.61	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.53	13.69	13.61	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.89	13.82	13.84	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.62	13.58	13.60	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.56	13.63	13.64	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.61	13.68	13.61	15.0	0.0	



Part27Q n78 Ant5 PC2&PC3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	13.03			15.0	0.0
100	PI2 BPSK	1	137	13.80				
100	PI2 BPSK	1	271	12.99				
100	PI2 BPSK	135	0	13.84			15.0	0.0
100	PI2 BPSK	135	89	13.91			15.0	0.0
100	PI2 BPSK	135	138	13.70			15.0	0.0
100	PI2 BPSK	270	0	13.70				
100	QPSK	1	1	13.99				
100	QPSK	1	137	13.99			15.0	0.0
100	QPSK	1	271	12.96				
100	QPSK	135	0	13.78			15.0	0.0
100	QPSK	135	89	13.81			15.0	0.0
100	QPSK	135	138	13.72			15.0	0.0
100	QPSK	270	0	13.88				
100	16QAM	1	1	13.08			15.0	0.0
100	64QAM	1	1	12.96			15.0	0.0
100	256QAM	1	1	13.11			15.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	13.53	13.61	13.62	15.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	13.54	13.69	13.70	15.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	13.59	13.71	13.59	15.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3500.02		
60	QPSK	1	1	13.58	13.80	13.70	15.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	13.51	13.57	13.60	15.0	0.0
Channel				631334	633334	633334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	13.52	13.62	13.59	15.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3537.02		
30	QPSK	1	1	13.59	13.61	13.64	15.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	13.54	13.71	13.62	15.0	0.0
Channel				630300	633334	636368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.5	3500.01	3543.23		
15	QPSK	1	1	13.58	13.61	13.61	15.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	13.55	13.64	13.64	15.0	0.0



Part270 n77 Ant5 PC3&PC2 ECI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	17.44	17.55	17.44		
100	PI2 BPSK	1	137	17.50	17.52	17.43	18.5	0.0
100	PI2 BPSK	1	271	17.47	17.50	17.33		
100	PI2 BPSK	135	0	17.44	17.52	17.33	18.5	0.0
100	PI2 BPSK	135	69	17.54	17.58	17.38	18.5	0.0
100	PI2 BPSK	135	138	17.51	17.47	17.37		
100	PI2 BPSK	270	0	17.46	17.48	17.40	18.5	0.0
100	QPSK	1	1	17.51	17.50	17.39		
100	QPSK	1	137	17.50	17.60	17.40	18.5	0.0
100	QPSK	1	271	17.52	17.44	17.44		
100	QPSK	135	0	17.50	17.48	17.39	18.5	0.0
100	QPSK	135	69	17.44	17.55	17.48	18.5	0.0
100	QPSK	135	138	17.54	17.54	17.46		
100	QPSK	270	0	17.50	17.52	17.39	18.5	0.0
100	16QAM	1	1	17.50	17.50	17.48	18.5	0.0
100	64QAM	1	1	17.55	17.57	17.42	18.5	0.0
100	256QAM	1	1	17.52	17.50	17.43	18.5	0.0
Channel				649868	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.00	16.96	16.85	18.5	0.0
Channel				649334	65000	65068	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3743.01	3840	3943.02		
80	QPSK	1	1	17.01	16.96	16.82	18.5	0.0
Channel				649000	65000	65000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3945		
70	QPSK	1	1	17.04	17.01	16.94	18.5	0.0
Channel				648668	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3743.01	3840	3950.01		
60	QPSK	1	1	16.92	17.00	16.93	18.5	0.0
Channel				648334	65000	65068	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.98	17.04	16.94	18.5	0.0
Channel				648000	65000	65000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.03	17.04	16.86	18.5	0.0
Channel				647668	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3713.02	3840	3963.01		
30	QPSK	1	1	16.98	16.95	16.90	18.5	0.0
Channel				647334	65000	65068	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.92	17.09	16.92	18.5	0.0
Channel				647168	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	17.00	16.96	16.85	18.5	0.0
Channel				647000	65000	65000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	16.98	17.05	16.90	18.5	0.0

ECI6 END C Power

Part27Q n77 Ant5 PC3&PC2 ECI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1		17.45			
100	PI2 BPSK	1	137		17.47		18.5	0.0
100	PI2 BPSK	1	271		17.45			
100	PI2 BPSK	135	0		17.47		18.5	0.0
100	PI2 BPSK	135	69		17.44		18.5	0.0
100	PI2 BPSK	135	138		17.46			
100	PI2 BPSK	270	0		17.45		18.5	0.0
100	QPSK	1	1		17.52			
100	QPSK	1	137		17.56		18.5	0.0
100	QPSK	1	271		17.48			
100	QPSK	135	0		17.50		18.5	0.0
100	QPSK	135	69		17.54		18.5	0.0
100	QPSK	135	138		17.45			
100	QPSK	270	0		17.52		18.5	0.0
100	16QAM	1	1		17.55		18.5	0.0
100	64QAM	1	1		17.46		18.5	0.0
100	256QAM	1	1		17.51		18.5	0.0
Channel				633000	63334	63368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.92	17.00	16.92	18.5	0.0
Channel				632668	63334	63400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.03	17.01	16.87	18.5	0.0
Channel				632334	63334	63434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.98	17.02	16.99	18.5	0.0
Channel				632000	63334	63468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3520		
60	QPSK	1	1	17.01	17.01	16.91	18.5	0.0
Channel				631668	63334	63500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.93	16.95	16.97	18.5	0.0
Channel				631334	63334	63334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.97	17.02	16.91	18.5	0.0
Channel				631000	63334	63568	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465.02	3500.01	3535		
30	QPSK	1	1	16.94	16.95	16.90	18.5	0.0
Channel				630668	63334	63600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.98	16.94	16.88	18.5	0.0
Channel				630300	63334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.02		
15	QPSK	1	1	16.94	16.93	16.88	18.5	0.0
Channel				630334	63334	63634	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	16.91	16.95	16.91	18.5	0.0

Part270 n78 Ant5 PC3&PC2 ECI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		17.82			
100	PI2 BPSK	1	137		17.53		18.5	0.0
100	PI2 BPSK	1	271		17.81			
100	PI2 BPSK	135	0		17.82		18.5	0.0
100	PI2 BPSK	135	69		17.55		18.5	0.0
100	PI2 BPSK	135	138		17.53			
100	PI2 BPSK	270	0		17.59		18.5	0.0
100	QPSK	1	1		17.57			
100	QPSK	1	137		17.94		18.5	0.0
100	QPSK	1	271		17.81			
100	QPSK	135	0		17.59		18.5	0.0
100	QPSK	135	69		17.81		18.5	0.0
100	QPSK	135	138		17.57			
100	QPSK	270	0		17.80		18.5	0.0
100	16QAM	1	1		17.57		18.5	0.0
100	64QAM	1	1		17.57		18.5	0.0
100	256QAM	1	1		17.56		18.5	0.0
Channel				649868	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.96	17.05	16.95	18.5	0.0
Channel				649334	65000	65068	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3743.01	3750	3763.02		
80	QPSK	1	1	17.02	17.03	17.03	18.5	0.0
Channel				649000	65000	65100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.08	17.07	17.06	18.5	0.0
Channel				648668	65000	65134	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.01	17.06	17.02	18.5	0.0
Channel				648334	65000	65168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.04	17.13	17.02	18.5	0.0
Channel				648000	65000	65200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.97	17.03	17.06	18.5	0.0
Channel				647668	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3713.02	3750	3785.01		
30	QPSK	1	1	16.95	17.07	16.97	18.5	0.0
Channel				647334	65000	65268	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.05	17.02	16.93	18.5	0.0
Channel				647168	65000	65284	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	16.95	17.05	17.03	18.5	0.0
Channel				647000	65000	65300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	17.05	17.02	17.05	18.5	0.0



Part27Q n78 Ant5 PC3&PC2 EC16

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)				3500.01	633334			
100	Pl2 BPSK	1	1	17.80			18.5	0.0
100	Pl2 BPSK	1	137	17.99				
100	Pl2 BPSK	1	271	17.57				
100	Pl2 BPSK	135	0	17.83			18.5	0.0
100	Pl2 BPSK	135	69	17.82			18.5	0.0
100	Pl2 BPSK	135	138	17.54				
100	Pl2 BPSK	270	0	17.53			18.5	0.0
100	QPSK	1	1	17.52				
100	QPSK	1	137	17.83			18.5	0.0
100	QPSK	1	271	17.56				
100	QPSK	135	0	17.56			18.5	0.0
100	QPSK	135	69	17.99			18.5	0.0
100	QPSK	135	138	17.58				
100	QPSK	270	0	17.96			18.5	0.0
100	16QAM	1	1	17.54			18.5	0.0
100	64QAM	1	1	17.53			18.5	0.0
100	256QAM	1	1	17.80			18.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	16.98	17.01	17.01	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.09	17.02	17.02	18.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.06	17.06	16.89	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3500.02		
60	QPSK	1	1	17.06	17.02	16.98	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.98	17.10	17.00	18.5	0.0
Channel				631334	633334	633334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.99	17.10	16.96	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.07	17.01	16.89	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.99	17.08	16.96	18.5	0.0
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.82		
15	QPSK	1	1	16.98	17.03	16.96	18.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	17.04	17.02	16.96	18.5	0.0



ECI7 ENDC Power

n2 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
				379300	376000	379000	
Frequency (MHz)							
				1890	1890	1890	
30	PI/2 BPSK	1	1	22.93	22.95	22.76	24.0
30	PI/2 BPSK	1	80	23.08	23.15	23.10	0.0
30	PI/2 BPSK	1	158	22.91	22.95	22.89	0.0
30	PI/2 BPSK	80	0	22.88	22.82	22.96	0.5
30	PI/2 BPSK	80	40	22.99	23.10	23.00	0.0
30	PI/2 BPSK	80	80	22.91	22.81	22.97	0.5
30	PI/2 BPSK	160	0	22.80	22.89	22.85	0.5
30	QPSK	1	1	22.82	22.94	22.91	0.0
30	QPSK	1	80	23.11	23.21	23.15	0.0
30	QPSK	1	158	22.95	22.98	22.87	0.0
30	QPSK	80	0	22.97	22.97	22.96	1.0
30	QPSK	80	40	23.06	23.17	23.13	0.0
30	QPSK	80	80	22.79	22.81	22.21	0.0
30	QPSK	160	0	22.17	22.35	22.32	0.0
30	16QAM	1	1	21.69	21.79	21.72	0.0
30	16QAM	1	1	20.17	20.28	20.13	2.5
30	256QAM	1	1	18.76	18.82	18.78	4.5
Channel							
				372500	376000	379500	
Frequency (MHz)							
				1882.5	1880	1897.5	
25	QPSK	1	1	22.83	22.93	22.96	24.0
Channel							
				372000	376000	380000	
Frequency (MHz)							
				1890	1890	1900	
20	QPSK	1	1	22.91	22.92	22.98	24.0
Channel							
				371500	376000	380500	
Frequency (MHz)							
				1897.5	1890	1892.5	
15	QPSK	1	1	22.97	23.06	23.04	24.0
Channel							
				371000	376000	381000	
Frequency (MHz)							
				1895	1890	1905	
10	QPSK	1	1	22.07	22.19	22.03	24.0
Channel							
				370500	376000	381500	
Frequency (MHz)							
				1882.5	1880	1897.5	
5	QPSK	1	1	22.98	23.11	23.03	24.0

n5 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
				167300	167300	167300	
Frequency (MHz)							
				836.5	836.5	836.5	
25	PI/2 BPSK	1	1	22.62	22.62	22.62	24.0
25	PI/2 BPSK	1	67	22.85	22.85	22.85	0.0
25	PI/2 BPSK	1	131	22.65	22.65	22.65	0.0
25	PI/2 BPSK	64	0	22.28	22.28	22.28	0.5
25	PI/2 BPSK	64	35	22.87	22.87	22.87	0.0
25	PI/2 BPSK	64	69	22.30	22.30	22.30	0.5
25	PI/2 BPSK	128	0	22.34	22.34	22.34	0.5
25	QPSK	1	1	22.97	22.97	22.97	24.0
25	QPSK	1	67	22.92	22.92	22.92	0.0
25	QPSK	1	131	22.50	22.50	22.50	0.0
25	QPSK	64	0	21.74	21.74	21.74	1.0
25	QPSK	64	35	22.86	22.86	22.86	0.0
25	QPSK	64	69	21.78	21.78	21.78	1.0
25	QPSK	128	0	21.83	21.83	21.83	0.0
25	16QAM	1	1	21.32	21.32	21.32	1.0
25	16QAM	1	1	20.00	20.00	20.00	2.5
25	256QAM	1	1	18.53	18.53	18.53	4.5
Channel							
				166800	167300	167800	
Frequency (MHz)							
				834	836.5	838	
20	QPSK	1	1	22.84	22.89	22.73	0.0
Channel							
				166300	167300	168300	
Frequency (MHz)							
				831.5	835.5	841.5	
15	QPSK	1	1	22.77	22.86	22.75	24.0
Channel							
				165800	167300	168800	
Frequency (MHz)							
				829	835.5	844	
10	QPSK	1	1	22.82	22.88	22.75	24.0
Channel							
				165300	167300	169300	
Frequency (MHz)							
				826.5	835.5	846.5	
5	QPSK	1	1	22.78	22.80	22.75	24.0

n12 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
				141300	141500	141700	
Frequency (MHz)							
				706.5	707.5	707.5	
15	PI/2 BPSK	1	1	22.84	22.98	22.75	24.0
15	PI/2 BPSK	1	40	22.75	22.83	22.71	0.0
15	PI/2 BPSK	1	77	22.73	22.80	22.71	0.0
15	PI/2 BPSK	36	0	22.56	22.65	22.52	0.5
15	PI/2 BPSK	36	22	22.69	22.81	22.70	0.0
15	PI/2 BPSK	36	43	22.54	22.61	22.50	0.5
15	PI/2 BPSK	72	0	22.88	22.64	22.61	0.5
15	QPSK	1	1	22.87	22.92	22.81	24.0
15	QPSK	1	40	22.83	22.87	22.77	0.0
15	QPSK	1	77	22.72	22.81	22.68	0.0
15	QPSK	36	0	22.04	22.12	22.08	1.0
15	QPSK	36	22	22.82	22.85	22.77	0.0
15	QPSK	36	43	22.02	22.07	21.94	0.0
15	QPSK	72	0	22.05	22.13	22.00	1.0
15	16QAM	1	1	21.72	21.76	21.69	0.0
15	16QAM	1	1	20.11	20.22	20.18	2.5
15	256QAM	1	1	18.70	18.83	18.77	4.5
Channel							
				140800	141500	142200	
Frequency (MHz)							
				704	707.5	711	
10	QPSK	1	1	22.82	22.85	22.72	24.0
Channel							
				140300	141500	142100	
Frequency (MHz)							
				701.5	707.5	713.5	
5	QPSK	1	1	22.72	22.80	22.67	24.0



n14 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.57	22.57	22.57			
10	PI2 BPSK	1	25	22.53	22.53	22.53	24.0	0.0	
10	PI2 BPSK	1	50	22.50	22.50	22.50			
10	PI2 BPSK	25	0	22.12	22.12	22.12	23.5	0.5	
10	PI2 BPSK	25	14	22.26	22.26	22.26	24.0	0.0	
10	PI2 BPSK	25	27	22.07	22.07	22.07			
10	PI2 BPSK	50	0	22.14	22.14	22.14	23.5	0.5	
10	QPSK	1	1	22.64	22.64	22.64			
10	QPSK	1	26	22.58	22.58	22.58	24.0	0.0	
10	QPSK	1	50	22.55	22.55	22.55			
10	QPSK	25	0	21.73	21.73	21.73	23.0	1.0	
10	QPSK	25	14	22.60	22.60	22.60	24.0	0.0	
10	QPSK	25	27	21.86	21.86	21.86	23.0	1.0	
10	QPSK	50	0	21.78	21.78	21.78	23.0	1.0	
10	16QAM	1	1	21.36	21.36	21.36	23.0	1.0	
10	64QAM	1	1	19.91	19.91	19.91	21.5	2.5	
10	256QAM	1	1	18.48	18.48	18.48	19.5	4.5	
Channel									
				159.100	159.000	159.100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.53	22.52	22.49	24.0	0.0	

n25 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	22.23	22.27	22.30			
45	PI2 BPSK	1	61	22.97	23.11	22.98	24.0	0.0	
45	PI2 BPSK	1	121	22.36	22.45	22.31			
45	PI2 BPSK	121	0	22.41	22.51	22.27	23.5	0.5	
45	PI2 BPSK	121	61	22.92	23.06	23.00	24.0	0.0	
45	PI2 BPSK	121	121	22.54	22.58	22.51			
45	PI2 BPSK	242	0	22.50	22.62	22.55	23.5	0.5	
45	QPSK	1	1	22.35	22.42	22.40			
45	QPSK	1	61	23.09	23.17	23.11	24.0	0.0	
45	QPSK	1	121	22.40	22.48	22.43			
45	QPSK	121	0	22.10	22.16	22.02	23.0	1.0	
45	QPSK	121	61	23.02	23.11	23.07	24.0	0.0	
45	QPSK	121	121	22.12	22.18	22.03	23.0	1.0	
45	QPSK	242	0	22.09	22.25	22.01	23.0	1.0	
45	16QAM	1	1	21.21	21.33	21.25	23.0	1.0	
45	64QAM	1	1	19.75	19.84	19.79	21.5	2.5	
45	256QAM	1	1	18.27	18.41	18.28	18.5	4.5	
Channel									
				374000	376500	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1870	1882.5	1895			
40	QPSK	1	1	22.89	23.02	23.04	0.0	0.0	
Channel									
				372500	376500	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1897.5			
35	QPSK	1	1	23.03	23.10	23.07	24.0	0.0	
Channel									
				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.99	23.09	23.03	24.0	0.0	
Channel									
				372500	376500	385000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	23.00	23.07	23.00	24.0	0.0	
Channel									
				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.97	23.04	23.00	24.0	0.0	
Channel									
				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.98	23.11	22.98	24.0	0.0	
Channel									
				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1854	1882.5	1910			
10	QPSK	1	1	22.95	23.04	23.07	24.0	0.0	
Channel									
				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.90	23.13	22.99	24.0	0.0	

n26 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.74	22.81	22.76			
20	PI2 BPSK	1	53	22.63	22.68	22.67	24.0	0.0	
20	PI2 BPSK	1	104	22.61	22.71	22.67			
20	PI2 BPSK	50	0	22.20	22.25	22.21	23.5	0.5	
20	PI2 BPSK	50	28	22.76	22.80	22.71	24.0	0.0	
20	PI2 BPSK	50	56	22.20	22.31	22.19	23.5	0.5	
20	PI2 BPSK	100	0	22.23	22.27	22.28			
20	QPSK	1	1	22.80	22.91	22.82			
20	QPSK	1	53	22.69	22.75	22.68	24.0	0.0	
20	QPSK	1	104	22.62	22.69	22.59			
20	QPSK	50	0	21.81	21.84	21.81	23.0	1.0	
20	QPSK	50	28	22.78	22.87	22.80	24.0	0.0	
20	QPSK	50	56	21.86	21.80	21.71	23.0	1.0	
20	QPSK	100	0	21.84	21.88	21.81	23.0	1.0	
20	16QAM	1	1	21.36	21.43	21.30	23.0	1.0	
20	64QAM	1	1	19.95	20.06	19.99	21.5	2.5	
20	256QAM	1	1	18.51	18.62	18.57	18.5	4.5	
Channel									
				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.74	22.82	22.73	24.0	0.0	
Channel									
				163500	166300	166500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.68	22.78	22.67	24.0	0.0	
Channel									
				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.74	22.87	22.75	24.0	0.0	



n66 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	22.23	22.31	22.15			
45	PI2 BPSK	1	61	22.78	22.88	22.77	24.0	0.0	
45	PI2 BPSK	1	121	22.17	22.23	22.10			
45	PI2 BPSK	121	0	22.52	22.59	22.47	23.5	0.5	
45	PI2 BPSK	121	61	22.71	22.85	22.80	24.0	0.0	
45	PI2 BPSK	121	121	22.48	22.55	22.41	23.5	0.5	
45	PI2 BPSK	242	0	22.48	22.62	22.54			
45	QPSK	1	1	22.30	22.34	22.23	24.0	0.0	
45	QPSK	1	61	22.87	22.93	22.91			
45	QPSK	1	121	22.14	22.25	22.17			
45	QPSK	121	0	21.98	22.02	21.90	23.0	1.0	
45	QPSK	121	61	22.82	22.89	22.81	24.0	0.0	
45	QPSK	121	121	21.94	22.04	21.87	23.0	1.0	
45	QPSK	242	0	21.99	22.11	22.07			
45	16QAM	1	1	21.17	21.24	21.20	23.0	1.0	
45	64QAM	1	1	19.60	19.73	19.65	21.5	2.5	
45	256QAM	1	1	18.34	18.37	18.33	19.5	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.85	22.83	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.85	22.83	22.82	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.72	22.87	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.74	22.79	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.82	22.88	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.79	22.80	22.86	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.74	22.85	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.81	22.81	22.77	24.0	0.0	

n70 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.53	22.53	22.53			
15	PI2 BPSK	1	40		22.80		24.0	0.0	
15	PI2 BPSK	1	77		22.86				
15	PI2 BPSK	36	0	22.48	22.48	22.48	23.5	0.5	
15	PI2 BPSK	36	22	22.50	22.50	22.50	24.0	0.0	
15	PI2 BPSK	36	43	22.48	22.48	22.48	23.5	0.5	
15	PI2 BPSK	75	0	22.52	22.52	22.52			
15	QPSK	1	1	22.58	22.58	22.58	24.0	0.0	
15	QPSK	1	40	22.89	22.89	22.89			
15	QPSK	1	77	22.81	22.81	22.81	23.0	1.0	
15	QPSK	36	0	22.13	22.13	22.13	23.0	1.0	
15	QPSK	36	22	22.82	22.82	22.82	24.0	0.0	
15	QPSK	36	43	22.14	22.14	22.14	23.0	1.0	
15	QPSK	75	0	22.17	22.17	22.17			
15	16QAM	1	1	21.78	21.78	21.78	23.0	1.0	
15	64QAM	1	1	20.25	20.25	20.25	21.5	2.5	
15	256QAM	1	1	18.86	18.86	18.86	18.5	4.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.85	22.81	22.86	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.72	22.82	22.83	24.0	0.0	

n71 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.52	22.52	22.52			
20	PI2 BPSK	1	53	22.84	22.91	22.78	24.0	0.0	
20	PI2 BPSK	1	104	22.73	22.83	22.79			
20	PI2 BPSK	50	0	22.45	22.52	22.40	23.5	0.5	
20	PI2 BPSK	50	28	22.94	23.02	22.98	24.0	0.0	
20	PI2 BPSK	50	56	22.48	22.52	22.38	23.5	0.5	
20	PI2 BPSK	100	0	22.50	22.58	22.52			
20	QPSK	1	1	23.07	23.11	23.01	24.0	0.0	
20	QPSK	1	53	22.50	22.55	22.83			
20	QPSK	1	104	22.98	22.76	22.82	24.0	0.0	
20	QPSK	50	0	21.85	21.94	21.82	23.0	1.0	
20	QPSK	50	28	23.00	23.07	22.96	24.0	0.0	
20	QPSK	50	56	21.86	22.00	21.81	23.0	1.0	
20	QPSK	100	0	22.01	22.04	21.97			
20	16QAM	1	1	21.60	21.66	21.55	23.0	1.0	
20	64QAM	1	1	20.07	20.13	20.00	21.5	2.5	
20	256QAM	1	1	18.61	18.70	18.62	18.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.95	23.05	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.93	23.01	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	23.08	22.96	24.0	0.0	



n7 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	23.10	23.18	23.04			
50	PI/2 BPSK	1	135	23.00	23.07	22.98	24.0	0.0	
50	PI/2 BPSK	1	268	22.83	22.86	22.82			
50	PI/2 BPSK	135	0	22.65	22.78	22.74	23.5	0.5	
50	PI/2 BPSK	135	68	23.01	23.14	23.09	24.0	0.0	
50	PI/2 BPSK	135	135	22.53	22.58	22.52			
50	PI/2 BPSK	270	0	22.51	22.66	22.61	23.5	0.5	
50	QPSK	1	1	23.17	23.23	23.12			
50	QPSK	1	135	23.06	23.11	23.00	24.0	0.0	
50	QPSK	1	268	22.73	22.82	22.70			
50	QPSK	135	0	22.20	22.23	22.08	23.0	1.0	
50	QPSK	135	68	23.12	23.16	23.05	24.0	0.0	
50	QPSK	135	135	22.04	22.09	22.01			
50	QPSK	270	0	22.08	22.13	22.01	23.0	1.0	
50	16QAM	1	1	21.78	21.84	21.72	23.0	1.0	
50	64QAM	1	1	20.25	20.37	20.22	21.5	2.5	
50	256QAM	1	1	18.89	18.92	18.84	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	23.07	23.15	23.00	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.14	23.20	23.07	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.03	23.19	23.04	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	23.06	23.18	22.98	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.04	23.10	23.07	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.04	23.11	23.05	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.02	23.16	23.04	24.0	0.0	

n30 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		23.22				
10	PI/2 BPSK	1	26		23.16		24.0	0.0	
10	PI/2 BPSK	1	50		22.86				
10	PI/2 BPSK	25	0		22.79		23.5	0.5	
10	PI/2 BPSK	25	14		23.18		24.0	0.0	
10	PI/2 BPSK	25	27		22.53				
10	PI/2 BPSK	50	0		22.61		23.5	0.5	
10	QPSK	1	1		23.28				
10	QPSK	1	26		23.19		24.0	0.0	
10	QPSK	1	50		22.95				
10	QPSK	25	0		22.24		23.0	1.0	
10	QPSK	25	14		23.21		24.0	0.0	
10	QPSK	25	27		22.05				
10	QPSK	50	0		22.12		23.0	1.0	
10	16QAM	1	1		22.06		23.0	1.0	
10	64QAM	1	1		20.39		21.5	2.5	
10	256QAM	1	1		18.89		19.5	4.5	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	23.15	23.22	23.12	24.0	0.0	



Part270 n77 Ant5 PC2&PC3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	10.09	10.13	10.04				
100	PI2 BPSK	1	137	10.95	11.01	10.86				
100	PI2 BPSK	1	271	9.99	10.01	9.98				
100	PI2 BPSK	135	0	10.86	10.92	10.90	12.0	0.0		
100	PI2 BPSK	135	69	10.72	10.87	10.75	12.0	0.0		
100	PI2 BPSK	135	138	10.75	10.81	10.72	12.0	0.0		
100	PI2 BPSK	270	0	10.88	10.82	10.75				
100	QPSK	1	1	10.04	10.18	10.04				
100	QPSK	1	137	10.93	11.15	10.97	12.0	0.0		
100	QPSK	1	271	9.98	10.02	9.90				
100	QPSK	135	0	10.94	10.94	10.81	12.0	0.0		
100	QPSK	135	69	10.83	10.87	10.76	12.0	0.0		
100	QPSK	135	138	10.05	10.76	10.75	12.0	0.0		
100	QPSK	270	0	10.75	10.85	10.82				
100	16QAM	1	1	10.10	10.20	10.09	12.0	0.0		
100	16QAM	1	1	10.00	10.13	10.12	12.0	0.0		
100	256QAM	1	1	10.14	10.17	10.10	12.0	0.0		
Channel										
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	10.83	11.03	10.83	12.0	0.0		
Channel										
Frequency (MHz)				649334	650000	649668	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	10.81	11.07	10.81	12.0	0.0		
Channel										
Frequency (MHz)				649000	650000	649000	Tune-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	10.75	11.08	10.86	12.0	0.0		
Channel										
Frequency (MHz)				648668	650000	648334	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	10.75	11.02	10.86	12.0	0.0		
Channel										
Frequency (MHz)				648334	650000	648668	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	10.82	11.02	10.79	12.0	0.0		
Channel										
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	10.75	11.02	10.84	12.0	0.0		
Channel										
Frequency (MHz)				647668	650000	648334	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	10.78	11.02	10.79	12.0	0.0		
Channel										
Frequency (MHz)				647334	650000	646668	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	10.79	10.99	10.81	12.0	0.0		
Channel										
Frequency (MHz)				647168	650000	648334	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	10.75	10.99	10.81	12.0	0.0		
Channel										
Frequency (MHz)				647000	650000	650000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	10.79	11.00	10.82	12.0	0.0		

Part27Q n77 Ant5 PC2&PC3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1	10.09	10.13	10.04				
100	PI2 BPSK	1	137	10.95	11.01	10.86				
100	PI2 BPSK	1	271	9.99	10.03	9.98				
100	PI2 BPSK	135	0	10.86	10.92	10.90	12.0	0.0		
100	PI2 BPSK	135	69	10.72	10.87	10.75	12.0	0.0		
100	PI2 BPSK	135	138	10.75	10.81	10.72	12.0	0.0		
100	PI2 BPSK	270	0	10.78	10.76	10.75				
100	QPSK	1	1	10.16	10.16	10.16				
100	QPSK	1	137	11.01	11.01	11.01	12.0	0.0		
100	QPSK	1	271	9.99	9.99	9.99				
100	QPSK	135	0	10.89	10.89	10.89	12.0	0.0		
100	QPSK	135	69	10.91	10.91	10.91	12.0	0.0		
100	QPSK	135	138	10.80	10.80	10.80	12.0	0.0		
100	QPSK	270	0	10.90	10.90	10.90				
100	16QAM	1	1	10.13	10.13	10.13	12.0	0.0		
100	16QAM	1	1	10.06	10.06	10.06	12.0	0.0		
100	256QAM	1	1	10.18	10.18	10.18	12.0	0.0		
Channel										
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	10.83	10.84	10.66	12.0	0.0		
Channel										
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	10.69	10.83	10.64	12.0	0.0		
Channel										
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	10.68	10.83	10.68	12.0	0.0		
Channel										
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	10.66	10.92	10.68	12.0	0.0		
Channel										
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	10.68	10.84	10.69	12.0	0.0		
Channel										
Frequency (MHz)				3470.01	3500.01	3530.02	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	10.69	10.84	10.66	12.0	0.0		
Channel										
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	10.73	10.86	10.69	12.0	0.0		
Channel										
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	10.72	10.83	10.69	12.0	0.0		
Channel										
Frequency (MHz)				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	10.73	10.91	10.64	12.0	0.0		
Channel										
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	10.72	10.84	10.72	12.0	0.0		

Part270 n78 Ant5 PC2&PC3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3750	3750				
100	PI2 BPSK	1	1	10.06	10.06	10.06				
100	PI2 BPSK	1	137	10.81	10.81	10.81	12.0	0.0		
100	PI2 BPSK	1	271	9.90	9.90	9.90				
100	PI2 BPSK	135	0	10.71	10.71	10.71	12.0	0.0		
100	PI2 BPSK	135	69	10.81	10.81	10.81	12.0	0.0		
100	PI2 BPSK	135	138	10.86	10.86	10.86	12.0	0.0		
100	PI2 BPSK	270	0	10.84	10.84	10.84				
100	QPSK	1	1	10.11	10.11	10.11				
100	QPSK	1	137	10.93	10.93	10.93	12.0	0.0		
100	QPSK	1	271	9.92	9.92	9.92				
100	QPSK	135	0	10.76	10.76	10.76	12.0	0.0		
100	QPSK	135	69	10.78	10.78	10.78	12.0	0.0		
100	QPSK	135	138	10.77	10.77	10.77	12.0	0.0		
100	QPSK	270	0	10.85	10.85	10.85				
100	16QAM	1	1	10.07	10.07	10.07	12.0	0.0		
100	16QAM	1	1	9.97	9.97	9.97	12.0	0.0		
100	256QAM	1	1	10.17	10.17	10.17	12.0	0.0		
Channel										
Frequency (MHz)				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	10.54	10.79	10.55	12.0	0.0		
Channel										
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	10.55	10.85	10.50	12.0	0.0		
Channel										
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	10.58	10.78	10.61	12.0	0.0		
Channel										
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	10.45	10.79	10.48	12.0	0.0		
Channel										
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	10.48	10.88	10.53	12.0	0.0		
Channel										
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	10.58	10.67	10.46	12.0	0.0		
Channel										
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	10.44	10.70	10.60	12.0	0.0		
Channel										
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	10.51	10.89	10.50	12.0	0.0		
Channel										
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	10.44	10.89	10.47	12.0	0.0		
Channel										
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	10.63	10.78	10.51	12.0	0.0		



Part27Q n78 Ant5 PC2&PC3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1		10.03			
100	PI/2 BPSK	1	137		10.80		12.0	0.0
100	PI/2 BPSK	1	271		9.93			
100	PI/2 BPSK	135	0		10.84		12.0	0.0
100	PI/2 BPSK	135	69		10.91		12.0	0.0
100	PI/2 BPSK	135	138		10.70		12.0	0.0
100	PI/2 BPSK	270	0		10.70			
100	QPSK	1	1		10.09			
100	QPSK	1	137		10.96		12.0	0.0
100	QPSK	1	271		9.96			
100	QPSK	135	0		10.78		12.0	0.0
100	QPSK	135	69		10.81		12.0	0.0
100	QPSK	135	138		10.72			
100	QPSK	270	0		10.88		12.0	0.0
100	16QAM	1	1		10.08		12.0	0.0
100	64QAM	1	1		9.96		12.0	0.0
100	256QAM	1	1		10.11		12.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	10.37	10.70	10.36	12.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	10.46	10.71	10.36	12.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	10.39	10.72	10.47	12.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	10.45	10.88	10.43	12.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	10.42	10.87	10.48	12.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	10.47	10.63	10.46	12.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3537.02		
30	QPSK	1	1	10.42	10.60	10.55	12.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	10.46	10.73	10.47	12.0	0.0
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.82		
15	QPSK	1	1	10.43	10.83	10.45	12.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	10.44	10.89	10.46	12.0	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.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1865	1880	1895		
30	PI/2 BPSK	1	1	22.06	22.29	22.24		
30	PI/2 BPSK	1	53	22.40	22.42	22.41	24.0	0.0
30	PI/2 BPSK	1	104	22.29	22.26	22.19		
30	PI/2 BPSK	50	0	21.86	22.00	21.96	23.5	0.5
30	PI/2 BPSK	50	28	22.29	22.41	22.30	24.0	0.0
30	PI/2 BPSK	50	56	21.93	22.03	21.98	23.5	0.5
30	PI/2 BPSK	100	0	21.96	22.00	21.96		
30	QPSK	1	1	22.28	22.33	22.30		
30	QPSK	1	53	22.33	22.46	22.36	24.0	0.0
30	QPSK	1	104	22.30	22.34	22.34		
30	QPSK	50	0	21.40	21.50	21.42	23.0	1.0
30	QPSK	50	28	22.32	22.43	22.38	24.0	0.0
30	QPSK	50	56	21.40	21.47	21.46	23.0	1.0
30	QPSK	100	0	21.44	21.50	21.48		
30	16QAM	1	1	21.25	21.29	21.25	23.0	1.0
30	64QAM	1	1	19.80	19.86	19.78	21.5	2.5
30	256QAM	1	1	17.74	17.80	17.68	19.5	4.5
Channel								
Frequency (MHz)				37200	37600	37600		
25	QPSK	1	1	22.16	22.27	22.17	24.0	0.0
Channel								
Frequency (MHz)				372000	376000	380000		
20	QPSK	1	1	22.19	22.26	22.14	24.0	0.0
Channel								
Frequency (MHz)				371500	376000	380500		
15	QPSK	1	1	22.17	22.30	22.14	24.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000		
10	QPSK	1	1	22.18	22.30	22.24	24.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500		
5	QPSK	1	1	22.16	22.25	22.24	24.0	0.0

Default Power for Other PA

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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1872.5	1882.5	1892.5		
45	PI/2 BPSK			22.23	22.37	22.30		
45	PI/2 BPSK			22.97	23.11	22.98	24.0	0.0
45	PI/2 BPSK			22.36	22.45	22.31		
45	PI/2 BPSK			22.41	22.51	22.37	23.5	0.5
45	PI/2 BPSK			22.92	23.06	23.00	24.0	0.0
45	PI/2 BPSK			22.54	22.58	22.51	23.5	0.5
45	PI/2 BPSK			22.50	22.62	22.55		
45	QPSK			22.35	22.42	22.40		
45	QPSK			23.09	23.17	23.11	24.0	0.0
45	QPSK			22.40	22.48	22.43		
45	QPSK			22.10	22.16	22.02	23.0	1.0
45	QPSK			23.02	23.11	23.07	24.0	0.0
45	QPSK			22.12	22.18	22.03	23.0	1.0
45	QPSK			22.09	22.25	22.01		
45	16QAM	1	1	21.21	21.33	21.25	23.0	1.0
45	64QAM	1	1	19.75	19.84	19.79	21.5	2.5
45	256QAM	1	1	18.27	18.41	18.28	19.5	4.5
Channel								
Frequency (MHz)				1870	1882.5	1895		
40	QPSK	1	1	23.01	23.03	23.02	0.0	0.0
Channel								
Frequency (MHz)				373500	376500	379500		
35	QPSK	1	1	23.03	23.10	23.07	24.0	0.0
Channel								
Frequency (MHz)				373000	376500	380000		
30	QPSK	1	1	22.99	23.09	23.03	24.0	0.0
Channel								
Frequency (MHz)				372500	376500	381000		
25	QPSK	1	1	23.06	23.07	23.00	24.0	0.0
Channel								
Frequency (MHz)				372000	376500	381000		
20	QPSK	1	1	22.97	23.04	23.00	24.0	0.0
Channel								
Frequency (MHz)				371500	376500	381500		
15	QPSK	1	1	22.98	23.11	22.98	24.0	0.0
Channel								
Frequency (MHz)				371000	376500	382000		
10	QPSK	1	1	22.95	23.04	23.07	24.0	0.0
Channel								
Frequency (MHz)				370500	376500	382500		
5	QPSK	1	1	22.96	23.13	22.99	24.0	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.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				345500	349000	351500		
45	PI/2 BPSK	1	1	22.23	22.31	22.18		
45	PI/2 BPSK	1	108	22.78	22.88	22.77	24.0	0.0
45	PI/2 BPSK	1	214	22.17	22.23	22.10		
45	PI/2 BPSK	108	0	22.82	22.89	22.47	23.5	0.5
45	PI/2 BPSK	108	54	22.71	22.85	22.80	24.0	0.0
45	PI/2 BPSK	108	108	22.48	22.55	22.41	23.5	0.5
45	PI/2 BPSK	216	0	22.49	22.62	22.54		
45	QPSK	1	1	22.30	22.34	22.25		
45	QPSK	1	108	22.87	22.93	22.91	24.0	0.0
45	QPSK	1	214	22.14	22.25	22.17		
45	QPSK	108	0	21.98	22.02	21.90	23.0	1.0
45	QPSK	108	54	22.82	22.89	22.81	24.0	0.0
45	QPSK	108	108	21.94	22.04	21.87	23.0	1.0
45	QPSK	216	0	21.98	22.11	22.07		
45	16QAM	1	1	21.17	21.24	21.20	23.0	1.0
45	64QAM	1	1	19.80	19.73	19.65	21.5	2.5
45	256QAM	1	1	18.34	18.37	18.33	19.5	4.5
Channel								
Frequency (MHz)				345000	349000	352000		
40	QPSK	1	1	22.77	22.84	22.75	24.0	0.0
Channel								
Frequency (MHz)				345500	349000	352500		
35	QPSK	1	1	22.72	22.87	22.75	24.0	0.0
Channel								
Frequency (MHz)				345000	349000	353000		
30	QPSK	1	1	22.72	22.87	22.78	24.0	0.0
Channel								
Frequency (MHz)				345500	349000	353500		
25	QPSK	1	1	22.74	22.79	22.77	24.0	0.0
Channel								
Frequency (MHz)				344000	349000	354000		
20	QPSK	1	1	22.82	22.88	22.78	24.0	0.0
Channel								
Frequency (MHz)				343500	349000	354500		
15	QPSK	1	1	22.79	22.80	22.85	24.0	0.0
Channel								
Frequency (MHz)				343000	349000	355000		
10	QPSK	1	1	22.74	22.85	22.85	24.0	0.0
Channel								
Frequency (MHz)				342500	349000	355500		
5	QPSK	1	1	22.81	22.81	22.77	24.0	0.0



ECI2 Power for Other PA

n2 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1865	1880	1895		
30	PI2 BPSK	1	1	18.48	18.44	18.35		
30	PI2 BPSK	1	60	18.52	18.50	18.30	19.5	0.0
30	PI2 BPSK	1	188	18.46	18.40	18.36		
30	PI2 BPSK	80	0	18.46	18.40	18.30	19.5	0.0
30	PI2 BPSK	80	40	18.29	18.29	18.30	19.5	0.0
30	PI2 BPSK	80	80	18.31	18.39	18.43		
30	PI2 BPSK	160	0	18.36	18.29	18.28	19.5	0.0
30	QPSK	1	1	18.27	18.41	18.40		
30	QPSK	1	80	18.54	18.68	18.26	19.5	0.0
30	QPSK	1	158	18.28	18.50	18.46		
30	QPSK	80	0	18.14	18.33	18.32	19.5	0.0
30	QPSK	80	40	18.39	18.52	18.51	19.5	0.0
30	QPSK	80	80	18.40	18.20	18.36		
30	QPSK	160	0	18.39	18.45	18.40	19.5	0.0
30	16QAM	1	1	18.29	18.28	18.23	19.5	0.0
30	64QAM	1	1	18.07	18.41	18.12	19.5	0.0
30	256QAM	1	1	18.30	18.37	18.14	19.5	0.0
Channel								
Frequency (MHz)				1892.5	1880	1897.5		
25	QPSK	1	1	18.48	18.63	18.29	19.5	0.0
Channel								
Frequency (MHz)				372000	376000	380000		
20	QPSK	1	1	18.50	18.65	18.29	19.5	0.0
Channel								
Frequency (MHz)				371500	376000	380500		
15	QPSK	1	1	18.55	18.62	18.25	19.5	0.0
Channel								
Frequency (MHz)				371000	376000	381000		
10	QPSK	1	1	18.47	18.73	18.31	19.5	0.0
Channel								
Frequency (MHz)				1832.5	1880	1907.5		
5	QPSK	1	1	18.51	18.50	18.35	19.5	0.0

n25 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1872.5	1882.5	1892.5		
45	PI2 BPSK	1	1	18.85	18.68	18.56		
45	PI2 BPSK	1	61	18.83	18.74	18.43	19.5	0.0
45	PI2 BPSK	1	121	18.83	18.61	18.27		
45	PI2 BPSK	121	0	18.96	18.58	18.40	19.5	0.0
45	PI2 BPSK	121	61	18.50	18.51	18.44	19.5	0.0
45	PI2 BPSK	121	121	18.55	18.52	18.56		
45	PI2 BPSK	242	0	18.53	18.49	18.50	19.5	0.0
45	QPSK	1	1	18.48	18.57	18.52		
45	QPSK	1	61	18.85	18.84	18.47	19.5	0.0
45	QPSK	1	121	18.45	18.67	18.57		
45	QPSK	121	0	18.38	18.55	18.46	19.5	0.0
45	QPSK	121	61	18.49	18.65	18.63	19.5	0.0
45	QPSK	121	121	18.52	18.41	18.65		
45	QPSK	242	0	18.54	18.57	18.55	19.5	0.0
45	16QAM	1	1	18.39	18.49	18.38	19.5	0.0
45	64QAM	1	1	18.31	18.55	18.32	19.5	0.0
45	256QAM	1	1	18.41	18.53	18.26	19.5	0.0
Channel								
Frequency (MHz)				1870	1882.5	1886		
40	QPSK	1	1	18.52	18.60	18.23	19.5	0.0
Channel								
Frequency (MHz)				373500	376500	379500		
35	QPSK	1	1	18.42	18.70	18.29	19.5	0.0
Channel								
Frequency (MHz)				373000	376500	380000		
30	QPSK	1	1	18.44	18.69	18.31	19.5	0.0
Channel								
Frequency (MHz)				372500	376500	380500		
25	QPSK	1	1	18.45	18.60	18.29	19.5	0.0
Channel								
Frequency (MHz)				372000	376500	381000		
20	QPSK	1	1	18.40	18.92.5	19.05	19.5	0.0
Channel								
Frequency (MHz)				371500	376500	381500		
15	QPSK	1	1	18.44	18.59	18.35	19.5	0.0
Channel								
Frequency (MHz)				1887.5	1882.5	1907.5		
10	QPSK	1	1	18.44	18.63	18.27	19.5	0.0
Channel								
Frequency (MHz)				376000	376500	382500		
5	QPSK	1	1	18.42	18.66	18.32	19.5	0.0

n66 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	18.54	18.44	18.45		
45	PI2 BPSK	1	61	18.49	18.54	18.32	19.5	0.0
45	PI2 BPSK	1	121	18.38	18.49	18.37		
45	PI2 BPSK	121	0	18.39	18.34	18.25	19.5	0.0
45	PI2 BPSK	121	61	18.26	18.36	18.31	19.5	0.0
45	PI2 BPSK	121	121	18.42	18.27	18.37		
45	PI2 BPSK	242	0	18.35	18.38	18.28	19.5	0.0
45	QPSK	1	1	18.25	18.38	18.39		
45	QPSK	1	61	18.51	18.70	18.35	19.5	0.0
45	QPSK	1	121	18.20	18.52	18.43		
45	QPSK	121	0	18.21	18.42	18.25	19.5	0.0
45	QPSK	121	61	18.25	18.49	18.50	19.5	0.0
45	QPSK	121	121	18.35	18.28	18.39		
45	QPSK	242	0	18.31	18.34	18.44	19.5	0.0
45	16QAM	1	1	18.14	18.25	18.13	19.5	0.0
45	64QAM	1	1	18.16	18.36	18.14	19.5	0.0
45	256QAM	1	1	18.23	18.39	18.12	19.5	0.0
Channel								
Frequency (MHz)				345000	349000	353000		
40	QPSK	1	1	18.29	18.49	18.22	19.5	0.0
Channel								
Frequency (MHz)				345500	349000	352500		
35	QPSK	1	1	18.37	18.50	18.22	19.5	0.0
Channel								
Frequency (MHz)				345000	349000	353000		
30	QPSK	1	1	18.37	18.50	18.22	19.5	0.0
Channel								
Frequency (MHz)				1725	1745	1765		
25	QPSK	1	1	18.36	18.47	18.19	19.5	0.0
Channel								
Frequency (MHz)				344000	349000	354000		
20	QPSK	1	1	18.39	18.51	18.22	19.5	0.0
Channel								
Frequency (MHz)				343500	349000	354500		
15	QPSK	1	1	18.38	18.52	18.15	19.5	0.0
Channel								
Frequency (MHz)				343000	349000	355000		
10	QPSK	1	1	18.32	18.55	18.15	19.5	0.0
Channel								
Frequency (MHz)				342500	349000	355500		
5	QPSK	1	1	18.33	18.50	18.13	19.5	0.0



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n2 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				373000	376000	379000		
Frequency (MHz)				1865	1880	1895		
30	PI2 BPSK	1	1	18.98	18.94	18.85		
30	PI2 BPSK	1	60	19.02	19.00	18.80	20.0	0.0
30	PI2 BPSK	1	188	19.96	19.90	19.86		
30	PI2 BPSK	80	0	18.96	18.90	18.80	20.0	0.0
30	PI2 BPSK	80	40	18.79	18.79	18.80	20.0	0.0
30	PI2 BPSK	80	80	18.81	18.89	18.93		
30	PI2 BPSK	160	0	18.86	18.79	18.76	20.0	0.0
30	QPSK	1	1	19.77	18.84	18.90		
30	QPSK	1	80	19.04	19.16	18.76	20.0	0.0
30	QPSK	1	158	18.78	19.00	18.96		
30	QPSK	80	0	18.84	18.83	18.82	20.0	0.0
30	QPSK	80	40	18.89	19.02	19.01	20.0	0.0
30	QPSK	80	80	19.90	18.70	18.86		
30	QPSK	160	0	18.89	18.95	18.90	20.0	0.0
30	16QAM	1	1	18.79	18.78	18.73	20.0	0.0
30	64QAM	1	1	18.57	18.91	18.62	20.0	0.0
30	256QAM	1	1	18.80	18.87	18.64	20.0	0.0
Channel				372500	376000	379500		
Frequency (MHz)				1862.5	1880	1897.5		
25	QPSK	1	1	18.88	19.13	18.79	20.0	0.0
Channel				372000	376000	380000		
Frequency (MHz)				1860	1870	1900		
20	QPSK	1	1	19.00	19.15	18.79	20.0	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	19.05	19.12	18.75	20.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	18.97	19.23	18.61	20.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	18.91	19.00	18.85	20.0	0.0

n25 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				376500	376500	376500		
Frequency (MHz)				1872.5	1882.5	1892.5		
45	PI2 BPSK	1	1	18.83	18.74	18.64		
45	PI2 BPSK	1	61	18.77	18.91	18.60	20.0	0.0
45	PI2 BPSK	1	121	18.71	18.70	18.73		
45	PI2 BPSK	121	0	18.85	18.76	18.55	20.0	0.0
45	PI2 BPSK	121	61	18.85	18.62	18.54	20.0	0.0
45	PI2 BPSK	121	121	18.72	18.65	18.62		
45	PI2 BPSK	242	0	18.89	18.55	18.63	20.0	0.0
45	QPSK	1	1	18.55	18.74	18.63		
45	QPSK	1	61	18.78	18.90	18.61	20.0	0.0
45	QPSK	1	121	18.58	18.80	18.69		
45	QPSK	121	0	18.55	18.66	18.62	20.0	0.0
45	QPSK	121	61	18.59	18.81	18.70	20.0	0.0
45	QPSK	121	121	18.62	18.63	18.70		
45	QPSK	242	0	18.70	18.68	18.61	20.0	0.0
45	16QAM	1	1	18.51	18.63	18.48	20.0	0.0
45	64QAM	1	1	18.45	18.72	18.49	20.0	0.0
45	256QAM	1	1	18.56	18.71	18.48	20.0	0.0
Channel				376000	376500	377000		
Frequency (MHz)				1870	1882.5	1886		
40	QPSK	1	1	18.57	18.58	18.56	20.0	0.0
Channel				375500	376500	379500		
Frequency (MHz)				1867.5	1882.5	1897.5		
35	QPSK	1	1	18.59	18.66	18.61	20.0	0.0
Channel				375000	376500	380000		
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	18.59	18.64	18.60	20.0	0.0
Channel				374500	376500	380500		
Frequency (MHz)				1862.5	1882.5	1902.5		
25	QPSK	1	1	18.59	18.69	18.61	20.0	0.0
Channel				374000	376500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	18.62	18.67	18.60	20.0	0.0
Channel				373500	376500	381500		
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	18.66	18.61	18.53	20.0	0.0
Channel				373000	376500	382000		
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	18.61	18.69	18.61	20.0	0.0
Channel				372500	376500	382500		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	18.60	18.67	18.51	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.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				345000	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	19.04	18.94	18.95		
45	PI2 BPSK	1	61	18.99	19.04	18.82	20.0	0.0
45	PI2 BPSK	1	121	18.88	18.99	18.87		
45	PI2 BPSK	121	0	18.89	18.84	18.75	20.0	0.0
45	PI2 BPSK	121	61	18.76	18.86	18.81	20.0	0.0
45	PI2 BPSK	121	121	18.92	18.77	18.87		
45	PI2 BPSK	242	0	18.85	18.88	18.78	20.0	0.0
45	QPSK	1	1	18.75	18.88	18.89		
45	QPSK	1	61	19.01	19.20	18.85	20.0	0.0
45	QPSK	1	121	18.70	19.02	18.93		
45	QPSK	121	0	18.71	18.92	18.75	20.0	0.0
45	QPSK	121	61	18.75	18.99	19.00	20.0	0.0
45	QPSK	121	121	18.85	18.78	18.89		
45	QPSK	242	0	18.81	18.84	18.94	20.0	0.0
45	16QAM	1	1	18.64	18.75	18.63	20.0	0.0
45	64QAM	1	1	18.66	18.86	18.84	20.0	0.0
45	256QAM	1	1	18.73	18.89	18.62	20.0	0.0
Channel				345000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	18.79	18.99	18.72	20.0	0.0
Channel				345000	349000	352500		
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	18.87	19.00	18.72	20.0	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	18.87	19.00	18.72	20.0	0.0
Channel				345000	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	18.86	18.97	18.69	20.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	18.89	19.01	18.72	20.0	0.0
Channel				343000	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	18.88	19.02	18.66	20.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.82	19.05	18.63	20.0	0.0
Channel				342000	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	18.83	19.00	18.63	20.0	0.0



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n2 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				373000	376000	379000		
Frequency (MHz)				1865	1880	1895		
30	PI2 BPSK	1	1	20.56	20.79	20.74		
30	PI2 BPSK	1	53	20.90	20.92	20.91	22.0	0.0
30	PI2 BPSK	1	104	20.79	20.76	20.69		
30	PI2 BPSK	50	0	20.36	20.50	20.46	22.0	0.0
30	PI2 BPSK	50	38	20.79	20.91	20.48	22.0	0.0
30	PI2 BPSK	50	56	20.43	20.53	20.48	22.0	0.0
30	PI2 BPSK	100	0	20.46	20.50	20.46		
30	QPSK	1	1	20.78	20.83	20.80		
30	QPSK	1	53	20.83	20.98	20.96	22.0	0.0
30	QPSK	1	104	20.80	20.89	20.84		
30	QPSK	50	0	20.11	20.22	20.25	22.0	0.0
30	QPSK	50	28	20.82	20.93	20.88	22.0	0.0
30	QPSK	50	56	20.10	20.20	20.12	22.0	0.0
30	QPSK	100	0	20.60	20.77	20.63		
30	16QAM	1	1	20.75	20.87	20.77	22.0	0.0
30	64QAM	1	1	19.80	19.86	19.78	21.5	0.5
30	256QAM	1	1	17.74	17.80	17.68	19.5	2.5
Channel				372500	376000	379500		
Frequency (MHz)				1862.5	1880	1897.5		
25	QPSK	1	1	20.63	20.84	20.66	22.0	0.0
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	1	20.65	20.85	20.72	22.0	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1892.5		
15	QPSK	1	1	20.72	20.85	20.70	22.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	20.67	20.81	20.66	22.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	20.67	20.81	20.66	22.0	0.0

n25 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				374500	376500	378500		
Frequency (MHz)				1872.5	1882.5	1892.5		
45	PI2 BPSK	1	1	20.22	20.33	20.30		
45	PI2 BPSK	1	61	20.97	21.15	21.02	22.0	0.0
45	PI2 BPSK	1	121	20.41	20.42	20.35		
45	PI2 BPSK	121	0	20.46	20.51	20.40	22.0	0.0
45	PI2 BPSK	121	61	20.94	21.03	21.02	22.0	0.0
45	PI2 BPSK	121	121	20.52	20.59	20.55	22.0	0.0
45	PI2 BPSK	242	0	20.46	20.65	20.52		
45	QPSK	1	1	20.37	20.41	20.41		
45	QPSK	1	61	21.14	21.17	21.08	22.0	0.0
45	QPSK	1	121	20.45	20.50	20.43		
45	QPSK	121	0	20.12	20.13	20.11	22.0	0.0
45	QPSK	121	61	20.87	20.73	20.65	22.0	0.0
45	QPSK	121	121	20.10	20.22	20.03	22.0	0.0
45	QPSK	242	0	20.45	20.66	20.43		
45	16QAM	1	1	21.01	21.11	21.05	22.0	0.0
45	64QAM	1	1	19.75	19.84	19.79	21.5	0.5
45	256QAM	1	1	18.27	18.41	18.28	19.5	2.5
Channel				374000	376500	379000		
Frequency (MHz)				1870	1882.5	1895		
40	QPSK	1	1	20.96	20.97	20.92	0.0	0.0
Channel				373500	376500	379500		
Frequency (MHz)				1867.5	1882.5	1897.5		
35	QPSK	1	1	20.92	20.94	20.90	22.0	0.0
Channel				373000	376500	380000		
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	20.96	20.94	20.84	22.0	0.0
Channel				372500	376500	380500		
Frequency (MHz)				1862.5	1882.5	1892.5		
25	QPSK	1	1	20.92	21.01	20.93	22.0	0.0
Channel				372000	376500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	20.96	20.99	20.89	22.0	0.0
Channel				371500	376500	381500		
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	20.99	20.93	20.90	22.0	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	20.86	20.99	20.88	22.0	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	20.95	21.01	20.93	22.0	0.0

n66 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				345000	349000	351500		
Frequency (MHz)				1724.5	1745	1757.5		
45	PI2 BPSK	1	1	20.27	20.32	20.15		
45	PI2 BPSK	1	61	20.80	20.87	20.76	22.0	0.0
45	PI2 BPSK	1	121	20.17	20.24	20.06		
45	PI2 BPSK	121	0	20.50	20.60	20.42	22.0	0.0
45	PI2 BPSK	121	61	20.70	20.85	20.80	22.0	0.0
45	PI2 BPSK	121	121	20.48	20.50	20.38	22.0	0.0
45	PI2 BPSK	242	0	20.49	20.57	20.51		
45	QPSK	1	1	20.32	20.36	20.18		
45	QPSK	1	61	20.87	20.89	20.88	22.0	0.0
45	QPSK	1	121	20.13	20.22	20.17		
45	QPSK	121	0	20.26	20.21	20.11	22.0	0.0
45	QPSK	121	61	20.84	20.88	20.81	22.0	0.0
45	QPSK	121	121	20.22	20.15	20.18	22.0	0.0
45	QPSK	242	0	20.18	20.35	20.13		
45	16QAM	1	1	20.39	20.59	20.52	22.0	0.0
45	64QAM	1	1	19.80	19.73	19.65	21.5	0.5
45	256QAM	1	1	18.34	18.37	18.33	19.5	2.5
Channel				345000	349000	352000		
Frequency (MHz)				1720	1745	1760		
40	QPSK	1	1	20.74	20.73	20.69	22.0	0.0
Channel				345000	349000	352500		
Frequency (MHz)				1722.5	1745	1762.5		
35	QPSK	1	1	20.74	20.73	20.69	22.0	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.71	20.73	20.71	22.0	0.0
Channel				345000	349000	353500		
Frequency (MHz)				1727.5	1745	1767.5		
25	QPSK	1	1	20.72	20.75	20.78	22.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.70	20.75	20.74	22.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.68	20.77	20.71	22.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.75	20.71	20.72	22.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.71	20.75	20.77	22.0	0.0



ECIT Power for Other PA

n2 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1865	1880	1895		
30	PI2 BPSK	1	1	15.48	15.44	15.35		
30	PI2 BPSK	1	80	15.52	15.50	15.30	16.5	0.0
30	PI2 BPSK	1	188	15.46	15.40	15.36		
30	PI2 BPSK	80	0	15.46	15.40	15.30	16.5	0.0
30	PI2 BPSK	80	40	15.29	15.29	15.30	16.5	0.0
30	PI2 BPSK	80	80	15.31	15.39	15.43		
30	PI2 BPSK	160	0	15.36	15.29	15.28	16.5	0.0
30	QPSK	1	1	15.27	15.41	15.40		
30	QPSK	1	80	15.54	15.68	15.26	16.5	0.0
30	QPSK	1	188	15.28	15.60	15.46		
30	QPSK	80	0	15.14	15.33	15.32	16.5	0.0
30	QPSK	80	40	15.39	15.52	15.51	16.5	0.0
30	QPSK	80	80	15.40	15.20	15.36		
30	QPSK	160	0	15.39	15.45	15.40	16.5	0.0
30	16QAM	1	1	15.29	15.28	15.23	16.5	0.0
30	64QAM	1	1	15.07	15.41	15.12	16.5	0.0
30	256QAM	1	1	15.30	15.37	15.14	16.5	0.0
Channel								
Frequency (MHz)				37200	37600	37600	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.48	15.63	15.29	16.5	0.0
Channel								
Frequency (MHz)				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.50	15.65	15.29	16.5	0.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.55	15.62	15.25	16.5	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.47	15.73	15.91	16.5	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.51	15.58	15.35	16.5	0.0

n25 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1872.5	1882.5	1892.5		
45	PI2 BPSK	1	1	15.85	15.68	15.56		
45	PI2 BPSK	1	61	15.83	15.74	15.43	16.5	0.0
45	PI2 BPSK	1	121	15.83	15.61	15.57		
45	PI2 BPSK	121	0	15.96	15.58	15.40	16.5	0.0
45	PI2 BPSK	121	61	15.50	15.51	15.44	16.5	0.0
45	PI2 BPSK	121	121	15.55	15.52	15.56		
45	PI2 BPSK	242	0	15.53	15.49	15.50	16.5	0.0
45	QPSK	1	1	15.48	15.57	15.52		
45	QPSK	1	61	15.85	15.84	15.47	16.5	0.0
45	QPSK	1	121	15.45	15.67	15.57		
45	QPSK	121	0	15.38	15.55	15.46	16.5	0.0
45	QPSK	121	61	15.49	15.65	15.63	16.5	0.0
45	QPSK	121	121	15.52	15.41	15.55		
45	QPSK	242	0	15.54	15.57	15.56	16.5	0.0
45	16QAM	1	1	15.39	15.49	15.38	16.5	0.0
45	64QAM	1	1	15.31	15.55	15.32	16.5	0.0
45	256QAM	1	1	15.41	15.53	15.26	16.5	0.0
Channel								
Frequency (MHz)				374000	376500	379000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.52	15.60	15.23	16.5	0.0
Channel								
Frequency (MHz)				373500	376500	379500	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	15.42	15.70	15.29	16.5	0.0
Channel								
Frequency (MHz)				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.44	15.69	15.31	16.5	0.0
Channel								
Frequency (MHz)				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.45	15.60	15.29	16.5	0.0
Channel								
Frequency (MHz)				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.44	15.59	15.35	16.5	0.0
Channel								
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.44	15.63	15.27	16.5	0.0
Channel								
Frequency (MHz)				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.44	15.63	15.27	16.5	0.0
Channel								
Frequency (MHz)				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.42	15.66	15.32	16.5	0.0

n66 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				345500	349000	351500		
45	PI2 BPSK	1	1	16.04	15.94	15.96		
45	PI2 BPSK	1	61	15.99	16.04	15.82	17.0	0.0
45	PI2 BPSK	1	121	15.88	15.99	15.87		
45	PI2 BPSK	121	0	15.89	15.84	15.75	17.0	0.0
45	PI2 BPSK	121	61	15.76	15.86	15.81	17.0	0.0
45	PI2 BPSK	121	121	15.92	15.77	15.87		
45	PI2 BPSK	242	0	15.85	15.88	15.78	17.0	0.0
45	QPSK	1	1	15.75	15.88	15.89		
45	QPSK	1	61	16.01	16.20	15.85	17.0	0.0
45	QPSK	1	121	15.70	16.02	15.93		
45	QPSK	121	0	15.71	15.92	15.75	17.0	0.0
45	QPSK	121	61	15.75	15.99	16.00	17.0	0.0
45	QPSK	121	121	15.85	15.78	15.89		
45	QPSK	242	0	15.81	15.84	15.94	17.0	0.0
45	16QAM	1	1	15.64	15.75	15.63	17.0	0.0
45	64QAM	1	1	15.66	15.86	15.84	17.0	0.0
45	256QAM	1	1	15.73	15.89	15.62	17.0	0.0
Channel								
Frequency (MHz)				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.79	15.99	15.72	17.0	0.0
Channel								
Frequency (MHz)				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	15.79	15.99	15.72	17.0	0.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.87	16.00	15.72	17.0	0.0
Channel								
Frequency (MHz)				345500	349000	353500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.88	15.97	15.69	17.0	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.89	16.01	15.72	17.0	0.0
Channel								
Frequency (MHz)				345000	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.88	16.02	15.66	17.0	0.0
Channel								
Frequency (MHz)				345000	349000	355000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.82	16.05	15.63	17.0	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.83	16.00	15.63	17.0	0.0



<2.4GHz WLAN>

Mode	Channel	Full Power			Head Standalone		Head Simultaneous		Body Standalone		Extremity Standalone		Body Simultaneous		Hotspot Simultaneous		Extremity Simultaneous		Duty Cycle %
		Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11b 1Mbps	1	2412	19.38	21.00	18.59	20.00	12.18	14.00	18.12	20.00	19.12	21.00	13.65	15.50	18.56	18.50	15.11	17.00	99.14
	6	2437	19.38	21.00	18.87	20.00	12.45	14.00	18.38	20.00	19.38	21.00	13.89	15.50	18.83	18.50	15.28	17.00	
	11	2462	19.49	21.00	18.96	20.00	12.57	14.00	18.40	20.00	19.49	21.00	14.03	15.50	18.98	18.50	15.39	17.00	
802.11g 6Mbps	1	2412	20.50	22.00	19.50	20.00	14.00	16.00	18.18	20.00	19.18	21.00	14.50	16.50	19.50	19.50	16.50	17.00	96.70
	6	2437	20.50	22.00	19.50	20.00	14.00	16.00	18.18	20.00	19.18	21.00	14.50	16.50	19.50	19.50	16.50	17.00	
	11	2462	20.38	19.50	18.50	19.50	14.00	16.00	18.38	19.50	18.38	19.50	14.50	16.50	19.50	19.50	16.50	17.00	
802.11n-HT20 MCS0	1	2412	17.92	18.50	17.50	18.50	12.00	13.00	14.00	15.00	16.00	17.00	11.00	12.00	13.00	14.00	15.00	16.00	96.75
	6	2437	20.22	22.00	18.50	20.00	14.00	16.00	18.38	20.00	19.38	21.00	14.50	16.50	19.50	19.50	16.50	17.00	
	11	2462	17.76	18.50	17.50	18.50	12.00	13.00	14.00	15.00	16.00	17.00	11.00	12.00	13.00	14.00	15.00	16.00	

<5.2GHz WLAN>

Mode	Channel	Full Power & Head Standalone			Head Simultaneous & Extremity Standalone		Hotspot Simultaneous		Extremity Simultaneous		Body Standalone		Body Simultaneous		Duty Cycle %	
		Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	36	5180	19.36	21.00	17.71	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50	96.98		
	40	5200	19.30	21.50	17.89	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50			
	44	5220	19.84	21.50	17.54	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50			
802.11n-HT20 MCS0	48	5240	19.87	21.50	17.51	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50	96.77		
	36	5180	19.15	20.50	17.50	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50			
	40	5200	19.71	21.50	17.50	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50			
802.11n-HT40 MCS0	44	5220	19.72	21.50	17.50	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50	93.73		
	48	5240	19.68	21.50	17.50	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50			
	38	5180	19.54	21.50	17.50	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50			
802.11ac-VHT20 MCS0	46	5230	19.66	17.00	17.00	12.00	12.00	13.50	14.50	13.50	14.50	14.50	15.50	9.50	96.79	
	36	5180	19.21	21.00	17.50	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50			
	40	5200	19.80	21.50	17.50	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50			
802.11ac-VHT40 MCS0	44	5220	19.74	21.50	17.50	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50	93.71		
	48	5240	19.73	21.50	17.50	19.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50			
	38	5180	19.22	17.50	16.22	17.50	13.50	15.00	13.50	15.00	14.50	16.00	9.50			
802.11ac-VHT80 MCS0	46	5230	17.72	19.50	17.72	19.50	12.00	12.00	13.50	14.50	13.50	14.50	14.50	15.50	9.50	88.14
	42	5210	15.08	16.50	15.08	16.50	10.35	12.00	11.86	13.50	13.01	14.50	8.01	9.50		

<5.3GHz WLAN>

Mode	Channel	Full Power & Head Standalone			Head Simultaneous & Extremity Standalone		Extremity Simultaneous		Body Standalone		Body Simultaneous		Duty Cycle %		
		Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
802.11a 6Mbps	52	5290	19.86	21.50	19.50	21.00	13.50	15.00	14.50	16.00	9.50	96.98			
	36	5180	19.91	21.50	19.50	21.00	13.50	15.00	14.50	16.00	9.50				
	60	5300	19.85	21.50	19.50	21.00	13.50	15.00	14.50	16.00	9.50				
802.11n-HT20 MCS0	64	5320	19.01	20.50	19.50	20.50	13.50	15.00	14.50	16.00	9.50	96.77			
	52	5290	19.59	21.50	19.50	21.00	13.50	15.00	14.50	16.00	9.50				
	56	5290	19.63	21.50	19.50	21.00	13.50	15.00	14.50	16.00	9.50				
802.11n-HT40 MCS0	60	5300	19.67	21.50	19.50	21.00	13.50	15.00	14.50	16.00	9.50	93.73			
	64	5320	19.82	20.50	19.50	20.50	13.50	15.00	14.50	16.00	9.50				
	54	5270	19.66	17.00	17.00	12.00	12.00	13.50	14.50	13.50	14.50		14.50	15.50	9.50
802.11ac-VHT20 MCS0	62	5310	19.59	17.00	17.00	12.00	12.00	13.50	14.50	13.50	14.50	14.50	15.50	9.50	96.79
	52	5290	19.69	21.50	19.50	21.00	13.50	15.00	14.50	16.00	9.50				
	60	5300	19.76	21.50	19.50	21.00	13.50	15.00	14.50	16.00	9.50				
802.11ac-VHT40 MCS0	64	5320	19.91	20.50	19.50	20.50	13.50	15.00	14.50	16.00	9.50	93.71			
	54	5270	19.75	18.50	17.75	18.50	13.50	15.00	13.50	15.00	14.50		16.00	9.50	
	62	5310	19.16	17.50	16.16	17.50	13.50	15.00	13.50	15.00	14.50		16.00	9.50	
802.11ac-VHT80 MCS0	68	5350	19.69	17.00	16.69	17.00	11.83	13.50	13.19	14.50	8.05	9.50	88.14		

<5.5GHz WLAN>

Mode	Channel	Full Power & Head Standalone			Head Simultaneous		Body Standalone		Body Simultaneous		Extremity Simultaneous		Extremity Standalone		Duty Cycle %
		Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	100	5500	18.39	20.00	17.00	14.50	10.00	10.00	15.50	18.39	20.00	15.50	18.08	20.50	96.98
	116	5580	19.55	21.00	17.00	14.50	10.00	10.00	15.50	19.08	20.50	15.50	18.08	20.50	
	124	5600	19.44	21.00	17.00	14.50	10.00	10.00	15.50	18.93	20.50	15.50	18.08	20.50	
	132	5660	19.38	21.00	17.00	14.50	10.00	10.00	15.50	18.89	20.50	15.50	18.08	20.50	
	140	5700	18.15	19.50	17.00	14.50	10.00	10.00	15.50	18.15	19.50	15.50	18.08	20.50	
802.11n-HT20 MCS0	144	5720	19.12	19.50	17.00	14.50	10.00	10.00	15.50	18.12	19.50	15.50	18.08	20.50	96.77
	100	5500	18.63	20.00	17.00	14.50	10.00	10.00	15.50	18.63	20.00	15.50	18.08	20.50	
	118	5580	18.61	18.00	17.00	14.50	10.00	10.00	15.50	18.61	18.00	15.50	18.08	20.50	
	124	5600	19.21	20.00	17.00	14.50	10.00	10.00	15.50	19.21	20.00	15.50	18.08	20.50	
	132	5660	19.19	21.00	17.00	14.50	10.00	10.00	15.50	19.19	21.00	15.50	18.08	20.50	
802.11n-HT40 MCS0	140	5700	18.16	19.50	17.00	14.50	10.00	10.00	15.50	18.16	19.50	15.50	18.08	20.50	93.73
	144	5720	19.50	20.00	17.00	14.50	10.00	10.00	15.50	19.50	20.00	15.50	18.08	20.50	
	102	5510	15.28	16.50	16.50	14.50	10.00	10.00	15.50	15.28	16.50	15.50	18.08	20.50	
	110	5550	15.17	16.50	16.50	14.50	10.00	10.00	15.50	15.17	16.50	15.50	18.08	20.50	
	126	5630	15.02	16.50	16.50	14.50	10.00	10.00	15.50	15.02	16.50	15.50	18.08	20.50	
802.11ac-VHT20 MCS0	134	5670	14.69	16.50	16.50	14.50	10.00	10.00	15.50	14.69	16.50	15.50	18.08	20.50	96.79
	142	5710	14.55	16.00	16.00	14.50	10.00	10.00	15.50	14.55	16.00	15.50	18.08	20.50	
	116	5580	16.90	20.00	17.00	14.50	10.00	10.00	15.50	16.90	20.00	15.50	18.08	20.50	
	118	5580	16.70	18.00	17.00	14.50	10.00	10.00	15.50	16.70	18.00	15.50	18.08	20.50	
	124	5620	19.28	21.00	17.00	14.50	10.00	10.00	15.50	19.28	21.00	15.50	18.08	20.50	
802.11ac-VHT40 MCS0	132	5660	19.26	21.00	17.00	14.50	10.00	10.00	15.50	19.26	21.00	15.50	18.08	20.50	93.71
	140	5700	19.23	20.00	17.00	14.50	10.00	10.00	15.50	19.23	20.00	15.50	18.08	20.50	
	144	5720	18.57	20.00	17.00	14.50	10.00	10.00	15.50	18.57	20.00	15.50	18.08	20.50	
	102	5510	16.86	18.50	17.00	14.50	10.00	10.00	15.50	16.86	18.50	15.50			