



Full&Default Power Mode

GSM850 Ant Default				
Power Average Power (dBm)			Time-up	
TX Channel	126	180	201	201
Frequency (MHz)	813.2	813	813	813
GSM T1 Tx slot	32.00	32.00	33.00	33.00
OPRS 1 Tx slot	32.00	32.00	33.00	33.00
OPRS 2 Tx slot	32.00	32.00	33.00	33.00
OPRS 3 Tx slot	32.00	32.00	33.00	33.00
EDGE 1 Tx slot	32.00	32.00	33.00	33.00
EDGE 2 Tx slot	32.00	32.00	33.00	33.00
EDGE 3 Tx slot	32.00	32.00	33.00	33.00
EDGE 4 Tx slot	32.00	32.00	33.00	33.00

GSM1900 Ant Default				
Power Average Power (dBm)			Time-up	
TX Channel	810	810	810	810
Frequency (MHz)	1900.2	1900	1900.8	1900.8
GSM T1 Tx slot	32.00	32.00	33.00	33.00
OPRS 1 Tx slot	32.00	32.00	33.00	33.00
OPRS 2 Tx slot	32.00	32.00	33.00	33.00
OPRS 3 Tx slot	32.00	32.00	33.00	33.00
EDGE 1 Tx slot	32.00	32.00	33.00	33.00
EDGE 2 Tx slot	32.00	32.00	33.00	33.00
EDGE 3 Tx slot	32.00	32.00	33.00	33.00
EDGE 4 Tx slot	32.00	32.00	33.00	33.00

WCDMA II Ant Default				
Power Average Power (dBm)			Time-up	
TX Channel	810	810	810	810
Frequency (MHz)	1900.2	1900	1900.8	1900.8
GSM T1 Tx slot	32.00	32.00	33.00	33.00
OPRS 1 Tx slot	32.00	32.00	33.00	33.00
OPRS 2 Tx slot	32.00	32.00	33.00	33.00
OPRS 3 Tx slot	32.00	32.00	33.00	33.00
EDGE 1 Tx slot	32.00	32.00	33.00	33.00
EDGE 2 Tx slot	32.00	32.00	33.00	33.00
EDGE 3 Tx slot	32.00	32.00	33.00	33.00
EDGE 4 Tx slot	32.00	32.00	33.00	33.00

WCDMA IV Ant Default				
Power Average Power (dBm)			Time-up	
TX Channel	810	810	810	810
Frequency (MHz)	1900.2	1900	1900.8	1900.8
GSM T1 Tx slot	32.00	32.00	33.00	33.00
OPRS 1 Tx slot	32.00	32.00	33.00	33.00
OPRS 2 Tx slot	32.00	32.00	33.00	33.00
OPRS 3 Tx slot	32.00	32.00	33.00	33.00
EDGE 1 Tx slot	32.00	32.00	33.00	33.00
EDGE 2 Tx slot	32.00	32.00	33.00	33.00
EDGE 3 Tx slot	32.00	32.00	33.00	33.00
EDGE 4 Tx slot	32.00	32.00	33.00	33.00

WCDMA V Ant Default				
Power Average Power (dBm)			Time-up	
TX Channel	810	810	810	810
Frequency (MHz)	1900.2	1900	1900.8	1900.8
GSM T1 Tx slot	32.00	32.00	33.00	33.00
OPRS 1 Tx slot	32.00	32.00	33.00	33.00
OPRS 2 Tx slot	32.00	32.00	33.00	33.00
OPRS 3 Tx slot	32.00	32.00	33.00	33.00
EDGE 1 Tx slot	32.00	32.00	33.00	33.00
EDGE 2 Tx slot	32.00	32.00	33.00	33.00
EDGE 3 Tx slot	32.00	32.00	33.00	33.00
EDGE 4 Tx slot	32.00	32.00	33.00	33.00



Band 2 Ant0 Default									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power High Ch./Fires	Power High Ch./Fires	Turn-up Rate (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.13	23.16	23.08			
20	QPSK	1	49	23.07	23.11	23.01	24	0	
20	QPSK	1	99	22.98	23.04	22.95			
20	QPSK	50	0	22.39	22.42	22.40			
20	QPSK	50	24	22.23	22.27	22.20	23	1	
20	QPSK	50	50	22.24	22.30	22.20			
20	QPSK	100	0	22.26	22.30	22.32			
20	QPSK	100	50	22.23	22.24	22.27	23	1	
20	HQAM	1	49	22.25	22.30	22.21			
20	HQAM	1	99	22.11	22.23	22.15			
20	HQAM	50	0	21.19	21.22	21.17			
20	HQAM	50	24	21.07	21.17	21.02	22	2	
20	HQAM	50	50	21.00	21.10	20.96			
20	HQAM	100	0	20.97	21.09	20.95			
20	HQAM	1	0	21.05	21.17	21.12			
20	HQAM	1	49	21.08	21.12	21.02	22	2	
20	HQAM	1	99	20.99	21.05	20.91			
20	HQAM	50	0	19.96	20.05	19.98			
20	HQAM	50	24	19.94	20.00	19.93	21	3	
20	HQAM	50	50	19.84	19.93	19.83			
20	HQAM	100	0	20.00	20.08	19.97			
20	HQAM	1	49	18.05	18.17	18.12	19	5	
20	HQAM	1	99	18.02	18.10	17.98			
20	HQAM	50	0	18.09	18.16	18.12			
20	HQAM	50	24	17.96	18.04	17.90	19	5	
20	HQAM	50	50	17.96	18.04	18.00			
20	HQAM	100	0	18.00	18.05	17.95			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.07	18.00	18.05	Turn-up Rate (dB)	MFR (dB)	
15	QPSK	1	49	23.09	23.03	22.88			
15	QPSK	1	99	22.97	22.99	22.89	24	0	
15	QPSK	1	74	22.89	22.98	22.89			
15	QPSK	36	0	22.30	22.30	22.28			
15	QPSK	36	24	22.14	22.20	22.17	23	1	
15	QPSK	36	36	22.13	22.19	22.13			
15	HQAM	1	0	22.21	22.29	22.18			
15	HQAM	1	49	22.20	22.20	22.22	23	1	
15	HQAM	1	99	21.07	21.08	21.07			
15	HQAM	50	0	21.07	21.08	21.07			
15	HQAM	50	24	21.01	21.11	20.94	22	2	
15	HQAM	50	50	20.98	21.00	20.98			
15	HQAM	100	0	20.82	21.05	20.81			
15	HQAM	1	0	21.01	21.05	21.00	22	2	
15	HQAM	1	49	20.98	21.01	20.98			
15	HQAM	1	99	20.88	20.94	20.81			
15	HQAM	50	0	19.85	19.96	19.84	21	3	
15	HQAM	50	24	19.83	19.90	19.84			
15	HQAM	50	50	19.51	19.55	19.53			
15	HQAM	100	0	19.88	19.95	19.83			
15	HQAM	1	49	17.92	18.05	18.06	19	5	
15	HQAM	1	99	17.86	18.03	17.81			
15	HQAM	50	0	18.14	18.22	18.10			
15	HQAM	50	24	17.92	18.02	17.84	19	5	
15	HQAM	50	50	17.87	17.92	17.83			
15	HQAM	100	0	17.87	17.87	17.87			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.92	22.92	22.92	24	0	
10	QPSK	1	49	22.86	22.94	22.88			
10	QPSK	1	99	22.79	22.87	22.80			
10	QPSK	50	0	22.15	22.25	22.22	23	1	
10	QPSK	50	24	22.15	22.23	22.10			
10	QPSK	50	50	22.14	22.20	22.16	23	1	
10	HQAM	1	0	22.14	22.23	22.16			
10	HQAM	1	49	22.07	22.20	22.17	23	1	
10	HQAM	1	99	21.05	21.12	21.13			
10	HQAM	50	0	21.05	21.07	20.98	22	2	
10	HQAM	50	24	20.98	21.07	20.98			
10	HQAM	50	50	20.85	20.99	20.80			
10	HQAM	1	0	21.03	21.13	21.07	22	2	
10	HQAM	1	49	21.01	21.08	21.03			
10	HQAM	1	99	20.84	20.91	20.86			
10	HQAM	50	0	19.83	19.91	19.86	21	3	
10	HQAM	50	24	19.83	19.97	19.82			
10	HQAM	50	50	19.72	19.82	19.78			
10	HQAM	100	0	19.59	19.97	19.62			
10	HQAM	1	49	17.85	18.00	17.86	19	5	
10	HQAM	1	99	17.89	18.02	17.84			
10	HQAM	50	0	18.03	18.11	18.05			
10	HQAM	50	24	17.86	18.00	17.88	19	5	
10	HQAM	50	50	17.87	17.91	17.86			
10	HQAM	100	0	17.90	17.96	17.85			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.11	23.11	23.11	24	0	
5	QPSK	1	12	22.96	22.99	22.98			
5	QPSK	1	24	22.83	22.98	22.82			
5	QPSK	12	0	22.17	22.27	22.21	23	1	
5	QPSK	12	7	22.22	22.30	22.25			
5	QPSK	12	13	22.15	22.22	22.11			
5	QPSK	12	25	22.11	22.30	22.24	23	1	
5	HQAM	1	0	22.18	22.22	22.18			
5	HQAM	1	12	22.12	22.18	22.10	23	1	
5	HQAM	1	24	21.09	21.18	21.04			
5	HQAM	12	0	21.09	21.18	21.04			
5	HQAM	12	7	20.98	21.12	20.97	22	2	
5	HQAM	12	13	20.92	21.06	20.88			
5	HQAM	12	25	20.84	20.98	20.86			
5	HQAM	1	0	21.03	21.13	21.00	22	2	
5	HQAM	1	12	21.02	21.09	21.04			
5	HQAM	1	24	20.84	20.96	20.87			
5	HQAM	12	0	19.83	19.95	19.88	21	3	
5	HQAM	12	7	19.81	19.97	19.89			
5	HQAM	12	13	19.71	19.89	19.72			
5	HQAM	25	0	19.92	19.96	19.90			
5	HQAM	25	7	19.84	19.93	19.80			
5	HQAM	25	12	17.85	18.00	17.86	19	5	
5	HQAM	25	25	17.92	17.96	17.86			
5	HQAM	1	12	17.89	18.04	17.85			
5	HQAM	1	24	17.92	17.96	17.86	19	5	
5	HQAM	1	25	17.87	17.91	17.82			
5	HQAM	12	0	17.90	17.96	17.85			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.09	23.09	23.05	24	0	
3	QPSK	1	8	22.97	22.97	22.89			
3	QPSK	1	14	22.86	22.98	22.81			
3	QPSK	8	0	22.18	22.28	22.24	23	1	
3	QPSK	8	7	22.14	22.16	22.13			
3	QPSK	8	13	22.17	22.25	22.15			
3	HQAM	1	0	22.15	22.20	22.13	23	1	
3	HQAM	1	8	22.14	22.26	22.10			
3	HQAM	1	14	21.06	21.13	21.01	22	2	
3	HQAM	8	0	20.92	21.10	20.85			
3	HQAM	8	7	20.91	21.03	20.85			
3	HQAM	15	0	20.86	21.00	20.81			
3	HQAM	1	0	20.99	21.13	21.08	22	2	
3	HQAM	1	8	20.96	21.06	20.88			
3	HQAM	1	14	20.87	20.99	20.85			
3	HQAM	8	0	19.86	19.94	19.86	21	3	
3	HQAM	8	7	19.89	19.98	19.79			
3	HQAM	8	7	19.80	19.86	19.75			
3	HQAM	15	0	18.13	18.11	17.87	19	5	
3	HQAM	1	8	17.98	18.02	18.09			
3	HQAM	1	14	17.86	18.02	17.84			
3	HQAM	8	0	17.98	18.05	17.90	19	5	
3	HQAM	8	7	17.92	17.99	17.83			
3	HQAM	8	7	17.82	17.86	17.80			
3	HQAM	15	0	17.91	18.01	17.83			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.07	23.11	23.02	24	0	
1.4	QPSK	1	3	22.98	22.99	22.94			
1.4	QPSK	1	5	22.90	22.92	22.86			
1.4	QPSK	3	0	22.02	22.09	22.07	23	1	
1.4	QPSK	3	1	22.98	22.95	22.95			
1.4	QPSK	3	5	22.93	22.97	22.92			
1.4	QPSK	6	0	22.14	22.17	22.15	23	1	
1.4	HQAM	1	0	22.13	22.27	22.15			
1.4	HQAM	1	3	22.08	22.14	22.07	23	1	
1.4	HQAM	1	5	22.18	22.21	22.22			
1.4	HQAM	1	50	22.20	22.25	22.21			
1.4	HQAM	1	24	21.02	21.09	21.00	22	2	
1.4	HQAM	1	5	21.12	21.10	21.07			
1.4	HQAM	1	3	21.09	21.02	20.96			
1.4	HQAM	3	0	19.86	19.98	19.78	21	3	
1.4	HQAM	3							



Band 12 Ant0 Default														
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.99	23.05	22.81	24	0						
10	QPSK	1	25	22.94	23.00	22.96								
10	QPSK	1	49	22.85	22.93	22.78								
10	QPSK	25	0	21.91	22.02	21.89								
10	QPSK	25	12	21.91	21.97	21.81	23	1						
10	QPSK	25	25	21.84	21.90	21.78								
10	QPSK	50	0	21.82	21.90	21.81								
10	16QAM	1	0	21.85	21.82	21.85								
10	16QAM	1	25	21.83	21.87	21.87	23	1						
10	16QAM	1	49	21.70	21.80	21.74								
10	16QAM	25	0	20.48	20.58	20.53								
10	16QAM	25	12	20.49	20.53	20.49								
10	16QAM	25	25	20.42	20.46	20.36	22	2						
10	16QAM	50	0	20.55	20.61	20.58								
10	64QAM	1	0	20.80	20.83	20.71								
10	64QAM	1	25	20.70	20.78	20.66								
10	64QAM	25	0	20.58	20.67	20.64	21	3						
10	64QAM	25	0	19.48	19.55	19.49								
10	64QAM	25	12	19.43	19.50	19.46								
10	64QAM	25	25	19.35	19.43	19.34								
10	256QAM	1	0	17.65	17.75	17.67	19	5						
10	256QAM	1	25	17.65	17.70	17.65								
10	256QAM	1	49	17.51	17.63	17.57								
10	256QAM	25	0	17.46	17.55	17.48								
10	256QAM	25	12	17.44	17.50	17.39	19	5						
10	256QAM	25	25	17.39	17.43	17.32								
10	256QAM	50	0	17.50	17.56	17.42								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.91	22.91	22.80	24	0						
5	QPSK	1	12	22.91	22.96	22.87								
5	QPSK	1	24	22.71	22.79	22.71								
5	QPSK	12	0	21.82	21.90	21.74								
5	QPSK	12	7	21.84	21.93	21.87	23	1						
5	QPSK	12	13	21.77	21.80	21.62								
5	QPSK	25	0	21.75	21.83	21.68								
5	16QAM	1	0	21.78	21.78	21.74								
5	16QAM	1	12	21.76	21.79	21.59	23	1						
5	16QAM	1	24	21.69	21.68	21.63								
5	16QAM	12	0	20.34	20.48	20.46								
5	16QAM	12	7	20.46	20.41	20.28								
5	16QAM	12	7	20.46	20.41	20.28	22	2						
5	16QAM	25	0	20.42	20.49	20.47								
5	64QAM	1	0	20.73	20.73	20.59								
5	64QAM	1	24	20.68	20.75	20.63								
5	64QAM	1	24	20.47	20.55	20.59	21	3						
5	64QAM	12	0	19.43	19.50	19.36								
5	64QAM	12	7	19.36	19.37	19.29								
5	64QAM	12	13	19.20	19.25	19.21								
5	64QAM	25	0	19.43	19.53	19.38	19	5						
5	256QAM	1	0	17.54	17.56	17.44								
5	256QAM	1	12	17.57	17.59	17.51								
5	256QAM	1	24	17.41	17.52	17.51								
5	256QAM	12	0	17.35	17.42	17.38	19	5						
5	256QAM	12	7	17.37	17.42	17.24								
5	256QAM	12	13	17.29	17.33	17.24								
5	256QAM	25	0	17.40	17.46	17.42								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.89	22.96	22.85	24	0						
3	QPSK	1	8	22.83	22.88	22.81								
3	QPSK	1	14	22.78	22.83	22.74								
3	QPSK	8	0	21.77	21.90	21.81								
3	QPSK	8	4	21.79	21.87	21.86	23	1						
3	QPSK	8	7	21.75	21.84	21.68								
3	QPSK	15	0	21.73	21.82	21.75								
3	16QAM	1	0	21.80	21.80	21.79								
3	16QAM	1	8	21.78	21.79	21.64	23	1						
3	16QAM	1	14	21.69	21.76	21.60								
3	16QAM	8	0	20.34	20.40	20.44								
3	16QAM	8	4	20.37	20.48	20.29								
3	16QAM	8	7	20.26	20.36	20.30	22	2						
3	16QAM	15	0	20.49	20.53	20.48								
3	64QAM	1	0	20.68	20.79	20.63								
3	64QAM	1	8	20.65	20.72	20.54								
3	64QAM	1	14	20.54	20.57	20.58	21	3						
3	64QAM	8	0	19.41	19.40	19.45								
3	64QAM	8	4	19.37	19.36	19.35								
3	64QAM	8	7	19.31	19.31	19.23								
3	64QAM	15	0	19.48	19.50	19.35	19	5						
3	256QAM	1	0	17.53	17.50	17.65								
3	256QAM	1	8	17.53	17.59	17.60								
3	256QAM	1	14	17.48	17.59	17.49								
3	256QAM	8	0	17.38	17.47	17.25	19	5						
3	256QAM	8	4	17.37	17.42	17.29								
3	256QAM	8	7	17.30	17.32	17.25								
3	256QAM	15	0	17.42	17.53	17.41								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.84	22.90	22.87	24	0						
1.4	QPSK	1	3	22.81	22.89	22.80								
1.4	QPSK	1	5	22.81	22.84	22.68								
1.4	QPSK	3	0	22.80	22.86	22.85								
1.4	QPSK	3	1	22.85	22.97	22.80	23	1						
1.4	QPSK	3	3	22.77	22.83	22.64								
1.4	QPSK	8	0	21.80	21.99	21.75								
1.4	16QAM	1	0	21.87	21.86	21.87								
1.4	16QAM	1	3	21.79	21.85	21.63	23	1						
1.4	16QAM	1	5	21.73	21.80	21.77								
1.4	16QAM	3	0	21.74	21.78	21.79								
1.4	16QAM	3	1	21.69	21.73	21.66								
1.4	16QAM	3	3	21.56	21.72	21.68	22	2						
1.4	16QAM	8	0	20.43	20.47	20.46								
1.4	64QAM	1	0	20.37	20.40	20.29								
1.4	64QAM	1	3	20.33	20.31	20.21								
1.4	64QAM	1	5	20.50	20.50	20.59	22	2						
1.4	64QAM	3	0	20.72	20.71	20.69								
1.4	64QAM	3	1	20.67	20.64	20.61								
1.4	64QAM	3	3	20.45	20.67	20.53								
1.4	64QAM	8	0	19.46	19.48	19.34	21	3						
1.4	256QAM	1	0	17.52	17.67	17.64								
1.4	256QAM	1	3	17.51	17.58	17.54								
1.4	256QAM	1	5	17.36	17.52	17.49								
1.4	256QAM	3	0	17.35	17.43	17.34	19	5						
1.4	256QAM	3	1	17.33	17.42	17.28								
1.4	256QAM	3	3	17.30	17.39	17.24								
1.4	256QAM	8	0	17.39	17.50	17.59								

Band 25 Ant0 Default												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.13	23.18	23.06			24	0		
20	QPSK	1	49	22.93	23.13	22.78						
20	QPSK	1	98	22.89	23.06	22.77			23	1		
20	QPSK	50	0	22.02	22.05	21.94						
20	QPSK	50	24	21.00	22.00	21.00			23	1		
20	QPSK	50	50	21.78	21.93	21.67						
20	QPSK	100	0	21.00	22.02	21.01			23	1		
20	HQAM	1	0	21.00	21.97	21.00						
20	HQAM	1	99	21.73	22.02	21.61			22	2		
20	HQAM	50	0	20.45	20.99	20.47						
20	HQAM	50	24	20.48	20.95	20.44			22	2		
20	HQAM	50	50	20.41	20.89	20.39						
20	HQAM	100	0	20.43	20.97	20.45			21	3		
20	HQAM	1	0	20.75	20.92	20.59						
20	HQAM	1	49	20.54	20.95	20.52			21	3		
20	HQAM	50	0	19.43	19.84	19.46						
20	HQAM	50	24	19.41	19.82	19.35			19	5		
20	HQAM	50	50	19.38	19.86	19.38						
20	HQAM	1	0	17.68	17.67	17.51			19	5		
20	HQAM	1	98	17.69	17.81	17.46						
20	HQAM	1	99	17.65	17.79	17.46			19	5		
20	HQAM	50	0	17.40	17.66	17.37						
20	HQAM	50	24	17.31	17.79	17.31			19	5		
20	HQAM	50	50	17.30	17.64	17.37						
20	HQAM	100	0	17.45	17.77	17.45			Turn-up Init. (dB) MPE (dB)			
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.08	22.04	22.03			24	0		
15	QPSK	1	49	22.09	22.08	22.07						
15	QPSK	1	74	22.79	22.98	22.72			23	1		
15	QPSK	36	0	21.00	22.01	21.00						
15	QPSK	36	20	21.00	21.98	21.02			23	1		
15	QPSK	36	36	21.70	21.79	21.54						
15	QPSK	75	0	21.00	21.89	21.00			23	1		
15	HQAM	1	0	21.77	21.87	21.69						
15	HQAM	1	37	21.55	22.01	21.55			23	1		
15	HQAM	1	74	21.62	21.91	21.67						
15	HQAM	36	0	20.38	20.78	20.36			22	2		
15	HQAM	36	20	20.37	20.80	20.32						
15	HQAM	36	36	20.34	20.76	20.34			22	2		
15	HQAM	75	0	20.33	20.81	20.39						
15	HQAM	1	0	20.85	20.88	20.47			22	2		
15	HQAM	1	37	20.82	20.85	20.47						
15	HQAM	1	74	20.47	20.77	20.42			21	3		
15	HQAM	36	0	19.31	19.73	19.33						
15	HQAM	36	20	19.33	19.74	19.34			21	3		
15	HQAM	36	36	19.25	19.70	19.33						
15	HQAM	75	0	19.29	19.74	19.34			19	5		
15	HQAM	1	0	17.43	17.74	17.43						
15	HQAM	1	37	17.47	17.68	17.43			19	5		
15	HQAM	1	74	17.47	17.74	17.34						
15	HQAM	36	0	17.36	17.66	17.36			19	5		
15	HQAM	36	20	17.34	17.68	17.32						
15	HQAM	36	39	17.23	17.54	17.24			19	5		
15	HQAM	75	0	17.40	17.47	17.35						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.08	22.14	22.03			24	0		
10	QPSK	1	25	22.84	23.08	22.68						
10	QPSK	1	49	22.77	22.97	22.89			23	1		
10	QPSK	25	0	21.00	21.99	21.00						
10	QPSK	25	12	21.84	21.95	21.75			23	1		
10	QPSK	25	25	21.67	21.80	21.58						
10	QPSK	50	0	21.00	21.98	21.00			23	1		
10	HQAM	1	0	21.89	21.83	21.68						
10	HQAM	1	25	21.67	22.03	21.54			22	2		
10	HQAM	1	49	21.66	21.98	21.67						
10	HQAM	25	0	20.40	20.76	20.40			22	2		
10	HQAM	25	12	20.40	20.71	20.38						
10	HQAM	25	25	20.32	20.75	20.34			21	3		
10	HQAM	50	0	20.37	20.79	20.39						
10	HQAM	1	0	20.65	20.79	20.50			22	2		
10	HQAM	1	25	20.42	20.84	20.45						
10	HQAM	1	49	20.52	20.79	20.38			21	3		
10	HQAM	25	0	19.35	19.80	19.34						
10	HQAM	25	12	19.36	19.71	19.35			20	4		
10	HQAM	25	25	19.34	19.67	19.40						
10	HQAM	50	0	19.31	19.79	19.34			19	5		
10	HQAM	1	0	17.63	17.62	17.45						
10	HQAM	1	25	17.47	17.74	17.32			19	5		
10	HQAM	1	49	17.47	17.69	17.39						
10	HQAM	25	0	17.30	17.68	17.25			19	5		
10	HQAM	25	12	17.21	17.70	17.26						
10	HQAM	25	25	17.24	17.63	17.31			19	5		
10	HQAM	50	0	17.35	17.67	17.30						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.08	22.14	22.03			24	0		
5	QPSK	1	12	22.83	23.07	22.68						
5	QPSK	1	24	22.79	22.98	22.75			23	1		
5	QPSK	12	0	21.04	21.91	21.05						
5	QPSK	12	7	21.85	21.87	21.68			23	1		
5	QPSK	12	13	21.68	21.79	21.55						
5	QPSK	25	0	21.04	21.97	21.04			23	1		
5	HQAM	1	0	21.83	21.87	21.77						
5	HQAM	1	12	21.67	21.95	21.66			22	2		
5	HQAM	1	24	21.68	21.98	21.48						
5	HQAM	12	0	20.36	20.78	20.41			22	2		
5	HQAM	12	7	20.38	20.81	20.34						
5	HQAM	12	13	20.35	20.68	20.31			21	3		
5	HQAM	25	0	20.39	20.72	20.41						
5	HQAM	1	0	20.44	20.80	20.32			22	2		
5	HQAM	1	12	20.46	20.83	20.48						
5	HQAM	1	24	20.49	20.80	20.38			21	3		
5	HQAM	12	0	19.36	19.75	19.36						
5	HQAM	12	7	19.38	19.78	19.27			20	4		
5	HQAM	12	13	19.29	19.73	19.32						
5	HQAM	25	0	19.33	19.77	19.34			19	5		
5	HQAM	1	0	17.64	17.73	17.49						
5	HQAM	1	8	17.62	17.68	17.48			19	5		
5	HQAM	1	24	17.48	17.67	17.31						
5	HQAM	12	0	17.27	17.68	17.22			19	5		
5	HQAM	12	13	17.19	17.60	17.23						
5	HQAM	25	0	17.35	17.75	17.34			Turn-up Init. (dB) MPE (dB)			
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.07	22.08	22.07			24	0		
3	QPSK	1	8	22.85	23.05	22.71						
3	QPSK	1	14	22.78	22.92	22.86			23	1		
3	QPSK	8	0	21.00	21.99	21.00						
3	QPSK	8	4	21.80	21.87	21.62			23	1		
3	QPSK	8	7	21.69	21.84	21.63						
3	QPSK	16	0	21.05	21.93	21.03			23	1		
3	HQAM	1	0	21.84	21.84	21.68						
3	HQAM	1	8	21.68	21.98	21.50			22	2		
3	HQAM	1	14	21.58	21.95	21.48						
3	HQAM	8	0	20.42	20.86	20.42			22	2		
3	HQAM	8	4	20.43	20.76	20.38						
3	HQAM	8	7	20.33	20.75	20.32			21	3		
3	HQAM	16	0	20.45	20.88	20.45						
3	HQAM	1	8	20.46	20.83	20.43			22	2		
3	HQAM	1	14	20.48	20.84	20.43						
3	HQAM	8	0	19.33	19.76	19.33			21	3		
3	HQAM	8	4	19.33	19.68	19.28						
3	HQAM	8	7	19.28	19.73	19.28			20	4		
3	HQAM	16	0	19.26	19.76	19.32						
3	HQAM	1	0	17.47	17.46	17.38			19	5		
3	HQAM	1	8	17.47	17.75	17.47						
3	HQAM	1	14	17.41	17.67	17.37			19	5		
3	HQAM	8	0	17.24	17.65	17.28						
3	HQAM	8	7	17.26	17.49	17.28			19	5		
3	HQAM	16	0	17.43	17.63	17.28						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.10	22.14	22.01			24	0		
1.4	QPSK	1	8	22.89	23.04	22.71						
1.4	QPSK	1	14	22.74	22.92	22.72			23	1		
1.4	QPSK	7	0	21.00	21.98	21.00						
1.4	QPSK	7	4	21.87	21.96	21.67			23	1		
1.4	QPSK	7	7	21.69	21.90	21.63						
1.4	QPSK	14	0	21.05	21.93	21.03			23	1		
1.4	HQAM	1	0	21.88	21.96	21.61						
1.4	HQAM	1	8	21.72	21.82	21.54			22	2		
1.4	HQAM	1	14	21.68	21.92	21.48						
1.4	HQAM	7	0	20.42	20.77	20.35			22	2		
1.4	HQAM	7	4	20.34	20.70	20.36						
1.4	HQAM	7	7	20.30	20.70	20.35			21	3		
1.4	HQAM	14	0	20.38	20.73	20.34						
1.4	HQAM	1	8	20.39	20.62	20.32			22	2		
1.4	HQAM	1	14	20.41	20.77	20.33						
1.4	HQAM	7	0	19.40	19.79	19.41			21	3		
1.4	HQAM	7	4	19.42	19.74	19.36						
1.4	HQAM	7	7	19.34	19.71	19.31			20	4		
1.4	HQAM	14	0	19.36	19.68	19.32						

Band 66 Ant0 Default												
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 150072	Power Mid Ch./Freq. 150122	Power High Ch./Freq. 150152	Turn-up time (sec)	MPN (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.24	23.36	23.11			24	0		
20	QPSK	1	49	23.15	23.21	23.08						
20	QPSK	1	99	23.10	23.14	22.98						
20	QPSK	50	0	22.17	22.27	22.24						
20	QPSK	50	24	22.13	22.22	22.09			23	1		
20	QPSK	50	50	22.11	22.15	22.08						
20	QPSK	100	0	22.13	22.22	22.16						
20	16QAM	1	0	22.33	22.48	22.27						
20	16QAM	1	49	22.29	22.43	22.18			23	1		
20	16QAM	1	99	22.24	22.36	22.17						
20	16QAM	50	0	21.30	21.36	21.17						
20	16QAM	50	24	21.19	21.31	21.13						
20	16QAM	50	50	21.14	21.24	21.04			22	2		
20	16QAM	100	0	21.18	21.29	21.04						
20	84QAM	1	0	21.31	21.46	21.27						
20	84QAM	1	49	21.30	21.35	21.16						
20	84QAM	1	99	21.17	21.26	21.03			21	3		
20	84QAM	50	0	20.25	20.35	20.21						
20	84QAM	50	24	20.22	20.28	20.13						
20	84QAM	50	50	20.15	20.27	20.05						
20	84QAM	100	0	20.14	20.27	20.08			19	5		
20	84QAM	1	49	18.12	18.22	18.05						
20	84QAM	1	49	18.16	18.25	18.07						
20	256QAM	1	99	18.12	18.22	18.05						
20	256QAM	50	0	18.19	18.26	18.14						
20	256QAM	50	24	18.14	18.21	18.02						
20	256QAM	50	50	17.99	18.14	17.85						
20	256QAM	100	0	18.16	18.25	18.08			19	5		
20	256QAM	1	99	18.16	18.25	18.07						
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.18	23.18	22.86					24	0
15	QPSK	1	37	23.02	23.06	22.87						
15	QPSK	1	74	23.04	23.11	22.89						
15	QPSK	36	0	22.11	22.23	22.11						
15	QPSK	36	20	22.00	22.07	22.03			23	1		
15	QPSK	36	36	22.03	22.01	21.99						
15	QPSK	75	0	22.06	22.11	22.04						
15	16QAM	1	0	22.22	22.42	22.12						
15	16QAM	1	37	22.16	22.35	22.14			23	1		
15	16QAM	1	74	22.17	22.34	22.16						
15	16QAM	36	0	21.19	21.32	21.10						
15	16QAM	36	20	21.12	21.22	21.08						
15	16QAM	36	36	21.06	21.18	21.04			22	2		
15	16QAM	75	0	21.03	21.23	20.95						
15	84QAM	1	0	21.22	21.36	21.18						
15	84QAM	1	37	21.17	21.35	21.12						
15	84QAM	1	74	21.05	21.21	20.97			21	3		
15	84QAM	36	0	20.14	20.21	20.16						
15	84QAM	36	20	20.10	20.14	20.01						
15	84QAM	36	36	20.01	20.11	19.94						
15	84QAM	75	0	20.02	20.19	19.93			19	5		
15	256QAM	1	0	18.16	18.24	18.12						
15	256QAM	1	37	18.03	18.25	17.95						
15	256QAM	1	74	18.02	18.12	17.91						
15	256QAM	36	0	18.10	18.17	18.02			19	5		
15	256QAM	36	20	18.07	18.09	17.96						
15	256QAM	36	39	17.90	18.07	17.80						
15	256QAM	75	0	18.10	18.10	18.04						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.17	23.18	22.84			24	0		
10	QPSK	1	25	23.01	23.12	22.94						
10	QPSK	1	49	23.05	23.05	22.85						
10	QPSK	25	12	22.00	22.14	21.95						
10	QPSK	25	25	22.04	22.05	22.00			23	1		
10	QPSK	25	50	22.00	22.00	21.92						
10	16QAM	1	0	22.28	22.35	22.23						
10	16QAM	1	25	22.26	22.29	22.11						
10	16QAM	1	49	22.21	22.26	22.09			22	2		
10	16QAM	25	0	21.25	21.33	21.07						
10	16QAM	25	12	21.12	21.27	21.07						
10	16QAM	25	25	21.06	21.18	21.01						
10	16QAM	50	0	21.04	21.19	20.89			22	2		
10	84QAM	1	0	21.26	21.38	21.21						
10	84QAM	1	25	21.10	21.30	21.08						
10	84QAM	1	49	21.04	21.17	20.92						
10	84QAM	25	0	20.19	20.19	20.15			21	3		
10	84QAM	25	12	20.06	20.24	20.03						
10	84QAM	25	25	20.07	20.15	19.98						
10	84QAM	50	0	20.10	20.13	20.00						
10	256QAM	1	0	18.16	18.21	18.05			19	5		
10	256QAM	1	25	18.05	18.15	17.95						
10	256QAM	1	49	18.01	18.18	17.91						
10	256QAM	25	0	18.12	18.15	18.01						
10	256QAM	25	12	18.05	18.18	17.91			19	5		
10	256QAM	25	25	17.96	18.00	17.83						
10	256QAM	50	0	18.08	18.15	17.95						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.17	23.18	22.84			24	0		
5	QPSK	1	12	23.10	23.11	22.93						
5	QPSK	1	24	22.99	23.04	22.83						
5	QPSK	12	0	22.06	22.24	22.09						
5	QPSK	12	7	21.99	22.12	21.98			23	1		
5	QPSK	12	13	22.08	22.07	21.94						
5	QPSK	25	0	22.16	22.18	22.02						
5	16QAM	1	0	22.23	22.44	22.13						
5	16QAM	1	12	22.23	22.36	22.09			23	1		
5	16QAM	1	24	22.18	22.21	22.13						
5	16QAM	12	0	21.25	21.26	21.14						
5	16QAM	12	7	21.09	21.34	21.02						
5	16QAM	12	13	21.07	21.15	20.92			22	2		
5	16QAM	25	0	21.11	21.15	20.94						
5	84QAM	1	0	21.22	21.34	21.20						
5	84QAM	1	12	21.25	21.21	21.12						
5	84QAM	1	24	21.13	21.15	20.93			21	3		
5	84QAM	12	0	20.19	20.29	20.16						
5	84QAM	12	7	20.15	20.22	20.04						
5	84QAM	12	13	20.04	20.09	20.00						
5	84QAM	25	0	20.01	20.15	19.94			19	5		
5	256QAM	1	0	18.15	18.22	18.02						
5	256QAM	1	12	18.02	18.17	18.02						
5	256QAM	1	24	18.02	18.07	18.00						
5	256QAM	12	0	18.13	18.12	18.11			19	5		
5	256QAM	12	7	18.04	18.13	17.92						
5	256QAM	12	13	17.95	18.05	17.82						
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.21	23.16	22.93					24	0
3	QPSK	1	8	23.10	23.16	22.95						
3	QPSK	1	14	23.06	23.00	22.84						
3	QPSK	8	0	22.05	22.14	22.13						
3	QPSK	8	4	22.01	22.15	22.01			23	1		
3	QPSK	8	7	22.08	22.12	22.03						
3	QPSK	15	0	21.09	22.08	22.12						
3	16QAM	1	0	22.25	22.93	22.15						
3	16QAM	1	8	22.21	22.38	22.06			23	1		
3	16QAM	1	14	22.13	22.20	22.06						
3	16QAM	8	0	21.24	21.51	21.06			22	2		
3	16QAM	8	7	21.09	21.20	20.95						
3	16QAM	8	14	21.06	21.24	21.01			22	2		
3	16QAM	8	0	21.21	21.36	21.23						
3	16QAM	8	8	21.21	21.31	21.05						
3	16QAM	8	0	20.18	20.20	20.15						
3	16QAM	8	4	20.11	20.24	19.99			21	3		
3	16QAM	8	8	20.04	20.18	19.97						
3	16QAM	15	0	19.11	19.21	19.12						
3	16QAM	15	8	19.02	19.19	17.92						
3	16QAM	1	14	17.87	18.12	17.84			19	5		
3	256QAM	1	0	18.12	18.22	18.05						
3	256QAM	1	8	18.07	18.10	17.97						
3	256QAM	8	7	17.89	18.09	17.81						
3	256QAM	8	14	17.86	18.07	17.78			19	5		
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.11	23.19	22.97					24	0
1.4	QPSK	1	6	23.07	23.17	22.92						
1.4	QPSK	1	6	23.05	23.08	22.90						
1.4	QPSK	3	0	22.02	22.07	22.01						
1.4	QPSK	3	3	22.00	22.11	22.05			23	1		
1.4	QPSK	3	6	22.02	22.07	22.01						
1.4	16QAM	1	0	22.08	22.20	22.11						
1.4	16QAM	1	3	22.08	22.08	22.03						
1.4	16QAM	3	0	22.26	22.42	22.17			23	1		
1.4	16QAM	3	3	22.21	22.31	22.12						
1.4	16QAM	3	6	22.12	22.23	22.08						
1.4	16QAM	6	0	21.24	21.26	21.10						
1.4	16QAM	6	3	21.15	21.21	21.07			22	2		
1.4	16QAM	6	6	21.27	21.29	21.25						
1.4	16QAM	6	9	21.07	21.15	20.94						
1.4	16QAM	6	0	20.11	20.21	19.93						
1.4	16QAM	6	3	20.12	20.18	20.01			21	3		
1.4	16QAM	6	6	20.17	20.18	20.04						
1.4	16QAM	6	9	19.10	19.18	17.98						
1.4	16QAM	1	0	18.02	18.12	17.96						
1.4	16QAM	1	3	18.00	18.02	18.00			19	5		
1.4	16QAM	1	6	18.02	18.10	17.94						
1.4	16QAM	1	9	18.02	18.10	17.94						
1.4	256QAM	1	0	18.00								



Band 38 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37950	38050	38150			
20	QPSK	1	0	23.15	23.15	23.14			
20	QPSK	1	49	23.02	23.11	23.04	24	0	
20	QPSK	1	89	22.96	23.04	22.98			
20	QPSK	50	0	22.14	22.19	22.16			
20	QPSK	50	24	22.08	22.14	22.01	23	1	
20	QPSK	50	49	22.02	22.13	21.97			
20	QPSK	100	0	22.11	22.13	22.09			
20	QPSK	1	0	22.06	22.18	21.94	23	1	
20	HQAM	1	49	22.02	22.13	21.97			
20	HQAM	1	99	22.00	22.19	21.96			
20	HQAM	50	24	21.97	22.18	21.90			
20	HQAM	50	49	21.91	22.16	21.85	22	2	
20	HQAM	50	50	21.86	22.19	21.83			
20	HQAM	100	0	21.96	22.17	21.93			
20	HQAM	1	0	21.89	22.15	21.75			
20	HQAM	1	49	21.87	22.05	21.85	22	2	
20	HQAM	1	99	21.75	22.03	21.61			
20	HQAM	50	0	21.09	22.03	21.06			
20	HQAM	50	24	21.03	22.18	21.00	21	3	
20	HQAM	50	50	21.03	22.11	21.00			
20	HQAM	100	0	21.01	22.14	21.07			
20	25QAM	1	0	18.09	18.13	18.03			
20	25QAM	1	49	18.04	18.08	18.00	19	5	
20	25QAM	1	99	17.95	18.01	17.90			
20	25QAM	50	0	18.16	18.24	18.09			
20	25QAM	50	24	18.16	18.19	18.08	19	5	
20	25QAM	50	50	18.06	18.12	17.92			
20	25QAM	100	0	18.06	18.16	18.01			
Channel									
Frequency (MHz)				37925	38025	38125	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	23.15	23.15	23.14			
15	QPSK	1	37	22.86	23.06	22.98	24	0	
15	QPSK	1	74	22.94	22.80	22.94			
15	QPSK	36	0	22.05	22.11	22.11			
15	QPSK	36	20	22.01	22.08	21.93	23	1	
15	QPSK	36	36	22.03	22.02	21.97			
15	QPSK	75	0	22.03	22.02	22.03			
15	HQAM	1	0	22.02	22.14	21.85	23	1	
15	HQAM	1	37	21.90	22.00	21.78			
15	HQAM	1	74	21.90	22.01	21.90			
15	HQAM	36	0	21.00	21.11	21.00			
15	HQAM	36	20	21.00	21.02	20.96	22	2	
15	HQAM	36	36	20.93	21.04	20.76			
15	HQAM	75	0	20.94	21.13	20.95			
15	HQAM	75	0	20.91	20.91	20.86			
15	HQAM	1	37	20.79	20.79	20.61	22	2	
15	HQAM	1	74	20.63	20.76	20.54			
15	HQAM	36	0	20.00	20.13	19.94	21	3	
15	HQAM	36	20	19.95	20.11	19.95			
15	HQAM	36	36	19.95	20.00	19.86			
15	HQAM	75	0	19.97	20.00	19.95			
15	25QAM	1	0	17.95	18.02	17.88	19	5	
15	25QAM	1	37	17.90	17.99	17.83			
15	25QAM	1	74	17.80	17.89	17.63			
15	25QAM	36	0	18.02	18.18	17.93	19	5	
15	25QAM	36	20	18.05	18.08	17.90			
15	25QAM	36	36	17.99	18.06	17.85			
15	25QAM	75	0	18.00	18.06	17.88			
Channel									
Frequency (MHz)				2575	2585	2595	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	23.01	23.01	23.01			
5	QPSK	1	25	22.92	22.99	22.98	24	0	
5	QPSK	1	49	22.90	22.87	22.86			
5	QPSK	12	0	22.90	22.97	22.90			
5	QPSK	25	12	21.96	22.05	21.89	23	1	
5	QPSK	25	25	21.95	21.97	21.87			
5	HQAM	1	0	21.96	22.14	21.87	23	1	
5	HQAM	1	25	21.99	22.03	21.74			
5	HQAM	1	49	21.98	21.99	21.87			
5	HQAM	25	0	21.01	21.08	20.93			
5	HQAM	25	12	21.01	21.11	20.86	22	2	
5	HQAM	25	25	21.00	21.01	20.90			
5	HQAM	50	0	20.98	21.01	20.88			
5	HQAM	50	12	20.90	21.00	20.80	22	2	
5	HQAM	50	25	20.79	20.80	20.52			
5	HQAM	1	49	20.62	20.75	20.50			
5	HQAM	25	0	19.94	20.15	20.00	21	3	
5	HQAM	25	12	20.01	20.03	20.03			
5	HQAM	25	25	19.92	19.98	19.79			
5	HQAM	50	0	19.94	20.19	19.92			
5	25QAM	1	0	17.95	18.09	17.90	19	5	
5	25QAM	1	25	17.97	18.05	17.82			
5	25QAM	1	49	17.81	17.87	17.66			
5	25QAM	12	0	17.98	18.17	17.86			
5	25QAM	25	12	18.05	18.08	17.94	19	5	
5	25QAM	25	25	17.97	18.01	17.85			
5	25QAM	50	0	18.08	18.00	18.33			
Channel									
Frequency (MHz)				2575.5	2585.5	2595.5	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	23.01	23.04	23.07	24	0	
5	QPSK	1	12	22.97	22.97	22.99			
5	QPSK	1	24	22.84	22.88	22.82			
5	QPSK	12	0	22.86	22.89	22.86			
5	QPSK	12	7	21.90	22.07	21.97	23	1	
5	QPSK	12	13	21.88	22.03	21.95			
5	QPSK	25	0	22.05	22.05	22.05			
5	HQAM	1	0	21.93	22.06	21.84	23	1	
5	HQAM	1	12	21.96	21.99	21.83			
5	HQAM	1	24	21.97	21.99	21.86			
5	HQAM	12	0	21.00	21.07	20.94			
5	HQAM	12	7	21.01	21.02	20.94	22	2	
5	HQAM	12	13	21.05	21.07	20.74			
5	HQAM	25	0	20.98	21.09	20.94			
5	HQAM	1	0	20.76	20.83	20.66			
5	HQAM	12	0	20.63	20.79	20.66	22	2	
5	HQAM	1	24	20.61	20.76	20.48			
5	HQAM	12	7	19.99	20.15	19.96	21	3	
5	HQAM	25	0	19.92	20.08	19.94			
5	HQAM	12	13	19.98	20.06	19.86			
5	HQAM	25	0	19.92	20.08	19.94			
5	25QAM	1	0	17.95	18.03	17.85	19	5	
5	25QAM	1	12	17.95	18.04	17.86			
5	25QAM	1	24	17.81	17.88	17.66			
5	25QAM	12	0	18.05	18.11	17.92			
5	25QAM	12	7	18.07	18.07	17.86	19	5	
5	25QAM	12	13	18.01	18.09	17.78			
5	25QAM	25	0	18.07	18.01	18.35			

Band 41 Ant0 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
15	QPSK	1	0	22.95	23.02	23.15	23.05	23.12		
15	QPSK	1	49	23.15	23.10	23.19	23.05	23.11	24	0
15	QPSK	1	99	23.00	23.15	23.00	23.01			
15	QPSK	50	0	22.12	22.17	22.20	22.19	22.19		
15	QPSK	50	24	22.14	22.08	22.21	22.08	22.07	23	1
15	QPSK	50	49	22.01	22.10	22.10	22.04	22.01		
15	QPSK	100	0	22.19	22.15	22.22	22.16	22.09		
15	16QAM	1	0	22.08	22.10	22.15	22.10	22.05	23	1
15	16QAM	1	49	22.01	22.10	21.21	22.04	22.01		
15	16QAM	1	99	21.98	21.85	22.03	21.91	21.98		
15	16QAM	50	24	21.13	21.12	21.26	21.20	21.13		
15	16QAM	50	24	21.17	21.16	21.21	21.15	21.15	22	2
15	16QAM	50	50	21.08	21.07	21.14	21.04	21.06		
15	16QAM	100	0	21.09	21.16	21.09	21.09	21.05		
15	64QAM	1	0	21.02	21.04	21.09	21.07	21.02	22	2
15	64QAM	1	49	20.91	20.85	21.03	20.90	20.98		
15	64QAM	1	99	20.90	20.85	20.96	20.88	20.93		
15	64QAM	50	0	20.19	20.11	20.24	20.13	20.15		
15	64QAM	50	24	20.06	20.04	20.19	20.14	20.15	21	3
15	64QAM	50	50	19.98	20.05	20.12	20.04	20.09		
15	64QAM	100	0	20.11	20.10	20.19	20.11	20.18		
15	25QAM	1	0	18.15	18.22	18.28	18.14	18.21		
15	25QAM	1	49	18.18	18.18	18.23	18.08	18.18	19	5
15	25QAM	1	99	18.12	18.11	18.16	18.06	18.12		
15	25QAM	50	0	18.16	18.16	18.22	18.12	18.12		
15	25QAM	50	24	18.06	18.11	18.17	18.08	18.12	19	5
15	25QAM	50	50	18.00	17.88	18.10	17.88	18.01		
15	25QAM	100	0	18.12	18.16	18.10	18.04	18.13		
Channel										
Frequency (MHz)				39725	40173	40620	41058	41515	Tune-up limit (dBm)	MFR (dB)
15	QPSK	1	0	22.95	23.03	23.15	23.07	23.19		
15	QPSK	1	49	23.15	23.02	23.14	23.04	23.15	24	0
15	QPSK	1	99	23.00	23.08	23.06	23.03	23.05		
15	QPSK	1	74	22.95	22.96	23.00	22.98	23.01		
15	QPSK	50	0	22.12	22.13	22.20	22.19	22.18		
15	QPSK	50	24	22.08	22.05	22.16	21.94	22.07	23	1
15	QPSK	50	49	22.01	22.06	22.06	21.98	22.05		
15	QPSK	75	0	22.08	22.03	22.17	22.11	21.95		
15	16QAM	1	0	22.02	22.04	22.09	22.04	21.99		
15	16QAM	1	49	21.97	21.93	22.01	21.97	21.93	23	1
15	16QAM	1	74	21.87	21.81	21.90	21.77	21.82		
15	16QAM	50	0	21.00	20.97	21.07	21.08	21.04		
15	16QAM	50	24	21.07	21.06	21.10	21.04	21.05	22	2
15	16QAM	50	49	21.02	20.93	21.00	20.97	21.01		
15	16QAM	75	0	21.01	21.04	21.06	20.99	21.05		
15	64QAM	1	0	20.90	20.80	20.93	20.97	20.96		
15	64QAM	1	37	20.84	20.85	20.94	20.87	20.89	22	2
15	64QAM	1	74	20.76	20.77	20.85	20.79	20.75		
15	64QAM	50	0	20.12	19.97	20.16	20.09	20.07		
15	64QAM	50	20	19.93	20.00	20.12	20.07	20.05	21	3
15	64QAM	50	49	19.87	19.98	20.10	19.98	20.04		
15	25QAM	1	0	18.02	18.05	18.09	17.99	18.02		
15	25QAM	1	37	18.04	18.05	18.09	17.99	17.99	19	5
15	25QAM	1	74	18.02	18.03	18.10	17.94	17.88		
15	25QAM	50	0	18.02	18.03	18.08	17.95	17.97		
15	25QAM	50	20	17.86	17.88	17.88	17.82	17.87	19	5
15	25QAM	50	49	17.88	18.05	17.92	17.87	17.88		
Channel										
Frequency (MHz)				39700	40160	40620	41058	41540	Tune-up limit (dBm)	MFR (dB)
15	QPSK	1	0	22.91	23.02	23.13	23.03	23.15		
15	QPSK	1	25	23.01	22.98	23.08	23.01	22.99	24	0
15	QPSK	1	50	22.91	22.96	23.00	22.97	23.00		
15	QPSK	25	0	22.01	22.08	22.20	22.13	22.07	23	00.07
15	QPSK	25	12	22.07	21.95	22.14	21.88	22.07		
15	QPSK	25	25	22.08	22.07	22.10	21.97	21.93	23	1
15	QPSK	50	0	22.02	22.10	22.13	22.05	21.99		
15	16QAM	1	0	22.01	22.02	22.07	22.01	21.94		
15	16QAM	1	25	21.96	21.90	22.00	21.93	21.93	23	1
15	16QAM	1	49	21.90	21.86	21.95	21.85	21.94		
15	16QAM	25	0	21.08	21.00	21.21	21.16	21.08		
15	16QAM	25	12	21.04	21.04	21.10	21.05	21.03	21	2
15	16QAM	25	25	20.99	20.99	21.10	20.91	20.92		
15	16QAM	50	0	20.08	20.11	20.20	20.09	20.14		
15	64QAM	1	0	20.90	20.79	20.99	20.97	20.98		
15	64QAM	1	25	20.78	20.81	20.96	20.84	20.92	22	2
15	64QAM	1	49	20.78	20.78	20.89	20.80	20.89		
15	64QAM	25	0	20.09	20.02	20.13	20.10	20.11		
15	64QAM	25	12	19.98	19.97	20.12	20.09	20.05	21	3
15	64QAM	25	25	19.88	19.90	20.05	19.96	19.91		
15	64QAM	50	0	20.05	20.05	20.11	19.96	20.01		
15	64QAM	50	25	19.98	19.98	20.11	19.91	19.91		
15	25QAM	1	0	18.07	18.10	18.13	18.02	17.96		
15	25QAM	1	49	18.07	18.07	18.08	17.86	18.04		
15	25QAM	25	0	18.07	18.07	18.13	17.99	18.03		
15	25QAM	25	12	17.91	18.06	18.02	17.94	18.07		
15	25QAM	25	25	17.87	17.83	18.02	17.84	17.97		
15	25QAM	50	0	18.05	18.06	18.10	17.96	18.05		
Channel										
Frequency (MHz)				39675	40168	40620	41058	41565	Tune-up limit (dBm)	MFR (dB)
5	QPSK	1	0	22.86	22.97	23.13	23.04	23.16		
5	QPSK	1	12	23.05	23.01	23.14	22.93	23.03	24	00.0
5	QPSK	1	25	22.95	22.96	23.00	22.97	23.00		
5	QPSK	12	0	22.05	22.05	22.22	22.10	22.13		
5	QPSK	12	12	22.01	22.04	22.14	22.03	22.11	23	1
5	QPSK	12	25	21.89	21.90	22.00	21.92	21.99		
5	QPSK	25	0	22.14	22.04	22.16	22.07	22.03		
5	16QAM	1	0	21.94	22.02	22.08	21.97	21.91	23	1
5	16QAM	1	12	21.96	21.90	22.00	21.91	21.97		
5	16QAM	1	24	21.90	21.81	21.95	21.79	21.90		
5	16QAM	12	0	21.04	21.04	21.19	21.11	21.11	23	1
5	16QAM	12	7	21.08	21.04	21.13	21.01	21.03	22	2
5	16QAM	12	13	21.03	20.94	21.07	20.98	20.93		
5	64QAM	1	0	20.94	20.90	21.03	20.89	20.87		
5	64QAM	1	12	20.82	20.91	20.91	20.77	20.90	22	2
5	64QAM	1	24	20.78	20.81	20.92	20.72	20.72		
5	64QAM	12	0	20.10	20.05	20.18	20.09	20.05		
5	64QAM	12	7	19.99	19.97	20.11	20.01	20.03		
5	64QAM	12	13	19.92	19.91	20.05	19.91	19.95		
5	25QAM	1	0	18.08	18.07	18.12	18.04	18.08		
5	25QAM	1	24	18.00	18.01	18.10	18.01	18.03		
5	25QAM	12	0	18.07	18.06	18.13	17.99	18.05		
5	25QAM	12	7	17.96	18.00	18.04	17.84	17.94		
5	25QAM	12	13	17.87	17.92	18.00	17.88	17.94	19	5



Band 2 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Hsp / Freq	Power Ch / Freq	Turn-up Time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.97	23.13	23.05			
20	QPSK	1	49	21.14	21.29	21.18	24	0	
20	QPSK	1	99	22.89	23.09	22.96			
20	QPSK	50	0	22.12	22.15	22.14			
20	QPSK	50	24	21.88	21.98	21.93	23	1	
20	QPSK	50	50	21.88	22.02	21.89			
20	QPSK	100	0	22.08	22.10	22.08			
20	QPSK	100	24	22.35	22.45	22.37	23	1	
20	QPSK	1	49	22.31	22.40	22.28			
20	QPSK	1	99	22.23	22.35	22.29			
20	QPSK	1	99	21.15	21.29	21.18	22	2	
20	QPSK	50	24	21.14	21.19	21.08			
20	QPSK	50	50	21.00	21.11	21.04			
20	QPSK	100	0	21.08	21.29	21.14			
20	QPSK	1	0	21.21	21.34	21.29			
20	QPSK	1	49	21.24	21.29	21.15	22	2	
20	QPSK	1	99	21.15	21.29	21.07			
20	QPSK	50	0	20.22	20.24	20.15			
20	QPSK	50	24	20.15	20.19	20.13	21	3	
20	QPSK	50	50	20.07	20.15	20.08			
20	QPSK	100	0	20.19	20.26	20.17			
20	QPSK	1	49	18.15	18.22	18.14	19	5	
20	QPSK	1	99	18.05	18.15	18.00			
20	QPSK	50	24	18.07	18.12	18.02	19	5	
20	QPSK	50	50	17.96	18.06	18.02			
20	QPSK	100	0	17.96	18.06	18.00			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.92	23.08	22.96			
15	QPSK	1	49	21.81	21.91	21.86	24	0	
15	QPSK	1	74	22.83	22.87	22.89			
15	QPSK	36	0	22.19	22.13	22.19			
15	QPSK	36	24	22.07	22.10	22.05	23	1	
15	QPSK	36	39	21.87	22.09	21.88			
15	QPSK	75	0	22.13	22.07	22.11			
15	QPSK	75	24	22.25	22.32	22.28	23	1	
15	QPSK	1	37	22.23	22.27	22.24			
15	QPSK	1	74	21.82	21.87	21.82	22	2	
15	QPSK	36	0	21.02	21.15	21.13			
15	QPSK	36	20	21.00	21.06	20.99			
15	QPSK	75	0	21.10	21.19	21.00	21	3	
15	QPSK	75	0	21.11	21.15	20.98			
15	QPSK	36	0	20.09	20.10	20.05			
15	QPSK	36	24	20.02	20.04	19.97	21	3	
15	QPSK	36	39	20.02	20.04	19.97			
15	QPSK	75	0	20.12	20.17	20.11			
15	QPSK	75	0	20.12	20.17	20.11			
15	QPSK	1	37	18.07	18.09	18.08	19	5	
15	QPSK	1	74	17.96	18.05	17.93			
15	QPSK	36	0	18.15	18.14	18.06	19	5	
15	QPSK	36	20	17.94	18.02	17.99			
15	QPSK	36	39	17.83	17.87	17.88			
15	QPSK	75	0	18.10	18.07	18.05			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.96	23.00	22.98			
10	QPSK	1	25	22.96	23.03	22.95	24	0	
10	QPSK	1	49	22.77	22.91	22.89			
10	QPSK	1	74	22.88	22.94	22.89			
10	QPSK	25	13	21.88	22.04	21.89	23	1	
10	QPSK	25	25	21.82	21.86	21.83			
10	QPSK	25	39	21.82	21.86	21.83			
10	QPSK	75	0	22.07	22.20	22.17			
10	QPSK	1	25	22.14	22.22	22.04	23	1	
10	QPSK	1	49	22.08	22.16	22.14			
10	QPSK	1	74	21.07	21.13	21.05	22	2	
10	QPSK	25	13	21.03	21.08	21.03			
10	QPSK	25	25	21.03	21.08	21.03			
10	QPSK	25	39	21.08	21.18	21.03	21	3	
10	QPSK	1	0	21.08	21.23	21.25			
10	QPSK	1	25	21.03	21.13	21.11	22	2	
10	QPSK	1	49	21.08	21.18	21.03			
10	QPSK	25	0	20.08	20.12	20.10			
10	QPSK	25	13	19.15	19.13	19.05	21	3	
10	QPSK	25	25	19.09	20.04	20.01			
10	QPSK	25	39	19.05	19.08	19.03			
10	QPSK	75	0	18.15	18.13	18.08	19	5	
10	QPSK	1	25	18.02	18.10	18.11			
10	QPSK	1	49	18.02	18.06	17.98			
10	QPSK	25	13	17.95	18.02	17.96	19	5	
10	QPSK	25	25	17.85	17.96	17.96			
10	QPSK	25	39	17.85	17.96	17.96			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.94	23.00	22.97			
5	QPSK	1	12	22.88	22.94	22.89	24	0	
5	QPSK	1	24	22.84	22.89	22.89			
5	QPSK	12	0	22.02	22.05	22.01			
5	QPSK	12	7	21.89	21.99	21.90	23	1	
5	QPSK	12	13	21.84	21.99	21.79			
5	QPSK	12	19	21.87	21.99	21.86	23	1	
5	QPSK	1	0	22.13	22.20	22.21			
5	QPSK	1	12	22.11	22.19	22.08	23	1	
5	QPSK	1	24	22.08	22.13	22.08			
5	QPSK	12	0	21.03	21.13	21.07	22	2	
5	QPSK	12	7	21.03	21.03	21.04			
5	QPSK	12	13	21.03	21.03	21.04			
5	QPSK	12	19	21.08	21.18	21.11	21	3	
5	QPSK	1	0	21.17	21.22	21.11	22	2	
5	QPSK	1	24	21.04	21.09	20.98			
5	QPSK	12	0	20.07	20.10	20.05			
5	QPSK	12	7	20.07	20.08	20.07			
5	QPSK	12	13	20.02	20.10	20.02	21	3	
5	QPSK	12	19	20.10	20.15	20.05			
5	QPSK	25	0	19.13	19.12	19.15	19	5	
5	QPSK	25	13	18.15	18.12	18.08			
5	QPSK	25	19	17.96	18.02	17.97			
5	QPSK	25	25	17.85	17.96	17.96	19	5	
5	QPSK	75	0	18.15	18.08	18.04			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.98	23.00	23.00			
3	QPSK	1	8	22.97	22.99	22.95	24	0	
3	QPSK	1	14	22.77	22.89	22.84			
3	QPSK	8	0	22.08	22.12	22.04			
3	QPSK	8	4	21.91	22.05	21.86	23	1	
3	QPSK	8	7	21.75	21.90	21.81			
3	QPSK	15	0	22.01	22.04	22.06			
3	QPSK	1	0	22.11	22.20	22.22			
3	QPSK	1	8	22.10	22.21	22.05	23	1	
3	QPSK	1	15	22.00	22.19	22.09			
3	QPSK	8	0	21.01	21.09	21.13	22	2	
3	QPSK	8	4	21.09	21.09	20.98			
3	QPSK	15	0	20.97	21.02	20.94			
3	QPSK	1	0	21.12	21.20	21.08			
3	QPSK	1	0	21.18	21.21	21.18	22	2	
3	QPSK	1	21	21.13	21.19	21.09			
3	QPSK	1	14	21.10	21.08	20.99			
3	QPSK	8	0	20.12	20.17	20.10	21	3	
3	QPSK	8	4	20.01	20.07	20.04			
3	QPSK	8	7	20.02	20.02	19.95			
3	QPSK	15	0	19.13	19.13	19.08			
3	QPSK	1	8	18.11	18.08	18.00	19	5	
3	QPSK	1	15	18.00	18.07	18.00			
3	QPSK	8	0	18.08	18.13	17.99			
3	QPSK	8	4	17.84	18.03	18.00	19	5	
3	QPSK	8	7	17.93	17.98	17.96			
3	QPSK	15	0	18.02	18.07	18.04			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.83	22.97	22.93			
1.4	QPSK	1	3	22.97	22.94	22.90	24	0	
1.4	QPSK	1	5	22.79	22.86	22.89			
1.4	QPSK	3	0	22.89	22.98	22.91			
1.4	QPSK	3	1	22.92	22.99	22.86			
1.4	QPSK	3	5	22.77	22.86	22.86	23	1	
1.4	QPSK	3	9	22.91	22.98	22.90			
1.4	QPSK	1	0	21.91	22.00	21.92			
1.4	QPSK	1	3	21.75	21.81	21.76	23	1	
1.4	QPSK	1	5	22.01	22.03	22.01			
1.4	QPSK	1	9	22.15	22.17	22.14			
1.4	QPSK	1	0	22.15	22.27	22.25			
1.4	QPSK	3	0	22.08	22.11	22.02	22	2	
1.4	QPSK	3	3	22.08	22.15	22.11			
1.4	QPSK	3	5	21.00	21.03	20.97	21	3	
1.4	QPSK	3	9	21.00	21.03	20.97			

Band 12 Ant1 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Tune-up freq. (MHz)	MPR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.03	23.10	23.09	24	0						
10	QPSK	1	25	22.85	23.02	22.99								
10	QPSK	1	49	22.84	22.88	22.86								
10	QPSK	25	0	21.85	21.83	21.86	23	1						
10	QPSK	25	12	21.82	21.88	21.84								
10	QPSK	25	25	21.77	21.81	21.72								
10	QPSK	50	0	21.73	21.62	21.78	23	1						
10	16QAM	1	0	22.27	22.37	22.33								
10	16QAM	1	25	22.19	22.32	22.26								
10	16QAM	1	49	22.18	22.25	22.11	22	2						
10	16QAM	25	0	20.90	20.97	20.84								
10	16QAM	25	12	20.77	20.92	20.87								
10	16QAM	25	25	20.81	20.85	20.72	21	3						
10	16QAM	50	0	20.78	20.84	20.71								
10	64QAM	1	0	21.08	21.21	21.09								
10	64QAM	1	25	21.10	21.16	21.10	22	2						
10	64QAM	1	49	20.95	21.09	20.96								
10	64QAM	25	0	19.82	19.96	19.89								
10	64QAM	25	12	19.78	19.91	19.80	21	3						
10	64QAM	25	25	19.72	19.84	19.71								
10	64QAM	50	0	19.76	19.82	19.75								
10	256QAM	1	25	18.05	18.16	18.10	19	5						
10	256QAM	1	49	17.83	18.06	17.99								
10	256QAM	25	0	17.82	17.88	17.75								
10	256QAM	25	12	17.82	17.89	17.72	19	5						
10	256QAM	25	25	17.71	17.81	17.74								
10	256QAM	50	0	17.69	17.76	17.68								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.59	22.59	22.56	24	0						
5	QPSK	1	12	22.86	22.86	22.82								
5	QPSK	1	24	22.81	22.88	22.81								
5	QPSK	12	0	21.70	21.84	21.76	23	1						
5	QPSK	12	7	21.77	21.78	21.72								
5	QPSK	12	13	21.69	21.67	21.69								
5	QPSK	25	0	21.63	21.71	21.70	23	1						
5	16QAM	1	0	22.13	22.32	22.29								
5	16QAM	1	12	22.04	22.22	22.14								
5	16QAM	1	24	22.08	22.22	22.09	22	2						
5	16QAM	12	0	20.77	20.88	20.72								
5	16QAM	12	7	20.63	20.82	20.78								
5	16QAM	12	13	20.69	20.76	20.66	22	2						
5	64QAM	1	0	21.01	21.15	21.04								
5	64QAM	1	12	20.88	21.01	20.95								
5	64QAM	1	24	20.82	21.02	20.87	21	3						
5	64QAM	12	0	19.77	19.90	19.81								
5	64QAM	12	7	19.86	19.94	19.74								
5	64QAM	12	13	19.58	19.72	19.52	19	5						
5	64QAM	25	0	19.64	19.75	19.64								
5	256QAM	1	0	18.11	18.07	18.01								
5	256QAM	1	12	17.98	18.10	18.04	19	5						
5	256QAM	1	24	17.80	18.05	17.87								
5	256QAM	12	0	17.86	17.92	17.86								
5	256QAM	12	7	17.68	17.79	17.61	19	5						
5	256QAM	12	13	17.68	17.67	17.61								
5	256QAM	25	0	17.62	17.77	17.68								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.82	22.82	22.81	24	0						
3	QPSK	1	14	22.85	22.88	22.80								
3	QPSK	1	0	21.76	21.81	21.78								
3	QPSK	8	7	21.74	21.83	21.74	23	1						
3	QPSK	8	7	21.73	21.78	21.62								
3	QPSK	16	0	21.69	21.69	21.67								
3	16QAM	1	0	22.17	22.22	22.24	23	1						
3	16QAM	1	8	22.12	22.28	22.14								
3	16QAM	1	16	22.06	22.17	22.03								
3	16QAM	8	0	20.97	20.94	20.79	22	2						
3	16QAM	8	4	20.66	20.81	20.74								
3	16QAM	8	7	20.77	20.77	20.65								
3	16QAM	16	0	20.70	20.70	20.62	22	2						
3	64QAM	1	0	20.96	21.14	21.03								
3	64QAM	1	8	21.02	21.05	21.01								
3	64QAM	1	14	20.83	20.98	20.89	21	3						
3	64QAM	8	0	19.70	19.88	19.76								
3	64QAM	8	4	19.73	19.82	19.66								
3	64QAM	8	7	19.63	19.80	19.66	19	5						
3	64QAM	16	0	19.65	19.74	19.70								
3	256QAM	1	0	18.12	18.10	18.05								
3	256QAM	1	8	17.99	18.10	18.07	19	5						
3	256QAM	1	14	17.86	17.90	17.92								
3	256QAM	8	0	17.71	17.80	17.66								
3	256QAM	8	4	17.88	17.78	17.89	19	5						
3	256QAM	8	7	17.68	17.72	17.65								
3	256QAM	16	0	17.66	17.71	17.59								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.82	22.82	22.81	24	0						
1.4	QPSK	1	3	22.84	22.88	22.76								
1.4	QPSK	1	5	22.80	22.86	22.74								
1.4	QPSK	3	0	22.87	22.92	22.86	23	1						
1.4	QPSK	3	1	22.80	22.87	22.89								
1.4	QPSK	3	3	22.85	22.85	22.78								
1.4	QPSK	6	0	21.70	21.89	21.78	23	1						
1.4	16QAM	1	0	21.78	21.73	21.89								
1.4	16QAM	1	3	21.72	21.71	21.89								
1.4	16QAM	1	6	21.60	21.75	21.67	23	1						
1.4	16QAM	3	0	22.13	22.32	22.23								
1.4	16QAM	3	1	22.16	22.28	22.17								
1.4	16QAM	12	3	22.12	22.12	22.08	22	2						
1.4	16QAM	6	0	20.77	20.84	20.71								
1.4	64QAM	1	0	20.67	20.81	20.72								
1.4	64QAM	1	3	20.68	20.77	20.61	22	2						
1.4	64QAM	1	5	20.66	20.70	20.65								
1.4	64QAM	3	0	20.97	21.09	21.05								
1.4	64QAM	3	3	20.95	20.94	20.84	21	3						
1.4	64QAM	6	0	19.64	19.75	19.64								
1.4	256QAM	1	0	18.09	18.14	18.04								
1.4	256QAM	1	3	17.84	18.00	17.96	19	5						
1.4	256QAM	1	5	17.83	17.96	17.89								
1.4	256QAM	3	0	17.85	17.78	17.71								
1.4	256QAM	3	1	17.76	17.79	17.61	19	5						
1.4	256QAM	6	0	17.67	17.91	17.63								
1.4	256QAM	6	0	17.65	17.71	17.58								



Band 25 Ant1 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	23.03	23.13	23.07	24	0						
20	QPSK	1	49	22.99	23.08	23.01								
20	QPSK	1	99	22.86	22.97	22.91								
20	QPSK	50	0	22.16	22.22	22.20								
20	QPSK	50	24	22.10	22.17	22.09	23	1						
20	QPSK	50	50	22.04	22.10	21.99								
20	QPSK	100	0	22.15	22.25	22.18								
20	16QAM	1	0	22.30	22.43	22.32								
20	16QAM	1	49	22.28	22.38	22.38	23	1						
20	16QAM	1	99	22.27	22.31	22.16								
20	16QAM	50	0	21.04	21.13	21.10								
20	16QAM	50	24	21.00	21.06	21.00								
20	16QAM	50	50	20.94	21.06	20.96	22	2						
20	16QAM	100	0	21.03	21.15	21.08								
20	64QAM	1	0	21.21	21.28	21.20								
20	64QAM	1	49	21.18	21.23	21.16								
20	64QAM	1	99	21.03	21.15	21.00	21	3						
20	64QAM	50	0	20.10	20.15	20.06								
20	64QAM	50	24	19.99	20.10	20.04								
20	64QAM	50	50	19.95	20.03	19.99								
20	64QAM	100	0	20.12	20.21	20.09	19	5						
20	256QAM	1	49	18.09	18.23	18.05								
20	256QAM	1	99	18.04	18.17	18.00								
20	256QAM	50	0	18.00	18.11	17.99								
20	256QAM	50	24	18.00	18.12	17.98	19	5						
20	256QAM	50	50	17.97	18.07	17.98								
20	256QAM	50	50	17.83	18.00	17.83								
20	256QAM	100	0	18.06	18.16	18.03								
Turn-up time (sec)														
MFR (dB)														
Channel														
Frequency (MHz)														
18	QPSK	1	0	22.93	23.01	23.01	24	0						
18	QPSK	1	37	22.86	22.94	22.87								
18	QPSK	1	74	22.76	22.89	22.78								
18	QPSK	36	0	22.03	22.14	22.06								
18	QPSK	36	25	21.98	22.06	21.94	23	1						
18	QPSK	36	39	22.01	21.99	21.93								
18	QPSK	75	0	22.06	22.11	22.12								
18	16QAM	1	0	22.16	22.36	22.23								
18	16QAM	1	37	22.18	22.24	22.21	23	1						
18	16QAM	1	74	22.16	22.23	22.13								
18	16QAM	36	0	21.00	21.14	21.02								
18	16QAM	36	25	21.00	21.08	21.07								
18	16QAM	36	39	21.11	21.23	21.11	22	2						
18	16QAM	75	0	20.95	21.08	20.94								
18	64QAM	1	0	21.11	21.23	21.11								
18	64QAM	1	37	21.11	21.08	21.08								
18	64QAM	1	74	20.93	21.05	20.95	21	3						
18	64QAM	36	0	19.98	20.03	20.03								
18	64QAM	36	25	19.87	20.06	19.98								
18	64QAM	36	39	19.96	19.95	19.93								
18	64QAM	75	0	20.05	20.06	19.94	19	5						
18	256QAM	1	49	18.05	18.06	18.05								
18	256QAM	1	37	17.91	18.05	18.09								
18	256QAM	1	74	17.85	18.07	17.83								
18	256QAM	50	0	17.87	17.95	17.84	19	5						
18	256QAM	50	24	17.85	17.96	17.90								
18	256QAM	50	39	17.85	17.82	17.84								
18	256QAM	75	0	18.00	18.08	17.92								
Turn-up time (sec)														
MFR (dB)														
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.88	22.91	22.89	24	0						
10	QPSK	1	25	22.87	23.01	22.91								
10	QPSK	1	49	22.72	22.96	22.78								
10	QPSK	12	0	22.05	22.06	22.06								
10	QPSK	25	12	21.97	22.11	22.04	23	1						
10	QPSK	25	25	21.93	22.02	21.90								
10	QPSK	50	0	22.07	22.18	22.12								
10	16QAM	1	0	22.18	22.40	22.25								
10	16QAM	1	25	22.13	22.27	22.20	23	1						
10	16QAM	1	49	22.15	22.23	22.08								
10	16QAM	25	0	20.99	21.05	21.09								
10	16QAM	25	12	20.98	21.03	21.00								
10	16QAM	36	0	20.84	20.97	20.89	22	2						
10	16QAM	36	25	20.88	21.05	20.94								
10	64QAM	1	0	21.17	21.22	21.12								
10	64QAM	1	25	21.08	21.12	21.08								
10	64QAM	1	49	20.98	21.06	20.92	21	3						
10	64QAM	25	0	19.98	20.02	19.95								
10	64QAM	25	12	19.93	20.00	19.94								
10	64QAM	25	25	19.83	19.90	19.87								
10	64QAM	50	0	20.01	20.16	20.04	19	5						
10	256QAM	1	49	18.03	18.13	18.05								
10	256QAM	1	25	17.98	18.10	18.02								
10	256QAM	1	49	17.87	18.04	17.86								
10	256QAM	25	0	17.96	17.95	17.83	19	5						
10	256QAM	25	12	17.93	18.00	17.88								
10	256QAM	25	25	17.87	17.94	17.86								
10	256QAM	50	0	17.97	18.04	17.98								
Turn-up time (sec)														
MFR (dB)														
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.83	22.86	22.84	24	0						
5	QPSK	1	12	22.88	23.00	22.89								
5	QPSK	1	24	22.76	22.95	22.85								
5	QPSK	12	0	22.05	22.06	22.06								
5	QPSK	12	7	22.07	22.14	21.90	23	1						
5	QPSK	12	13	21.90	21.98	21.86								
5	QPSK	25	0	22.03	22.14	22.04								
5	16QAM	1	0	22.24	22.35	22.19								
5	16QAM	1	12	22.18	22.31	22.14	23	1						
5	16QAM	1	24	22.16	22.23	22.03								
5	16QAM	12	0	20.99	21.07	21.01								
5	16QAM	12	7	20.98	21.04	21.03								
5	16QAM	12	13	20.84	20.96	20.84	22	2						
5	16QAM	25	0	20.99	21.10	21.00								
5	64QAM	1	0	21.17	21.15	21.09								
5	64QAM	1	12	21.15	21.11	21.11								
5	64QAM	1	24	20.97	21.11	20.95	22	2						
5	64QAM	12	0	20.05	20.02	19.94								
5	64QAM	12	7	19.93	20.00	19.94								
5	64QAM	12	13	19.84	19.95	19.91								
5	64QAM	25	0	20.08	20.12	19.96	21	3						
5	64QAM	25	0	19.05	19.17	18.99								
5	256QAM	1	49	17.85	17.97	17.89								
5	256QAM	1	12	17.95	18.06	17.99								
5	256QAM	1	24	17.84	18.03	17.87	19	5						
5	256QAM	12	0	17.95	17.98	17.85								
5	256QAM	12	7	17.87	18.03	17.89								
5	256QAM	12	13	17.85	17.95	17.83	19	5						
5	256QAM	25	0	17.96	18.01	17.96								
Turn-up time (sec)														
MFR (dB)														
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.88	22.91	22.89	24	0						
3	QPSK	1	12	22.88	23.00	22.89								
3	QPSK	1	14	22.72	22.94	22.84								
3	QPSK	8	0	22.02	22.13	22.03								
3	QPSK	8	7	22.01	22.02	21.99	23	1						
3	QPSK	15	0	22.08	22.21	22.03								
3	QPSK	15	7	22.03	22.15	22.03								
3	16QAM	1	0	22.23	22.38	22.18								
3	16QAM	1	14	22.20	22.28	22.04	22	2						
3	16QAM	1	14	22.12	22.21	22.07								
3	16QAM	8	0	20.95	21.03	21.02								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	22	2						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	21	3						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	20	5						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	19	5						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	18	5						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	17	5						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	16	5						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	15	5						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	14	5						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	13	5						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83	12	5						
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89	20.96	20.83								
3	16QAM	8	7	20.89										



Band 66 Ant1 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 180072	Power Middle Ch / Freq. 193322	Power High Ch / Freq. 193372	Time-up Intvl (ms)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	23.07	23.09	23.09	24	0						
20	QPSK	1	49	22.84	23.04	22.93								
20	QPSK	1	99	22.83	22.87	22.82								
20	QPSK	50	0	22.10	22.12	22.07								
20	QPSK	50	24	21.93	22.07	22.00	23	1						
20	QPSK	50	50	21.89	22.00	21.90								
20	QPSK	100	0	22.08	22.13	22.11								
20	16QAM	1	0	22.00	22.10	22.04								
20	16QAM	1	49	21.97	22.05	21.94	23	1						
20	16QAM	1	99	21.84	21.86	21.86								
20	16QAM	50	0	21.02	21.07	20.98								
20	16QAM	50	24	20.95	21.02	20.91								
20	16QAM	50	50	20.83	20.85	20.86	22	2						
20	16QAM	100	0	20.93	20.96	20.96								
20	64QAM	1	0	21.20	21.24	21.19								
20	64QAM	1	49	21.03	21.10	21.07								
20	64QAM	1	99	21.02	21.15	21.05	22	2						
20	64QAM	50	0	19.98	20.10	20.08								
20	64QAM	50	24	19.95	20.07	20.01								
20	64QAM	50	50	19.90	20.00	19.93								
20	256QAM	1	0	17.87	17.89	17.88	19	5						
20	256QAM	1	49	17.92	18.04	17.93								
20	256QAM	1	99	17.92	17.87	17.82								
20	256QAM	50	0	17.85	17.88	17.83								
20	256QAM	50	24	17.87	18.01	17.95	19	5						
20	256QAM	50	50	17.80	17.84	17.88								
20	256QAM	100	0	17.84	17.87	17.82								
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.94	23.00	22.88	24	0						
15	QPSK	1	37	22.88	22.96	22.88								
15	QPSK	1	74	22.75	22.84	22.82								
15	QPSK	36	0	21.96	22.04	21.93								
15	QPSK	36	20	21.89	22.00	21.92	23	1						
15	QPSK	36	39	21.75	21.86	21.86								
15	QPSK	75	0	19.83	20.07	20.01								
15	16QAM	1	0	21.95	22.03	21.94								
15	16QAM	1	37	21.88	21.92	21.79	23	1						
15	16QAM	1	74	21.87	21.89	21.75								
15	16QAM	36	0	20.92	20.98	20.89								
15	16QAM	36	20	20.83	20.89	20.80								
15	16QAM	50	0	20.87	20.97	20.78	22	2						
15	16QAM	50	24	20.78	20.87	20.76								
15	64QAM	1	0	21.10	21.13	21.08								
15	64QAM	1	37	21.02	21.04	20.99								
15	64QAM	1	74	20.91	20.92	20.85	21	3						
15	64QAM	36	0	19.86	19.88	19.87								
15	64QAM	36	20	19.81	19.86	19.87								
15	64QAM	36	39	19.81	19.95	19.90								
15	64QAM	75	0	19.83	19.86	19.71	19	5						
15	256QAM	1	0	17.87	17.95	17.85								
15	256QAM	1	37	17.88	17.94	17.89								
15	256QAM	1	74	17.83	17.86	17.77								
15	256QAM	36	0	17.87	17.91	17.85	19	5						
15	256QAM	36	20	17.91	17.97	17.85								
15	256QAM	36	39	17.72	17.88	17.84								
15	256QAM	75	0	17.77	17.88	17.78								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.31	22.32	22.30	24	0						
10	QPSK	1	25	22.85	22.97	22.86								
10	QPSK	1	49	22.74	22.82	22.82								
10	QPSK	1	99	22.07	22.07	22.06								
10	QPSK	25	12	21.90	22.01	21.89	23	1						
10	QPSK	25	25	21.81	21.87	21.83								
10	QPSK	50	0	21.91	22.02	22.02								
10	16QAM	1	0	21.85	21.90	21.89								
10	16QAM	1	25	21.82	22.01	21.83	23	1						
10	16QAM	1	49	21.81	21.88	21.75								
10	16QAM	25	0	20.99	20.97	20.89								
10	16QAM	25	12	20.91	20.88	20.78								
10	16QAM	50	0	20.80	20.86	20.76	22	2						
10	16QAM	50	25	20.80	20.91	20.79								
10	64QAM	1	0	21.12	21.15	21.04								
10	64QAM	1	25	21.01	21.10	20.93								
10	64QAM	1	49	20.98	21.02	20.95	21	3						
10	64QAM	25	0	19.85	20.05	20.03								
10	64QAM	25	12	19.82	20.01	19.81								
10	64QAM	25	25	19.78	19.88	19.83								
10	64QAM	50	0	19.85	19.90	19.75	19	5						
10	256QAM	1	0	17.83	18.04	17.90								
10	256QAM	1	25	17.78	17.90	17.87								
10	256QAM	1	49	17.81	17.97	17.79								
10	256QAM	25	0	17.81	17.89	17.84	19	5						
10	256QAM	25	12	17.84	17.96	17.87								
10	256QAM	25	25	17.88	17.88	17.75								
10	256QAM	50	0	17.77	17.82	17.73								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.74	22.82	22.73	24	0						
5	QPSK	1	12	22.84	22.95	22.89								
5	QPSK	1	24	22.75	22.83	22.82								
5	QPSK	12	0	21.98	22.06	21.87								
5	QPSK	12	7	21.90	22.02	21.92	23	1						
5	QPSK	12	13	21.76	21.92	21.81								
5	QPSK	25	0	21.85	22.06	22.07								
5	16QAM	1	0	21.87	22.05	21.96								
5	16QAM	1	12	21.87	22.05	21.84	23	1						
5	16QAM	1	24	21.85	21.88	21.78								
5	16QAM	12	0	20.96	21.01	20.86								
5	16QAM	12	7	20.90	20.92	20.81								
5	16QAM	12	13	20.80	20.91	20.74	22	2						
5	16QAM	25	0	20.85	20.93	20.76								
5	64QAM	1	0	21.13	21.20	21.13								
5	64QAM	1	12	20.97	21.15	21.04								
5	64QAM	1	24	20.88	20.97	20.84	21	3						
5	64QAM	12	0	19.84	20.04	20.02								
5	64QAM	12	7	19.86	20.07	19.91								
5	64QAM	12	13	19.86	19.94	19.86								
5	64QAM	25	0	19.84	19.82	19.77	19	5						
5	256QAM	1	0	17.83	17.88	17.87								
5	256QAM	1	12	17.82	17.86	17.80								
5	256QAM	1	24	17.82	17.86	17.87								
5	256QAM	12	0	17.88	18.01	17.79	19	5						
5	256QAM	12	7	17.86	17.85	17.91								
5	256QAM	12	13	17.78	17.86	17.91								
5	256QAM	25	0	17.78	17.91	17.77	19	5						
5	256QAM	25	12	17.81	17.93	17.84								
5	256QAM	25	25	17.85	17.85	17.72								
5	256QAM	50	0	17.77	17.82	17.73								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.95	23.05	22.88	24	0						
3	QPSK	1	8	22.80	23.01	22.86								
3	QPSK	1	16	22.75	22.83	22.82								
3	QPSK	8	0	22.04	22.06	21.91								
3	QPSK	8	4	21.87	21.96	21.84	23	1						
3	QPSK	8	12	21.75	21.88	21.78								
3	QPSK	16	0	21.95	22.04	21.94								
3	16QAM	1	0	21.88	21.98	22.07								
3	16QAM	1	8	21.75	21.89	21.78	23	1						
3	16QAM	1	16	21.88	21.83	21.71								
3	16QAM	8	0	20.88	20.93	20.84								
3	16QAM	8	4	20.85	20.88	20.81								
3	16QAM	8	7	20.88	20.83	20.78	22	2						
3	16QAM	16	0	20.94	21.01	20.91								
3	16QAM	16	8	21.10	21.16	21.04								
3	64QAM	1	0	20.92	21.08	21.03								
3	64QAM	1	8	20.88	21.04	20.97	22	2						
3	64QAM	1	16	20.88	21.00	20.95								
3	64QAM	8	0	19.88	20.00	19.95								
3	64QAM	8	4	19.84	19.86	19.89								
3	64QAM	8	7	19.84	19.84	19.79	21	3						
3	64QAM	16	0	19.79	19.84	19.78								
3	64QAM	16	8	17.85	18.05	17.86								
3	64QAM	16	16	17.82	17.82	17.82								
3	64QAM	16	24	17.82	17.82	17.82	19	5						
3	64QAM	32	0	17.82	17.82	17.82								
3	64QAM	32	8	17.82	17.82	17.82								
3	64QAM	32	16	17.82	17.82	17.82								
3	64QAM	32	24	17.82	17.82	17.82	19	5						
3	64QAM	64	0	17.82	17.82	17.82								
3	64QAM	64	8	17.82	17.82	17.82								
3	64QAM	64	16	17.82	17.82	17.82								
3	64QAM	64	24	17.82	17.82	17.82								
3	64QAM	64	32	17.82	17.82	17.82								



Band 38 Ant1 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.15	23.15	23.15	24	0			
20	QPSK	1	48	23.13	23.15	23.10					
20	QPSK	1	96	23.11	23.13	23.05					
20	QPSK	50	0	22.09	22.07	22.06	23	1			
20	QPSK	50	24	22.07	22.07	22.06					
20	QPSK	50	50	22.07	22.07	21.91					
20	16QAM	100	0	22.12	22.12	22.16	23	1			
20	16QAM	100	1	22.09	22.12	22.05					
20	16QAM	1	48	21.98	22.04	21.95					
20	16QAM	50	0	21.04	21.08	20.96	22	2			
20	16QAM	50	24	20.92	20.97	20.95					
20	16QAM	50	50	20.92	20.98	20.88					
20	16QAM	100	0	20.85	20.94	20.90	21	3			
20	16QAM	1	0	20.80	20.87	20.54					
20	16QAM	1	96	20.81	20.85	20.47					
20	16QAM	50	0	20.02	20.02	20.07	21	3			
20	16QAM	50	24	20.02	20.07	20.04					
20	16QAM	50	50	19.99	20.05	19.92					
20	16QAM	100	0	19.95	20.04	20.00	19	5			
20	16QAM	1	0	19.78	19.89	19.71					
20	16QAM	1	96	19.84	19.77	19.68					
20	16QAM	50	0	18.00	18.12	18.06	19	5			
20	16QAM	50	24	18.03	18.07	18.00					
20	16QAM	50	50	17.98	18.00	17.87					
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.08	23.09	23.13	24	0			
15	QPSK	1	37	23.08	23.12	23.06					
15	QPSK	1	74	23.07	23.07	23.08					
15	QPSK	36	0	22.01	22.05	21.96	23	1			
15	QPSK	36	20	21.99	21.98	21.83					
15	QPSK	36	39	21.78	21.87	21.78					
15	QPSK	75	0	22.07	22.14	22.12	23	1			
15	16QAM	1	0	21.96	21.95	21.92					
15	16QAM	1	37	21.94	21.91	21.86					
15	16QAM	1	74	21.90	21.92	21.79	22	2			
15	16QAM	36	0	20.92	20.93	20.93					
15	16QAM	36	20	20.88	20.92	20.75					
15	16QAM	36	39	20.86	20.92	20.75	22	2			
15	16QAM	75	0	20.80	20.84	20.80					
15	16QAM	1	0	20.50	20.54	20.50					
15	16QAM	1	37	20.48	20.55	20.48	21	3			
15	16QAM	14	0	20.45	20.52	20.45					
15	16QAM	36	0	19.95	20.04	19.97					
15	16QAM	36	20	19.96	20.04	19.88	19	5			
15	16QAM	36	39	19.75	19.87	19.75					
15	16QAM	75	0	20.00	20.03	19.93					
15	16QAM	1	37	17.64	17.77	17.75	19	5			
15	16QAM	1	74	17.51	17.72	17.64					
15	16QAM	36	0	17.50	17.58	17.58					
15	16QAM	36	20	17.50	17.57	17.37	19	5			
15	16QAM	36	39	17.49	17.61	17.63					
15	16QAM	75	0	17.50	18.00	18.15					
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.05	23.08	23.10	24	0			
10	QPSK	1	25	23.04	23.08	23.05					
10	QPSK	1	48	22.94	23.01	22.94					
10	QPSK	25	0	22.05	22.08	22.06	23	1			
10	QPSK	25	12	22.03	22.07	21.87					
10	QPSK	25	25	22.04	22.07	22.11					
10	16QAM	1	0	21.96	21.94	21.92	23	1			
10	16QAM	1	25	21.91	21.92	21.92					
10	16QAM	1	48	21.86	21.87	21.82					
10	16QAM	25	0	20.92	20.95	20.92	22	2			
10	16QAM	25	12	20.91	20.90	20.84					
10	16QAM	25	25	20.78	20.84	20.82					
10	16QAM	50	0	20.89	21.04	20.96	22	2			
10	16QAM	1	48	20.49	20.58	20.46					
10	16QAM	1	25	20.41	20.49	20.47					
10	16QAM	1	48	20.43	20.47	20.41	21	3			
10	16QAM	25	0	19.89	20.03	19.88					
10	16QAM	25	12	19.89	19.95	19.82					
10	16QAM	25	25	19.85	19.95	19.82	19	5			
10	16QAM	50	0	20.04	20.03	19.86					
10	16QAM	1	0	17.87	17.75	17.76					
10	16QAM	1	25	17.82	17.75	17.67	19	5			
10	16QAM	25	0	17.86	17.86	17.81					
10	16QAM	25	12	17.89	17.81	17.91					
10	16QAM	25	25	17.83	17.80	17.87	19	5			
10	16QAM	50	0	17.84	18.00	18.00					
10	16QAM	1	0	17.75	17.71	17.54					
10	16QAM	1	25	17.58	17.61	17.58	19	5			
10	16QAM	25	0	17.85	17.82	17.80					
10	16QAM	25	0	17.98	18.04	17.95					

Band 41 Ant1 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.82	22.83	22.83	22.75	22.76	22.83	24	0
20	QPSK	1	48	22.73	22.83	22.89	22.74	22.77	22.87		
20	QPSK	1	96	22.74	22.80	22.73	22.73	22.74	22.77		
20	QPSK	50	0	21.73	21.84	22.04	21.67	21.72	21.82	23	1
20	QPSK	50	24	21.75	21.72	21.85	21.76	21.87	21.91		
20	QPSK	50	50	21.71	21.77	21.88	21.63	21.67	21.77		
20	16QAM	100	0	21.74	21.74	21.74	21.68	21.68	21.68	23	1
20	16QAM	1	48	21.67	21.67	21.84	21.68	21.64	21.74		
20	16QAM	1	96	21.62	21.64	21.65	21.62	21.64	21.64		
20	16QAM	50	0	20.84	20.70	20.77	20.77	20.80	20.80	22	2
20	16QAM	50	24	20.83	20.70	20.82	20.77	20.79	20.85		
20	16QAM	50	50	20.86	20.69	20.80	20.63	20.67	20.76		
20	16QAM	100	0	20.80	20.85	20.81	20.80	20.80	20.80	21	3
20	16QAM	1	0	20.57	20.75	20.83	20.63	20.58	20.72		
20	16QAM	1	96	20.60	20.62	20.74	20.64	20.65	20.65		
20	16QAM	50	0	19.84	19.74	19.85	19.78	19.88	19.88	21	3
20	16QAM	50	24	19.89	19.65	19.75	19.87	19.87	19.87		
20	16QAM	50	50	19.53	19.66	19.70	19.64	19.66	19.66		
20	16QAM	100	0	19.60	19.70	19.68	19.60	19.65	19.65	19	5
20	256QAM	1	0	17.88	17.70	17.80	17.64	17.80	17.80		
20	256QAM	1	96	17.61	17.70	17.74	17.58	17.67	17.70		
20	256QAM	50	0	17.89	17.61	17.69	17.76	17.75	17.75	19	5
20	256QAM	50	24	17.86	17.57	17.65	17.61	17.61	17.61		
20	256QAM	50	50	17.52	17.49	17.59	17.57	17.57	17.57		
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.85	22.88	23.04	22.86	22.89	22.99	24	0
15	QPSK	1	37	22.84	22.87	22.99	22.78	22.78	22.80		
15	QPSK	1	74	22.77	22.77	22.76	22.76	22.76	22.76		
15	QPSK	36	0	21.80	21.79	21.84	21.60	21.61	21.61	23	1
15	QPSK	36	20	21.87	21.69	21.93	21.68	21.73	21.73		
15	QPSK	36	39	21.62	21.70	21.80	21.60	21.60	21.60		
15	QPSK	75	0	21.69	21.83	21.83	21.59	21.63	21.63	23	1
15	16QAM	1	0	21.74	21.68	21.85	21.61	21.69	21.71		
15	16QAM	1	37	21.68	21.66	21.78	21.62	21.63	21.63		
15	16QAM	1	74	21.66	21.60	21.63	21.61	21.57	21.57	22	2
15	16QAM	36	0	20.77	20.85	20.88	20.67	20.75	20.75		
15	16QAM	36	20	20.73	20.80	20.91	20.77	20.68	20.68		
15	16QAM	36	39	20.59	20.75	20.78	20.67	20.61	20.61	22	2
15	16QAM	75	0	20.77	20.75	20.78	20.66	20.66	20.66		
15	16QAM	1	0	20.60	20.74	20.69	20.68	20.59	20.59		
15	16QAM	1	37	20.60	20.71	20.75	20.69	20.64	20.64	21	3
15	16QAM	1	74	20.57	20.69	20.71	20.60	20.60	20.60		
15	16QAM	36	0	19.73	19.70	19.91	19.79	19.84	19.84		
15	16QAM	36	20	19.76	19.67	19.87	19.68	19.72	19.72	21	3
15	16QAM	36	39	19.70	19.75	19.87	19.71	19.76	19.76		
15	16QAM	75	0	19.77	19.77	19.79	19.78	19.79	19.79		
15	256QAM	1	0	17.88	17.70	17.80	17.62	17.83	17.83	19	5
15	256QAM	1	37	17.89	17.78	17.89	17.64	17.69	17.69		
15	256QAM	1	74	17.88	17.63	17.60	17.54	17.67	17.67		
15	256QAM	36	0	17.88	17.63	17.68	17.54	17.68	17.68	19	5
15	256QAM	36	20	17.86	17.66	17.72	17.58	17.67	17.67		
15	256QAM	36	39	17.69	17.50	17.54	17.61	17.67	17.67		
15	256QAM	75	0	17.89	17.62	17.64	17.60	17.64	17.64	19	5
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.82	22.87	22.92	22.81	22.83	22.93	24	0
10	QPSK	1	25	22.81	22.79	22.89	22.73	22.80	22.85		
10	QPSK	1	50	22.74	22.82	22.75	22.74	22.75	22.75		
10	QPSK	25	0	21.76	21.78	21.90	22.00	21.72	21.72	23	1
10	QPSK	25	12	21.60	21.70	21.86	21.78	21.87	21.87		
10	QPSK	25	37	21.62	21.80	21.71	21.68	21.72	21.72		
10	QPSK	50	0	21.79	21.90	21.89	21.84	21.84	21.84	23	1
10	16QAM	1	0	21.69	21.71	21.81	21.65	21.67	21.71		
10	16QAM	1	25	21.67	21.58	21.72	21.68	21.74	21.74		
10	16QAM	1	48	21.47	21.60	21.71	21.51	21.57	21.57	22	2
10	16QAM	25	0	20.72	20.78	20.89	20.69	20.70	20.70		
10	16QAM	25	12	20.65	20.81	20.80	20.70	20.84	20.84		
10	16QAM	25	37	20.61	20.70	20.78	20.70	20.78	20.78	22	2
10	16QAM	50	0	20.76	20.76	20.76	20.68	20.68	20.68		
10	16QAM	1	0	20.60	20.63	20.79	20.55	20.54	20.54		
10	16QAM	1	25	20.60	20.56	20.62	20.60	20.61	20.61	21	3
10	16QAM	25	0	19.78	19.78	19.85	19.69	19.70	19.70		
10	16QAM	25	12	19.72	19.82	19.85	19.66	19.72	19.72		
10	16QAM	25	37	19.59	19.59	19.72	19.61	19.64	19.64	21	3
10	16QAM	50	0	19.75	19.78	19.90	19.87	19.79	19.87		
10	256QAM	1	0	17.70	17.86	17.78	17.68	17.73	17.73		
10	256QAM	1	25	17.79	17.63	17.65	17.58	17.76	17.76	19	5
10	256QAM	1	48	17.68	17.69	17.68	17.63	17.67	17.67		
10	256QAM	25	0	17.75	17.74	17.76	17.69	17.70	17.70		
10	256QAM	25	12	17.54	17.57	17.72	17.66	17.68	17.68	19	5
10	256QAM	25	37	17.56	17.50	17.66	17.61	17.65	17.65		
10	256QAM	50	0	17.82	17.55	17.66	17.66	17.66	17.66		
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.74	22.98	22.99	22.77	22.81	22.81	24	0
5	QPSK	1	12	22.81	22.94	22.95	22.87	22.92	22.92		
5	QPSK	1	24	22.81	22.92	22.92	22.83	22.88	22.88		
5	QPSK	12	0	21.83	21.91	21.91	21.86	21.91	21.91	23	1
5	QPSK	12	7	21.50	21.82	21.85	21.84	21.89	21.89		
5	QPSK	12	14	21.62	21.67	21.78	21.68	21.70	21.70		
5	QPSK	25	0	21.82	21.83	22.00	21.77	21.65	21.65	23	1
5	16QAM	1	0	21.67	21.73	21.83	21.66	21.73	21.73		
5	16QAM	1	12	21.65	21.73	21.73	21.63	21.65	21.65		
5	16QAM	1	24	21.61	21.71	21.65	21.58	21.58	21.58	22	2
5	16QAM	12	7	20.83	20.80	20.75	20.63	20.73	20.73		
5	16QAM	12	14	20.61	20.69	20.75	20.62	20.69	20.69		
5	16QAM	25	0	20.77	20.77	20.78	20.68	20.68	20.68	22	2
5	16QAM	1	0	20.56	20.73	20.68	20.57	20.60	20.60		
5	16QAM	1	12	20.60	20.72	20.68	20.63	20.66	20.66		
5	16QAM	12	7	20.63	20.69	20.69	20.59	20.60	20.60	21	3
5	16QAM	12	14	19.78	19.78	19.81	19.82	19.73	19.73		
5	16QAM	25	0	17.83	19.67	19.69	17.66	19.68	19.68		
5	16QAM	12	13	19.61	19.69	19.80	19.64	19.70	19.70	21	3
5	16QAM	25	0	17.84	19.68	19.62	19.76	19.81	19.81		
5	256QAM	1	0	17.68	17.74	17.74	17.61	17.63	17.63		
5	256QAM	1	12	17.76	17.64	17.78	17.71	17.72	17.72	19	5
5	256QAM	1	24	17.67	17.61	17.73	17.64	17.72	17.72		
5	256QAM	12	7	17.74	17.71	17.71	17.67	17.68	17.68		
5	256QAM	12	14	17.62	17.57	17.69	17.62	17.69	17.69	19	5
5	256QAM	25	0	17.63	17.63	17.63	17.58	17.63	17.63		
5	256QAM	25	0	17.55	17.74	17.74	17.68	17.71	17.71		



Band 41 Ant2 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid-Mid Ch / Freq	Power High Ch / Freq	Power Low-Mid Ch / Freq	Power High-Mid Ch / Freq	Tune-up Int (dBm)	MPE (dB)				
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.43	22.57	22.65	22.65	22.79	24	0				
20	QPSK	1	49	22.65	22.64	22.73	22.69	22.70						
20	QPSK	50	0	22.65	22.65	22.68	22.63	22.65						
20	QPSK	50	0	21.58	21.67	21.67	21.78	21.74						
20	QPSK	50	24	21.79	21.79	21.87	21.81	21.72	23	1				
20	QPSK	100	0	21.68	21.72	21.80	21.74	21.71						
20	QPSK	100	0	21.62	21.61	21.61	21.72	21.68						
20	16QAM	1	0	21.81	21.81	21.82	21.78	21.81						
20	16QAM	50	24	20.79	21.00	21.05	21.00	21.00	22	2				
20	16QAM	50	50	20.68	20.69	20.77	20.69	20.63						
20	16QAM	100	0	20.67	20.68	20.69	20.67	20.62						
20	64QAM	1	49	20.84	20.48	20.88	20.80	20.83						
20	64QAM	1	99	20.78	20.64	20.81	20.78	20.65	22	2				
20	64QAM	50	0	19.87	19.80	19.85	19.85	19.79						
20	64QAM	50	24	19.77	19.75	19.88	19.73	19.75						
20	64QAM	50	50	19.63	19.68	19.84	19.65	19.79						
20	64QAM	100	0	19.80	19.81	19.95	19.88	19.84	19	5				
20	256QAM	1	0	17.74	17.74	17.82	17.74	17.72						
20	256QAM	1	49	17.82	17.89	17.73	17.82	17.89						
20	256QAM	1	99	17.58	17.60	17.89	17.60	17.63						
20	256QAM	50	0	17.66	17.66	17.82	17.66	17.87	19	5				
20	256QAM	50	24	17.89	17.82	17.96	17.87	17.84						
20	256QAM	50	50	17.78	17.81	17.89	17.80	17.78						
20	256QAM	100	0	17.83	17.81	17.89	17.80	17.81						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.53	22.53	22.74	22.63	22.65	24	0				
15	QPSK	1	37	22.50	22.56	22.67	22.61	22.56						
15	QPSK	1	74	22.46	22.53	22.59	22.58	22.52						
15	QPSK	36	0	21.44	21.56	21.63	21.72	21.68						
15	QPSK	36	20	21.69	21.70	21.73	21.70	21.64	23	1				
15	QPSK	75	0	21.66	21.66	21.67	21.69	21.67						
15	QPSK	75	0	21.52	21.51	21.86	21.57	21.70						
15	16QAM	1	0	21.68	21.67	21.81	21.72	21.67						
15	16QAM	1	37	21.69	21.70	21.80	21.66	21.69	23	1				
15	16QAM	1	74	21.63	21.63	21.73	21.63	21.64						
15	16QAM	36	0	20.74	20.81	20.84	20.85	20.84						
15	16QAM	36	20	20.69	20.64	20.72	20.69	20.67						
15	16QAM	36	36	20.59	20.61	20.71	20.54	20.52	22	2				
15	16QAM	75	0	20.77	20.84	20.86	20.75	20.82						
15	64QAM	1	0	20.85	20.43	20.81	20.48	20.85						
15	64QAM	1	37	20.48	20.43	20.90	20.41	20.39						
15	64QAM	1	74	20.31	20.30	20.36	20.27	20.39	22	2				
15	64QAM	36	0	19.75	19.78	19.87	19.72	19.77						
15	64QAM	36	20	19.72	19.69	19.79	19.62	19.62						
15	64QAM	36	36	19.74	19.75	19.84	19.67	19.67						
15	64QAM	75	0	19.70	19.80	19.90	19.65	19.70	21	3				
15	256QAM	1	0	17.86	17.89	17.70	17.82	17.83						
15	256QAM	1	37	17.84	17.82	17.85	17.85	17.85						
15	256QAM	1	74	17.65	17.42	17.56	17.50	17.67						
15	256QAM	36	0	17.86	17.85	17.86	17.89	17.84	19	5				
15	256QAM	36	20	17.84	17.88	17.88	17.82	17.87						
15	256QAM	36	36	17.69	17.74	17.86	17.68	17.62						
15	256QAM	75	0	17.76	17.82	17.80	17.81	17.77						
15	256QAM	75	12	17.79	17.82	17.82	17.81	17.77						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.50	22.42	22.73	22.55	22.72	24	0				
10	QPSK	1	25	22.52	22.50	22.59	22.60	22.51						
10	QPSK	1	49	22.54	22.48	22.63	22.54	22.63						
10	QPSK	25	12	21.46	21.57	21.64	21.72	21.68						
10	QPSK	25	12	21.68	21.65	21.81	21.66	21.68	23	1				
10	QPSK	25	25	21.56	21.63	21.76	21.72	21.60						
10	QPSK	1	0	21.49	21.57	21.65	21.45	21.54						
10	16QAM	1	0	21.78	21.75	21.79	21.70	21.67						
10	16QAM	1	25	21.70	21.75	21.79	21.72	21.67	23	1				
10	16QAM	1	49	21.68	21.62	21.69	21.64	21.69						
10	16QAM	25	0	20.78	20.81	20.92	20.78	20.76						
10	16QAM	25	12	20.76	20.69	20.76	20.73	20.66						
10	16QAM	25	12	20.54	20.54	20.71	20.62	20.66	22	2				
10	16QAM	50	0	20.78	20.76	20.88	20.74	20.88						
10	64QAM	1	0	20.69	20.49	20.81	20.48	20.86						
10	64QAM	1	25	20.42	20.40	20.54	20.43	20.44						
10	64QAM	1	49	20.29	20.30	20.46	20.24	20.34	22	2				
10	64QAM	25	0	19.75	19.81	19.88	19.74	19.82						
10	64QAM	25	12	19.72	19.68	19.81	19.59	19.86						
10	64QAM	25	25	19.74	19.75	19.87	19.76	19.87						
10	64QAM	50	0	19.71	19.88	19.90	19.75	19.79	21	3				
10	256QAM	1	0	17.62	17.68	17.74	17.69	17.68						
10	256QAM	1	25	17.48	17.41	17.60	17.47	17.54						
10	256QAM	1	49	17.48	17.57	17.57	17.53	17.52						
10	256QAM	25	0	17.83	17.85	17.86	17.86	17.88	19	5				
10	256QAM	25	12	17.63	17.75	17.81	17.81	17.78						
10	256QAM	25	25	17.63	17.73	17.75	17.72	17.68						
10	256QAM	50	0	17.73	17.87	17.86	17.86	17.76						
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.50	22.42	22.73	22.55	22.72	24	0				
5	QPSK	1	12	22.52	22.55	22.84	22.50	22.47						
5	QPSK	1	24	22.48	22.49	22.82	22.59	22.55						
5	QPSK	12	0	21.47	21.64	21.86	21.60	21.60						
5	QPSK	12	7	21.69	21.65	21.72	21.74	21.67	23	1				
5	QPSK	12	13	21.56	21.61	21.75	21.65	21.68						
5	QPSK	25	0	21.59	21.56	21.67	21.65	21.67						
5	16QAM	1	0	21.73	21.68	21.87	21.74	21.75						
5	16QAM	1	12	21.74	21.75	21.72	21.64	21.73	23	1				
5	16QAM	1	24	21.59	21.75	21.74	21.59	21.63						
5	16QAM	12	0	20.69	20.75	20.85	20.76	20.85						
5	16QAM	12	7	20.67	20.65	20.76	20.66	20.62						
5	16QAM	12	13	20.54	20.62	20.69	20.62	20.59	22	2				
5	16QAM	25	0	20.78	20.76	20.93	20.76	20.78						
5	64QAM	1	0	20.90	20.42	20.82	20.40	20.47						
5	64QAM	1	12	20.42	20.43	20.47	20.36	20.40						
5	64QAM	1	24	20.27	20.37	20.46	20.27	20.32	22	2				
5	64QAM	12	0	19.74	19.78	19.88	19.62	19.85						
5	64QAM	12	7	19.67	19.62	19.75	19.65	19.65	21	3				
5	64QAM	12	13	19.78	19.83	19.87	19.73	19.73						
5	64QAM	25	0	19.77	19.83	19.87	19.84	19.75						
5	64QAM	25	7	19.67	19.67	19.71	17.60	17.63						
5	256QAM	1	0	17.62	17.68	17.71	17.69	17.68	19	5				
5	256QAM	1	12	17.48	17.41	17.60	17.47	17.54						
5	256QAM	1	24	17.54	17.51	17.57	17.51	17.51						
5	256QAM	1	49	17.56	17.63	17.63	17.60	17.60						
5	256QAM	12	7	17.70	17.78	17.84	17.78	17.78						
5	256QAM	12	13	17.66	17.77	17.78	17.65	17.66						



Band 48_FCC Ant2 Default													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)				
Channel				56500	56600	56700	56800						
Frequency (MHz)				56500	56600	56700	56800						
20	QPSK	1	0	22.75	22.83	22.87	22.73	24	0				
20	QPSK	1	49	22.72	22.68	22.82	22.52						
20	QPSK	1	89	22.65	22.70	22.47	22.61						
20	QPSK	50	0	21.70	21.71	21.63	21.69						
20	QPSK	50	24	21.70	21.68	21.58	21.62	23	1				
20	QPSK	50	50	21.60	21.70	21.51	21.61						
20	QPSK	100	0	21.65	21.74	21.82	21.64						
20	16QAM	1	0	21.77	21.71	21.59	21.66						
20	16QAM	1	49	21.60	21.71	21.51	21.71	23	1				
20	16QAM	1	99	21.77	21.71	21.89	21.66						
20	16QAM	50	0	20.70	20.94	20.66	20.79						
20	16QAM	50	24	20.70	20.77	20.63	20.77						
20	16QAM	50	50	20.85	20.78	20.63	20.77	22	2				
20	64QAM	100	0	20.62	20.65	20.74	20.68						
20	64QAM	1	0	20.95	20.80	20.63	20.57						
20	64QAM	1	49	20.87	20.92	20.83	20.86						
20	64QAM	1	99	20.68	20.73	20.76	20.74	21	3				
20	64QAM	50	0	19.71	19.77	19.65	19.62						
20	64QAM	50	24	19.84	19.93	19.87	19.62						
20	64QAM	50	50	19.85	19.89	19.74	19.65						
20	256QAM	100	0	19.76	19.83	19.71	19.62	19	5				
20	256QAM	1	0	17.72	17.74	17.87	17.82						
20	256QAM	1	49	17.86	17.93	17.96	17.82						
20	256QAM	1	99	17.79	17.81	17.98	17.71						
20	256QAM	50	0	17.82	17.86	17.87	17.67	19	5				
20	256QAM	50	24	17.89	17.84	17.81	17.70						
20	256QAM	50	50	17.87	17.85	17.78	17.65						
20	256QAM	100	0	17.66	17.63	17.67	17.61						
Channel				56515	56620	56700	56800						
Frequency (MHz)				56515	56620	56700	56800						
15	QPSK	1	0	22.75	22.68	22.53	22.58	24	0				
15	QPSK	1	37	22.50	22.69	22.89	22.53						
15	QPSK	1	74	22.62	22.60	22.29	22.84						
15	QPSK	86	0	21.70	21.49	21.58	21.69						
15	QPSK	86	20	21.67	21.69	21.40	21.40	23	1				
15	QPSK	86	39	21.67	21.68	21.35	21.58						
15	QPSK	75	0	21.68	21.70	21.48	21.56						
15	16QAM	1	0	21.72	21.51	21.59	21.59						
15	16QAM	1	37	21.40	21.62	21.35	21.70	23	1				
15	16QAM	1	74	21.74	21.50	21.50	21.69						
15	16QAM	58	0	20.58	20.88	20.53	20.76						
15	16QAM	86	39	20.58	20.69	20.58	20.68						
15	16QAM	86	59	20.82	20.57	20.51	20.69	22	2				
15	16QAM	75	0	20.54	20.68	20.70	20.57						
15	64QAM	1	0	20.75	20.69	20.45	20.56						
15	64QAM	1	37	20.80	20.50	20.46	20.74						
15	64QAM	1	74	20.87	20.52	20.73	20.66	21	3				
15	64QAM	86	0	19.81	19.81	19.55	19.69						
15	64QAM	86	20	19.77	19.75	19.87	19.42						
15	64QAM	86	39	19.76	19.60	19.75	19.66						
15	256QAM	1	0	19.07	19.82	19.50	19.57	19	5				
15	256QAM	1	0	17.70	17.85	17.65	17.43						
15	256QAM	1	37	17.68	17.72	17.48	17.60						
15	256QAM	1	74	17.60	17.68	17.39	17.66						
15	256QAM	86	0	17.68	17.71	17.47	17.63	19	5				
15	256QAM	86	20	17.68	17.63	17.55	17.63						
15	256QAM	86	39	17.54	17.84	17.71	17.52						
15	256QAM	75	0	17.62	17.89	17.94	17.71						
Channel				56520	56615	56700	56800						
Frequency (MHz)				56520	56615	56700	56800						
10	QPSK	1	0	22.67	22.61	22.64	22.58	24	0				
10	QPSK	1	25	22.65	22.51	22.55	22.42						
10	QPSK	1	49	22.44	22.62	22.37	22.56						
10	QPSK	25	0	21.70	21.67	21.67	21.60						
10	QPSK	25	12	21.66	21.60	21.53	21.49	23	1				
10	QPSK	25	25	21.67	21.71	21.38	21.50						
10	QPSK	86	0	21.68	21.53	21.42	21.51						
10	16QAM	1	0	21.95	21.50	21.81	21.61						
10	16QAM	1	25	21.46	21.68	21.46	21.80	23	1				
10	16QAM	1	49	21.64	21.73	21.60	21.64						
10	16QAM	25	0	20.62	20.74	20.50	20.58						
10	16QAM	25	12	20.66	20.77	20.48	20.76						
10	16QAM	86	0	20.75	20.80	20.56	20.71	22	2				
10	16QAM	50	0	20.56	20.62	20.76	20.57						
10	64QAM	1	0	20.60	20.61	20.63	20.68						
10	64QAM	1	25	20.83	20.93	20.60	20.64						
10	64QAM	1	49	20.66	20.73	20.66	20.66	21	3				
10	64QAM	25	0	19.70	19.62	19.45	19.53						
10	64QAM	25	12	19.81	19.73	19.83	19.47						
10	64QAM	25	25	19.76	19.81	19.68	19.43						
10	256QAM	86	0	19.75	19.69	19.61	19.61	19	5				
10	256QAM	1	0	17.58	17.66	17.60	17.60						
10	256QAM	1	25	17.84	17.88	17.41	17.62						
10	256QAM	1	49	17.56	17.71	17.39	17.59						
10	256QAM	25	0	17.71	17.70	17.55	17.50	19	5				
10	256QAM	25	12	17.66	17.71	17.52	17.52						
10	256QAM	25	25	17.64	17.80	17.68	17.53						
10	256QAM	50	0	17.49	17.94	17.49	17.60						
Channel				56525	56610	56700	56800						
Frequency (MHz)				56525	56610	56700	56800						
5	QPSK	1	0	22.64	22.62	22.68	22.55	24	0				
5	QPSK	1	12	22.60	22.67	22.64	22.51						
5	QPSK	1	24	22.54	22.60	22.39	22.59						
5	QPSK	12	0	21.83	21.71	21.60	21.61						
5	QPSK	12	7	21.49	21.65	21.48	21.57	23	1				
5	QPSK	12	19	21.67	21.52	21.45	21.63						
5	QPSK	25	0	21.69	21.53	21.56	21.52						
5	16QAM	1	0	21.75	21.50	21.53	21.49						
5	16QAM	1	12	21.41	21.65	21.37	21.66	23	1				
5	16QAM	1	24	21.64	21.69	21.64	21.53						
5	16QAM	12	0	20.70	20.91	20.68	20.68						
5	16QAM	12	7	20.57	20.66	20.61	20.66						
5	16QAM	12	19	20.77	20.68	20.63	20.58	22	2				
5	16QAM	25	0	20.60	20.78	20.87	20.68						
5	64QAM	1	0	20.88	20.61	20.49	20.31	21	3				
5	64QAM	1	12	20.85	20.89	20.47	20.70						
5	64QAM	1	24	20.59	20.90	20.56	20.82						
5	64QAM	12	0	20.60	20.81	20.84	20.83						
5	64QAM	25	0	19.62	19.78	19.55	19.56	19	5				
5	64QAM	25	12	19.68	19.68	19.84	19.43						
5	256QAM	1	0	17.62	17.63	17.68	17.68						
5	256QAM	1	12	17.71	17.72	17.40	17.72						
5	256QAM	1	24	17.64	17.75	17.42	17.72	19	5				
5	256QAM	1	49	17.79	17.87	17.48	17.64						
5	256QAM	1	99	17.67	17.72	17.82	17.58						
5	256QAM	12	0	17.82	17.91	17.72	17.63						



Band 48_FCC Ant4 Default										
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-Mid Ch / Freq	Power High-Mid Ch / Freq	Power High Ch / Freq	Tune-up band (dBm)	MPR (dB)	
Channel				56340	56340	56190	56640	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56340	56340	56190	56640			
20	QPSK	1	0	23.12	23.24	23.16	23.08	24	0	
20	QPSK	1	48	23.03	23.12	23.08	22.97			
20	QPSK	8	0	23.00	23.07	22.98	23.03			
20	QPSK	50	0	22.21	22.31	22.24	22.23			
20	QPSK	50	24	22.15	22.21	22.08	22.09	23	1	
20	QPSK	50	60	22.00	22.14	22.03	22.08			
20	QPSK	100	0	22.18	22.28	22.26	22.19			
20	16QAM	1	0	22.34	22.39	22.33	22.36			
20	16QAM	1	48	22.29	22.33	22.18	22.20	23	1	
20	16QAM	1	96	22.17	22.29	22.28	22.26			
20	16QAM	50	0	21.25	21.38	21.27	21.24			
20	16QAM	50	24	21.17	21.22	21.18	21.10			
20	16QAM	50	50	21.04	21.16	21.10	21.10	22	2	
20	16QAM	100	0	21.25	21.28	21.24	21.20			
20	64QAM	1	0	21.17	21.23	21.15	21.15			
20	64QAM	1	48	21.12	21.15	21.05	21.08			
20	64QAM	1	96	20.94	21.08	20.98	21.07	22	2	
20	64QAM	50	0	20.38	20.42	20.30	20.29			
20	64QAM	50	24	20.15	20.29	20.19	20.24			
20	64QAM	50	50	20.23	20.35	20.21	20.24			
20	64QAM	100	0	20.35	20.29	20.14	20.19	21	3	
20	256QAM	1	0	18.10	18.08	17.84	18.03			
20	256QAM	1	48	17.86	18.11	17.84	17.87			
20	256QAM	1	96	17.77	17.93	17.87	17.87			
20	256QAM	25	0	17.81	18.01	17.87	17.87	19	5	
20	256QAM	50	24	17.85	18.13	17.87	18.01			
20	256QAM	50	50	17.87	17.99	17.83	17.75			
20	256QAM	100	0	17.80	18.06	18.03	18.03			
Channel				56315	56300	56160	56665	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56315	56300	56160	56665			
15	QPSK	1	0	23.01	23.16	23.10	23.04	24	0	
15	QPSK	1	37	22.83	23.04	23.03	22.89			
15	QPSK	1	74	22.97	22.94	22.91	22.91			
15	QPSK	36	0	22.11	22.24	22.18	22.18			
15	QPSK	36	20	22.00	22.12	21.97	21.96	23	1	
15	QPSK	36	36	22.00	22.08	21.89	21.94			
15	QPSK	75	0	22.13	22.16	22.11	22.12			
15	16QAM	1	0	22.23	22.28	22.19	22.28			
15	16QAM	1	37	22.24	22.29	22.04	22.18	23	1	
15	16QAM	1	74	22.07	22.19	22.17	22.20			
15	16QAM	36	0	21.14	21.28	21.15	21.18			
15	16QAM	36	20	21.13	21.13	21.05	21.00			
15	16QAM	36	36	20.91	21.09	20.96	21.06	22	2	
15	16QAM	75	0	21.21	21.25	21.18	21.12			
15	64QAM	1	0	21.07	21.18	21.11	21.04			
15	64QAM	1	37	21.06	21.09	20.94	20.99			
15	64QAM	1	74	20.88	20.98	20.86	20.87	22	2	
15	64QAM	36	0	20.24	20.36	20.26	20.16			
15	64QAM	36	20	20.09	20.17	20.08	20.21			
15	64QAM	36	36	20.14	20.30	20.17	20.14			
15	64QAM	75	0	20.17	20.15	20.05	20.11	21	3	
15	256QAM	1	0	18.15	18.08	17.80	18.10			
15	256QAM	1	37	17.80	18.05	17.89	17.87			
15	256QAM	1	74	17.93	17.89	17.78	17.90			
15	256QAM	36	0	17.94	18.10	17.89	18.02	19	5	
15	256QAM	36	20	17.87	18.07	18.01	18.03			
15	256QAM	36	36	17.89	18.02	17.87	17.84			
15	256QAM	75	0	18.04	18.01	18.04	17.92			
Channel				56295	56318	56165	56690	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56295	56318	56165	56690			
10	QPSK	1	0	23.07	23.11	23.08	23.03	24	0	
10	QPSK	1	25	22.92	23.01	22.96	22.86			
10	QPSK	1	48	22.85	23.04	22.81	22.88			
10	QPSK	25	0	22.00	22.18	22.17	22.16			
10	QPSK	25	12	22.05	22.07	22.03	22.05	23	1	
10	QPSK	25	25	22.03	22.00	21.94	21.93			
10	QPSK	50	0	22.05	22.17	22.22	22.09			
10	16QAM	1	0	22.22	22.36	22.23	22.28			
10	16QAM	1	25	22.21	22.28	22.10	22.23	23	1	
10	16QAM	1	48	22.11	22.16	22.22	22.11			
10	16QAM	25	0	21.11	21.32	21.18	21.09			
10	16QAM	25	12	21.11	21.13	21.12	20.98			
10	16QAM	25	25	20.90	21.10	20.88	21.00	22	2	
10	16QAM	50	0	21.20	21.15	21.10	21.14			
10	64QAM	1	0	21.02	21.14	21.10	21.12			
10	64QAM	1	25	21.05	21.07	20.91	21.03			
10	64QAM	1	48	20.81	20.98	20.88	20.92	22	2	
10	64QAM	25	0	20.33	20.27	20.36	20.21			
10	64QAM	25	12	20.03	20.17	20.10	20.15			
10	64QAM	25	25	20.12	20.27	20.05	20.18			
10	64QAM	50	0	20.12	20.21	20.09	20.12	21	3	
10	256QAM	1	0	18.14	18.00	17.80	17.85			
10	256QAM	1	25	17.84	18.05	17.86	18.01			
10	256QAM	1	48	17.80	17.87	17.84	17.75			
10	256QAM	25	0	17.80	18.14	18.12	18.04	19	5	
10	256QAM	25	12	17.84	18.10	17.88	18.08			
10	256QAM	25	25	17.83	18.03	17.90	17.95			
10	256QAM	50	0	18.11	18.00	17.83	17.89			
Channel				56295	56318	56170	56675	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56295	56318	56170	56675			
5	QPSK	1	0	23.08	23.17	23.05	23.02	24	0	
5	QPSK	1	12	22.88	23.01	22.85	22.92			
5	QPSK	1	24	22.86	22.97	22.82	22.98			
5	QPSK	12	0	22.18	22.23	22.18	22.13			
5	QPSK	12	7	22.08	22.15	22.04	22.01	23	1	
5	QPSK	12	13	21.88	22.01	21.93	21.99			
5	QPSK	25	0	22.05	22.14	22.14	22.15			
5	16QAM	1	0	22.29	22.26	22.24	22.22			
5	16QAM	1	12	22.16	22.29	22.05	22.22	23	1	
5	16QAM	1	24	22.02	22.22	22.18	22.14			
5	16QAM	12	0	21.18	21.23	21.22	21.16			
5	16QAM	12	7	21.13	21.13	21.03	20.99			
5	16QAM	12	13	21.00	21.07	21.05	21.03	22	2	
5	16QAM	25	0	21.14	21.19	21.18	21.08			
5	64QAM	1	0	21.08	21.12	21.05	21.04			
5	64QAM	1	12	21.04	21.09	21.00	21.03			
5	64QAM	1	24	20.88	21.04	20.92	20.83	22	2	
5	64QAM	12	0	20.26	20.34	20.26	20.20			
5	64QAM	12	7	20.00	20.16	20.14	20.14			
5	64QAM	12	13	20.11	20.23	20.11	20.09			
5	256QAM	1	0	18.21	18.09	17.83	18.05	19	5	
5	256QAM	1	12	17.90	18.00	17.81	18.04			
5	256QAM	1	24	17.83	18.09	17.82	17.84			
5	256QAM	12	0	17.83	18.10	17.64	17.82			
5	256QAM	12	7	18.03	17.90	18.02	17.82	19	5	
5	256QAM	12	13	17.88	17.97	17.91	17.89			



Band 48_FCC Ant5 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power High Ch / Freq	Tune-up band (dBm)	MPR (dB)	
Channel				56340	56360	56380	56400	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56340	56360	56380	56400			
20	QPSK	1	0	22.74	22.59	22.76	22.59	24	0	
20	QPSK	1	49	22.57	22.79	22.57	22.39			
20	QPSK	8	89	22.70	22.83	22.61	22.51			
20	QPSK	50	5	21.87	21.79	21.76	21.57			
20	QPSK	50	24	21.70	21.71	21.76	21.87	23	1	
20	QPSK	50	80	21.75	21.70	21.70	21.68			
20	QPSK	100	0	21.65	21.71	21.70	21.50			
20	16QAM	1	5	21.84	21.87	21.87	21.52			
20	16QAM	1	49	21.88	21.97	21.80	21.57	23	1	
20	16QAM	1	99	21.88	21.91	21.72	21.58			
20	16QAM	25	0	20.74	20.86	20.76	20.71			
20	16QAM	50	24	20.84	21.01	20.84	20.58			
20	16QAM	50	50	20.69	20.84	20.78	20.69	22	2	
20	16QAM	100	0	20.65	20.84	20.67	20.57			
20	64QAM	1	5	20.75	20.59	20.58	20.55			
20	64QAM	1	49	20.75	20.92	20.75	20.61			
20	64QAM	1	99	20.74	20.93	20.84	20.57	22	2	
20	64QAM	25	0	19.72	19.93	19.70	19.70			
20	64QAM	50	24	19.86	19.90	19.80	19.57			
20	64QAM	50	80	19.83	19.84	19.80	19.65			
20	64QAM	100	0	19.71	19.83	19.81	19.55	21	3	
20	256QAM	1	5	17.72	17.92	17.89	17.51			
20	256QAM	1	49	17.81	17.78	17.89	17.85			
20	256QAM	1	99	17.84	17.88	17.78	17.70			
20	256QAM	25	0	17.72	18.00	17.69	17.52	19	5	
20	256QAM	50	24	17.78	17.88	17.85	17.53			
20	256QAM	50	50	17.87	18.00	17.75	17.60			
20	256QAM	100	0	17.77	17.95	17.89	17.58			
Channel				56315	56330	56350	56365	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56315	56330	56350	56365			
15	QPSK	1	0	22.70	22.52	22.60	22.52	24	0	
15	QPSK	1	37	22.56	22.74	22.37	22.38			
15	QPSK	1	74	22.80	22.71	22.60	22.40			
15	QPSK	36	5	21.49	21.66	21.65	21.54			
15	QPSK	36	20	21.89	21.59	21.51	21.66	23	1	
15	QPSK	36	36	21.54	21.71	21.68	21.62			
15	QPSK	75	0	21.87	21.52	21.57	21.37			
15	16QAM	1	5	21.86	21.73	21.84	21.66			
15	16QAM	1	37	21.73	21.88	21.82	21.48	23	1	
15	16QAM	1	74	21.49	21.83	21.72	21.45			
15	16QAM	36	5	20.84	20.84	20.54	20.70			
15	16QAM	36	20	20.81	21.00	20.75	20.57			
15	16QAM	36	36	20.54	20.90	20.68	20.56	22	2	
15	16QAM	75	0	20.48	20.70	20.52	20.68			
15	64QAM	1	5	20.69	20.83	20.83	20.55			
15	64QAM	1	37	20.57	20.77	20.53	20.60			
15	64QAM	1	74	20.63	20.86	20.84	20.89	21	3	
15	64QAM	36	5	19.58	19.78	19.55	19.67			
15	64QAM	36	20	19.58	19.82	19.88	19.55			
15	64QAM	36	36	19.46	19.84	19.80	19.53			
15	64QAM	75	0	19.57	19.72	19.55	19.54	19	5	
15	256QAM	1	5	17.86	17.83	17.62	17.51			
15	256QAM	1	37	17.72	17.56	17.70	17.54			
15	256QAM	1	74	17.43	17.80	17.77	17.58			
15	256QAM	36	5	17.85	17.80	17.78	17.61	19	5	
15	256QAM	36	20	17.82	17.70	17.64	17.67			
15	256QAM	36	36	17.57	18.00	17.69	17.52			
15	256QAM	75	0	17.74	17.78	17.57	17.59			
Channel				56290	56305	56325	56340	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56290	56305	56325	56340			
10	QPSK	1	0	22.74	22.84	22.84	22.40	24	0	
10	QPSK	1	25	22.52	22.78	22.42	22.83			
10	QPSK	1	49	22.88	22.83	22.45	22.52			
10	QPSK	25	0	21.47	21.83	21.56	21.48			
10	QPSK	25	12	21.69	21.52	21.60	21.56	23	1	
10	QPSK	25	25	21.56	21.68	21.63	21.71			
10	QPSK	50	5	21.50	21.63	21.48	21.38			
10	16QAM	1	5	21.74	21.87	21.82	21.38			
10	16QAM	1	25	21.72	21.88	21.68	21.58	23	1	
10	16QAM	1	49	21.54	21.70	21.57	21.48			
10	16QAM	25	5	20.86	20.80	20.68	20.71			
10	16QAM	25	12	20.86	20.81	20.69	20.51			
10	16QAM	25	25	20.70	20.80	20.74	20.55	22	2	
10	16QAM	50	5	20.51	20.83	20.68	20.52			
10	64QAM	1	5	20.71	20.80	20.71	20.58			
10	64QAM	1	25	20.58	20.84	20.70	20.58			
10	64QAM	1	49	20.73	20.75	20.72	20.56	22	2	
10	64QAM	25	5	19.50	19.83	19.53	19.67			
10	64QAM	25	12	19.50	19.87	19.89	19.56			
10	64QAM	25	25	19.56	19.78	19.84	19.57			
10	64QAM	50	5	19.54	19.83	19.73	19.38	21	3	
10	256QAM	1	5	17.73	17.92	17.59	17.58			
10	256QAM	1	25	17.77	17.84	17.62	17.44			
10	256QAM	1	49	17.49	17.78	17.78	17.64			
10	256QAM	25	5	17.80	17.88	17.83	17.48	19	5	
10	256QAM	25	12	17.85	17.74	17.72	17.48			
10	256QAM	25	25	17.50	17.89	17.54	17.51			
10	256QAM	50	5	17.78	17.97	17.67	17.69			
Channel				56295	56310	56330	56345	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56295	56310	56330	56345			
5	QPSK	1	0	22.82	22.87	22.85	22.37	24	0	
5	QPSK	1	12	22.41	22.75	22.45	22.30			
5	QPSK	1	24	22.50	22.88	22.59	22.42			
5	QPSK	12	0	21.84	21.78	21.69	21.42			
5	QPSK	12	7	21.54	21.59	21.69	21.47	23	1	
5	QPSK	12	13	21.73	21.69	21.58	21.59			
5	QPSK	25	5	21.82	21.84	21.68	21.59			
5	16QAM	1	5	21.84	21.81	21.82	21.47			
5	16QAM	1	12	21.78	21.78	21.78	21.53	23	1	
5	16QAM	1	24	21.80	21.70	21.52	21.41			
5	16QAM	12	5	20.52	20.84	20.69	20.50			
5	16QAM	12	7	20.73	20.84	20.67	20.46			
5	64QAM	1	12	20.84	20.84	20.68	20.53	22	2	
5	64QAM	1	0	20.50	20.81	20.48	20.42			
5	64QAM	1	5	20.69	20.89	20.76	20.60			
5	64QAM	1	12	20.84	20.84	20.68	20.53			
5	64QAM	1	24	20.53	20.84	20.61	20.46	21	3	
5	64QAM	12	0	19.59	19.88	19.70	19.71			
5	64QAM	12	7	19.44	19.72	19.82	19.52			
5	64QAM	12	13	19.59	19.86	19.88	19.68			
5	256QAM	1	5	17.80	17.78	17.82	17.52	19	5	
5	256QAM	1	12	17.85	17.69	17.73	17.57			
5	256QAM	1	24	17.80	17.75	17.78	17.59			
5	256QAM	12	5	17.86	17.99	17.70	17.60			

Band 41 Ant6 Default													
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Hgh Ch / Freq	Power High Hgh Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel													
Frequency (MHz)				39870	40188	40600	41006	41490	41924				
20	QPSK	1	0	22.52	22.47	22.57	22.53	22.46	22.43	24	0		
20	QPSK	1	40	22.54	22.37	22.53	22.54	22.36	22.38				
20	QPSK	1	80	22.48	22.47	22.60	22.46	22.48	22.48				
20	QPSK	50	0	21.48	21.38	21.55	21.52	21.44	21.44				
20	QPSK	50	24	21.32	21.34	21.42	21.38	21.33	21.33				
20	QPSK	50	48	21.55	21.37	21.44	21.46	21.44	21.44	23	1		
20	QPSK	100	0	21.23	21.29	21.52	21.49	21.39	21.39				
20	16QAM	1	0	21.37	21.47	21.50	21.44	21.46	21.46				
20	16QAM	1	40	21.30	21.50	21.44	21.41	21.41	21.39				
20	16QAM	1	80	21.31	21.35	21.40	21.30	21.39	21.39				
20	16QAM	50	0	20.50	20.43	20.56	20.51	20.50	20.50	22	2		
20	16QAM	50	24	20.57	20.58	20.42	20.31	20.34	20.34				
20	16QAM	50	50	20.20	20.30	20.36	20.22	20.20	20.20				
20	16QAM	100	0	20.40	20.49	20.54	20.42	20.42	20.42				
20	16QAM	100	1	20.47	20.32	20.32	20.41	20.42	20.42				
20	16QAM	1	40	20.25	20.19	20.30	20.26	20.23	20.23	22	2		
20	16QAM	1	80	20.35	20.32	20.26	20.20	20.21	20.21				
20	16QAM	50	0	19.44	19.45	19.55	19.47	19.42	19.42				
20	16QAM	50	24	19.29	19.33	19.42	19.36	19.29	19.29				
20	16QAM	50	50	19.35	19.35	19.48	19.42	19.35	19.35				
20	16QAM	100	0	19.40	19.41	19.54	19.48	19.49	19.49	21	3		
20	256QAM	1	0	17.42	17.40	17.53	17.43	17.50	17.50				
20	256QAM	1	40	17.34	17.39	17.43	17.36	17.35	17.35				
20	256QAM	1	80	17.36	17.32	17.40	17.29	17.37	17.37				
20	256QAM	50	0	17.45	17.57	17.64	17.54	17.55	17.55				
20	256QAM	50	24	17.08	17.57	17.64	17.54	17.55	17.55	19	5		
20	256QAM	50	50	17.52	17.48	17.57	17.53	17.44	17.44				
20	256QAM	100	0	17.58	17.68	17.76	17.59	17.60	17.60				
Channel													
Frequency (MHz)				39875	40173	40600	41006	41515	41915	Turn-up limit (dBm)	MPR (dB)		
18	QPSK	1	0	22.52	22.47	22.57	22.47	22.43	22.43	24	0		
18	QPSK	1	37	22.48	22.24	22.46	22.46	22.21	22.21				
18	QPSK	1	74	22.42	22.38	22.52	22.32	22.34	22.34				
18	QPSK	1	8	21.38	21.38	21.51	21.40	21.32	21.32				
18	QPSK	36	20	21.24	21.26	21.32	21.26	21.23	21.23				
18	QPSK	36	56	21.25	21.21	21.41	21.30	21.27	21.27	23	1		
18	QPSK	75	0	21.09	21.10	21.40	21.45	21.34	21.34				
18	16QAM	1	0	21.33	21.38	21.43	21.34	21.37	21.37				
18	16QAM	1	40	21.15	21.34	21.32	21.35	21.29	21.29				
18	16QAM	1	74	21.17	21.27	21.29	21.15	21.15	21.15				
18	16QAM	36	0	20.43	20.36	20.51	20.48	20.37	20.37	22	2		
18	16QAM	36	36	20.45	20.37	20.31	20.24	20.23	20.23				
18	16QAM	36	66	20.17	20.16	20.27	20.12	20.22	20.22				
18	16QAM	75	0	20.43	20.43	20.41	20.31	20.37	20.37				
18	16QAM	1	0	20.35	20.34	20.38	20.27	20.30	20.30				
18	16QAM	1	37	20.15	20.11	20.19	20.16	20.12	20.12	22	2		
18	16QAM	1	74	20.15	20.19	20.13	20.17	20.06	20.06				
18	16QAM	36	0	19.40	19.35	19.49	19.41	19.35	19.35				
18	16QAM	36	36	19.24	19.25	19.35	19.24	19.15	19.15				
18	16QAM	36	66	19.45	19.39	19.42	19.35	19.27	19.27				
18	16QAM	75	0	19.25	19.24	19.49	19.42	19.32	19.32	19	5		
18	256QAM	1	0	17.37	17.34	17.44	17.29	17.39	17.39				
18	256QAM	1	37	17.24	17.25	17.53	17.21	17.20	17.20				
18	256QAM	1	74	17.22	17.26	17.30	17.16	17.25	17.25				
18	256QAM	36	0	17.45	17.46	17.51	17.52	17.62	17.62				
18	256QAM	36	36	17.45	17.43	17.50	17.39	17.48	17.48	19	5		
18	256QAM	36	66	17.49	17.53	17.47	17.41	17.37	17.37				
18	256QAM	75	0	17.43	17.47	17.58	17.48	17.50	17.50				
Channel													
Frequency (MHz)				39880	40140	40600	41006	41560	41960	Turn-up limit (dBm)	MPR (dB)		
18	QPSK	1	0	22.44	22.36	22.44	22.44	22.49	22.49	24.00	0		
18	QPSK	1	25	22.40	22.30	22.43	22.49	22.29	22.29				
18	QPSK	1	49	22.41	22.40	22.58	22.38	22.33	22.33				
18	QPSK	25	0	21.43	21.34	21.48	21.46	21.46	21.46				
18	QPSK	25	12	21.27	21.24	21.35	21.20	21.19	21.19				
18	QPSK	25	25	21.22	21.14	21.36	21.43	21.32	21.32	23	1		
18	QPSK	50	0	21.10	21.26	21.45	21.39	21.26	21.26				
18	16QAM	1	0	21.33	21.32	21.38	21.39	21.33	21.33				
18	16QAM	1	25	21.17	21.25	21.37	21.37	21.31	21.31				
18	16QAM	1	49	21.27	21.31	21.28	21.26	21.27	21.27				
18	16QAM	25	0	20.43	20.34	20.45	20.47	20.46	20.46	22	2		
18	16QAM	25	12	20.16	20.23	20.35	20.19	20.28	20.28				
18	16QAM	25	25	20.15	20.17	20.25	20.07	20.13	20.13				
18	16QAM	50	0	20.43	20.42	20.45	20.35	20.36	20.36				
18	16QAM	50	12	20.43	20.27	20.48	20.36	20.29	20.29				
18	16QAM	1	25	20.19	20.05	20.16	20.19	20.10	20.10	22	2		
18	16QAM	1	49	20.15	20.07	20.21	20.08	20.17	20.17				
18	16QAM	25	0	19.30	19.31	19.41	19.36	19.27	19.27				
18	16QAM	25	12	19.16	19.27	19.32	19.29	19.15	19.15				
18	16QAM	25	25	19.21	19.26	19.42	19.31	19.22	19.22				
18	16QAM	50	0	19.27	19.31	19.44	19.35	19.30	19.30	21	3		
18	256QAM	1	0	17.32	17.36	17.46	17.31	17.39	17.39				
18	256QAM	1	25	17.24	17.26	17.36	17.25	17.24	17.24				
18	256QAM	1	49	17.24	17.28	17.30	17.19	17.23	17.23				
18	256QAM	25	0	17.51	17.43	17.58	17.51	17.59	17.59				
18	256QAM	25	0	17.47	17.50	17.58	17.48	17.42	17.42	19	5		
18	256QAM	25	25	17.40	17.31	17.44	17.38	17.45	17.45				
18	256QAM	50	0	17.50	17.52	17.64	17.54	17.59	17.59				
Channel													
Frequency (MHz)				39885	40140	40600	41006	41560	41960	Turn-up limit (dBm)	MPR (dB)		
18	QPSK	1	0	22.44	22.36	22.44	22.44	22.49	22.49	24.00	0		
18	QPSK	1	12	22.40	22.34	22.49	22.41	22.24	22.24				
18	QPSK	1	24	22.38	22.32	22.49	22.38	22.22	22.22				
18	QPSK	1	48	22.41	22.40	22.58	22.38	22.33	22.33				
18	QPSK	12	0	21.39	21.25	21.41	21.44	21.37	21.37				
18	QPSK	12	7	21.16	21.27	21.33	21.25	21.19	21.19	23	1		
18	QPSK	13	0	21.30	21.22	21.33	21.25	21.30	21.30				
18	QPSK	25	0	21.15	21.17	21.40	21.39	21.27	21.27				
18	QPSK	1	0	21.33	21.37	21.41	21.39	21.31	21.31				
18	QPSK	1	13	21.33	21.32	21.39	21.38	21.31	21.31				
18	16QAM	1	24	21.27	21.21	21.29	21.20	21.17	21.17	23	1		
18	16QAM	1	48	21.38	21.37	21.40	21.39	21.34	21.34				
18	16QAM	12	7	20.30	20.23	20.33	20.24	20.25	20.25				
18	16QAM	12	13	20.19	20.18	20.26	20.18	20.13	20.13				
18	16QAM	25	0	20.44	20.40	20.43	20.35	20.43	20.43				
18	16QAM	1	12	20.17	20.10	20.17	20.22	20.18	20.18	22	2		
18	16QAM	1	24	20.13	20.14	20.17	20.14	20.13	20.13				
18	16QAM	12	0	19.34	19.41	19.52	19.38	19.35	19.35				
18	16QAM	12	7	19.16	19.28	19.33	19.33	19.25	19.25				
18	16QAM	25	0	19.24	19.21	19.44	19.34	19.31	19.31				
18	16QAM	25	12	19.13	19.13	19.44	19.34	19.21	19.21	21	3		
18	16QAM	25	24	19.36	19.30	19.47	19.37	19.31	19.31				
18	256QAM	1	0	17.33	17.36	17.46	17.31	17.39	17.39				
18	256QAM	1	12	17.24	17.28	17.40	17.31	17.26	17.26				
18	256QAM	1	24	17.23	17.23	17.30	17.25	17.24	17.24				
18	256QAM	12	0	17.49	17.48	17.54	17.48	17.52	17.52	19	5		
18	256QAM	12	7	17.44	17.48	17.50	17.48	17.48	17.48				
18	256QAM	12	13	17.37	17.31	17.47	17.46	17.38	17.38				
18	256QAM	25	0	17.48	17.48	17.54	17.49	17.49	17.49			</	



Band 48_FCC Ant7 Default												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power Low High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				56340	56930	56190	56640					
Frequency (MHz)				3600	3600	3643	3600					
20	QPSK	1	0	22.85	22.91	22.83	22.83	24	0			
20	QPSK	1	49	22.72	22.79	22.55	22.75					
20	QPSK	1	89	22.85	22.88	22.48	22.52					
20	QPSK	50	0	21.85	21.90	21.50	21.75					
20	QPSK	50	24	21.80	21.70	21.63	21.58	23	1			
20	QPSK	50	50	21.75	21.66	21.60	21.58					
20	QPSK	100	0	21.76	21.81	21.61	21.72					
20	16QAM	1	0	21.74	21.70	21.68	21.58					
20	16QAM	1	49	21.68	21.65	21.65	21.50	23	1			
20	16QAM	1	99	21.58	21.59	21.59	21.57					
20	16QAM	50	0	20.78	20.68	20.59	20.74					
20	16QAM	50	24	20.61	20.50	20.54	20.42					
20	16QAM	50	50	20.71	20.61	20.53	20.60	22	2			
20	16QAM	100	0	20.67	20.65	20.54	20.59					
20	64QAM	1	0	20.80	20.52	20.52	20.55					
20	64QAM	1	49	20.65	20.55	20.59	20.69					
20	64QAM	1	99	20.55	20.53	20.43	20.58	21	3			
20	64QAM	50	0	19.88	19.81	19.44	19.67					
20	64QAM	50	24	19.79	19.58	19.48	19.42					
20	64QAM	50	50	19.71	19.70	18.43	19.34					
20	64QAM	100	0	19.75	19.78	19.48	19.75	19	5			
20	256QAM	1	0	17.86	17.70	17.44	17.63					
20	256QAM	1	49	17.80	17.50	17.64	17.50					
20	256QAM	1	99	17.55	17.72	17.57	17.53					
20	256QAM	25	0	17.79	17.76	17.58	17.65					
20	256QAM	50	24	17.46	17.30	17.55	17.65	19	5			
20	256QAM	50	50	17.80	17.73	17.67	17.74					
20	256QAM	100	0	17.67	17.81	17.60	17.67					
Channel				56315	56920	56190	56640					
Frequency (MHz)				3613	3613	3642	3613					
15	QPSK	1	0	22.79	22.75	22.53	22.61	24	0			
15	QPSK	1	37	22.56	22.85	22.44	22.65					
15	QPSK	1	74	22.53	22.71	22.31	22.42					
15	QPSK	36	0	21.74	21.74	21.58	21.58					
15	QPSK	36	20	21.59	21.52	21.59	21.59	23	1			
15	QPSK	36	36	21.64	21.68	21.60	21.55					
15	QPSK	75	0	21.61	21.62	21.44	21.62					
15	16QAM	1	0	21.68	21.72	21.57	21.44					
15	16QAM	1	37	21.48	21.48	21.48	21.40	23	1			
15	16QAM	1	74	21.37	21.80	21.40	21.49					
15	16QAM	36	0	20.80	20.66	20.51	20.75					
15	16QAM	36	20	20.45	20.54	20.45	20.52					
15	16QAM	36	36	20.72	20.80	20.44	20.46	22	2			
15	16QAM	75	0	20.71	20.76	20.55	20.49					
15	64QAM	1	0	20.65	20.76	20.51	20.68					
15	64QAM	1	37	20.47	20.47	20.39	20.52					
15	64QAM	1	74	20.37	20.63	20.45	20.60	22	2			
15	64QAM	36	0	19.53	19.64	19.41	19.45					
15	64QAM	36	20	19.69	19.45	19.38	19.42					
15	64QAM	36	36	19.73	19.67	19.37	19.37					
15	64QAM	75	0	19.57	19.51	19.45	19.74	19	5			
15	256QAM	1	0	17.89	17.57	17.46	17.51					
15	256QAM	1	37	17.65	17.30	17.42	17.41					
15	256QAM	1	74	17.35	17.67	17.49	17.35					
15	256QAM	36	0	17.66	17.59	17.51	17.55	19	5			
15	256QAM	36	20	17.88	17.78	17.50	17.55					
15	256QAM	36	36	17.76	17.52	17.53	17.58					
15	256QAM	75	0	17.58	17.73	17.41	17.51					
Channel				56295	56918	56195	56990					
Frequency (MHz)				3609	3607	3642.5	3605					
10	QPSK	1	0	22.66	22.84	22.48	22.79	24	0			
10	QPSK	1	25	22.71	22.70	22.35	22.74					
10	QPSK	1	49	22.45	22.67	22.37	22.41					
10	QPSK	36	0	21.65	21.69	21.67	21.65					
10	QPSK	25	12	21.64	21.70	21.47	21.48	23	1			
10	QPSK	25	25	21.55	21.64	21.40	21.69					
10	QPSK	50	0	21.56	21.61	21.45	21.59					
10	16QAM	1	0	21.52	21.50	21.59	21.41					
10	16QAM	1	25	21.49	21.58	21.62	21.37	23	1			
10	16QAM	1	49	21.48	21.63	21.62	21.48					
10	16QAM	25	0	20.81	20.57	20.45	20.53					
10	16QAM	25	12	20.50	20.52	20.51	20.37					
10	16QAM	25	25	20.49	20.72	20.44	20.45	22	2			
10	16QAM	50	0	20.67	20.82	20.62	20.48					
10	64QAM	1	0	20.79	20.66	20.37	20.51					
10	64QAM	1	25	20.53	20.47	20.57	20.61					
10	64QAM	1	49	20.55	20.68	20.45	20.62	22	2			
10	64QAM	25	0	19.60	19.70	19.29	19.69					
10	64QAM	25	12	19.67	19.51	19.41	19.26					
10	64QAM	25	25	19.67	19.52	19.25	19.44					
10	64QAM	50	0	19.55	19.56	19.35	19.59	19	5			
10	256QAM	1	0	17.56	17.66	17.53	17.58					
10	256QAM	1	25	17.77	17.45	17.51	17.41					
10	256QAM	1	49	17.50	17.64	17.35	17.45					
10	256QAM	25	0	17.77	17.64	17.49	17.65	19	5			
10	256QAM	25	12	17.63	17.67	17.52	17.56					
10	256QAM	25	25	17.57	17.52	17.55	17.55					
10	256QAM	50	0	17.80	17.72	17.41	17.65					
Channel				56295	56910	56190	56640					
Frequency (MHz)				3652.5	3607	3643	3607.5					
5	QPSK	1	0	22.71	22.88	22.45	22.67	24	0			
5	QPSK	1	12	22.61	22.78	22.53	22.73					
5	QPSK	1	24	22.47	22.84	22.54	22.45					
5	QPSK	12	0	21.79	21.68	21.50	21.68					
5	QPSK	12	7	21.61	21.52	21.43	21.58	23	1			
5	QPSK	12	13	21.69	21.67	21.50	21.59					
5	QPSK	25	0	21.69	21.77	21.47	21.56					
5	16QAM	1	0	21.64	21.60	21.53	21.47					
5	16QAM	1	12	21.52	21.54	21.54	21.39	23	1			
5	16QAM	1	24	21.30	21.68	21.58	21.47					
5	16QAM	12	0	20.72	20.89	20.42	20.89					
5	16QAM	12	7	20.50	20.53	20.33	20.38					
5	16QAM	12	13	20.53	20.72	20.45	20.51	22	2			
5	16QAM	25	0	20.68	20.85	20.54	20.37					
5	64QAM	1	0	20.63	20.67	20.53	20.57					
5	64QAM	1	12	20.64	20.45	20.36	20.40					
5	64QAM	1	24	20.43	20.65	20.46	20.55	22	2			
5	64QAM	12	0	19.46	19.67	19.29	19.66					
5	64QAM	12	7	19.60	19.56	19.35	19.31					
5	64QAM	12	13	19.52	19.48	19.34	19.42					
5	256QAM	1	0	19.75	19.66	19.38	19.67	19	5			
5	256QAM	1	0	17.53	17.69	17.33	17.49					
5	256QAM	1	12	17.74	17.44	17.54	17.40					
5	256QAM	1	24	17.60	17.71	17.51	17.46					
5	256QAM	12	0	17.58	17.67	17.43	17.56	19	5			



GSM1000 And Data									
GSM1000 TX Channel	Best Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit	
	160.2	161.1	162.0		161.2	161.1	161.0		
EDGE 1.1kbit/s	20.22	20.23	20.13	20.50	20.22	20.23	20.13	21.50	
GPRS 2.1 slots	26.43	26.49	26.34	26.50	22.43	22.49	22.34	23.50	
GPRS 2.1 slots	26.76	26.83	26.68	27.50	22.50	22.57	22.42	23.50	
GPRS 2.1 slots	26.76	26.88	26.80	26.50	22.60	22.68	22.60	23.50	
EDGE 1.1kbit/s	25.74	25.81	25.67	26.50	16.74	16.81	16.67	17.50	
EDGE 2.1 slots	24.60	24.68	24.64	25.50	18.60	18.68	18.64	19.50	
EDGE 2.1 slots	24.60	24.68	24.64	25.50	17.60	17.68	17.64	18.50	
EDGE 4.1kbit/s	20.02	20.14	20.79	22.50	17.80	18.04	17.79	19.50	



Band 2 Ant0 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Max Ch / Freq	Power Min Ch / Freq	Power Min Ch / Freq	Turn-up Time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.13	23.16	23.08			
20	QPSK	1	49	23.07	23.11	23.01	24	0	
20	QPSK	1	99	22.98	23.04	22.96			
20	QPSK	50	0	22.39	22.42	22.40			
20	QPSK	50	24	22.28	22.37	22.29			
20	QPSK	50	50	22.24	22.30	22.26	23	1	
20	QPSK	100	0	22.26	22.30	22.32			
20	QPSK	100	24	22.24	22.30	22.27			
20	16QAM	1	99	22.11	22.23	22.15	23	1	
20	16QAM	1	39	21.19	21.22	21.17			
20	16QAM	50	24	21.07	21.17	21.02	22	2	
20	16QAM	50	50	21.00	21.10	20.96			
20	16QAM	100	0	20.96	21.09	20.95			
20	64QAM	1	0	21.06	21.17	21.12			
20	64QAM	1	49	21.08	21.12	21.02	22	2	
20	64QAM	1	99	20.95	21.05	20.91			
20	64QAM	50	24	19.94	20.00	19.93	21	3	
20	64QAM	50	50	19.84	19.95	19.83			
20	64QAM	100	0	20.00	20.08	19.97			
20	256QAM	1	49	18.17	18.22	18.06	19	5	
20	256QAM	1	99	18.02	18.10	17.92			
20	256QAM	50	24	17.94	18.05	17.86			
20	256QAM	50	50	18.05	18.11	17.99	19	5	
20	256QAM	100	0	17.86	18.04	17.80			
20	256QAM	100	24	17.80	17.95	17.82			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.05	23.03	22.98			
15	QPSK	1	37	22.97	22.99	22.98	24	0	
15	QPSK	1	74	22.89	22.98	22.89			
15	QPSK	36	0	22.30	22.38	22.29			
15	QPSK	36	24	22.14	22.25	22.17	23	1	
15	QPSK	36	39	22.13	22.19	22.13			
15	QPSK	75	0	22.21	22.30	22.19			
15	16QAM	1	99	22.22	22.25	22.22	23	1	
15	16QAM	1	37	22.10	22.25	22.06			
15	16QAM	1	74	21.87	21.97	21.87			
15	16QAM	36	24	21.07	21.08	21.07	22	2	
15	16QAM	36	20	21.00	21.11	20.94			
15	16QAM	75	0	20.82	21.00	20.81			
15	64QAM	1	0	21.61	21.65	21.60	22	2	
15	64QAM	1	37	21.60	21.65	21.58			
15	64QAM	1	74	20.85	20.94	20.81			
15	64QAM	36	0	19.85	19.96	19.84	21	3	
15	64QAM	36	24	19.83	19.95	19.83			
15	64QAM	36	39	19.81	19.92	19.73			
15	64QAM	75	0	19.89	19.95	19.83			
15	256QAM	1	37	17.92	18.02	18.06	19	5	
15	256QAM	1	74	17.86	18.03	17.81			
15	256QAM	36	24	17.83	17.95	17.84			
15	256QAM	36	39	17.99	18.02	17.94	19	5	
15	256QAM	75	0	17.87	17.92	17.83			
15	256QAM	75	24	17.87	17.97	17.87			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.92	22.96	22.93			
10	QPSK	1	49	22.86	22.94	22.88	24	0	
10	QPSK	1	99	22.78	22.88	22.79			
10	QPSK	25	13	22.15	22.28	22.17	23	1	
10	QPSK	25	25	22.15	22.23	22.10			
10	QPSK	50	0	22.14	22.23	22.16			
10	16QAM	1	0	22.14	22.23	22.16			
10	16QAM	1	25	22.20	22.25	22.17	23	1	
10	16QAM	1	49	22.10	22.18	22.11			
10	16QAM	25	12	21.05	21.12	21.13	22	2	
10	16QAM	25	12	21.02	21.07	20.98			
10	16QAM	50	0	20.85	20.95	20.86			
10	64QAM	1	0	21.03	21.13	21.07	22	2	
10	64QAM	1	49	21.01	21.08	21.03			
10	64QAM	1	99	20.83	20.98	20.80			
10	64QAM	25	0	19.84	19.91	19.86	21	3	
10	64QAM	25	12	19.83	19.92	19.86			
10	64QAM	25	25	19.72	19.82	19.76			
10	64QAM	50	0	19.90	19.97	19.82			
10	256QAM	1	25	17.92	18.02	18.06	19	5	
10	256QAM	1	49	17.89	18.02	17.94			
10	256QAM	25	12	17.93	18.01	17.94			
10	256QAM	25	25	17.87	17.91	17.90	19	5	
10	256QAM	50	0	17.80	17.90	17.76			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.95	22.99	22.96			
5	QPSK	1	12	22.96	22.99	22.98	24	0	
5	QPSK	1	24	22.93	22.98	22.92			
5	QPSK	1	37	22.91	22.95	22.91			
5	QPSK	12	7	22.22	22.30	22.25	23	1	
5	QPSK	12	13	22.10	22.22	22.11			
5	16QAM	1	0	22.18	22.22	22.16			
5	16QAM	1	12	22.12	22.18	22.13	23	1	
5	16QAM	1	24	22.08	22.15	22.05			
5	16QAM	12	7	20.98	21.12	20.97	22	2	
5	16QAM	12	13	20.92	21.05	20.96			
5	16QAM	25	0	20.84	20.98	20.86			
5	64QAM	1	0	21.00	21.13	21.00	22	2	
5	64QAM	1	12	21.00	21.08	21.04			
5	64QAM	1	24	20.84	20.96	20.87			
5	64QAM	12	0	19.83	19.95	19.86	21	3	
5	64QAM	12	7	19.81	19.87	19.80			
5	64QAM	12	13	19.71	19.89	19.72			
5	64QAM	25	0	19.92	19.99	19.87			
5	64QAM	25	7	19.84	19.95	19.80			
5	256QAM	1	12	17.98	18.10	18.02	19	5	
5	256QAM	1	24	17.92	18.06	17.96			
5	256QAM	12	7	18.05	18.08	17.99			
5	256QAM	12	7	17.91	18.04	17.89	19	5	
5	256QAM	25	13	17.88	17.96	17.87			
5	256QAM	25	13	17.82	17.88	17.81			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.00	23.00	22.98			
3	QPSK	1	8	22.97	22.97	22.95	24	0	
3	QPSK	1	14	22.98	22.98	22.91			
3	QPSK	8	4	22.93	22.95	22.92			
3	QPSK	8	4	22.18	22.20	22.15	23	1	
3	QPSK	8	7	22.14	22.19	22.14			
3	QPSK	16	0	22.17	22.25	22.22			
3	16QAM	1	0	22.15	22.20	22.13			
3	16QAM	1	8	22.14	22.25	22.13	23	1	
3	16QAM	1	14	22.08	22.15	22.11			
3	16QAM	8	4	21.10	21.19	21.03	22	2	
3	16QAM	8	4	20.92	21.10	20.85			
3	16QAM	8	7	20.91	21.09	20.85			
3	16QAM	16	0	20.86	21.00	20.81			
3	64QAM	1	0	20.99	21.13	21.09	22	2	
3	64QAM	1	14	20.96	21.08	20.98			
3	64QAM	1	8	20.87	20.93	20.85			
3	64QAM	8	4	19.89	19.98	19.79	21	3	
3	64QAM	8	7	19.80	19.86	19.75			
3	64QAM	16	0	18.13	18.11	17.97			
3	256QAM	1	8	17.88	18.02	18.09	19	5	
3	256QAM	1	14	17.89	18.02	17.91			
3	256QAM	8	4	17.96	18.08	18.02			
3	256QAM	8	4	17.85	18.01	17.90	19	5	
3	256QAM	8	7	17.82	17.91	17.86			
3	256QAM	16	0	17.91	18.07	17.83			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.07	23.11	23.02			
1.4	QPSK	1	5	22.96	22.96	22.94	24	0	
1.4	QPSK	1	3	22.90	22.92	22.86			
1.4	QPSK	3	0	22.92	22.94	22.87			
1.4	QPSK	3	1	22.98	22.99	22.92			
1.4	QPSK	3	3	22.93	22.95	22.85			
1.4	QPSK	3	24	22.34	22.37	22.35	23	1	
1.4	16QAM	1	0	22.13	22.27	22.15			
1.4	16QAM	1	3	22.16	22.27	22.16			
1.4	16QAM	1	3	22.18	22.27	22.22	23	1	
1.4	16QAM	3	0	22.20	22.25	22.21			
1.4	16QAM	3	0	22.22	22.25	22.21			
1.4	16QAM	3	0	22.20	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			
1.4	16QAM	3	0	22.23	22.25	22.21			

Band 12 Ant0 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MPR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.99	23.02	22.91	24	0						
10	QPSK	1	25	22.84	22.92	22.96								
10	QPSK	1	49	22.85	22.89	22.83								
10	QPSK	25	0	21.91	22.02	21.89								
10	QPSK	25	12	21.91	21.87	21.91	23	1						
10	QPSK	25	25	21.84	21.90	21.75								
10	QPSK	50	0	21.82	21.86	21.91								
10	16QAM	1	0	21.85	21.92	21.85								
10	16QAM	1	25	21.83	21.87	21.73	23	1						
10	16QAM	1	49	21.70	21.80	21.74								
10	16QAM	25	0	20.48	20.58	20.53								
10	16QAM	25	12	20.49	20.53	20.40								
10	16QAM	25	25	20.42	20.45	20.36	22	2						
10	16QAM	50	0	20.55	20.61	20.56								
10	64QAM	1	0	20.80	20.85	20.71								
10	64QAM	1	25	20.70	20.75	20.66								
10	64QAM	1	49	20.59	20.71	20.64	21	3						
10	64QAM	25	0	19.48	19.55	19.49								
10	64QAM	25	12	19.43	19.50	19.46								
10	64QAM	25	25	19.35	19.43	19.34								
10	64QAM	50	0	19.52	19.58	19.44	19	5						
10	256QAM	1	25	17.65	17.70	17.67								
10	256QAM	1	49	17.51	17.63	17.57								
10	256QAM	25	0	17.68	17.75	17.67								
10	256QAM	25	12	17.44	17.59	17.39	19	5						
10	256QAM	25	25	17.39	17.43	17.32								
10	256QAM	50	0	17.66	17.72	17.67								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.91	22.91	22.80	24	0						
5	QPSK	1	12	22.91	22.86	22.87								
5	QPSK	1	24	22.71	22.79	22.71								
5	QPSK	12	0	21.82	21.90	21.74								
5	QPSK	12	13	21.84	21.80	21.87	23	1						
5	QPSK	12	13	21.77	21.80	21.62								
5	QPSK	25	0	21.76	21.83	21.67								
5	16QAM	1	0	21.76	21.78	21.74								
5	16QAM	1	12	21.76	21.78	21.59	23	1						
5	16QAM	1	24	21.69	21.68	21.63								
5	16QAM	12	0	20.34	20.48	20.46								
5	16QAM	12	7	20.48	20.41	20.28								
5	16QAM	12	13	20.29	20.36	20.27	22	2						
5	16QAM	25	0	20.42	20.49	20.47								
5	64QAM	1	0	20.73	20.73	20.59								
5	64QAM	1	12	20.68	20.67	20.54								
5	64QAM	1	24	20.47	20.59	20.59	21	3						
5	64QAM	12	0	19.43	19.50	19.36								
5	64QAM	12	7	19.48	19.35	19.28								
5	64QAM	12	13	19.30	19.35	19.21								
5	64QAM	25	0	19.41	19.53	19.38	19	5						
5	256QAM	1	0	17.68	17.69	17.64								
5	256QAM	1	12	17.57	17.59	17.51								
5	256QAM	1	24	17.41	17.42	17.42								
5	256QAM	12	0	17.36	17.42	17.34	19	5						
5	256QAM	12	7	17.37	17.42	17.34								
5	256QAM	12	13	17.29	17.35	17.24								
5	256QAM	25	0	17.40	17.45	17.42								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.85	22.88	22.85	24	0						
3	QPSK	1	8	22.83	22.88	22.91								
3	QPSK	1	14	22.78	22.83	22.74								
3	QPSK	8	0	21.77	21.80	21.85								
3	QPSK	8	7	21.75	21.87	21.86	23	1						
3	QPSK	8	7	21.73	21.84	21.88								
3	QPSK	16	0	21.79	21.82	21.79								
3	16QAM	1	0	21.80	21.89	21.79								
3	16QAM	1	8	21.78	21.79	21.64	23	1						
3	16QAM	1	8	21.69	21.79	21.80								
3	16QAM	8	0	20.34	20.49	20.44								
3	16QAM	8	4	20.37	20.48	20.29								
3	16QAM	8	7	20.28	20.35	20.30	22	2						
3	16QAM	15	0	20.48	20.53	20.48								
3	64QAM	1	0	20.88	20.79	20.63								
3	64QAM	1	8	20.85	20.72	20.54								
3	64QAM	1	14	20.54	20.57	20.58	21	3						
3	64QAM	8	0	19.41	19.40	19.45								
3	64QAM	8	4	19.37	19.38	19.35								
3	64QAM	8	7	19.31	19.31	19.23								
3	64QAM	15	0	19.48	19.50	19.35	19	5						
3	256QAM	1	0	17.53	17.55	17.55								
3	256QAM	1	8	17.53	17.59	17.80								
3	256QAM	1	14	17.48	17.59	17.49								
3	256QAM	8	0	17.36	17.47	17.36	19	5						
3	256QAM	8	4	17.38	17.47	17.36								
3	256QAM	8	7	17.30	17.32	17.25								
3	256QAM	15	0	17.42	17.53	17.41								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.84	22.83	22.87	24	0						
1.4	QPSK	1	3	22.81	22.89	22.90								
1.4	QPSK	1	5	22.81	22.84	22.88								
1.4	QPSK	3	0	22.90	22.86	22.85								
1.4	QPSK	3	1	22.85	22.87	22.90	23	1						
1.4	QPSK	3	3	22.77	22.83	22.84								
1.4	QPSK	6	0	21.80	21.89	21.75								
1.4	16QAM	1	0	21.87	21.88	21.87								
1.4	16QAM	1	3	21.79	21.85	21.83	23	1						
1.4	16QAM	1	6	21.73	21.80	21.77								
1.4	16QAM	3	0	21.74	21.78	21.79								
1.4	16QAM	3	1	21.69	21.73	21.69								
1.4	16QAM	6	3	21.66	21.72	21.68	22	2						
1.4	16QAM	6	0	20.43	20.47	20.46								
1.4	64QAM	1	0	20.37	20.40	20.29								
1.4	64QAM	1	3	20.33	20.31	20.21								
1.4	64QAM	1	5	20.50	20.50	20.50	22	2						
1.4	64QAM	3	0	20.72	20.71	20.59								
1.4	64QAM	3	3	20.67	20.64	20.61								
1.4	64QAM	3	6	20.45	20.57	20.53								
1.4	64QAM	6	0	19.46	19.46	19.34	21	3						
1.4	256QAM	1	0	17.52	17.67	17.54								
1.4	256QAM	1	3	17.51	17.58	17.54								
1.4	256QAM	1	6	17.36	17.52	17.49								
1.4	256QAM	3	0	17.35	17.43	17.34	19	5						
1.4	256QAM	3	1	17.33	17.42	17.29								
1.4	256QAM	3	3	17.26	17.35	17.24								
1.4	256QAM	6	0	17.39	17.52	17.39								

Band 25 Ant0 Default																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)								
Channel																
1800 1800 1800																
20	QPSK	1	0	23.13	23.13	23.06			24	0						
20	QPSK	1	49	22.83	23.13	23.06										
20	QPSK	1	99	22.89	23.06	23.77										
20	QPSK	50	0	22.02	22.02	21.94										
20	QPSK	50	24	21.90	22.02	21.94			23	1						
20	QPSK	50	50	21.78	21.93	21.87										
20	QPSK	100	0	21.69	22.02	21.91										
20	16QAM	1	0	21.89	21.97	21.93										
20	16QAM	1	49	21.69	22.10	21.81			23	1						
20	16QAM	1	99	21.73	22.02	21.81										
20	16QAM	50	0	20.48	20.99	20.97										
20	16QAM	50	24	20.48	20.95	20.94										
20	16QAM	50	50	20.41	20.97	20.99			22	2						
20	16QAM	100	0	20.43	20.95											
20	64QAM	1	0	20.75	20.92	20.99										
20	64QAM	1	49	20.54	20.95	20.52										
20	64QAM	1	99	20.57	20.97	20.96			21	3						
20	64QAM	50	0	19.43	19.84	19.46										
20	64QAM	50	24	19.41	19.82	19.35										
20	64QAM	50	50	19.38	19.85	19.43										
20	64QAM	100	0	19.38	19.86	19.38			19	5						
20	256QAM	1	0	17.66	17.87	17.81										
20	256QAM	1	49	17.60	17.81	17.52										
20	256QAM	1	99	17.55	17.79	17.45										
20	256QAM	50	0	17.40	17.61	17.37			19	5						
20	256QAM	50	24	17.31	17.79	17.31										
20	256QAM	50	50	17.30	17.84	17.37										
20	256QAM	100	0	17.45	17.77	17.38										
Channel																
26115 26149 26615																
Frequency (MHz)																
1807.5 1800 1907.5																
18	QPSK	1	0	22.88	23.04	22.89			24	0						
18	QPSK	1	37	22.89	23.06	22.72										
18	QPSK	1	74	22.79	22.98	22.92										
18	QPSK	36	0	21.99	22.01	21.90										
18	QPSK	36	25	21.86	21.98	21.77			23	1						
18	QPSK	36	39	21.70	21.79	21.54										
18	QPSK	75	0	21.90	21.89	21.88										
18	16QAM	1	0	21.77	21.87	21.89										
18	16QAM	1	37	21.55	22.01	21.55			23	1						
18	16QAM	1	74	21.66	21.91	21.67										
18	16QAM	36	0	20.38	20.78	20.36										
18	16QAM	36	25	20.37	20.80	20.32										
18	16QAM	36	39	20.34	20.74	20.37			22	2						
18	16QAM	75	0	20.33	20.81	20.39										
18	64QAM	1	0	20.65	20.86	20.47										
18	64QAM	1	37	20.51	20.89	20.44										
18	64QAM	1	74	20.47	20.77	20.42			21	3						
18	64QAM	36	0	19.31	19.73	19.33										
18	64QAM	36	25	19.31	19.74	19.31										
18	64QAM	36	39	19.25	19.75	19.33										
18	64QAM	75	0	19.29	19.74	19.34			19	5						
18	256QAM	1	0	17.54	17.67	17.52										
18	256QAM	1	37	17.47	17.69	17.43										
18	256QAM	1	74	17.47	17.74	17.34										
18	256QAM	36	0	17.36	17.66	17.35			19	5						
18	256QAM	36	25	17.24	17.65	17.22										
18	256QAM	36	39	17.23	17.54	17.34										
18	256QAM	75	0	17.40	17.67	17.35										
Channel																
26660 26149 26660																
Frequency (MHz)																
1855 1800 1910																
18	QPSK	1	0	22.89	23.04	22.89			24	0						
18	QPSK	1	25	22.84	23.06	22.89										
18	QPSK	1	49	22.77	22.97	22.89										
18	QPSK	25	0	21.86	21.90	21.86										
18	QPSK	25	12	21.84	21.95	21.70			23	1						
18	QPSK	25	25	21.67	21.80	21.55										
18	QPSK	50	0	21.86	21.86	21.83										
18	16QAM	1	0	21.85	21.83	21.89										
18	16QAM	1	25	21.67	22.03	21.54			23	1						
18	16QAM	1	49	21.66	21.98	21.57										
18	16QAM	25	0	20.40	20.78	20.40										
18	16QAM	25	12	20.40	20.71	20.36										
18	16QAM	36	0	20.32	20.78	20.34			22	2						
18	16QAM	36	25	20.32	20.78	20.34										
18	16QAM	50	0	20.37	20.79	20.39										
18	64QAM	1	0	20.65	20.79	20.50										
18	64QAM	1	25	20.42	20.74	20.48			22	2						
18	64QAM	1	49	20.52	20.79	20.36										
18	64QAM	25	0	19.35	19.80	19.34										
18	64QAM	25	12	19.35	19.71	19.35										
18	64QAM	25	25	19.34	19.67	19.40			21	3						
18	64QAM	50	0	19.31	19.73	19.34										
18	256QAM	1	0	17.58	17.62	17.56										
18	256QAM	1	25	17.47	17.74	17.37										
18	256QAM	1	49	17.47	17.68	17.36			19	5						
18	256QAM	25	0	17.36	17.66	17.25										
18	256QAM	25	12	17.21	17.70	17.36										
18	256QAM	25	25	17.24	17.53	17.31										
18	256QAM	50	0	17.35	17.67	17.39			19	5						
Channel																
26665 26149 26685																
Frequency (MHz)																
1862.5 1800 1912.5																
18	QPSK	1	0	23.00	23.04	23.00			24	0						
18	QPSK	1	12	22.83	23.07	22.86										
18	QPSK	1	24	22.79	22.98	22.79										
18	QPSK	12	0	21.84	21.91	21.85										
18	QPSK	12	7	21.85	21.87	21.89			23	1						
18	QPSK	12	13	21.68	21.79	21.55										
18	QPSK	25	0	21.84	21.87	21.84										
18	16QAM	1	0	21.83	21.87	21.77										
18	16QAM	1	12	21.67	22.03	21.54			23	1						
18	16QAM	1	24	21.68	21.98	21.48										
18	16QAM	12	0	20.36	20.78	20.41										
18	16QAM	12	7	20.37	20.71	20.36										
18	16QAM	12	13	20.35	20.68	20.31			22	2						
18	16QAM	25	0	20.39	20.72	20.40										
18	16QAM	25	7	20.35	20.68	20.31										
18	16QAM	12	13	20.35	20.68	20.31										
18	16QAM	1	12	20.46	20.83	20.48			22	2						
18	16QAM	1	24	20.47	20.79	20.44										
18	16QAM	12	13	19.36	19.75	19.38										
18	16QAM	12	7	19.36	19.78	19.27										
18	16QAM	12	13	19.32	19.72	19.32			21	3						
18	16QAM	25	0	19.33	19.77	19.30										
18	16QAM	1	0	17.64	17.73	17.43										
18	16QAM	1	12	17.62	17.73	17.48										
18	256QAM	1	24	17.48	17.67	17.31			19	5						
18	256QAM	1	12	17.27	17.69	17.27										
18	256QAM	1	24	17.47	17.72	17.31										
18	256QAM	12	13	17.26	17.60	17.23										
18	256QAM	12	19	17.19	17.60	17.23			19	5						
18	256QAM	25	0	17.38	17.70	17.34										
Channel																
26747 26149 26747																
Frequency (MHz)																
1860.7 1800 1914.3																
14	QPSK	1	0	23.10	23.06	23.00			24	0						
14	QPSK	1	8	22.89	23.08	22.71										
14	QPSK	1	16	22.74	23.02	22.72										
14	QPSK	1	24	22.61	23.00	22.70										
14	QPSK	3	0	22.92	22.95	22.88			23	1						
14	QPSK	3	8	22.68	22.96	22.89										
14	QPSK	1	0	21.88	21.96	21.89										
14	QPSK	1	8	21.87	21.98	21.89										
14	QPSK	1	16	21.69	21.84	21.83			23	1						
14	QPSK	15	0	21.85	21.93	21.83										
14	QPSK	1	24	21.84	21.96	21.84										
14	16QAM	1	0	21.58	21.98	21.58										
14	16QAM	1	14	21.58	21.95	21.58			22	2						
14	16QAM	1	24	21.52	21.91	21.52										
14	16QAM	8	4	20.43	20.78	20.43										
14	16QAM	8	7	20.33	20.75	20.32										
14	16QAM	8	16	20.34	20.83	20.30			22	2						
14	16QAM	1	8	20.45	20.83	20.45										
14	16QAM	1	16	20.42	20.79	20.42										
14	16QAM	8	0	19.33	19.78	19.33										
14	16QAM	8	4	19.33	19.68	19.28			21	3						
14	16QAM	8	7	19.32	19.67	19.28										
14	16QAM	1	0	17.62	17.71	17.42										
14	16QAM	1	8	17.47	17.75	17.41										
14	16QAM	1	14	17.41	17.67	17.37			19	5						
14	16QAM	1	24	17.34	17.72	17.27										
14	16QAM	8	0	17.26	17.65	17.26										
14	16QAM	8	7	17.26	17.49	17.28										
14	16QAM	8	16	17.23	17.58	17.23			19	5						
Channel																
26747 26149 26747																
Frequency (MHz)																
1860.7 1800 1914.3																
14	QPSK	1	0	23.10	23.06	23.00			24	0						
14	QPSK	1	8	22.89	23.08	22.71										
14	QPSK	1	16	22.74	23.02	22.72										
14	QPSK	1	24	22.61	23.00	22.70										
14																

Band 66 Ant0 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 150072	Power Middle Ch./Freq. 150532	Power High Ch./Freq. 151012	Tune-up (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	23.24	23.26	23.11	24	0						
20	QPSK	1	48	23.15	23.21	22.98								
20	QPSK	1	96	23.10	23.14	22.86								
20	QPSK	50	0	22.17	22.27	22.24								
20	QPSK	50	24	22.13	22.22	22.09	23	1						
20	QPSK	50	50	22.11	22.19	22.08								
20	QPSK	100	0	22.13	22.22	22.16								
20	16QAM	1	0	22.33	22.46	22.27								
20	16QAM	1	48	22.29	22.43	22.18	23	1						
20	16QAM	1	96	22.24	22.36	22.17								
20	16QAM	50	0	21.30	21.39	21.17								
20	16QAM	50	24	21.19	21.31	21.13								
20	16QAM	50	50	21.14	21.24	21.04	22	2						
20	16QAM	100	0	21.08	21.20	21.04								
20	64QAM	1	0	21.31	21.40	21.27								
20	64QAM	1	48	21.30	21.35	21.16								
20	64QAM	1	96	21.17	21.26	21.03	22	2						
20	64QAM	50	0	20.25	20.50	20.21								
20	64QAM	50	24	20.22	20.26	20.13								
20	64QAM	50	50	20.15	20.27	20.09								
20	256QAM	100	0	20.14	20.27	20.09	21	3						
20	256QAM	1	0	18.22	18.34	18.15								
20	256QAM	1	48	18.16	18.29	18.07								
20	256QAM	1	96	18.12	18.22	18.05								
20	256QAM	50	0	18.19	18.28	18.14	19	5						
20	256QAM	50	24	18.14	18.21	18.02								
20	256QAM	50	50	17.99	18.14	17.95								
20	256QAM	100	0	18.18	18.25	18.06								
Channel														
Frequency (MHz)														
15	QPSK	1	0	23.17	23.16	22.88	24	0						
15	QPSK	1	37	23.02	23.06	22.87								
15	QPSK	1	74	23.04	23.11	22.85								
15	QPSK	36	0	22.11	22.23	22.11								
15	QPSK	36	20	22.00	22.09	22.03	23	1						
15	QPSK	36	39	22.03	22.01	21.99								
15	QPSK	75	0	22.08	22.13	22.04								
15	16QAM	1	0	22.22	22.42	22.22								
15	16QAM	1	37	22.16	22.38	22.14	23	1						
15	16QAM	1	74	22.17	22.36	22.15								
15	16QAM	36	0	21.19	21.32	21.10								
15	16QAM	36	20	21.12	21.22	21.08								
15	16QAM	36	39	21.02	21.10	21.01	22	2						
15	16QAM	75	0	21.03	21.23	20.95								
15	64QAM	1	0	21.22	21.36	21.18								
15	64QAM	1	37	21.17	21.28	21.14								
15	64QAM	1	74	21.05	21.21	20.97	21	3						
15	64QAM	36	0	20.14	20.24	20.16								
15	64QAM	36	20	20.10	20.16	20.05								
15	64QAM	36	39	20.01	20.11	19.94								
15	64QAM	75	0	20.02	20.19	19.93	19	5						
15	256QAM	1	0	18.16	18.26	18.12								
15	256QAM	1	37	18.03	18.20	17.95								
15	256QAM	1	74	18.02	18.12	17.91								
15	256QAM	36	0	18.10	18.17	18.02	19	5						
15	256QAM	36	20	18.07	18.09	17.96								
15	256QAM	36	39	17.90	18.07	17.90								
15	256QAM	75	0	18.05	18.10	18.04								
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.21	23.22	23.12	24	0						
10	QPSK	1	25	23.01	23.12	22.94								
10	QPSK	1	49	23.05	23.05	22.85								
10	QPSK	25	12	22.05	22.14	21.95								
10	QPSK	25	25	22.04	22.05	22.00	23	1						
10	QPSK	25	39	22.00	22.02	21.97								
10	16QAM	1	0	22.28	22.30	22.23								
10	16QAM	1	25	22.26	22.29	22.11								
10	16QAM	1	49	22.21	22.26	22.16	23	1						
10	16QAM	25	0	21.25	21.33	21.07								
10	16QAM	25	12	21.12	21.27	21.07								
10	16QAM	36	0	21.08	21.16	21.01								
10	16QAM	50	0	21.04	21.19	20.89	22	2						
10	64QAM	1	0	21.26	21.28	21.21								
10	64QAM	1	25	21.13	21.30	21.09								
10	64QAM	1	49	21.04	21.17	20.92								
10	64QAM	25	0	20.19	20.19	20.15	21	3						
10	64QAM	25	12	20.09	20.16	20.16								
10	64QAM	25	25	20.07	20.10	19.96								
10	64QAM	50	0	20.10	20.13	20.00								
10	256QAM	50	0	18.18	18.21	18.06	19	5						
10	256QAM	1	25	18.05	18.10	17.95								
10	256QAM	1	49	18.01	18.10	17.91								
10	256QAM	25	0	18.12	18.15	18.01								
10	256QAM	25	12	18.05	18.10	17.91	19	5						
10	256QAM	25	25	17.86	18.00	17.83								
10	256QAM	50	0	18.08	18.10	17.95								
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.17	23.14	23.11	24	0						
5	QPSK	1	12	23.10	23.11	23.03								
5	QPSK	1	24	22.99	23.04	22.83								
5	QPSK	12	0	22.06	22.34	22.08								
5	QPSK	12	7	21.99	22.12	21.98	23	1						
5	QPSK	12	13	22.08	22.07	21.94								
5	QPSK	25	0	22.06	22.10	22.02								
5	16QAM	1	0	22.23	22.44	22.13								
5	16QAM	1	12	22.23	22.36	22.09	23	1						
5	16QAM	1	24	22.18	22.21	22.13								
5	16QAM	12	0	21.25	21.28	21.14								
5	16QAM	12	7	21.09	21.24	21.02								
5	16QAM	12	14	21.07	21.15	20.99	22	2						
5	16QAM	25	0	21.11	21.19	20.94								
5	64QAM	1	0	21.22	21.34	21.20								
5	64QAM	1	12	21.25	21.27	21.12								
5	64QAM	1	24	21.13	21.19	20.93	21	3						
5	64QAM	12	0	20.19	20.20	20.16								
5	64QAM	12	7	20.15	20.22	20.04								
5	64QAM	12	13	20.04	20.09	20.00								
5	64QAM	25	0	20.01	20.10	19.94	19	5						
5	256QAM	1	0	18.15	18.20	18.02								
5	256QAM	1	12	18.02	18.17	18.02								
5	256QAM	1	24	18.02	18.01	18.00								
5	256QAM	12	0	18.13	18.12	18.11	19	5						
5	256QAM	12	7	18.04	18.10	17.92								
5	256QAM	12	13	17.85	18.05	17.82								
5	256QAM	25	0	18.04	18.17	17.89	19	5						
Channel														
Frequency (MHz)														
3	QPSK	1	0	23.21	23.16	22.88					24	0		
3	QPSK	1	37	23.02	23.06	22.87								
3	QPSK	1	74	23.04	23.10	22.84								
3	QPSK	8	0	22.05	22.14	21.99								
3	QPSK	8	7	22.05	22.12	21.95	23	1						
3	QPSK	8	14	22.08	22.12	22.03								
3	QPSK	16	0	22.09	22.08	22.12								
3	16QAM	1	0	22.33	22.43	22.15								
3	16QAM	1	8	22.21	22.36	22.18	23	1						
3	16QAM	1	14	22.13	22.29	22.08								
3	16QAM	8	0	21.28	21.32	21.24								
3	16QAM	8	7	21.14	21.21	21.01								
3	16QAM	8	14	21.09	21.20	20.95	22	2						
3	16QAM	16	0	21.21	21.36	21.23								
3	16QAM	16	7	21.04	21.14	21.00								
3	16QAM	16	14	20.18	20.28	20.15								
3	16QAM	8	0	20.11	20.24	20.19	21	3						
3	16QAM	8	7	20.05	20.15	20.01								
3	16QAM	8	14	19.11	19.21	19.01								
3	16QAM	16	0	19.12	19.19	18.94								
3	16QAM	16	7	19.02	19.10	18.78	19	5						
3	256QAM	1	0	18.02	18.12	17.98								
3	256QAM	1	7	17.86	17.99	17.84								
3	256QAM	1	14	18.02	18.10	17.97								
3	256QAM	8	0	18.07	18.10	18.01	19	5						
3	256QAM	8	7	17.89	18.09	17.81								
3	256QAM	8	14	17.87	17.96	17.78								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	23.11	23.10	22.97	24	0						
1.4	QPSK	1	8	23.06	23.17	23.02								
1.4	QPSK	1	8	23.05	23.08	22.98								
1.4	QPSK	3	0	23.10	23.12	22.99								
1.4	QPSK	3	8	23.05	23.12	22.95	23	1						
1.4	QPSK	3	8	22.99	23.11	22.95								
1.4	QPSK	1	0	22.12	22.17	22.12								
1.4	16QAM	1	0	22.09	22.09	22.03								
1.4	16QAM	1	8	22.08	22.08	22.03	23	1						
1.4	16QAM	1	8	22.15	22.15	22.10								
1.4	16QAM	3	0	22.26	22.42	22.13								
1.4	16QAM	3	8	22.21	22.31	22.12								
1.4	16QAM	3	8	21.24	21.29	21.10	22	2						
1.4	16QAM	1	0	21.15	21.21	21.07								
1.4	16QAM	1	8	21.08	21.23	21.07								
1.4	16QAM	1	8	21.13	21.26	21.09								
1.4	16QAM	3	0	21.07	21.15	21.03	21	3						
1.4	16QAM	3	8	21.11	20.21	19.93								
1.4	16QAM	3	8	21.08	21.18	21.01								
1.4	16QAM	3	8	19.10	19.19	17.98								
1.4	256QAM	1	0	18.02	18.12	17.98	19	5						
1.4	256QAM	1	8	18.02	18.10	18.00								
1.4	256QAM	3	0	18.02	18.10	17.98								
1.4	256QAM	3	8	18.02	18.10	17.97								
1.4	256QAM	3	8	18.09	18.10	18.01	19	5						
1.4	256QAM	3	8	18.09	18.10	18.01								
1.4	256QAM	3	8	18.09	18.10	18.01								
1.4	256QAM	3	8	18.09	18.10	18.01								



Band 38 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / [Freq]	Power High Ch / [Freq]	Power Ch / [Freq]	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37950	38050	38150			
20	QPSK	1	0	23.15	23.15	23.14			
20	QPSK	1	49	23.02	23.11	23.04	24	0	
20	QPSK	1	89	22.96	23.04	22.98			
20	QPSK	50	0	22.14	22.19	22.16			
20	QPSK	50	24	22.08	22.14	22.01	23	1	
20	QPSK	50	49	22.02	22.13	21.97			
20	QPSK	100	0	22.11	22.13	22.09			
20	QPSK	1	0	22.06	22.18	21.94	23	1	
20	HQAM	1	49	22.02	22.13	21.97			
20	HQAM	1	99	22.00	22.19	21.96			
20	HQAM	50	24	21.97	22.19	21.90			
20	HQAM	50	49	21.91	22.18	21.89	22	2	
20	HQAM	50	50	21.86	22.19	21.83			
20	HQAM	100	0	21.96	22.17	21.90			
20	HQAM	1	0	21.89	22.15	21.75			
20	HQAM	1	49	21.87	22.05	21.85	22	2	
20	HQAM	1	99	21.75	22.03	21.61			
20	HQAM	50	0	21.09	22.03	21.06			
20	HQAM	50	24	21.03	22.18	21.00			
20	HQAM	50	50	21.03	22.11	20.99	21	3	
20	HQAM	100	0	21.01	22.14	20.97			
20	25QAM	1	0	18.09	18.13	18.03			
20	25QAM	1	49	18.04	18.08	18.00	19	5	
20	25QAM	1	99	17.95	18.01	17.90			
20	25QAM	50	0	18.16	18.24	18.09			
20	25QAM	50	24	18.16	18.19	18.08	19	5	
20	25QAM	50	50	18.06	18.12	17.92			
20	25QAM	100	0	18.06	18.16	18.00			
Channel									
Frequency (MHz)				37925	38025	38125	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	23.15	23.15	23.14			
15	QPSK	1	37	22.86	23.08	22.98	24	0	
15	QPSK	1	74	22.94	22.80	22.94			
15	QPSK	36	0	22.05	22.11	22.11			
15	QPSK	36	20	22.01	22.08	21.93	23	1	
15	QPSK	36	36	22.03	22.02	21.97			
15	QPSK	75	0	22.03	22.02	22.03			
15	HQAM	1	0	22.02	22.14	21.85	23	1	
15	HQAM	1	37	21.90	22.00	21.78			
15	HQAM	1	74	21.90	22.01	21.90			
15	HQAM	36	0	21.00	21.11	20.86			
15	HQAM	36	20	21.00	21.09	20.90	22	2	
15	HQAM	36	36	20.93	21.04	20.76			
15	HQAM	75	0	20.94	21.13	20.85			
15	HQAM	75	20	20.91	20.91	20.81	22	2	
15	HQAM	1	37	20.79	20.79	20.61			
15	HQAM	1	74	20.63	20.76	20.54			
15	HQAM	36	0	20.00	20.13	19.94	21	3	
15	HQAM	36	20	20.00	20.11	19.95			
15	HQAM	36	36	19.97	20.00	19.85			
15	25QAM	1	0	17.97	17.99	17.87			
15	25QAM	1	37	17.95	18.02	17.88	19	5	
15	25QAM	1	74	17.90	17.99	17.83			
15	25QAM	36	0	18.02	18.18	17.93			
15	25QAM	36	20	18.00	18.04	17.89	19	5	
15	25QAM	36	36	17.99	18.06	17.85			
15	25QAM	75	0	18.00	18.06	18.00			
Channel									
Frequency (MHz)				25715	25715	25715	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	23.01	23.01	23.01			
5	QPSK	1	25	22.92	22.99	22.90	24	0	
5	QPSK	1	49	22.90	22.87	22.86			
5	QPSK	12	0	22.90	22.97	22.89			
5	QPSK	12	7	21.90	22.07	21.97	23	1	
5	QPSK	25	12	21.96	22.05	21.95			
5	QPSK	25	25	21.95	21.97	21.87			
5	HQAM	1	0	21.96	22.14	21.87	23	1	
5	HQAM	1	25	21.89	22.03	21.74			
5	HQAM	1	49	21.98	21.99	21.87			
5	HQAM	25	0	21.01	21.08	20.93			
5	HQAM	25	12	21.01	21.11	20.86	22	2	
5	HQAM	25	25	21.00	21.01	20.90			
5	HQAM	50	0	20.98	21.03	20.88			
5	HQAM	50	12	20.93	20.79	20.68	22	2	
5	HQAM	50	25	20.79	20.80	20.52			
5	HQAM	1	49	20.62	20.75	20.50	22	2	
5	HQAM	25	0	19.94	20.15	20.00			
5	HQAM	25	12	20.01	20.03	20.03	21	3	
5	HQAM	25	25	19.92	20.06	19.79			
5	HQAM	50	0	19.94	20.19	19.92			
5	25QAM	1	0	17.95	18.09	17.90			
5	25QAM	1	25	17.97	18.05	17.87	19	5	
5	25QAM	1	49	17.81	17.87	17.86			
5	25QAM	12	0	17.98	18.17	17.86			
5	25QAM	12	7	18.05	18.08	17.94	19	5	
5	25QAM	25	0	17.97	18.01	17.92			
5	25QAM	25	12	18.08	18.06	17.94			
5	25QAM	25	25	18.07	18.01	17.85	19	5	
5	25QAM	50	0	18.08	18.00	18.00			

Band 41 Ant0 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / [Freq]	Power High Ch / [Freq]	Power Center Ch / [Freq]	Power Peak Ch / [Freq]	Power Peak Ch / [Freq]	Power Peak Ch / [Freq]	Tune-up limit (dBm)	MFR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
20	QPSK	1	0	22.95	23.02	23.11	23.05	23.12			
20	QPSK	1	49	23.15	23.10	23.19	23.05	23.11	24	0	
20	QPSK	1	99	23.00	23.11	23.19	23.02	23.01			
20	QPSK	50	0	22.12	22.17	22.20	22.19	22.19			
20	QPSK	50	24	22.14	22.08	22.21	22.08	22.07	23	1	
20	QPSK	50	49	22.01	22.10	22.19	22.04	22.01			
20	QPSK	100	0	22.19	22.15	22.22	22.16	22.09			
20	16QAM	1	0	22.08	22.10	22.15	22.10	22.05	23	1	
20	16QAM	1	49	22.01	22.11	21.21	22.04	22.01			
20	16QAM	1	99	21.98	21.85	22.03	21.91	21.98			
20	16QAM	50	24	21.13	21.12	21.06	21.20	21.13			
20	16QAM	50	24	21.17	21.16	21.21	21.15	21.15			
20	16QAM	50	50	21.08	21.07	21.14	21.04	21.06	22	2	
20	16QAM	100	0	21.09	21.16	21.09	21.09	21.05			
20	64QAM	1	0	21.02	21.04	21.05	21.07	21.02			
20	64QAM	1	49	20.91	20.85	21.03	20.90	20.98	22	2	
20	64QAM	1	99	20.90	20.85	20.86	20.88	20.83			
20	64QAM	50	0	20.19	20.11	20.24	20.13	20.15			
20	64QAM	50	24	20.06	20.04	20.19	20.14	20.15			
20	64QAM	50	50	19.98	20.05	20.12	20.04	20.09	21	3	
20	64QAM	100	0	20.11	20.10	20.19	20.11	20.10			
20	25QAM	1	0	18.18	18.22	18.28	18.14	18.21			
20	25QAM	1	49	18.18	18.18	18.23	18.08	18.08	19	5	
20	25QAM	1	99	18.12	18.11	18.16	18.06	18.12			
20	25QAM	50	0	18.16	18.06	18.22	18.12	18.12			
20	25QAM	50	24	18.06	18.11	18.17	18.08	18.12	19	5	
20	25QAM	50	50	18.00	17.88	18.10	17.88	18.01			
20	25QAM	100	0	18.12	18.10	18.16	18.00	18.13			
Channel											
Frequency (MHz)				39725	40173	40620	41058	41515	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	22.95	23.02	23.11	23.05	23.12			
15	QPSK	1	37	23.04	23.06	23.06	22.83	23.05	24	0	
15	QPSK	1	74	22.95	22.86	23.07	22.88	22.90			
15	QPSK	36	0	22.03	22.03	22.22	22.09	22.18			
15	QPSK	36	20	22.06	21.95	22.16	21.94	21.97	23	1	
15	QPSK	36	36	21.98	22.01	22.03	21.89	21.96			
15	QPSK	75	0	22.08	22.03	22.17	22.11	21.95			
15	16QAM	1	0	22.02	22.04	22.09	22.04	21.90	23	1	
15	16QAM	1	37	21.90	21.81	21.90	21.77	21.82			
15	16QAM	1	74	21.87	21.87	21.91	21.83	21.88			
15	16QAM	36	0	21.00	20.97	21.21	21.08	21.14			
15	16QAM	36	20	21.07	21.06	21.21	21.09	21.08	22	2	
15	16QAM	36	36	21.02	20.93	21.00	20.97	21.01			
15	16QAM	75	0	20.98	21.08	21.10	20.88	20.85			
15	64QAM	1	0	20.90	20.80	20.93	20.87	20.98	22	2	
15	64QAM	1	37	20.84	20.85	20.94	20.87	20.89			
15	64QAM	74	0	20.76	20.77	20.83	20.76	20.75			
15	64QAM	36	0	20.10	20.97	20.10	20.09	20.07	21	3	
15	64QAM	36	20	19.83	20.00	20.12	20.08	20.10			
15	64QAM	36	36	19.85	19.87	20.16	19.85	19.89			
15	64QAM	75	0	19.97	19.99	20.14	19.97	20.04			
15	25QAM	1	0	18.01	18.18	18.17	18.00	18.08	19	5	
15	25QAM	1	37	18.04	18.11	18.20	17.97	17.94			
15	25QAM	1	74	18.02	18.03	18.10	17.94	17.88			
15	25QAM	36	0	18.02	18.03	18.08	17.95	17.97	19	5	
15	25QAM	36	20	17.86	17.88	17.88	17.62	17.67			
15	25QAM	36	36	18.06	18.05	18.17	17.67	17.68			
Channel											
Frequency (MHz)				39700	40160	40620	41068	41540	Tune-up limit (dBm)	MFR (dB)	
20	QPSK	1	0	22.91	23.00	23.13	23.03	23.15			
20	QPSK	1	25	23.01	22.98	23.08	23.01	22.99	24	0	
20	QPSK	1	49	22.96	22.94	23.03	22.93	22.93			
20	QPSK	25	0	22.01	22.06	22.20	22.11	22.07	23	00.00	
20	QPSK	25	12	22.07	21.95	22.14	21.88	22.07	23	1	
20	QPSK	25	25	22.08	22.02	22.15	21.77	21.93			
20	QPSK	50	0	22.02	22.10	22.13	22.05	21.99			
20	16QAM	1	0	22.01	22.02	22.07	22.01	21.94			
20	16QAM	1	25	21.96	21.90	22.01	21.91	21.88	23	1	
20	16QAM	1	49	21.90	21.86	21.95	21.85	21.83			
20	16QAM	25	0	21.08	21.00	21.21	21.08	21.06			
20	16QAM	25	12	21.04	21.04	21.21	21.06	21.03	21	2	
20	16QAM	25	25	20.99	20.99	21.10	20.91	20.82			
20	16QAM	50	0	20.98	21.01	21.06	20.98	20.94			
20	64QAM	1	0	20.90	20.79	20.99	20.87	20.90			
20	64QAM	1	25	20.78	20.81	20.86	20.84	20.82	22	2	
20	64QAM	1	49	20.78	20.78	20.81	20.75	20.77			
20	64QAM	25	0	20.99	20.92	20.92	20.10	20.11			
20	64QAM	25	12	20.96	20.97	20.12	20.09	20.05			
20	64QAM	25	25	20.88	20.90	20.12	20.08	20.01	21	3	
20	64QAM	50	0	20.05	20.05	20.11	19.86	20.01			
20	64QAM	50	25	19.98	19.98	20.11	19.81	19.81			
20	25QAM	1	0	18.07	18.10	18.13	18.02	17.96	19	5	
20	25QAM	1	49	18.07	18.07	18.08	17.86	17.84			
20	25QAM	25	0	18.07	18.07	18.07	17.89	17.82			
20	25QAM	25	12	17.91	18.06	18.02	17.94	18.07			
20	25QAM	25	25	17.88	17.83	18.02	17.84	17.87			
20	25QAM	50	0	18.06	18.06	18.06	17.89	17.89			
Channel											
Frequency (MHz)				39675	40163	40620	41068	41565	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.86	22.97	23.13	23.04	23.16			
5	QPSK	1	12	23.05	23.01	23.14	22.83	23.03	24	00.00	
5	QPSK	1	25	23.01	22.98	23.08	22.91	22.99			
5	QPSK	12	0	22.05	22.05	22.22	22.10	22.13			
5	QPSK	12	7	22.01	22.04	22.14	22.03	21.95	23	1	
5	QPSK	12	25	21.89	21.90	22.01	21.91	21.87			
5	QPSK	25	0	22.14	22.04	22.15	22.07	22.03			
5	16QAM	1	0	21.94	22.02	22.07	21.97	21.91	23	1	
5	16QAM	1	12	21.96	21.90	22.01	21.88	21.87			
5	16QAM	1	25	21.90	21.81	21.95	21.79	21.90			
5	16QAM	12	0	21.04	21.04	21.21	21.06	21.03	21	2	
5	16QAM	12	7	21.08	21.04	21.13	21.01	21.03	22	2	
5	16QAM	12	25	20.93	20.94	21.07	20.88	20.83			
5	64QAM	1	0	20.85	20.84	20.93	20.80	20.85			
5	64QAM	1	12	20.82	20.91	20.91	20.77	20.80	22	2	
5	64QAM	1	25	20.78	20.78	20.81	20.72	20.72			
5	64QAM	12	0	20.10	20.05	20.18	20.09	20.05			
5	64QAM	12	7	19.96	19.97	20.11	20.01	20.03			
5	64QAM	12	25	19.88	19.91	20.05	19.81	19.85			
5	25QAM	1	0	18.08	18.07	18.12	18.04	18.03	19	5	
5	25QAM	1	12	18.12	18.14	18.11	17.94	17.96			
5	25QAM	1	24	18.00	18.01	18.10	18.01	18.03			
5	25QAM	12	0	18.07	18.06	18.13	17.89	17.89			
5	25QAM	12	7	17.96	18.00	18.04	17.84	17.84			
5	25QAM	12	25	17.87	17.92	18.00	17.88	17.94	19	5	



Band 2 Ant1 EC12												
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Turn-up time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	15.41	15.52	15.45			16.5	0		
20	QPSK	1	49	15.35	15.47	15.38						
20	QPSK	1	99	15.34	15.44	15.34						
20	QPSK	50	0	15.29	15.44	15.28			16.5	0		
20	QPSK	50	24	15.43	15.47	15.43						
20	QPSK	50	50	15.27	15.39	15.30						
20	QPSK	100	0	15.24	15.40	15.37			16.5	0		
20	QPSK	100	24	15.28	15.33	15.28						
20	QPSK	1	49	15.19	15.35	15.18			16.5	0		
20	QPSK	1	99	15.21	15.29	15.24						
20	QPSK	50	24	15.30	15.32	15.30			16.5	0		
20	QPSK	50	50	15.09	15.29	15.27						
20	QPSK	100	0	15.27	15.25	15.25			16.5	0		
20	QPSK	100	24	15.15	15.33	15.27						
20	QPSK	1	49	15.14	15.31	15.19			16.5	0		
20	QPSK	1	99	15.23	15.25	15.24						
20	QPSK	50	24	15.18	15.21	15.14			16.5	0		
20	QPSK	50	50	15.11	15.35	15.11						
20	QPSK	100	0	15.14	15.20	15.27			16.5	0		
20	QPSK	1	49	15.48	15.42	15.44						
20	QPSK	1	99	15.35	15.47	15.33			16.5	0		
20	QPSK	50	24	15.48	15.46	15.46						
20	QPSK	50	50	15.19	15.49	15.37			16.5	0		
20	QPSK	100	0	15.43	15.41	15.32						
20	QPSK	100	24	15.43	15.47	15.46			16.5	0		
Channel												
Frequency (MHz)												
15	QPSK	1	0	15.25	15.37	15.46			16.5	0		
15	QPSK	1	37	15.22	15.32	15.35						
15	QPSK	1	74	15.26	15.44	15.16			16.5	0		
15	QPSK	36	0	15.10	15.36	15.15						
15	QPSK	36	39	15.42	15.34	15.35			16.5	0		
15	QPSK	36	39	15.20	15.29	15.12						
15	QPSK	75	0	15.05	15.25	15.03			16.5	0		
15	QPSK	75	0	15.14	15.38	15.11						
15	QPSK	1	37	15.04	15.13	15.05			16.5	0		
15	QPSK	1	74	15.05	15.40	15.45						
15	QPSK	36	20	15.15	15.28	15.19			16.5	0		
15	QPSK	36	20	15.10	15.06	15.16						
15	QPSK	75	0	15.07	15.15	15.06			16.5	0		
15	QPSK	75	0	15.18	15.24	15.10						
15	QPSK	1	37	15.25	15.34	15.37			16.5	0		
15	QPSK	1	74	15.20	15.35	15.19						
15	QPSK	36	20	15.09	15.20	15.23			16.5	0		
15	QPSK	36	20	15.42	15.36	15.10						
15	QPSK	75	0	15.43	15.47	15.43			16.5	0		
Channel												
Frequency (MHz)												
10	QPSK	1	0	15.03	15.18	15.17			16.5	0		
10	QPSK	1	25	15.27	15.43	15.26						
10	QPSK	1	49	15.15	15.38	15.32			16.5	0		
10	QPSK	1	74	15.20	15.36	15.25						
10	QPSK	25	0	15.17	15.32	15.15			16.5	0		
10	QPSK	25	12	15.07	15.33	15.28						
10	QPSK	1	12	15.27	15.27	15.23			16.5	0		
10	QPSK	1	0	15.25	15.35	15.14						
10	QPSK	1	25	15.19	15.31	15.02			16.5	0		
10	QPSK	1	49	15.01	15.26	15.05						
10	QPSK	25	0	15.20	15.19	15.05			16.5	0		
10	QPSK	25	12	15.21	15.07	15.22						
10	QPSK	50	0	15.02	15.29	15.19			16.5	0		
10	QPSK	1	0	15.25	15.40	15.31						
10	QPSK	1	49	15.33	15.45	15.37			16.5	0		
10	QPSK	1	49	15.22	15.37	15.14						
10	QPSK	25	0	15.28	15.29	15.26			16.5	0		
10	QPSK	25	0	15.37	15.25	15.13						
10	QPSK	25	25	15.21	15.26	15.17			16.5	0		
10	QPSK	50	0	15.28	15.34	15.17						
10	QPSK	50	0	15.08	15.31	15.11			16.5	0		
10	QPSK	1	25	15.06	15.11	15.07						
10	QPSK	1	49	15.14	15.40	15.26			16.5	0		
10	QPSK	25	12	15.09	15.34	15.26						
10	QPSK	25	25	15.24	15.36	15.21			16.5	0		
10	QPSK	50	0	15.48	15.30	15.42						
10	QPSK	50	0	15.48	15.30	15.42			16.5	0		
Channel												
Frequency (MHz)												
5	QPSK	1	0	15.23	15.42	15.34			16.5	0		
5	QPSK	1	24	15.33	15.34	15.13						
5	QPSK	12	0	15.28	15.21	15.21			16.5	0		
5	QPSK	12	7	15.48	15.29	15.26						
5	QPSK	12	13	15.01	15.15	15.12			16.5	0		
5	QPSK	12	13	15.11	15.35	15.28						
5	QPSK	1	0	15.48	15.41	15.16			16.5	0		
5	QPSK	1	12	15.36	15.43	15.23						
5	QPSK	12	0	15.24	15.31	15.38			16.5	0		
5	QPSK	12	0	15.45	15.49	15.26						
5	QPSK	25	0	15.35	15.42	15.32			16.5	0		
5	QPSK	25	0	15.22	15.45	15.38						
5	QPSK	25	0	15.28	15.48	15.25			16.5	0		
5	QPSK	25	24	15.28	15.34	15.17						
5	QPSK	12	0	15.14	15.21	15.19			16.5	0		
5	QPSK	12	0	15.34	15.38	15.26						
5	QPSK	25	0	15.30	15.40	15.30			16.5	0		
5	QPSK	25	0	15.17	15.43	15.24						
5	QPSK	1	12	15.48	15.44	15.27			16.5	0		
5	QPSK	1	24	15.31	15.35	15.27						
5	QPSK	12	0	15.30	15.42	15.34			16.5	0		
5	QPSK	12	13	15.43	15.32	15.21						
5	QPSK	25	0	15.43	15.36	15.21			16.5	0		
5	QPSK	25	25	15.43	15.36	15.21						
Channel												
Frequency (MHz)												
3	QPSK	1	0	15.12	15.20	15.03			16.5	0		
3	QPSK	1	8	15.20	15.20	15.04						
3	QPSK	1	14	15.27	15.20	15.05			16.5	0		
3	QPSK	1	25	15.27	15.21	15.03						
3	QPSK	8	4	15.38	15.39	15.40			16.5	0		
3	QPSK	8	7	15.05	15.10	15.30						
3	QPSK	1	0	15.11	15.27	15.32			16.5	0		
3	QPSK	1	8	15.07	15.24	15.14						
3	QPSK	1	14	15.21	15.22	15.03			16.5	0		
3	QPSK	1	25	15.22	15.18	15.05						
3	QPSK	8	4	15.35	15.36	15.37			16.5	0		
3	QPSK	8	7	15.18	15.20	15.21						
3	QPSK	1	0	15.17	15.49	15.41			16.5	0		
3	QPSK	1	8	15.43	15.32	15.27						
3	QPSK	14	0	15.37	15.37	15.29			16.5	0		
3	QPSK	14	0	15.17	15.42	15.24						
3	QPSK	8	4	15.09	15.29	15.29			16.5	0		
3	QPSK	8	7	15.42	15.34	15.34						
3	QPSK	18	0	15.48	15.40	15.34			16.5	0		
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	15.24	15.44	15.39			16.5	0		
1.4	QPSK	1	5	15.29	15.41	15.35						
1.4	QPSK	1	10	15.27	15.32	15.28			16.5	0		
1.4	QPSK	1	15	15.31	15.46	15.41						
1.4	QPSK	3	1	15.34	15.31	15.23			16.5	0		
1.4	QPSK	3	6	15.22	15.38	15.37						
1.4	QPSK	6	0	15.12	15.18	15.21			16.5	0		
1.4	QPSK	6	5	15.27	15.19	15.03						
1.4	QPSK	10	0	15.35	15.35	15.29			16.5	0		
1.4	QPSK	10	5	15.14	15.12	15.07						
1.4	QPSK	30	0	15.21	15.21	15.00			16.5	0		
1.4	QPSK	30	5	15.17	15.24	15.29						
1.4	QPSK	60	0	15.19	15.25	15.16			16.5	0		
1.4	QPSK	60	5	15.11	15.20	15.06						
1.4	QPSK	120	0	15.11	15.22	15.15			16.5	0		
1.4	QPSK	120	5	15.09	15.14	15.15						
1.4	QPSK	30	0	15.08	15.14	15.14			16.5	0		
1.4	QPSK	30	5	15.00	15.07	15.09						
1.4	QPSK	60	0	15.22	15.42	15.24			16.5	0		
1.4	QPSK	60	5	15.30	15.47	15.28						
1.4	QPSK	120	0	15.14	15.42	15.25			16.5	0		
1.4	QPSK	120	5	15.30	15.31	15.29						
1.4	QPSK	30	0	15.30	15.42	15.25			16.5	0		
1.4	QPSK	30	5	15.22	15.33	15.34						
1.4	QPSK	60	0	15.28	15.36	15.34			16.5	0		
1.4	QPSK	60	5	15.33	15.27	15.27						

Band 12 Ant1 EC12														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dB)	MPR (dB)						
Channel														
Frequency [MHz]														
10	QPSK	1	0	20.16	20.19	20.12	21	0						
10	QPSK	1	25	20.03	20.13	20.05								
10	QPSK	1	49	20.00	20.03	19.91								
10	QPSK	25	0	20.00	20.09	19.94								
10	QPSK	25	12	19.88	19.90	19.83	21	0						
10	QPSK	25	25	19.87	20.00	19.87								
10	QPSK	50	0	19.88	20.03	19.83								
10	16QAM	1	0	19.89	19.90	19.87								
10	16QAM	1	25	19.88	19.97	19.85	21	0						
10	16QAM	1	49	19.88	19.86	19.80								
10	16QAM	25	0	19.83	19.86	19.79								
10	16QAM	25	12	19.88	19.94	19.80								
10	16QAM	25	25	19.74	19.89	19.76	21	0						
10	16QAM	50	0	19.80	19.91	19.77								
10	64QAM	1	0	19.88	19.96	19.91								
10	64QAM	1	25	19.84	19.94	19.85	21	0						
10	64QAM	1	49	19.91	19.96	19.88								
10	64QAM	25	0	19.92	19.91	19.79								
10	64QAM	25	12	19.89	19.85	19.83								
10	64QAM	25	25	19.86	19.79	19.68	21	0						
10	64QAM	50	0	19.86	19.89	19.80								
10	256QAM	1	25	19.91	19.94	19.59								
10	256QAM	1	49	19.79	19.84	19.74								
10	256QAM	25	0	19.87	19.87	19.74	19	2						
10	256QAM	25	12	17.82	19.01	17.84								
10	256QAM	25	25	17.78	17.83	17.61								
10	256QAM	25	25	17.66	17.79	17.58								
10	256QAM	50	0	20.05	20.06	20.00								
Channel														
Frequency [MHz]														
5	QPSK	1	0	20.14	20.13	20.09	21	0						
5	QPSK	1	12	19.97	20.12	19.87								
5	QPSK	1	24	19.94	19.93	19.77								
5	QPSK	12	0	19.91	20.07	19.80								
5	QPSK	12	7	19.87	19.84	19.79	21	0						
5	QPSK	12	13	19.71	19.86	19.71								
5	QPSK	25	0	19.82	19.86	19.84								
5	16QAM	1	0	19.80	19.89	19.73								
5	16QAM	1	12	19.82	19.94	19.77	21	0						
5	16QAM	1	24	19.69	19.82	19.52								
5	16QAM	12	0	19.74	19.80	19.69								
5	16QAM	12	7	19.72	19.81	19.68								
5	16QAM	12	7	19.69	19.82	19.75	21	0						
5	16QAM	25	0	19.67	19.74	19.62								
5	64QAM	1	0	19.73	19.85	19.72								
5	64QAM	1	24	19.76	19.84	19.71								
5	64QAM	1	24	19.76	19.92	19.74	21	0						
5	64QAM	12	0	19.83	19.81	19.65								
5	64QAM	12	7	19.85	19.82	19.67								
5	64QAM	12	13	19.59	19.92	19.52								
5	64QAM	25	0	19.80	19.83	19.74	19	2						
5	256QAM	1	0	19.79	19.84	19.84								
5	256QAM	1	12	17.92	18.13	17.92								
5	256QAM	1	24	17.80	17.89	17.81								
5	256QAM	12	0	17.86	17.92	17.81	19	2						
5	256QAM	12	7	17.77	17.78	17.59								
5	256QAM	12	13	17.56	17.78	17.63								
5	256QAM	25	0	17.62	17.64	17.54								
Channel														
Frequency [MHz]														
3	QPSK	1	0	20.01	20.13	20.04	21	0						
3	QPSK	1	14	19.95	19.83	19.78								
3	QPSK	8	0	19.86	19.89	19.84								
3	QPSK	8	7	19.87	19.88	19.87								
3	QPSK	16	0	19.84	19.89	19.83	21	0						
3	16QAM	1	0	19.80	19.89	19.81								
3	16QAM	1	8	19.84	19.87	19.78								
3	16QAM	1	8	19.79	19.84	19.81								
3	16QAM	8	0	19.69	19.80	19.71	21	0						
3	16QAM	8	4	19.81	19.83	19.65								
3	16QAM	16	0	19.68	19.70	19.74								
3	64QAM	1	0	19.69	19.80	19.80								
3	64QAM	1	8	19.63	19.75	19.76	21	0						
3	64QAM	1	14	19.66	19.90	19.69								
3	64QAM	8	0	19.93	19.83	19.76								
3	64QAM	8	4	19.78	19.75	19.44								
3	64QAM	8	7	19.58	19.70	19.57	19	2						
3	64QAM	16	0	19.83	19.73	19.69								
3	256QAM	1	0	19.01	19.00	17.04								
3	256QAM	1	8	18.03	18.10	18.04								
3	256QAM	1	14	18.03	18.12	18.03	19	2						
3	256QAM	1	14	17.86	17.93	17.81								
3	256QAM	8	0	17.63	17.70	17.67								
3	256QAM	8	4	17.66	17.69	17.71								
3	256QAM	8	7	17.60	17.74	17.63	19	2						
3	256QAM	16	0	17.52	17.63	17.54								
Channel														
Frequency [MHz]														
1.4	QPSK	1	0	20.03	20.07	19.94	21	0						
1.4	QPSK	1	3	19.98	20.09	19.90								
1.4	QPSK	1	5	19.99	19.86	19.72								
1.4	QPSK	3	0	19.84	20.03	19.88								
1.4	QPSK	3	1	19.86	19.70	19.77	21	0						
1.4	QPSK	3	3	19.83	19.91	19.70								
1.4	QPSK	6	0	19.98	20.01	19.81								
1.4	16QAM	1	0	19.74	19.89	19.75								
1.4	16QAM	1	3	19.75	19.86	19.67	21	0						
1.4	16QAM	1	6	19.70	19.80	19.67								
1.4	16QAM	3	0	19.82	19.78	19.81								
1.4	16QAM	3	1	19.69	19.83	19.76								
1.4	16QAM	3	3	19.68	19.80	19.63	21	0						
1.4	16QAM	6	0	19.63	19.81	19.58								
1.4	64QAM	1	0	19.72	19.82	19.86								
1.4	64QAM	1	3	19.81	19.84	19.73								
1.4	64QAM	1	5	19.78	19.90	19.74	21	0						
1.4	64QAM	3	0	19.80	19.75	19.74								
1.4	64QAM	3	3	19.81	19.75	19.44								
1.4	64QAM	3	3	19.48	19.72	19.63								
1.4	64QAM	6	0	19.86	19.75	19.71	21	0						
1.4	256QAM	1	0	17.89	18.06	18.08								
1.4	256QAM	1	3	17.92	18.00	18.05								
1.4	256QAM	1	5	17.79	18.05	17.94								
1.4	256QAM	3	0	17.63	17.86	17.72	19	2						
1.4	256QAM	3	1	17.74	17.69	17.62								
1.4	256QAM	3	3	17.57	17.99	17.69								
1.4	256QAM	6	0	17.65	17.78	17.61								

Band 13 Ant1 EC12										
BW [MHz]	Modulation	RB Size	RB Offset	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Time slot [dBm]	MPR [dB]	
Client										
Frequency (MHz)										
10	QPSK	1	0	21.47	21.47	21.47	21.47			
10	QPSK	1	25	21.36	21.36	21.36	21.36	22	0	
10	QPSK	1	50	21.25	21.25	21.25	21.25			
10	QPSK	25	0	21.40	21.40	21.40	21.40			
10	QPSK	25	12	21.29	21.29	21.29	21.29	22	0	
10	QPSK	25	25	21.28	21.28	21.28	21.28			
10	16QAM	1	0	21.31	21.31	21.31	21.31			
10	16QAM	1	25	21.42	21.42	21.42	21.42	22	0	
10	16QAM	1	50	21.38	21.38	21.38	21.38			
10	16QAM	1	49	21.19	21.19	21.19	21.19			
10	16QAM	25	0	21.37	21.37	21.37	21.37			
10	16QAM	25	12	21.20	21.20	21.20	21.20	22	0	
10	16QAM	25	25	21.23	21.23	21.23	21.23			
10	16QAM	50	0	21.32	21.32	21.32	21.32			
10	16QAM	50	25	21.40	21.40	21.40	21.40	22	0	
10	64QAM	1	26	21.38	21.38	21.38	21.38			
10	64QAM	1	49	21.35	21.35	21.35	21.35			
10	64QAM	25	12	21.43	21.43	21.43	21.43	21	1	
10	64QAM	25	25	20.93	20.93	20.93	20.93			
10	64QAM	25	50	20.91	20.91	20.91	20.91			
10	256QAM	1	0	18.68	18.68	18.68	18.68			
10	256QAM	1	25	18.83	18.83	18.83	18.83	19	3	
10	256QAM	1	50	19.86	19.86	19.86	19.86			
10	256QAM	25	0	18.48	18.48	18.48	18.48			
10	256QAM	25	12	18.43	18.43	18.43	18.43	19	3	
10	256QAM	25	25	18.43	18.43	18.43	18.43			
10	256QAM	50	0	18.58	18.58	18.58	18.58			
Server										
Frequency (MHz)										
5	QPSK	1	0	21.34	21.44	21.44	21.44	Time slot [dBm]	MPR [dB]	
5	QPSK	1	12	21.13	21.21	21.19	21.19	22	0	
5	QPSK	1	24	21.18	21.30	21.25	21.25			
5	QPSK	12	0	21.17	21.26	21.17	21.17			
5	QPSK	12	7	21.10	21.23	21.18	21.18	22	0	
5	QPSK	12	14	20.96	21.13	21.03	21.03			
5	QPSK	25	0	21.11	21.23	21.12	21.12			
5	16QAM	1	0	21.19	21.31	21.21	21.21			
5	16QAM	1	24	21.24	21.36	21.24	21.24	22	0	
5	16QAM	12	0	21.18	21.26	21.20	21.20			
5	16QAM	12	7	21.01	21.14	21.11	21.11	22	0	
5	16QAM	12	13	21.12	21.16	21.05	21.05			
5	16QAM	25	0	21.14	21.28	21.17	21.17			
5	16QAM	25	12	21.20	21.33	21.20	21.20	22	0	
5	64QAM	1	12	21.15	21.28	21.17	21.17			
5	64QAM	1	24	21.05	21.14	21.05	21.05			
5	64QAM	12	7	20.99	21.10	20.94	20.94	21	1	
5	64QAM	12	7	20.29	20.30	20.28	20.28			
5	64QAM	12	13	20.22	20.29	20.26	20.26			
5	256QAM	1	0	18.63	18.68	18.64	18.64			
5	256QAM	1	0	18.64	18.68	18.63	18.63			
5	256QAM	1	12	18.48	18.49	18.53	18.53	19	3	
5	256QAM	1	24	18.43	18.52	18.47	18.47			
5	256QAM	12	12	18.41	18.43	18.34	18.34			
5	256QAM	12	7	18.38	18.39	18.31	18.31	19	3	
5	256QAM	12	13	18.31	18.32	18.50	18.50			
5	256QAM	25	0	18.42	18.50	18.49	18.49			

Band 25 Ant1 EC12														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	16.39	16.68	16.45	16.5	0						
20	QPSK	1	49	16.05	16.36	16.26								
20	QPSK	1	99	16.29	16.49	16.51	16.5	0						
20	QPSK	50	0	16.35	16.63	16.43								
20	QPSK	50	24	16.61	16.60	16.39	16.5	0						
20	QPSK	50	50	16.39	16.50	16.31								
20	QPSK	100	0	16.31	16.47	16.36	16.5	0						
20	16QAM	100	0	16.41	16.45	16.32								
20	16QAM	1	49	16.32	16.55	16.15	16.5	0						
20	16QAM	1	99	16.21	16.55	16.29								
20	16QAM	50	0	16.33	16.34	16.44	16.5	0						
20	16QAM	50	24	16.41	16.32	16.47								
20	16QAM	50	50	16.35	16.34	16.44	16.5	0						
20	16QAM	100	0	16.25	16.57	16.44								
20	256QAM	1	49	16.42	16.31	16.37	16.5	0						
20	256QAM	1	99	16.21	16.41	16.29								
20	256QAM	50	0	16.30	16.32	16.28	16.5	0						
20	256QAM	50	24	16.05	16.07	16.29								
20	256QAM	50	50	16.21	16.27	16.41	16.5	0						
20	256QAM	100	0	16.45	16.45	16.33								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.18	16.50	16.24	16.5	0						
16	QPSK	1	37	16.05	16.30	16.25								
16	QPSK	1	74	16.26	16.43	16.36	16.5	0						
16	QPSK	36	0	16.21	16.57	16.24								
16	QPSK	36	25	16.50	16.54	16.19	16.5	0						
16	QPSK	36	39	16.26	16.43	16.26								
16	QPSK	75	0	16.27	16.44	16.17	16.5	0						
16	16QAM	1	0	16.32	16.41	16.26								
16	16QAM	1	37	16.14	16.44	16.19	16.5	0						
16	16QAM	1	74	16.16	16.44	16.16								
16	16QAM	36	0	16.34	16.22	16.11	16.5	0						
16	16QAM	36	25	16.20	16.28	16.12								
16	16QAM	36	39	16.22	16.33	16.15	16.5	0						
16	84QAM	1	0	16.14	16.43	16.27								
16	84QAM	1	37	16.11	16.48	16.24	16.5	0						
16	84QAM	1	74	16.41	16.45	16.36								
16	84QAM	36	0	16.12	16.29	16.12	16.5	0						
16	84QAM	36	25	16.24	16.24	16.21								
16	84QAM	36	39	16.33	16.13	16.20	16.5	0						
16	84QAM	75	0	16.24	16.36	16.36								
16	256QAM	1	49	16.30	16.33	16.25	16.5	0						
16	256QAM	1	99	16.26	16.12	16.39								
16	256QAM	1	74	16.06	16.20	16.18	16.5	0						
16	256QAM	36	0	16.21	16.22	16.28								
16	256QAM	36	25	16.07	16.05	16.10	16.5	0						
16	256QAM	36	39	16.06	16.17	16.34								
16	256QAM	75	0	16.17	16.17	16.26	16.5	0						
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.09	16.34	16.26	16.5	0						
16	QPSK	1	25	16.46	16.28	16.23								
16	QPSK	1	49	16.23	16.29	16.34	16.5	0						
16	QPSK	12	0	16.14	16.44	16.43								
16	QPSK	25	12	16.62	16.41	16.30	16.5	0						
16	QPSK	25	25	16.28	16.44	16.29								
16	16QAM	1	0	16.14	16.36	16.25	16.5	0						
16	16QAM	1	0	16.24	16.24	16.22								
16	16QAM	1	26	16.16	16.38	16.07	16.5	0						
16	16QAM	1	49	16.12	16.35	16.07								
16	16QAM	25	0	16.25	16.29	16.09	16.5	0						
16	16QAM	25	12	16.10	16.33	16.31								
16	16QAM	36	0	16.06	16.36	16.06	16.5	0						
16	16QAM	50	0	16.25	16.29	16.27								
16	84QAM	1	0	16.09	16.29	16.26	16.5	0						
16	84QAM	1	24	16.03	16.48	16.35								
16	84QAM	1	49	16.29	16.29	16.21	16.5	0						
16	84QAM	25	0	16.18	16.37	16.23								
16	84QAM	25	12	16.38	16.16	16.21	16.5	0						
16	84QAM	25	25	16.38	16.29	16.49								
16	84QAM	50	0	16.21	16.65	16.49	16.5	0						
16	256QAM	1	49	16.37	16.35	16.39								
16	256QAM	1	26	16.47	16.30	16.26	16.5	0						
16	256QAM	1	49	16.33	16.30	16.31								
16	256QAM	25	0	16.40	16.36	16.29	16.5	0						
16	256QAM	25	12	16.04	16.16	16.26								
16	256QAM	25	25	16.25	16.30	16.50	16.5	0						
16	256QAM	50	0	16.43	16.57	16.34								
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.25	16.55	16.27	16.5	0						
5	QPSK	1	12	16.35	16.21	16.20								
5	QPSK	1	24	16.25	16.29	16.45	16.5	0						
5	QPSK	12	0	16.21	16.55	16.31								
5	QPSK	12	7	16.48	16.55	16.39	16.5	0						
5	QPSK	12	13	16.22	16.49	16.23								
5	QPSK	26	0	16.08	16.37	16.31	16.5	0						
5	16QAM	1	0	16.41	16.39	16.23								
5	16QAM	1	12	16.21	16.38	16.12	16.5	0						
5	16QAM	1	24	16.11	16.35	16.25								
5	16QAM	12	0	16.34	16.24	16.06	16.5	0						
5	16QAM	12	7	16.06	16.15	16.17								
5	16QAM	12	13	16.19	16.25	16.06	16.5	0						
5	16QAM	25	0	16.15	16.31	16.14								
5	84QAM	1	0	16.21	16.31	16.12	16.5	0						
5	84QAM	1	12	16.01	16.36	16.16								
5	84QAM	1	24	16.28	16.47	16.16	16.5	0						
5	84QAM	12	0	16.13	16.43	16.16								
5	84QAM	12	7	16.31	16.34	16.47	16.5	0						
5	84QAM	12	13	16.29	16.30	16.39								
5	84QAM	26	0	16.28	16.62	16.48	16.5	0						
Channel														
Frequency (MHz)														
3	QPSK	1	0	16.27	16.59	16.28	16.5	0						
3	QPSK	1	8	16.47	16.18	16.15								
3	QPSK	1	16	16.28	16.33	16.49	16.5	0						
3	QPSK	8	0	16.17	16.41	16.31								
3	QPSK	8	4	16.51	16.59	16.13	16.5	0						
3	QPSK	8	12	16.22	16.48	16.19								
3	QPSK	16	0	16.29	16.43	16.30	16.5	0						
3	16QAM	1	0	16.31	16.36	16.19								
3	16QAM	1	8	16.16	16.46	16.14	16.5	0						
3	16QAM	1	16	16.11	16.25	16.14								
3	16QAM	1	14	16.03	16.40	16.09	16.5	0						
3	16QAM	8	0	16.37	16.28	16.32								
3	16QAM	8	4	16.41	16.41	16.21	16.5	0						
3	16QAM	8	7	16.08	16.10	16.24								
3	16QAM	16	0	16.40	16.35	16.22	16.5	0						
3	16QAM	16	1	16.17	16.37	16.31								
3	84QAM	1	8	16.04	16.38	16.03	16.5	0						
3	84QAM	1	16	16.50	16.28	16.10								
3	84QAM	8	0	16.15	16.36	16.10	16.5	0						
3	84QAM	8	4	16.20	16.30	16.43								
3	84QAM	8	12	16.42	16.42	16.40	16.5	0						
3	84QAM	16	0	16.34	16.64	16.15								
3	256QAM	1	0	16.28	16.40	16.28	16.5	0						
3	256QAM	1	8	16.41	16.41	16.29								
3	256QAM	1	14	16.31	16.44	16.24	16.5	0						
3	256QAM	8	0	16.32	16.43	16.19								
3	256QAM	8	4	16.16	16.40	16.19	16.5	0						
3	256QAM	8	7	16.11	16.21	16.46								
3	256QAM	16	0	16.56	16.51	16.20	16.5	0						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	16.48	16.67	16.34					16.5	0		
1.4	QPSK	1	0	16.29	16.33	16.29								
1.4	QPSK	1	5	16.23	16.57	16.40	16.5	0						
1.4	QPSK	3	0	16.44	16.51	16.34								
1.4	QPSK	3	3	16.51	16.48	16.35	16.5	0						
1.4	QPSK	3	6	16.47	16.50	16.40								
1.4	QPSK	6	0	16.31	16.57	16.36	16.5	0						
1.4	QPSK	6	3	16.48	16.52	16.40								
1.4	16QAM	1	0	16.28	16.47	16.14	16.5	0						
1.4	16QAM	1	5	16.19	16.55	16.30								
1.4	16QAM	1	10	16.24	16.34	16.07	16.5	0						
1.4	16QAM	1	15	16.11	16.25	16.10								
1.4	16QAM	3	0	16.17	16.28	16.32	16.5	0						
1.4	16QAM	3	3	16.41	16.41	16.21								
1.4	16QAM	3	6	16.19	16.36	16.18	16.5	0						
1.4	16QAM	6	0	16.32	16.48	16.22								
1.4	84QAM	1	0	16.12	16.43	16.20	16.5	0						
1.4	84QAM	1	0	16.02	16.43	16.29								
1.4	84QAM	3	0	16.20	16.55	16.48	16.5	0						
1.4	84QAM	3	3	16.33	16.33	16.29								
1.4	84QAM	3	6	16.52	16.22	16.50	16.5	0						
1.4	84QAM	6	0	16.19	16.29	16.41								
1.4	256QAM	1	0	16.44	16.38	16.38	16.5	0						
1.4	256QAM	1	1	16.12	16.18	16.20								
1.4	256QAM	3	0	16.13	16.21	16.37	16.5	0						
1.4	256QAM													

Band 66 Ant1 EC12														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up (ms)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	15.03	15.03	15.03	16	0						
20	QPSK	1	49	14.83	14.87	14.86								
20	QPSK	1	99	14.80	14.91	14.85								
20	QPSK	50	0	14.90	15.07	15.00								
20	QPSK	50	24	14.84	14.98	14.98								
20	QPSK	50	50	14.83	14.99	14.97	16	0						
20	16QAM	1	0	14.83	14.99	14.93								
20	16QAM	1	49	15.00	14.87	14.82								
20	16QAM	1	99	14.90	14.86	14.82								
20	16QAM	50	0	14.87	14.99	14.96								
20	16QAM	50	24	14.91	14.91	14.91	16	0						
20	16QAM	50	50	14.98	15.01	14.94								
20	16QAM	100	0	14.87	15.00	14.90								
20	64QAM	1	0	14.80	15.00	14.94								
20	64QAM	1	49	14.92	15.04	14.97								
20	64QAM	1	99	14.90	15.00	15.00	16	0						
20	64QAM	50	0	14.93	14.94	14.93								
20	64QAM	50	24	14.81	14.93	14.89								
20	64QAM	50	50	14.97	14.95	15.03								
20	64QAM	100	0	14.88	14.95	14.89								
20	256QAM	1	49	14.85	15.07	14.94	16	0						
20	256QAM	1	49	14.85	14.93	14.83								
20	256QAM	1	99	14.87	14.91	14.98								
20	256QAM	50	0	14.83	15.05	14.96								
20	256QAM	50	24	14.95	15.04	14.96								
20	256QAM	50	50	14.84	15.03	15.02	16	0						
20	256QAM	100	0	14.88	14.95	14.90								
Channel														
Frequency (MHz)														
15	QPSK	1	0	17.17	17.45	17.72			16	0				
15	QPSK	1	37	14.79	14.79	14.82								
15	QPSK	1	74	14.65	14.83	14.80								
15	QPSK	36	0	14.80	14.94	14.87								
15	QPSK	36	36	14.71	14.86	14.81								
15	QPSK	36	39	14.77	14.91	14.92	16	0						
15	QPSK	75	0	14.73	14.91	14.83								
15	16QAM	1	0	14.78	14.87	14.88								
15	16QAM	1	37	14.73	14.77	14.70								
15	16QAM	1	74	14.78	14.89	14.72								
15	16QAM	36	0	14.90	14.90	14.87	16	0						
15	16QAM	36	39	14.77	14.82	14.82								
15	16QAM	75	0	14.80	14.94	14.78								
15	64QAM	1	0	14.77	15.02	14.86								
15	64QAM	1	37	14.80	14.95	14.87								
15	64QAM	1	74	14.94	14.92	14.87	16	0						
15	64QAM	36	0	14.82	14.82	14.79								
15	64QAM	36	39	14.80	14.85	14.78								
15	64QAM	36	39	15.02	14.95	14.89								
15	64QAM	75	0	14.76	14.81	14.74								
15	256QAM	1	0	14.70	14.95	14.74	16	0						
15	256QAM	1	37	14.78	14.87	14.74								
15	256QAM	1	74	14.82	14.83	14.86								
15	256QAM	36	0	14.86	15.01	14.86								
15	256QAM	36	39	14.89	14.95	14.85								
15	256QAM	36	39	14.77	14.88	14.86	16	0						
15	256QAM	75	0	14.87	14.83	14.78								
Channel														
Frequency (MHz)														
10	QPSK	1	0	16.55	16.94	16.94	16	0						
10	QPSK	1	25	14.72	14.74	14.74								
10	QPSK	1	49	14.74	14.82	14.76								
10	QPSK	25	0	14.80	14.90	14.86								
10	QPSK	25	12	14.76	14.90	14.85								
10	QPSK	25	25	14.79	14.80	14.88	16	0						
10	16QAM	1	0	14.75	14.86	14.81								
10	16QAM	1	0	14.73	14.93	14.89								
10	16QAM	1	25	14.89	14.83	14.73								
10	16QAM	1	49	14.86	14.86	14.76								
10	16QAM	25	0	14.94	14.90	14.83	16	0						
10	16QAM	25	12	14.87	14.78	14.83								
10	16QAM	25	12	14.95	14.86	15.00								
10	16QAM	50	0	14.84	14.97	14.79								
10	64QAM	1	0	14.72	15.03	14.89								
10	64QAM	1	25	14.82	14.95	14.92	16	0						
10	64QAM	1	49	14.93	14.95	14.94								
10	64QAM	25	0	14.81	14.91	14.85								
10	64QAM	25	12	14.70	14.82	14.84								
10	64QAM	25	25	14.87	14.89	14.92								
10	64QAM	50	0	14.75	14.90	14.79	16	0						
10	256QAM	1	49	14.87	14.85	14.71								
10	256QAM	1	25	14.79	14.82	14.75								
10	256QAM	25	0	14.65	15.07	14.87								
10	256QAM	25	12	14.81	14.91	14.85								
10	256QAM	25	25	14.75	14.93	14.87	16	0						
10	256QAM	25	25	14.75	14.93	14.87								
10	256QAM	50	0	14.90	14.82	14.76								
Channel														
Frequency (MHz)														
5	QPSK	1	0	14.53	14.97	14.74	16	0						
5	QPSK	1	12	14.78	14.72	14.71								
5	QPSK	1	24	14.75	14.86	14.76								
5	QPSK	12	0	14.76	14.87	14.87								
5	QPSK	12	7	14.78	14.94	14.85								
5	QPSK	12	13	14.70	14.83	14.85	16	0						
5	QPSK	25	0	14.71	14.87	14.78								
5	16QAM	1	0	14.77	14.89	14.89								
5	16QAM	1	12	14.92	14.76	14.87								
5	16QAM	1	24	14.81	14.85	14.70								
5	16QAM	12	0	14.91	14.90	14.92	16	0						
5	16QAM	12	7	14.77	14.80	14.81								
5	16QAM	12	14	14.88	14.94	14.95								
5	16QAM	25	0	14.78	14.94	14.90								
5	64QAM	1	0	14.71	14.94	14.81								
5	64QAM	1	12	14.80	15.00	14.93	16	0						
5	64QAM	1	24	14.88	14.87	14.94								
5	64QAM	12	0	14.68	14.87	14.85								
5	64QAM	12	13	14.84	14.82	14.95								
5	64QAM	25	0	14.82	14.90	14.81								
5	256QAM	1	0	14.85	14.96	14.79	16	0						
5	256QAM	1	12	14.81	14.92	14.72								
5	256QAM	1	24	14.79	14.77	14.93								
5	256QAM	12	0	14.81	14.90	14.83								
5	256QAM	12	7	14.91	14.95	14.89								
5	256QAM	12	13	14.70	14.85	14.84	16	0						
5	256QAM	25	0	14.88	14.81	14.77								
5	256QAM	25	12	14.85	14.93	14.87								
5	256QAM	25	25	14.75	14.93	14.87								
5	256QAM	50	0	14.90	14.82	14.76								
Channel														
Frequency (MHz)														
3	QPSK	1	0	16.94	16.98	16.98	16	0						
3	QPSK	1	12	14.78	14.78	14.78								
3	QPSK	1	14	14.73	14.78	14.71								
3	QPSK	8	0	14.83	14.88	14.88								
3	QPSK	8	7	14.73	14.85	14.83								
3	QPSK	8	7	14.77	14.95	14.92	16	0						
3	QPSK	16	0	14.78	14.89	14.83								
3	16QAM	1	0	14.68	14.88	14.81								
3	16QAM	1	8	14.50	14.78	14.78								
3	16QAM	1	14	14.85	14.95	14.72								
3	16QAM	8	0	14.82	14.88	14.88	16	0						
3	16QAM	8	4	14.77	14.78	14.78								
3	16QAM	8	8	14.93	14.88	14.88								
3	16QAM	8	8	14.91	14.88	14.88								
3	16QAM	8	7	14.76	14.91	14.81								
3	16QAM	1	8	14.79	14.89	14.89	16	0						
3	16QAM	1	8	14.88	14.93	14.94								
3	16QAM	8	4	14.69	14.78	14.74								
3	16QAM	8	4	14.72	14.84	14.79								
3	16QAM	8	8	14.86	14.87	14.83								
3	16QAM	16	0	14.80	14.87	14.84	16	0						
3	16QAM	16	0	14.83	14.96	14.71								
3	16QAM	16	8	14.82	14.89	14.81								
3	16QAM	16	8	14.76	14.82	14.80								
3	16QAM	16	8	14.76	14.86	14.86								
3	16QAM	8	4	14.91	14.98	14.84	16	0						
3	16QAM	8	7	14.78	14.82	14.80								
3	16QAM	8	7	14.80	14.82	14.82								
3	16QAM	8	7	14.75	14.85	14.79								
3	16QAM	8	7	14.78	14.82	14.80								
3	16QAM	1	8	14.75	14.85	14.85	16	0						
3	16QAM	1	8	14.86	14.79	14.77								
3	16QAM	1	8	14.82	14.87	14.73								
3	16QAM	1	8	14.86	14.96	14.85								
3	16QAM	1	8	14.79	14.84	14.88								
3	16QAM	1	8	14.88	14.88	14.84	16	0						
3	16QAM	1	8	14.77	14.86	14.85								
3	16QAM	1	8	14.75	15.01	14.81								
3	16QAM	1	8	14.84	14.92	14.87								
3	16QAM	1	8	14.94	14.92	14.92								
3	16QAM	3	0	14.80	14.83	14.83	16	0						
3	16QAM	3	0	14.72	14.84	14.79								
3	16QAM	3	0	14.86	14.87	14.87								
3	16QAM	3	0	14.78	14.82	14.81								
3	16QAM	3	0	14.89	14.89	14.71								
3	16QAM	3	0	14.78	14.81	14.79	16	0						
3	16QAM	3	0	14.79	14.86	14.80								
3	16QAM	3	0	14.83	14.91	14.84								
3	16QAM	3	0	14.90	14.93	14.84								
3	16QAM	3	0	14.84	14.96	14.84								



Band 38 Ant1 EC12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37965	38050	38150			
				217.5	16.75	16.81			
20	QPSK	1	0	16.74	16.75	16.83	17.4	0	
20	QPSK	1	49	16.59	16.63	16.65			
20	QPSK	1	99	16.45	16.70	16.58			
20	QPSK	50	0	16.44	16.70	16.64			
20	QPSK	50	24	16.39	16.59	16.43	17.4	0	
20	QPSK	50	50	16.48	16.55	16.45			
20	QPSK	100	0	16.49	16.73	16.55			
20	QPSK	100	1	16.50	16.72	16.63			
20	HQAM	1	49	16.48	16.55	16.45	17.4	0	
20	HQAM	1	99	16.43	16.37	16.40			
20	HQAM	50	24	16.50	16.52	16.46			
20	HQAM	50	50	16.39	16.59	16.39			
20	HQAM	100	0	16.38	16.53	16.44	17.4	0	
20	HQAM	100	1	16.36	16.52	16.44			
20	BAGAM	1	0	16.38	16.54	16.43			
20	BAGAM	1	49	16.38	16.59	16.42			
20	BAGAM	1	99	16.45	16.47	16.55	17.4	0	
20	BAGAM	50	0	16.38	16.46	16.40			
20	BAGAM	50	24	16.45	16.55	16.46			
20	BAGAM	50	50	16.51	16.55	16.45			
20	BAGAM	100	0	16.38	16.51	16.47	17.4	0	
20	BAGAM	100	1	16.39	16.51	16.47			
20	BAGAM	100	1	16.39	16.51	16.47			
20	BAGAM	100	1	16.39	16.51	16.47			
20	255QAM	1	0	16.39	16.51	16.47	17.4	0	
20	255QAM	1	49	16.52	16.53	16.51			
20	255QAM	1	99	16.56	16.44	16.43			
20	255QAM	50	0	16.52	16.53	16.51			
20	255QAM	50	24	16.35	16.39	16.35	17.4	0	
20	255QAM	50	50	16.34	16.45	16.41			
20	255QAM	100	0	16.34	16.45	16.41			
20	255QAM	100	0	16.34	16.45	16.41			
Channel									
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MPR (dB)	
				217.5	16.75	16.72			
15	QPSK	1	0	16.46	16.70	16.63	17.4	0	
15	QPSK	1	37	16.57	16.76	16.54			
15	QPSK	1	74	16.58	16.57	16.47			
15	QPSK	36	0	16.51	16.67	16.51			
15	QPSK	36	20	16.44	16.62	16.43	17.4	0	
15	QPSK	36	39	16.50	16.59	16.49			
15	QPSK	75	0	16.49	16.57	16.58			
15	HQAM	1	0	16.56	16.63	16.59	17.4	0	
15	HQAM	1	37	16.45	16.63	16.45			
15	HQAM	1	74	16.34	16.52	16.44			
15	HQAM	36	0	16.48	16.56	16.33			
15	HQAM	36	20	16.57	16.59	16.35	17.4	0	
15	HQAM	36	39	16.40	16.58	16.46			
15	HQAM	75	0	16.46	16.65	16.40			
15	HQAM	75	0	16.40	16.58	16.39			
15	BAGAM	1	37	16.38	16.43	16.40	17.4	0	
15	BAGAM	1	74	16.39	16.59	16.37			
15	BAGAM	36	0	16.50	16.55	16.36			
15	BAGAM	36	20	16.45	16.46	16.41			
15	255QAM	1	0	16.48	16.52	16.53	17.4	0	
15	255QAM	1	0	16.50	16.70	16.50			
15	255QAM	1	37	16.50	16.51	16.49			
15	255QAM	1	74	16.53	16.53	16.40			
15	255QAM	36	0	16.47	16.52	16.34	17.4	0	
15	255QAM	36	20	16.50	16.50	16.34			
15	255QAM	36	39	16.44	16.57	16.30			
15	255QAM	75	0	16.51	16.54	16.40			
Channel									
Frequency (MHz)				37905	38050	38225	Tune-up limit (dBm)	MPR (dB)	
				217.5	16.75	16.61			
10	QPSK	1	0	16.44	16.73	16.43	17.4	0	
10	QPSK	1	25	16.58	16.63	16.45			
10	QPSK	1	49	16.50	16.74	16.46			
10	QPSK	25	0	16.53	16.63	16.45			
10	QPSK	25	12	16.54	16.51	16.56	17.4	0	
10	QPSK	25	25	16.52	16.56	16.51			
10	HQAM	1	0	16.55	16.57	16.50			
10	HQAM	1	0	16.55	16.57	16.50			
10	HQAM	1	25	16.46	16.43	16.31	17.4	0	
10	HQAM	1	49	16.34	16.39	16.31			
10	HQAM	25	0	16.45	16.39	16.39			
10	HQAM	25	0	16.45	16.39	16.39			
10	BAGAM	1	0	16.47	16.45	16.33	17.4	0	
10	BAGAM	1	25	16.47	16.43	16.31			
10	BAGAM	25	0	16.37	16.45	16.48			
10	BAGAM	25	0	16.37	16.45	16.48			
10	255QAM	1	0	16.48	16.58	16.42	17.4	0	
10	255QAM	1	25	16.48	16.60	16.41			
10	255QAM	25	12	16.41	16.55	16.40			
10	255QAM	25	12	16.41	16.55	16.40			
10	255QAM	25	25	16.45	16.53	16.42	17.4	0	
10	255QAM	25	25	16.45	16.53	16.42			
10	255QAM	50	0	16.34	16.47	16.40			
10	255QAM	50	0	16.34	16.47	16.40			
Channel									
Frequency (MHz)				37775	38050	38255	Tune-up limit (dBm)	MPR (dB)	
				217.5	2559	217.5			
5	QPSK	1	0	16.43	16.58	16.59	17.4	0	
5	QPSK	1	12	16.50	16.72	16.55			
5	QPSK	1	24	16.50	16.64	16.48			
5	QPSK	12	0	16.57	16.57	16.63			
5	QPSK	12	7	16.55	16.44	16.56	17.4	0	
5	QPSK	12	13	16.55	16.69	16.62			
5	QPSK	25	0	16.50	16.54	16.53			
5	HQAM	1	0	16.61	16.61	16.60			
5	HQAM	1	12	16.53	16.55	16.52	17.4	0	
5	HQAM	1	24	16.46	16.52	16.41			
5	HQAM	12	0	16.47	16.48	16.37			
5	HQAM	12	7	16.48	16.40	16.47			
5	HQAM	12	13	16.31	16.43	16.37	17.4	0	
5	HQAM	25	0	16.43	16.58	16.54			
5	HQAM	25	0	16.47	16.47	16.40			
5	HQAM	25	7	16.34	16.44	16.43			
5	BAGAM	1	24	16.35	16.44	16.46	17.4	0	
5	BAGAM	12	7	16.34	16.44	16.43			
5	BAGAM	12	13	16.44	16.60	16.26			
5	BAGAM	25	0	16.38	16.61	16.53			
5	255QAM	1	0	16.58	16.59	16.56	17.4	0	
5	255QAM	1	12	16.43	16.55	16.40			
5	255QAM	1	24	16.34	16.53	16.40			
5	255QAM	12	0	16.39	16.32	16.23			
5	255QAM	12	7	16.40	16.37	16.35	17.4	0	
5	255QAM	12	13	16.47	16.39	16.36			
5	255QAM	25	0	16.52	16.52	16.39			
5	255QAM	25	0	16.52	16.52	16.39			

Band 41 Ant1 EC12										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Power Peak Ch / Freq	Power Peak Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39790	40185	40620	41055	41490		
20	QPSK	1	0	16.36	16.52	16.51	16.47	16.31	17.4	0
20	QPSK	1	49	16.30	16.38	16.51	16.43	16.29		
20	QPSK	1	99	16.26	16.43	16.39	16.29	16.16		
20	QPSK	50	0	16.34	16.43	16.43	16.29	16.16		
20	QPSK	50	24	16.09	16.33	16.29	16.43	16.16		
20	QPSK	50	49	16.05	16.26	16.26	16.40	16.16		
20	QPSK	100	0	16.13	16.36	16.36	16.40	16.30		
20	16QAM	1	0	16.28	16.41	16.49	16.46	16.42		
20	16QAM	1	49	16.18	16.26	16.26	16.40	16.31		
20	16QAM	1	99	16.17	16.17	16.27	16.33	16.06		
20	16QAM	50	0	16.28	16.42	16.21	16.18	16.16		
20	16QAM	50	24	16.31	16.45	16.49	16.23	16.16		
20	16QAM	50	49	16.02	16.21	16.32	16.33	16.04		
20	16QAM	100	0	16.06	16.23	16.44	16.26	16.16		
20	16QAM	100	24	16.04	16.15	16.26	16.26	16.13		
20	16QAM	1	49	16.20	16.26	16.31	16.29	16.04		
20	16QAM	50	0	16.24	16.36	16.26	16.26	16.16		
20	16QAM	50	24	16.30	16.26	16.40	16.17	16.21		
20	16QAM	50	49	16.18	16.27	16.41	16.27	16.03		
20	16QAM	100	0	16.21	16.33	16.40	16.17	16.16		
20	16QAM	100	24	16.27	16.32	16.05	16.29	16.16		
20	256QAM	1	0	16.24	16.33	16.40	16.23	16.16		
20	256QAM	1	99	16.24	16.42	16.28	16.19	16.31		
20	256QAM	50	0	16.26	16.36	16.40	16.26	16.16		
20	256QAM	50	24	16.06	16.20	16.18	16.16	16.05		
20	256QAM	50	49	16.17	16.21	16.23	16.04	16.05		
20	256QAM	100	0	16.22	16.31	16.21	16.26	16.16		
Channel										
Frequency (MHz)				39790	40173	40620	41058	41515	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	16.44	16.43	16.51	16.45	16.41	17.4	0
15	QPSK	1	37	16.46	16.40	16.50	16.42	16.30		
15	QPSK	1	74	16.20	16.43	16.37	16.39	16.23		
15	QPSK	36	0	16.33	16.33	16.43	16.43	16.23		
15	QPSK	36	20	16.15	16.27	16.44	16.29	16.16		
15	QPSK	36	36	16.23	16.16	16.44	16.23	16.16		
15	QPSK	75	0	16.12	16.24	16.37	16.24	16.24		
15	16QAM	1	0	16.23	16.36	16.46	16.33	16.29		
15	16QAM	1	37	16.12	16.23	16.37	16.30	16.18		
15	16QAM	1	74	16.15	16.20	16.37	16.17	16.04		
15	16QAM	36	0	16.27	16.43	16.23	16.29	16.27		
15	16QAM	36	20	16.33	16.33	16.43	16.23	16.16		
15	16QAM	36	36	16.05	16.21	16.40	16.23	16.03		
15	16QAM	75	0	16.20	16.22	16.37	16.21	16.05		
15	16QAM	1	37	16.08	16.34	16.19	16.23	16.18		
15	16QAM	1	74	16.02	16.26	16.36	16.16	16.03		
15	16QAM	36	0	16.16	16.33	16.39	16.12	16.29		
15	16QAM	36	20	16.18	16.32	16.43	16.21	16.15		
15	16QAM	36	36	16.27	16.30	16.43	16.27	16.03		
15	16QAM	75	0	16.17	16.19	16.51	16.31	16.05		
15	256QAM	1	0	16.31	16.44	16.58	16.43	16.26		
15	256QAM	1	37	16.20	16.30	16.43	16.20	16.19		
15	256QAM	1	74	16.37	16.48	16.52	16.28	16.26		
15	256QAM	36	0	16.05	16.15	16.29	16.21	16.03		
15	256QAM	36	20	16.07	16.18	16.19	16.06	16.03		
15	256QAM	36	36	16.07	16.18	16.21	16.15	16.10		
15	256QAM	75	0	16.22	16.41	16.22	16.23	16.16		
Channel										
Frequency (MHz)				39790	40160	40620	41058	41560	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	16.44	16.45	16.49	16.49	16.45	17.4	0
5	QPSK	1	25	16.32	16.38	16.56	16.26	16.20		
5	QPSK	1	49	16.34	16.27	16.43	16.31	16.21		
5	QPSK	1	74	16.31	16.40	16.40	16.40	16.21		
5	QPSK	25	12	16.18	16.26	16.38	16.42	16.12		
5	QPSK	25	37	16.11	16.27	16.37	16.42	16.14		
5	QPSK	50	0	16.22	16.35	16.45	16.40	16.21		
5	16QAM	1	0	16.27	16.33	16.52	16.44	16.32		
5	16QAM	1	25	16.11	16.12	16.27	16.47	16.07		
5	16QAM	1	49	16.08	16.14	16.39	16.33	16.03		
5	16QAM	25	0	16.21	16.29	16.26	16.32	16.16		
5	16QAM	25	12	16.24	16.37	16.40	16.30	16.16		
5	16QAM	25	37	16.22	16.22	16.35	16.20	16.03		
5	16QAM	50	0	16.04	16.21	16.40	16.26	16.17		
5	16QAM	50	12	16.04	16.21	16.40	16.26	16.17		
5	16QAM	1	25	16.17	16.31	16.20	16.06	16.11		
5	16QAM	1	49	16.03	16.17	16.42	16.23	16.03		
5	16QAM	25	0	16.34	16.29	16.36	16.22	16.25		
5	16QAM	25	12	16.10	16.21	16.38	16.18	16.09		
5	16QAM	25	37	16.20	16.23	16.40	16.20	16.16		
5	16QAM	50	0	16.17	16.12	16.45	16.30	16.22		
5	256QAM	1	0	16.33	16.40	16.51	16.40	16.26		
5	256QAM	1	25	16.18	16.19	16.38	16.28	16.16		
5	256QAM	1	49	16.32	16.33	16.34	16.24	16.21		
5	256QAM	25	0	16.44	16.44	16.46	16.24	16.03		
5	256QAM	25	12	16.07	16.04	16.35	16.24	16.01		
5	256QAM	25	37	16.07	16.22	16.19	16.08	16.04		
5	256QAM	50	0	16.23	16.23	16.40	16.23	16.16		
Channel										
Frequency (MHz)				39670	40148	40620	41058	41565	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	16.43	16.43	16.53	16.49	16.45	17.4	0
5	QPSK	1	12	16.39	16.37	16.57	16.26	16.30		
5	QPSK	1	24	16.36	16.36	16.47	16.47	16.41		
5	QPSK	12	0	16.21	16.33	16.47	16.01	16.16		
5	QPSK	12	7	16.21	16.18	16.44	16.28	16.17		
5	QPSK	12	19	16.26	16.31	16.42	16.27	16.16		
5	QPSK	25	0	16.24	16.32	16.34	16.33	16.20		
5	16QAM	1	0	16.33	16.45	16.41	16.46	16.36		
5	16QAM	1	12	16.08	16.12	16.47	16.27	16.16		
5	16QAM	1	24	16.02	16.27	16.27	16.22	16.16		
5	16QAM	12	0	16.29	16.31	16.28	16.23	16.16		
5	16QAM	12	19	16.29	16.30	16.30	16.20	16.25		
5	16QAM	25	13	16.02	16.11	16.25	16.16	16.02		
5	16QAM	1	24	16.07	16.10	16.47	16.27	16.16		
5	16QAM	1	49	16.07	16.17	16.29	16.27	16.11		
5	16QAM	1	12	16.06	16.24	16.27	16.22	16.16		
5	16QAM	12	0	16.33	16.31	16.42	16.20	16.13		
5	16QAM	12	19	16.11	16.13	16.37	16.18	16.15		
5	16QAM	25	0	16.30	16.30	16.30	16.42	16.36		
5	256QAM	1	0	16.18	16.27	16.40	16.23	16.22		
5	256QAM	1	12	16.18	16.27	16.40	16.23	16.22		
5	256QAM	1	24	16.34	16.29	16.35	16.28	16.20		
5	256QAM	12	0	16.12	16.13	16.16	16.26	16.03		
5	256QAM	12	7	16.05	16.16	16.30	16.08	16.15		
5	256QAM	12	19	16.22	16.20	16.27	16.10	16.18		
5	256QAM	25	0	16.28	16.14	16.42	16.27	16.16		



Band 41 Ant2 Default																
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Lvl (MHz) Ch / Freq	Power Lvl (MHz) Ch / Freq	Power Lvl (MHz) Ch / Freq	Power Lvl (MHz) Ch / Freq	Turn-up limit (dBm)	MPR (dB)						
Channel																
Frequency (MHz)																
20	QPSK	1	0	39.750	42.85	40.60	41.008	41.840	24	0						
20	QPSK	1	49	22.43	22.57	22.65	22.69	22.76								
20	QPSK	1	99	22.65	22.64	22.73	22.66	22.62								
20	QPSK	50	0	22.60	22.59	22.68	22.63	22.65								
20	QPSK	50	24	21.58	21.67	21.87	21.81	21.74	23	1						
20	QPSK	50	49	21.62	21.71	21.91	21.76	21.77								
20	QPSK	100	0	21.62	21.61	21.61	21.72	21.68								
20	16QAM	1	0	21.83	21.81	21.92	21.78	21.81								
20	16QAM	1	49	21.79	21.82	21.86	21.76	21.77	23	1						
20	16QAM	1	99	21.71	21.77	21.82	21.68	21.74								
20	16QAM	50	0	20.83	20.89	20.97	20.91	20.96								
20	16QAM	50	24	20.83	20.72	20.83	20.77	20.80								
20	16QAM	50	50	20.66	20.69	20.77	20.69	20.69	22	2						
20	16QAM	100	0	20.27	20.29	20.36	20.27	20.32								
20	16QAM	1	0	20.53	20.54	20.56	20.53	20.55								
20	16QAM	1	49	20.54	20.48	20.58	20.56	20.53								
20	16QAM	1	99	20.32	20.44	20.51	20.36	20.45	21	3						
20	16QAM	50	0	19.87	19.90	20.01	19.86	19.92								
20	16QAM	50	24	19.77	19.75	19.88	19.73	19.75								
20	16QAM	50	50	19.83	19.88	19.94	19.85	19.79								
20	16QAM	100	0	19.89	19.91	19.95	19.88	19.84	19	5						
20	25QAM	1	0	17.74	17.74	17.82	17.74	17.72								
20	25QAM	1	49	17.82	17.82	17.73	17.82	17.79								
20	25QAM	1	99	17.58	17.60	17.69	17.60	17.63								
20	25QAM	50	0	17.81	17.86	17.82	17.86	17.86	19	5						
20	25QAM	50	24	17.89	17.82	17.96	17.87	17.84								
20	25QAM	50	50	17.78	17.81	17.89	17.80	17.78								
20	25QAM	100	0	17.83	17.81	17.89	17.80	17.85								
Channel																
Frequency (MHz)																
15	QPSK	1	0	39.725	42.773	40.60	41.008	41.816	24	0						
15	QPSK	1	37	22.55	22.56	22.67	22.61	22.56								
15	QPSK	1	74	22.46	22.53	22.59	22.58	22.62								
15	QPSK	36	0	21.44	21.57	21.61	21.72	21.69								
15	QPSK	36	20	21.69	21.70	21.73	21.70	21.64	23	1						
15	QPSK	36	49	21.69	21.69	21.69	21.69	21.69								
15	QPSK	75	0	21.52	21.61	21.66	21.57	21.58								
15	16QAM	1	0	21.68	21.67	21.81	21.72	21.67								
15	16QAM	1	37	21.68	21.70	21.80	21.64	21.69	23	1						
15	16QAM	1	74	21.63	21.63	21.73	21.63	21.64								
15	16QAM	36	0	20.74	20.81	20.84	20.85	20.84								
15	16QAM	36	20	20.89	20.84	20.92	20.89	20.92								
15	16QAM	36	39	20.59	20.61	20.71	20.54	20.52	22	2						
15	16QAM	75	0	20.77	20.84	20.86	20.73	20.76								
15	16QAM	75	0	20.55	20.43	20.51	20.48	20.55								
15	16QAM	1	37	20.48	20.43	20.50	20.41	20.39								
15	16QAM	1	74	20.31	20.39	20.39	20.37	20.39	21	3						
15	16QAM	36	0	19.75	19.78	19.87	19.72	19.77								
15	16QAM	36	20	19.72	19.69	19.79	19.62	19.62								
15	16QAM	36	39	19.89	19.82	19.91	19.84	19.86								
15	16QAM	75	0	19.70	19.82	19.90	19.83	19.75	19	5						
15	25QAM	1	0	17.86	17.89	17.79	17.82	17.83								
15	25QAM	1	37	17.82	17.82	17.82	17.82	17.82								
15	25QAM	1	74	17.52	17.47	17.56	17.50	17.60								
15	25QAM	36	0	17.86	17.84	17.88	17.82	17.79	19	5						
15	25QAM	36	20	17.84	17.88	17.88	17.82	17.79								
15	25QAM	36	39	17.68	17.74	17.85	17.68	17.72								
15	25QAM	75	0	17.79	17.82	17.80	17.84	17.84								
Channel																
Frequency (MHz)																
10	QPSK	1	0	39.700	42.666	40.60	41.008	41.840	24.00	0						
10	QPSK	1	25	22.52	22.48	22.73	22.61	22.72								
10	QPSK	1	49	22.54	22.48	22.63	22.54	22.53								
10	QPSK	25	0	21.48	21.57	21.61	21.69	21.68								
10	QPSK	25	12	21.68	21.65	21.81	21.66	21.68	23	1						
10	QPSK	25	25	21.56	21.61	21.76	21.62	21.60								
10	QPSK	50	0	21.40	21.57	21.60	21.68	21.64								
10	16QAM	1	0	21.78	21.79	21.79	21.70	21.67								
10	16QAM	1	25	21.70	21.75	21.79	21.72	21.67	23	1						
10	16QAM	1	49	21.68	21.62	21.69	21.64	21.67								
10	16QAM	25	0	20.78	20.81	20.92	20.78	20.76								
10	16QAM	25	12	20.73	20.80	20.75	20.73	20.69								
10	16QAM	25	25	20.54	20.54	20.71	20.62	20.60	22	2						
10	16QAM	50	0	20.78	20.78	20.88	20.74	20.86								
10	16QAM	50	12	20.63	20.69	20.81	20.68	20.63								
10	16QAM	1	25	20.42	20.40	20.54	20.43	20.44								
10	16QAM	1	49	20.29	20.30	20.36	20.24	20.34	22	2						
10	16QAM	25	0	19.75	19.81	19.88	19.74	19.82								
10	16QAM	25	12	19.72	19.86	19.81	19.69	19.66								
10	16QAM	25	25	19.74	19.75	19.87	19.78	19.67								
10	16QAM	50	0	19.71	19.88	19.80	19.75	19.79	21	3						
10	25QAM	1	0	17.62	17.68	17.74	17.66	17.68								
10	25QAM	1	25	17.46	17.46	17.60	17.47	17.54								
10	25QAM	1	49	17.49	17.57	17.57	17.53	17.52								
10	25QAM	25	0	17.63	17.65	17.88	17.68	17.68	19	5						
10	25QAM	25	12	17.68	17.75	17.81	17.61	17.79								
10	25QAM	25	25	17.53	17.72	17.79	17.72	17.68								
10	25QAM	50	0	17.73	17.87	17.88	17.86	17.78								
Channel																
Frequency (MHz)																
5	QPSK	1	0	39.675	42.624	40.60	41.008	41.865	24.00	0						
5	QPSK	1	12	22.52	22.55	22.64	22.56	22.47								
5	QPSK	1	24	22.49	22.49	22.58	22.50	22.55								
5	QPSK	12	0	21.42	21.64	21.80	21.62	21.62								
5	QPSK	12	7	21.69	21.65	21.77	21.74	21.74	23	1						
5	QPSK	12	13	21.56	21.61	21.75	21.65	21.60								
5	QPSK	25	0	21.59	21.62	21.87	21.63	21.67								
5	16QAM	1	0	21.73	21.68	21.87	21.74	21.75	23	1						
5	16QAM	1	12	21.74	21.75	21.87	21.64	21.73								
5	16QAM	1	24	21.59	21.73	21.74	21.55	21.63								
5	16QAM	12	0	20.69	20.75	20.86	20.76	20.83								
5	16QAM	12	7	20.87	20.89	20.97	20.90	20.92	22	2						
5	16QAM	12	13	20.54	20.52	20.69	20.62	20.59								
5	16QAM	25	0	20.78	20.78	20.88	20.74	20.86								
5	16QAM	25	7	20.55	20.42	20.52	20.40	20.47								
5	16QAM	1	12	20.42	20.43	20.47	20.38	20.40	22	2						
5	16QAM	1	24	20.27	20.28	20.32	20.23	20.24								
5	16QAM	12	0	19.74	19.78	19.88	19.82	19.85								
5	16QAM	12	7	19.67	19.62	19.76	19.65	19.65								
5	16QAM	12	13	19.78	19.83	19.87	19.79	19.73	21	3						
5	16QAM	25	0	19.77	19.83	19.87	19.84	19.75								
5	16QAM	25	7	19.67	19.60	19.71	19.60	17.63								
5	16QAM	25	13	17.48	17.48	17.62	17.48	17.54								
5	25QAM	1	0	17.84	17.51	17.57	17.51	17.51	19	5						
5	25QAM	1	12	17.86	17.86	17.86	17.86	17.86								
5	25QAM	12	7	17.76	17.78	17.84	17.78	17.78								
5	25QAM	12	13	17.66	17.72	17.78	17.65	17.68								
5	25QAM	25	0	17.73	17.87	17.87	17.87	17.87								
5	25QAM	25	7	17.66	17.79	17.84	17.68	17.78								

Band 48_FCC Ant4 EC12														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power High Ch / Freqs	Power Low Ch / Freqs	Power High Ch / Freqs	Power Low Ch / Freqs	Power High Ch / Freqs	Turn-up time (dBm)	MPP (dB)			
Channel				56540	56630	56760	56850							
Frequency (MHz)				56540	56630	56760	56850							
20	QPSK	1	0	18.11	18.29	18.15	18.11	19	0					
20	QPSK	1	49	18.08	18.16	18.07	17.98							
20	QPSK	1	99	17.95	18.02	17.92	18.03							
20	QPSK	50	0	18.11	18.21	18.11	18.07							
20	QPSK	50	24	18.01	18.12	18.03	17.94	19	0					
20	QPSK	50	50	18.02	18.06	17.94	18.08							
20	QPSK	100	0	18.12	18.23	18.14	18.08							
20	16QAM	1	0	18.03	18.10	18.07	17.95							
20	16QAM	1	49	18.02	18.04	17.99	18.01	19	0					
20	16QAM	1	99	18.10	18.26	18.17	18.13							
20	16QAM	50	0	18.03	18.13	18.06	17.93							
20	16QAM	50	24	18.03	18.03	17.99	18.04							
20	16QAM	50	50	18.14	18.26	18.18	18.13	19	0					
20	64QAM	100	0	18.05	18.12	18.05	17.94							
20	64QAM	1	0	17.95	18.02	17.92	18.08							
20	64QAM	1	49	18.14	18.28	18.21	18.06							
20	64QAM	1	99	18.01	18.10	18.06	17.98	19	0					
20	64QAM	50	0	17.95	18.02	17.92	18.08							
20	64QAM	50	24	18.13	18.25	18.12	18.08							
20	64QAM	50	50	18.02	18.09	18.02	18.02							
20	64QAM	100	0	18.02	18.10	17.96	18.07	19	0					
20	256QAM	1	0	18.15	18.18	18.07	18.15							
20	256QAM	1	49	18.07	18.16	18.06	18.07							
20	256QAM	1	99	18.02	18.05	18.01	17.91							
20	256QAM	50	0	18.09	18.18	18.17	18.08	19	0					
20	256QAM	50	24	18.02	18.13	18.06	18.06							
20	256QAM	50	50	18.04	18.12	18.03	17.95							
20	256QAM	100	0	18.06	18.14	18.11	17.98							
Channel				56715	56820	56760	56865							
Frequency (MHz)				56715	56820	56760	56865							
15	QPSK	1	0	18.03	18.17	18.12	18.22	19	0					
15	QPSK	1	37	17.93	18.03	17.84	17.92							
15	QPSK	1	74	17.86	17.80	17.82	17.89							
15	QPSK	86	0	17.86	18.12	18.00	17.99							
15	QPSK	86	20	17.89	18.04	17.94	17.80	19	0					
15	QPSK	75	0	17.91	17.86	17.84	17.89							
15	QPSK	75	0	18.05	18.15	18.04	17.93							
15	16QAM	1	0	17.88	18.05	17.93	17.81							
15	16QAM	1	37	17.86	17.92	17.86	17.89	19	0					
15	16QAM	1	74	17.95	18.18	18.03	18.04							
15	16QAM	86	0	17.90	18.06	17.91	17.84							
15	16QAM	86	20	17.93	17.84	17.92	17.85							
15	16QAM	86	39	18.05	18.13	18.10	17.99	19	0					
15	16QAM	75	0	17.92	18.04	17.98	17.87							
15	64QAM	1	0	17.87	17.92	17.89	17.89							
15	64QAM	1	37	18.09	18.16	18.14	17.96							
15	64QAM	1	74	17.87	17.89	17.94	17.86	19	0					
15	64QAM	86	0	17.89	17.82	17.87	17.84							
15	64QAM	86	20	18.06	18.12	18.02	17.94							
15	64QAM	86	39	17.94	18.02	17.94	17.85							
15	256QAM	1	0	17.95	18.00	17.82	17.74	19	0					
15	256QAM	1	0	18.06	18.13	17.93	18.09							
15	256QAM	1	37	17.85	18.08	17.93	18.00							
15	256QAM	1	74	17.97	17.88	17.91	17.86							
15	256QAM	86	0	17.98	18.11	18.03	18.00	19	0					
15	256QAM	86	20	17.89	18.05	17.94	17.84							
15	256QAM	86	39	17.95	18.05	17.97	17.85							
15	256QAM	75	0	18.02	18.06	18.00	17.84							
Channel				56920	56915	56915	56910							
Frequency (MHz)				56920	56915	56915	56910							
10	QPSK	1	0	18.04	18.22	18.18	18.24	19	0					
10	QPSK	1	25	17.98	18.08	17.95	17.89							
10	QPSK	1	49	17.87	17.88	17.80	17.88							
10	QPSK	25	12	18.01	18.07	17.96	17.94							
10	QPSK	25	12	17.94	18.04	17.93	17.85	19	0					
10	QPSK	25	25	17.91	17.98	17.83	17.86							
10	16QAM	1	0	18.06	18.22	18.05	18.02							
10	16QAM	1	0	17.94	18.01	17.88	17.86							
10	16QAM	1	25	17.93	17.99	17.92	17.82	19	0					
10	16QAM	1	49	17.89	18.13	18.10	18.04							
10	16QAM	25	0	17.90	18.00	18.00	17.84							
10	16QAM	25	12	17.97	17.84	17.86	17.87							
10	16QAM	25	12	18.04	18.13	18.12	17.99	19	0					
10	16QAM	50	0	17.93	17.88	18.04	17.88							
10	64QAM	1	0	17.90	17.95	17.93	17.86							
10	64QAM	1	25	18.08	18.19	18.12	17.98							
10	64QAM	1	49	17.90	18.04	17.95	17.89	19	0					
10	64QAM	25	0	17.87	17.80	17.85	17.86							
10	64QAM	25	12	18.00	18.19	18.02	17.96							
10	64QAM	25	25	17.95	17.95	17.93	17.82							
10	64QAM	80	0	17.85	17.86	17.88	17.86	19	0					
10	256QAM	1	0	18.02	18.10	17.99	18.04							
10	256QAM	1	25	17.95	18.07	17.93	17.85							
10	256QAM	1	49	17.83	17.82	17.80	17.86							
10	256QAM	25	0	17.99	18.04	18.04	17.86	19	0					
10	256QAM	25	12	17.91	18.02	17.96	18.00							
10	256QAM	25	25	17.85	18.00	17.95	17.87							
10	256QAM	80	0	17.99	18.00	18.04	17.87							
Channel				56920	56915	56915	56910							
Frequency (MHz)				56920	56915	56915	56910							
5	QPSK	1	0	18.04	18.15	18.09	18.02	19	0					
5	QPSK	1	12	17.84	18.06	18.00	17.83							
5	QPSK	1	24	17.85	17.92	17.79	17.92							
5	QPSK	12	0	17.89	18.16	18.00	17.89							
5	QPSK	12	7	17.89	18.06	17.90	17.80	19	0					
5	QPSK	12	13	17.86	17.95	17.85	17.93							
5	QPSK	25	0	17.99	18.22	18.07	18.01							
5	16QAM	1	0	17.92	17.98	17.98	17.81							
5	16QAM	1	12	17.93	17.83	17.90	17.89	19	0					
5	16QAM	1	24	18.01	18.20	18.12	18.06							
5	16QAM	12	0	17.95	18.08	18.01	17.81							
5	16QAM	12	7	17.89	17.94	17.87	17.80							
5	16QAM	12	13	17.89	18.00	18.04	17.89	19	0					
5	16QAM	12	19	17.89	17.96	17.92	17.84							
5	16QAM	1	0	17.84	17.91	17.88	17.87							
5	16QAM	1	12	18.04	18.17	18.07	17.97							
5	16QAM	1	24	17.89	17.89	17.87	17.83	19	0					
5	16QAM	12	0	17.96	18.07	17.96	17.87							
5	16QAM	12	13	18.03	18.13	18.08	17.87							
5	16QAM	25	0	17.89	17.96	17.85	17.87							
5	256QAM	1	0	18.02	18.08	18.04	17.86	19	0					
5	256QAM	1	12	17.98	18.04	17.95	17.86							
5	256QAM	1	24	17.86	17.97	17.84	17.77							
5	256QAM	12	0	18.05	18.13	18.09	18.00							
5	256QAM	12	7	17.90	18.06	18.00	18.00	19	0					
5	256QAM	12	13	17.89	18.00	17.92	17.87							
5	256QAM	12	19	17.90	17.99	17.94	17.84							
5	256QAM	25	0	17.93	18.08	18.02	18.00							

Band 48_FCC Ant5 Default													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)				
Channel				56500	56600	56700	56800						
Frequency (MHz)				56500	56600	56700	56800						
20	QPSK	1	0	22.74	22.69	22.78	22.59	24	0				
20	QPSK	1	49	22.57	22.79	22.57	22.39						
20	QPSK	1	99	22.70	22.63	22.61	22.31						
20	QPSK	50	0	21.67	21.70	21.75	21.57						
20	QPSK	50	24	21.70	21.71	21.70	21.67	23	1				
20	QPSK	50	50	21.70	21.70	21.70	21.69						
20	QPSK	100	0	21.65	21.71	21.70	21.59						
20	16QAM	1	0	21.84	21.87	21.87	21.52						
20	16QAM	1	49	21.85	21.97	21.90	21.57	23	1				
20	16QAM	1	99	21.69	21.91	21.72	21.58						
20	16QAM	50	0	20.74	20.96	20.76	20.71						
20	16QAM	50	24	20.84	21.01	20.84	20.58						
20	16QAM	50	50	20.69	20.94	20.78	20.69	22	2				
20	64QAM	100	0	20.65	20.84	20.67	20.57						
20	64QAM	1	0	20.75	20.90	20.88	20.55						
20	64QAM	1	49	20.75	20.92	20.75	20.61						
20	64QAM	1	99	20.74	20.93	20.84	20.57	21	3				
20	64QAM	50	0	19.72	19.83	19.70	19.70						
20	64QAM	50	24	19.65	19.90	19.90	19.57						
20	64QAM	50	50	19.63	19.84	19.88	19.65						
20	256QAM	100	0	19.71	19.83	19.81	19.55	19	5				
20	256QAM	1	0	17.72	17.92	17.89	17.51						
20	256QAM	1	49	17.81	17.78	17.79	17.66						
20	256QAM	1	99	17.64	17.88	17.78	17.70						
20	256QAM	50	0	17.72	18.00	17.77	17.68	19	5				
20	256QAM	50	24	17.79	17.85	17.85	17.53						
20	256QAM	50	50	17.67	18.00	17.75	17.60						
20	256QAM	100	0	17.77	17.95	17.65	17.58						
Channel				56515	56620	56700	56800						
Frequency (MHz)				56515	56620	56700	56800						
15	QPSK	1	0	22.78	22.82	22.68	22.57	24	0				
15	QPSK	1	37	22.95	22.74	22.37	22.38						
15	QPSK	1	74	22.95	22.71	22.60	22.40						
15	QPSK	86	0	21.49	21.66	21.65	21.54						
15	QPSK	86	20	21.69	21.59	21.51	21.66	23	1				
15	QPSK	86	39	21.64	21.71	21.58	21.62						
15	QPSK	75	0	21.67	21.52	21.57	21.37						
15	16QAM	1	0	21.86	21.73	21.84	21.66						
15	16QAM	1	37	21.73	21.56	21.52	21.40	23	1				
15	16QAM	1	74	21.40	21.83	21.72	21.45						
15	16QAM	58	0	20.84	20.84	20.54	20.70						
15	16QAM	86	39	20.31	21.00	20.75	20.67						
15	16QAM	86	59	20.54	20.90	20.88	20.59	22	2				
15	16QAM	75	0	20.45	20.70	20.52	20.66						
15	64QAM	1	0	20.69	20.93	20.83	20.55						
15	64QAM	1	37	20.57	20.77	20.53	20.59						
15	64QAM	1	74	20.83	20.88	20.54	20.66	21	3				
15	64QAM	58	0	19.85	19.76	19.55	19.67						
15	64QAM	58	20	19.59	19.82	19.86	19.55						
15	64QAM	75	0	19.46	19.84	19.55	19.54						
15	256QAM	1	0	17.56	17.83	17.82	17.51	19	5				
15	256QAM	1	37	17.72	17.66	17.70	17.54						
15	256QAM	1	74	17.43	17.87	17.77	17.59						
15	256QAM	58	0	17.65	17.80	17.78	17.61						
15	256QAM	58	20	17.62	17.70	17.84	17.67	19			5		
15	256QAM	58	39	17.57	18.00	17.89	17.52						
15	256QAM	75	0	17.74	17.78	17.57	17.59						
Channel				56530	56635	56700	56800						
Frequency (MHz)				56530	56635	56700	56800						
10	QPSK	1	0	22.74	22.84	22.84	22.48	24	0				
10	QPSK	1	25	22.52	22.78	22.42	22.83						
10	QPSK	1	49	22.86	22.83	22.45	22.52						
10	QPSK	25	0	21.47	21.63	21.46	21.48						
10	QPSK	25	12	21.69	21.52	21.65	21.59	23	1				
10	QPSK	25	25	21.66	21.68	21.63	21.71						
10	QPSK	50	0	21.63	21.63	21.48	21.38						
10	16QAM	1	0	21.74	21.67	21.82	21.38						
10	16QAM	1	25	21.72	21.88	21.68	21.88	23	1				
10	16QAM	1	49	21.54	21.70	21.57	21.48						
10	16QAM	25	0	20.66	20.80	20.66	20.71						
10	16QAM	25	12	20.86	20.81	20.69	20.51						
10	16QAM	50	0	20.75	20.80	20.74	20.55	22	2				
10	16QAM	50	0	20.51	20.83	20.66	20.52						
10	64QAM	1	0	20.71	20.80	20.71	20.26						
10	64QAM	1	25	20.59	20.84	20.75	20.59						
10	64QAM	1	49	20.73	20.75	20.72	20.56	22	2				
10	64QAM	25	0	19.50	19.83	19.53	19.67						
10	64QAM	25	12	19.50	19.87	19.89	19.59						
10	64QAM	25	25	19.56	19.76	19.84	19.57						
10	256QAM	50	0	19.54	19.83	19.73	19.36	21	3				
10	256QAM	1	0	17.72	17.92	17.89	17.59						
10	256QAM	1	25	17.77	17.94	17.87	17.44						
10	256QAM	1	49	17.49	17.78	17.78	17.64						
10	256QAM	25	0	17.60	17.86	17.83	17.49	19	5				
10	256QAM	25	12	17.66	17.74	17.75	17.48						
10	256QAM	25	25	17.55	17.80	17.64	17.51						
10	256QAM	50	0	17.78	17.97	17.87	17.69						
Channel				56545	56650	56700	56800						
Frequency (MHz)				56545	56650	56700	56800						
5	QPSK	1	0	22.62	22.67	22.85	22.37	24	0				
5	QPSK	1	12	22.41	22.75	22.65	22.30						
5	QPSK	1	24	22.50	22.68	22.59	22.42						
5	QPSK	12	0	21.84	21.76	21.69	21.42						
5	QPSK	12	7	21.54	21.69	21.69	21.47	23	1				
5	QPSK	12	19	21.72	21.69	21.58	21.59						
5	QPSK	25	0	21.60	21.64	21.65	21.59						
5	16QAM	1	0	21.84	21.81	21.82	21.47						
5	16QAM	1	12	21.78	21.75	21.78	21.53	23	1				
5	16QAM	1	24	21.60	21.70	21.52	21.41						
5	16QAM	12	0	20.52	20.84	20.69	20.50						
5	16QAM	12	7	20.73	20.84	20.67	20.46						
5	16QAM	12	19	20.35	20.94	20.76	20.67	22	2				
5	16QAM	25	0	20.50	20.81	20.48	20.42						
5	64QAM	1	0	20.89	20.69	20.76	20.80						
5	64QAM	1	12	20.44	20.84	20.68	20.53	22	2				
5	64QAM	1	24	20.51	20.84	20.74	20.46						
5	64QAM	12	0	19.59	19.88	19.78	19.71						
5	64QAM	12	7	19.64	19.72	19.82	19.58						
5	64QAM	12	19	19.47	19.73	19.88	19.46	21	3				
5	64QAM	25	0	18.93	19.73	19.82	19.52						
5	256QAM	1	0	17.57	17.88	17.79	17.50						
5	256QAM	1	12	17.60	17.69	17.73	17.57						
5	256QAM	1	24	17.60	17.75	17.78	17.59	19			5		
5	256QAM	1	49	17.48	17.69	17.69	17.51						
5	256QAM	12	0	17.74	17.83	17.72	17.49						
5	256QAM	12	19	17.60	17.98	17.70	17.60						
5	256QAM	12	7	17.75	17.97	17.65	17.59						

Band 41 Ant6 Default												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39750	40188	40620	41058	41490	41922			
Power (dBm)				22.52	22.47	22.46	22.47	22.46	22.47			
20	QPSK	1	0	22.52	22.47	22.46	22.47	22.46	22.47	23.9	0	
20	QPSK	1	40	22.54	22.37	22.53	22.54	22.36	22.55			
20	QPSK	1	80	22.48	22.47	22.60	22.46	22.48	22.46			
20	QPSK	50	0	21.48	21.38	21.55	21.52	21.44	21.52	23	0.9	
20	QPSK	50	24	21.32	21.34	21.42	21.38	21.38	21.38			
20	QPSK	50	48	21.25	21.27	21.44	21.46	21.44	21.44			
20	QPSK	100	0	21.23	21.29	21.52	21.49	21.39	21.52	23	0.9	
20	16QAM	1	0	21.37	21.47	21.50	21.44	21.46	21.46			
20	16QAM	1	40	21.30	21.30	21.44	21.41	21.35	21.35			
20	16QAM	1	80	21.31	21.35	21.40	21.30	21.39	21.39			
20	16QAM	50	0	20.50	20.43	20.58	20.51	20.50	20.50	22	1.9	
20	16QAM	50	24	20.27	20.28	20.42	20.31	20.34	20.34			
20	16QAM	50	50	20.20	20.30	20.36	20.22	20.26	20.26			
20	16QAM	100	0	20.49	20.49	20.54	20.42	20.44	20.44			
20	16QAM	100	1	20.47	20.32	20.52	20.41	20.42	20.42			
20	16QAM	1	40	20.25	20.19	20.30	20.26	20.23	20.23	22	1.9	
20	16QAM	1	80	20.25	20.22	20.26	20.20	20.21	20.21			
20	16QAM	50	0	19.44	19.45	19.55	19.47	19.42	19.42	21	2.9	
20	16QAM	50	24	19.29	19.33	19.42	19.36	19.29	19.29			
20	16QAM	50	50	19.35	19.35	19.48	19.42	19.35	19.35			
20	16QAM	100	0	19.49	19.41	19.54	19.48	19.49	19.49			
20	256QAM	1	0	17.42	17.40	17.53	17.43	17.50	17.50	19	4.9	
20	256QAM	1	40	17.34	17.39	17.63	17.36	17.35	17.35			
20	256QAM	1	80	17.36	17.32	17.40	17.29	17.37	17.37			
20	256QAM	50	0	17.45	17.57	17.64	17.59	17.68	17.68	19	4.9	
20	256QAM	50	24	17.08	17.07	17.54	17.54	17.05	17.05			
20	256QAM	50	50	17.02	17.45	17.57	17.53	17.44	17.44			
20	256QAM	100	0	17.08	17.08	17.56	17.56	17.09	17.09			
Channel												
Frequency (MHz)				39755	40173	40620	41058	41515	41972	Turn-up limit (dBm)	MPR (dB)	
Power (dBm)				22.51	22.43	22.93	22.73	22.92	22.92			
16	QPSK	1	0	22.52	22.47	22.66	22.47	22.43	22.43	24	0	
16	QPSK	1	37	22.48	22.24	22.46	22.46	22.21	22.21			
16	QPSK	1	74	22.42	22.38	22.52	22.32	22.34	22.34			
16	QPSK	36	0	21.38	21.38	21.51	21.40	21.32	21.32	23	0.9	
16	QPSK	36	20	21.24	21.26	21.32	21.26	21.23	21.23			
16	QPSK	36	40	21.19	21.21	21.27	21.19	21.16	21.16			
16	QPSK	75	0	21.09	21.10	21.40	21.45	21.34	21.34	23	0.9	
16	16QAM	1	0	21.33	21.38	21.43	21.34	21.37	21.37	23	0.9	
16	16QAM	1	40	21.15	21.24	21.32	21.15	21.15	21.15			
16	16QAM	1	74	21.17	21.27	21.29	21.15	21.15	21.15			
16	16QAM	36	0	20.43	20.38	20.51	20.48	20.37	20.37	22	1.9	
16	16QAM	36	20	20.25	20.27	20.31	20.24	20.24	20.24			
16	16QAM	36	39	20.17	20.16	20.27	20.12	20.22	20.22			
16	16QAM	75	0	20.43	20.43	20.41	20.31	20.37	20.37	22	1.9	
16	16QAM	1	0	20.35	20.34	20.38	20.27	20.30	20.30			
16	16QAM	1	37	20.15	20.11	20.19	20.16	20.12	20.12	22	1.9	
16	16QAM	1	74	20.15	20.19	20.13	20.17	20.06	20.06			
16	16QAM	36	0	19.40	19.35	19.49	19.41	19.35	19.35	21	2.9	
16	16QAM	36	20	19.24	19.25	19.35	19.24	19.15	19.15			
16	16QAM	36	39	19.04	19.04	19.22	19.12	19.02	19.02			
16	16QAM	75	0	19.25	19.24	19.49	19.42	19.32	19.32			
16	256QAM	1	0	17.37	17.34	17.44	17.29	17.39	17.39	19	4.9	
16	256QAM	1	40	17.25	17.33	17.42	17.25	17.33	17.33			
16	256QAM	1	74	17.22	17.26	17.30	17.16	17.25	17.25			
16	256QAM	36	0	17.45	17.40	17.51	17.52	17.42	17.42	19	4.9	
16	256QAM	36	20	17.45	17.53	17.50	17.39	17.49	17.49			
16	256QAM	36	39	17.49	17.53	17.47	17.41	17.31	17.31			
16	256QAM	75	0	17.43	17.47	17.58	17.48	17.50	17.50			
Channel												
Frequency (MHz)				39755	40173	40620	41058	41515	41972	Turn-up limit (dBm)	MPR (dB)	
Power (dBm)				22.51	22.47	22.93	22.73	22.92	22.92			
16	QPSK	1	0	22.43	22.38	22.41	22.47	22.43	22.43	23.90	0	
16	QPSK	1	25	22.40	22.30	22.43	22.49	22.29	22.29			
16	QPSK	1	40	22.41	22.40	22.58	22.38	22.33	22.33			
16	QPSK	25	0	21.43	21.34	21.48	21.46	21.36	21.36	23	0.9	
16	QPSK	25	12	21.27	21.24	21.35	21.25	21.19	21.19			
16	QPSK	25	25	21.22	21.14	21.36	21.43	21.32	21.32			
16	QPSK	50	0	21.10	21.26	21.38	21.26	21.25	21.25	23	0.9	
16	16QAM	1	0	21.33	21.32	21.38	21.39	21.33	21.33	23	0.9	
16	16QAM	1	25	21.17	21.25	21.37	21.37	21.31	21.31			
16	16QAM	1	40	21.27	21.31	21.28	21.26	21.27	21.27			
16	16QAM	25	0	20.43	20.34	20.45	20.47	20.46	20.46	22	1.9	
16	16QAM	25	14	20.16	20.23	20.35	20.19	20.28	20.28			
16	16QAM	25	28	20.15	20.17	20.25	20.07	20.13	20.13			
16	16QAM	50	0	20.43	20.42	20.45	20.35	20.38	20.38	22	1.9	
16	16QAM	50	14	20.16	20.20	20.48	20.35	20.29	20.29			
16	16QAM	50	28	20.19	20.05	20.16	20.19	20.10	20.10	22	1.9	
16	16QAM	1	40	20.15	20.07	20.21	20.08	20.17	20.17			
16	16QAM	25	0	19.30	19.31	19.41	19.36	19.27	19.27	21	2.9	
16	16QAM	25	12	19.16	19.27	19.32	19.29	19.15	19.15			
16	16QAM	25	25	19.21	19.26	19.42	19.31	19.22	19.22			
16	16QAM	50	0	19.27	19.31	19.44	19.35	19.30	19.30			
16	256QAM	1	0	17.32	17.36	17.46	17.31	17.39	17.39	19	4.9	
16	256QAM	1	25	17.24	17.26	17.36	17.25	17.24	17.24			
16	256QAM	1	40	17.24	17.28	17.30	17.19	17.23	17.23			
16	256QAM	25	0	17.51	17.43	17.58	17.51	17.59	17.59	19	4.9	
16	256QAM	25	0	17.47	17.46	17.53	17.44	17.42	17.42			
16	256QAM	25	25	17.40	17.31	17.44	17.38	17.25	17.25			
16	256QAM	50	0	17.50	17.52	17.58	17.48	17.53	17.53			
Channel												
Frequency (MHz)				39675	40445	40920	41400	41880	42360	Turn-up limit (dBm)	MPR (dB)	
Power (dBm)				22.44	22.40	22.54	22.54	22.40	22.40	23.90	0	
5	QPSK	1	0	22.44 <th>22.40</th> <th>22.54</th> <th>22.54</th> <th>22.40</th> <th>22.40</th> <td></td> <td></td> <td></td>	22.40	22.54	22.54	22.40	22.40			
5	QPSK	1	12	22.40 <th>22.34</th> <th>22.49</th> <th>22.41</th> <th>22.24</th> <th>22.24</th> <td></td> <td></td> <td></td>	22.34	22.49	22.41	22.24	22.24			
5	QPSK	1	24	22.38 <th>22.42</th> <th>22.56</th> <th>22.40</th> <th>22.33</th> <th>22.33</th> <td></td> <td></td> <td></td>	22.42	22.56	22.40	22.33	22.33			
5	QPSK	12	0	21.39	21.29	21.41	21.44	21.37	21.37	23	0.9	
5	QPSK	12	7	21.18 <th>21.27</th> <th>21.33</th> <th>21.25</th> <th>21.19</th> <th>21.19</th> <td></td> <td></td> <td></td>	21.27	21.33	21.25	21.19	21.19			
5	QPSK	12	13	21.30 <th>21.22</th> <th>21.38</th> <th>21.36</th> <th>21.32</th> <th>21.32</th> <td></td> <td></td> <td></td>	21.22	21.38	21.36	21.32	21.32			
5	QPSK	25	0	21.19 <th>21.17</th> <th>21.40</th> <th>21.39</th> <th>21.27</th> <th>21.27</th> <td>23</td> <td>0.9</td> <td></td>	21.17	21.40	21.39	21.27	21.27	23	0.9	
5	16QAM	1	0	21.33 <th>21.37</th> <th>21.41</th> <th>21.33</th> <th>21.36</th> <th>21.36</th> <td>23</td> <td>0.9</td> <td></td>	21.37	21.41	21.33	21.36	21.36	23	0.9	
5	16QAM	1	12	21.23 <th>21.28</th> <th>21.39</th> <th>21.38</th> <th>21.31</th> <th>21.31</th> <td></td> <td></td> <td></td>	21.28	21.39	21.38	21.31	21.31			
5	16QAM	1	24	21.27 <th>21.21</th> <th>21.29</th> <th>21.20</th> <th>21.17</th> <th>21.17</th> <td>22</td> <td>1.9</td> <td></td>	21.21	21.29	21.20	21.17	21.17	22	1.9	
5	16QAM	12	0	20.39 <th>20.37</th> <th>20.51</th> <th>20.38</th> <th>20.41</th> <th>20.41</th> <td></td> <td></td> <td></td>	20.37	20.51	20.38	20.41	20.41			
5	16QAM	12	7	20.20 <th>20.23</th> <th>20.33</th> <th>20.24</th> <th>20.25</th> <th>20.25</th> <td></td> <td></td> <td></td>	20.23	20.33	20.24	20.25	20.25			
5	16QAM	12	13	20.19 <th>20.18</th> <th>20.26</th> <th>20.16</th> <th>20.13</th> <th>20.13</th> <td>22</td> <td>1.9</td> <td></td>	20.18	20.26	20.16	20.13	20.13	22	1.9	
5	16QAM	25	0	20.44 <th>20.40</th> <th>20.47</th> <th>20.33</th> <th>20.43</th> <th>20.43</th> <td></td> <td></td> <td></td>	20.40	20.47	20.33	20.43	20.43			
5	16QAM	1	0	20.42 <th>20.27</th> <th>20.49</th> <th>20.32</th> <th>20.32</th> <th>20.32</th> <td></td> <td></td> <td></td>	20.27	20.49	20.32	20.32	20.32			
5	16QAM	1	12	20.17 <th>20.10</th> <th>20.17</th> <th>20.02</th> <th>20.18</th> <td>20.18</td> <td>22</td> <td>1.9</td> <td></td>	20.10	20.17	20.02	20.18	20.18	22	1.9	
5	16QAM	24	0	20.13 <th>20.14</th> <th>20.17</th> <th>20.01</th> <th>20.17</th> <td>20.17</td> <td></td> <td></td> <td></td>	20.14	20.17	20.01	20.17	20.17			
5	16QAM	12	0	19.34	19.41	19.52	19.38	19.35	19.35	21	2.9	
5	16QAM	12	7	19.16 <th>19.28</th> <th>19.33</th> <th>19.23</th> <th>19.20</th>	19.28	19.33	19.23	19.20	19.20			
5	16QAM	12	13	19.21 <th>19.26</th> <th>19.42</th> <th>19.31</th> <th>19.22</th> <td>19.22</td> <td></td> <td></td> <td></td>	19.26	19.42	19.31	19.22	19.22			
5	16QAM	25	0	19.24	19.24	19.44	19.34	19.31	19.31			
5	256QAM	1	0	17.35	19.30	19.47	19.37	19.37	19.37	19	4.9	
5	256QAM	1	1									

Band 48_FCC Ant7 EC12											
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Low Mod Ch / Freq	Power High Low Mod Ch / Freq	Power High Low Mod Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel				56340	56830	56150	56660	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				56500	56100	56410	56600				
20	QPSK	1	0	17.44	17.47	17.09	17.36	18.5	0		
20	QPSK	1	49	17.33	17.35	17.01	17.52				
20	QPSK	1	99	17.19	17.37	16.99	17.63				
20	QPSK	50	0	17.31	17.42	17.03	17.21				
20	QPSK	50	24	17.32	17.33	17.04	17.26	18.5	0		
20	QPSK	50	50	17.41	17.41	17.10	17.65				
20	QPSK	100	0	17.22	17.40	17.03	17.21				
20	16QAM	1	0	17.44	17.25	17.00	17.26				
20	16QAM	1	49	17.30	17.35	16.97	17.67	18.5	0		
20	16QAM	1	99	17.39	17.35	16.97	17.67				
20	16QAM	50	0	17.27	17.36	16.98	17.17				
20	16QAM	50	24	17.32	17.25	16.91	17.11				
20	16QAM	50	50	17.36	17.29	17.01	17.50	18.5	0		
20	16QAM	100	0	17.21	17.34	16.94	17.10				
20	64QAM	1	0	17.23	17.46	17.01	17.15				
20	64QAM	1	49	17.39	17.35	17.04	17.68				
20	64QAM	1	99	17.46	17.45	16.96	17.69	18.5	0		
20	64QAM	50	0	17.36	17.43	17.06	17.19				
20	64QAM	50	24	17.26	17.28	16.97	17.14				
20	64QAM	50	50	17.29	17.40	17.07	17.21				
20	64QAM	100	0	17.30	17.35	17.04	17.13	18.5	0		
20	256QAM	1	0	17.23	17.29	16.89	17.13				
20	256QAM	1	49	17.23	17.29	16.89	17.13				
20	256QAM	1	99	17.33	17.29	16.89	17.13				
20	256QAM	50	0	17.36	17.36	16.98	17.64	18.5	0		
20	256QAM	50	24	17.26	17.38	17.09	17.09				
20	256QAM	50	50	17.25	17.38	16.97	17.21				
20	256QAM	100	0	17.32	17.26	16.99	17.13				
Channel				56315	56820	56160	56665	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				56575	56100	56420	56665				
15	QPSK	1	0	17.44	17.36	17.08	17.15	18.5	0		
15	QPSK	1	37	17.18	17.16	16.96	17.21				
15	QPSK	1	74	17.08	17.36	16.93	16.93				
15	QPSK	36	0	17.29	17.39	17.11	17.15				
15	QPSK	36	20	17.15	17.25	16.94	17.08	18.5	0		
15	QPSK	36	36	17.37	17.39	16.96	16.89				
15	QPSK	75	0	17.17	17.34	17.02	17.10				
15	16QAM	1	0	17.25	17.07	16.81	17.07				
15	16QAM	1	37	17.19	17.30	16.93	17.26	18.5	0		
15	16QAM	1	74	17.19	17.20	16.89	17.02				
15	16QAM	36	0	17.17	17.29	16.84	17.02				
15	16QAM	36	20	17.17	17.07	16.89	16.95				
15	16QAM	36	36	17.32	17.18	16.93	16.93	18.5	0		
15	16QAM	75	0	17.28	17.27	17.08	17.02				
15	64QAM	1	0	17.15	17.45	17.12	17.01				
15	64QAM	1	37	17.21	17.24	17.02	16.98				
15	64QAM	1	74	17.34	17.41	17.11	17.06	18.5	0		
15	64QAM	36	0	17.24	17.38	16.89	17.05				
15	64QAM	36	20	17.25	17.14	16.88	17.19				
15	64QAM	36	36	17.24	17.15	16.90	17.02				
15	64QAM	75	0	17.23	17.16	16.85	16.94	18.5	0		
15	256QAM	1	0	17.22	17.12	16.85	17.04				
15	256QAM	1	37	17.20	17.10	16.82	17.05				
15	256QAM	1	74	17.12	17.14	16.82	16.98				
15	256QAM	36	0	17.32	17.26	16.92	17.04	18.5	0		
15	256QAM	36	20	17.20	17.22	17.08	17.05				
15	256QAM	36	36	17.07	17.18	16.86	17.11				
15	256QAM	75	0	17.30	17.19	16.93	16.99				
Channel				56290	56815	56165	56665	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				56550	56075	56425	56675				
10	QPSK	1	0	17.12	17.43	16.98	17.60	18.5	0		
10	QPSK	1	25	17.36	17.28	16.99	17.08				
10	QPSK	1	49	17.43	17.27	16.93	17.09				
10	QPSK	25	0	17.13	17.40	17.00	16.98				
10	QPSK	25	12	17.26	17.30	17.04	16.90	18.5	0		
10	QPSK	25	25	17.32	17.37	16.92	17.05				
10	QPSK	49	0	17.21	17.30	17.00	17.05				
10	16QAM	1	0	17.34	17.24	16.90	17.22				
10	16QAM	1	25	17.27	17.40	17.21	17.10	18.5	0		
10	16QAM	1	49	17.30	17.31	17.16	17.21				
10	16QAM	25	0	17.24	17.19	17.11	17.26				
10	16QAM	25	12	17.22	17.06	16.89	16.98				
10	16QAM	25	25	17.22	17.25	16.97	16.99	18.5	0		
10	16QAM	50	0	17.29	17.19	17.08	17.00				
10	64QAM	1	0	17.03	17.27	17.12	17.02				
10	64QAM	1	25	17.23	17.33	17.10	17.24				
10	64QAM	1	49	17.33	17.26	17.15	17.29	18.5	0		
10	64QAM	25	0	17.18	17.28	17.05	17.20				
10	64QAM	25	12	17.16	17.28	17.19	17.26				
10	64QAM	25	25	17.29	17.20	17.02	17.25				
10	64QAM	50	0	17.15	17.33	16.92	16.95	18.5	0		
10	256QAM	1	0	17.03	17.17	17.13	17.27				
10	256QAM	1	25	17.22	17.28	17.26	17.29				
10	256QAM	1	49	17.16	17.11	17.08	17.01				
10	256QAM	25	0	17.16	17.23	16.93	16.92	18.5	0		
10	256QAM	25	12	17.10	17.24	16.98	17.05				
10	256QAM	25	25	17.15	17.22	16.90	17.17				
10	256QAM	50	0	17.31	17.10	16.83	17.14				
Channel				56265	56810	56170	56675	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				56520	56075	56430	56675				
5	QPSK	1	0	17.34	17.35	16.95	17.17	18.5	0		
5	QPSK	1	12	17.26	17.16	16.97	17.15				
5	QPSK	1	24	17.12	17.36	16.94	16.97				
5	QPSK	12	0	17.09	17.32	16.99	17.05				
5	QPSK	12	7	17.26	17.30	17.03	16.97	18.5	0		
5	QPSK	12	13	17.40	17.26	16.94	16.98				
5	QPSK	25	0	17.17	17.26	16.91	17.14				
5	16QAM	1	0	17.23	17.43	17.20	17.13				
5	16QAM	1	12	17.33	17.35	17.05	17.01	18.5	0		
5	16QAM	1	24	17.31	17.37	17.17	17.11				
5	16QAM	12	0	17.24	17.27	16.79	17.11				
5	16QAM	12	7	17.20	17.22	16.88	17.08				
5	16QAM	12	13	17.15	17.23	16.99	17.05	18.5	0		
5	16QAM	25	0	17.27	17.28	17.15	17.09				
5	64QAM	1	0	17.16	17.32	17.13	17.25				
5	64QAM	1	12	17.31	17.18	17.07	17.35				
5	64QAM	1	24	17.34	17.38	17.29	17.29	18.5	0		
5	64QAM	12	0	17.20	17.35	16.99	17.18				
5	64QAM	12	7	17.20	17.20	16.91	17.17				
5	64QAM	12	13	17.09	17.29	16.96	17.18				
5	256QAM	1	0	17.16	17.17	16.91	16.94	18.5	0		
5	256QAM	1	12	17.23	17.26	17.09	17.15				
5	256QAM	1	24	17.20	17.20	17.24	17.30				
5	256QAM	1	24	17.22	17.21	17.18	17.13	18.5	0		
5	256QAM	12	7	17.24	17.34	17.09	17.24				
5	256QAM	12	13	17.09	17.29	17.24	17.24				



Reduced Power Mode for EC13 Standalone

GSM850 Aerb EC13					
Channel	Power Range Power (dBm)			Time-up	
Tx Channel	156	166	201	156	201
Frequency (MHz)	844.2	846.4	848.8	(dBm)	844.2
Frame-Rate Power (dBm)	156	166	201	156	201
QPSK 1 Tx slot	20.21	20.27	20.18	30.00	20.21
QPSK 2 Tx slot	20.09	20.16	20.12	20.00	22.09
QPSK 3 Tx slot	20.00	20.18	20.08	27.00	21.00
QPSK 4 Tx slot	24.87	24.94	24.90	28.00	21.87
EDGE 1 Tx slot	23.20	23.41	23.35	24.00	14.40
EDGE 2 Tx slot	22.08	22.14	22.01	23.00	18.08
EDGE 3 Tx slot	18.70	18.96	18.90	21.00	15.80
EDGE 4 Tx slot	18.33	18.40	18.30	10.00	15.33

GSM1900 Aerb EC13					
Channel	Power Range Power (dBm)			Time-up	
Tx Channel	1917	1961	1998	1917	1998
Frequency (MHz)	1899.2	1895	1900.8	(dBm)	1899.2
Frame-Rate Power (dBm)	1917	1961	1998	1917	1998
QPSK 1 Tx slot	22.21	22.08	22.00	23.00	13.50
QPSK 2 Tx slot	21.43	21.48	21.38	22.00	15.43
QPSK 3 Tx slot	19.30	19.44	19.33	20.00	15.30
QPSK 4 Tx slot	18.38	18.44	18.30	19.00	15.38
EDGE 1 Tx slot	18.70	18.96	18.70	19.00	9.70
EDGE 2 Tx slot	17.71	17.84	17.71	18.00	11.71
EDGE 3 Tx slot	15.20	15.33	15.20	16.00	11.00
EDGE 4 Tx slot	14.10	14.28	14.10	15.00	11.10

WCDMA U Aerb EC13					
Band	Power Range Power (dBm)			Time-up	
Tx Channel	8652	8660	8658	8652	8658
Frequency (MHz)	8652.4	8660	8657.6	(dBm)	8652.4
SCPP Rel 00	14.77	14.85	14.68	15.50	16.12
SCPP Rel 01	14.77	14.85	14.68	15.50	16.12
SCPP Rel 02	14.77	14.85	14.68	15.50	16.12
SCPP Rel 03	14.77	14.85	14.68	15.50	16.12
SCPP Rel 04	14.77	14.85	14.68	15.50	16.12
SCPP Rel 05	14.77	14.85	14.68	15.50	16.12
SCPP Rel 06	14.77	14.85	14.68	15.50	16.12
SCPP Rel 07	14.77	14.85	14.68	15.50	16.12
SCPP Rel 08	14.77	14.85	14.68	15.50	16.12
SCPP Rel 09	14.77	14.85	14.68	15.50	16.12
SCPP Rel 10	14.77	14.85	14.68	15.50	16.12
SCPP Rel 11	14.77	14.85	14.68	15.50	16.12
SCPP Rel 12	14.77	14.85	14.68	15.50	16.12
SCPP Rel 13	14.77	14.85	14.68	15.50	16.12
SCPP Rel 14	14.77	14.85	14.68	15.50	16.12
SCPP Rel 15	14.77	14.85	14.68	15.50	16.12
SCPP Rel 16	14.77	14.85	14.68	15.50	16.12
SCPP Rel 17	14.77	14.85	14.68	15.50	16.12
SCPP Rel 18	14.77	14.85	14.68	15.50	16.12
SCPP Rel 19	14.77	14.85	14.68	15.50	16.12
SCPP Rel 20	14.77	14.85	14.68	15.50	16.12
SCPP Rel 21	14.77	14.85	14.68	15.50	16.12
SCPP Rel 22	14.77	14.85	14.68	15.50	16.12
SCPP Rel 23	14.77	14.85	14.68	15.50	16.12
SCPP Rel 24	14.77	14.85	14.68	15.50	16.12
SCPP Rel 25	14.77	14.85	14.68	15.50	16.12
SCPP Rel 26	14.77	14.85	14.68	15.50	16.12
SCPP Rel 27	14.77	14.85	14.68	15.50	16.12
SCPP Rel 28	14.77	14.85	14.68	15.50	16.12
SCPP Rel 29	14.77	14.85	14.68	15.50	16.12
SCPP Rel 30	14.77	14.85	14.68	15.50	16.12
SCPP Rel 31	14.77	14.85	14.68	15.50	16.12
SCPP Rel 32	14.77	14.85	14.68	15.50	16.12
SCPP Rel 33	14.77	14.85	14.68	15.50	16.12
SCPP Rel 34	14.77	14.85	14.68	15.50	16.12
SCPP Rel 35	14.77	14.85	14.68	15.50	16.12
SCPP Rel 36	14.77	14.85	14.68	15.50	16.12
SCPP Rel 37	14.77	14.85	14.68	15.50	16.12
SCPP Rel 38	14.77	14.85	14.68	15.50	16.12
SCPP Rel 39	14.77	14.85	14.68	15.50	16.12
SCPP Rel 40	14.77	14.85	14.68	15.50	16.12
SCPP Rel 41	14.77	14.85	14.68	15.50	16.12
SCPP Rel 42	14.77	14.85	14.68	15.50	16.12
SCPP Rel 43	14.77	14.85	14.68	15.50	16.12
SCPP Rel 44	14.77	14.85	14.68	15.50	16.12
SCPP Rel 45	14.77	14.85	14.68	15.50	16.12
SCPP Rel 46	14.77	14.85	14.68	15.50	16.12
SCPP Rel 47	14.77	14.85	14.68	15.50	16.12
SCPP Rel 48	14.77	14.85	14.68	15.50	16.12
SCPP Rel 49	14.77	14.85	14.68	15.50	16.12
SCPP Rel 50	14.77	14.85	14.68	15.50	16.12
SCPP Rel 51	14.77	14.85	14.68	15.50	16.12
SCPP Rel 52	14.77	14.85	14.68	15.50	16.12
SCPP Rel 53	14.77	14.85	14.68	15.50	16.12
SCPP Rel 54	14.77	14.85	14.68	15.50	16.12
SCPP Rel 55	14.77	14.85	14.68	15.50	16.12
SCPP Rel 56	14.77	14.85	14.68	15.50	16.12
SCPP Rel 57	14.77	14.85	14.68	15.50	16.12
SCPP Rel 58	14.77	14.85	14.68	15.50	16.12
SCPP Rel 59	14.77	14.85	14.68	15.50	16.12
SCPP Rel 60	14.77	14.85	14.68	15.50	16.12
SCPP Rel 61	14.77	14.85	14.68	15.50	16.12
SCPP Rel 62	14.77	14.85	14.68	15.50	16.12
SCPP Rel 63	14.77	14.85	14.68	15.50	16.12
SCPP Rel 64	14.77	14.85	14.68	15.50	16.12
SCPP Rel 65	14.77	14.85	14.68	15.50	16.12
SCPP Rel 66	14.77	14.85	14.68	15.50	16.12
SCPP Rel 67	14.77	14.85	14.68	15.50	16.12
SCPP Rel 68	14.77	14.85	14.68	15.50	16.12
SCPP Rel 69	14.77	14.85	14.68	15.50	16.12
SCPP Rel 70	14.77	14.85	14.68	15.50	16.12
SCPP Rel 71	14.77	14.85	14.68	15.50	16.12
SCPP Rel 72	14.77	14.85	14.68	15.50	16.12
SCPP Rel 73	14.77	14.85	14.68	15.50	16.12
SCPP Rel 74	14.77	14.85	14.68	15.50	16.12
SCPP Rel 75	14.77	14.85	14.68	15.50	16.12
SCPP Rel 76	14.77	14.85	14.68	15.50	16.12
SCPP Rel 77	14.77	14.85	14.68	15.50	16.12
SCPP Rel 78	14.77	14.85	14.68	15.50	16.12
SCPP Rel 79	14.77	14.85	14.68	15.50	16.12
SCPP Rel 80	14.77	14.85	14.68	15.50	16.12
SCPP Rel 81	14.77	14.85	14.68	15.50	16.12
SCPP Rel 82	14.77	14.85	14.68	15.50	16.12
SCPP Rel 83	14.77	14.85	14.68	15.50	16.12
SCPP Rel 84	14.77	14.85	14.68	15.50	16.12
SCPP Rel 85	14.77	14.85	14.68	15.50	16.12
SCPP Rel 86	14.77	14.85	14.68	15.50	16.12
SCPP Rel 87	14.77	14.85	14.68	15.50	16.12
SCPP Rel 88	14.77	14.85	14.68	15.50	16.12
SCPP Rel 89	14.77	14.85	14.68	15.50	16.12
SCPP Rel 90	14.77	14.85	14.68	15.50	16.12
SCPP Rel 91	14.77	14.85	14.68	15.50	16.12
SCPP Rel 92	14.77	14.85	14.68	15.50	16.12
SCPP Rel 93	14.77	14.85	14.68	15.50	16.12
SCPP Rel 94	14.77	14.85	14.68	15.50	16.12
SCPP Rel 95	14.77	14.85	14.68	15.50	16.12
SCPP Rel 96	14.77	14.85	14.68	15.50	16.12
SCPP Rel 97	14.77	14.85	14.68	15.50	16.12
SCPP Rel 98	14.77	14.85	14.68	15.50	16.12
SCPP Rel 99	14.77	14.85	14.68	15.50	16.12
SCPP Rel 100	14.77	14.85	14.68	15.50	16.12



Band 2 Ant0 EC13												
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Ch./F.Freq.	Power Ch./F.Freq.	Turn-up Time (s)	MPR (dB)				
Channel												
Frequency [MHz]												
20	QPSK	1	0	15.03	15.14	15.11			17	0		
20	QPSK	1	49	15.04	15.08	15.05						
20	QPSK	1	99	15.02	15.09	15.00			17	0		
20	QPSK	50	0	15.98	15.95	15.92						
20	QPSK	50	24	15.99	15.92	15.96			17	0		
20	QPSK	50	50	15.92	15.98	15.96						
20	QPSK	100	0	15.87	15.85	15.81			17	0		
20	QPSK	100	24	15.83	15.89	15.86						
20	16QAM	1	49	15.96	15.99	15.77			17	0		
20	16QAM	1	99	15.81	15.94	15.82						
20	16QAM	1	30	15.74	15.87	15.80			17	0		
20	16QAM	50	24	15.83	15.92	15.78						
20	16QAM	50	50	15.89	15.86	15.81			17	0		
20	16QAM	100	0	15.85	15.91	15.80						
20	64QAM	1	0	15.89	15.99	15.92			17	0		
20	64QAM	1	49	15.78	15.99	15.94						
20	64QAM	1	99	15.76	15.89	15.76			17	0		
20	64QAM	50	0	15.82	15.90	15.79						
20	64QAM	50	24	15.80	15.85	15.76			17	0		
20	64QAM	50	50	15.75	15.88	15.77						
20	64QAM	100	0	15.82	15.97	15.94			17	0		
20	64QAM	100	24	15.77	15.92	15.87						
20	256QAM	1	49	15.77	15.82	15.80			17	0		
20	256QAM	1	99	15.82	15.89	15.79						
20	256QAM	50	0	15.77	15.84	15.79			17	0		
20	256QAM	50	24	15.74	15.83	15.80						
20	256QAM	50	50	15.65	15.76	15.66			17	0		
20	256QAM	100	0	15.65	15.72	15.67						
Channel												
Frequency [MHz]												
15	QPSK	1	0	15.89	15.99	15.93			17	0		
15	QPSK	1	37	15.87	15.99	15.91						
15	QPSK	1	74	15.87	15.99	15.85			17	0		
15	QPSK	36	0	15.83	15.98	15.80						
15	QPSK	36	36	15.75	15.97	15.85			17	0		
15	QPSK	36	39	15.87	15.82	15.80						
15	QPSK	75	0	15.77	15.86	15.89			17	0		
15	QPSK	75	0	15.78	15.84	15.74						
15	16QAM	1	37	15.76	15.86	15.70			17	0		
15	16QAM	1	74	15.69	15.81	15.75						
15	16QAM	36	39	15.70	15.82	15.68			17	0		
15	16QAM	36	20	15.71	15.88	15.69						
15	16QAM	75	0	15.70	15.78	15.67			17	0		
15	16QAM	75	0	15.73	15.82	15.68						
15	64QAM	1	0	15.82	15.87	15.79			17	0		
15	64QAM	1	30	15.79	15.95	15.75						
15	64QAM	1	74	15.83	15.90	15.64			17	0		
15	64QAM	36	0	15.70	15.76	15.67						
15	64QAM	36	39	15.69	15.75	15.66			17	0		
15	64QAM	75	0	15.73	15.82	15.68						
15	64QAM	75	0	15.70	15.78	15.62			17	0		
15	64QAM	1	0	15.82	15.87	15.79						
15	64QAM	1	30	15.79	15.95	15.75			17	0		
15	64QAM	1	74	15.83	15.90	15.64						
15	64QAM	36	0	15.70	15.76	15.67			17	0		
15	64QAM	36	39	15.69	15.75	15.66						
15	64QAM	75	0	15.73	15.82	15.68			17	0		
15	64QAM	75	0	15.70	15.78	15.62						
15	256QAM	1	37	15.68	15.76	15.60			17	0		
15	256QAM	1	74	15.68	15.80	15.69						
15	256QAM	36	39	15.67	15.77	15.69			17	0		
15	256QAM	36	39	15.61	15.62	15.59						
15	256QAM	75	0	15.72	15.87	15.76			17	0		
Channel												
Frequency [MHz]												
15	QPSK	1	0	15.89	15.99	15.93			17	0		
15	QPSK	1	25	15.83	15.92	15.99						
15	QPSK	1	49	15.96	15.96	15.86			17	0		
15	QPSK	1	74	15.87	15.99	15.88						
15	QPSK	25	13	15.82	15.98	15.78			17	0		
15	QPSK	25	25	15.67	15.88	15.78						
15	QPSK	49	0	15.78	15.91	15.77			17	0		
15	QPSK	49	0	15.73	15.89	15.80						
15	16QAM	1	25	15.78	15.84	15.63			17	0		
15	16QAM	1	49	15.68	15.87	15.76						
15	16QAM	25	0	15.64	15.81	15.70			17	0		
15	16QAM	25	12	15.72	15.82	15.68						
15	16QAM	49	0	15.70	15.78	15.76			17	0		
15	16QAM	50	0	15.72	15.82	15.79						
15	64QAM	1	0	15.76	15.94	15.87			17	0		
15	64QAM	1	0	15.69	15.85	15.75						
15	64QAM	1	49	15.68	15.79	15.68			17	0		
15	64QAM	25	0	15.73	15.82	15.67						
15	64QAM	25	0	15.68	15.80	15.64			17	0		
15	64QAM	25	25	15.63	15.82	15.64						
15	64QAM	50	0	15.78	15.85	15.64			17	0		
15	64QAM	50	0	15.68	15.83	15.68						
15	256QAM	1	25	15.68	15.78	15.62			17	0		
15	256QAM	1	25	15.78	15.83	15.74						
15	256QAM	1	49	15.71	15.84	15.74			17	0		
15	256QAM	1	49	15.63	15.73	15.62						
15	256QAM	12	0	15.62	15.76	15.66			17	0		
15	256QAM	12	7	15.77	15.88	15.68						
15	256QAM	12	13	15.81	15.87	15.76			17	0		
15	256QAM	12	13	15.74	15.86	15.64						
15	256QAM	25	0	15.81	15.88	15.80			17	0		
15	256QAM	25	0	15.71	15.83	15.79						
15	256QAM	25	12	15.70	15.82	15.64			17	0		
15	256QAM	25	12	15.78	15.83	15.64						
15	256QAM	25	0	15.78	15.94	15.64			17	0		
15	256QAM	25	0	15.68	15.83	15.68						
15	256QAM	1	12	15.70	15.77	15.70			17	0		
15	256QAM	1	24	15.79	15.82	15.73						
15	256QAM	1	24	15.71	15.74	15.64			17	0		
15	256QAM	1	24	15.67	15.76	15.61						
15	256QAM	12	13	15.80	15.86	15.68			17	0		
15	256QAM	12	13	15.67	15.72	15.61						
15	256QAM	25	0	15.69	15.72	15.57			17	0		
15	256QAM	25	0	15.61	15.61	15.50						
Channel												
Frequency [MHz]												
3	QPSK	1	0	15.91	16.00	15.98			17	0		
3	QPSK	1	8	15.89	16.04	15.96						
3	QPSK	1	14	15.96	16.02	15.97			17	0		
3	QPSK	1	14	15.88	16.02	15.94						
3	QPSK	8	4	15.74	15.89	15.87			17	0		
3	QPSK	8	7	15.71	15.83	15.74						
3	QPSK	14	0	15.79	15.84	15.78			17	0		
3	QPSK	14	0	15.69	15.86	15.72						
3	16QAM	1	0	15.81	15.81	15.79			17	0		
3	16QAM	1	8	15.72	15.78	15.67						
3	16QAM	1	14	15.69	15.87	15.75			17	0		
3	16QAM	8	0	15.68	15.74	15.74						
3	16QAM	8	4	15.78	15.87	15.72			17	0		
3	16QAM	15	0	15.78	15.77	15.77						
3	16QAM	15	0	15.71	15.85	15.83			17	0		
3	16QAM	1	0	15.76	15.80	15.67						
3	16QAM	15	0	15.70	15.86	15.72			17	0		
3	64QAM	1	14	15.68	15.84	15.71						
3	64QAM	8	0	15.77	15.82	15.62			17	0		
3	64QAM	8	4	15.68	15.77	15.62						
3	64QAM	8	7	15.64	15.78	15.65			17	0		
3	64QAM	1	0	15.77	15.79	15.68						
3	64QAM	1	8	15.77	15.79	15.68			17	0		
3	64QAM	1	14	15.67	15.74	15.65						
3	64QAM	8	4	15.62	15.76	15.75			17	0		
3	64QAM	8	7	15.69	15.78	15.67						
3	64QAM	15	0	15.72	15.82	15.76			17	0		
Channel												
Frequency [MHz]												
1.4	QPSK	1	0	15.97	16.04	15.98			17	0		
1.4	QPSK	1	3	15.88	15.94	15.91						
1.4	QPSK	1	3	15.90	16.02	15.99			17	0		
1.4	QPSK	3	0	15.87	15.96	15.92						
1.4	QPSK	3	1	15.85	15.91	15.75			17	0		
1.4	QPSK	3	1	15.75	15.82	15.71						
1.4	QPSK	0	0	15.75	15.89	15.76			17	0		
1.4	QPSK	0	0	15.80	15.85	15.77						
1.4	QPSK	0	0	15.79	15.79	15.69			17	0		
1.4	16QAM	1	5	15.78	15.89	15.77						
1.4	16QAM	0	0	15.65	15.73	15.68			17	0		
1.4	16QAM	0	0	15.73	15.88	15.72						
1.4	16QAM	3	3	15.62	15.79	15.74			17	0		
1.4	16QAM	3	3	15.77	15.88	15.77						
1.4	16QAM	0	0	15.74	15.86	15.72			17	0		
1.4	16QAM	3	3	15.71	15.81	15.77						
1.4	16QAM	0	0	15.70	15.84	15.70			17	0		
1.4	16QAM	3	3	15.72	15.82	15.72						
1.4	64QAM	3	1	15.70								



Band 12 Ant0 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.99	22.05	22.91	24	0						
10	QPSK	1	25	22.94	22.00	22.79								
10	QPSK	1	49	22.85	22.83	22.78	23	1						
10	QPSK	25	0	21.91	22.02	21.89								
10	QPSK	25	12	21.91	21.97	21.81	23	1						
10	QPSK	25	25	21.84	21.90	21.75								
10	QPSK	50	0	21.82	21.86	21.81	23	1						
10	16QAM	1	0	21.82	21.82	21.82								
10	16QAM	1	25	21.84	21.87	21.73	22	2						
10	16QAM	1	49	21.70	21.80	21.74								
10	16QAM	25	0	20.48	20.58	20.53	21	3						
10	16QAM	25	12	20.48	20.53	20.40								
10	16QAM	25	25	20.42	20.46	20.36	19	5						
10	16QAM	50	0	20.50	20.51	20.50								
10	64QAM	1	0	20.80	20.83	20.71	22	2						
10	64QAM	1	25	20.70	20.76	20.68								
10	64QAM	1	49	20.58	20.71	20.64	21	3						
10	64QAM	25	0	19.48	19.55	19.46								
10	64QAM	25	12	19.43	19.50	19.46	19	5						
10	64QAM	25	25	19.35	19.43	19.34								
10	64QAM	50	0	19.52	19.58	19.44	19	5						
10	256QAM	1	25	17.65	17.75	17.65								
10	256QAM	1	49	17.51	17.63	17.57	19	5						
10	256QAM	25	12	17.44	17.50	17.39								
10	256QAM	25	25	17.38	17.43	17.32	19	5						
10	256QAM	50	0	17.51	17.57	17.47								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.91	22.91	22.80	24	0						
5	QPSK	1	12	22.91	22.88	22.87								
5	QPSK	1	24	22.71	22.79	22.71	23	1						
5	QPSK	12	0	21.82	21.80	21.74								
5	QPSK	12	7	21.84	21.93	21.87	23	1						
5	QPSK	12	13	21.77	21.89	21.82								
5	QPSK	25	0	21.78	21.82	21.69	23	1						
5	16QAM	1	0	21.76	21.78	21.74								
5	16QAM	1	12	21.76	21.78	21.59	23	1						
5	16QAM	12	0	20.46	20.41	20.38								
5	16QAM	12	7	20.46	20.41	20.28	22	2						
5	16QAM	12	13	20.38	20.38	20.31								
5	16QAM	25	0	20.42	20.49	20.47	22	2						
5	64QAM	1	0	20.73	20.73	20.59								
5	64QAM	1	24	20.47	20.59	20.50	21	3						
5	64QAM	12	0	19.43	19.50	19.38								
5	64QAM	12	13	19.42	19.56	19.31	19	5						
5	64QAM	25	0	19.41	19.53	19.38								
5	256QAM	1	12	17.57	17.69	17.51	19	5						
5	256QAM	1	24	17.41	17.52	17.51								
5	256QAM	12	0	17.38	17.42	17.29	19	5						
5	256QAM	12	7	17.37	17.42	17.24								
5	256QAM	12	13	17.29	17.33	17.24	19	5						
5	256QAM	25	0	17.42	17.46	17.42								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.95	22.00	22.88	24	0						
3	QPSK	1	8	22.83	22.88	22.91								
3	QPSK	3	0	22.77	22.82	22.81	23	1						
3	QPSK	3	8	21.77	21.90	21.81								
3	QPSK	8	0	21.79	21.87	21.86	23	1						
3	QPSK	8	4	21.68	21.84	21.69								
3	QPSK	16	0	21.73	21.82	21.79	23	1						
3	16QAM	1	0	21.80	21.86	21.79								
3	16QAM	1	8	21.73	21.79	21.74	22	2						
3	16QAM	1	14	21.59	21.75	21.60								
3	16QAM	8	0	20.34	20.49	20.44	22	2						
3	16QAM	8	4	20.28	20.40	20.32								
3	16QAM	8	7	20.28	20.38	20.36	22	2						
3	16QAM	15	0	20.48	20.53	20.48								
3	64QAM	1	0	20.73	20.73	20.63	22	2						
3	64QAM	1	8	20.65	20.72	20.54								
3	64QAM	1	14	20.44	20.57	20.58	21	3						
3	64QAM	8	0	19.43	19.48	19.42								
3	64QAM	8	4	19.37	19.38	19.35	21	3						
3	64QAM	8	7	19.31	19.31	19.29								
3	256QAM	1	0	17.53	17.50	17.50	19	5						
3	256QAM	1	8	17.53	17.59	17.60								
3	256QAM	1	14	17.48	17.57	17.57	19	5						
3	256QAM	8	0	17.38	17.47	17.38								
3	256QAM	8	4	17.38	17.47	17.38	19	5						
3	256QAM	15	0	17.42	17.53	17.41								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.94	22.00	22.97	24	0						
1.4	QPSK	1	3	22.81	22.89	22.90								
1.4	QPSK	1	5	22.81	22.84	22.86	23	1						
1.4	QPSK	3	0	22.90	22.86	22.82								
1.4	QPSK	3	1	22.85	22.87	22.90	23	1						
1.4	QPSK	3	2	22.77	22.83	22.84								
1.4	16QAM	1	0	21.80	21.89	21.75	23	1						
1.4	16QAM	1	0	21.87	21.86	21.87								
1.4	16QAM	1	3	21.79	21.85	21.83	22	2						
1.4	16QAM	1	3	21.73	21.82	21.77								
1.4	16QAM	3	0	21.74	21.78	21.79	22	2						
1.4	16QAM	3	1	21.69	21.73	21.66								
1.4	16QAM	6	0	20.43	20.47	20.46	22	2						
1.4	16QAM	6	0	20.37	20.40	20.29								
1.4	64QAM	1	0	20.33	20.31	20.21	22	2						
1.4	64QAM	1	5	20.50	20.50	20.50								
1.4	64QAM	3	0	20.72	20.71	20.59	21	3						
1.4	64QAM	3	0	20.67	20.64	20.61								
1.4	64QAM	3	3	20.45	20.67	20.53	19	5						
1.4	256QAM	1	0	19.46	19.46	19.34								
1.4	256QAM	1	3	17.52	17.67	17.54	19	5						
1.4	256QAM	1	3	17.51	17.68	17.54								
1.4	256QAM	3	0	17.36	17.42	17.49	19	5						
1.4	256QAM	3	0	17.35	17.43	17.34								
1.4	256QAM	3	1	17.33	17.42	17.28	19	5						
1.4	256QAM	3	0	17.36	17.39	17.24								
1.4	256QAM	6	0	17.39	17.52	17.38								

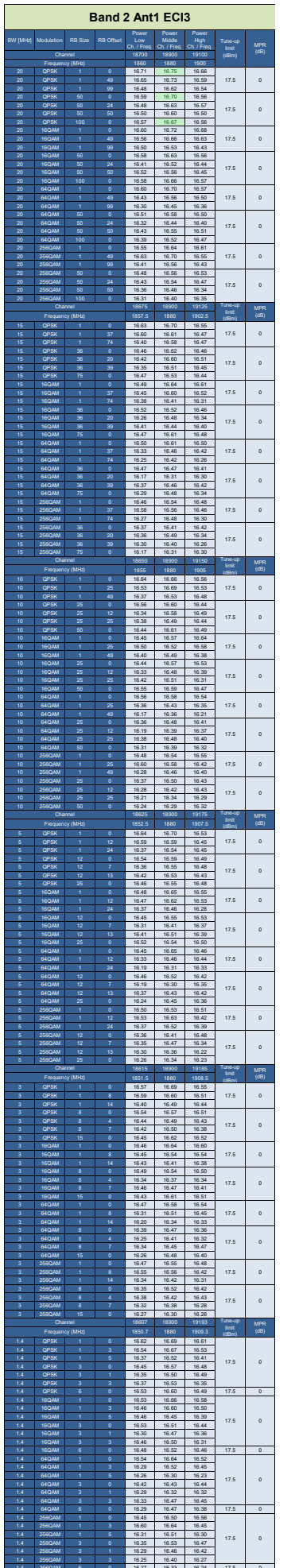
Band 13 Ant0 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.05	22.05	22.05	24	0	
10	QPSK	1	25	22.03	22.03	22.03			
10	QPSK	1	49	22.89	22.89	22.89	23	1	
10	QPSK	25	0	21.81	21.81	21.81			
10	QPSK	25	12	21.86	21.86	21.86	23	1	
10	QPSK	25	25	21.79	21.79	21.79			
10	QPSK	50	0	22.05	22.05	22.05	23	1	
10	16QAM	1	0	22.01	22.01	22.01			
10	16QAM	1	25	22.28	22.28	22.28	22	2	
10	16QAM	1	49	22.19	22.19	22.19			
10	16QAM	25	0	20.94	20.94	20.94	22	2	
10	16QAM	25	12	20.89	20.89	20.89			
10	16QAM	25	25	20.82	20.82	20.82	21	3	
10	16QAM	50	0	21.02	21.02	21.02			
10	64QAM	1	0	21.50	21.50	21.50	22	2	
10	64QAM	1	25	21.27	21.27	21.27			
10	64QAM	1	49	21.20	21.20	21.20	21	3	
10	64QAM	25	0	19.87	19.87	19.87			
10	64QAM	25	12	19.80	19.80	19.80	19	5	
10	64QAM	25	25	19.67	19.67	19.67			
10	64QAM	50	0	20.04	20.04	20.04	19	5	
10	256QAM	1	0	18.28	18.28	18.28			
10	256QAM	1	25	18.23	18.23	18.23	19	5	
10	256QAM	1	49	18.16	18.16	18.16			
10	256QAM	25	0	17.93	17.93	17.93	19	5	
10	256QAM	25	12	17.88	17.88	17.88			
10	256QAM	25	25	17.82	17.82	17.82	19	5	
10	256QAM	50	0	18.04	18.04	18.04			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.80	22.86	22.83	24	0	
5	QPSK	1	12	22.75	22.85	22.85			
5	QPSK	1	24	22.74	22.82	22.87	23	1	
5	QPSK	12	0	21.72	21.85	21.84			
5	QPSK	12	7	21.71	21.81	21.87	23	1	
5	QPSK	12	14	21.64	21.75	21.84			
5	QPSK	25	0	21.88	22.00	21.75	22	2	
5	16QAM	1	0	22.11	22.24	22.24			
5	16QAM	1	12	22.21	22.30	22.26	23	1	
5	16QAM	1	24	21.56	22.00	21.81			
5	16QAM	12	0	20.74	20.89	20.85	22	2	
5	16QAM	12	7	20.77	20.87	20.93			
5	16QAM	12	13	20.70	20.74	20.84	22	2	
5	16QAM	25	0	20.60	20.68	20.77			
5	16QAM	25	12	21.13	21.20	21.07	22	2	
5	16QAM	1	12	21.07	21.13	21.00			
5	16QAM	1	24	21.00	21.12	20.94	21	3	
5	16QAM	12	7	19.70	19.81	19.86			
5	16QAM	12	7	19.78	19.82	19.88	19	5	
5	16QAM	12	13	19.73	19.77	19.83			
5	16QAM	1	0	19.82	19.87	19.78	19	5	
5	256QAM	1	0	18.13	18.18	18.08			
5	256QAM	1	12	18.00	18.12	17.94	19	5	
5	256QAM	1	24	18.01	18.00	17.91			
5	256QAM	12	0	17.76	17.84	17.82	19	5	
5	256QAM	12	7	17.71	17.85	17.82			
5	256QAM	12	13	17.68	17.71	17.83	19	5	
5	256QAM	25	0	17.77	17.81	17.75			

Band 25 Ant0 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	0	16.11	16.24	16.20				
25	QPSK	1	49	16.01	16.14	16.06	17	0		
25	QPSK	1	99	16.14	16.11	16.06				
25	QPSK	50	0	16.05	16.16	16.11				
25	QPSK	50	24	15.93	16.03	16.04				
25	QPSK	50	50	15.88	16.05	15.89	17	0		
25	QPSK	100	0	15.99	16.02	16.03				
25	16QAM	1	0	15.97	16.02	16.02				
25	16QAM	1	49	15.97	15.97	15.83	17	0		
25	16QAM	1	99	15.86	16.06	16.02				
25	16QAM	50	24	15.89	15.93	15.81	17	0		
25	16QAM	50	50	15.91	15.96	15.89				
25	16QAM	100	0	15.91	15.97	15.90				
25	64QAM	1	0	15.96	16.01	16.01				
25	64QAM	1	49	15.86	15.91	15.91	17	0		
25	64QAM	1	99	15.86	15.94	15.83				
25	64QAM	50	0	15.91	15.95	15.87				
25	64QAM	50	24	15.87	15.98	15.79	17	0		
25	64QAM	50	50	15.87	15.96	15.80				
25	256QAM	1	49	15.84	15.98	15.81	17	0		
25	256QAM	1	99	15.83	15.92	15.87				
25	256QAM	1	99	15.79	15.95	15.87				
25	256QAM	50	24	15.82	15.84	15.82	17	0		
25	256QAM	50	50	15.73	15.78	15.75				
25	256QAM	100	0	15.84	15.83	15.84				
Channel										
Frequency (MHz)										
16	QPSK	1	0	16.06	16.16	16.06				
16	QPSK	1	24	15.99	16.10	16.02	17	0		
16	QPSK	1	74	16.04	16.01	16.04				
16	QPSK	36	0	15.98	16.10	16.00				
16	QPSK	36	24	15.94	15.95	15.95	17	0		
16	QPSK	36	39	15.77	15.93	15.82				
16	QPSK	75	0	15.87	15.95	15.86				
16	16QAM	1	0	15.82	15.87	15.86				
16	16QAM	1	37	15.85	15.88	15.70	17	0		
16	16QAM	1	74	15.76	15.81	15.76				
16	16QAM	36	0	15.71	15.76	15.81				
16	16QAM	36	20	15.80	15.98	15.70	17	0		
16	16QAM	36	39	15.82	15.84	15.80				
16	16QAM	75	0	15.78	15.81	15.85				
16	64QAM	1	0	15.86	15.89	15.85				
16	64QAM	1	49	15.86	15.91	15.86	17	0		
16	64QAM	1	74	15.82	15.81	15.09				
16	64QAM	36	0	15.79	15.90	15.73				
16	64QAM	36	20	15.77	15.85	15.70	17	0		
16	64QAM	36	39	15.74	15.81	15.76				
16	256QAM	1	37	15.76	15.79	15.72	17	0		
16	256QAM	1	74	15.79	15.87	15.77				
16	256QAM	36	0	15.80	15.84	15.72				
16	256QAM	36	20	15.76	15.74	15.71	17	0		
16	256QAM	36	39	15.69	15.65	15.63				
16	256QAM	75	0	15.84	15.83	15.84				
Channel										
Frequency (MHz)										
25	QPSK	1	0	15.98	16.12	16.08				
25	QPSK	1	25	15.85	16.09	16.02	17	0		
25	QPSK	1	49	16.06	15.97	16.02				
25	QPSK	12	0	15.96	16.04	16.01				
25	QPSK	12	7	15.82	15.92	15.84	17	0		
25	QPSK	12	13	15.76	15.93	15.79				
25	QPSK	25	0	15.87	15.95	15.87				
25	QPSK	25	10	15.84	15.93	15.81	17	0		
25	QPSK	25	25	15.85	15.86	15.69				
25	QPSK	50	0	15.70	15.82	15.74				
25	QPSK	50	12	15.82	15.84	15.75	17	0		
25	QPSK	50	25	15.82	15.84	15.80				
25	QPSK	100	0	15.78	15.81	15.77				
25	16QAM	1	0	15.82	15.90	15.84				
25	16QAM	1	49	15.81	15.78	15.77	17	0		
25	16QAM	1	49	15.82	15.84	15.72				
25	16QAM	25	0	15.77	15.87	15.80				
25	16QAM	25	49	15.76	15.74	15.80	17	0		
25	16QAM	25	25	15.76	15.93	15.73				
25	16QAM	50	0	15.85	15.83	15.90				
25	16QAM	50	12	15.85	15.77	15.83	17	0		
25	16QAM	50	25	15.83	15.80	15.74				
25	16QAM	100	0	15.78	15.87	15.79				
25	64QAM	1	0	15.72	15.81	15.85	17	0		
25	64QAM	1	12	15.76	15.91	15.68				
25	64QAM	1	24	15.83	15.83	15.78	17	0		
25	64QAM	12	0	15.73	15.74	15.73				
25	64QAM	12	7	15.81	15.83	15.66	17	0		
25	64QAM	12	13	15.82	15.82	15.82				
25	64QAM	25	0	15.81	15.92	15.86				
25	64QAM	25	12	15.78	15.87	15.79				
25	64QAM	25	25	15.72	15.81	15.85	17	0		
25	64QAM	50	0	15.78	15.90	15.86				
25	64QAM	50	12	15.74	15.79	15.68	17	0		
25	64QAM	50	25	15.74	15.79	15.68				
25	64QAM	100	0	15.75	15.91	15.68				
25	256QAM	1	0	15.73	15.90	15.68	17	0		
25	256QAM	1	12	15.74	15.79	15.68				
25	256QAM	1	24	15.83	15.83	15.78				
25	256QAM	12	0	15.71	15.78	15.83	17	0		
25	256QAM	12	7	15.75	15.70	15.76				
25	256QAM	12	13	15.69	15.70	15.60	17	0		
25	256QAM	25	0	15.89	15.88	15.82				
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.03	16.14	16.10				
3	QPSK	1	8	15.95	16.10	16.03	17	0		
3	QPSK	1	14	16.04	15.98	15.99				
3	QPSK	8	0	15.93	16.04	16.04				
3	QPSK	8	4	15.90	15.98	15.83	17	0		
3	QPSK	8	7	15.81	15.93	15.84				
3	QPSK	15	0	15.88	16.03	16.01	17	0		
3	16QAM	1	0	15.73	15.95	15.81				
3	16QAM	1	8	15.82	15.85	15.69	17	0		
3	16QAM	1	14	15.78	15.97	15.82				
3	16QAM	8	0	15.69	15.78	15.74				
3	16QAM	8	4	15.85	15.80	15.71	17	0		
3	16QAM	15	0	15.88	15.92	15.79				
3	16QAM	15	0	15.76	15.84	15.77				
3	64QAM	1	0	15.83	15.90	15.80				
3	64QAM	1	8	15.84	15.78	15.82	17	0		
3	64QAM	1	14	15.80	15.90	15.72				
3	64QAM	8	0	15.86	15.91	15.72				
3	64QAM	8	4	15.80	15.80	15.75	17	0		
3	64QAM	15	0	15.73	15.83	15.94				
3	64QAM	15	0	15.61	15.73	15.81				
3	64QAM	1	14	15.74	15.74	15.74	17	0		
3	256QAM	1	14	15.82	15.88	15.81				
3	256QAM	8	0	15.74	15.76	15.84				
3	256QAM	8	4	15.77	15.69	15.74	17	0		
3	256QAM	8	7	15.62	15.64	15.62				
3	256QAM	15	0	15.84	15.95	15.81				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	16.07	16.13	16.13				
1.4	QPSK	1	3	16.04	16.13	16.13	17	0		
1.4	QPSK	1	3	16.04	16.13	16.07				
1.4	QPSK	1	5	16.06	16.02	16.03				
1.4	QPSK	1	10	16.03	16.04	16.04	17	0		
1.4	QPSK	3	0	15.82	16.03	16.03				
1.4	QPSK	3	3	15.76	16.02	15.77				
1.4	QPSK	3	6	15.86	15.99	15.86	17	0		
1.4	16QAM	1	0	15.78	15.94	15.85				
1.4	16QAM	1	3	15.85	15.89	15.79	17	0		
1.4	16QAM	1	3	15.85	15.89	15.89				
1.4	16QAM	3	0	15.72	15.77	15.74				
1.4	16QAM	3	3	15.79	15.78	15.77	17	0		
1.4	16QAM	3	6	15.80	15.80	15.84				
1.4	16QAM	6	0	15.78	15.83	15.88	17	0		
1.4	16QAM	6	3	15.83	15.87	15.82				
1.4	16QAM	6	6	15.79	15.82	15.78	17	0		
1.4	16QAM	6	9	15.80	15.88	15.79				
1.4	16QAM	3	3	15.78	15.81	15.83	17	0		
1.4	64QAM	1	0	15.87	15.89	15.93				
1.4	64QAM	1	3	15.79	15.79	15.78	17	0		
1.4	64QAM	1	3	15.71	15.84	15.73				
1.4	256QAM	1	3	15.80	15.82	15.77	17	0		
1.4	256QAM	1	6	15.82	15.82	15.78				
1.4	256QAM	3	0	15.69	15.77	15.78	17	0		
1.4	256QAM	3	3	15.78	15.77	15.78				
1.4	256QAM	3	6	15.81	15.81	15.81	17	0		
1.4	256QAM	6	0	15.88	15.92	15.83	17	0		

Band 66 Ant0 EC13												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 150072	Power Middle Ch / Freq. 150322	Power High Ch / Freq. 150702	Turn-up time (ms)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	17.23	17.31	17.30	18	0				
20	QPSK	1	49	17.07	17.22	17.27						
20	QPSK	1	99	17.29	17.39	17.14						
20	QPSK	50	0	17.16	17.25	17.08						
20	QPSK	50	24	17.14	17.21	17.07	18	0				
20	QPSK	50	50	17.11	17.19	17.06						
20	QPSK	100	0	17.04	17.20	17.12						
20	16QAM	1	0	16.96	17.08	17.04						
20	16QAM	1	49	17.00	17.09	16.92	18	0				
20	16QAM	1	99	17.01	17.09	17.03						
20	16QAM	50	0	16.94	17.03	17.07						
20	16QAM	50	24	17.10	17.08	16.88						
20	16QAM	50	50	17.01	17.04	16.80	18	0				
20	16QAM	100	0	17.03	17.07	17.04						
Channel												
Frequency (MHz)												
15	QPSK	1	0	17.15	17.45	17.15		18	0			
15	QPSK	1	37	17.10	17.26	17.19						
15	QPSK	1	74	17.19	17.09	17.01						
15	QPSK	36	0	17.03	17.25	16.96						
15	QPSK	36	25	17.01	17.17	16.98	18	0				
15	QPSK	36	39	16.98	17.09	16.94						
15	QPSK	75	0	16.91	17.10	17.03						
15	16QAM	1	0	16.83	16.89	16.99						
15	16QAM	1	37	16.91	16.96	16.84	18	0				
15	16QAM	1	74	16.93	16.99	16.92						
15	16QAM	36	0	16.84	16.95	16.88						
15	16QAM	36	25	16.99	17.02	16.81						
15	16QAM	36	39	16.92	16.99	16.85	18	0				
15	16QAM	75	0	17.00	16.97	17.04						
15	64QAM	1	0	16.85	17.01	17.03						
15	64QAM	1	37	16.80	16.91	16.81		18	0			
15	64QAM	1	74	16.81	17.04	16.95						
15	64QAM	36	0	16.88	16.87	16.95						
15	64QAM	36	25	16.84	17.03	16.74						
15	64QAM	36	39	16.78	16.93	16.75	18	0				
15	64QAM	75	0	16.88	17.05	17.03						
15	256QAM	1	0	16.85	17.00	16.82						
15	256QAM	1	37	17.00	17.00	16.83						
15	256QAM	1	74	16.92	16.95	16.82						
15	256QAM	36	0	16.80	17.05	16.84						
15	256QAM	36	25	16.78	16.93	16.87						
15	256QAM	36	39	16.77	16.88	16.73	18	0				
15	256QAM	75	0	16.90	17.04	16.84						
Channel												
Frequency (MHz)												
10	QPSK	1	0	17.15	17.45	17.15	18	0				
10	QPSK	1	25	16.97	17.09	17.18						
10	QPSK	1	49	17.22	17.09	17.11						
10	QPSK	25	0	17.06	17.23	16.98						
10	QPSK	25	12	17.04	17.18	17.02	18	0				
10	QPSK	25	26	17.07	17.08	16.96						
10	QPSK	50	0	16.99	17.11	17.02						
10	16QAM	1	0	16.93	16.97	16.99						
10	16QAM	1	25	16.84	17.04	16.82	18	0				
10	16QAM	1	49	16.87	17.08	16.86						
10	16QAM	25	0	16.88	16.94	17.02						
10	16QAM	25	12	17.05	16.94	16.76						
10	16QAM	50	0	16.84	16.95	16.83	18	0				
10	16QAM	50	0	16.95	16.97	17.04						
10	64QAM	1	0	16.99	17.05	17.05						
10	64QAM	1	25	16.73	16.85	16.87						
10	64QAM	1	49	16.85	16.99	16.87						
10	64QAM	25	0	16.93	16.87	16.92						
10	64QAM	25	12	16.99	17.01	16.82	18	0				
10	64QAM	50	0	16.78	16.93	16.78						
10	64QAM	50	0	16.93	17.07	17.06						
10	256QAM	1	0	16.84	17.03	16.86						
10	256QAM	1	25	17.00	17.00	16.82	18	0				
10	256QAM	1	49	16.89	16.89	16.79						
10	256QAM	25	0	16.79	16.97	16.86						
10	256QAM	25	12	16.73	16.87	16.80						
10	256QAM	25	12	16.73	16.89	16.80	18	0				
10	256QAM	25	25	16.77	16.79	16.76						
10	256QAM	50	0	16.92	16.94	16.98						
Channel												
Frequency (MHz)												
5	QPSK	1	0	17.13	17.23	17.15	18	0				
5	QPSK	1	12	16.93	17.17	17.22						
5	QPSK	1	24	17.17	17.08	17.06						
5	QPSK	12	0	17.08	17.25	17.06						
5	QPSK	12	7	17.08	17.11	16.95	18	0				
5	QPSK	12	13	17.06	17.14	16.99						
5	QPSK	25	0	16.98	17.08	16.98						
5	16QAM	1	0	16.84	16.98	16.91						
5	16QAM	1	12	16.87	17.05	16.85	18	0				
5	16QAM	1	24	16.92	17.04	16.95						
5	16QAM	12	0	16.83	16.92	17.02						
5	16QAM	12	7	17.02	16.98	16.79						
5	16QAM	12	13	16.90	16.92	16.81	18	0				
5	64QAM	1	0	16.94	16.91	17.07						
5	64QAM	1	12	16.89	16.95	16.91						
5	64QAM	12	7	16.88	17.02	16.77						
5	64QAM	12	13	16.78	16.99	16.81	18	0				
5	64QAM	25	0	16.96	17.03	17.01						
5	256QAM	1	0	16.81	17.03	16.80						
5	256QAM	1	12	16.95	17.04	16.82						
5	256QAM	1	24	16.91	16.96	16.82	18	0				
5	256QAM	12	0	16.86	17.05	16.84						
5	256QAM	12	7	16.71	16.92	16.79						
5	256QAM	12	13									
5	256QAM	25	0	16.95	16.99	16.98						
Channel												
Frequency (MHz)												
3	QPSK	1	0	17.15	17.45	17.15	18	0				
3	QPSK	1	8	17.16	17.20	17.19						
3	QPSK	1	14	17.17	17.09	17.07						
3	QPSK	8	0	17.06	17.14	17.01						
3	QPSK	8	7	17.07	17.17	17.04	18	0				
3	QPSK	8	7	17.08	17.13	16.92						
3	QPSK	16	0	16.94	17.08	17.03						
3	16QAM	1	0	16.87	16.98	16.96						
3	16QAM	1	8	16.85	17.02	16.78	18	0				
3	16QAM	1	14	16.88	16.94	16.91						
3	16QAM	8	0	17.05	17.03	17.04						
3	16QAM	8	7	16.91	16.90	16.99						
3	16QAM	8	7	16.95	16.95	16.95	18	0				
3	16QAM	1	0	16.97	17.05	16.97						
3	16QAM	1	8	16.77	16.96	16.89						
3	16QAM	8	4	16.92	16.94	16.94						
3	16QAM	8	4	16.96	16.94	16.94	18	0				
3	16QAM	8	7	16.98	17.03	16.94						
3	16QAM	16	0	16.84	17.02	16.86						
3	16QAM	16	0	16.83	16.96	16.91						
3	16QAM	16	0	16.86	16.95	16.91	18	0				
3	16QAM	16	8	16.88	17.03	16.84						
3	16QAM	1	14	16.95	16.95	16.96						
3	16QAM	1	14	16.93	16.93	16.93						
3	16QAM	8	4	16.85	16.89	16.87	18	0				
3	16QAM	8	7	16.77	16.90	16.77						
3	16QAM	8	7	16.77	16.90	16.77						
3	16QAM	8	7	16.77	16.90	16.77						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	17.15	17.21	17.19	18	0				
1.4	QPSK	1	8	17.00	17.09	17.17						
1.4	QPSK	1	8	17.23	17.15	17.00						
1.4	QPSK	1	8	17.01	17.16	17.01						
1.4	QPSK	3	3	17.03	17.18	16.92	18	0				
1.4	QPSK	3	3	17.03	17.18	16.92						
1.4	QPSK	3	3	17.03	17.18	16.92						
1.4	QPSK	3	3	17.03	17.18	16.92						
1.4	16QAM	1	0	16.91	17.03	16.92	18	0				
1.4	16QAM	1	3	16.93	16.98	16.88						
1.4	16QAM	1	3	16.97	16.98	16.94						
1.4	16QAM	3	0	16.80	17.00	16.97						
1.4	16QAM	3	1	17.02	17.02	16.98	18	0				
1.4	16QAM	3	1	16.97	16.97	16.97						
1.4	16QAM	3	0	16.98	16.93	17.03						
1.4	16QAM	3	0	16.89	17.04	17.03						
1.4	16QAM	3	0	16.96	16.98	16.96	18	0				
1.4	16QAM	3	0	16.96	16.99	16.97						
1.4	16QAM	3	0	17.04	17.04	16.98						
1.4	16QAM	3	0	16.85	16.89	16.96						
1.4	16QAM	3	0	16.96	17.01	16.97	18	0				
1.4	16QAM	3	0	16.96	16.93	16.94						
1.4	16QAM	3	0	17.05	16.96	16.93						
1.4	16QAM	3	0	16.84	16.91	16.89						
1.4	16QAM	3	0	16.93	16.97	16.97	18	0				
1.4	16QAM	3	0	16.76	16.91	16.86						
1.4	16QAM	3	0	16.95	16.95	16.95						
1.4	16QAM	3	0	16.74	16.93	16.94						



Band 38 Ant0 EC13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel				37950	38050	38150				
Frequency (MHz)				25.75	25.85	25.95				
20	QPSK	1	0	20.24	20.51	20.78	21.4	0		
20	QPSK	1	48	20.32	20.30	20.35				
20	QPSK	1	88	20.10	20.28	20.46				
20	QPSK	50	0	20.37	20.43	20.47				
20	QPSK	50	24	20.21	20.21	20.31	21.4	0		
20	QPSK	50	48	20.14	20.25	20.31				
20	QPSK	100	0	20.28	20.40	20.28				
20	HQAM	1	0	20.21	20.23	20.30	21.4	0		
20	HQAM	1	48	20.30	20.33	20.35				
20	HQAM	1	96	20.44	20.28	20.28				
20	HQAM	50	24	20.29	20.32	20.35				
20	HQAM	50	48	20.23	20.30	20.42	21.4	0		
20	HQAM	50	72	20.29	20.32	20.42				
20	HQAM	100	0	20.26	20.32	20.35				
20	HQAM	100	24	20.28	20.12	20.25				
20	HQAM	1	48	20.24	20.32	20.35	21.4	0		
20	HQAM	1	96	20.30	20.28	20.34				
20	HQAM	50	24	20.37	20.32	20.35				
20	HQAM	50	48	20.29	20.32	20.35				
20	HQAM	100	0	20.23	20.15	20.25	21	0.4		
20	HQAM	100	24	20.27	20.22	20.35				
20	HQAM	100	48	20.23	20.19	20.32				
20	HQAM	100	72	20.27	20.22	20.35				
20	HQAM	100	96	20.23	20.15	20.25	21	0.4		
20	HQAM	100	120	20.27	20.22	20.35				
20	HQAM	100	144	20.23	20.19	20.32				
20	HQAM	100	168	20.27	20.22	20.35				
20	HQAM	100	192	20.23	20.15	20.25	21	0.4		
20	HQAM	100	216	20.27	20.22	20.35				
20	HQAM	100	240	20.23	20.15	20.25				
20	HQAM	100	264	20.27	20.22	20.35				
20	HQAM	100	288	20.23	20.15	20.25	21	0.4		
20	HQAM	100	312	20.27	20.22	20.35				
20	HQAM	100	336	20.23	20.15	20.25				
20	HQAM	100	360	20.27	20.22	20.35				
20	HQAM	100	384	20.23	20.15	20.25	21	0.4		
20	HQAM	100	408	20.27	20.22	20.35				
20	HQAM	100	432	20.23	20.15	20.25				
20	HQAM	100	456	20.27	20.22	20.35				
20	HQAM	100	480	20.23	20.15	20.25	21	0.4		
20	HQAM	100	504	20.27	20.22	20.35				
20	HQAM	100	528	20.23	20.15	20.25				
20	HQAM	100	552	20.27	20.22	20.35				
20	HQAM	100	576	20.23	20.15	20.25	21	0.4		
20	HQAM	100	600	20.27	20.22	20.35				
20	HQAM	100	624	20.23	20.15	20.25				
20	HQAM	100	648	20.27	20.22	20.35				
20	HQAM	100	672	20.23	20.15	20.25	21	0.4		
20	HQAM	100	696	20.27	20.22	20.35				
20	HQAM	100	720	20.23	20.15	20.25				
20	HQAM	100	744	20.27	20.22	20.35				
20	HQAM	100	768	20.23	20.15	20.25	21	0.4		
20	HQAM	100	792	20.27	20.22	20.35				
20	HQAM	100	816	20.23	20.15	20.25				
20	HQAM	100	840	20.27	20.22	20.35				
20	HQAM	100	864	20.23	20.15	20.25	21	0.4		
20	HQAM	100	888	20.27	20.22	20.35				
20	HQAM	100	912	20.23	20.15	20.25				
20	HQAM	100	936	20.27	20.22	20.35				
20	HQAM	100	960	20.23	20.15	20.25	21	0.4		
20	HQAM	100	984	20.27	20.22	20.35				
20	HQAM	100	1008	20.23	20.15	20.25				
20	HQAM	100	1032	20.27	20.22	20.35				
20	HQAM	100	1056	20.23	20.15	20.25	21	0.4		
20	HQAM	100	1080	20.27	20.22	20.35				
20	HQAM	100	1104	20.23	20.15	20.25				
20	HQAM	100	1128	20.27	20.22	20.35				
20	HQAM	100	1152	20.23	20.15	20.25	21	0.4		
20	HQAM	100	1176	20.27	20.22	20.35				
20	HQAM	100	1200	20.23	20.15	20.25				
20	HQAM	100	1224	20.27	20.22	20.35				
20	HQAM	100	1248	20.23	20.15	20.25	21	0.4		
20	HQAM	100	1272	20.27	20.22	20.35				
20	HQAM	100	1296	20.23	20.15	20.25				
20	HQAM	100	1320	20.27	20.22	20.35				
20	HQAM	100	1344	20.23	20.15	20.25	21	0.4		
20	HQAM	100	1368	20.27	20.22	20.35				
20	HQAM	100	1392	20.23	20.15	20.25				
20	HQAM	100	1416	20.27	20.22	20.35				
20	HQAM	100	1440	20.23	20.15	20.25	21	0.4		
20	HQAM	100	1464	20.27	20.22	20.35				
20	HQAM	100	1488	20.23	20.15	20.25				
20	HQAM	100	1512	20.27	20.22	20.35				
20	HQAM	100	1536	20.23	20.15	20.25	21	0.4		
20	HQAM	100	1560	20.27	20.22	20.35				
20	HQAM	100	1584	20.23	20.15	20.25				
20	HQAM	100	1608	20.27	20.22	20.35				
20	HQAM	100	1632	20.23	20.15	20.25	21	0.4		
20	HQAM	100	1656	20.27	20.22	20.35				
20	HQAM	100	1680	20.23	20.15	20.25				
20	HQAM	100	1704	20.27	20.22	20.35				
20	HQAM	100	1728	20.23	20.15	20.25	21	0.4		
20	HQAM	100	1752	20.27	20.22	20.35				
20	HQAM	100	1776	20.23	20.15	20.25				
20	HQAM	100	1800	20.27	20.22	20.35				
20	HQAM	100	1824	20.23	20.15	20.25	21	0.4		
20	HQAM	100	1848	20.27	20.22	20.35				
20	HQAM	100	1872	20.23	20.15	20.25				
20	HQAM	100	1896	20.27	20.22	20.35				
20	HQAM	100	1920	20.23	20.15	20.25	21	0.4		
20	HQAM	100	1944	20.27	20.22	20.35				
20	HQAM	100	1968	20.23	20.15	20.25				
20	HQAM	100	1992	20.27	20.22	20.35				
20	HQAM	100	2016	20.23	20.15	20.25	21	0.4		
20	HQAM	100	2040	20.27	20.22	20.35				
20	HQAM	100	2064	20.23	20.15	20.25				
20	HQAM	100	2088	20.27	20.22	20.35				
20	HQAM	100	2112	20.23	20.15	20.25	21	0.4		
20	HQAM	100	2136	20.27	20.22	20.35				
20	HQAM	100	2160	20.23	20.15	20.25				
20	HQAM	100	2184	20.27	20.22	20.35				
20	HQAM	100	2208	20.23	20.15	20.25	21	0.4		
20	HQAM	100	2232	20.27	20.22	20.35				
20	HQAM	100	2256	20.23	20.15	20.25				
20	HQAM	100	2280	20.27	20.22	20.35				
20	HQAM	100	2304	20.23	20.15	20.25	21	0.4		
20	HQAM	100	2328	20.27	20.22	20.35				
20	HQAM	100	2352	20.23	20.15	20.25				
20	HQAM	100	2376	20.27	20.22	20.35				
20	HQAM	100	2400	20.23	20.15	20.25	21	0.4		
20	HQAM	100	2424	20.27	20.22	20.35				
20	HQAM	100	2448	20.23	20.15	20.25				
20	HQAM	100	2472	20.27	20.22	20.35				
20	HQAM	100	2496	20.23	20.15	20.25	21	0.4		
20	HQAM	100	2520	20.27	20.22	20.35				
20	HQAM	100	2544	20.23	20.15	20.25				
20	HQAM	100	2568	20.27	20.22	20.35				
20	HQAM	100	2592	20.23	20.15	20.25	21	0.4		
20	HQAM	100	2616	20.27	20.22	20.35				
20	HQAM	100	2640	20.23	20.15	20.25				
20	HQAM	100	2664	20.27	20.22	20.35				
20	HQAM	100	2688	20.23	20.15	20.25	21	0.4		
20	HQAM	100	2712	20.27	20.22	20.35				
20	HQAM	100	2736	20.23	20.15	20.25				
20	HQAM	100	2760	20.27	20.22	20.35				
20	HQAM	100	2784	20.23	20.15	20.25	21	0.4		
20	HQAM	100	2808	20.27	20.22	20.35				
20	HQAM	100	2832	20.23	20.15	20.25				
20	HQAM	100	2856	20.27	20.22	20.35				
20	HQAM	100	2880	20.23	20.15	20.25	21	0.4		
20	HQAM	100	2904	20.27	20.22	20.35				
20	HQAM	100	2928	20.23	20.15	20.25				
20	HQAM	100	2952	20.27	20.22	20.35				
20	HQAM	100	2976	20.23	20.15	20.25	21	0.4		
20	HQAM	100	3000	20.27	20.22	20.35				
20	HQAM	100	3024	20.23	20.15	20.25				
20	HQAM	100	3048	20.27	20.22	20.35				
20	HQAM	100	3072	20.23	20.15	20.25	21	0.4		
20	HQAM	100	3096	20.27	20.22	20.35				
20	HQAM	100	3120	20.23	20.15	20.25				
20	HQAM	100	3144	20.27	20.22	20.35				
20	HQAM	100	3168	20.23	20.15	20.25	21	0.4		
20	HQAM	100	3192	20.27	20.22	20.35				
20	HQAM	100	3216	20.23	20.15	20.25				
20	HQAM	100	3240	20.27	20.22	20.35				
20	HQAM	100	3264	20.23	20.15	20.25	21	0.4		
20	HQAM	100	3288	20.27	20.22	20.35				
20	HQAM	100	3312	20.23	20.15	20.25				
20	HQAM	100	3336	20.27						



Band 4 Ant1 EC13										
SW (MHz)	Modulation	RB Size	RB Offset	Power (mW)	Power (mW) Ch1 / Freq1	Power (mW) Ch2 / Freq2	Power (mW) Ch3 / Freq3	Turn-on time (ms)	MPE (dB)	
Channel 1										
Frequency (MHz)										
20	QPSK	1	0	16.86	17.02	17.02	16.82			
20	QPSK	1	49	16.83	16.83	16.83	16.83			0
20	QPSK	1	98	16.86	16.86	16.86	16.86			
20	QPSK	50	0	16.86	16.86	16.86	16.86			
20	QPSK	50	24	16.72	16.81	16.81	16.72			
20	QPSK	50	49	16.74	16.84	16.84	16.74			
20	QPSK	100	0	16.78	16.88	16.88	16.78			
20	QPSK	100	50	16.80	16.88	16.88	16.80			
20	16QAM	1	99	16.87	16.72	16.66				
20	16QAM	1	99	16.81	16.94	16.79				
20	16QAM	50	0	16.82	16.73	16.66				
20	16QAM	50	24	16.86	16.72	16.66				
20	16QAM	100	0	16.88	16.88	16.79				
20	16QAM	100	50	16.68	16.67	16.73				
20	25QAM	1	0	16.80	16.87	16.84				
20	25QAM	1	49	16.85	16.83	16.73				
20	25QAM	50	0	16.65	16.74	16.77				
20	25QAM	50	24	16.66	16.72	16.68				
20	25QAM	100	0	16.68	16.67	16.73				
20	25QAM	100	50	16.68	16.67	16.73				
20	25QAM	1	0	16.53	16.66	16.63		Turn-on time (ms)	MPE (dB)	
20	25QAM	1	49	16.55	16.61	16.56				
20	25QAM	50	0	16.57	16.62	16.58				
20	25QAM	50	24	16.57	16.62	16.58				
20	25QAM	100	0	16.58	16.67	16.63				
20	25QAM	100	50	16.58	16.67	16.63				
Channel 2										
Frequency (MHz)										
15	QPSK	1	0	16.82	16.62	17.05				
15	QPSK	1	49	16.83	16.82	16.87				
15	QPSK	1	98	16.86	16.86	16.86				
15	QPSK	50	0	16.87	16.76	16.68				
15	QPSK	50	24	16.87	16.73	16.67				
15	QPSK	96	96	16.80	16.60	16.63				
15	QPSK	75	0	16.66	16.60	16.66				
15	16QAM	1	99	16.81	16.62	16.82				
15	16QAM	1	99	16.81	16.73	16.76				18
15	16QAM	50	0	16.87	16.61	16.63				
15	16QAM	50	24	16.89	16.62	16.66				
15	16QAM	96	20	16.64	16.62	16.55				
15	16QAM	96	96	16.64	16.62	16.55				
15	25QAM	1	0	16.74	16.58	16.76				
15	25QAM	1	49	16.75	16.59	16.75				
15	25QAM	50	0	16.61	16.61	16.61				
15	25QAM	50	24	16.61	16.60	16.60				18
15	25QAM	96	0	16.61	16.63	16.62				
15	25QAM	96	96	16.61	16.63	16.62				
15	25QAM	1	0	16.58	16.63	16.55				
15	25QAM	1	49	16.58	16.63	16.55				
15	25QAM	50	0	16.6	16.63	16.55				
15	25QAM	50	24	16.6	16.63	16.55				
15	25QAM	96	0	16.6	16.63	16.55				
15	25QAM	96	96	16.6	16.63	16.55				
15	25QAM	1	0	16.47	16.62	16.48				
15	25QAM	1	49	16.49	16.61	16.48				
Channel 3										
Frequency (MHz)										
3	QPSK	1	0	16.76	16.56	17.05				
3	QPSK	1	12	16.88	16.88	16.74				18
3	QPSK	1	24	16.84	16.86	16.75				
3	QPSK	12	0	16.73	16.84	16.81				
3	QPSK	12	7	16.65	16.89	16.73				
3	QPSK	12	13	16.64	16.71	16.81				
3	QPSK	26	0	16.74	16.73	16.73				
3	16QAM	1	9	16.73	16.80	16.80				
3	16QAM	1	9	16.73	16.80	16.80				
3	16QAM	12	0	16.73	16.70	16.72				
3	16QAM	12	7	16.72	16.85	16.73				
3	16QAM	12	13	16.69	16.82	16.73				
3	16QAM	26	0	16.66	16.73	16.68				
3	16QAM	26	7	16.67	16.83	16.68				
3	16QAM	26	13	16.65	16.82	16.68				
3	16QAM	1	12	16.55	16.75	16.70				
3	16QAM	1	24	16.43	16.65	16.57				
3	16QAM	12	0	16.62	16.67	16.73				
3	16QAM	12	7	16.42	16.74	16.69				
3	16QAM	12	13	16.54	16.72	16.68				
3	16QAM	26	0	16.63	16.62	16.63				
3	16QAM	1	0	16.66	16.63	16.76				
3	25QAM	1	12	16.67	16.60	16.66				
3	25QAM	1	24	16.67	16.60	16.66				
3	25QAM	12	0	16.68	16.62	16.63				
3	25QAM	12	7	16.67	16.60	16.66				
3	25QAM	12	13	16.67	16.60	16.66				
3	25QAM	26	0	16.47	16.69	16.67				
3	25QAM	26	7	16.46	16.64	16.48				
Channel 4										
Frequency (MHz)										
3	QPSK	1	0	16.74	16.96	16.72				
3	QPSK	1	1	16.83	16.84	16.68				0
3	QPSK	1	2	16.84	16.86	16.78				
3	QPSK	8	0	16.72	16.86	16.60				
3	QPSK	8	4	16.62	16.88	16.55				
3	QPSK	8	8	16.63	16.87	16.61				
3	QPSK	16	0	16.67	16.73	16.65				
3	QPSK	16	8	16.69	16.74	16.65				
3	16QAM	1	9	16.77	16.71	16.71				18
3	16QAM	1	9	16.77	16.62	16.71				
3	16QAM	8	0	16.61	16.61	16.60				
3	16QAM	8	7	16.64	16.72	16.68				
3	16QAM	16	0	16.68	16.65	16.67				
3	16QAM	16	8	16.70	16.69	16.68				
3	16QAM	1	8	16.53	16.70	16.65				18
3	16QAM	1	14	16.44	16.57	16.58				
3	16QAM	8	0	16.54	16.68	16.63				
3	16QAM	8	4	16.50	16.68	16.52				
3	16QAM	8	8	16.50	16.67	16.52				
3	16QAM	16	0	16.60	16.50	16.58				
3	25QAM	1	9	16.74	16.61	16.74				
3	25QAM	1	9	16.73	16.63	16.66				
3	25QAM	8	0	16.54	16.69	16.58				18
3	25QAM	8	4	16.60	16.58	16.52				
3	25QAM	8	8	16.60	16.58	16.52				
3	25QAM	16	0	16.52	16.70	16.58				18
3	25QAM	16	8	16.39	16.56	16.47				
Channel 5										
Frequency (MHz)										
1.4	QPSK	1	0	16.79	16.94	16.74				
1.4	QPSK	1	1	16.84	16.84	16.68				0
1.4	QPSK	3	0	16.77	16.81	16.64				
1.4	QPSK	3	1	16.78	16.77	16.65				
1.4	QPSK	3	3	16.64	16.59	16.54				
1.4	QPSK	6	0	16.78	16.71	16.65				18
1.4	QPSK	6	3	16.74	16.68	16.64				
1.4	16QAM	1	3	16.71	16.79	16.74				
1.4	16QAM	1	5	16.63	16.67	16.63				
1.4	16QAM	3	0	16.71	16.70	16.68				18
1.4	16QAM	3	1	16.62	16.60	16.70				
1.4	16QAM	6	0	16.60	16.62	16.65				
1.4	16QAM	6	3	16.62	16.64	16.67				18
1.4	16QAM	1	0	16.58	16.69	16.58				
1.4	16QAM	1	3	16.58	16.67	16.58				
1.4	16QAM	3	0	16.58	16.67	16.58				18
1.4	16QAM	3	3	16.54	16.64	16.58				
1.4	16QAM	6	0	16.60	16.63	16.62				
1.4	16QAM	6	3	16.61	16.62	16.62				
1.4	25QAM	1	5	16.58	16.64	16.58				18
1.4	25QAM	3	0	16.54	16.64	16.58				
1.4	25QAM	3	3	16.54	16.64	16.58				
1.4	25QAM	6	0	16.58	16.64	16.58				
1.4	25QAM	6	3	16.58	16.64	16.58				

Band 5 Ant1 EC13											
RW (MHz)	Modulation	RB Size	RB Offset	Power Line Power (dBm)	Power Line Power (dBm)	Power Line Power (dBm)	Power Line Power (dBm)	Turn-on time (ms)	MPE (dB)		
Channel 1											
Frequency (MHz)											
16	QPSK	1	0	21.02	21.07	21.17	21.16				
16	QPSK	1	25	21.18	21.21	21.31		22.5	0		
16	QPSK	1	49	21.31	21.37	21.47					
16	QPSK	25	0	21.18	21.22	21.15					
16	QPSK	25	12	21.13	21.18	21.06		22.5	0		
16	QPSK	25	12	21.13	21.18	21.06					
16	16QAM	1	0	21.08	21.10	21.05					
16	16QAM	1	25	21.07	21.03	21.02		22.5	0		
16	16QAM	1	49	20.94	21.06	20.95					
16	16QAM	25	0	20.75	20.68	20.84					
16	16QAM	25	12	20.77	20.83	20.75		22	0.5		
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16QAM	25	12	20.69	20.81	20.67					
16	16QAM	25	0	20.69	20.81	20.67					
16	16										

Band 7 Ant1 EC13												
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch1/Freq	Power Level Ch2/Freq	Power Level Ch3/Freq	Turn-on Time (ms)	APR (dB)				
Channel 1												
Frequency (MHz)												
20	QPSK	1	0	12.80	13.04	13.04						
10	QPSK	1	49	12.81	12.98	12.98						
10	QPSK	50	0	12.82	12.99	12.99					0	
10	QPSK	50	5	12.88	13.00	13.00						
10	QPSK	50	24	12.86	12.91	12.91						
10	QPSK	50	49	12.75	12.94	12.94					0	
10	16QAM	1	0	12.87	12.96	12.96						
10	16QAM	50	0	12.86	12.99	12.99						
10	16QAM	50	24	12.73	12.92	12.92					0	
10	16QAM	50	49	12.73	12.84	12.84						
10	16QAM	1	99	12.76	12.83	12.77						
10	16QAM	50	0	12.80	12.95	12.95						
10	16QAM	50	24	12.73	12.82	12.82					0	
10	16QAM	50	49	12.73	12.84	12.84						
10	16QAM	50	50	12.74	12.84	12.86						
10	16QAM	100	0	12.67	13.00	12.90						
10	16QAM	50	24	12.73	12.82	12.82					0	
10	16QAM	50	49	12.73	12.84	12.84						
10	16QAM	1	49	12.75	12.85	12.87						
10	16QAM	1	99	12.75	12.85	12.87						
10	16QAM	50	0	12.78	12.88	12.74						
10	256QAM	50	24	12.75	12.79	12.88						
10	256QAM	50	49	12.79	12.92	12.82					0	
10	256QAM	50	50	12.72	12.85	12.76						
Channel 2												
Frequency (MHz)												
10	QPSK	1	0	12.80	12.99	12.99						
10	QPSK	1	37	12.86	12.83	12.83						
10	QPSK	50	0	12.84	12.92	12.92					0	
10	QPSK	36	0	12.72	12.89	12.75						
10	QPSK	36	20	12.67	12.84	12.71						
10	16QAM	1	0	12.85	12.91	12.91						
10	16QAM	36	0	12.74	12.92	12.78						
10	16QAM	1	0	12.80	12.94	12.92						
10	16QAM	1	37	12.85	12.74	12.73						
10	16QAM	36	0	12.73	12.90	12.72						
10	16QAM	36	20	12.68	12.71	12.68						
10	16QAM	36	36	12.69	12.71	12.74					0	
10	16QAM	75	0	12.80	12.94	12.77						
10	16QAM	1	37	12.80	12.82	12.82						
10	16QAM	1	74	12.68	12.79	12.68						
10	16QAM	36	0	12.73	12.90	12.72						
10	16QAM	36	20	12.68	12.71	12.68						
10	16QAM	36	36	12.69	12.71	12.74					0	
10	16QAM	75	0	12.80	12.94	12.77						
10	16QAM	1	37	12.80	12.82	12.82						
10	16QAM	1	74	12.68	12.81	12.68						
10	16QAM	36	0	12.63	12.73	12.65						
10	16QAM	36	25	12.73	12.89	12.82						
10	256QAM	1	0	12.69	12.78	12.72						
10	256QAM	1	37	12.69	12.86	12.80						
10	256QAM	50	0	12.67	12.87	12.72						
10	256QAM	36	0	12.64	12.80	12.67						
10	256QAM	36	20	12.64	12.74	12.65						
10	256QAM	36	36	12.65	12.78	12.66					0	
10	256QAM	75	0	12.59	12.80	12.64						
Channel 3												
Frequency (MHz)												
10	QPSK	1	0	12.80	12.92	12.92						
10	QPSK	1	25	12.67	12.95	12.80						
10	QPSK	25	0	12.72	12.94	12.71						
10	QPSK	25	0	12.62	12.90	12.79						
10	QPSK	25	12	12.62	12.78	12.77						
10	QPSK	25	12	12.64	12.78	12.78					0	
10	QPSK	25	0	12.74	12.88	12.77						
10	16QAM	1	0	12.83	12.91	12.90						
10	16QAM	1	25	12.68	12.92	12.78						
10	16QAM	1	49	12.69	12.78	12.68						
10	16QAM	25	0	12.66	12.83	12.67						
10	16QAM	25	12	12.69	12.79	12.69					0	
10	16QAM	25	0	12.62	12.75	12.67						
10	16QAM	50	0	12.62	12.93	12.77						
10	16QAM	25	12	12.68	12.89	12.68						
10	16QAM	1	25	12.63	12.84	12.68						
10	16QAM	1	49	12.61	12.68	12.61						
10	16QAM	25	12	12.67	12.78	12.67						
10	16QAM	25	12	12.62	12.74	12.60						
10	16QAM	50	0	12.63	12.82	12.61						
10	16QAM	25	12	12.67	12.77	12.67						
10	16QAM	25	12	12.62	12.76	12.62					0	
10	256QAM	1	25	12.68	12.87	12.78						
10	256QAM	25	0	12.67	12.77	12.67						
10	256QAM	25	0	12.62	12.76	12.62						
10	256QAM	25	12	12.64	12.72	12.62						
10	256QAM	25	12	12.67	12.84	12.64					0	
10	256QAM	50	0	12.64	12.79	12.70						
Channel 4												
Frequency (MHz)												
5	QPSK	1	0	12.80	12.99	12.99						
5	QPSK	1	12	12.68	12.90	12.76						
5	QPSK	1	24	12.64	12.83	12.66						
5	QPSK	12	0	12.75	12.95	12.84						
5	QPSK	12	7	12.79	12.79	12.72						
5	QPSK	12	13	12.84	12.76	12.80					0	
5	QPSK	12	0	12.63	12.88	12.72						
5	16QAM	1	0	12.83	12.93	12.79						
5	16QAM	1	12	12.70	12.75	12.75						
5	16QAM	1	24	12.63	12.76	12.69						
5	16QAM	12	0	12.81	12.91	12.87						
5	16QAM	12	7	12.86	12.77	12.81						
5	16QAM	12	13	12.63	12.80	12.68						
5	16QAM	25	0	12.62	12.90	12.84						
5	16QAM	1	12	12.75	12.82	12.77						
5	16QAM	1	12	12.60	12.74	12.66						
5	16QAM	1	24	12.64	12.62	12.61						
5	16QAM	12	13	12.61	12.69	12.67						
5	16QAM	12	7	12.63	12.70	12.64						
5	256QAM	1	0	12.69	12.86	12.76						
5	256QAM	1	12	12.68	12.89	12.80						
5	256QAM	12	0	12.67	12.84	12.68						
5	256QAM	12	0	12.65	12.81	12.81						
5	256QAM	12	7	12.68	12.70	12.62						
5	256QAM	12	13	12.61	12.62	12.48						
5	256QAM	25	0	12.62	12.76	12.70						



Band 12 Ant1 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.10	22.16	22.08			
10	QPSK	1	25	21.92	21.97	21.94	23	0	
10	QPSK	1	49	22.06	21.96	21.87			
10	QPSK	25	0	21.74	21.68	21.83	23	0	
10	QPSK	25	12	21.78	21.85	21.72			
10	QPSK	25	25	21.67	21.62	21.59			
10	QPSK	50	0	21.61	21.68	21.63			
10	16QAM	1	0	22.06	22.06	22.01	23	0	
10	16QAM	1	25	21.84	21.85	21.84			
10	16QAM	1	49	21.94	21.83	21.88			
10	16QAM	25	0	20.70	20.68	20.72	22	1	
10	16QAM	25	12	20.78	20.81	20.65			
10	16QAM	25	25	20.70	20.77	20.71			
10	16QAM	50	0	20.70	20.69	20.69			
10	64QAM	1	0	21.00	21.15	20.99			
10	64QAM	1	25	21.02	20.95	21.11	22	1	
10	64QAM	1	49	20.95	21.01	20.85			
10	64QAM	25	0	19.84	19.89	19.78			
10	64QAM	25	12	19.87	19.82	19.62	21	2	
10	64QAM	25	25	19.82	19.86	19.87			
10	64QAM	50	0	19.52	19.72	19.69			
10	256QAM	1	25	19.04	17.93	17.89	19	4	
10	256QAM	1	49	17.80	17.87	17.85			
10	256QAM	25	0	19.50	19.66	19.57			
10	256QAM	25	12	17.74	17.74	17.69	19	4	
10	256QAM	25	25	17.68	17.68	17.65			
10	256QAM	50	0	17.68	17.68	17.65			
Channel									
Frequency (MHz)									
6	QPSK	1	0	21.96	22.13	22.00			
6	QPSK	1	24	21.71	21.67	21.89	23	0	
6	QPSK	1	24	22.04	21.89	21.73			
6	QPSK	12	0	21.83	21.68	21.68			
6	QPSK	12	7	21.72	21.77	21.61	23	0	
6	QPSK	12	13	21.55	21.46	21.41			
6	QPSK	25	0	21.44	21.69	21.49			
6	16QAM	1	0	22.04	22.03	22.12	23	0	
6	16QAM	1	12	22.03	22.10	22.01			
6	16QAM	1	24	21.96	22.01	21.87			
6	16QAM	12	0	20.87	20.72	20.84	22	1	
6	16QAM	12	7	20.83	20.67	20.65			
6	16QAM	12	13	20.76	20.77	20.82			
6	64QAM	1	0	21.00	21.03	20.87	22	1	
6	64QAM	1	24	20.78	20.81	20.95			
6	64QAM	1	24	20.75	21.01	20.80			
6	64QAM	12	0	19.70	19.72	19.79	21	2	
6	64QAM	12	13	19.43	19.50	19.35			
6	64QAM	25	0	19.43	19.61	19.68			
6	256QAM	1	12	17.97	17.76	17.72	19	4	
6	256QAM	1	24	17.69	17.71	17.86			
6	256QAM	12	0	17.52	17.52	17.64	19	4	
6	256QAM	12	7	17.53	17.72	17.64			
6	256QAM	12	13	17.60	17.61	17.41			
6	256QAM	25	0	17.54	17.70	17.43			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.81	22.08	22.15			
1.4	QPSK	1	3	21.87	21.80	21.83	23	0	
1.4	QPSK	1	5	21.96	21.80	21.67			
1.4	QPSK	3	0	21.54	21.82	21.65			
1.4	QPSK	3	1	21.75	21.82	21.62	23	0	
1.4	QPSK	3	3	21.48	21.52	21.60			
1.4	16QAM	1	0	21.89	21.70	21.48	23	0	
1.4	16QAM	1	0	21.89	21.06	22.04			
1.4	16QAM	1	3	21.82	21.99	21.82			
1.4	16QAM	3	0	21.96	21.70	21.73	23	0	
1.4	16QAM	3	0	21.82	21.86	22.03			
1.4	16QAM	3	1	21.83	21.94	21.83			
1.4	16QAM	6	0	21.90	21.91	21.81			
1.4	16QAM	6	0	21.02	20.77	20.97	22	1	
1.4	64QAM	1	0	20.85	21.04	20.90			
1.4	64QAM	1	3	20.84	20.95	21.09			
1.4	64QAM	1	5	20.91	20.91	20.84	22	1	
1.4	64QAM	3	0	20.94	20.93	21.00			
1.4	64QAM	3	0	20.75	20.80	20.86			
1.4	64QAM	3	3	21.02	20.95	20.89	21	2	
1.4	64QAM	6	0	19.32	19.94	19.68			
1.4	256QAM	1	3	17.86	17.86	18.01	19	4	
1.4	256QAM	1	3	17.91	17.89	17.83			
1.4	256QAM	3	0	17.85	17.72	17.84			
1.4	256QAM	3	0	18.05	18.04	17.89			
1.4	256QAM	3	1	17.99	17.83	17.79	19	4	
1.4	256QAM	3	0	17.81	17.74	17.89			
1.4	256QAM	6	0	17.82	17.66	17.77	19	4	

Band 13 Ant1 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.29			24	0	
10	QPSK	1	25	23.34					
10	QPSK	1	49	23.27					
10	QPSK	25	0	22.47			23	1	
10	QPSK	25	12	22.42					
10	QPSK	25	25	22.35					
10	QPSK	50	0	22.57					
10	16QAM	1	0	22.73			23	1	
10	16QAM	1	25	22.68					
10	16QAM	1	49	22.61					
10	16QAM	25	0	21.49			22	2	
10	16QAM	25	12	21.44					
10	16QAM	25	25	21.37					
10	16QAM	50	0	21.57					
10	64QAM	1	0	21.75			22	2	
10	64QAM	1	25	21.70					
10	64QAM	1	49	21.63					
10	64QAM	25	0	20.48			21	3	
10	64QAM	25	12	20.43					
10	64QAM	25	25	20.36					
10	64QAM	50	0	20.51					
10	256QAM	1	25	18.48			19	5	
10	256QAM	1	25	18.53					
10	256QAM	1	49	18.58					
10	256QAM	25	0	18.43			19	5	
10	256QAM	25	12	18.43					
10	256QAM	25	25	18.36					
10	256QAM	50	0	18.53					
Channel									
Frequency (MHz)									
6	QPSK	1	0	22.28	22.33	22.29			
6	QPSK	1	12	22.22	22.27	22.29	24	0	
6	QPSK	1	24	22.14	22.22	22.21			
6	QPSK	12	0	22.33	22.24	22.31			
6	QPSK	12	7	22.27	22.26	22.27	23	1	
6	QPSK	12	13	22.26	22.28	22.22			
6	QPSK	25	0	22.48	22.47	22.51			
6	16QAM	1	0	22.62	22.59	22.61	23	1	
6	16QAM	1	12	22.58	22.63	22.56			
6	16QAM	1	24	22.52	22.57	22.54			
6	16QAM	12	0	21.36	21.39	21.37	22	2	
6	16QAM	12	7	21.39	21.40	21.32			
6	16QAM	12	13	21.54	21.29	21.22			
6	64QAM	1	0	21.56	21.61	21.55	22	2	
6	64QAM	1	24	21.55	21.57	21.52			
6	64QAM	12	0	20.39	20.44	20.42			
6	64QAM	12	13	20.39	20.33	20.36	21	3	
6	64QAM	12	13	20.22	20.25	20.26			
6	64QAM	25	0	20.63	20.56	20.54			
6	256QAM	1	12	18.44	18.43	18.43	19	5	
6	256QAM	1	24	18.43	18.49	18.52			
6	256QAM	1	24	18.43	18.52	18.47			
6	256QAM	12	0	18.41	18.43	18.34	19	5	
6	256QAM	12	7	18.38	18.39	18.31			
6	256QAM	12	13	18.26	18.35	18.31			
6	256QAM	25	0	18.42	18.52	18.48			

Band 14 Ant1 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.97			24	0	
10	QPSK	1	25	22.92					
10	QPSK	1	49	22.85					
10	QPSK	25	0	21.63			23	1	
10	QPSK	25	12	21.78					
10	QPSK	25	25	21.71					
10	QPSK	50	0	21.73					
10	16QAM	1	0	21.93			23	1	
10	16QAM	1	25	22.00					
10	16QAM	1	49	22.03					
10	16QAM	25	0	21.00			22	2	
10	16QAM	25	12	21.06					
10	16QAM	25	25	20.86					
10	16QAM	50	0	20.86					
10	16QAM	50	12	21.08					
10	16QAM	1	26	21.03			22	2	
10	16QAM	1	49	20.98					
10	16QAM	25	0	20.98					
10	16QAM	25	12	21.36			21	3	
10	16QAM	25	25	21.39					
10	256QAM	1	0	18.07			19	5	
10	256QAM	1	25	18.02					
10	256QAM	1	49	17.95					
10	256QAM	25	0	17.99					
10	256QAM	25	12	17.94			19	5	
10	256QAM	25	25	17.87					
10	256QAM	50	0	17.90					
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.98	22.90	22.85	24	0	
5	QPSK	1	12	22.83	22.85	22.85			
5	QPSK	1	24	22.76	22.82	22.83			
5	QPSK	12	0	21.75	21.77	21.71	23	1	
5	QPSK	12	7	21.64	21.65	21.43			
5	QPSK	12	19	21.67	21.67	21.58			
5	QPSK	25	0	21.65	21.75	21.73	23	1	
5	16QAM	1	0	22.01	22.03	21.99	23	1	
5	16QAM	1	12	22.00	22.03	22.00			
5	16QAM	1	24	22.00	22.00	22.03			
5	16QAM	12	0	20.90	20.96	20.86	22	2	
5	16QAM	12	7	20.89	20.90	20.90			
5	16QAM	12	19	20.76	20.79	20.73			
5	16QAM	25	0	20.74	20.79	20.78	22	2	
5	16QAM	25	12	20.62	20.65	20.65			
5	16QAM	1	12	20.94	20.95	20.91	21	3	
5	16QAM	1	24	20.87	20.93	20.92			
5	16QAM	12	0	19.87	19.90	19.90			
5	16QAM	12	7	19.85	19.91	19.97			
5	16QAM	12	19	19.83	19.86	19.79			
5	16QAM	25	0	19.73	19.76	19.76	21	3	
5	256QAM	1	0	17.96	17.97	17.95	19	5	
5	256QAM	1	12	17.89	17.92	17.93			
5	256QAM	1	24	17.88	17.90	17.93			
5	256QAM	12	0	17.93	17.97	17.93			
5	256QAM	12	7	17.83	17.91	17.89	19	5	
5	256QAM	12	19	17.73	17.77	17.74			
5	256QAM	25	0	17.86	17.86	17.86	19	5	

Band 25 Ant1 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.75	16.81	16.75			
10	QPSK	1	48	16.72	16.74	16.74	17.5	0	
10	QPSK	1	96	16.48	16.73	16.65			
20	QPSK	50	0	16.67	16.73	16.56			
20	QPSK	50	24	16.58	16.66	16.58			
20	QPSK	50	50	16.56	16.62	16.56	17.5	0	
20	QPSK	100	0	16.63	16.68	16.57			
20	16QAM	1	0	16.67	16.73	16.64			
20	16QAM	1	48	16.64	16.67	16.70	17.5	0	
20	16QAM	1	96	16.52	16.60	16.53			
20	16QAM	50	24	16.44	16.57	16.47	17.5	0	
20	16QAM	50	50	16.58	16.66	16.49			
20	16QAM	100	0	16.62	16.70	16.57			
20	64QAM	1	0	16.68	16.79	16.58			
20	64QAM	1	48	16.50	16.63	16.62	17.5	0	
20	64QAM	1	96	16.41	16.54	16.48			
20	64QAM	50	0	16.55	16.59	16.57			
20	64QAM	50	24	16.40	16.51	16.49	17.5	0	
20	64QAM	100	0	16.47	16.52	16.57			
20	256QAM	1	0	16.61	16.74	16.67			
20	256QAM	1	48	16.64	16.71	16.60	17.5	0	
20	256QAM	1	96	16.49	16.68	16.47			
20	256QAM	50	24	16.54	16.62	16.55	17.5	0	
20	256QAM	50	50	16.42	16.57	16.39			
20	256QAM	100	0	16.53	16.67	16.47			
Channel									
Frequency (MHz)									
16	QPSK	1	0	16.62	16.66	16.67			
10	QPSK	1	24	16.61	16.63	16.59	17.5	0	
10	QPSK	1	74	16.34	16.69	16.56			
10	QPSK	36	0	16.58	16.65	16.43			
10	QPSK	36	20	16.44	16.62	16.47	17.5	0	
10	QPSK	36	36	16.44	16.52	16.44			
10	QPSK	75	0	16.48	16.75	16.68			
10	16QAM	1	1	16.50	16.75	16.68			
10	16QAM	1	37	16.54	16.64	16.60	17.5	0	
10	16QAM	1	73	16.46	16.66	16.59			
10	16QAM	36	0	16.62	16.64	16.59			
10	16QAM	36	20	16.34	16.45	16.39	17.5	0	
10	16QAM	36	36	16.35	16.46	16.38			
10	16QAM	75	0	16.51	16.68	16.44			
10	64QAM	1	0	16.56	16.66	16.53	17.5	0	
10	64QAM	1	48	16.42	16.61	16.56			
10	64QAM	1	74	16.25	16.45	16.38			
10	64QAM	36	0	16.50	16.46	16.50			
10	64QAM	36	20	16.35	16.46	16.36	17.5	0	
10	64QAM	36	36	16.35	16.50	16.34			
10	64QAM	75	0	16.34	16.56	16.52			
10	256QAM	1	0	16.57	16.75	16.66			
10	256QAM	1	37	16.57	16.75	16.46	17.5	0	
10	256QAM	1	74	16.35	16.54	16.40			
10	256QAM	36	0	16.48	16.61	16.40			
10	256QAM	36	20	16.44	16.48	16.44	17.5	0	
10	256QAM	36	36	16.39	16.46	16.34			
10	256QAM	75	0	16.27	16.45	16.36			
Channel									
Frequency (MHz)									
16	QPSK	1	0	16.64	16.73	16.64			
10	QPSK	1	24	16.63	16.70	16.54	17.5	0	
10	QPSK	1	48	16.43	16.62	16.56			
10	QPSK	12	0	16.53	16.64	16.46			
10	QPSK	25	12	16.44	16.54	16.45	17.5	0	
10	QPSK	25	25	16.52	16.52	16.49			
10	QPSK	80	0	16.48	16.64	16.54			
10	16QAM	1	0	16.50	16.70	16.72	17.5	0	
10	16QAM	1	25	16.49	16.60	16.62			
10	16QAM	1	49	16.32	16.48	16.42			
10	16QAM	25	0	16.43	16.43	16.44	17.5	0	
10	16QAM	25	12	16.35	16.45	16.45			
10	16QAM	25	25	16.49	16.52	16.53			
10	16QAM	50	0	16.42	16.42	16.50			
10	256QAM	1	0	16.49	16.69	16.60			
10	256QAM	1	25	16.54	16.67	16.56	17.5	0	
10	256QAM	1	49	16.38	16.61	16.53			
10	256QAM	12	0	16.48	16.48	16.38			
10	256QAM	25	12	16.47	16.57	16.43	17.5	0	
10	256QAM	25	25	16.38	16.46	16.31			
10	256QAM	50	0	16.22	16.35	16.30			
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.68	16.70	16.75			
5	QPSK	1	12	16.60	16.59	16.54	17.5	0	
5	QPSK	1	24	16.41	16.60	16.57			
5	QPSK	12	0	16.53	16.64	16.46			
5	QPSK	12	7	16.50	16.59	16.53	17.5	0	
5	QPSK	12	13	16.42	16.54	16.42			
5	QPSK	25	0	16.55	16.56	16.53			
5	16QAM	1	0	16.61	16.70	16.66	17.5	0	
5	16QAM	1	12	16.52	16.55	16.66			
5	16QAM	1	24	16.51	16.56	16.63			
5	16QAM	12	0	16.54	16.68	16.53			
5	16QAM	12	7	16.30	16.47	16.35	17.5	0	
5	16QAM	12	13	16.48	16.53	16.38			
5	16QAM	25	0	16.57	16.70	16.45			
5	64QAM	1	0	16.56	16.68	16.45	17.5	0	
5	64QAM	1	12	16.39	16.59	16.59			
5	64QAM	1	24	16.30	16.47	16.33			
5	64QAM	12	0	16.41	16.45	16.52	17.5	0	
5	64QAM	12	7	16.35	16.38	16.44			
5	64QAM	12	13	16.40	16.50	16.46			
5	64QAM	25	0	16.32	16.42	16.50			
5	256QAM	1	0	16.47	16.61	16.52	17.5	0	
5	256QAM	1	12	16.61	16.72	16.46			
5	256QAM	1	24	16.44	16.55	16.39			
5	256QAM	12	0	16.48	16.48	16.47	17.5	0	
5	256QAM	12	7	16.49	16.54	16.52			
5	256QAM	25	0	16.33	16.40	16.29	17.5	0	
5	256QAM	25	0	16.23	16.42	16.31			
Channel									
Frequency (MHz)									
3	QPSK	1	0	16.62	16.71	16.56			
3	QPSK	1	8	16.69	16.69	16.54	17.5	0	
3	QPSK	1	14	16.45	16.67	16.52			
3	QPSK	8	0	16.55	16.59	16.53			
3	QPSK	8	4	16.47	16.52	16.43	17.5	0	
3	QPSK	8	7	16.40	16.56	16.48			
3	QPSK	15	0	16.50	16.65	16.46			
3	16QAM	1	0	16.63	16.71	16.71	17.5	0	
3	16QAM	1	8	16.58	16.58	16.57			
3	16QAM	1	14	16.52	16.46	16.43			
3	16QAM	8	0	16.54	16.60	16.54	17.5	0	
3	16QAM	8	4	16.39	16.50	16.34			
3	16QAM	15	0	16.50	16.64	16.49			
3	64QAM	1	0	16.41	16.67	16.57	17.5	0	
3	64QAM	1	14	16.28	16.49	16.35			
3	64QAM	8	0	16.49	16.49	16.45	17.5	0	
3	64QAM	8	4	16.34	16.44	16.45			
3	64QAM	15	0	16.43	16.54	16.49			
3	256QAM	1	0	16.51	16.61	16.60			
3	256QAM	1	8	16.55	16.73	16.48	17.5	0	
3	256QAM	1	14	16.39	16.62	16.35			
3	256QAM	8	0	16.50	16.52	16.39			
3	256QAM	8	4	16.45	16.59	16.49	17.5	0	
3	256QAM	8	7	16.33	16.53	16.31			
3	256QAM	15	0	16.24	16.42	16.28			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	16.70	16.72	16.66			
1.4	QPSK	1	3	16.65	16.69	16.55	17.5	0	
1.4	QPSK	1	5	16.41	16.67	16.57			
1.4	QPSK	3	0	16.61	16.73	16.42			
1.4	QPSK	3	1	16.49	16.59	16.45			
1.4	QPSK	3	3	16.44	16.52	16.50	17.5	0	
1.4	16QAM	1	0	16.63	16.70	16.72			
1.4	16QAM	1	3	16.55	16.65	16.67	17.5	0	
1.4	16QAM	1	5	16.47	16.63	16.63			
1.4	16QAM	3	0	16.52	16.62	16.62			
1.4	16QAM	3	1	16.39	16.51	16.38	17.5	0	
1.4	16QAM	3	3	16.54	16.54	16.54			
1.4	16QAM	6	0	16.47	16.48	16.49	17.5	0	
1.4	16QAM	6	0	16.54	16.65	16.45			
1.4	16QAM	6	3	16.43	16.51	16.47	17.5	0	
1.4	16QAM	6	5	16.35	16.41	16.34			
1.4	16QAM	6	6	16.43	16.48	16.48			
1.4	16QAM	6	9	16.34	16.43	16.44			
1.4	16QAM	3	3	16.44	16.53	16.45	17.5	0	
1.4	64QAM	1	0	16.37	16.43	16.46			
1.4	64QAM	1	3	16.50	16.57	16.48	17.5	0	
1.4	64QAM	1	5	16.39	16.69	16.56			
1.4	64QAM	3	0	16.50	16.57	16.53			
1.4	64QAM	3	1	16.47	16.47	16.48	17.5	0	
1.4	64QAM	3	3	16.43	16.50	16.52			
1.4	64QAM	6	0	16.47	16.57	16.47			
1.4	64QAM	6	0	16.26	16.35	16.25	17.5	0	

Band 66 Ant1 EC13															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 130072	Power Middle Ch / Freq. 130522	Power High Ch / Freq. 130932	Time-up (ms)	MPR (dB)							
Channel															
Frequency (MHz)															
20	QPSK	1	0	16.97	17.08	16.93	18	0							
20	QPSK	1	49	16.86	17.03	16.85									
20	QPSK	1	99	16.71	17.09	16.87									
20	QPSK	50	0	16.90	16.99	16.75									
20	QPSK	50	24	16.75	16.95	16.72	18	0							
20	QPSK	50	50	16.80	16.82	16.78									
20	QPSK	100	0	16.88	16.93	16.80									
20	16QAM	1	0	16.87	17.05	16.97									
20	16QAM	1	49	16.84	16.94	16.94	18	0							
20	16QAM	1	99	16.77	16.74	16.71									
20	16QAM	50	0	16.90	16.94	16.84									
20	16QAM	50	24	16.65	16.84	16.84									
20	16QAM	50	50	16.91	16.92	16.73	18	0							
20	16QAM	100	0	16.77	16.99	16.78									
20	64QAM	1	0	16.87	16.99	16.78									
20	64QAM	1	49	16.70	16.94	16.90		18	0						
20	64QAM	1	99	16.80	16.86	16.77									
20	64QAM	50	0	16.72	16.82	16.79									
20	64QAM	24	24	16.64	16.73	16.73	18	0							
20	64QAM	50	50	16.83	16.81	16.87									
20	64QAM	100	0	16.73	16.72	16.73									
20	256QAM	1	49	16.62	16.80	16.87	18	0							
20	256QAM	1	99	16.95	16.92	16.85									
20	256QAM	1	99	16.71	16.87	16.71									
20	256QAM	50	50	16.82	16.80	16.68		18	0						
20	256QAM	50	24	16.78	16.88	16.68									
20	256QAM	50	50	16.69	16.88	16.80									
20	256QAM	100	0	16.63	16.71	16.61									
Channel															
Frequency (MHz)															
15	QPSK	1	0	17.15	17.45	17.75	18	0							
15	QPSK	1	37	16.93	17.04	16.87									
15	QPSK	1	74	16.58	16.92	16.79									
15	QPSK	36	0	16.80	16.87	16.66		18	0						
15	QPSK	36	20	16.69	16.77	16.63									
15	QPSK	75	0	16.76	16.76	16.74									
15	16QAM	1	0	16.75	16.89	16.87									
15	16QAM	1	37	16.70	16.83	16.89	18	0							
15	16QAM	1	74	16.79	16.89	16.87									
15	16QAM	36	0	16.83	16.82	16.73									
15	16QAM	36	20	16.53	16.75	16.80		18	0						
15	16QAM	36	39	16.62	16.83	16.71									
15	16QAM	75	0	16.70	16.93	16.71									
15	64QAM	1	0	16.74	16.96	16.72	18	0							
15	64QAM	1	37	16.62	16.82	16.72									
15	64QAM	1	74	16.50	16.90	16.70									
15	64QAM	36	0	16.64	16.76	16.73		18	0						
15	64QAM	36	20	16.60	16.83	16.68									
15	64QAM	36	39	16.00	16.90	16.79									
15	64QAM	75	0	16.62	16.68	16.70		18	0						
15	256QAM	1	0	16.78	16.83	16.71									
15	256QAM	1	37	16.91	16.81	16.79									
15	256QAM	1	74	16.83	16.75	16.68		18	0						
15	256QAM	36	0	16.74	16.73	16.66									
15	256QAM	36	20	16.63	16.82	16.60									
15	256QAM	36	39	16.59	16.82	16.50		18	0						
15	256QAM	75	0	16.57	16.65	16.55									
Channel															
Frequency (MHz)															
10	QPSK	1	0	17.15	17.45	17.75	18	0							
10	QPSK	1	25	16.71	16.94	16.73									
10	QPSK	1	49	16.66	16.93	16.73									
10	QPSK	25	0	16.60	16.93	16.63		18	0						
10	QPSK	25	13	16.61	16.77	16.61									
10	QPSK	25	25	16.70	16.69	16.70									
10	QPSK	50	0	16.62	16.84	16.68		18	0						
10	16QAM	1	0	16.78	16.99	16.84									
10	16QAM	1	25	16.81	16.81	16.89		18	0						
10	16QAM	1	49	16.67	16.71	16.69									
10	16QAM	25	0	16.82	16.91	16.79									
10	16QAM	25	13	16.53	16.77	16.50	18	0							
10	16QAM	25	25	16.81	16.86	16.70									
10	16QAM	50	0	16.66	16.91	16.66									
10	64QAM	1	0	16.73	16.95	16.71		18	0						
10	64QAM	1	25	16.60	16.83	16.77									
10	64QAM	1	49	16.48	16.83	16.72									
10	64QAM	25	0	16.66	16.72	16.74		18	0						
10	64QAM	25	13	16.58	16.83	16.69									
10	64QAM	25	25	16.58	16.68	16.74									
10	64QAM	50	0	16.70	16.90	16.59	18	0							
10	256QAM	1	0	16.75	16.82	16.73									
10	256QAM	1	25	16.88	16.83	16.79									
10	256QAM	1	49	16.60	16.80	16.66		18	0						
10	256QAM	25	0	16.70	16.70	16.53									
10	256QAM	25	13	16.73	16.72	16.87									
10	256QAM	25	25	16.59	16.84	16.56		18	0						
10	256QAM	50	0	16.52	16.57	16.53									
Channel															
Frequency (MHz)															
5	QPSK	1	0	16.82	16.95	16.81	18	0							
5	QPSK	1	12	16.74	16.89	16.81									
5	QPSK	1	24	16.66	16.90	16.76									
5	QPSK	12	0	16.65	16.83	16.66		18	0						
5	QPSK	12	7	16.66	16.72	16.64									
5	QPSK	12	13	16.73	16.77	16.69									
5	QPSK	25	0	16.73	16.86	16.70	18	0							
5	16QAM	1	0	16.72	16.97	16.91									
5	16QAM	1	12	16.79	16.83	16.91		18	0						
5	16QAM	1	24	16.63	16.70	16.61									
5	16QAM	12	0	16.86	16.88	16.80									
5	16QAM	12	7	16.62	16.76	16.54	18	0							
5	16QAM	12	13	16.87	16.85	16.83									
5	16QAM	25	0	16.67	16.93	16.77									
5	64QAM	1	0	16.78	16.89	16.66	18	0							
5	64QAM	1	12	16.68	16.80	16.78									
5	64QAM	1	24	16.52	16.57	16.64									
5	64QAM	12	0	16.58	16.70	16.56		18	0						
5	64QAM	12	7	16.59	16.64	16.69									
5	64QAM	12	13	16.57	16.69	16.75									
5	64QAM	25	0	16.62	16.90	16.86	18	0							
5	256QAM	1	0	16.73	16.79	16.50									
5	256QAM	1	12	16.91	16.84	16.81									
5	256QAM	1	24	16.67	16.74	16.52		18	0						
5	256QAM	12	0	16.74	16.77	16.80									



Band 38 Ant1 EC13													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)					
Channel													
Frequency [MHz]				37950	38050	38150							
20	QPSK	1	0	16.78	17.02	17.03	17.9	0					
20	QPSK	1	40	16.69	16.76	16.77							
20	QPSK	1	80	16.80	16.75	16.76							
20	QPSK	50	0	16.74	16.87	16.86							
20	QPSK	50	24	16.76	16.79	16.85	17.9	0					
20	QPSK	50	50	16.82	16.79	16.86							
20	QPSK	100	0	16.73	17.01	17.01							
20	QPSK	100	24	16.82	16.68	16.76							
20	16QAM	1	40	16.86	16.71	16.82	17.9	0					
20	16QAM	1	80	16.77	16.80	16.75							
20	16QAM	50	0	16.81	16.69	16.77							
20	16QAM	50	24	16.81	16.80	16.79							
20	16QAM	50	50	16.85	16.89	16.86	17.9	0					
20	16QAM	100	0	16.85	16.79	16.86							
20	16QAM	100	24	16.82	16.73	16.84							
20	16QAM	100	50	16.87	16.68	16.83							
20	64QAM	1	0	16.87	16.68	16.83	17.9	0					
20	64QAM	1	40	16.86	16.70	16.75							
20	64QAM	50	0	16.87	16.70	16.79							
20	64QAM	50	24	16.81	16.80	16.87							
20	256QAM	1	0	16.73	16.89	17.01	17.9	0					
20	256QAM	1	99	16.83	16.76	16.89							
20	256QAM	50	0	16.73	16.86	16.94							
20	256QAM	50	24	16.81	16.75	16.78							
20	256QAM	50	50	16.88	16.83	16.88	17.9	0					
20	256QAM	100	0	16.86	16.80	16.86							
20	256QAM	100	24	16.82	16.73	16.84							
20	256QAM	100	50	16.87	16.69	16.83							
Channel													
Frequency [MHz]				37950	38050	38175							
15	QPSK	1	0	16.79	16.97	17.04	17.9	0					
15	QPSK	1	37	16.70	16.74	16.82							
15	QPSK	1	74	16.85	16.78	16.86							
15	QPSK	36	0	16.73	16.96	17.03							
15	QPSK	36	20	16.61	16.75	16.80	17.9	0					
15	QPSK	36	39	16.65	16.70	16.81							
15	QPSK	75	0	16.66	16.94	17.00							
15	16QAM	1	0	16.83	16.88	16.71							
15	16QAM	1	37	16.83	16.74	16.84	17.9	0					
15	16QAM	1	74	16.73	16.91	16.93							
15	16QAM	36	0	16.66	16.92	16.96							
15	16QAM	36	20	16.64	16.73	16.84							
15	16QAM	36	39	16.65	16.60	16.86	17.9	0					
15	16QAM	75	0	16.62	16.89	16.96							
15	16QAM	75	20	16.62	16.80	16.82							
15	16QAM	75	39	16.72	16.87	16.93							
15	64QAM	1	0	16.86	16.69	16.84	17.9	0					
15	64QAM	1	0	16.70	16.70	16.83							
15	64QAM	1	37	16.77	16.92	17.02							
15	64QAM	36	0	16.67	16.76	16.82							
15	64QAM	36	20	16.67	16.69	16.86	17.9	0					
15	64QAM	36	39	16.69	16.73	16.81							
15	64QAM	75	0	16.65	16.76	16.82							
15	64QAM	75	20	16.62	16.78	16.80							
15	256QAM	1	0	16.57	16.96	17.01	17.9	0					
15	256QAM	1	37	16.61	16.75	16.86							
15	256QAM	1	74	16.94	16.84	16.81							
15	256QAM	36	20	16.54	16.79	16.81							
15	256QAM	36	39	16.71	16.76	16.86	17.9	0					
15	256QAM	75	0	16.71	16.85	16.87							
15	256QAM	75	20	16.69	16.82	16.86							
15	256QAM	75	39	16.80	16.87	17.00							
Channel													
Frequency [MHz]				37950	38050	38200							
10	QPSK	1	0	16.80	17.02	17.04	17.9	0					
10	QPSK	1	25	16.69	16.72	16.84							
10	QPSK	1	49	16.79	16.79	16.80							
10	QPSK	25	0	16.73	17.02	16.98							
10	QPSK	25	12	16.68	16.76	16.76	17.9	0					
10	QPSK	25	37	16.85	16.79	16.75							
10	QPSK	50	0	16.72	16.94	16.95							
10	16QAM	1	0	16.82	16.84	16.86							
10	16QAM	1	25	16.62	16.71	16.77	17.9	0					
10	16QAM	1	49	16.71	16.94	16.95							
10	16QAM	25	0	16.65	16.69	16.80							
10	16QAM	25	12	16.80	16.79	16.82							
10	16QAM	25	37	16.80	16.66	16.84	17.9	0					
10	16QAM	50	0	16.70	16.72	16.81							
10	16QAM	50	12	16.86	16.81	16.78							
10	16QAM	50	37	16.86	16.70	16.79							
10	64QAM	1	0	16.86	16.69	16.73	17.9	0					
10	64QAM	1	25	16.72	16.85	17.00							
10	64QAM	25	0	16.64	16.71	16.78							
10	64QAM	25	12	16.73	16.77	16.78							
10	64QAM	25	37	16.83	16.71	16.78	17.9	0					
10	64QAM	50	0	16.82	16.76	16.87							
10	64QAM	50	12	16.82	16.76	16.87							
10	64QAM	50	37	16.82	16.71	16.78							
10	256QAM	1	0	16.65	16.95	16.96	17.9	0					
10	256QAM	1	49	16.86	16.76	16.85							
10	256QAM	25	0	16.71	16.86	16.95							
10	256QAM	25	12	16.82	16.79	16.77							
10	256QAM	25	37	16.75	16.75	16.87	17.9	0					
10	256QAM	50	0	16.67	16.92	16.95							
10	256QAM	50	12	16.83	16.83	16.83							
10	256QAM	50	37	16.83	16.83	16.83							
Channel													
Frequency [MHz]				37950	38050	38225							
5	QPSK	1	0	16.73	17.02	17.04	17.9	0					
5	QPSK	1	12	16.80	16.78	16.82							
5	QPSK	1	24	16.87	16.80	16.86							
5	QPSK	12	0	16.76	16.88	16.90							
5	QPSK	12	7	16.89	16.77	16.80	17.9	0					
5	QPSK	12	13	16.84	16.72	16.78							
5	QPSK	25	0	16.69	16.86	16.86							
5	16QAM	1	0	16.88	16.71	16.80							
5	16QAM	1	12	16.82	16.76	16.77	17.9	0					
5	16QAM	12	0	16.70	16.89	16.95							
5	16QAM	12	7	16.82	16.82	16.79	17.9	0					
5	16QAM	12	13	16.84	16.83	17.03							
5	16QAM	25	0	16.70	16.79	16.86	17.9	0					
5	16QAM	25	7	16.89	16.76	16.79							
5	64QAM	1	0	16.88	16.68	16.86	17.9	0					
5	64QAM	1	12	16.73	16.92	17.02							
5	64QAM	12	0	16.63	16.79	16.79	17.9	0					
5	64QAM	12	7	16.70	16.71	16.83							
5	64QAM	12	13	16.76	16.76	16.86	17.9	0					
5	64QAM	12	13	16.85	16.70	16.72							
5	64QAM	25	0	16.58	16.78	16.80	17.9	0					
5	64QAM	25	7	16.85	16.81	17.03							
5	256QAM	1	0	16.62	16.71	16.88	17.9	0					
5	256QAM	1	24	16.94	16.78	16.86							
5	256QAM	12	0	16.65	16.87	17.00	17.9	0					
5	256QAM	12	7	16.55	16.79	16.79							
5	256QAM	25	0	16.73	16.94	16.96	17.9	0					
5	256QAM	25	0	16.73	16.94	16.96							



Band 41 Ant2 Default											
RF (MHz)	Modulation	RB Size	RB Offset	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Turn-up test (dBm)	MPR (dB)	
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.43	22.57	22.65	22.69	22.76			
20	QPSK	1	49	22.65	22.64	22.73	22.66	22.62	24	0	
20	QPSK	1	99	22.62	22.68	22.64	22.63	22.65			
20	QPSK	50	0	21.58	21.67	21.97	21.77	21.78			
20	QPSK	50	24	21.78	21.79	21.87	21.81	21.74			
20	QPSK	50	49	21.62	21.72	21.87	21.78	21.71	23	1	
20	QPSK	100	0	21.62	21.61	21.61	21.72	21.68			
20	16QAM	1	0	21.63	21.61	21.62	21.78	21.61			
20	16QAM	1	49	21.79	21.82	21.86	21.76	21.77	23	1	
20	16QAM	1	99	21.71	21.77	21.82	21.68	21.74			
20	16QAM	50	0	20.65	20.69	20.67	20.61	20.66			
20	16QAM	50	24	20.85	20.72	20.83	20.77	20.68	22	2	
20	16QAM	50	50	20.66	20.69	20.67	20.69	20.60			
20	16QAM	100	0	20.67	20.69	20.66	20.67	20.62			
20	16QAM	1	0	20.53	20.54	20.56	20.53	20.55			
20	16QAM	1	49	20.54	20.48	20.48	20.56	20.53	22	2	
20	16QAM	1	99	20.32	20.44	20.51	20.36	20.45			
20	16QAM	50	0	19.87	19.90	20.01	19.86	19.92			
20	16QAM	50	24	19.77	19.75	19.88	19.73	19.75			
20	16QAM	50	50	19.83	19.88	19.84	19.85	19.79	21	3	
20	16QAM	100	0	19.80	19.91	19.95	19.88	19.84			
20	25QAM	1	0	17.24	17.74	17.82	17.74	17.72			
20	25QAM	1	49	17.82	17.59	17.73	17.62	17.59	19	5	
20	25QAM	1	99	17.58	17.60	17.69	17.60	17.63			
20	25QAM	50	0	17.61	17.69	17.82	17.68	17.68			
20	25QAM	50	24	17.69	17.82	17.96	17.87	17.84	19	5	
20	25QAM	50	50	17.78	17.81	17.89	17.80	17.78			
20	25QAM	100	0	17.83	17.81	17.89	17.80	17.78			
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.52	22.43	22.74	22.63	22.64			
15	QPSK	1	37	22.69	22.58	22.67	22.61	22.56	24	0	
15	QPSK	1	74	22.46	22.53	22.59	22.58	22.62			
15	QPSK	36	0	21.44	21.58	21.83	21.72	21.65			
15	QPSK	36	20	21.69	21.70	21.73	21.70	21.64	23	1	
15	QPSK	75	0	21.52	21.61	21.86	21.67	21.58			
15	16QAM	1	0	21.68	21.67	21.81	21.72	21.67			
15	16QAM	1	37	21.68	21.70	21.80	21.64	21.62	23	1	
15	16QAM	1	74	21.63	21.63	21.71	21.63	21.64			
15	16QAM	36	0	20.74	20.81	20.84	20.85	20.84			
15	16QAM	36	20	20.69	20.64	20.66	20.66	20.62	22	2	
15	16QAM	36	39	20.59	20.61	20.71	20.54	20.52			
15	16QAM	75	0	20.77	20.84	20.86	20.73	20.69			
15	16QAM	75	0	20.55	20.43	20.61	20.48	20.55	22	2	
15	16QAM	1	37	20.48	20.43	20.50	20.41	20.39			
15	16QAM	1	74	20.31	20.39	20.39	20.37	20.36			
15	16QAM	36	0	19.75	19.78	19.87	19.72	19.77	21	3	
15	16QAM	36	20	19.72	19.66	19.79	19.62	19.62			
15	16QAM	36	39	19.69	19.69	19.78	19.62	19.63			
15	16QAM	75	0	19.73	19.82	19.90	19.83	19.75			
15	25QAM	1	0	17.66	17.69	17.79	17.62	17.63	19	5	
15	25QAM	1	37	17.42	17.50	17.61	17.46	17.49			
15	25QAM	1	74	17.52	17.47	17.56	17.50	17.50			
15	25QAM	36	0	17.86	17.85	17.96	17.89	17.84			
15	25QAM	36	20	17.84	17.88	17.88	17.82	17.79	19	5	
15	25QAM	36	39	17.68	17.74	17.85	17.68	17.62			
15	25QAM	75	0	17.79	17.82	17.90	17.81	17.78			
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.20	22.42	22.53	22.55	22.72			
10	QPSK	1	25	22.52	22.50	22.59	22.60	22.61	24.00	0	
10	QPSK	1	49	22.54	22.48	22.63	22.64	22.63			
10	QPSK	12	0	21.48	21.62	21.81	21.72	21.65			
10	QPSK	25	12	21.68	21.65	21.83	21.66	21.58	23	1	
10	QPSK	25	25	21.66	21.63	21.76	21.72	21.60			
10	16QAM	1	0	21.42	21.57	21.81	21.64	21.57			
10	16QAM	1	25	21.78	21.75	21.79	21.70	21.67	23	1	
10	16QAM	1	25	21.70	21.75	21.79	21.72	21.67			
10	16QAM	12	0	20.73	20.80	20.75	20.73	20.69	22	2	
10	16QAM	12	25	20.54	20.54	20.71	20.62	20.66			
10	16QAM	50	0	20.78	20.78	20.88	20.74	20.80			
10	16QAM	50	25	20.62	20.62	20.64	20.43	20.44	22	2	
10	16QAM	1	49	20.29	20.30	20.36	20.24	20.34			
10	16QAM	25	0	19.75	19.81	19.88	19.74	19.82			
10	16QAM	25	12	19.72	19.86	19.81	19.69	19.66	21	3	
10	16QAM	25	25	19.74	19.75	19.87	19.78	19.67			
10	16QAM	50	0	19.71	19.88	19.80	19.75	19.79			
10	25QAM	1	0	17.62	17.68	17.74	17.66	17.68	19	5	
10	25QAM	1	25	17.46	17.46	17.60	17.47	17.54			
10	25QAM	1	49	17.49	17.57	17.57	17.53	17.52			
10	25QAM	25	0	17.63	17.65	17.78	17.68	17.68			
10	25QAM	25	12	17.64	17.75	17.81	17.61	17.70	19	5	
10	25QAM	25	25	17.53	17.72	17.79	17.72	17.68			
10	25QAM	50	0	17.73	17.87	17.88	17.86	17.78			
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.50	22.42	22.73	22.65	22.72			
5	QPSK	1	12	22.52	22.55	22.64	22.56	22.47	24.00	0	
5	QPSK	1	24	22.48	22.49	22.63	22.58	22.55			
5	QPSK	12	0	21.42	21.64	21.80	21.62	21.62			
5	QPSK	12	7	21.69	21.65	21.77	21.74	21.74	23	1	
5	QPSK	12	13	21.56	21.61	21.75	21.65	21.58			
5	QPSK	25	0	21.58	21.62	21.87	21.63	21.67			
5	16QAM	1	0	21.73	21.68	21.87	21.74	21.75	23	1	
5	16QAM	1	12	21.74	21.75	21.72	21.64	21.73			
5	16QAM	1	24	21.69	21.73	21.74	21.55	21.63			
5	16QAM	12	0	20.59	20.70	20.85	20.76	20.80			
5	16QAM	12	7	20.67	20.65	20.76	20.66	20.65	22	2	
5	16QAM	12	13	20.54	20.62	20.69	20.52	20.59			
5	16QAM	25	0	20.78	20.78	20.83	20.75	20.78			
5	16QAM	25	0	20.55	20.42	20.52	20.40	20.47	22	2	
5	16QAM	1	12	20.42	20.43	20.47	20.39	20.40			
5	16QAM	1	24	20.27	20.37	20.46	20.27	20.32			
5	16QAM	12	0	19.74	19.78	19.86	19.62	19.65	21	3	
5	16QAM	12	7	19.62	19.62	19.76	19.65	19.65			
5	16QAM	12	13	19.78	19.83	19.90	19.71	19.73			
5	16QAM	25	0	19.77	19.83	19.87	19.84	19.75			
5	25QAM	1	0	17.67	17.60	17.71	17.60	17.63			
5	25QAM	1	12	17.48	17.51	17.66	17.58	17.60	19	5	
5	25QAM	1	24	17.64	17.51	17.57	17.51	17.51			
5	25QAM	12	0	17.86	17.83	17.93	17.82	17.86			
5	25QAM	12	7	17.76	17.79	17.84	17.78	17.78	19	5	
5	25QAM	12	13	17.86	17.77	17.76	17.65	17.66			
5	25QAM	25	0	17.76	17.87	17.83	17.81	17.70			

Band 41 HPUE Ant2 Default											
RF (MHz)	Modulation	RB Size	RB Offset	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Turn-up test (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.51	25.68	25.52	25.63	25.66			
20	QPSK	1	49	25.61	25.56	25.70	25.62	25.63	27	0	
20	QPSK	1	99	25.59	25.61	25.65	25.59	25.62			
20	QPSK	50	1	24.98	24.70	25.02	24.78	24.77			
20	QPSK	50	24	24.78	24.90	24.65	24.70	24.74	26	1	
20	QPSK	100	1	24.98	24.70	25.02	24.78	24.77			
20	QPSK	100	5	24.65	24.66	24.55	24.75	24.73			
20	16QAM	1	0	25.14	24.89	25.08	25.14	25.21			
20	16QAM	1	49	25.08	24.94	25.13	25.02	25.10	26	1	
20	16QAM	1	99	24.94	24.79	25.18	25.05	25.15			
20	16QAM	50	1	23.89	23.72	23.97	23.88	23.83			
20	16QAM	50	24	23.75	23.63	23.88	23.78	23.75	25	2	
20	16QAM	50	50	23.66	23.52	23.77	23.70	23.69			
20	16QAM	100	1	23.87	23.67	23.96	23.86	23.83			
20	16QAM	100	5	23.75	23.63	23.88	23.78	23.75	25	2	
20	64QAM	1	49	23.69	23.56	23.81	23.71	23.77	25	2	
20	64QAM	1	99	23.64	23.53	23.86	23.74	23.77			
20	64QAM	50	5	23.91	22.68	22.98	22.92	22.83			
20	64QAM	50	24	23.81	22.55	22.85	22.81	22.79	24	3	
20	256QAM	1	0	22.82	22.71	23.04	22.87	22.90			
20	256QAM	1	49	22.87	22.75	23.08	22.89	22.92	22	5	
20	256QAM	1	99	22.87	22.75	23.08	22.89	22.90			
20	256QAM	50	24	20.87	20.69	20.55	20.51	20.50			
20	256QAM	50	50	20.74	20.62	20.88	20.80	20.82	22	5	
20	256QAM	100	50	20.81	20.65	20.73	20.77	20.87			
Channel											
Frequency (MHz)											
25	QPSK	1	0	25.13	25.14	25.14	25.12	25.13			
25	QPSK	1	49	25.25	25.06	25.22	25.09	25.11	27	0	
25	QPSK	1	97	25.08	25.41	25.67	25.59	25.56			
25	QPSK	1	74	24.46	24.46	25.05	24.47	24.45			
25	QPSK	36	20	24.46	24.46	25.05	24.46	24.44	26	1	
25	QPSK	36	20	24.64	24.53	24.76	24.64	24.61			
25	QPSK	36	20	24.53	24.44	24.67	24.53	24.51			
25	QPSK	75	5	24.58	24.54	24.81	24.62	24.69			
25	16QAM	1	0	25.02	24.83	25.17	25.08	25.15			
25	16QAM	1	49	24.94	24.78	25.14	25.04	25.08	25	2	
25	16QAM	1	74	24.97	24.74	25.11	24.98	25.03			
25	16QAM	36	0	23.74	23.66	23.91	23.78	23.74			
25	16QAM	36	20	23.66	23.69	23.93	23.78	23.87	25	2	
25	16QAM	36	39	23.52	23.84	23.70	23.59	23.57			
25	16QAM	75	23	23.60	23.59	23.86	23.70	23.79			
25	64QAM	1	0	23.60	23.49	23.82	23.64	23.65			
25	64QAM	1	37	23.57	23.49	23.69	23.59	23.67	25	2	
25	64QAM	1	74	23.64	23.43	23.83	23.63	23.67			
25	64QAM	36	0	22.82	22.66	22.85	22.78	22.73			
25	64QAM	36	20	22.88	22.49	22.76	22.69	22.67	24	3	
25	64QAM	36	20	22.84	22.51	22.87	22.82	22.87			
25	64QAM	75	0	22.68	22.61	22.87	22.73	22.65			
25	256QAM	1	0	20.73	20.66	20.91	20.75	20.76			
25	256QAM	1	37	20.69	20.49	20.73	20.67	20.68	22	5	
25	256QAM	1	74	20.59	20.56	20.69	20.61	20.58			
25	256QAM	36	0	20.73	20.66	20.91	20.75	20.76			
25	256QAM	36	20	20.83	20.52	20.67	20.73	20.75			
25	256QAM	36	39	20.68	20.59	20.74	20.72	20.74	22	5	
25	256QAM	75	0	20.67	20.57	20.72	20.67	20.67			
Channel											
Frequency (MHz)											
30	QPSK	1	0	25.13	25.14	25.14	25.12	25.13			
30	QPSK	1	25	25.30	25.46	25.57	25.59	25.59	27	00	0
30	QPSK	1	50	25.44	25.43	25.43	25.43	25.43			
30	QPSK	25	16	24.54	24.64	24.88	24.72	24.65			
30	QPSK	25	12	24.68	24.55	24.79	24.62	24.60	26	1	
30	QPSK	25	12	24.61	24.54	24.78	24.61	24.57			
30	QPSK	50	5	24.60	24.61	24.87	24.62	24.67			
30	16QAM	1	0	25.11	24.96	25.17	24.99	25.15			
30	16QAM	1	25	25.10	24.92	25.12	24.94	25.02	26	1	
30	16QAM	1	49	24.96	24.85	25.09	24.97	24.97			
30	16QAM	25	5	23.83	23.40	23.87	23.79	23.74	25	2	
30	16QAM	25	12	23.81	23.41	23.86	23.78	23.74			
30	16QAM	25	20	23.83	23.45	23.64	23.51	23.65			
30	64QAM	1	0	23.81	23.43	23.86	23.68	23.74			
30	64QAM	1	5	23.63	23.54	23.78	23.70	23.68			
30	64QAM	1	25	23.55	23.47	23.73	23.65	23.73	25	2	
30	64QAM	1	49	23.61	23.37	23.68	23.60	23.60			
30	64QAM	25	5	22.77	22.55	22.84	22.80	22.78			
30	64QAM	25	12	22.72	22.52	22.72	22.70	22.67	24	3	
30	64QAM	25	20	22.78	22.52	22.78	22.76	22.72			
30	64QAM	50	0	22.74	22.53	22.65	22.78	22.67			
30	256QAM	1	0	20.76	20.69	20.91	20.75	20.76	22	5	
30	256QAM	1	25	20.73	20.51	20.50	20.61	20.75			
30	256QAM	1	49	20.80	20.44	20.74	20.70	20.67			
30	256QAM	25	5	20.80	20.52	20.67	20.78	20.68			
30	256QAM	25	12	20.77	20.62	20.62	20.77	20.81	22	5	
30	256QAM	25	20	20.80	20.54	20.73	20.73	20.75			
30	256QAM	50	50	20.69	20.50	20.70	20.77	20.87			
Channel											
Frequency (MHz)											
5	QPSK	1	0	25.46	25.57	25.72	25.63	25.65			
5	QPSK	1	12	24.88	25.52	25.63	25.52	25.52	27	00	0
5	QPSK	1	24	24.68	24.68	24.68	24.68	24.68			
5	QPSK	12	5	24.50	24.57	24.84	24.61	24.63			
5	QPSK	12	7	24.70	24.59	24.79	24.67	24.68	26	1	
5	QPSK	25	1	24.50	24.38	24.65	24.44	24.50			
5	QPSK	25	0	24.60	24.53	24.82	24.61	24.57			
5	QPSK	25	12	25.07	24.90	25.22	25.04	25.10			
5	16QAM	1	12	25.07	24.90	25.22	25.04	25.10	26	1	
5	16QAM	1	24	24.94	24.97	25.08	24.96	24.96			
5	16QAM	12	7	25.06	24.89	25.21	25.03	25.10			
5	16QAM	12	7	25.04	24.91	25.17	25.03	25.06	25	2	
5	16QAM	12	13	25.04	24.94	25.06	25.04	25.07			
5	64QAM	1	0	23.83	23.53	23.80	23.64	23.65			
5	64QAM	1	12	23.87	23.64	23.87	23.62	23.65	25	2	
5	64QAM	1	24	23.80	23.60	23.81	23.60	23.62			
5	64QAM	12	5	22.80	22.84	22.90	22.81	22.78			
5	64QAM	12	7	22.73	22.72	22.73	22.75	22.72			
5	64QAM	12	13	22.81	22.71	22.72	22.78	22.72			
5	64QAM	25	0	22.64	22.54	22.77	22.72	22.65			
5	256QAM	1	0	20.76	20.69	20.91	20.75	20.76	22	5	
5	256QAM	1	24	20.65	20.45	20.70	20.68	20.70			
5	256QAM	12	5	20.74	20.66	20.91	20.75	20.78			
5	256QAM	12	7	20.79	20.62	20.59	20.77	20.87	22	5	
5	256QAM	12	13	20.81	20.54	20.77	20.69	20.73			
5	256QAM	25	0	20.71	20.60	20.77	20.77	20.68			



Band 48_FCC Ant4 EC13														
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)	MFR (dB)					
Channel				56340	56930	56150	56640							
Frequency (MHz)				56340	56930	56150	56640							
20	QPSK	1	0	18.11	18.23	18.15	18.11	19	0					
20	QPSK	1	48	18.08	18.15	18.07	17.98							
20	QPSK	1	99	17.96	18.02	17.92	18.03							
20	QPSK	50	0	18.11	18.21	18.11	18.07							
20	QPSK	50	24	18.01	18.12	18.03	17.94	19	0					
20	QPSK	50	50	18.02	18.05	17.94	18.05							
20	QPSK	100	0	18.12	18.20	18.14	18.08							
20	HQAM	1	0	18.03	18.10	18.07	17.95							
20	HQAM	1	48	18.02	18.04	17.99	18.01	19	0					
20	HQAM	1	99	18.10	18.28	18.17	18.13							
20	HQAM	50	0	18.03	18.13	18.06	17.93							
20	HQAM	50	24	18.03	18.05	17.99	18.04							
20	HQAM	50	50	18.14	18.26	18.18	18.13	19	0					
20	HQAM	100	0	18.05	18.12	18.11	17.94							
20	HQAM	1	0	17.99	18.02	17.92	18.08							
20	HQAM	1	48	18.14	18.28	18.21	18.06							
20	HQAM	1	99	18.01	18.13	18.08	17.95	19	0					
20	HQAM	50	0	17.99	18.02	17.92	18.08							
20	HQAM	50	24	18.13	18.25	18.12	18.08							
20	HQAM	50	50	18.02	18.09	18.02	18.00							
20	HQAM	100	0	18.02	18.19	17.96	18.07	19	0					
20	25GQAM	1	0	18.15	18.18	18.07	18.15							
20	25GQAM	1	48	18.07	18.16	18.08	18.07							
20	25GQAM	1	99	18.02	18.06	18.01	17.91							
20	25GQAM	50	0	18.09	18.18	18.17	18.05	19	0					
20	25GQAM	50	24	18.02	18.13	18.08	18.06							
20	25GQAM	50	50	18.04	18.12	18.03	17.95							
20	25GQAM	100	0	18.06	18.14	18.11	17.93							
Channel				56315	56920	56160	56665	Tune-up limit (dBm)	MFR (dB)					
Frequency (MHz)				56315	56920	56160	56665							
15	QPSK	1	0	18.03	18.17	18.02	18.03	19	0					
15	QPSK	1	37	17.93	18.03	17.94	17.82							
15	QPSK	74	0	17.88	17.90	17.82	17.89							
15	QPSK	36	0	17.98	18.12	18.09	17.99							
15	QPSK	36	25	17.89	18.04	17.94	17.85	19	0					
15	QPSK	36	50	17.93	17.92	17.84	17.89							
15	QPSK	75	0	18.06	18.15	18.04	18.03							
15	HQAM	1	0	17.88	18.05	17.93	17.81							
15	HQAM	1	37	17.85	17.82	17.88	17.83	19	0					
15	HQAM	1	74	17.95	18.18	18.03	18.04							
15	HQAM	36	0	17.90	18.06	17.91	17.84							
15	HQAM	36	25	17.93	17.94	17.90	17.86							
15	HQAM	36	50	18.05	18.13	18.10	17.99	19	0					
15	HQAM	75	0	17.92	18.04	17.98	17.87							
15	HQAM	1	0	17.87	17.92	17.89	17.89							
15	HQAM	1	37	18.09	18.16	18.14	17.96							
15	HQAM	1	74	17.87	17.96	17.91	17.88	19	0					
15	25GQAM	1	0	18.08	18.13	17.93	18.09							
15	25GQAM	1	37	17.95	18.05	17.93	18.00							
15	25GQAM	1	74	17.97	17.96	17.91	17.88							
15	25GQAM	36	0	17.98	18.11	18.03	18.00	19	0					
15	25GQAM	36	25	17.89	18.05	17.94	17.94							
15	25GQAM	36	50	17.95	18.05	17.97	17.85							
15	25GQAM	75	0	18.00	18.06	18.00	17.84							
Channel				56300	56915	56165	56650	Tune-up limit (dBm)				MFR (dB)		
Frequency (MHz)				56300	56915	56165	56650							
10	QPSK	1	0	18.04	18.22	18.09	18.04	19	0					
10	QPSK	1	25	17.98	18.08	17.95	17.89							
10	QPSK	1	49	17.87	17.86	17.89	17.88							
10	QPSK	36	0	18.01	18.07	17.98	17.94							
10	QPSK	25	12	17.94	18.04	17.93	17.85	19	0					
10	QPSK	25	25	17.91	17.98	17.83	17.96							
10	QPSK	50	0	18.06	18.22	18.09	18.02							
10	HQAM	1	0	17.94	18.01	17.98	17.85							
10	HQAM	1	25	17.93	17.99	17.92	17.92	19	0					
10	HQAM	1	49	17.99	18.13	18.10	18.04							
10	HQAM	25	0	17.90	18.00	18.00	17.84							
10	HQAM	25	12	17.97	17.94	17.86	17.87							
10	HQAM	25	25	18.04	18.13	18.12	17.99	19	0					
10	HQAM	50	0	17.93	17.98	18.04	17.88							
10	HQAM	1	0	17.90	17.85	17.93	17.85							
10	HQAM	1	25	18.08	18.19	18.12	17.98							
10	HQAM	1	49	17.90	18.01	17.95	17.89	19	0					
10	HQAM	25	0	17.87	17.90	17.85	17.86							
10	HQAM	25	12	17.97	17.94	17.86	17.87							
10	HQAM	50	0	17.88	17.86	17.88	17.86							
10	25GQAM	1	0	18.03	18.10	17.99	18.04	19	0					
10	25GQAM	1	25	17.93	18.07	17.89	17.89							
10	25GQAM	1	49	17.93	17.92	17.90	17.88							
10	25GQAM	25	0	17.99	18.04	18.04	17.98							
10	25GQAM	25	12	17.97	18.03	17.98	18.00	19	0					
10	25GQAM	25	25	17.89	18.00	17.95	17.97							
10	25GQAM	50	0	17.99	18.00	18.04	17.97							
10	25GQAM	50	0	18.05	18.10	18.01	18.03							
Channel				5627.5	5697	5643	5697.5	Tune-up limit (dBm)				MFR (dB)		
Frequency (MHz)				5627.5	5697	5643	5697.5							
5	QPSK	1	0	18.04	18.15	18.09	18.02	19	0					
5	QPSK	1	12	17.94	18.06	18.00	17.83							
5	QPSK	1	24	17.85	17.92	17.79	17.92							
5	QPSK	12	0	17.99	18.15	18.02	17.97							
5	QPSK	12	7	17.89	18.06	17.95	17.89	19	0					
5	QPSK	12	13	17.86	17.86	17.85	17.93							
5	QPSK	25	0	17.98	18.22	18.07	18.01							
5	HQAM	1	0	17.92	17.98	17.98	17.81							
5	HQAM	1	12	17.93	17.93	17.90	17.89	19	0					
5	HQAM	1	24	18.01	18.20	18.12	18.05							
5	HQAM	12	0	17.95	18.08	18.01	17.81							
5	HQAM	12	7	17.89	17.94	17.87	17.90							
5	HQAM	12	13	17.99	18.20	18.04	17.99	19	0					
5	HQAM	25	0	17.93	17.99	17.96	17.84							
5	HQAM	1	0	17.84	17.91	17.88	17.97							
5	HQAM	1	12	18.04	18.17	18.07	17.97							
5	HQAM	1	24	17.89	17.99	17.97	17.83	19	0					
5	HQAM	12	0	17.88	17.82	17.81	17.97							
5	HQAM	12	13	17.89	18.03	17.87	17.87							
5	HQAM	36	0	17.89	17.86	17.86	17.87							
5	25GQAM	1	0	18.07	18.08	17.97	18.03	19	0					
5	25GQAM	1	12	17.98	18.04	17.95	17.95							
5	25GQAM	1	24	17.95	17.97	17.94	17.77							
5	25GQAM	1	25	18.02	18.13	18.04	18.04	19	0					
5	25GQAM	12	7	17.90	18.06	18.00	18.00							
5	25GQAM	12	13	17.97	18.00	17.92	17.97	19	0					
5	25GQAM	12	25	17.97	18.09	18.04	18.04							



Band 48_FCC Ant5 Default											
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 band (dBm)	MPR (dB)		
Channel				56340	56360	56380	56400	Tune-up band (dBm)	MPR (dB)		
Frequency (MHz)				56340	56360	56380	56400				
20	QPSK	1	0	22.74	22.59	22.76	22.59	24	0		
20	QPSK	1	49	22.57	22.79	22.57	22.39				
20	QPSK	8	89	22.70	22.83	22.61	22.51				
20	QPSK	50	5	21.87	21.79	21.76	21.57				
20	QPSK	50	24	21.70	21.71	21.76	21.87	23	1		
20	QPSK	50	80	21.75	21.70	21.70	21.68				
20	QPSK	100	0	21.65	21.71	21.70	21.50				
20	16QAM	1	5	21.84	21.87	21.87	21.52				
20	16QAM	1	49	21.88	21.97	21.80	21.57	23	1		
20	16QAM	1	99	21.88	21.91	21.72	21.58				
20	16QAM	25	0	20.74	20.86	20.76	20.71				
20	16QAM	50	24	20.84	21.01	20.84	20.58				
20	16QAM	50	50	20.69	20.84	20.78	20.69	22	2		
20	16QAM	100	0	20.65	20.84	20.67	20.57				
20	64QAM	1	5	20.75	20.59	20.58	20.55				
20	64QAM	1	49	20.75	20.92	20.75	20.61				
20	64QAM	1	99	20.74	20.93	20.84	20.57	22	2		
20	64QAM	25	0	19.72	19.93	19.70	19.70				
20	64QAM	50	24	19.86	19.90	19.80	19.57				
20	64QAM	50	80	19.83	19.84	19.80	19.65				
20	64QAM	100	0	19.71	19.83	19.81	19.55	21	3		
20	256QAM	1	5	17.72	17.92	17.89	17.51				
20	256QAM	1	49	17.81	17.78	17.89	17.85				
20	256QAM	1	99	17.84	17.88	17.78	17.70				
20	256QAM	25	0	17.72	18.00	17.69	17.52	19	5		
20	256QAM	50	24	17.78	17.88	17.85	17.53				
20	256QAM	50	50	17.87	18.00	17.75	17.60				
20	256QAM	100	0	17.77	17.95	17.89	17.58				
Channel				56315	56330	56350	56365	Tune-up band (dBm)	MPR (dB)		
Frequency (MHz)				56315	56330	56350	56365				
15	QPSK	1	0	22.70	22.52	22.60	22.52	24	0		
15	QPSK	1	37	22.56	22.74	22.37	22.38				
15	QPSK	1	74	22.80	22.71	22.60	22.40				
15	QPSK	36	5	21.49	21.66	21.65	21.54				
15	QPSK	36	20	21.89	21.59	21.51	21.66	23	1		
15	QPSK	36	36	21.54	21.71	21.68	21.62				
15	QPSK	75	0	21.87	21.52	21.57	21.37				
15	16QAM	1	5	21.86	21.73	21.84	21.66				
15	16QAM	1	37	21.73	21.88	21.82	21.40	23	1		
15	16QAM	1	74	21.49	21.83	21.72	21.45				
15	16QAM	36	5	20.84	20.84	20.54	20.70				
15	16QAM	36	20	20.81	21.00	20.75	20.57				
15	16QAM	36	36	20.54	20.90	20.68	20.56	22	2		
15	16QAM	75	0	20.48	20.70	20.52	20.68				
15	64QAM	1	5	20.69	20.83	20.83	20.55				
15	64QAM	1	37	20.57	20.77	20.53	20.60				
15	64QAM	1	74	20.63	20.86	20.84	20.89	21	3		
15	64QAM	36	5	19.58	19.78	19.55	19.67				
15	64QAM	36	20	19.58	19.82	19.88	19.55				
15	64QAM	36	36	19.46	19.84	19.80	19.53				
15	64QAM	75	0	19.57	19.72	19.55	19.54	19	5		
15	256QAM	1	5	17.86	17.83	17.62	17.51				
15	256QAM	1	37	17.72	17.56	17.70	17.54				
15	256QAM	1	74	17.43	17.80	17.77	17.58				
15	256QAM	36	5	17.85	17.80	17.78	17.61	19	5		
15	256QAM	36	20	17.82	17.70	17.64	17.67				
15	256QAM	36	36	17.57	18.00	17.69	17.52				
15	256QAM	75	0	17.74	17.78	17.57	17.59				
Channel				56290	56315	56335	56355	Tune-up band (dBm)	MPR (dB)		
Frequency (MHz)				56290	56315	56335	56355				
10	QPSK	1	0	22.74	22.84	22.84	22.40	24	0		
10	QPSK	1	25	22.52	22.78	22.42	22.83				
10	QPSK	1	49	22.88	22.83	22.45	22.52				
10	QPSK	25	0	21.47	21.83	21.68	21.48				
10	QPSK	25	12	21.69	21.52	21.60	21.56	23	1		
10	QPSK	25	25	21.56	21.68	21.63	21.71				
10	QPSK	50	5	21.50	21.63	21.48	21.38				
10	16QAM	1	5	21.74	21.87	21.82	21.38				
10	16QAM	1	25	21.72	21.88	21.68	21.58	23	1		
10	16QAM	1	49	21.54	21.70	21.57	21.48				
10	16QAM	25	5	20.86	20.80	20.68	20.71				
10	16QAM	25	12	20.86	20.81	20.69	20.51				
10	16QAM	25	25	20.70	20.80	20.74	20.55	22	2		
10	16QAM	50	5	20.51	20.83	20.68	20.52				
10	64QAM	1	5	20.71	20.80	20.71	20.58				
10	64QAM	1	25	20.58	20.84	20.70	20.58				
10	64QAM	1	49	20.73	20.75	20.72	20.56	22	2		
10	64QAM	25	5	19.50	19.83	19.53	19.67				
10	64QAM	25	12	19.50	19.87	19.89	19.56				
10	64QAM	25	25	19.56	19.78	19.84	19.57				
10	64QAM	50	5	19.54	19.83	19.73	19.38	21	3		
10	256QAM	1	5	17.73	17.92	17.59	17.58				
10	256QAM	1	25	17.77	17.84	17.62	17.44				
10	256QAM	1	49	17.49	17.78	17.78	17.64				
10	256QAM	25	5	17.80	17.88	17.83	17.48	19	5		
10	256QAM	25	12	17.85	17.74	17.70	17.46				
10	256QAM	25	25	17.50	17.89	17.54	17.51				
10	256QAM	50	5	17.78	17.97	17.67	17.69				
Channel				56265	56290	56310	56330	Tune-up band (dBm)	MPR (dB)		
Frequency (MHz)				56265	56290	56310	56330				
5	QPSK	1	0	22.82	22.87	22.85	22.37	24	0		
5	QPSK	1	12	22.41	22.75	22.45	22.30				
5	QPSK	1	24	22.50	22.88	22.59	22.42				
5	QPSK	12	0	21.84	21.78	21.69	21.42				
5	QPSK	12	7	21.54	21.59	21.69	21.47	23	1		
5	QPSK	12	13	21.73	21.69	21.58	21.59				
5	QPSK	25	5	21.82	21.84	21.68	21.59				
5	16QAM	1	5	21.84	21.81	21.82	21.47				
5	16QAM	1	12	21.78	21.78	21.78	21.53	23	1		
5	16QAM	1	24	21.80	21.70	21.52	21.41				
5	16QAM	12	5	20.52	20.84	20.69	20.50				
5	16QAM	12	7	20.73	20.84	20.67	20.46				
5	64QAM	1	12	20.84	20.84	20.68	20.53	22	2		
5	64QAM	1	0	20.50	20.81	20.48	20.42				
5	64QAM	1	5	20.69	20.89	20.76	20.60				
5	64QAM	1	12	20.84	20.84	20.68	20.53				
5	64QAM	1	24	20.53	20.84	20.61	20.46	21	3		
5	64QAM	12	0	19.59	19.88	19.70	19.71				
5	64QAM	12	7	19.44	19.72	19.82	19.52				
5	64QAM	12	13	19.59	19.86	19.88	19.68				
5	256QAM	1	5	17.80	17.78	17.82	17.52	19	5		
5	256QAM	1	12	17.85	17.69	17.73	17.57				
5	256QAM	1	24	17.80	17.75	17.78	17.59				
5	256QAM	12	5	17.86	17.99	17.70	17.60				

Band 41 Ant6 EC13												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Mod Ch / Freq	Power High Mod Ch / Freq	Power Low Mod Ch / Freq	Power High Mod Ch / Freq	Power Low Mod Ch / Freq	Power High Mod Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39790	40188	40620	41066	41490	41916			
20	QPSK	1	5	22.04	22.01	22.23	21.98	22.03	21.92			
20	QPSK	1	40	22.14	21.95	22.08	22.02	21.90	21.92	23.4	0	
20	QPSK	1	80	22.03	21.98	22.07	21.98	21.98	21.98			
20	QPSK	50	5	21.48	21.38	21.55	21.52	21.44	21.40			
20	QPSK	50	24	21.32	21.34	21.42	21.38	21.31	21.40	23.0	0.4	
20	QPSK	50	40	21.05	21.27	21.44	21.46	21.44	21.34	23.0		
20	QPSK	100	5	21.23	21.29	21.52	21.49	21.39	21.40			
20	16QAM	1	5	21.37	21.47	21.50	21.44	21.46	21.46	23.0	0.4	
20	16QAM	1	40	21.30	21.50	21.44	21.41	21.35	21.41			
20	16QAM	1	99	21.31	21.35	21.40	21.30	21.39	21.39			
20	16QAM	50	5	20.90	20.43	20.58	20.51	20.50	20.50			
20	16QAM	50	24	20.27	20.28	20.42	20.31	20.34	20.34	22.0	1.4	
20	16QAM	50	50	20.20	20.30	20.36	20.22	20.26	20.26			
20	16QAM	100	5	20.40	20.49	20.54	20.45	20.49	20.49			
20	16QAM	1	5	20.47	20.32	20.52	20.41	20.42	20.42			
20	16QAM	1	40	20.25	20.19	20.30	20.26	20.23	20.23	22.0	1.4	
20	16QAM	1	99	20.35	20.32	20.35	20.26	20.25	20.25			
20	16QAM	50	5	19.44	19.45	19.55	19.47	19.42	19.42			
20	16QAM	50	24	19.29	19.33	19.42	19.36	19.29	19.29	21.0	2.4	
20	16QAM	50	50	19.35	19.35	19.48	19.42	19.35	19.35			
20	16QAM	100	5	19.40	19.41	19.54	19.48	19.49	19.49			
20	256QAM	1	5	17.42	17.40	17.53	17.43	17.50	17.50			
20	256QAM	1	40	17.34	17.39	17.43	17.36	17.35	17.35	19.0	4.4	
20	256QAM	1	99	17.36	17.32	17.40	17.29	17.37	17.37			
20	256QAM	50	5	17.49	17.57	17.64	17.54	17.60	17.60			
20	256QAM	50	24	17.08	17.27	17.54	17.54	17.55	17.55	19.0	4.4	
20	256QAM	50	50	17.52	17.45	17.57	17.53	17.44	17.44			
20	256QAM	100	5	17.58	17.65	17.76	17.70	17.76	17.76			
Channel												
Frequency (MHz)				39795	40173	40620	41066	41515	41916	Turn-up time (dBm)	MPR (dB)	
15	QPSK	1	5	21.97	21.79	22.01	21.78	21.87	21.87			
15	QPSK	1	37	22.03	21.79	22.01	22.07	21.94	21.92	23.40	0	
15	QPSK	1	74	21.96	22.06	22.20	21.99	21.87	21.87			
15	QPSK	36	20	21.38	21.59	21.51	21.40	21.32	21.32			
15	QPSK	36	20	21.24	21.26	21.32	21.26	21.23	21.20	23.00	0.4	
15	QPSK	36	40	21.09	21.21	21.41	21.41	21.37	21.37			
15	QPSK	75	5	21.09	21.18	21.40	21.45	21.34	21.34			
15	16QAM	1	5	21.33	21.38	21.43	21.34	21.37	21.37	23.00	0.4	
15	16QAM	1	37	21.19	21.24	21.32	21.26	21.25	21.25			
15	16QAM	1	74	21.17	21.27	21.29	21.21	21.15	21.15			
15	16QAM	36	5	20.43	20.36	20.51	20.48	20.37	20.37			
15	16QAM	36	40	20.28	20.17	20.31	20.24	20.24	20.24	22.00	1.4	
15	16QAM	36	99	20.17	20.16	20.27	20.12	20.22	20.22			
15	16QAM	75	5	20.43	20.43	20.41	20.31	20.37	20.37			
15	16QAM	1	5	20.35	20.34	20.38	20.27	20.30	20.30	22.00	1.4	
15	16QAM	1	37	20.15	20.11	20.19	20.16	20.12	20.12			
15	16QAM	1	74	20.15	20.19	20.13	20.17	20.06	20.06			
15	16QAM	36	5	19.40	19.32	19.49	19.41	19.35	19.35	21.00	2.4	
15	16QAM	36	20	19.24	19.25	19.35	19.24	19.15	19.15			
15	16QAM	36	40	19.08	19.22	19.45	19.45	19.45	19.45			
15	16QAM	75	5	19.25	19.24	19.49	19.42	19.32	19.32			
15	256QAM	1	5	17.37	17.34	17.44	17.29	17.39	17.39	19.00	4.4	
15	256QAM	1	37	17.24	17.26	17.33	17.21	17.20	17.20			
15	256QAM	1	74	17.22	17.26	17.30	17.16	17.25	17.25			
15	256QAM	36	5	17.45	17.49	17.51	17.52	17.62	17.62	19.00	4.4	
15	256QAM	36	20	17.45	17.43	17.50	17.39	17.49	17.49			
15	256QAM	36	40	17.49	17.53	17.47	17.41	17.37	17.37			
15	256QAM	75	5	17.43	17.47	17.58	17.48	17.50	17.50			
Channel												
Frequency (MHz)				39970	40160	40620	41080	41560	41916	Turn-up time (dBm)	MPR (dB)	
10	QPSK	1	5	21.98	21.94	22.13	22.04	21.94	21.94			
10	QPSK	1	25	21.95	21.77	21.95	22.01	21.78	21.78	23.40	0	
10	QPSK	1	40	22.01	22.03	22.13	21.88	21.94	21.94			
10	QPSK	25	6	21.43	21.34	21.48	21.46	21.46	21.46	23.00	0.4	
10	QPSK	25	12	21.27	21.24	21.35	21.25	21.19	21.19			
10	QPSK	25	25	21.22	21.14	21.36	21.43	21.32	21.32			
10	QPSK	50	5	21.09	21.26	21.45	21.39	21.26	21.26	23.00	0.4	
10	16QAM	1	5	21.33	21.32	21.38	21.39	21.33	21.33	23.00	0.4	
10	16QAM	1	25	21.17	21.25	21.37	21.37	21.31	21.31			
10	16QAM	1	40	21.27	21.31	21.28	21.26	21.27	21.27			
10	16QAM	25	5	20.43	20.34	20.45	20.47	20.46	20.46			
10	16QAM	25	19	20.16	20.23	20.35	20.19	20.28	20.28	22.00	1.4	
10	16QAM	25	40	20.15	20.17	20.25	20.07	20.13	20.13			
10	16QAM	50	5	20.43	20.42	20.45	20.35	20.38	20.38			
10	16QAM	50	19	20.16	20.20	20.36	20.19	20.10	20.10	22.00	1.4	
10	16QAM	1	25	20.19	20.05	20.16	20.19	20.10	20.10			
10	16QAM	1	40	20.15	20.07	20.21	20.08	20.17	20.17	22.00	1.4	
10	16QAM	25	5	19.35	19.31	19.41	19.36	19.27	19.27	21.00	2.4	
10	16QAM	25	12	19.16	19.27	19.32	19.29	19.15	19.15			
10	16QAM	25	25	19.21	19.26	19.42	19.31	19.22	19.22			
10	16QAM	50	5	19.27	19.31	19.44	19.35	19.30	19.30			
10	256QAM	1	5	17.32	17.36	17.46	17.31	17.39	17.39	19.00	4.4	
10	256QAM	1	25	17.24	17.26	17.36	17.25	17.24	17.24			
10	256QAM	1	40	17.24	17.28	17.30	17.19	17.23	17.23			
10	256QAM	25	5	17.51	17.43	17.58	17.51	17.59	17.59	19.00	4.4	
10	256QAM	25	12	17.47	17.50	17.68	17.48	17.42	17.42	19.00	4.4	
10	256QAM	25	25	17.40	17.31	17.44	17.38	17.45	17.45			
10	256QAM	50	5	17.50	17.52	17.58	17.48	17.53	17.53			
Channel												
Frequency (MHz)				3698.5	3645.8	3693	3640.30	3687.5	3634.5	Turn-up time (dBm)	MPR (dB)	
5	QPSK	1	5	21.09	22.05	22.17	22.16	21.94	21.94	23.40	0	
5	QPSK	1	15	22.02	21.91	21.97	22.01	21.83	21.83			
5	QPSK	1	24	21.98	22.00	22.13	21.98	21.87	21.87			
5	QPSK	12	7	21.38	21.29	21.41	21.44	21.37	21.37	23.00	0.4	
5	QPSK	12	7	21.18	21.27	21.33	21.25	21.19	21.19			
5	QPSK	12	13	21.30	21.22	21.38	21.36	21.32	21.32			
5	QPSK	25	5	21.19	21.17	21.40	21.39	21.27	21.27			
5	16QAM	1	5	21.33	21.37	21.41	21.33	21.36	21.36	23.00	0.4	
5	16QAM	1	12	21.23	21.28	21.39	21.28	21.31	21.31			
5	16QAM	1	24	21.27	21.21	21.29	21.20	21.17	21.17			
5	16QAM	12	5	20.39	20.37	20.51	20.38	20.41	20.41	22.00	1.4	
5	16QAM	12	7	20.20	20.23	20.33	20.24	20.25	20.25			
5	16QAM	12	13	20.19	20.18	20.26	20.16	20.13	20.13			
5	16QAM	25	5	20.44	20.40	20.47	20.33	20.43	20.43	22.00	1.4	
5	16QAM	1	5	20.42	20.27	20.49	20.32	20.32	20.32			
5	16QAM	1	12	20.17	20.16	20.17	20.02	20.18	20.18			
5	16QAM	1	24	20.13	20.15	20.19	20.11	20.18	20.18	21.00	2.4	
5	16QAM	12	5	19.34	19.41	19.52	19.38	19.37	19.37			
5	16QAM	12	7	19.15	19.28	19.28	19.3	19.25	19.25			
5	16QAM	12	13	19.21	19.26	19.42	19.31	19.22	19.22			
5	16QAM	25	5	19.26	19.30	19.47	19.37	19.30	19.30	21.00	2.4	
5	256QAM	1	5	17.32	17.36	17.46	17.31	17.39	17.39	19.00	4.4	
5	256QAM	1	12	17.24	17.28	17.40	17.31	17.26	17.26			
5	256QAM	1	24	17.23	17.							



Band 48_FCC Ant7 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-Mid Ch / Freq	Power High-Mid Ch / Freq	Power High Ch / Freq	Tune-up band (MHz)	MPE (dB)
Channel				56340	56350	56360	56370	Tune-up band (MHz)	MPE (dB)
Frequency (MHz)				56340	56350	56360	56370		
20	QPSK	1	0	18.13	18.25	17.92	18.09	19.5	0
20	QPSK	1	49	18.03	18.10	17.88	18.07		
20	QPSK	8	0	18.24	18.14	18.11	18.09		
20	QPSK	50	0	18.10	18.21	17.97	18.10		
20	QPSK	50	24	18.01	18.14	17.82	18.10	19.5	0
20	QPSK	50	50	17.83	18.20	17.72	17.87		
20	QPSK	100	0	18.16	18.25	17.94	18.10		
20	16QAM	1	0	18.04	18.11	17.89	18.00		
20	16QAM	1	49	17.91	18.17	17.73	17.87	19.5	0
20	16QAM	1	99	18.15	18.26	17.95	18.15		
20	16QAM	50	0	17.99	18.09	17.86	18.10		
20	16QAM	50	24	17.84	18.20	17.75	17.82		
20	16QAM	50	50	18.16	18.25	17.91	18.16	19.5	0
20	16QAM	100	0	18.15	18.21	17.89	18.09		
20	64QAM	1	0	18.15	18.23	17.95	18.12		
20	64QAM	1	49	18.18	18.17	17.87	18.18	19.5	0
20	64QAM	1	99	18.15	18.21	17.85	18.15		
20	64QAM	50	0	18.13	18.20	17.93	18.14		
20	64QAM	50	24	18.15	18.24	17.87	18.09		
20	64QAM	50	50	18.15	18.19	17.89	18.12	19.5	0
20	64QAM	100	0	18.12	18.24	17.82	18.10		
20	256QAM	1	0	17.80	17.98	17.32	17.98		
20	256QAM	1	49	17.85	17.97	17.51	17.99	19	0.5
20	256QAM	1	99	17.45	17.98	17.46	17.43		
20	256QAM	50	0	17.84	17.84	17.82	17.85		
20	256QAM	50	24	17.74	17.72	17.49	17.58		
20	256QAM	50	50	17.77	17.81	17.58	17.83	19	0.5
20	256QAM	100	0	17.80	17.70	17.48	17.55		
Channel				56315	56320	56330	56340	Tune-up band (MHz)	MPE (dB)
Frequency (MHz)				56315	56320	56330	56340		
15	QPSK	1	0	18.00	18.16	17.83	17.95	19.5	0
15	QPSK	1	37	17.89	17.97	17.79	18.02		
15	QPSK	1	74	18.18	18.04	18.00	17.99		
15	QPSK	36	0	18.02	18.06	17.85	17.99		
15	QPSK	36	20	17.88	18.06	17.73	18.00	19.5	0
15	QPSK	36	36	17.81	18.19	17.81	17.77		
15	QPSK	75	0	18.08	18.16	17.81	17.97		
15	16QAM	1	0	17.96	17.99	17.79	17.89		
15	16QAM	1	37	17.77	18.08	17.73	17.77	19.5	0
15	16QAM	1	74	18.09	18.17	17.81	18.08		
15	16QAM	36	0	17.86	17.95	17.75	18.01		
15	16QAM	36	20	17.80	18.12	17.64	17.90		
15	16QAM	36	36	18.03	18.12	17.78	18.04	19.5	0
15	16QAM	75	0	18.08	18.15	17.89	17.95		
15	64QAM	1	0	18.00	18.17	17.88	18.05		
15	64QAM	1	37	18.05	18.07	17.88	18.03		
15	64QAM	1	74	18.11	18.15	17.86	18.09	19.5	0
15	64QAM	36	0	18.03	18.11	17.87	18.00		
15	64QAM	36	20	18.05	18.17	17.86	18.05		
15	64QAM	36	36	17.87	18.09	17.78	18.01		
15	64QAM	75	0	18.00	18.11	17.85	18.02	19	0.5
15	256QAM	1	0	17.81	17.42	17.23	17.42		
15	256QAM	1	37	17.85	17.30	17.35	17.31		
15	256QAM	1	74	17.40	17.48	17.33	17.31		
15	256QAM	36	0	17.84	17.59	17.43	17.41	19	0.5
15	256QAM	36	20	17.83	17.64	17.41	17.45		
15	256QAM	36	36	17.88	17.51	17.46	17.51		
15	256QAM	75	0	17.84	17.67	17.36	17.40		
Channel				56310	56315	56325	56335	Tune-up band (MHz)	MPE (dB)
Frequency (MHz)				56310	56315	56325	56335		
10	QPSK	1	0	17.99	18.14	17.81	17.99	19.5	0
10	QPSK	1	25	17.91	17.97	17.89	17.99		
10	QPSK	1	49	18.19	18.03	18.05	17.98		
10	QPSK	36	0	18.00	18.17	17.82	17.96		
10	QPSK	25	12	18.00	18.16	17.82	17.98	19.5	0
10	QPSK	25	25	18.01	18.13	17.89	17.99		
10	QPSK	36	0	18.05	18.22	17.77	17.97		
10	16QAM	1	0	17.82	18.04	17.77	17.89		
10	16QAM	1	25	17.82	18.09	17.72	17.77	19.5	0
10	16QAM	1	49	18.07	18.11	17.89	18.10		
10	16QAM	25	0	17.99	18.16	17.86	17.98		
10	16QAM	25	12	18.07	18.17	17.77	18.02		
10	16QAM	25	25	17.99	18.16	17.84	18.03	19.5	0
10	16QAM	50	0	17.99	18.23	17.85	18.04		
10	64QAM	1	0	18.02	18.12	17.81	18.03		
10	64QAM	1	25	18.12	18.09	17.89	18.03		
10	64QAM	1	49	18.05	18.11	17.86	18.04	19.5	0
10	64QAM	25	0	17.99	18.12	17.87	18.00		
10	64QAM	25	12	18.00	18.16	17.86	17.96		
10	64QAM	25	25	18.06	18.13	17.89	18.07		
10	64QAM	50	0	18.01	18.10	17.75	18.03	19.5	0
10	256QAM	1	0	17.51	17.46	17.20	17.45		
10	256QAM	1	25	17.83	17.59	17.46	17.37		
10	256QAM	1	49	17.30	17.50	17.39	17.37		
10	256QAM	25	0	17.82	17.87	17.45	17.43	19	0.5
10	256QAM	25	12	17.82	17.81	17.40	17.51		
10	256QAM	25	25	17.94	17.54	17.23	17.20		
10	256QAM	50	0	17.82	17.84	17.39	17.41		
Channel				56305	56310	56320	56330	Tune-up band (MHz)	MPE (dB)
Frequency (MHz)				56305	56310	56320	56330		
5	QPSK	1	0	18.04	18.22	17.82	18.01	19.5	0
5	QPSK	1	12	17.89	18.03	17.73	17.98		
5	QPSK	1	24	18.17	18.04	17.98	18.01		
5	QPSK	12	0	18.03	18.15	17.83	18.01		
5	QPSK	12	7	18.06	18.18	17.77	17.97	19.5	0
5	QPSK	12	13	18.03	18.19	17.89	18.01		
5	QPSK	25	0	18.06	18.12	17.82	17.98		
5	16QAM	1	0	18.04	18.18	17.85	18.04		
5	16QAM	1	12	18.02	18.17	17.81	17.97	19.5	0
5	16QAM	1	24	18.03	18.20	17.79	17.96		
5	16QAM	12	0	17.93	17.96	17.72	17.97		
5	16QAM	12	7	17.84	18.08	17.86	17.89		
5	16QAM	12	13	18.07	18.10	17.83	18.11	19.5	0
5	16QAM	25	0	18.05	18.07	17.89	17.96		
5	64QAM	1	0	18.08	18.12	17.89	18.04		
5	64QAM	1	12	18.06	18.06	17.85	18.02		
5	64QAM	1	24	18.06	18.10	17.83	18.07	19.5	0
5	64QAM	12	0	18.07	18.07	17.84	18.05		
5	64QAM	12	7	18.02	18.16	17.84	18.00		
5	64QAM	12	13	18.01	18.10	17.77	18.02		
5	256QAM	1	0	18.02	18.16	17.83	17.98	19	0.5
5	256QAM	1	12	17.85	17.28	17.43	17.36		
5	256QAM	1	24	17.38	17.49	17.29	17.37		
5	256QAM	12	0	17.82	17.80	17.43	17.42		
5	256QAM	12	7	17.84	17.82	17.42	17.48	19	0.5
5	256QAM	12	13	17.87	17.81	17.81	17.80		
5	256QAM	25	0	17.83	17.81	17.43	17.41		



Reduced Power Mode for EC14 Standalone

GSMB50 Airtel Default					
	Best Average Power (dBm)			Tune-up	
TX Channel	824.2	836.4	848.6	1420	1420
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4
GSMB 1 Tx Wdth	32.00	32.00	32.00	33.00	23.00
OPRS 1 Tx Wdth	32.00	32.00	32.00	33.00	23.00
OPRS 2 Tx Wdth	31.24	31.29	31.21	32.00	25.24
OPRS 3 Tx Wdth	29.31	29.46	29.40	30.00	25.00
OPRS 4 Tx Wdth	28.08	28.17	28.10	29.00	25.08
EDGE 1 Tx Wdth	25.46	25.69	25.56	27.00	17.00
EDGE 2 Tx Wdth	25.46	25.61	25.57	26.00	16.40
EDGE 3 Tx Wdth	25.00	25.14	25.09	24.00	18.80
EDGE 4 Tx Wdth	21.70	21.82	21.70	23.00	18.80

GSMB1000 Airtel Default					
	Best Average Power (dBm)			Tune-up	
TX Channel	1850.2	1862	1869.8	1420	1420
Frequency (MHz)	1850.2	1862	1869.8	1850.2	1862
GSMB 1 Tx Wdth	20.24	20.27	20.09	30.00	20.27
OPRS 1 Tx Wdth	20.28	20.32	20.21	30.00	20.32
OPRS 2 Tx Wdth	20.43	20.49	20.34	29.00	22.43
OPRS 3 Tx Wdth	20.70	20.73	20.60	27.00	22.21
OPRS 4 Tx Wdth	20.02	20.09	20.40	26.00	22.00
EDGE 1 Tx Wdth	25.74	25.81	25.87	26.00	16.74
EDGE 2 Tx Wdth	24.60	24.65	24.48	25.00	18.00
EDGE 3 Tx Wdth	22.24	22.38	22.10	23.00	17.88
EDGE 4 Tx Wdth	20.00	20.14	20.70	22.00	17.00

Sine		WCDMA II Airtel Default		WCDMA IV Airtel Default		WCDMA V Airtel Default	
TX Channel	8062	8060	8038	1512	1513	4132	4208
Rx Channel	8062	8060	8038	1537	1538	4307	4408
Frequency (MHz)	8062.4	8060	8037.6	1512.4	1513.6	4132.4	4208.4
SCPP Ref#0	23.32	23.46	23.38	24.00	23.22	23.22	24.00
SCPP Ref#1	23.30	23.42	23.30	24.00	23.22	23.22	24.00
SCPP Ref#2	23.22	23.32	23.10	23.00	22.13	22.25	23.00
SCPP Ref#3	22.15	22.34	22.26	23.00	22.00	22.22	23.00
SCPP Ref#4	21.67	21.60	21.60	22.00	21.40	21.60	22.00
SCPP Ref#5	21.87	21.88	21.81	22.00	21.88	21.78	22.00
SCPP Ref#6	22.17	22.21	22.12	23.00	22.12	22.07	23.00
SCPP Ref#7	22.28	22.30	22.00	23.00	22.10	22.01	23.00
SCPP Ref#8	21.80	21.87	21.08	22.00	21.68	21.73	22.00
SCPP Ref#9	21.12	21.61	21.74	22.00	21.40	21.11	21.00
SCPP Ref#10	22.24	22.47	22.12	23.00	22.14	22.37	23.00
SCPP Ref#11	20.13	20.33	20.20	21.00	20.00	20.20	21.00
SCPP Ref#12	21.14	21.30	21.25	22.00	21.06	21.11	21.00
SCPP Ref#13	22.16	22.44	22.10	23.00	22.34	22.00	23.00
SCPP Ref#14	22.28	22.39	22.33	23.00	22.23	22.32	23.00

Band 2 Ant0 Default											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.13	23.16	23.08			24	0	
20	QPSK	1	49	23.07	23.11	23.07					
20	QPSK	1	99	22.88	23.04	22.88					
20	QPSK	50	0	22.39	22.42	22.40					
20	QPSK	50	24	22.28	22.37	22.29			23	1	
20	QPSK	50	50	22.24	22.30	22.26					
20	QPSK	100	0	22.26	22.30	22.32					
20	16QAM	1	0	22.24	22.36	22.27			23	1	
20	16QAM	1	49	22.25	22.30	22.21					
20	16QAM	1	99	22.11	22.23	22.15					
20	16QAM	50	0	21.19	21.22	21.17			22	2	
20	16QAM	50	24	21.07	21.17	21.02					
20	16QAM	50	50	21.00	21.10	20.96					
20	16QAM	100	0	20.97	21.09	20.95					
20	64QAM	1	0	21.06	21.17	21.12					
20	64QAM	1	49	21.08	21.12	21.02			22	2	
20	64QAM	50	0	20.95	21.05	20.91					
20	64QAM	50	24	19.84	20.00	19.83			21	3	
20	64QAM	50	50	19.84	19.93	19.85					
20	64QAM	100	0	20.00	20.08	19.97					
20	256QAM	1	49	18.05	18.17	18.12			19	5	
20	256QAM	1	99	18.02	18.10	17.98					
20	256QAM	50	0	18.02	18.08	18.05					
20	256QAM	50	24	18.05	18.11	17.99			19	5	
20	256QAM	50	50	17.98	18.04	18.00					
20	256QAM	100	0	18.00	18.07	18.03					
Channel											
Frequency (MHz)											
15	QPSK	1	0	18.07	18.00	18.02					
15	QPSK	1	0	23.05	23.03	22.98			24	0	
15	QPSK	1	37	22.97	22.98	22.97					
15	QPSK	1	74	22.89	22.98	22.89					
15	QPSK	36	0	22.30	22.38	22.29					
15	QPSK	36	20	22.14	22.29	22.17					
15	QPSK	36	36	22.13	22.19	22.13			23	1	
15	QPSK	75	0	22.21	22.30	22.19					
15	16QAM	1	0	22.20	22.20	22.22					
15	16QAM	1	37	22.10	22.25	22.08			23	1	
15	16QAM	1	74	22.06	22.17	22.07					
15	16QAM	36	0	21.07	21.08	21.07					
15	16QAM	36	20	21.00	21.11	20.94			22	2	
15	16QAM	36	36	20.98	21.04	20.94					
15	16QAM	75	0	20.82	21.05	20.81					
15	64QAM	1	0	21.01	21.05	21.00					
15	64QAM	1	37	20.98	21.01	20.97			22	2	
15	64QAM	1	74	20.89	20.94	20.81					
15	64QAM	36	0	19.85	19.96	19.84					
15	64QAM	36	20	19.82	19.99	19.81					
15	64QAM	36	36	19.71	19.87	19.73			21	3	
15	64QAM	75	0	19.89	19.95	19.83					
15	256QAM	1	0	18.10	18.08	18.11					
15	256QAM	1	37	17.92	18.05	18.00			19	5	
15	256QAM	1	74	17.98	18.03	17.91					
15	256QAM	36	0	18.01	18.05	18.00					
15	256QAM	36	20	17.99	18.02	17.94			19	5	
15	256QAM	36	36	17.87	17.92	17.85					
15	256QAM	75	0	17.87	17.92	17.85					
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.00	23.00	22.99					
10	QPSK	1	25	22.92	22.98	22.93			24	0	
10	QPSK	1	49	22.86	22.94	22.88					
10	QPSK	12	0	22.27	22.37	22.32					
10	QPSK	25	12	22.15	22.28	22.22					
10	QPSK	25	25	22.15	22.23	22.10			23	1	
10	QPSK	50	0	22.14	22.20	22.16					
10	16QAM	1	0	22.14	22.23	22.18					
10	16QAM	1	25	22.20	22.25	22.17			23	1	
10	16QAM	25	0	21.15	21.12	21.13					
10	16QAM	25	12	21.02	21.07	20.98			22	2	
10	16QAM	50	0	20.85	20.99	20.80					
10	64QAM	1	0	21.03	21.13	21.07					
10	64QAM	1	25	21.01	21.08	21.01			22	2	
10	64QAM	1	49	20.83	20.98	20.80					
10	64QAM	25	0	19.84	19.91	19.88					
10	64QAM	25	12	19.83	19.92	19.80			21	3	
10	64QAM	25	25	19.72	19.82	19.78					
10	64QAM	50	0	19.90	19.97	19.82					
10	256QAM	1	0	18.05	18.08	18.04					
10	256QAM	1	25	17.92	18.02	18.00			19	5	
10	256QAM	1	49	17.89	18.02	17.94					
10	256QAM	12	0	18.03	18.11	18.04					
10	256QAM	25	12	17.95	18.00	17.89			19	5	
10	256QAM	25	25	17.87	17.91	17.80					
10	256QAM	50	0	17.90	17.96	17.85					
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.00	23.00	22.99					
5	QPSK	1	12	22.96	22.99	22.98			24	0	
5	QPSK	1	24	22.88	22.98	22.81					
5	QPSK	12	0	22.27	22.37	22.32					
5	QPSK	12	7	22.22	22.30	22.25					
5	QPSK	12	13	22.10	22.22	22.11			23	1	
5	QPSK	25	0	22.11	22.20	22.16					
5	16QAM	1	0	22.18	22.22	22.18					
5	16QAM	1	12	22.12	22.18	22.10			23	1	
5	16QAM	1	24	21.09	21.18	21.04					
5	16QAM	12	0	21.09	21.18	21.04					
5	16QAM	12	7	20.98	21.12	20.97			22	2	
5	16QAM	12	13	20.92	21.06	20.88					
5	16QAM	25	0	20.84	20.98	20.86					
5	64QAM	1	0	21.00	21.13	21.02					
5	64QAM	1	12	21.00	21.05	20.91			22	2	
5	64QAM	1	24	20.84	20.96	20.87					
5	64QAM	12	0	19.83	19.95	19.88					
5	64QAM	12	7	19.81	19.87	19.80					
5	64QAM	12	13	19.71	19.80	19.72			21	3	
5	64QAM	25	0	19.82	19.96	19.80					
5	64QAM	25	0	18.04	18.15	18.02					
5	256QAM	1	12	17.98	18.10	18.00			19	5	
5	256QAM	1	24	17.92	17.96	17.86					
5	256QAM	12	0	18.05	18.08	17.99					
5	256QAM	12	7	17.91	18.04	17.90			19	5	
5	256QAM	12	13	17.88	17.98	17.82					
5	256QAM	25	0	17.92	17.95	17.81					
Channel											
Frequency (MHz)											
3	QPSK	1	0	23.00	23.00	22.99					
3	QPSK	1	8	22.97	22.97	22.89			24	0	
3	QPSK	1	14	22.86	22.98	22.81					
3	QPSK	8	0	22.33	22.36	22.35					
3	QPSK	8	4	22.18	22.29	22.24					
3	QPSK	8	7	22.14	22.16	22.13			23	1	
3	16QAM	1	0	22.17	22.25	22.20					
3	16QAM	1	8	22.15	22.20	22.13					
3	16QAM	1	14	22.06	22.13	22.11			23	1	
3	16QAM	1	0	21.10	21.19	21.03					
3	16QAM	8	0	20.92	21.10	20.95			22	2	
3	16QAM	8	7	20.91	21.03	20.86					
3	16QAM	16	0	20.86	21.00	20.81					
3	64QAM	1	0	20.99	21.13	21.09					
3	64QAM	1	8	20.96	21.08	20.88			22	2	
3	64QAM	1	14	20.87	20.93	20.85					
3	64QAM	8	0	19.88	19.94	19.81					
3	64QAM	8	4	19.89	19.88	19.79					
3	64QAM	8	7	19.80	19.86	19.75			21	3	
3	64QAM	16	0	18.13	18.11	17.97					
3	256QAM	1	8	17.98	18.02	18.0					
3	256QAM	1	14	17.92	17.96	17.86					
3	256QAM	8	0	17.88	18.02	17.81					
3	256QAM	8	4	17.98	18.08	18.02					
3	256QAM	8	7	17.95	18.01	17.90			19	5	
3	256QAM	16	0	17.82	17.91	17.86					
3	256QAM	19	0	17.91	18.01	17.93					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	23.07	23.11	23.02					
1.4	QPSK	1	0	22.08	22.08	22.08			24	0	
1.4	QPSK	1	5	22.30	22.32	22.28					
1.4	QPSK	1	5	22.02	22.09	22.07					
1.4	QPSK	3	3	22.93	23.00	22.82					
1.4	QPSK	6	0	22.34	22.37	22.35			23	1	
1.4	QPSK	6	0	22.02	22.09	22.07					
1.4	QPSK	1	3	21.10	21.19	21.16					
1.											

Band 7 Ant0 Default												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Tune-up (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.92	22.97	22.88			24	0		
20	QPSK	1	49	22.83	22.82	22.88						
20	QPSK	1	99	22.78	22.88	22.78			23	1		
20	QPSK	50	0	21.96	22.01	21.96						
20	QPSK	50	24	21.93	21.96	21.91			23	1		
20	QPSK	50	50	21.78	21.89	21.77						
20	QPSK	100	0	21.48	21.65	21.49			23	1		
20	16QAM	1	0	21.71	21.82	21.75						
20	16QAM	1	49	21.68	21.77	21.82			22	2		
20	16QAM	50	0	20.76	20.80	20.73						
20	16QAM	50	24	20.70	20.75	20.81			21	3		
20	16QAM	50	50	20.53	20.66	20.60						
20	16QAM	100	0	20.71	20.78	20.72			22	2		
20	64QAM	1	0	20.78	20.85	20.73						
20	64QAM	1	49	20.74	20.80	20.88			22	2		
20	64QAM	50	0	19.83	19.86	19.82						
20	64QAM	50	24	19.77	19.81	19.75			21	3		
20	64QAM	50	50	19.63	19.74	19.84						
20	64QAM	100	0	19.65	19.77	19.68			19	5		
20	256QAM	1	49	17.73	17.80	17.68						
20	256QAM	1	99	17.67	17.75	17.83			19	5		
20	256QAM	50	0	17.73	17.81	17.67						
20	256QAM	50	24	17.71	17.78	17.68			19	5		
20	256QAM	50	50	17.69	17.72	17.63						
20	256QAM	100	0	17.66	17.73	17.63			Tune-up (dB)			
Channel												
Frequency (MHz)												
19	QPSK	1	0	22.78	22.86	22.76			24	0		
19	QPSK	1	37	22.71	22.83	22.80						
19	QPSK	1	74	22.84	22.78	22.79			23	1		
19	QPSK	36	0	21.82	21.92	21.86						
19	QPSK	36	15	21.78	21.91	21.73			23	1		
19	QPSK	36	39	21.65	21.81	21.71						
19	QPSK	75	0	21.43	21.48	21.57			23	1		
19	16QAM	1	0	21.68	21.78	21.84						
19	16QAM	1	37	21.62	21.73	21.66			22	2		
19	16QAM	1	74	21.42	21.67	21.58						
19	16QAM	36	0	20.65	20.72	20.84			21	3		
19	16QAM	36	20	20.64	20.70	20.66						
19	16QAM	36	39	20.40	20.50	20.51			22	2		
19	16QAM	75	0	20.57	20.64	20.60						
19	64QAM	1	0	20.71	20.72	20.68			22	2		
19	64QAM	1	37	20.65	20.70	20.66						
19	64QAM	1	74	20.45	20.55	20.49			21	3		
19	64QAM	36	0	19.78	19.77	19.73						
19	64QAM	36	20	19.63	19.71	19.63			19	5		
19	64QAM	36	39	19.58	19.61	19.50						
19	64QAM	75	0	19.81	19.82	19.58			19	5		
19	256QAM	1	37	17.59	17.74	17.59						
19	256QAM	1	74	17.46	17.70	17.52			19	5		
19	256QAM	36	0	17.65	17.65	17.53						
19	256QAM	36	20	17.65	17.71	17.57			19	5		
19	256QAM	36	39	17.54	17.64	17.58						
19	256QAM	75	0	17.54	17.64	17.56			Tune-up (dB)			
Channel												
Frequency (MHz)												
19	QPSK	1	0	22.79	22.88	22.80			24	0		
19	QPSK	1	26	22.68	22.79	22.71						
19	QPSK	1	49	22.71	22.77	22.84			23	1		
19	QPSK	25	0	21.85	21.88	21.80						
19	QPSK	25	12	21.87	21.87	21.87			23	1		
19	QPSK	25	25	21.71	21.78	21.66						
19	QPSK	25	0	21.37	21.38	21.47			23	1		
19	16QAM	1	0	21.66	21.67	21.71						
19	16QAM	1	25	21.63	21.66	21.57			22	2		
19	16QAM	1	49	21.49	21.63	21.49						
19	16QAM	25	0	20.69	20.68	20.68			21	3		
19	16QAM	25	25	20.43	20.60	20.50						
19	16QAM	50	0	20.64	20.64	20.59			22	2		
19	16QAM	50	24	20.49	20.64	20.61						
19	16QAM	50	50	20.43	20.60	20.50			22	2		
19	64QAM	1	0	20.68	20.65	20.59						
19	64QAM	1	49	20.55	20.60	20.50			21	3		
19	64QAM	25	0	19.72	19.77	19.75						
19	64QAM	25	12	19.71	19.77	19.83			22	2		
19	64QAM	25	25	19.60	19.64	19.59						
19	64QAM	50	0	19.60	19.64	19.60			21	3		
19	256QAM	1	0	17.70	17.74	17.54						
19	256QAM	1	25	17.60	17.72	17.85			19	5		
19	256QAM	1	49	17.40	17.56	17.52						
19	256QAM	25	0	17.68	17.70	17.54			19	5		
19	256QAM	25	12	17.57	17.70	17.82						
19	256QAM	25	25	17.44	17.58	17.45			19	5		
19	256QAM	50	0	17.65	17.65	17.50					Tune-up (dB)	
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.81	22.88	22.73			24	0		
5	QPSK	1	12	22.79	22.83	22.80						
5	QPSK	1	24	22.72	22.75	22.67			23	1		
5	QPSK	12	0	21.84	21.83	21.80						
5	QPSK	12	7	21.82	21.89	21.72			23	1		
5	QPSK	12	13	21.70	21.78	21.70						
5	QPSK	25	0	21.37	21.43	21.43			23	1		
5	16QAM	1	0	21.68	21.69	21.71						
5	16QAM	1	12	21.69	21.65	21.57			22	2		
5	16QAM	1	24	21.44	21.68	21.54						
5	16QAM	12	0	20.68	20.74	20.83			21	3		
5	16QAM	12	7	20.63	20.71	20.51						
5	16QAM	12	13	20.49	20.44	20.81			22	2		
5	16QAM	25	0	20.67	20.70	20.81						
5	64QAM	1	0	20.69	20.77	20.66			22	2		
5	64QAM	1	12	20.61	20.72	20.63						
5	64QAM	1	24	20.51	20.60	20.51			21	3		
5	64QAM	12	0	19.79	19.77	19.74						
5	64QAM	12	7	19.71	19.71	19.88			19	5		
5	64QAM	12	13	19.57	19.63	19.81						
5	64QAM	25	0	19.87	19.87	19.53			19	5		
5	256QAM	1	0	17.64	17.66	17.51						
5	256QAM	1	12	17.60	17.62	17.56			19	5		
5	256QAM	1	24	17.48	17.61	17.58						
5	256QAM	12	0	17.61	17.74	17.59			19	5		
5	256QAM	12	7	17.57	17.72	17.69						
5	256QAM	12	13	17.51	17.57	17.45			Tune-up (dB)			
5	256QAM	25	0	17.53	17.62	17.52			19	5		
5	256QAM	25	0	17.53	17.62	17.52						

Band 12 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Tune-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.99	23.05	22.91			24	0
10	QPSK	1	25	22.94	23.00	22.99				
10	QPSK	1	49	22.85	22.93	22.78			23	1
10	QPSK	25	0	21.91	22.02	21.81				
10	QPSK	25	12	21.91	21.97	21.91			23	1
10	QPSK	1	0	21.85	21.92	21.85				
10	QPSK	1	25	21.83	21.87	21.77			23	1
10	QPSK	1	49	21.70	21.80	21.74				
10	QPSK	25	0	20.48	20.58	20.43			22	2
10	QPSK	25	12	20.49	20.53	20.43				
10	QPSK	50	0	20.50	20.61	20.39			22	2
10	QPSK	25	25	20.42	20.46	20.35				
10	QPSK	1	26	20.70	20.78	20.68			22	2
10	QPSK	1	49	20.58	20.71	20.64				
10	QPSK	1	73	20.46	20.55	20.44			21	3
10	QPSK	25	12	19.53	19.55	19.44				
10	QPSK	25	25	19.26	19.43	19.44			19	5
10	QPSK	50	0	18.65	17.75	17.67				
10	QPSK	1	26	17.65	17.70	17.65			19	5
10	QPSK	1	49	17.51	17.63	17.51				
10	QPSK	25	0	17.48	17.55	17.46			19	5
10	QPSK	25	12	17.44	17.50	17.39				
10	QPSK	50	0	17.45	17.56	17.46			19	5
10	QPSK	50	0	17.51	17.58	17.46				
Tune-up										
Frequency (MHz)										
10	QPSK	1	0	22.91	23.01	22.85			24	0
10	QPSK	1	12	22.91	22.86	22.87				
10	QPSK	1	25	22.75	22.78	22.71			23	1
10	QPSK	12	0	21.82	21.90	21.82				
10	QPSK	12	7	21.84	21.93	21.87			23	1
10	QPSK	1	26	21.77	21.80	21.65				
10	QPSK	25	0	21.75	21.83	21.63			23	1
10	QPSK	1	0	21.76	21.78	21.74				
10	QPSK	1	25	21.76	21.78	21.68			23	1
10	QPSK	1	24	21.60	21.68	21.63				
10	QPSK	12	0	20.34	20.48	20.46			22	2
10	QPSK	12	19	20.38	20.36	20.31				
10	QPSK	25	0	20.42	20.49	20.47			22	2
10	QPSK	1	24	20.47	20.59	20.43				
10	QPSK	1	49	20.33	20.40	20.35			21	3
10	QPSK	12	7	19.36	19.37	19.36				
10	QPSK	12	19	19.20	19.36	19.21			19	5
10	QPSK	25	0	18.53	18.58	18.51				
10	QPSK	1	0	17.51	17.65	17.65			19	5
10	QPSK	1	12	17.67	17.59	17.51				
10	QPSK	1	25	17.59	17.52	17.51			19	5
10	QPSK	12	0	17.36	17.46	17.38				
10	QPSK	12	7	17.37	17.42	17.24			19	5
10	QPSK	1	26	17.33	17.42	17.34				
10	QPSK	25	0	17.40	17.46	17.42			19	5
10	QPSK	25	12	17.35	17.40	17.35				
Tune-up										
Frequency (MHz)										
3	QPSK	1	0	22.95	22.98	22.85			24	0
3	QPSK	1	8	22.83	22.88	22.81				
3	QPSK	1	16	22.72	22.83	22.74			23	1
3	QPSK	1	24	21.77	21.90	21.81				
3	QPSK	8	4	21.79	21.87	21.80			23	1
3	QPSK	1	0	21.84	21.86	21.79				
3	QPSK	15	0	21.73	21.82	21.75			23	1
3	QPSK	1	0	21.80	21.86	21.79				
3	QPSK	1	14	21.60	21.75	21.66			22	2
3	QPSK	8	0	20.34	20.44	20.44				
3	QPSK	8	4	20.38	20.36	20.35			22	2
3	QPSK	8	8	20.28	20.36	20.35				
3	QPSK	15	0	20.49	20.53	20.48			22	2
3	QPSK	15	0	20.49	20.53	20.48				
3	QPSK	8	8	20.65	20.72	20.54			21	3
3	QPSK	1	14	20.54	20.57	20.58				
3	QPSK	8	4	19.37	19.38	19.35			19	5
3	QPSK	8	8	19.31	19.31	19.23				
3	QPSK	8	0	19.50	19.50	19.50			19	5
3	QPSK	1	0	17.53	17.70	17.55				
3	QPSK	1	8	17.53	17.69	17.60			19	5
3	QPSK	1	16	17.53	17.69	17.60				
3	QPSK	8	0	17.38	17.47	17.38			19	5
3	QPSK	8	4	17.38	17.38	17.29				
3	QPSK	15	0	17.42	17.53	17.42			19	5
3	QPSK	15	0	17.42	17.53	17.41				
Channel										
Frequency (MHz)										
14	QPSK	1	0	22.94	23.00	22.87			24	0
14	QPSK	1	3	22.81	22.89	22.80				
14	QPSK	1	5	22.81	22.84	22.80			23	1
14	QPSK	1	20	22.70	22.79	22.70				
14	QPSK	3	1	22.85	22.97	22.80			23	1
14	QPSK	3	3	22.77	22.83	22.84				
14	QPSK	3	5	22.78	22.89	22.78			23	1
14	QPSK	1	0	21.87	21.88	21.83				
14	QPSK	3	3	21.79	21.85	21.83			23	1
14	QPSK	3	5	21.77	21.82	21.77				
14	QPSK	3	0	21.74	21.78	21.74			19	5
14	QPSK	3	1	21.69	21.73	21.68				
14	QPSK	6	0	21.72	21.72	21.68			22	2
14	QPSK	6	0	20.43	20.47	20.43				
14	QPSK	1	0	20.37	20.40	20.29			22	2
14	QPSK	1	0	20.37	20.41	20.29				
14	QPSK	1	0	20.50	20.50	20.50			21	3
14	QPSK	3	0	20.72	20.71	20.59				
14	QPSK	3	0	20.71	20.71	20.64			19	5
14	QPSK	3	0	20.45	20.67	20.53				
14	QPSK	6	0	19.46	19.46	19.34			19	5
14	QPSK	6	0	19.46	19.46	19.34				
14	QPSK	3	1	17.51	17.58	17.54			19	5
14	QPSK	3	0	17.36	17.52	17.49				
14	QPSK	3	0	17.36	17.43	17.34			19	5
14	QPSK	3	1	17.33	17.42	17.28				
14	QPSK	3	3	17.30	17.39	17.34			19	5
14	QPSK	3	0	17.32	17.39	17.32				

Band 17 Ant0 Default												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	APRS (dB)				
Channel												
Frequency (MHz)												
16	QPSK	1	0	22.90	22.97	22.81	24	0				
16	QPSK	1	24	22.85	22.92	22.85						
16	QPSK	1	48	22.81	22.85	22.81						
16	QPSK	25	0	21.52	21.55	21.51						
16	QPSK	25	12	21.40	21.50	21.41	23	1				
16	QPSK	25	24	21.29	21.43	21.36						
16	QPSK	50	0	21.48	21.51	21.50						
16	16QAM	1	0	21.72	21.73	21.67						
16	16QAM	1	24	21.73	21.77	21.65	23	1				
16	16QAM	1	48	21.65	21.70	21.62						
16	16QAM	25	0	20.48	20.51	20.38						
16	16QAM	25	12	20.50	20.58	20.36						
16	16QAM	25	24	20.35	20.49	20.25	22	2				
16	16QAM	50	0	20.42	20.54	20.38						
16	64QAM	1	0	20.71	20.80	20.60						
16	64QAM	1	24	20.60	20.75	20.52						
16	64QAM	1	48	20.55	20.68	20.51	21	3				
16	64QAM	25	0	19.49	19.58	19.37						
16	64QAM	25	12	19.44	19.51	19.30						
16	64QAM	25	24	19.37	19.44	19.27						
16	64QAM	50	0	19.43	19.49	19.34	19	5				
16	256QAM	1	0	17.63	17.76	17.55						
16	256QAM	1	24	17.68	17.71	17.53						
16	256QAM	1	48	17.63	17.64	17.41						
16	256QAM	25	0	17.43	17.55	17.33	19	5				
16	256QAM	25	12	17.38	17.50	17.29						
16	256QAM	25	24	17.29	17.43	17.19						
16	256QAM	50	0	17.48	17.52	17.37						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.88	22.90	22.72	24	0				
5	QPSK	1	12	22.82	22.89	22.74						
5	QPSK	1	24	22.69	22.75	22.71						
5	QPSK	12	0	21.43	21.41	21.48						
5	QPSK	12	7	21.31	21.41	21.37	23	1				
5	QPSK	12	13	21.17	21.30	21.19						
5	QPSK	25	0	21.86	21.81	21.87						
5	16QAM	1	0	21.61	21.79	21.61						
5	16QAM	1	12	21.61	21.71	21.55	23	1				
5	16QAM	1	24	21.46	21.58	21.35						
5	16QAM	12	0	20.34	20.57	20.29						
5	16QAM	12	7	20.44	20.49	20.25						
5	16QAM	12	13	20.26	20.26	20.15	22	2				
5	16QAM	25	0	20.54	20.48	20.28						
5	16QAM	25	0	20.34	20.48	20.28						
5	64QAM	1	0	20.67	20.73	20.50						
5	64QAM	1	12	20.55	20.61	20.41	22	2				
5	64QAM	1	24	20.48	20.57	20.35						
5	64QAM	12	0	19.45	19.44	19.33						
5	64QAM	12	7	19.33	19.37	19.27						
5	64QAM	12	13	19.25	19.37	19.13	21	3				
5	64QAM	25	0	19.93	19.94	19.59						
5	256QAM	1	0	17.52	17.69	17.47						
5	256QAM	1	12	17.61	17.59	17.40						
5	256QAM	1	24	17.40	17.57	17.32	19	5				
5	256QAM	12	0	17.30	17.46	17.18						
5	256QAM	12	7	17.27	17.35	17.19						
5	256QAM	12	13	17.20	17.30	17.13						
5	256QAM	25	0	17.43	17.44	17.26	19	5				

Band 25 Ant0 Default												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turnup time (sec)	APRS (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.13	23.18	23.08	24	0				
20	QPSK	1	48	23.03	23.13	22.97						
20	QPSK	1	96	22.89	23.06	22.77						
20	QPSK	50	0	22.02	22.05	21.94						
20	QPSK	24	0	21.90	21.93	21.80	23	1				
20	QPSK	50	50	21.78	21.93	21.67						
20	QPSK	100	0	21.99	22.02	21.91						
20	16QAM	1	0	21.89	21.97	21.83						
20	16QAM	1	48	21.89	22.10	21.61	23	1				
20	16QAM	1	96	21.73	22.02	21.61						
20	16QAM	5	0	20.45	20.59	20.47						
20	16QAM	50	24	20.48	20.55	20.44	22	2				
20	16QAM	50	50	20.41	20.50	20.36						
20	16QAM	100	0	20.43	20.57	20.45						
20	64QAM	1	0	20.75	20.92	20.59						
20	64QAM	1	48	20.54	20.89	20.52	22	2				
20	64QAM	1	96	20.57	20.87	20.46						
20	64QAM	50	0	19.43	19.84	19.40						
20	64QAM	50	24	19.41	19.82	19.26						
20	64QAM	50	50	19.38	19.80	19.43	21	3				
20	64QAM	100	0	19.38	19.86	19.38						
20	256QAM	1	0	17.68	17.67	17.51						
20	256QAM	1	48	17.69	17.81	17.52						
20	256QAM	1	96	17.65	17.79	17.48	19	5				
20	256QAM	25	0	17.40	17.46	17.27						
20	256QAM	25	24	17.31	17.79	17.31						
20	256QAM	50	50	17.30	17.64	17.37						
20	256QAM	100	0	17.45	17.77	17.35	19	5				
20	256QAM	1	0	16.15	16.40	16.15						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.88	23.04	22.83	24	0				
15	QPSK	1	12	22.89	23.08	22.87						
15	QPSK	1	24	22.79	22.98	22.72						
15	QPSK	12	0	21.69	22.01	21.80						
15	QPSK	25	12	21.89	21.98	21.72	23	1				
15	QPSK	36	36	21.70	21.79	21.54						
15	QPSK	75	0	21.60	21.69	21.60						
15	16QAM	1	0	21.77	21.87	21.69						
15	16QAM	1	37	21.55	22.01	21.58	23	1				
15	16QAM	1	74	21.63	21.98	21.62						
15	16QAM	36	0	20.38	20.76	20.36						
15	16QAM	36	20	20.37	20.80	20.32						
15	16QAM	36	36	20.33	20.81	20.38	22	2				
15	16QAM	75	0	20.33	20.81	20.38						
15	64QAM	1	0	20.65	20.68	20.47						
15	64QAM	1	37	20.62	20.65	20.45						
15	64QAM	1	74	20.47	20.77	20.42	22	2				
15	64QAM	36	0	19.31	19.73	19.33						
15	64QAM	36	36	19.33	19.74	19.34						
15	64QAM	75	0	19.29	19.70	19.33						
15	256QAM	1	0	17.62	17.74	17.34	19	5				
15	256QAM	1	37	17.47	17.68	17.43						
15	256QAM	1	74	17.47	17.74	17.34						
15	256QAM	36	0	17.36	17.61	17.35						
15	256QAM	36	20	17.24	17.68	17.22	19	5				
15	256QAM	36	39	17.23	17.54	17.24						
15	256QAM	75	0	17.40	17.47	17.25						
15	256QAM	1	0	16.15	16.40	16.15						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.03	23.14	23.03	24	0				
10	QPSK	1	24	22.84	23.08	22.68						
10	QPSK	1	48	22.77	23.07	22.69						
10	QPSK	1	96	22.69	23.06	22.68						
10	QPSK	25	12	21.84	21.95	21.70	23	1				
10	QPSK	25	25	21.67	21.80	21.53						
10	QPSK	50	0	21.60	21.77	21.57						
10	16QAM	1	0	21.83	21.88	21.68						
10	16QAM	1	26	21.57	22.03	21.54	23	1				
10	16QAM	1	52	21.65	21.98	21.67						
10	16QAM	25	12	20.40	20.71	20.38						
10	16QAM	25	25	20.42	20.76	20.39						
10	16QAM	25	50	20.37	20.79	20.39	22	2				
10	16QAM	50	0	20.37	20.79	20.39						
10	64QAM	1	0	20.66	20.79	20.48						
10	64QAM	1	26	20.64	20.78	20.47						
10	64QAM	1	52	20.52	20.79	20.38	22	2				
10	64QAM	25	0	20.42	20.74	20.42						
10	64QAM	25	12	19.36	19.71	19.30						
10	64QAM	25	25	19.34	19.67	19.40						
10	64QAM	25	50	19.33	19.68	19.40	21	3				
10	64QAM	50	0	19.33	19.68	19.40						
10	256QAM	1	0	17.58	17.52	17.38						
10	256QAM	1	26	17.47	17.74	17.37						
10	256QAM	1	52	17.53	17.79	17.38	19	5				
10	256QAM	25	0	17.30	17.56	17.25						
10	256QAM	25	12	17.21	17.50	17.20						
10	256QAM	25	25	17.21	17.50	17.20						
10	256QAM	25	50	17.21	17.50	17.20	19	5				
10	256QAM	50	0	17.35	17.57	17.30						
10	256QAM	1	0	16.15	16.40	16.15						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.03	23.04	23.02				24	0	
5	QPSK	1	12	22.83	23.07	22.68						
5	QPSK	1	24	22.78	23.06	22.69						
5	QPSK	12	0	21.84	21.91	21.85						
5	QPSK	12	7	21.85	21.87	21.68	23	1				
5	QPSK	12	14	21.83	21.87	21.67						
5	16QAM	1	0	21.68	21.68	21.48						
5	16QAM	1	24	21.68	21.68	21.48						
5	16QAM	12	0	20.38	20.78	20.41	22	2				
5	16QAM	12	12	20.38	20.78	20.41						
5	16QAM	12	13	20.39	20.80	20.31						
5	16QAM	12	25	20.39	20.72	20.41						
5	16QAM	25	0	20.34	20.74	20.34	22	2				
5	16QAM	25	12	20.40	20.83	20.38						
5	16QAM	25	13	20.40	20.83	20.38						
5	64QAM	1	0	20.38	20.78	20.41						
5	64QAM	12	0	19.36	19.76	19.27	21	3				
5	64QAM	12	12	19.39	19.76	19.27						
5	64QAM	12	13	19.33	19.77	19.28						
5	64QAM	12	25	19.36	19.76	19.27						
5	64QAM	25	0	17.64	17.72	17.43	19	5				
5	64QAM	25	12	17.48	17.68	17.43						
5	256QAM	1	0	17.48	17.67	17.43						
5	256QAM	1	12	17.47	17.67	17.43						
5	256QAM	12	0	17.27	17.68	17.27	19	5				
5	256QAM	12	12	17.27	17.68	17.27						
5	256QAM	12	13	17.27	17.68	17.27						
5	256QAM	12	25	17.19	17.60	17.23						
5	256QAM	25	0	17.35	17.70	17.24	19	5				
5	256QAM	1	0	16.15	16.40	16.15						
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.07	23.06	22.97				24	0	
3	QPSK	1	4	22.89	23.09	22.71						
3	QPSK	1	8	22.92	23.08	22.74						
3	QPSK	8	0	21.89	21.99	21.87						
3	QPSK	8	4	21.88	21.87	21.63	23	1				
3	QPSK	8	8	21.88	21.84	21.63						
3	QPSK	16	0	21.85	21.90	21.83						
3	16QAM	1	0	21.85	21.96	21.80						
3	16QAM	1	14	21.58	21.96	21.48	23	1				
3	16QAM	1	28	21.63	21.95	21.48						
3	16QAM	8	4	20.43	20.75	20.39						
3	16QAM	8	8	20.43	20.75	20.39						
3	16QAM	8	7	20.33	20.75	20.32	22	2				
3	16QAM	8	14	20.37	20.75	20.32						
3	16QAM	16	0	20.65	20.80	20.45						
3	16QAM	16	8	20.45	20.83	20.43						
3	16QAM	8	4	19.33	19.76	19.33	21	3				
3	16QAM	8	8	19.33	19.76	19.33						
3	16QAM	16	0	19.28	19.76	19.28						
3	16QAM	16	8	19.28	19.76	19.28						
3	16QAM	16	7	17.65	17.62	17.38	19	5				
3	256QAM	1	0	17.65	17.62	17.38						
3	256QAM	1	8	17.24	17.65	17.42						
3	256QAM	14	14	17.17	17.67	17.37						
3	256QAM	8	0	17.31	17.74	17.27	19	5				
3	256QAM	8	7	17.24	17.65	17.27						
3	256QAM	8	7	17.26	17.49	17.28						
3	256QAM	16	0	17.24	17.63	17.27						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.07	23.06	22.97	24	0				
1.4	QPSK	1	4	22.89	23.09	22.71						
1.4	QPSK	1	8	22.92	23.08	22.74						
1.4	QPSK	8	0	21.89	21.99	21.87						
1.4	QPSK	8	4	21.88	21.87	21.63	23	1				
1.4	QPSK	8	8	21.88	21.84	21.63						
1.4	QPSK	16	0	21.85	21.90	21.83						
1.4	16QAM	1	0	21.85	21.96	21.80						
1.4	16QAM	1	14	21.58	21.96	21.48	23	1				
1.4	16QAM	1	28	21.63	21.95	21.48						
1.4	16QAM	8	4	20.43	20.75	20.39						
1.4	16QAM	8	8	20.43	20.75	20.39						
1.4	16QAM	8	7	20.33	20.75	20.32	22	2				
1.4	16QAM	8	14	20.37	20.75	20.32						
1.4	16QAM	16	0	20.65	20.80	20.45						
1.4	16QAM	16	8	20.45	20.83	20.43						
1.4	16QAM	8	4	19.33	19.76	19.33	21	3				
1.4	16QAM	8	8	19.33	19.76	19.33						
1.4	16QAM	16	0	19.28	19.76	19.28						
1.4	16QAM	16	8	19.28	19.76	19.28						
1.4	16QAM	16	7	17.65	17.62	17.38	19	5				
1.4	256QAM	1	0	17.65	17.62	17.38						
1.4	256QAM	1	8	17.24	17.65	17.42						
1.4	256QAM	14	14	17.17	17.67	17.37						
1.4	256QAM	8	0	17.31	17.74	17.27	19	5				
1.4	256QAM	8	7	17.24	17.65	17.27						
1.4	256QAM	8	7	17.26	17.49	17.28						
1.4	256QAM	16	0	17.24	17.63	17.27</						

Band 30 Ant0 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
16	QPSK	1	0	23.02	23.02	23.02	24	0	
16	QPSK	1	24	22.97	23.15	23.15			
16	QPSK	1	48	22.90	23.10	23.14			
16	QPSK	25	0	22.91	23.11	23.11			
16	QPSK	25	12	21.86	22.13	22.23	23	1	
16	QPSK	25	24	21.79	22.15	22.08			
16	QPSK	50	0	22.86	22.23	22.15			
16	QPSK	50	12	22.77	22.33	22.27			
16	16QAM	1	24	22.22	22.22	22.22	23	1	
16	16QAM	1	48	22.15	22.15	22.15			
16	16QAM	25	0	20.95	21.30	21.30			
16	16QAM	25	12	20.91	21.29	21.13			
16	16QAM	25	24	20.84	21.18	21.09	22	2	
16	16QAM	50	0	20.85	21.18	21.29			
16	16QAM	50	12	19.21	20.95	20.95			
16	16QAM	50	24	19.21	20.95	20.95			
16	84QAM	1	0	21.07	21.07	21.07	22	2	
16	84QAM	1	48	21.00	21.00	21.00			
16	84QAM	25	0	19.06	19.06	19.06			
16	84QAM	25	12	19.21	19.21	19.21			
16	84QAM	50	0	19.83	19.83	19.83	21	3	
16	84QAM	50	12	19.11	19.11	19.11			
16	84QAM	50	24	19.83	19.83	19.83			
16	84QAM	50	48	19.83	19.83	19.83			
16	256QAM	1	24	17.95	17.95	17.95	19	5	
16	256QAM	1	48	17.89	17.89	17.89			
16	256QAM	25	0	17.89	17.89	17.89			
16	256QAM	25	12	17.84	17.84	17.84			
16	256QAM	25	24	17.77	17.77	17.77	19	5	
16	256QAM	25	48	17.77	17.77	17.77			
16	256QAM	50	0	17.79	17.79	17.79			
16	256QAM	50	12	17.79	17.79	17.79			
16	256QAM	50	24	17.79	17.79	17.79			
16	256QAM	50	48	17.79	17.79	17.79			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.95	23.03	22.85	24	0	
5	QPSK	1	12	22.88	22.97	22.81			
5	QPSK	1	24	22.85	22.90	22.78			
5	QPSK	12	0	21.87	21.91	21.77			
5	QPSK	12	7	21.71	21.86	21.63	23	1	
5	QPSK	12	13	21.64	21.79	21.56			
5	QPSK	25	0	21.76	21.86	21.68			
5	QPSK	25	7	22.17	22.17	22.12			
5	16QAM	1	12	22.14	22.22	22.09	23	1	
5	16QAM	1	24	22.04	22.15	21.94			
5	16QAM	12	0	20.92	20.96	20.81			
5	16QAM	12	7	20.79	20.91	20.71			
5	16QAM	12	13	20.81	20.94	20.69	22	2	
5	16QAM	25	0	20.81	20.85	20.68			
5	84QAM	1	0	21.02	21.12	20.91			
5	84QAM	1	12	20.94	21.07	20.89			
5	84QAM	1	24	20.97	21.05	20.92	21	3	
5	84QAM	12	0	19.30	19.32	19.21			
5	84QAM	12	7	19.15	19.25	19.12			
5	84QAM	12	13	19.14	19.15	19.05			
5	84QAM	25	0	19.68	19.83	19.61	19	5	
5	256QAM	1	0	17.95	18.01	17.91			
5	256QAM	1	12	17.86	17.96	17.91			
5	256QAM	1	24	17.77	17.89	17.64			
5	256QAM	12	0	17.76	17.89	17.72	19	5	
5	256QAM	12	7	17.76	17.84	17.70			
5	256QAM	12	13	17.69	17.77	17.64			
5	256QAM	25	0	17.74	17.86	17.62			

Band 66 Ant0 Default												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 150072	Power Mid Ch./Freq. 150322	Power High Ch./Freq. 150512	Turn-up time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.24	23.26	23.11	24	0				
20	QPSK	1	48	23.15	23.21	23.08						
20	QPSK	1	96	23.10	23.14	22.98						
20	QPSK	50	0	22.17	22.27	22.24						
20	QPSK	24	0	22.13	22.23	22.08	23	1				
20	QPSK	50	50	22.11	22.15	22.08						
20	QPSK	100	0	22.13	22.22	22.15						
20	16QAM	1	0	22.33	22.48	22.27						
20	16QAM	1	48	22.29	22.43	22.19	23	1				
20	16QAM	1	96	22.24	22.36	22.17						
20	16QAM	50	0	21.30	21.36	21.17						
20	16QAM	50	24	21.19	21.31	21.13						
20	16QAM	50	50	21.14	21.24	21.04	22	2				
20	16QAM	100	0	21.18	21.29	21.04						
20	84QAM	1	0	21.31	21.49	21.27						
20	84QAM	1	48	21.30	21.36	21.16						
20	84QAM	1	96	21.17	21.28	21.09	22	2				
20	84QAM	50	0	20.25	20.33	20.21						
20	84QAM	50	24	20.22	20.28	20.13						
20	84QAM	50	50	20.15	20.21	20.04						
20	84QAM	100	0	20.14	20.27	20.08	21	3				
20	256QAM	1	0	18.22	18.34	18.16						
20	256QAM	1	48	18.16	18.28	18.07						
20	256QAM	1	99	18.12	18.22	18.08						
20	256QAM	1	96	18.12	18.24	18.04	19	5				
20	256QAM	25	0	18.14	18.21	18.02						
20	256QAM	50	50	17.99	18.14	17.88						
20	256QAM	100	0	18.18	18.25	18.06						
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.17	23.18	22.86	24	0				
15	QPSK	1	37	23.02	23.08	22.87						
15	QPSK	1	74	23.04	23.11	22.85						
15	QPSK	36	0	22.11	22.23	22.11						
15	QPSK	36	20	22.09	22.07	22.03	23	1				
15	QPSK	36	36	22.03	22.01	21.99						
15	QPSK	75	0	22.08	22.11	22.04						
15	16QAM	1	0	22.22	22.42	22.32						
15	16QAM	1	37	22.15	22.35	22.14	23	1				
15	16QAM	1	74	22.02	22.14	21.94						
15	16QAM	36	0	21.19	21.32	21.15						
15	16QAM	36	20	21.12	21.22	21.08						
15	16QAM	36	36	21.03	21.23	20.95	22	2				
15	84QAM	1	0	21.22	21.38	21.18						
15	84QAM	1	37	21.11	21.25	21.04						
15	84QAM	1	74	21.05	21.21	21.07						
15	84QAM	36	0	20.14	20.21	20.16	21	3				
15	84QAM	36	20	20.12	20.14	20.02						
15	84QAM	36	36	20.01	20.11	19.94						
15	84QAM	75	0	20.02	20.19	19.83						
15	256QAM	1	0	18.16	18.24	18.04	19	5				
15	256QAM	1	37	18.03	18.26	17.95						
15	256QAM	1	74	18.02	18.12	17.91						
15	256QAM	36	0	18.16	18.15	18.02						
15	256QAM	36	20	18.07	18.09	17.96	19	5				
15	256QAM	36	39	17.90	18.07	17.89						
15	256QAM	75	0	18.15	18.10	18.04						
15	256QAM	75	0	18.15	18.10	18.04						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.17	23.18	22.84	24	0				
10	QPSK	1	24	23.01	23.12	22.84						
10	QPSK	1	48	22.95	23.05	22.88	23	1				
10	QPSK	1	72	22.86	22.97	22.81						
10	QPSK	25	12	22.00	22.24	22.00	23	1				
10	QPSK	25	24	22.04	22.05	22.00						
10	QPSK	25	36	22.02	22.14	22.01	23	1				
10	16QAM	1	0	22.28	22.39	22.18						
10	16QAM	1	24	22.26	22.29	22.11	23	1				
10	16QAM	1	48	22.19	22.27	22.10						
10	16QAM	25	0	21.25	21.33	21.07	22	2				
10	16QAM	25	12	21.12	21.27	21.07						
10	16QAM	25	24	21.08	21.20	21.01	22	2				
10	16QAM	50	0	21.04	21.19	21.00						
10	16QAM	1	0	21.26	21.28	21.11	22	2				
10	16QAM	1	48	21.19	21.25	21.08						
10	16QAM	1	96	21.14	21.21	21.02	22	2				
10	84QAM	1	0	21.27	21.43	21.20						
10	84QAM	1	48	21.04	21.17	21.00	21	3				
10	84QAM	1	96	21.00	21.10	20.90						
10	84QAM	25	12	20.09	20.24	20.01	21	3				
10	84QAM	25	24	20.07	20.15	19.98						
10	84QAM	25	36	20.05	20.18	19.94	20	5				
10	256QAM	1	0	18.18	18.21	18.05						
10	256QAM	1	24	18.05	18.15	17.86	19	5				
10	256QAM	1	48	18.02	18.12	17.85						
10	256QAM	25	0	18.12	18.12	18.01	19	5				
10	256QAM	25	12	18.05	18.18	17.91						
10	256QAM	25	24	18.03	18.09	17.83	19	5				
10	256QAM	50	0	18.08	18.15	17.89						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.17	23.18	22.84	24	0				
5	QPSK	1	12	23.10	23.11	23.03						
5	QPSK	1	24	23.03	23.04	22.96	23	1				
5	QPSK	12	7	21.99	22.12	21.88						
5	QPSK	25	0	22.07	22.14	22.01	23	1				
5	QPSK	25	12	22.08	22.22	22.05						
5	QPSK	25	24	22.06	22.18	22.02	23	1				
5	16QAM	1	0	22.23	22.44	22.23						
5	16QAM	1	12	22.26	22.43	22.26	23	1				
5	16QAM	1	24	22.18	22.21	22.13						
5	16QAM	12	0	21.25	21.29	21.14	22	2				
5	16QAM	12	12	21.09	21.24	21.05						
5	16QAM	12	18	21.07	21.15	20.90	22	2				
5	16QAM	25	0	21.11	21.19	20.94						
5	16QAM	25	12	21.22	21.34	21.07	22	2				
5	16QAM	1	12	21.23	21.21	21.12						
5	16QAM	25	24	21.13	21.25	21.00	21	3				
5	16QAM	12	6	20.19	20.28	20.08						
5	16QAM	12	18	20.15	20.28	20.05	21	3				
5	84QAM	1	0	20.01	20.18	19.94						
5	84QAM	1	6	18.15	18.22	18.02	19	5				
5	84QAM	1	12	18.17	18.17	18.03						
5	84QAM	1	24	18.02	18.07	18.00	19	5				
5	256QAM	12	0	18.13	18.12	18.01						
5	256QAM	12	12	18.05	18.15	17.85	19	5				
5	256QAM	12	18	17.85	18.05	17.82						
5	256QAM	25	0	18.04	18.17	17.89	19	5				
5	256QAM	25	0	18.04	18.17	17.89						
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.17	23.18	22.84	24	0				
3	QPSK	1	12	23.10	23.11	23.03						
3	QPSK	1	14	23.06	23.08	22.98	23	1				
3	QPSK	8	6	22.05	22.24	22.20						
3	QPSK	8	6	22.08	22.12	22.03	23	1				
3	QPSK	15	6	21.99	22.08	22.12						
3	16QAM	1	0	22.23	22.44	22.23	23	1				
3	16QAM	1	6	22.21	22.36	22.23						
3	16QAM	1	14	22.13	22.29	22.08	22	2				
3	16QAM	8	6	21.14	21.21	21.04						
3	16QAM	8	6	21.14	21.21	21.04	22	2				
3	84QAM	1	6	21.21	21.31	21.05						
3	84QAM	8	6	20.11	20.24	19.99	21	3				
3	84QAM	8	6	20.11	20.24	19.99						
3	256QAM	1	0	18.11	18.21	18.02	19	5				
3	256QAM	1	6	18.11	18.22	18.19						
3	256QAM	1	14	17.97	18.12	17.94	19	5				
3	256QAM	8	6	18.07	18.15	17.97						
3	256QAM	8	6	18.07	18.15	17.97	19	5				
3	256QAM	8	7	17.89	18.09	17.81						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.11	23.19	22.97	24	0				
1.4	QPSK	1	6	23.05	23.08	22.88						
1.4	QPSK	1	6	23.10	23.13	22.98	23	1				
1.4	QPSK	3	6	22.22	22.25	22.12						
1.4	QPSK	3	6	22.29	22.11	22.25	23	1				
1.4	QPSK	1	0	22.09	22.05	22.01						
1.4	16QAM	1	3	22.08	22.08	22.03	23	1				
1.4	16QAM	1	3	22.08	22.08	22.03						
1.4	16QAM	3	3	22.26	22.42	22.13	22	2				
1.4	16QAM	3	1	22.21	22.31	22.07						
1.4	16QAM	3	1	22.26	22.33	22.06	22	2				
1.4	84QAM	1	0	21.24	21.29	21.10						
1.4	84QAM	1	0	21.15	21.21	21.07	22	2				
1.4	84QAM	3	3	21.27	21.29	21.25						
1.4	84QAM	3	3	21.28	21.23	21.19	22	2				
1.4	84QAM	3	3	21.07	21.11	20.94						
1.4	84QAM	6	6	20.11	20.24	19.93	21	3				
1.4	256QAM	1	0	18.02	18.12	17.98						
1.4	256QAM	1	0	18.08	18.20	18.02	19	5				
1.4	256QAM	1	6	18.02	18.10	17.94						
1.4	256QAM	1	6	18.02	18.10	17.94	19	5				
1.4	256QAM	6	6	18.09	18.10	18.01						



Band 38 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37950	38050	38150			
20	QPSK	1	0	23.15	23.15	23.14			
20	QPSK	1	49	23.02	23.11	23.04	24	0	
20	QPSK	1	89	22.96	23.04	22.98			
20	QPSK	50	0	22.14	22.19	22.16			
20	QPSK	50	24	22.08	22.14	22.01			
20	QPSK	50	49	22.02	22.13	21.97	23	1	
20	QPSK	100	0	22.11	22.13	22.09			
20	QPSK	1	0	22.06	22.18	21.94			
20	HQAM	1	49	22.02	22.13	21.97	23	1	
20	HQAM	1	99	22.00	22.19	21.96			
20	HQAM	50	24	21.97	22.18	21.90			
20	HQAM	50	49	21.91	22.16	21.85			
20	HQAM	50	50	20.98	21.09	20.85	22	2	
20	HQAM	100	0	21.96	22.17	21.90			
20	HQAM	1	0	20.99	20.95	20.75			
20	HQAM	1	49	20.97	20.95	20.85	22	2	
20	HQAM	1	99	20.75	20.93	20.91			
20	HQAM	50	0	20.99	20.93	20.95			
20	HQAM	50	24	20.13	20.18	20.09			
20	HQAM	50	50	20.03	20.11	19.90	21	3	
20	HQAM	100	0	20.01	20.14	19.97			
20	25QAM	1	0	18.09	18.13	18.03			
20	25QAM	1	49	18.04	18.06	18.00	19	5	
20	25QAM	1	99	17.95	18.01	17.90			
20	25QAM	50	0	18.16	18.24	18.09			
20	25QAM	50	24	18.16	18.19	18.08			
20	25QAM	50	50	18.06	18.12	17.92	19	5	
20	25QAM	100	0	18.04	18.16	18.01			
Channel									
Frequency (MHz)				37925	38025	38125	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	23.15	23.15	23.14			
15	QPSK	1	37	22.86	23.06	22.98	24	0	
15	QPSK	1	74	22.94	22.80	22.94			
15	QPSK	36	0	22.05	22.11	22.11			
15	QPSK	36	20	22.01	22.08	21.93	23	1	
15	QPSK	36	36	22.03	22.02	21.97			
15	QPSK	75	0	22.03	22.02	22.03			
15	HQAM	1	0	22.02	22.14	21.85			
15	HQAM	1	37	21.90	22.00	21.78	23	1	
15	HQAM	1	74	21.90	22.01	21.90			
15	HQAM	36	0	21.00	21.11	20.86			
15	HQAM	36	20	21.00	21.09	20.90	22	2	
15	HQAM	36	36	20.93	21.04	20.76			
15	HQAM	75	0	20.94	21.13	20.85			
15	HQAM	75	20	20.91	20.91	20.85			
15	HQAM	1	37	20.79	20.79	20.61	22	2	
15	HQAM	1	74	20.63	20.76	20.54			
15	HQAM	36	0	20.90	20.13	19.94			
15	HQAM	36	20	20.96	20.11	19.95	21	3	
15	HQAM	36	36	20.90	20.09	19.90			
15	HQAM	75	0	19.97	20.00	19.95			
15	25QAM	1	0	17.95	18.02	17.88			
15	25QAM	1	37	17.90	17.99	17.83	19	5	
15	25QAM	1	74	17.80	17.89	17.73			
15	25QAM	36	0	18.02	18.18	17.93			
15	25QAM	36	20	18.04	18.04	17.90			
15	25QAM	36	36	17.99	18.06	17.85			
15	25QAM	75	0	18.04	18.46	18.06			
Channel									
Frequency (MHz)				25715	25715	25715	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.01	23.01	23.01			
5	QPSK	1	25	22.92	22.99	22.98	24	0	
5	QPSK	1	49	22.90	22.87	22.86			
5	QPSK	12	0	22.90	22.97	22.90			
5	QPSK	25	12	21.96	22.05	21.89	23	1	
5	QPSK	25	25	21.95	21.97	21.87			
5	HQAM	1	0	21.96	22.14	21.87	23	1	
5	HQAM	1	25	21.99	22.03	21.74			
5	HQAM	1	49	21.98	21.99	21.87			
5	HQAM	25	0	21.01	21.08	20.93			
5	HQAM	25	12	21.01	21.11	20.86	22	2	
5	HQAM	25	25	20.90	21.01	20.80			
5	HQAM	50	0	20.98	21.03	20.88			
5	HQAM	50	12	20.90	21.00	20.80	22	2	
5	HQAM	50	25	20.79	20.80	20.52			
5	HQAM	1	49	20.62	20.75	20.50			
5	HQAM	25	0	19.94	20.15	20.00			
5	HQAM	25	12	20.01	20.03	20.03	21	3	
5	HQAM	25	25	19.92	19.98	19.79			
5	HQAM	50	0	19.94	20.19	19.92			
5	25QAM	1	0	17.95	18.09	17.90			
5	25QAM	1	25	17.97	18.05	17.82	19	5	
5	25QAM	1	49	17.81	17.87	17.85			
5	25QAM	12	0	17.98	18.17	17.86			
5	25QAM	25	12	18.05	18.06	18.04			
5	25QAM	25	25	17.97	18.01	17.95	19	5	
5	25QAM	50	0	18.48	18.50	18.33			
Channel									
Frequency (MHz)				25715.5	25715.5	25715.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.01	23.04	23.07			
5	QPSK	1	12	22.97	22.97	22.99	24	0	
5	QPSK	1	24	22.84	22.88	22.82			
5	QPSK	12	0	22.86	22.89	22.86			
5	QPSK	12	7	21.90	22.07	21.97	23	1	
5	QPSK	12	13	21.88	22.03	21.95			
5	QPSK	25	0	22.05	22.05	22.05			
5	HQAM	1	0	21.93	22.06	21.84	23	1	
5	HQAM	1	12	21.95	21.99	21.83			
5	HQAM	1	24	21.97	21.99	21.86			
5	HQAM	12	0	21.00	21.07	20.94			
5	HQAM	12	7	21.01	21.02	20.94	22	2	
5	HQAM	12	13	20.95	20.97	20.74			
5	HQAM	25	0	20.98	21.09	20.94			
5	HQAM	1	0	20.76	20.83	20.66			
5	HQAM	12	0	20.63	20.79	20.66	22	2	
5	HQAM	1	24	20.61	20.76	20.40			
5	HQAM	12	7	19.99	20.15	19.96	21	3	
5	HQAM	25	0	19.92	20.06	19.94			
5	HQAM	25	12	19.95	19.93	19.84			
5	25QAM	1	0	17.95	18.03	17.95			
5	25QAM	1	12	17.95	18.04	17.86	19	5	
5	25QAM	1	24	17.81	17.88	17.86			
5	25QAM	12	0	18.05	18.11	17.92			
5	25QAM	12	7	18.07	18.07	17.96			
5	25QAM	12	13	18.01	18.09	17.78	19	5	
5	25QAM	25	0	18.47	18.51	18.35			

Band 41 Ant0 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
15	QPSK	1	0	22.95	23.02	23.15	23.05	23.12		
15	QPSK	1	49	23.15	23.10	23.19	23.05	23.11	24	0
15	QPSK	1	99	23.09	23.16	23.19	23.02	23.01		
15	QPSK	50	0	22.12	22.17	22.20	22.19	22.19		
15	QPSK	50	24	22.14	22.08	22.21	22.08	22.07	23	1
15	QPSK	50	49	22.01	22.10	22.10	22.02	22.01		
15	QPSK	100	0	22.19	22.15	22.22	22.16	22.09		
15	16QAM	1	0	22.08	22.10	22.15	22.10	22.05		
15	16QAM	1	49	22.01	22.10	21.21	22.04	22.01	23	1
15	16QAM	1	99	21.98	21.85	22.03	21.91	21.98		
15	16QAM	50	24	21.13	21.12	21.06	21.20	21.13		
15	16QAM	50	24	21.17	21.16	21.21	21.15	21.15		
15	16QAM	50	50	21.08	21.07	21.14	21.04	21.06	22	2
15	16QAM	100	0	21.09	21.16	21.09	21.09	21.05		
15	64QAM	1	0	21.02	20.94	21.05	20.97	21.00		
15	64QAM	1	49	20.91	20.85	21.03	20.89	20.98	22	2
15	64QAM	1	99	20.90	20.85	20.85	20.85	20.83		
15	64QAM	50	0	20.19	20.11	20.24	20.13	20.15		
15	64QAM	50	24	20.06	20.04	20.19	20.14	20.15		
15	64QAM	50	50	19.98	20.05	20.12	20.04	20.09	21	3
15	64QAM	100	0	20.11	20.10	20.19	20.11	20.18		
15	25QAM	1	0	18.15	18.22	18.28	18.14	18.21		
15	25QAM	1	49	18.18	18.18	18.23	18.08	18.08	19	5
15	25QAM	1	99	18.12	18.11	18.16	18.06	18.12		
15	25QAM	50	0	18.16	18.16	18.22	18.12	18.12		
15	25QAM	50	24	18.06	18.11	18.17	18.08	18.12	19	5
15	25QAM	50	50	18.00	17.88	18.10	17.88	18.01		
15	25QAM	100	0	18.12	18.16	18.10	18.04	18.13		
Channel										
Frequency (MHz)				39720	40173	40620	41058	41515	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	0	22.95	23.03	23.15	23.07	23.19		
15	QPSK	1	49	23.15	23.02	23.14	23.03	23.15	24	0
15	QPSK	1	74	23.05	22.96	23.09	22.98	23.05		
15	QPSK	50	0	22.12	22.16	22.23	22.22	22.18		
15	QPSK	50	24	22.08	22.05	22.16	21.94	22.07	23	1
15	QPSK	50	49	22.01	22.08	22.10	21.98	22.05		
15	QPSK	75	0	22.08	22.03	22.17	22.11	21.95		
15	16QAM	1	0	22.02	22.04	22.09	22.04	21.99		
15	16QAM	1	49	21.97	21.93	21.97	21.91	21.88	23	1
15	16QAM	1	74	21.87	21.81	21.90	21.77	21.82		
15	16QAM	50	0	21.00	20.97	21.07	21.08	21.04		
15	16QAM	50	24	21.07	21.06	21.10	21.03	21.05	22	2
15	16QAM	50	49	21.02	20.93	21.00	20.97	21.01		
15	16QAM	75	0	21.01	21.04	21.06	20.99	21.05		
15	64QAM	1	0	20.90	20.80	20.93	20.97	20.96		
15	64QAM	1	37	20.84	20.85	20.94	20.87	20.93	22	2
15	64QAM	1	62	20.76	20.77	20.85	20.79	20.75		
15	64QAM	50	0	20.12	19.97	20.16	20.09	20.07		
15	64QAM	50	20	19.93	20.00	20.12	20.07	20.05	21	3
15	64QAM	50	49	19.91	20.00	20.10	19.98	20.04		
15	64QAM	75	0	19.87	19.99	20.14	19.98	20.10		
15	25QAM	1	0	18.02	18.05	18.09	17.99	18.03	19	5
15	25QAM	1	37	18.04	18.05	18.09	17.99	17.97		
15	25QAM	1	74	18.02	18.03	18.10	17.94	17.88		
15	25QAM	50	0	18.02	18.03	18.08	17.95	17.97		
15	25QAM	50	20	18.02	18.03	18.08	17.95	17.97	19	5
15	25QAM	50	49	17.86	17.88	17.88	17.82	17.87		
15	25QAM	75	0	18.06	18.05	18.10	17.97	17.88		
Channel										
Frequency (MHz)				39700	40160	40620	41058	41540	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	0	22.91	23.02	23.13	23.03	23.15		
15	QPSK	1	25	23.01	22.98	23.08	23.01	22.99	24	0
15	QPSK	1	50	22.96	22.94	23.03	22.95	22.93		
15	QPSK	25	0	22.01	22.06	22.20	22.13	22.07	23	00.07
15	QPSK	25	12	22.07	21.95	22.14	21.88	22.07		
15	QPSK	25	25	22.08	22.07	22.16	21.79	21.93	23	1
15	QPSK	50	0	22.02	22.10	22.13	22.05	21.99		
15	16QAM	1	0	22.01	22.02	22.07	22.01	21.94		
15	16QAM	1	25	21.96	21.90	22.01	21.95	21.93	23	1
15	16QAM	1	49	21.90	21.86	21.95	21.85	21.93		
15	16QAM	25	0	21.08	21.00	21.21	21.16	21.08		
15	16QAM	25	12	21.04	21.04	21.12	21.08	21.03	21	2
15	16QAM	25	25	20.99	20.99	21.10	20.91	20.92		
15	16QAM	50	0	20.08	20.11	20.25	20.18	20.14		
15	64QAM	1	0	20.90	20.79	20.99	20.97	20.94		
15	64QAM	1	25	20.78	20.81	20.96	20.84	20.92	22	2
15	64QAM	1	49	20.78	20.78	20.89	20.80	20.89		
15	64QAM	25	0	20.09	20.02	20.13	20.10	20.11		
15	64QAM	25	12	19.98	19.97	20.12	20.09	20.05	21	3
15	64QAM	25	25	19.98	19.97	20.08	19.96	19.91		
15	64QAM	50	0	20.05	20.05	20.13	19.96	20.01		
15	64QAM	50	25	19.98	19.98	20.11	19.91	19.91		
15	25QAM	1	0	18.07	18.10	18.13	18.02	17.96	19	5
15	25QAM	1	49	18.07	18.07	18.08	17.86	18.04		
15	25QAM	25	0	18.07	18.07	18.13	17.99	18.02		
15	25QAM	25	12	17.91	18.06	18.02	17.94	18.07		
15	25QAM	25	25	17.98	17.83	18.02	17.84	17.92		
15	25QAM	50	0	18.06	18.06	18.12	17.98	18.05		
Channel										
Frequency (MHz)				39675	40160	40620	41058	41565	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.86	22.97	23.13	23.04	23.16		
5	QPSK	1	12	23.05	23.01	23.14	22.93	23.03	24	00.0
5	QPSK	1	25	23.01	22.98	23.08	22.91	22.99		
5	QPSK	12	0	22.05	22.05	22.22	22.10	22.13		
5	QPSK	12	7	22.01	22.04	22.14	22.03	22.11	23	1
5	QPSK	12	13	21.89	21.90	22.09	21.92	22.00		
5	QPSK	25	0	22.14	22.04	22.15	22.07	22.03		
5	16QAM	1	0	21.94	22.02	22.08	21.97	21.91	23	1
5	16QAM	1	12	21.96	21.90	22.01	21.91	21.87		
5	16QAM	1	24	21.90	21.81	21.95	21.79	21.90		
5	16QAM	12	0	21.04	21.04	21.12	21.08	21.03	21	2
5	16QAM	12	7	21.08	21.04	21.13	21.01	21.03		
5	16QAM	12	13	20.93	20.94	21.07	20.98	20.93	22	2
5	64QAM	1	0	20.94	20.90	21.03	20.89	20.87		
5	64QAM	1	12	20.82	20.91	20.91	20.77	20.93		
5	64QAM	1	24	20.78	20.81	20.91	20.72	20.72	22	2
5	64QAM	12	0	20.10	20.05	20.18	20.09	20.10		
5	64QAM	12	7	19.99	19.97	20.11	20.07	20.03		
5	64QAM	12	13	19.99	19.98	20.01	19.91	19.95		
5	25QAM	1	0	18.08	18.07	18.12	18.04	18.08	19	5
5	25QAM	1	24	18.00	18.01	18.10	18.01	18.03		
5	25QAM	12	0	18.07	18.06	18.13	17.99	18.05		
5	25QAM	12	7	17.96	18.00	18.04	18.04	18.04		
5	25QAM	12	13	17.87	17.92	18.00	17.88	17.94	19	5



Band 2 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Max Ch./F.Freq.	Power Max Ch./F.Freq.	Power Max Ch./F.Freq.	Turn-up Time (sec)	MPR (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	22.97	23.17	23.05			
20	QPSK	1	49	21.14	21.27	21.18	24	0	
20	QPSK	1	99	22.89	23.07	22.96			
20	QPSK	50	0	22.12	22.15	22.14			
20	QPSK	50	24	21.88	21.99	21.93	23	1	
20	QPSK	50	50	21.88	22.02	21.89			
20	QPSK	100	0	22.08	22.10	22.08			
20	QPSK	100	24	22.35	22.45	22.37	23	1	
20	16QAM	1	99	22.23	22.33	22.29			
20	16QAM	50	24	21.14	21.23	21.14			
20	16QAM	50	50	21.14	21.18	21.14	22	2	
20	16QAM	100	0	21.00	21.11	21.04			
20	16QAM	100	24	21.21	21.34	21.25			
20	64QAM	1	49	21.24	21.29	21.15	22	2	
20	64QAM	1	99	21.15	21.29	21.07			
20	64QAM	50	0	20.20	20.24	20.15			
20	64QAM	50	24	20.15	20.19	20.13	21	3	
20	64QAM	50	50	20.07	20.15	20.08			
20	64QAM	100	0	20.19	20.26	20.17			
20	256QAM	1	49	18.23	18.27	18.21	19	5	
20	256QAM	1	99	18.10	18.22	18.14			
20	256QAM	50	24	18.05	18.15	18.00			
20	256QAM	50	50	18.13	18.18	18.07	19	5	
20	256QAM	50	50	18.02	18.13	18.02			
20	256QAM	100	0	17.96	18.06	18.02			
20	256QAM	100	0	18.14	18.21	18.08			
Channel									
Frequency [MHz]									
15	QPSK	1	0	22.92	23.08	22.96			
15	QPSK	1	24	22.81	23.01	22.90	24	0	
15	QPSK	1	74	22.83	22.87	22.89			
15	QPSK	36	0	22.19	22.13	22.19			
15	QPSK	36	24	22.07	22.10	22.08	23	1	
15	QPSK	36	39	21.87	22.09	21.98			
15	QPSK	75	0	22.13	22.07	22.11			
15	16QAM	1	24	22.20	22.32	22.26			
15	16QAM	1	37	22.23	22.27	22.24	23	1	
15	16QAM	1	74	22.22	22.27	22.24			
15	16QAM	36	0	21.02	21.15	21.13			
15	16QAM	36	20	21.00	21.06	20.99	22	2	
15	16QAM	75	0	21.10	21.19	21.00			
15	64QAM	1	0	21.08	21.25	21.17			
15	64QAM	1	24	21.14	21.21	21.07	22	2	
15	64QAM	1	74	21.11	21.15	20.98			
15	64QAM	36	0	20.09	20.10	20.05			
15	64QAM	36	20	20.02	20.04	19.97	21	3	
15	64QAM	36	39	20.02	20.04	19.97			
15	64QAM	75	0	20.12	20.17	20.11			
15	256QAM	1	37	18.07	18.09	18.08	19	5	
15	256QAM	1	74	17.96	18.05	17.93			
15	256QAM	36	20	17.94	18.03	17.96	19	5	
15	256QAM	36	39	17.83	17.87	17.88			
15	256QAM	75	0	18.10	18.07	18.00			
Channel									
Frequency [MHz]									
10	QPSK	1	0	22.96	23.00	22.98			
10	QPSK	1	25	22.96	23.03	22.95	24	0	
10	QPSK	1	49	22.77	22.91	22.89			
10	QPSK	12	0	21.88	22.04	21.89	23	1	
10	QPSK	25	25	21.82	21.86	21.83			
10	QPSK	25	50	21.82	21.86	21.83			
10	16QAM	1	0	22.07	22.20	22.17			
10	16QAM	1	25	22.14	22.22	22.04	23	1	
10	16QAM	1	49	22.08	22.19	22.14			
10	16QAM	25	0	21.07	21.13	21.05			
10	16QAM	25	12	21.03	21.08	21.03	22	2	
10	16QAM	25	12	21.03	21.08	21.03			
10	16QAM	50	0	21.08	21.18	21.03			
10	64QAM	1	0	21.08	21.23	21.15			
10	64QAM	1	25	21.13	21.23	21.11	22	2	
10	64QAM	1	49	21.08	21.18	21.03			
10	64QAM	25	0	20.08	20.12	20.10			
10	64QAM	25	12	19.15	19.15	19.05	21	3	
10	64QAM	50	0	19.09	19.04	19.01			
10	256QAM	1	25	18.05	18.10	18.00	19	5	
10	256QAM	1	25	18.02	18.02	17.96			
10	256QAM	25	12	17.94	18.07	18.01	19	5	
10	256QAM	25	25	17.85	17.86	17.86			
10	256QAM	50	0	18.09	18.05	17.96			
Channel									
Frequency [MHz]									
5	QPSK	1	0	22.94	23.00	22.97			
5	QPSK	1	12	22.88	22.94	22.89	24	0	
5	QPSK	1	24	22.84	22.89	22.89			
5	QPSK	12	0	21.88	22.01	21.94	23	1	
5	QPSK	12	7	21.89	21.99	21.90			
5	QPSK	12	13	21.84	21.99	21.79			
5	16QAM	1	0	22.13	22.20	22.21			
5	16QAM	1	12	22.11	22.19	22.08	23	1	
5	16QAM	1	24	22.08	22.13	22.05			
5	16QAM	12	0	21.06	21.13	21.07			
5	16QAM	12	7	21.03	21.03	21.04	22	2	
5	16QAM	25	0	21.08	21.18	21.11			
5	64QAM	1	0	21.17	21.22	21.13			
5	64QAM	1	12	21.17	21.19	21.03	22	2	
5	64QAM	1	24	21.04	21.08	20.98			
5	64QAM	12	0	20.07	20.10	20.05	21	3	
5	64QAM	12	7	20.01	20.04	19.97			
5	64QAM	12	13	20.02	20.10	20.02			
5	64QAM	25	0	20.10	20.19	20.06			
5	256QAM	1	13	18.13	18.12	18.05	19	5	
5	256QAM	1	25	18.02	18.02	17.96			
5	256QAM	12	7	17.96	18.06	17.97	19	5	
5	256QAM	12	13	17.89	17.89	17.89			
5	256QAM	25	13	17.89	18.02	17.92	19	5	
5	256QAM	25	25	17.85	17.86	17.86			
5	256QAM	50	0	18.09	18.05	17.96			
Channel									
Frequency [MHz]									
3	QPSK	1	0	22.98	23.00	22.99			
3	QPSK	1	8	22.97	22.99	22.95	24	0	
3	QPSK	1	14	22.77	22.89	22.84			
3	QPSK	8	0	21.08	21.22	21.04	23	1	
3	QPSK	8	4	21.91	22.05	21.96			
3	QPSK	8	7	21.75	21.90	21.81			
3	QPSK	15	0	21.01	21.11	21.06			
3	16QAM	1	0	22.11	22.20	22.22			
3	16QAM	1	8	22.10	22.21	22.05	23	1	
3	16QAM	1	15	22.00	22.19	22.09			
3	16QAM	8	0	21.01	21.09	21.13			
3	16QAM	8	4	21.09	21.09	20.98	22	2	
3	16QAM	15	0	20.97	21.09	20.94			
3	16QAM	15	0	21.12	21.20	21.08			
3	16QAM	1	0	21.18	21.21	21.18	22	2	
3	64QAM	1	0	21.13	21.13	21.09			
3	64QAM	1	14	21.10	21.08	20.99			
3	64QAM	8	0	20.01	20.07	20.04	21	3	
3	64QAM	8	7	20.02	20.02	19.95			
3	64QAM	15	0	18.13	18.13	18.08	19	5	
3	256QAM	1	8	18.11	18.08	18.00			
3	256QAM	8	0	18.00	18.07	18.00	19	5	
3	256QAM	8	4	17.98	18.03	17.96			
3	256QAM	15	0	18.02	18.07	18.04			
3	256QAM	15	0	18.02	18.07	18.04			
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	22.83	22.97	22.93			
1.4	QPSK	1	3	22.97	22.94	22.90	24	0	
1.4	QPSK	1	5	22.79	22.86	22.89			
1.4	QPSK	3	0	22.89	22.98	22.91			
1.4	QPSK	3	1	22.92	22.99	22.86			
1.4	QPSK	3	3	22.77	22.86	22.86	23	1	
1.4	QPSK	6	0	22.91	22.98	22.90			
1.4	16QAM	1	0	21.91	22.00	21.92			
1.4	16QAM	1	3	21.75	21.81	21.76	23	1	
1.4	16QAM	1	5	22.01	22.03	22.01			
1.4	16QAM	3	0	22.15	22.21	22.11			
1.4	16QAM	3	3	22.05	22.21	22.05	23	1	
1.4	16QAM	6	0	22.15	22.27	22.25			
1.4	16QAM	6	3	22.08	22.22	22.08			
1.4	16QAM	3	0	22.08	22.15	22.11			
1.4	16QAM	6	0	21.00	21.03	20.97	22	2	
1.4	64QAM	1	0	21.03	21.12	21.05			
1.4	64QAM	1	20.94	20.99	21.00				
1.4	64QAM								

Band 12 Ant1 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.03	23.10	23.09	24	0						
10	QPSK	1	25	22.85	23.02	22.99								
10	QPSK	1	49	22.84	22.88	22.86								
10	QPSK	25	0	21.85	21.83	21.86	23	1						
10	QPSK	25	12	21.82	21.88	21.84								
10	QPSK	25	25	21.77	21.81	21.72								
10	QPSK	50	0	21.73	21.62	21.71	23	1						
10	16QAM	1	0	22.27	22.37	22.33								
10	16QAM	1	25	22.19	22.32	22.26								
10	16QAM	1	49	22.18	22.25	22.21	22	2						
10	16QAM	25	0	20.90	20.97	20.94								
10	16QAM	25	12	20.77	20.92	20.87								
10	16QAM	25	25	20.81	20.85	20.72	21	3						
10	16QAM	50	0	20.78	20.84	20.71								
10	16QAM	50	1	0	21.08	21.21	21.09							
10	16QAM	1	25	21.10	21.16	21.10	22	2						
10	16QAM	1	49	20.95	21.09	20.96								
10	16QAM	25	0	19.82	19.96	19.89								
10	16QAM	25	12	19.78	19.91	19.80	21	3						
10	16QAM	25	25	19.72	19.84	19.71								
10	16QAM	50	0	19.76	19.82	19.75								
10	256QAM	1	25	18.05	18.18	18.10	19	5						
10	256QAM	1	49	17.83	18.06	17.99								
10	256QAM	25	0	17.82	17.93	17.79								
10	256QAM	25	12	17.82	17.88	17.75	19	5						
10	256QAM	25	25	17.71	17.81	17.74								
10	256QAM	50	0	17.69	17.82	17.72								
Unit-to-unit offset														
Frequency (MHz)														
5	QPSK	1	0	22.59	22.59	22.56	24	0						
5	QPSK	1	12	22.86	22.89	22.82								
5	QPSK	1	24	22.81	22.88	22.81								
5	QPSK	12	0	21.70	21.84	21.76	23	1						
5	QPSK	12	7	21.77	21.78	21.72								
5	QPSK	12	13	21.69	21.67	21.69								
5	QPSK	25	0	21.63	21.71	21.76	23	1						
5	16QAM	1	0	22.13	22.32	22.29								
5	16QAM	1	12	22.04	22.22	22.14								
5	16QAM	1	24	22.08	22.22	22.19	22	2						
5	16QAM	12	0	20.77	20.88	20.72								
5	16QAM	12	7	20.63	20.82	20.78								
5	16QAM	12	13	20.69	20.76	20.66	23	2						
5	16QAM	25	0	21.01	21.15	21.04								
5	16QAM	1	0	20.58	20.71	20.69								
5	16QAM	1	12	20.82	21.02	20.87	21	3						
5	16QAM	12	0	19.77	19.90	19.81								
5	16QAM	12	7	19.64	19.75	19.74								
5	16QAM	12	13	19.58	19.73	19.62	19	5						
5	16QAM	25	0	19.64	19.75	19.64								
5	256QAM	1	0	18.11	18.07	18.01								
5	256QAM	1	12	17.98	18.10	18.04	19	5						
5	256QAM	1	24	17.80	18.05	17.87								
5	256QAM	12	0	17.86	17.92	17.86								
5	256QAM	12	7	17.68	17.79	17.61	19	5						
5	256QAM	12	13	17.68	17.67	17.61								
5	256QAM	25	0	17.62	17.77	17.68								
Unit-to-unit offset														
Frequency (MHz)														
3	QPSK	1	0	22.52	22.52	22.51	24	0						
3	QPSK	1	14	22.85	22.88	22.80								
3	QPSK	1	28	21.76	21.83	21.80								
3	QPSK	8	7	21.74	21.83	21.74	23	1						
3	QPSK	8	7	21.73	21.78	21.62								
3	QPSK	1	0	22.17	22.22	22.24								
3	16QAM	1	0	22.17	22.22	22.24	23	1						
3	16QAM	1	8	22.12	22.28	22.14								
3	16QAM	1	16	22.06	22.17	22.03								
3	16QAM	8	0	20.97	20.94	20.79	22	2						
3	16QAM	8	4	20.66	20.81	20.74								
3	16QAM	8	7	20.77	20.77	20.65								
3	16QAM	15	0	20.70	20.78	20.62	22	2						
3	16QAM	1	0	20.96	21.14	21.03								
3	16QAM	1	8	21.02	21.05	21.01								
3	16QAM	1	14	20.83	20.98	20.89	21	3						
3	16QAM	8	0	19.70	19.88	19.76								
3	16QAM	8	4	19.73	19.82	19.86								
3	16QAM	8	7	19.63	19.80	19.66	19	5						
3	16QAM	15	0	19.65	19.74	19.70								
3	256QAM	1	0	18.12	18.10	18.05								
3	256QAM	1	8	17.99	18.10	18.07	19	5						
3	256QAM	1	14	17.86	17.99	17.92								
3	256QAM	8	0	17.71	17.80	17.66								
3	256QAM	8	4	17.88	17.78	17.89	19	5						
3	256QAM	8	7	17.68	17.75	17.65								
3	256QAM	15	0	17.66	17.71	17.59								
Unit-to-unit offset														
Frequency (MHz)														
1.4	QPSK	1	0	22.52	22.52	22.51	24	0						
1.4	QPSK	1	3	22.84	22.88	22.76								
1.4	QPSK	1	5	22.80	22.86	22.74								
1.4	QPSK	3	0	22.87	23.02	22.98	23	1						
1.4	QPSK	3	1	22.80	22.97	22.89								
1.4	QPSK	3	3	22.85	22.85	22.78								
1.4	QPSK	6	0	21.70	21.89	21.78	23	1						
1.4	16QAM	1	0	21.78	21.73	21.69								
1.4	16QAM	1	3	21.72	21.71	21.69								
1.4	16QAM	1	6	21.60	21.75	21.67	23	1						
1.4	16QAM	3	0	22.13	22.32	22.23								
1.4	16QAM	3	1	22.16	22.28	22.17								
1.4	16QAM	12	3	22.12	22.12	22.08	22	2						
1.4	16QAM	6	0	20.77	20.84	20.71								
1.4	16QAM	1	0	20.67	20.81	20.72								
1.4	16QAM	1	3	20.68	20.77	20.61	22	2						
1.4	16QAM	1	5	20.66	20.70	20.65								
1.4	16QAM	1	9	20.97	21.09	20.97								
1.4	16QAM	3	0	20.99	21.09	20.97	21	3						
1.4	16QAM	3	3	20.85	20.94	20.84								
1.4	16QAM	6	0	19.64	19.75	19.64								
1.4	256QAM	1	0	18.09	18.14	18.04	21	3						
1.4	256QAM	1	3	17.84	18.00	17.96								
1.4	256QAM	1	9	17.83	17.96	17.89								
1.4	256QAM	3	0	17.85	17.78	17.71	19	5						
1.4	256QAM	3	1	17.76	17.79	17.61								
1.4	256QAM	6	0	17.67	17.78	17.63								
1.4	256QAM	6	0	17.65	17.71	17.58	19	5						

Band 25 Ant1 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	23.03	23.13	23.07			24	0				
20	QPSK	1	49	22.98	23.04	22.98								
20	QPSK	1	99	22.86	23.01	22.91								
20	QPSK	50	0	22.16	22.22	22.20								
20	QPSK	50	24	22.10	22.17	22.10			23	1				
20	QPSK	50	50	22.04	22.10	21.99								
20	QPSK	100	0	22.15	22.25	22.18								
20	HQAM	50	0	22.30	22.43	22.32								
20	HQAM	1	49	22.28	22.38	22.29			23	1				
20	HQAM	1	99	22.27	22.31	22.21								
20	HQAM	50	0	21.07	21.18	21.11								
20	HQAM	50	24	21.04	21.13	21.10								
20	HQAM	50	50	20.94	21.06	20.96			22	2				
20	HQAM	100	0	21.03	21.16	21.06								
20	HQAM	1	0	21.21	21.28	21.20								
20	HQAM	1	49	21.18	21.23	21.16								
20	HQAM	50	0	20.10	20.15	20.09			21	3				
20	HQAM	50	24	19.99	20.10	20.04								
20	HQAM	50	50	19.95	20.03	19.99								
20	HQAM	100	0	20.12	20.21	20.09								
20	SSQAM	1	49	18.09	18.23	18.20			19	5				
20	SSQAM	1	99	18.04	18.15	18.11								
20	SSQAM	1	99	18.00	18.11	17.99								
20	SSQAM	50	24	17.97	18.07	17.98								
20	SSQAM	50	50	17.93	18.00	17.93			19	5				
20	SSQAM	100	0	18.00	18.10	17.99								
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.83	23.00	23.01			24	0				
15	QPSK	1	37	22.86	22.94	22.87								
15	QPSK	1	74	22.76	22.89	22.76								
15	QPSK	36	0	22.03	22.14	22.06								
15	QPSK	36	20	21.08	21.08	21.04			23	1				
15	QPSK	36	36	22.01	21.99	21.93								
15	QPSK	75	0	22.06	22.11	22.12								
15	HQAM	1	49	22.16	22.36	22.32								
15	HQAM	1	37	22.18	22.24	22.21			23	1				
15	HQAM	1	74	22.16	22.22	22.19								
15	HQAM	36	0	21.00	21.14	21.02								
15	HQAM	36	20	21.00	21.08	21.07								
15	HQAM	36	36	20.94	21.07	20.98			22	2				
15	HQAM	75	0	20.95	21.08	20.94								
15	HQAM	1	0	21.11	21.23	21.11								
15	HQAM	1	37	21.11	21.16	21.08								
15	HQAM	1	74	20.93	21.05	20.95			21	3				
15	HQAM	36	0	19.98	20.03	20.03								
15	HQAM	36	20	19.97	20.06	19.97								
15	HQAM	36	36	19.95	19.90	19.93								
15	HQAM	75	0	20.06	20.08	19.94			19	5				
15	HQAM	1	49	18.05	18.08	17.92								
15	SSQAM	1	37	17.91	18.05	18.00								
15	SSQAM	1	74	17.95	18.07	17.93								
15	SSQAM	36	0	17.87	17.98	17.88			19	5				
15	SSQAM	36	20	17.85	17.96	17.90								
15	SSQAM	36	36	17.85	17.82	17.84								
15	SSQAM	75	0	18.00	18.00	17.99								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.88	23.01	22.89			24	0				
10	QPSK	1	25	22.87	23.01	22.81								
10	QPSK	1	49	22.72	22.96	22.78								
10	QPSK	25	0	22.03	22.17	22.04								
10	QPSK	25	12	21.97	22.11	22.04			23	1				
10	QPSK	25	25	21.93	22.02	21.90								
10	QPSK	50	0	22.07	22.16	22.07								
10	HQAM	1	0	22.19	22.40	22.25								
10	HQAM	1	25	22.13	22.27	22.20			23	1				
10	HQAM	1	49	22.16	22.27	22.18								
10	HQAM	25	0	20.99	21.06	21.06								
10	HQAM	25	12	20.98	21.03	21.00								
10	HQAM	50	0	20.94	21.07	20.98			22	2				
10	HQAM	50	0	20.88	21.09	20.94								
10	HQAM	1	0	21.17	21.22	21.12								
10	HQAM	1	25	21.08	21.12	21.08								
10	HQAM	1	49	20.98	21.06	20.92			21	3				
10	HQAM	25	0	19.98	20.02	19.95								
10	HQAM	25	12	19.93	20.00	19.97								
10	HQAM	25	25	19.83	19.90	19.87								
10	HQAM	50	0	20.01	20.16	20.04			19	5				
10	SSQAM	1	0	18.03	18.13	18.00								
10	SSQAM	1	25	17.98	18.10	18.02								
10	SSQAM	1	49	17.87	18.04	17.86								
10	SSQAM	25	0	17.82	17.98	17.83			19	5				
10	SSQAM	25	12	17.93	18.00	17.88								
10	SSQAM	25	25	17.87	17.94	17.86								
10	SSQAM	50	0	17.87	18.04	17.98								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.83	23.04	23.03			24	0				
5	QPSK	1	12	22.88	23.00	22.89								
5	QPSK	1	24	22.78	22.85	22.85								
5	QPSK	12	0	22.05	22.08	22.06								
5	QPSK	12	7	22.07	22.14	21.95			23	1				
5	QPSK	12	13	21.80	21.88	21.86								
5	QPSK	25	0	22.00	22.14	22.04								
5	HQAM	1	0	22.24	22.35	22.19								
5	HQAM	1	12	22.18	22.31	22.14			23	1				
5	HQAM	1	24	22.16	22.25	22.03								
5	HQAM	12	0	20.89	21.07	21.01								
5	HQAM	12	7	20.98	21.04	21.03								
5	HQAM	12	13	20.84	20.96	20.84			22	2				
5	HQAM	25	0	20.89	21.10	21.00								
5	HQAM	1	0	21.17	21.15	21.09								
5	HQAM	1	12	21.15	21.11	21.11								
5	HQAM	1	24	20.97	21.11	20.95			21	3				
5	HQAM	12	0	20.05	20.02	19.94								
5	HQAM	12	7	19.93	20.00	19.94								
5	HQAM	12	13	19.84	19.96	19.81								
5	HQAM	25	0	20.08	20.12	19.96			19	5				
5	HQAM	1	0	18.05	18.17	18.09								
5	SSQAM	1	12	17.95	18.06	17.99								
5	SSQAM	1	24	17.94	18.03	17.87								
5	SSQAM	12	0	17.85	17.88	17.86			19	5				
5	SSQAM	12	13	17.86	17.89	17.86								
5	SSQAM	25	0	17.89	18.01	17.86								
5	SSQAM	25	0	17.87	18.03	17.86								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.18	22.61	22.50			24	0				
3	QPSK	1	14	22.22	22.64	22.54								
3	QPSK	8	0	22.12	22.13	22.13								
3	QPSK	8	7	22.01	22.02	22.01								
3	QPSK	15	0	22.08	22.21	22.03			23	1				
3	QPSK	15	7	22.03	22.08	22.03								
3	QPSK	1	8	22.23	22.28	22.16								
3	QPSK	1	14	22.20	22.28	22.14								
3	QPSK	1	14	22.05	22.05	22.04			22	2				
3	HQAM	8	4	20.95	21.03	21.02								
3	HQAM	8	7	20.89	20.96	20.93								
3	HQAM	8	14	21.00	21.10	20.97								
3	HQAM	1	0	21.14	21.16	21.16			22	2				
3	HQAM	8	8	21.12	21.16	21.07								
3	HQAM	8	14	21.07	21.12	21.08								
3	HQAM	8	8	19.95	20.09	20.04								
3	HQAM	15	0	19.96	19.99	19.99			21	3				
3	HQAM	15	7	19.92	19.94	19.94								
3	HQAM	1	0	19.99	20.09	20.04								
3	HQAM	1	0	19.96	20.06	19.97								
3	HQAM	1	0	17.93	18.07	18.01			19	5				
3	SSQAM	1	14	17.87	18.08	17.82								
3	SSQAM	1	14	17.87	18.04	17.82								
3	SSQAM	8	7	17.83	17.88	17.84								
3	SSQAM	8	7	17.83	17.86	17.84			19	5				
3	SSQAM	8	7	17.83	17.86	17.84								
3	SSQAM	8	7	17.83	17.86	17.84								
3	SSQAM	8	7	17.83	17.86	17.84								
Channel														
Frequency (MHz)														
14	QPSK	1	0	22.86	22.99	22.93			24	0				
14	QPSK	1	3	22.89	22.98	22.88								
14	QPSK	1	5	22.74	22.91	22.79								
14	QPSK	1	10	22.66	22.87	22.66								
14	QPSK	3	0	22.92	23.00	22.95			23	1				
14	QPSK	3	3	22.74	22.83	22.87								
14	QPSK	1	0	21.96	22.10	22.02								
14	HQAM	1	0	22.20	22.33	22.23								
14	HQAM	3	0	22.23	22.32	22.23			23	1				
14	HQAM	3	3	22.11	22.20	22.11								
14	HQAM	1	0	20.93	21.08	20.96								
14	HQAM	1	0	20.90	21.08	21.05								
14	HQAM	3	0	20.95	21.03	21.05			22	2				
14	HQAM	1	0	20.93	21.02	21.04								
14	HQAM	3	0	21.12	21.14	21.11								
14	HQAM	3	3	20.95	21.04	21.01								
14	HQAM	3	0	20.04	20.15	19.99			21	3				
14	HQAM	3	3	18.11	18.18	18.04								
14	SSQAM	1	3	17.95	18.06	17.96								
14	SSQAM	1	3	17.91	17.99	17.95								
14	SSQAM	3	0	17.87	17.89	17.84			19	5				
14	SSQAM	3	3	17.88	17.94									

Band 66 Ant1 Default														
BR [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 150072	Power Mid Ch./Freq. 150122	Power High Ch./Freq. 150152	Turn-up Int. (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	23.07	23.09	23.02	24	0	23	1				
20	QPSK	1	49	22.34	22.34	22.33								
20	QPSK	1	99	22.83	22.87	22.82								
20	QPSK	50	0	22.10	22.12	22.07								
20	QPSK	50	24	21.93	22.07	22.02	23	1	23	1				
20	QPSK	50	50	21.89	22.00	21.96								
20	QPSK	100	0	22.06	22.13	22.11								
20	16QAM	1	0	22.00	22.10	22.04								
20	16QAM	1	49	21.97	22.05	21.94	23	1	23	1				
20	16QAM	1	99	21.94	21.98	21.86								
20	16QAM	50	0	21.92	21.97	20.98								
20	16QAM	50	24	20.95	21.02	20.91								
20	16QAM	50	50	20.83	20.95	20.87	22	2	22	2				
20	16QAM	100	0	20.93	20.98	20.88								
20	16QAM	1	0	21.20	21.24	21.19								
20	16QAM	1	49	21.05	21.19	21.01								
20	16QAM	1	99	21.02	21.15	20.99	21	3	21	3				
20	16QAM	50	0	19.98	20.12	20.08								
20	16QAM	50	24	19.95	20.07	20.01								
20	16QAM	50	50	19.90	19.95	19.83								
20	256QAM	1	0	17.97	17.99	17.98	19	5	19	5				
20	256QAM	1	49	17.92	17.97	17.82								
20	256QAM	1	99	17.92	17.97	17.82								
20	256QAM	50	0	17.86	17.89	17.83								
20	256QAM	50	24	17.87	17.89	17.85	19	5	19	5				
20	256QAM	50	50	17.80	17.84	17.88								
20	256QAM	100	0	17.84	17.86	17.87								
20	256QAM	100	0	17.84	17.86	17.87								
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.34	22.30	22.88	24	0	24	0				
15	QPSK	1	74	22.88	22.94	22.82								
15	QPSK	1	74	22.75	22.84	22.82								
15	QPSK	36	0	21.96	22.04	21.93								
15	QPSK	36	20	21.89	22.02	21.82	23	1	23	1				
15	QPSK	36	36	21.75	21.86	21.68								
15	16QAM	75	0	21.93	22.01	21.84								
15	16QAM	1	0	21.95	22.03	21.84								
15	16QAM	1	37	21.88	21.92	21.79	23	1	23	1				
15	16QAM	1	74	21.87	21.89	21.78								
15	16QAM	36	0	20.92	20.96	20.89								
15	16QAM	36	20	20.83	20.83	20.80								
15	16QAM	36	36	20.76	20.82	20.75	22	2	22	2				
15	16QAM	75	0	20.87	20.87	20.76								
15	16QAM	1	0	21.10	21.13	21.09								
15	16QAM	1	37	21.02	21.04	20.99								
15	16QAM	1	74	20.91	20.90	20.85	21	3	21	3				
15	16QAM	36	0	19.98	19.98	19.87								
15	16QAM	36	20	19.91	19.96	19.85								
15	16QAM	36	36	19.81	19.85	19.80								
15	16QAM	75	0	19.83	19.80	19.71	19	5	19	5				
15	256QAM	1	0	17.87	17.86	17.85								
15	256QAM	1	37	17.88	17.94	17.89								
15	256QAM	1	74	17.83	17.80	17.77								
15	256QAM	36	0	17.87	17.84	17.84	19	5	19	5				
15	256QAM	36	20	17.91	17.91	17.85								
15	256QAM	36	39	17.72	17.88	17.84								
15	256QAM	75	0	17.77	17.88	17.75								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.81	22.86	22.48	24	0	24	0				
10	QPSK	1	25	22.89	22.91	22.86								
10	QPSK	1	49	22.74	22.82	22.82								
10	QPSK	25	0	22.06	22.07	22.06								
10	QPSK	25	12	21.90	22.01	21.89	23	1	23	1				
10	QPSK	25	25	21.81	21.87	21.83								
10	QPSK	25	37	22.01	22.02	21.99								
10	16QAM	1	0	21.85	21.96	21.93								
10	16QAM	1	25	21.82	22.01	21.83	23	1	23	1				
10	16QAM	1	49	21.81	21.83	21.73								
10	16QAM	25	0	20.99	20.97	20.88								
10	16QAM	25	12	20.91	20.98	20.78								
10	16QAM	25	25	20.80	20.90	20.78	22	2	22	2				
10	16QAM	50	0	20.90	20.91	20.72								
10	16QAM	1	0	21.12	21.15	21.04								
10	16QAM	1	25	21.01	21.10	20.93								
10	16QAM	1	49	20.90	21.02	20.85	21	3	21	3				
10	16QAM	25	0	19.85	20.05	20.03								
10	16QAM	25	12	19.82	20.01	19.81								
10	16QAM	25	25	19.78	19.88	19.83								
10	16QAM	50	0	19.85	19.90	19.72	19	5	19	5				
10	256QAM	1	0	17.83	17.84	17.85								
10	256QAM	1	25	17.78	17.82	17.79								
10	256QAM	1	49	17.81	17.81	17.75								
10	256QAM	25	0	17.81	17.85	17.84	19	5	19	5				
10	256QAM	25	12	17.84	17.85	17.83								
10	256QAM	25	25	17.86	17.88	17.75								
10	256QAM	50	0	17.77	17.82	17.73								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.14	22.16	22.48	24	0	24	0				
5	QPSK	1	12	22.84	22.95	22.89								
5	QPSK	1	24	22.75	22.83	22.82								
5	QPSK	12	0	21.98	22.08	21.91								
5	QPSK	12	7	21.90	22.02	21.92	23	1	23	1				
5	QPSK	12	13	21.78	21.82	21.81								
5	QPSK	25	0	21.95	22.08	22.07								
5	16QAM	1	0	21.87	22.05	21.98								
5	16QAM	1	12	21.87	22.00	21.84	23	1	23	1				
5	16QAM	1	24	21.85	21.98	21.73								
5	16QAM	12	0	20.96	21.01	20.88								
5	16QAM	12	7	20.90	20.92	20.81								
5	16QAM	12	13	20.80	20.91	20.74	22	2	22	2				
5	16QAM	25	0	20.85	20.93	20.76								
5	16QAM	1	0	21.13	21.20	21.13								
5	16QAM	1	12	20.97	21.15	21.04								
5	16QAM	1	24	20.88	20.97	20.84	21	3	21	3				
5	16QAM	12	0	19.94	20.04	20.02								
5	16QAM	12	7	19.98	20.01	19.91								
5	16QAM	12	13	19.86	19.94	19.88								
5	16QAM	25	0	19.94	19.82	19.77	19	5	19	5				
5	256QAM	1	0	17.83	17.88	17.87								
5	256QAM	1	12	17.82	17.85	17.80								
5	256QAM	1	24	17.82	17.86	17.80								
5	256QAM	12	0	17.88	17.89	17.79	19	5	19	5				
5	256QAM	12	7	17.86	17.87	17.82								
5	256QAM	12	13	17.78	17.86	17.77								
5	256QAM	25	0	17.78	17.81	17.77								
5	256QAM	25	0	17.78	17.81	17.77								
5	256QAM	25	0	17.78	17.81	17.77								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.05	22.05	22.89	24	0	24	0				
3	QPSK	1	12	22.84	22.96	22.82								
3	QPSK	1	14	22.75	22.86	22.82								
3	QPSK	8	0	22.04	22.08	21.98								
3	QPSK	8	7	21.96	22.06	21.92	23	1	23	1				
3	QPSK	8	7	21.75	21.88	21.82								
3	QPSK	16	0	21.95	22.04	21.96								
3	QPSK	16	7	21.87	21.96	21.88								
3	16QAM	1	0	21.93	22.01	21.83	23	1	23	1				
3	16QAM	1	14	21.86	21.83	21.71								
3	16QAM	8	0	20.88	20.98	20.81								
3	16QAM	8	7	20.69	20.83	20.78								
3	16QAM	8	7	20.68	20.83	20.78	22	2	22	2				
3	16QAM	16	0	20.84	20.94	20.81								
3	16QAM	1	0	21.10	21.18	21.04								
3	16QAM	1	8	20.92	21.06	21.03								
3	16QAM	1	14	20.84	21.04	20.84	21	3	21	3				
3	16QAM	8	0	19.88	20.08	20.08								
3	16QAM	8	7	19.84	19.96	19.78								
3	16QAM	16	0	19.84	19.96	19.88								
3	16QAM	16	7	19.84	19.92	19.87	19	5	19	5				
3	256QAM	1	0	17.83	17.88	17.87								
3	256QAM	1	14	17.82	17.85	17.80								
3	256QAM	1	14	17.86	17.88	17.77								
3	256QAM	8	0	17.87	17.87	17.82	19	5	19	5				
3	256QAM	8	7	17.85	17.87	17.83								
3	256QAM	16	0	17.79	17.86	17.80								
3	256QAM	1	0	17.83	17.81	17.78								
3	256QAM	1	14	17.87	17.88	17.82								
3	256QAM	1	14	17.87	17.88	17.82								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.02	22.04	22.87	24	0	24	0				
1.4	QPSK	1	12	22.83	22.95	22.82								
1.4	QPSK	1	14	22.74	22.85	22.82								
1.4	QPSK	8	0	22.06	22.08	21.98								
1.4	QPSK	8	7	21.98	22.08	21.92	23	1	23	1				
1.4	QPSK	8	7	21.75	21.88	21.82								
1.4	QPSK	16	0	21.95	22.04	21.96								
1.4	QPSK	16	7	21.87	21.96	21.88								
1.4	16QAM	1	0	21.93	22.01	21.83	23	1	23	1				
1.4	16QAM	1	14	21.86	21.83	21.71								
1.4	16QAM	8	0	20.88	20.98	20.81								
1.4	16QAM	8	7	20.69	20.83	20.78								
1.4	16QAM	8	7	20.68	20.83	20.78	22	2	22	2				
1.4	16QAM	16	0	20.84	20.94	20.81								
1.4	16QAM	1	0	21.10	21.18	21.04								
1.4	16QAM	1	8	20.92	21.06	21.03								
1.4	16QAM	1	14	20.84	21.04	20.84	21	3	21	3				
1.4	16QAM	8	0	19.88	20.08	20.08								
1.4	16QAM	8	7	19.84	19.96	19.78								
1.4	16QAM	16	0	19.84	19.96	19.88								
1.4	16QAM	16	7	19.84	19.92	19.87	19	5	19	5				
1.4	256QAM	1	0	17.83	17.88	17.87								
1.4	256QAM	1	14	17.82	17.85	17.80								
1.4	256QAM	1	14	17.86										



Band 38 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.15	23.15	23.15			
20	QPSK	1	49	23.13	23.15	23.10	24	0	
20	QPSK	1	99	23.11	23.11	23.05			
20	QPSK	50	0	22.09	22.07	22.06			
20	QPSK	50	24	21.98	22.07	22.06			
20	QPSK	50	50	21.87	22.08	21.81	23	1	
20	16QAM	100	0	21.76	21.75	21.66			
20	16QAM	1	1	22.04	22.09	22.05			
20	16QAM	1	49	21.98	22.04	21.85	23	1	
20	16QAM	1	99	21.95	21.97	21.85			
20	16QAM	50	0	21.04	21.08	20.96			
20	16QAM	50	24	20.92	21.03	20.95			
20	16QAM	50	50	20.82	20.99	20.86	22	2	
20	16QAM	100	0	20.76	20.74	20.65			
20	64QAM	1	0	20.80	20.87	20.54			
20	64QAM	1	99	20.81	20.85	20.47	22	2	
20	64QAM	50	0	20.02	20.12	20.07			
20	64QAM	50	24	20.02	20.07	19.84			
20	64QAM	50	50	19.90	20.05	19.82	21	3	
20	64QAM	100	0	20.05	20.14	20.00			
20	256QAM	1	0	17.78	17.89	17.81			
20	256QAM	1	49	17.72	17.84	17.65	19	5	
20	256QAM	1	99	17.64	17.77	17.68			
20	256QAM	50	0	16.00	16.12	16.06			
20	256QAM	50	24	15.93	16.02	15.85			
20	256QAM	50	50	15.78	16.00	15.87	19	5	
20	256QAM	100	0	15.84	16.03	15.95			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.05	23.05	23.13			
15	QPSK	1	37	23.08	23.12	23.06	24	0	
15	QPSK	1	74	22.97	23.07	22.98			
15	QPSK	36	0	22.01	22.05	21.94			
15	QPSK	36	20	21.89	21.98	21.83	23	1	
15	QPSK	36	39	21.78	21.87	21.78			
15	16QAM	75	0	22.07	22.14	22.12			
15	16QAM	1	0	21.96	21.95	21.82			
15	16QAM	1	37	21.94	21.91	21.86	23	1	
15	16QAM	1	74	21.90	21.92	21.79			
15	16QAM	36	0	20.92	20.93	20.84			
15	16QAM	36	20	20.85	20.97	20.93	22	2	
15	16QAM	36	39	20.86	20.92	20.75			
15	16QAM	75	0	20.90	21.01	20.95			
15	64QAM	1	0	20.50	20.54	20.50			
15	64QAM	1	37	20.40	20.55	20.48	22	2	
15	64QAM	1	74	20.42	20.48	20.35			
15	64QAM	36	0	19.95	20.04	19.97			
15	64QAM	36	20	19.96	20.04	19.88	21	3	
15	64QAM	36	39	19.78	19.87	19.75			
15	64QAM	75	0	20.00	20.03	19.93			
15	256QAM	1	0	17.54	17.77	17.75	19	5	
15	256QAM	1	74	17.51	17.72	17.64			
15	256QAM	36	0	17.06	17.08	17.06			
15	256QAM	36	20	17.07	17.07	17.07	19	5	
15	256QAM	36	39	17.07	17.01	17.03			
15	256QAM	75	0	17.14	17.25	17.29			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.15	23.15	23.15			
10	QPSK	1	25	23.14	23.15	23.10	24	0	
10	QPSK	1	49	22.94	23.01	22.94			
10	QPSK	25	0	22.05	22.08	22.06			
10	QPSK	25	12	21.93	21.97	21.87	23	1	
10	QPSK	25	25	21.86	21.92	21.78			
10	QPSK	50	0	22.04	22.07	22.11			
10	16QAM	1	0	21.98	21.94	21.82			
10	16QAM	1	25	21.91	21.95	21.82	23	1	
10	16QAM	1	49	21.86	21.87	21.82			
10	16QAM	25	0	20.92	20.95	20.92			
10	16QAM	25	12	20.81	20.90	20.84	22	2	
10	16QAM	25	25	20.78	20.84	20.82			
10	16QAM	50	0	20.89	21.04	20.96			
10	16QAM	1	49	20.49	20.68	20.46	22	2	
10	64QAM	1	0	20.41	20.49	20.47			
10	64QAM	1	49	20.43	20.47	20.41			
10	64QAM	25	0	19.89	20.03	19.88			
10	64QAM	25	12	19.89	19.95	19.84	21	3	
10	64QAM	25	25	19.85	19.85	19.82			
10	64QAM	50	0	20.04	20.03	19.86			
10	256QAM	1	0	17.67	17.75	17.76			
10	256QAM	1	25	17.62	17.75	17.67	19	5	
10	256QAM	1	49	17.54	17.69	17.63			
10	256QAM	25	0	17.86	17.86	17.81			
10	256QAM	25	12	17.89	17.81	17.91	19	5	
10	256QAM	25	25	17.83	17.80	17.87			
10	256QAM	50	0	17.54	17.65	17.59			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.04	23.03	23.11			
5	QPSK	1	12	23.00	23.01	23.00	24	0	
5	QPSK	1	24	22.89	23.04	22.92			
5	QPSK	12	0	22.02	22.01	21.95			
5	QPSK	12	7	21.91	21.94	21.88	23	1	
5	QPSK	12	13	21.77	21.88	21.82			
5	QPSK	25	0	22.05	22.09	22.12			
5	16QAM	1	0	21.96	21.95	21.91			
5	16QAM	1	12	21.87	21.97	21.92	23	1	
5	16QAM	1	24	21.82	21.84	21.75			
5	16QAM	12	0	20.98	21.04	20.91			
5	16QAM	12	7	20.86	20.97	20.87	22	2	
5	16QAM	12	13	20.80	20.83	20.76			
5	16QAM	25	0	20.92	21.09	20.93			
5	16QAM	25	1	20.85	20.91	20.84	22	2	
5	16QAM	25	12	20.45	20.51	20.38	22	2	
5	64QAM	1	24	20.41	20.45	20.43			
5	64QAM	12	0	19.98	20.00	20.00			
5	64QAM	12	7	19.87	19.97	19.84	21	3	
5	64QAM	12	13	19.81	19.86	19.78			
5	64QAM	25	0	19.95	20.10	19.78			
5	256QAM	1	0	17.69	17.75	17.76			
5	256QAM	1	12	17.66	17.81	17.66	19	5	
5	256QAM	1	24	17.58	17.71	17.54			
5	256QAM	12	0	17.94	18.02	18.00			
5	256QAM	12	7	17.81	17.85	17.86	19	5	
5	256QAM	12	13	17.85	17.82	17.80			
5	256QAM	25	0	17.56	17.64	17.65			

Band 41 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.72	22.83	22.89			
20	QPSK	1	49	22.73	22.82	22.74	24	0	
20	QPSK	1	99	22.74	22.82	22.73			
20	QPSK	50	0	21.73	21.84	22.04			
20	QPSK	50	24	21.68	21.80	21.82			
20	QPSK	50	50	21.75	21.72	21.85	23	1	
20	16QAM	100	0	21.66	21.65	21.61			
20	16QAM	1	1	21.74	21.78	21.82	23	1	
20	16QAM	1	49	21.67	21.67	21.64	23	1	
20	16QAM	1	99	21.65	21.64	21.55			
20	16QAM	50	0	20.84	20.79	20.77			
20	16QAM	50	24	20.83	20.70	20.82			
20	16QAM	50	50	20.66	20.69	20.80	22	2	
20	16QAM	100	0	20.60	20.61	20.62			
20	64QAM	1	0	20.57	20.75	20.83			
20	64QAM	1	99	20.59	20.59	20.52	22	2	
20	64QAM	50	0	19.84	19.74	19.85			
20	64QAM	50	24	19.89	19.65	19.75			
20	64QAM	50	50	19.53	19.68	19.70	21	3	
20	64QAM	100	0	19.60	19.70	19.68			
20	256QAM	1	0	17.68	17.70	17.80			
20	256QAM	1	99	17.61	17.70	17.74	19	5	
20	256QAM	50	0	17.69	17.61	17.69			
20	256QAM	50	24	17.62	17.57	17.65			
20	256QAM	50	50	17.52	17.49	17.59	17	5	
20	256QAM	100	0	17.54	17.62	17.74			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.85	22.88	23.04			
15	QPSK	1	37	22.74	22.87	22.99	24	0	
15	QPSK	1	74	22.77	22.77	22.76			
15	QPSK	36	0	21.80	21.79	21.84			
15	QPSK	36	20	21.87	21.69	21.93	23	1	



Band 41 Ant2 Default																
RF [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Lvl [MHz] Ch / Freq	Power Lvl [MHz] Ch / Freq	Power Lvl [MHz] Ch / Freq	Power Lvl [MHz] Ch / Freq	Turn-up limit (dBm)	MPR (dB)						
Channel																
Frequency (MHz)																
20	QPSK	1	0	22.43	22.57	22.65	22.69	22.76	24	0						
20	QPSK	1	49	22.65	22.64	22.73	22.86	22.62								
20	QPSK	50	0	21.58	21.67	21.97	21.78	21.74	23	1						
20	QPSK	50	24	21.78	21.79	21.87	21.81	21.72								
20	QPSK	50	49	21.62	21.72	21.80	21.76	21.77	23	1						
20	QPSK	100	0	21.62	21.61	21.61	21.72	21.68								
20	100GSM	1	0	21.63	21.81	21.92	21.78	21.81	23	1						
20	100GSM	1	49	21.79	21.82	21.86	21.76	21.77								
20	100GSM	50	0	20.85	20.89	20.97	20.91	20.96	22	2						
20	100GSM	50	24	20.85	20.72	20.83	20.77	20.78								
20	100GSM	50	50	20.66	20.69	20.77	20.69	20.63	22	2						
20	100GSM	100	0	20.67	20.69	20.86	20.67	20.63								
20	100GSM	100	0	20.53	20.54	20.56	20.53	20.55	22	2						
20	100GSM	1	49	20.54	20.48	20.58	20.50	20.53								
20	100GSM	1	99	20.32	20.44	20.51	20.36	20.45	21	3						
20	100GSM	50	0	19.87	19.90	20.01	19.86	19.92								
20	100GSM	50	24	19.77	19.75	19.88	19.73	19.75	21	3						
20	100GSM	50	50	19.83	19.88	19.94	19.85	19.79								
20	100GSM	100	0	19.89	19.91	19.95	19.88	19.84	19	5						
20	250GSM	1	0	17.74	17.74	17.82	17.74	17.72								
20	250GSM	1	49	17.82	17.59	17.73	17.82	17.59	19	5						
20	250GSM	1	99	17.58	17.60	17.69	17.60	17.63								
20	250GSM	50	0	17.61	17.66	17.82	17.66	17.76	19	5						
20	250GSM	50	24	17.89	17.82	17.96	17.87	17.84								
20	250GSM	50	50	17.78	17.71	17.89	17.80	17.78	19	5						
20	250GSM	100	0	17.83	17.81	17.89	17.85	17.85								
Channel																
Frequency (MHz)																
15	QPSK	1	0	22.52	22.43	22.74	22.63	22.64	24	0						
15	QPSK	1	37	22.69	22.58	22.67	22.61	22.56								
15	QPSK	1	74	22.46	22.53	22.59	22.58	22.62	23	1						
15	QPSK	36	0	21.44	21.58	21.83	21.72	21.69								
15	QPSK	36	20	21.69	21.70	21.73	21.70	21.64	23	1						
15	QPSK	36	49	21.51	21.61	21.66	21.57	21.58								
15	100GSM	1	0	21.68	21.67	21.81	21.72	21.67	23	1						
15	100GSM	1	37	21.69	21.70	21.86	21.64	21.68								
15	100GSM	1	74	21.63	21.63	21.73	21.63	21.64	22	2						
15	100GSM	36	0	20.74	20.81	20.84	20.85	20.84								
15	100GSM	36	20	20.69	20.64	20.86	20.69	20.62	22	2						
15	100GSM	36	39	20.59	20.61	20.71	20.54	20.54								
15	100GSM	75	0	20.77	20.84	20.86	20.73	20.69	22	2						
15	100GSM	75	0	20.55	20.43	20.61	20.48	20.55								
15	100GSM	1	37	20.48	20.43	20.50	20.41	20.39	22	2						
15	100GSM	1	74	20.31	20.39	20.39	20.37	20.36								
15	100GSM	36	0	19.75	19.78	19.87	19.72	19.77	21	3						
15	100GSM	36	20	19.72	19.69	19.79	19.62	19.62								
15	100GSM	36	39	19.69	19.70	19.81	19.64	19.69	21	3						
15	100GSM	75	0	19.73	19.82	19.90	19.83	19.75								
15	250GSM	1	0	17.86	17.89	17.79	17.82	17.83	19	5						
15	250GSM	1	37	17.48	17.50	17.61	17.50	17.50								
15	250GSM	1	74	17.52	17.47	17.56	17.50	17.60	19	5						
15	250GSM	36	0	17.86	17.85	17.96	17.89	17.84								
15	250GSM	36	20	17.84	17.88	17.88	17.82	17.79	22	2						
15	250GSM	36	39	17.68	17.74	17.85	17.68	17.72								
15	250GSM	75	0	17.79	17.82	17.90	17.81	17.84	19	5						
Channel																
Frequency (MHz)																
10	QPSK	1	0	22.20	22.40	22.49	22.39	22.39			24	0				
10	QPSK	1	25	22.52	22.50	22.59	22.60	22.61								
10	QPSK	1	49	22.54	22.48	22.63	22.54	22.53	23	1						
10	QPSK	25	0	21.46	21.57	21.81	21.72	21.64								
10	QPSK	25	12	21.68	21.65	21.81	21.66	21.58	23	1						
10	QPSK	25	25	21.56	21.63	21.76	21.72	21.60								
10	100GSM	1	0	21.42	21.57	21.79	21.70	21.67	23	1						
10	100GSM	1	25	21.70	21.75	21.79	21.72	21.62								
10	100GSM	1	49	21.66	21.62	21.69	21.64	21.67	23	1						
10	100GSM	1	74	21.70	21.75	21.79	21.70	21.67								
10	100GSM	25	0	20.78	20.81	20.92	20.78	20.76	22	2						
10	100GSM	25	12	20.73	20.80	20.75	20.73	20.69								
10	100GSM	25	25	20.54	20.54	20.71	20.62	20.56	22	2						
10	100GSM	50	0	20.78	20.78	20.88	20.74	20.86								
10	100GSM	50	0	20.50	20.49	20.51	20.46	20.53	22	2						
10	100GSM	1	25	20.42	20.40	20.54	20.43	20.44								
10	100GSM	1	49	20.29	20.30	20.36	20.24	20.34	21	3						
10	100GSM	25	0	19.75	19.81	19.88	19.74	19.82								
10	100GSM	25	12	19.72	19.86	19.81	19.59	19.66	21	3						
10	100GSM	25	25	19.74	19.75	19.87	19.78	19.67								
10	100GSM	50	0	19.71	19.88	19.80	19.75	19.79	19	5						
10	250GSM	1	0	17.62	17.68	17.74	17.66	17.68								
10	250GSM	1	25	17.46	17.46	17.60	17.47	17.54	19	5						
10	250GSM	1	49	17.49	17.57	17.57	17.53	17.52								
10	250GSM	25	0	17.63	17.65	17.88	17.68	17.68	19	5						
10	250GSM	25	12	17.64	17.70	17.81	17.61	17.70								
10	250GSM	25	25	17.53	17.72	17.79	17.72	17.68	19	5						
10	250GSM	50	0	17.73	17.78	17.88	17.78	17.78								
Channel																
Frequency (MHz)																
5	QPSK	1	0	22.30	22.42	22.73	22.55	22.72	24	0						
5	QPSK	1	12	22.52	22.55	22.64	22.56	22.47								
5	QPSK	1	24	22.49	22.49	22.58	22.50	22.55	23	1						
5	QPSK	12	0	21.47	21.64	21.89	21.62	21.62								
5	QPSK	12	7	21.69	21.65	21.77	21.74	21.74	23	1						
5	QPSK	12	13	21.56												



Band 48_FCC Ant4 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power High Ch / Freq	Tune-up band (dBm)	MPR (dB)	
Channel				56340	56340	56190	56640	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56340	56340	56190	56640			
20	QPSK	1	0	23.12	23.24	23.16	23.08	24	0	
20	QPSK	1	48	23.03	23.12	23.08	22.97			
20	QPSK	8	0	23.00	23.07	22.98	23.03			
20	QPSK	50	0	22.21	22.31	22.24	22.23			
20	QPSK	50	24	22.15	22.21	22.08	22.09	23	1	
20	QPSK	50	50	22.00	22.14	22.03	22.08			
20	QPSK	100	0	22.18	22.28	22.26	22.19			
20	16QAM	1	0	22.34	22.39	22.33	22.36			
20	16QAM	1	48	22.29	22.33	22.18	22.20	23	1	
20	16QAM	1	96	22.17	22.29	22.28	22.26			
20	16QAM	50	0	21.25	21.38	21.27	21.24			
20	16QAM	50	24	21.17	21.22	21.18	21.08			
20	16QAM	50	50	21.04	21.16	21.10	21.12	22	2	
20	16QAM	100	0	21.25	21.28	21.24	21.28			
20	64QAM	1	0	21.17	21.23	21.15	21.15			
20	64QAM	1	48	21.12	21.15	21.05	21.08			
20	64QAM	1	96	20.94	21.08	20.98	21.07	22	2	
20	64QAM	50	0	20.38	20.42	20.30	20.29			
20	64QAM	50	24	20.15	20.29	20.19	20.24			
20	64QAM	50	50	20.23	20.35	20.21	20.24			
20	64QAM	100	0	20.35	20.29	20.14	20.19	21	3	
20	256QAM	1	0	18.10	18.08	17.84	18.03			
20	256QAM	1	48	17.86	18.11	17.84	17.87			
20	256QAM	1	96	17.77	17.93	17.87	17.87			
20	256QAM	25	0	17.81	18.01	17.87	17.87	19	5	
20	256QAM	50	24	17.85	18.13	17.87	18.01			
20	256QAM	50	50	17.87	17.99	17.83	17.75			
20	256QAM	100	0	17.80	18.06	18.03	18.03			
Channel				56315	56300	56160	56660	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56315	56300	56160	56660			
15	QPSK	1	0	23.01	23.16	23.10	23.04	24	0	
15	QPSK	1	37	22.83	23.04	23.03	22.89			
15	QPSK	1	74	22.97	22.94	22.91	22.91			
15	QPSK	36	0	22.11	22.24	22.18	22.18			
15	QPSK	36	20	22.00	22.12	21.97	21.96	23	1	
15	QPSK	36	36	22.00	22.08	21.89	21.94			
15	QPSK	75	0	22.13	22.16	22.11	22.12			
15	16QAM	1	0	22.23	22.28	22.19	22.28			
15	16QAM	1	37	22.24	22.29	22.04	22.18	23	1	
15	16QAM	1	74	22.07	22.19	22.17	22.20			
15	16QAM	36	0	21.14	21.28	21.15	21.18			
15	16QAM	36	20	21.13	21.13	21.05	21.00			
15	16QAM	36	36	20.91	21.09	20.96	21.06	22	2	
15	16QAM	75	0	21.21	21.25	21.18	21.12			
15	64QAM	1	0	21.07	21.18	21.11	21.04			
15	64QAM	1	37	21.06	21.09	20.94	20.99			
15	64QAM	1	74	20.88	20.98	20.86	20.87	22	2	
15	64QAM	36	0	20.24	20.36	20.26	20.16			
15	64QAM	36	20	20.09	20.17	20.08	20.21			
15	64QAM	36	36	20.14	20.30	20.17	20.14			
15	64QAM	75	0	20.17	20.15	20.05	20.11	21	3	
15	256QAM	1	0	18.15	18.08	17.80	18.10			
15	256QAM	1	37	17.80	18.05	17.89	17.87			
15	256QAM	1	74	17.93	17.89	17.78	17.90			
15	256QAM	36	0	17.94	18.10	17.89	18.02	19	5	
15	256QAM	36	20	17.87	18.07	18.01	18.03			
15	256QAM	36	36	17.89	18.02	17.87	17.84			
15	256QAM	75	0	18.04	18.01	18.04	17.92			
Channel				56295	56318	56165	56690	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56295	56318	56165	56690			
10	QPSK	1	0	23.07	23.11	23.08	23.03	24	0	
10	QPSK	1	25	22.92	23.01	22.96	22.86			
10	QPSK	1	48	22.85	23.04	22.81	22.98			
10	QPSK	25	0	22.00	22.18	22.17	22.16			
10	QPSK	25	12	22.05	22.07	22.03	22.05	23	1	
10	QPSK	25	25	22.03	22.00	21.94	21.93			
10	QPSK	50	0	22.05	22.17	22.22	22.09			
10	16QAM	1	0	22.22	22.36	22.23	22.28			
10	16QAM	1	25	22.21	22.28	22.10	22.23	23	1	
10	16QAM	1	48	22.11	22.16	22.22	22.11			
10	16QAM	25	0	21.11	21.32	21.18	21.09			
10	16QAM	25	12	21.11	21.13	21.12	20.98			
10	16QAM	25	25	20.90	21.10	20.88	21.00	22	2	
10	16QAM	50	0	21.20	21.15	21.10	21.14			
10	64QAM	1	0	21.02	21.14	21.10	21.12			
10	64QAM	1	25	21.05	21.07	20.91	21.03			
10	64QAM	1	48	20.81	20.98	20.88	20.92	22	2	
10	64QAM	25	0	20.33	20.27	20.36	20.21			
10	64QAM	25	12	20.03	20.17	20.10	20.15			
10	64QAM	25	25	20.12	20.27	20.05	20.18			
10	64QAM	50	0	20.12	20.21	20.09	20.12	21	3	
10	256QAM	1	0	18.14	18.00	17.80	17.85			
10	256QAM	1	25	17.84	18.05	17.86	18.01			
10	256QAM	1	48	17.80	17.87	17.84	17.75			
10	256QAM	25	0	17.80	18.14	18.12	18.04	19	5	
10	256QAM	25	12	17.84	18.10	17.88	18.08			
10	256QAM	25	25	17.83	18.03	17.90	17.95			
10	256QAM	50	0	18.11	18.00	17.83	17.89			
Channel				56295	56318	56170	56675	Tune-up band (dBm)	MPR (dB)	
Frequency (MHz)				56295	56318	56170	56675			
5	QPSK	1	0	23.08	23.17	23.08	23.02	24	0	
5	QPSK	1	12	22.88	23.01	22.85	22.92			
5	QPSK	1	24	22.86	22.97	22.92	22.98			
5	QPSK	12	0	22.18	22.23	22.18	22.13			
5	QPSK	12	7	22.08	22.15	22.04	22.01	23	1	
5	QPSK	12	13	21.88	22.01	21.93	21.99			
5	QPSK	25	0	22.05	22.14	22.14	22.15			
5	16QAM	1	0	22.29	22.26	22.24	22.22			
5	16QAM	1	12	22.16	22.29	22.05	22.22	23	1	
5	16QAM	1	24	22.02	22.22	22.18	22.14			
5	16QAM	12	0	21.18	21.23	21.22	21.16			
5	16QAM	12	7	21.13	21.13	21.03	20.99			
5	16QAM	12	13	21.00	21.07	21.05	21.03	22	2	
5	16QAM	25	0	21.14	21.19	21.18	21.08			
5	64QAM	1	0	21.08	21.12	21.05	21.04			
5	64QAM	1	12	21.04	21.09	21.00	21.03			
5	64QAM	1	24	20.88	21.04	20.92	20.83	22	2	
5	64QAM	12	0	20.26	20.34	20.26	20.20			
5	64QAM	12	7	20.00	20.16	20.14	20.14			
5	64QAM	12	13	20.11	20.23	20.11	20.09			
5	256QAM	1	0	18.21	18.09	17.83	18.05	19	5	
5	256QAM	1	12	17.90	18.00	17.81	18.04			
5	256QAM	1	24	17.83	18.09	17.82	17.84			
5	256QAM	12	0	17.83	18.10	17.69	18.02			
5	256QAM	12	7	18.03	17.90	18.02	17.82	19	5	
5	256QAM	12	13	17.88	17.97	17.91	17.89			



Band 48_FCC Ant5 ECI4												
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 band (dBm)	MPR (dB)			
Channel				56340	56830	56150	56640					
Frequency (MHz)				3600	3607	3643	3607.5					
20	QPSK	1	0	21.88	21.98	21.93	21.78	23	0			
20	QPSK	1	49	21.87	21.91	21.86	21.91					
20	QPSK	1	89	21.83	21.89	21.87	21.83					
20	QPSK	50	0	21.87	21.79	21.79	21.62					
20	QPSK	50	24	21.70	21.71	21.70	21.67	23	0			
20	QPSK	50	80	21.75	21.72	21.72	21.69					
20	QPSK	100	0	21.65	21.71	21.70	21.50					
20	16QAM	1	0	21.84	21.87	21.87	21.82	23	0			
20	16QAM	1	49	21.88	21.97	21.80	21.57					
20	16QAM	1	99	21.88	21.91	21.72	21.58					
20	16QAM	50	0	20.74	20.86	20.76	20.71					
20	16QAM	50	24	20.84	21.01	20.84	20.58	22	1			
20	16QAM	50	50	20.69	20.84	20.78	20.69					
20	16QAM	100	0	20.65	20.84	20.67	20.57					
20	64QAM	1	0	20.72	20.99	20.58	20.25					
20	64QAM	1	49	20.75	20.92	20.75	20.61	22	1			
20	64QAM	1	99	20.74	20.93	20.84	20.57					
20	64QAM	50	0	19.72	19.93	19.70	19.70					
20	64QAM	50	24	19.86	19.90	19.90	19.57					
20	64QAM	50	80	19.63	19.84	19.84	19.65	21	2			
20	64QAM	100	0	19.71	19.83	19.81	19.55					
20	256QAM	1	0	17.72	17.92	17.89	17.51					
20	256QAM	1	49	17.81	17.78	17.78	17.85	19	4			
20	256QAM	1	99	17.84	17.88	17.78	17.70					
20	256QAM	50	0	17.72	18.00	17.77	17.60					
20	256QAM	50	24	17.78	17.88	17.85	17.53					
20	256QAM	50	50	17.87	18.00	17.75	17.60	19	4			
20	256QAM	100	0	17.77	17.95	17.69	17.58					
Channel				56315	56300	56160	56605					
Frequency (MHz)				3613	3613	3642	3612.5					
15	QPSK	1	0	21.71	21.87	21.68	21.63	23	0			
15	QPSK	1	37	21.84	21.85	21.69	21.68					
15	QPSK	1	74	21.82	21.87	21.60	21.71					
15	QPSK	36	0	21.49	21.66	21.66	21.54					
15	QPSK	36	20	21.89	21.59	21.51	21.66	23	0			
15	QPSK	36	36	21.54	21.71	21.68	21.62					
15	QPSK	75	0	21.87	21.52	21.57	21.37					
15	16QAM	1	0	21.86	21.73	21.84	21.66	23	0			
15	16QAM	1	37	21.73	21.88	21.82	21.48					
15	16QAM	1	74	21.49	21.83	21.72	21.45					
15	16QAM	36	0	20.84	20.84	20.54	20.70					
15	16QAM	36	20	20.81	21.00	20.75	20.57	22	1			
15	16QAM	36	36	20.54	20.90	20.68	20.56					
15	16QAM	75	0	20.48	20.70	20.52	20.68					
15	64QAM	1	0	20.69	20.93	20.83	20.55					
15	64QAM	1	37	20.57	20.77	20.53	20.60	22	1			
15	64QAM	1	74	20.63	20.86	20.84	20.89					
15	64QAM	36	0	19.58	19.76	19.55	19.67					
15	64QAM	36	20	19.58	19.82	19.88	19.55	21	2			
15	64QAM	75	0	19.46	19.84	19.88	19.53					
15	64QAM	75	0	19.57	19.72	19.69	19.54					
15	256QAM	1	0	17.86	17.83	17.62	17.51	19	4			
15	256QAM	1	37	17.72	17.56	17.70	17.54					
15	256QAM	1	74	17.43	17.80	17.77	17.58					
15	256QAM	36	0	17.85	17.80	17.78	17.61					
15	256QAM	36	20	17.62	17.70	17.64	17.67	19	4			
15	256QAM	36	36	17.57	18.00	17.69	17.52					
15	256QAM	75	0	17.74	17.78	17.57	17.59					
Channel				56290	56318	56165	56600					
Frequency (MHz)				3625	3607.5	3642.5	3605					
10	QPSK	1	0	21.59	21.78	21.68	21.60	23	0			
10	QPSK	1	25	21.74	21.79	21.82	21.71					
10	QPSK	1	49	21.70	21.74	21.62	21.55					
10	QPSK	25	0	21.47	21.83	21.68	21.48					
10	QPSK	25	12	21.69	21.52	21.60	21.56	23	0			
10	QPSK	25	25	21.56	21.68	21.63	21.71					
10	QPSK	50	0	21.50	21.63	21.48	21.38					
10	16QAM	1	0	21.74	21.87	21.82	21.38					
10	16QAM	1	25	21.72	21.88	21.68	21.58	23	0			
10	16QAM	1	49	21.54	21.79	21.57	21.48					
10	16QAM	25	0	20.86	20.80	20.68	20.71					
10	16QAM	25	12	20.86	20.80	20.74	20.55					
10	16QAM	50	0	20.51	20.83	20.68	20.52	22	1			
10	64QAM	1	0	20.71	20.80	20.71	20.58					
10	64QAM	1	25	20.58	20.84	20.75	20.58					
10	64QAM	1	49	20.73	20.75	20.72	20.58					
10	64QAM	25	0	19.50	19.83	19.83	19.67	21	2			
10	64QAM	25	12	19.50	19.87	19.89	19.56					
10	64QAM	25	25	19.56	19.76	19.84	19.57					
10	64QAM	50	0	19.54	19.83	19.73	19.38					
10	256QAM	1	0	17.73	17.92	17.59	17.58	19	4			
10	256QAM	1	25	17.77	17.84	17.62	17.44					
10	256QAM	1	49	17.49	17.78	17.75	17.64					
10	256QAM	25	0	17.80	17.88	17.74	17.48					
10	256QAM	25	12	17.85	17.74	17.52	17.46	19	4			
10	256QAM	25	25	17.50	17.89	17.54	17.51					
10	256QAM	50	0	17.78	17.97	17.67	17.69					
Channel				56295	56310	56170	56605					
Frequency (MHz)				3630	3607	3643	3607.5					
5	QPSK	1	0	21.72	21.80	21.63	21.49	23	0			
5	QPSK	1	12	21.72	21.86	21.65	21.80					
5	QPSK	1	24	21.85	21.88	21.58	21.64					
5	QPSK	12	0	21.84	21.78	21.69	21.42					
5	QPSK	12	7	21.54	21.59	21.69	21.47	23	0			
5	QPSK	12	13	21.73	21.69	21.58	21.59					
5	QPSK	25	0	21.82	21.64	21.68	21.59					
5	16QAM	1	0	21.84	21.81	21.82	21.47					
5	16QAM	1	12	21.78	21.76	21.78	21.53	23	0			
5	16QAM	1	24	21.80	21.70	21.52	21.41					
5	16QAM	12	0	20.52	20.84	20.69	20.50					
5	16QAM	12	7	20.73	20.84	20.67	20.46					
5	64QAM	1	12	20.84	20.84	20.68	20.53	22	1			
5	64QAM	25	0	20.50	20.95	20.76	20.60					
5	64QAM	1	0	20.69	20.94	20.75	20.67					
5	64QAM	1	12	20.84	20.84	20.68	20.53					
5	64QAM	1	24	20.53	20.84	20.61	20.46	21	2			
5	64QAM	12	0	19.59	19.88	19.70	19.71					
5	64QAM	12	7	19.44	19.72	19.82	19.44					
5	64QAM	25	0	19.80	19.75	19.82	19.52					
5	256QAM	1	0	17.57	17.89	17.70	17.50	19	4			
5	256QAM	1	12	17.85	17.69	17.73	17.57					
5	256QAM	1	24	17.80	17.75	17.78	17.59					
5	256QAM	12	0	17.86	17.99	17.70	17.60					
5	256QAM	12	7	17.74	17.83	17.72	17.49	19	4			

Band 41 Ant6 Default												
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Hg Ch / Freq	Power High Hg Ch / Freq	Turn-up limit (dBm)	MFR (dB)	
Channel												
Frequency (MHz)				39870	40188	40600	41008	41480				
20	QPSK	1	0	22.52	22.47	22.57	22.53	22.49				
20	QPSK	1	40	22.54	22.37	22.53	22.54	22.38		24	0	
20	QPSK	1	80	22.48	22.47	22.60	22.46	22.48				
20	QPSK	50	0	21.48	21.38	21.55	21.52	21.44				
20	QPSK	50	24	21.32	21.34	21.42	21.38	21.33		23	1	
20	QPSK	50	48	21.55	21.37	21.44	21.46	21.44				
20	QPSK	100	0	21.23	21.29	21.52	21.49	21.39				
20	16QAM	1	0	21.37	21.47	21.50	21.44	21.46		23	1	
20	16QAM	1	40	21.30	21.50	21.44	21.41	21.35				
20	16QAM	1	80	21.31	21.35	21.40	21.30	21.39				
20	16QAM	50	0	20.90	20.43	20.56	20.51	20.50				
20	16QAM	50	24	20.27	20.38	20.42	20.31	20.34		22	2	
20	16QAM	50	50	20.20	20.30	20.36	20.22	20.26				
20	16QAM	100	0	20.40	20.49	20.54	20.42	20.46				
20	16QAM	1	0	20.47	20.32	20.32	20.41	20.42				
20	16QAM	1	40	20.25	20.19	20.30	20.26	20.23		22	2	
20	16QAM	1	80	20.35	20.32	20.35	20.26	20.21				
20	16QAM	50	0	19.44	19.45	19.55	19.47	19.42				
20	16QAM	50	24	19.29	19.33	19.42	19.36	19.29		21	3	
20	16QAM	50	50	19.35	19.35	19.45	19.42	19.35				
20	16QAM	100	0	19.40	19.41	19.54	19.48	19.49				
20	256QAM	1	0	17.42	17.40	17.53	17.43	17.50				
20	256QAM	1	40	17.34	17.39	17.43	17.36	17.35		19	5	
20	256QAM	1	80	17.36	17.32	17.40	17.29	17.37				
20	256QAM	50	0	17.45	17.57	17.64	17.54	17.55				
20	256QAM	50	24	17.08	17.57	17.64	17.54	17.55		19	5	
20	256QAM	50	50	17.52	17.48	17.57	17.53	17.44				
20	256QAM	100	0	17.58	17.68	17.76	17.68	17.69				
Channel												
Frequency (MHz)				39870	40173	40600	41008	41515	41955	Turn-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	22.52	22.47	22.56	22.47	22.43	22.43			
15	QPSK	1	37	22.48	22.24	22.46	22.46	22.21		24	0	
15	QPSK	1	74	22.42	22.38	22.52	22.32	22.34				
15	QPSK	1	8	21.38	21.38	21.51	21.40	21.32				
15	QPSK	36	20	21.24	21.26	21.32	21.26	21.23		23	1	
15	QPSK	36	56	21.25	21.21	21.27	21.21	21.19				
15	QPSK	75	0	21.09	21.10	21.40	21.45	21.34				
15	16QAM	1	0	21.33	21.38	21.43	21.34	21.37				
15	16QAM	1	40	21.15	21.24	21.32	21.26	21.25		23	1	
15	16QAM	1	74	21.17	21.27	21.29	21.15	21.18				
15	16QAM	36	0	20.43	20.36	20.51	20.48	20.37				
15	16QAM	36	30	20.45	20.37	20.51	20.31	20.24		22	2	
15	16QAM	36	59	20.17	20.16	20.27	20.12	20.22				
15	16QAM	75	0	20.43	20.43	20.41	20.31	20.37				
15	16QAM	1	0	20.35	20.34	20.38	20.27	20.30				
15	16QAM	1	37	20.15	20.11	20.19	20.16	20.12		22	2	
15	16QAM	1	74	20.15	20.19	20.13	20.17	20.06				
15	16QAM	36	0	19.40	19.35	19.49	19.41	19.35		21	3	
15	16QAM	36	30	19.24	19.25	19.35	19.24	19.19				
15	16QAM	36	59	19.45	19.39	19.42	19.35	19.25				
15	16QAM	75	0	19.25	19.24	19.49	19.42	19.32				
15	256QAM	1	0	17.37	17.34	17.44	17.29	17.39		19	5	
15	256QAM	1	37	17.24	17.25	17.53	17.21	17.20				
15	256QAM	1	74	17.22	17.26	17.30	17.16	17.25				
15	256QAM	36	0	17.45	17.49	17.51	17.52	17.62				
15	256QAM	36	30	17.45	17.43	17.50	17.39	17.48		19	5	
15	256QAM	36	59	17.49	17.53	17.47	17.41	17.37				
15	256QAM	75	0	17.43	17.47	17.58	17.48	17.50				
Channel												
Frequency (MHz)				39870	40140	40600	41008	41560	41955	Turn-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	22.43	22.36	22.44	22.47	22.49	22.49			
10	QPSK	1	25	22.40	22.30	22.43	22.49	22.29		24.00	0	
10	QPSK	1	49	22.41	22.40	22.58	22.38	22.33				
10	QPSK	25	0	21.43	21.34	21.48	21.46	21.40				
10	QPSK	25	12	21.27	21.24	21.35	21.25	21.19		23	1	
10	QPSK	25	25	21.22	21.14	21.36	21.43	21.32				
10	QPSK	50	0	21.10	21.26	21.45	21.39	21.30				
10	16QAM	1	0	21.33	21.32	21.38	21.39	21.33		23	1	
10	16QAM	1	25	21.17	21.25	21.37	21.37	21.31				
10	16QAM	1	49	21.27	21.31	21.28	21.26	21.27				
10	16QAM	25	0	20.43	20.34	20.45	20.47	20.46				
10	16QAM	25	12	20.16	20.23	20.35	20.19	20.28		22	2	
10	16QAM	25	25	20.15	20.17	20.25	20.07	20.13				
10	16QAM	50	0	20.43	20.42	20.45	20.35	20.38				
10	16QAM	1	0	20.43	20.27	20.48	20.36	20.29				
10	16QAM	1	25	20.19	20.05	20.16	20.19	20.10		22	2	
10	16QAM	1	49	20.15	20.07	20.21	20.08	20.17				
10	16QAM	25	0	19.30	19.31	19.41	19.36	19.27				
10	16QAM	25	12	19.16	19.27	19.32	19.29	19.15		21	3	
10	16QAM	25	25	19.21	19.26	19.42	19.31	19.22				
10	16QAM	50	0	19.27	19.31	19.44	19.35	19.30				
10	256QAM	1	0	17.32	17.36	17.46	17.31	17.39				
10	256QAM	1	25	17.24	17.26	17.36	17.25	17.24		19	5	
10	256QAM	1	49	17.24	17.28	17.30	17.19	17.23				
10	256QAM	25	0	17.51	17.43	17.58	17.51	17.59				
10	256QAM	25	12	17.47	17.50	17.58	17.48	17.42		19	5	
10	256QAM	25	25	17.40	17.31	17.44	17.38	17.45				
10	256QAM	50	0	17.50	17.52	17.58	17.48	17.53				
Channel												
Frequency (MHz)				39870	40140	40600	41008	41560	41955	Turn-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.44	22.40	22.54	22.54	22.40				
5	QPSK	1	15	22.40	22.34	22.49	22.41	22.24		24.00	0	
5	QPSK	1	24	22.38	22.42	22.56	22.40	22.33				
5	QPSK	12	0	21.39	21.29	21.41	21.44	21.37				
5	QPSK	12	7	21.18	21.27	21.33	21.25	21.19		23	1	
5	QPSK	12	13	21.30	21.22	21.38	21.36	21.32				
5	QPSK	25	0	21.19	21.17	21.40	21.39	21.27				
5	16QAM	1	0	21.33	21.37	21.41	21.33	21.36				
5	16QAM	1	12	21.23	21.28	21.39	21.38	21.31		23	1	
5	16QAM	1	24	21.27	21.21	21.29	21.20	21.17				
5	16QAM	12	0	20.39	20.37	20.51	20.38	20.41				
5	16QAM	12	7	20.20	20.23	20.33	20.24	20.25		22	2	
5	16QAM	12	13	20.19	20.18	20.26	20.16	20.13				
5	16QAM	25	0	20.44	20.40	20.47	20.33	20.43				
5	16QAM	1	0	20.42	20.27	20.49	20.32	20.32		22	2	
5	16QAM	1	12	20.17	20.10	20.17	20.02	20.10				
5	16QAM	1	24	20.13	20.15	20.19	20.11	20.10				
5	16QAM	12	0	19.34	19.41	19.52	19.38	19.37				
5	16QAM	12	7	19.15	19.28	19.33	19.25	19.25		21	3	
5	16QAM	12	13	19.24	19.21	19.44	19.34	19.31				
5	16QAM	25	0	19.38	19.30	19.47	19.37	19.30				
5	256QAM	1	0	17.38	17.37	17.50	17.36	17.39				
5	256QAM	1	12	17.24	17.28	17.40	17.31	17.26		19	5	
5	256QAM	1	24	17.23	17.23	17.30	17.25	17.24				
5	256QAM	12	0	17.49	17.46	17.66	17.59	17.57				
5	256QAM	12	7	17.44	17.48	17.50	17.48	17.48				
5	256QAM	12	13	17.37	17.31	17.47	17.40	17.38				



Band 48_FCC Ant7 Default									
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 band (dBm)	MPR (dB)
Channel				56340	56930	56190	56640	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56340	56930	56190	56640		
20	QPSK	1	0	22.85	22.91	22.83	22.81	24	0
20	QPSK	1	49	22.72	22.79	22.55	22.75		
20	QPSK	1	89	22.85	22.88	22.48	22.52		
20	QPSK	50	5	21.85	21.90	21.58	21.76		
20	QPSK	50	24	21.80	21.70	21.63	21.58	23	1
20	QPSK	50	50	21.75	21.86	21.60	21.58		
20	QPSK	100	5	21.76	21.81	21.61	21.72		
20	16QAM	1	5	21.74	21.70	21.68	21.58		
20	16QAM	1	49	21.68	21.65	21.65	21.50	23	1
20	16QAM	1	99	21.58	21.69	21.69	21.57		
20	16QAM	25	5	20.78	20.68	20.59	20.74		
20	16QAM	50	24	20.61	20.60	20.56	20.42		
20	16QAM	50	50	20.71	20.61	20.50	20.60	22	2
20	16QAM	100	5	20.67	20.65	20.54	20.59		
20	64QAM	1	5	20.80	20.52	20.52	20.55		
20	64QAM	1	49	20.65	20.55	20.59	20.69		
20	64QAM	1	99	20.55	20.53	20.43	20.58	21	3
20	64QAM	50	5	19.88	19.81	19.44	19.67		
20	64QAM	50	24	19.79	19.58	19.45	19.42		
20	64QAM	50	50	19.71	19.70	18.43	19.24		
20	64QAM	100	5	19.75	19.76	19.48	19.75	19	5
20	256QAM	1	5	17.66	17.70	17.44	17.63		
20	256QAM	1	49	17.80	17.50	17.64	17.50		
20	256QAM	1	99	17.55	17.72	17.67	17.53		
20	256QAM	25	5	17.79	17.76	17.58	17.65		
20	256QAM	50	24	17.46	17.50	17.55	17.65	19	5
20	256QAM	50	50	17.89	17.73	17.67	17.74		
20	256QAM	100	5	17.67	17.81	17.60	17.67		
Channel				56315	56920	56190	56640	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56315	56920	56190	56640		
15	QPSK	1	0	22.79	22.76	22.53	22.61	24	0
15	QPSK	1	37	22.56	22.85	22.44	22.65		
15	QPSK	1	74	22.63	22.71	22.31	22.42		
15	QPSK	36	5	21.74	21.74	21.58	21.58		
15	QPSK	36	20	21.59	21.52	21.59	21.59	23	1
15	QPSK	36	36	21.64	21.68	21.60	21.55		
15	QPSK	75	0	21.61	21.62	21.44	21.62		
15	16QAM	1	5	21.68	21.72	21.57	21.44		
15	16QAM	1	37	21.48	21.48	21.48	21.40	23	1
15	16QAM	1	74	21.37	21.80	21.40	21.49		
15	16QAM	36	5	20.80	20.66	20.51	20.75		
15	16QAM	36	20	20.45	20.54	20.45	20.52		
15	16QAM	36	36	20.72	20.80	20.44	20.46	22	2
15	16QAM	75	0	20.71	20.76	20.55	20.49		
15	64QAM	1	5	20.65	20.76	20.51	20.68		
15	64QAM	1	37	20.47	20.47	20.39	20.52		
15	64QAM	1	74	20.37	20.63	20.45	20.60	22	2
15	64QAM	36	5	19.53	19.64	19.41	19.45		
15	64QAM	36	20	19.69	19.45	19.38	19.42		
15	64QAM	36	36	19.73	19.67	19.37	19.37		
15	64QAM	75	0	19.57	19.51	19.45	19.74	21	3
15	256QAM	1	5	17.89	17.57	17.46	17.51		
15	256QAM	1	37	17.65	17.30	17.42	17.41		
15	256QAM	1	74	17.35	17.67	17.49	17.35		
15	256QAM	36	5	17.66	17.59	17.51	17.55	19	5
15	256QAM	36	20	17.88	17.78	17.50	17.55		
15	256QAM	36	36	17.76	17.52	17.53	17.58		
15	256QAM	75	0	17.58	17.73	17.41	17.51		
Channel				56305	56915	56185	56635	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56305	56915	56185	56635		
10	QPSK	1	0	22.66	22.84	22.48	22.79	24	0
10	QPSK	1	25	22.71	22.70	22.35	22.74		
10	QPSK	1	49	22.45	22.67	22.37	22.41		
10	QPSK	36	5	21.65	21.69	21.67	21.65		
10	QPSK	25	12	21.64	21.70	21.47	21.48	23	1
10	QPSK	25	25	21.55	21.64	21.40	21.69		
10	QPSK	50	5	21.56	21.61	21.45	21.59		
10	16QAM	1	5	21.52	21.50	21.59	21.41		
10	16QAM	1	25	21.49	21.58	21.62	21.37	23	1
10	16QAM	1	49	21.48	21.63	21.62	21.48		
10	16QAM	25	5	20.81	20.57	20.45	20.53		
10	16QAM	25	12	20.50	20.52	20.51	20.37		
10	16QAM	25	12	20.49	20.72	20.44	20.45	22	2
10	16QAM	50	5	20.67	20.82	20.62	20.48		
10	64QAM	1	5	20.79	20.66	20.37	20.51		
10	64QAM	1	25	20.53	20.47	20.57	20.61		
10	64QAM	1	49	20.55	20.68	20.45	20.62	22	2
10	64QAM	25	5	19.60	19.70	19.29	19.69		
10	64QAM	25	12	19.67	19.51	19.41	19.26		
10	64QAM	25	25	19.67	19.52	19.25	19.44		
10	64QAM	50	5	19.55	19.56	19.35	19.59	21	3
10	256QAM	1	5	17.56	17.66	17.53	17.58		
10	256QAM	1	25	17.77	17.45	17.51	17.41		
10	256QAM	1	49	17.50	17.64	17.35	17.45		
10	256QAM	25	5	17.77	17.64	17.49	17.65	19	5
10	256QAM	25	12	17.63	17.67	17.62	17.56		
10	256QAM	25	25	17.57	17.52	17.50	17.50		
10	256QAM	50	5	17.80	17.72	17.41	17.65		
Channel				56925	56910	56180	56630	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56925	56910	56180	56630		
5	QPSK	1	0	22.71	22.88	22.45	22.67	24	0
5	QPSK	1	12	22.61	22.76	22.53	22.73		
5	QPSK	1	24	22.47	22.84	22.54	22.45		
5	QPSK	12	0	21.79	21.68	21.50	21.68		
5	QPSK	12	7	21.61	21.52	21.45	21.58	23	1
5	QPSK	12	13	21.69	21.67	21.50	21.59		
5	QPSK	25	8	21.69	21.77	21.47	21.56		
5	16QAM	1	5	21.64	21.60	21.53	21.47		
5	16QAM	1	12	21.52	21.54	21.57	21.39	23	1
5	16QAM	1	24	21.30	21.68	21.58	21.47		
5	16QAM	12	5	20.72	20.89	20.42	20.89		
5	16QAM	12	7	20.50	20.53	20.33	20.38		
5	16QAM	12	13	20.53	20.72	20.45	20.51	22	2
5	16QAM	25	5	20.68	20.85	20.54	20.37		
5	64QAM	1	5	20.63	20.67	20.53	20.57		
5	64QAM	1	12	20.64	20.45	20.36	20.40		
5	64QAM	1	24	20.43	20.65	20.46	20.55	21	3
5	64QAM	12	5	19.46	19.67	19.29	19.66		
5	64QAM	12	7	19.40	19.56	19.35	19.31		
5	64QAM	12	13	19.52	19.48	19.34	19.42		
5	256QAM	1	24	17.60	17.71	17.51	17.46	19	5
5	256QAM	1	12	17.74	17.44	17.54	17.40		
5	256QAM	12	5	17.58	17.67	17.43	17.56		
5	256QAM	12	7	17.65	17.68	17.41	17.48		
5	256QAM	12	13	17.75	17.73	17.50	17.68	19	5
5	256QAM	25	5	17.57	17.69	17.61	17.52		



Reduced Power Mode for EC16 Standalone

GSM850 Anti Default					
Best Average Power (dBm)			Frame Average Power (dBm)		
TX Channel	1850	1850.4	1850.8	1850	1850.4
Frequency (MHz)	854.2	854.4	854.8	854.2	854.4
OSM1 Tx Mode	32.02	32.09	32.09	33.00	23.02
OPRS1 Tx Mode	32.06	32.15	32.15	33.00	23.15
OPRS2 Tx Mode	32.24	32.29	32.21	32.00	25.24
OPRS3 Tx Mode	29.31	29.40	29.40	30.00	25.30
OPRS4 Tx Mode	28.08	28.17	28.10	29.00	25.17
EDGE 1 Tx Mode	23.40	23.69	23.69	27.00	17.00
EDGE 2 Tx Mode	23.48	23.61	23.57	26.00	19.01
EDGE 3 Tx Mode	23.08	23.14	23.09	24.00	18.80
EDGE 4 Tx Mode	21.70	21.82	21.75	23.00	18.52

GSM1900 Anti EC16					
Best Average Power (dBm)			Frame Average Power (dBm)		
TX Channel	1850	1850.4	1850.8	1850.2	1850.6
Frequency (MHz)	1850.2	1850.4	1850.8	1850.2	1850.6
OSM1 Tx Mode	27.16	27.19	26.98	28.00	18.16
OPRS1 Tx Mode	27.17	27.22	27.12	28.00	18.17
OPRS2 Tx Mode	26.34	26.35	26.20	27.00	20.34
OPRS3 Tx Mode	24.63	24.74	24.63	25.00	20.28
OPRS4 Tx Mode	23.46	23.59	23.41	24.00	20.08
EDGE 1 Tx Mode	23.07	23.11	23.07	24.00	14.07
EDGE 2 Tx Mode	22.46	22.55	22.36	23.00	16.35
EDGE 3 Tx Mode	20.10	20.29	19.98	21.00	15.84
EDGE 4 Tx Mode	18.70	18.92	18.68	20.00	15.70

Best		WCDMA II Anti EC16		WCDMA IV Anti EC16		WCDMA V Anti Default	
TX Channel	8052	8052	8058	1512	1512	4332	4338
Frequency (MHz)	8052	8052	8058	1512	1512	4332	4338
ISPP Pair 0	20.87	20.98	20.94	21.00	20.00	22.63	22.71
ISPP Pair 1	20.81	20.81	20.96	21.00	20.07	21.04	21.06
ISPP Pair 2	19.73	19.82	19.70	20.00	19.14	21.01	21.61
ISPP Pair 3	19.63	19.60	19.63	20.00	18.91	19.14	20.00
ISPP Pair 4	19.08	19.44	19.12	20.00	18.45	18.97	19.10
ISPP Pair 5	19.33	19.51	19.48	20.00	18.72	18.81	18.73
ISPP Pair 6	19.87	19.74	19.60	20.00	19.10	18.90	20.00
ISPP Pair 7	19.14	18.80	19.51	20.00	19.12	18.80	20.00
ISPP Pair 8	19.20	19.44	19.04	20.00	18.92	18.85	19.10
ISPP Pair 9	19.09	19.36	19.20	20.00	18.44	18.39	18.81
ISPP Pair 10	19.75	19.94	19.61	20.00	19.05	19.29	19.87
ISPP Pair 11	17.62	17.80	17.84	18.00	17.00	17.00	18.00
ISPP Pair 12	18.66	18.80	18.72	19.00	17.96	18.16	18.12
ISPP Pair 13	17.72	18.00	17.69	18.00	16.57	16.97	18.00
ISPP Pair 14	19.83	19.80	19.83	20.00	19.14	19.20	20.00



Band 2 Ant0 EC16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Mod Ch./F.Freq.	Power Hsp Ch./F.Freq.	Power Hsp Ch./F.Freq.	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	20.58	20.62	20.59	21.5	0	
20	QPSK	1	49	20.44	20.55	20.50			
20	QPSK	1	99	20.35	20.38	20.36	21.5	0	
20	QPSK	50	0	20.53	20.55	20.50			
20	QPSK	50	24	20.31	20.41	20.36	21.5	0	
20	QPSK	50	50	20.32	20.38	20.31			
20	QPSK	100	0	20.51	20.55	20.47	21.5	0	
20	16QAM	1	0	20.39	20.40	20.35			
20	16QAM	1	49	20.41	20.45	20.42	21.5	0	
20	16QAM	1	99	20.33	20.41	20.33			
20	16QAM	50	24	20.34	20.44	20.36	21.5	0	
20	16QAM	50	50	20.31	20.41	20.34			
20	16QAM	100	0	20.40	20.51	20.41	21.5	0	
20	64QAM	1	0	20.37	20.50	20.43			
20	64QAM	1	49	20.38	20.53	20.46	21.5	0	
20	64QAM	1	99	20.34	20.46	20.36			
20	64QAM	50	0	19.96	20.05	19.98	21	0.5	
20	64QAM	50	24	19.94	20.00	19.93			
20	64QAM	50	50	19.94	20.00	19.93	21	0.5	
20	64QAM	100	0	20.02	20.08	19.97			
20	256QAM	1	49	18.05	18.22	18.06	19	2.5	
20	256QAM	1	99	18.02	18.10	17.96			
20	256QAM	50	24	18.03	18.05	18.02	19	2.5	
20	256QAM	50	50	18.05	18.11	17.99			
20	256QAM	100	0	17.86	18.04	18.00	19	2.5	
20	256QAM	100	0	17.87	18.00	17.96			
20	256QAM	100	0	17.85	18.05	17.80			
20	256QAM	100	0	17.86	18.00	17.82			
Channel									
Frequency [MHz]									
15	QPSK	1	0	20.52	20.58	20.54	21.5	0	
15	QPSK	1	37	20.29	20.31	20.30			
15	QPSK	1	74	20.30	20.31	20.30	21.5	0	
15	QPSK	36	0	20.48	20.49	20.37			
15	QPSK	36	36	20.31	20.32	20.31	21.5	0	
15	QPSK	36	39	20.19	20.31	20.17			
15	16QAM	1	0	20.36	20.40	20.38	21.5	0	
15	16QAM	1	1	20.33	20.42	20.33			
15	16QAM	1	37	20.34	20.49	20.25	21.5	0	
15	16QAM	1	74	20.29	20.28	20.20			
15	16QAM	36	0	20.37	20.34	20.31	21.5	0	
15	16QAM	36	20	20.34	20.37	20.29			
15	16QAM	75	0	20.32	20.49	20.32	21.5	0	
15	16QAM	75	0	20.32	20.49	20.32			
15	64QAM	1	0	20.33	20.38	20.38	21	0.5	
15	64QAM	1	37	20.43	20.35	20.38			
15	64QAM	1	74	20.34	20.32	20.32	21	0.5	
15	64QAM	36	0	19.85	19.86	19.84			
15	64QAM	36	36	19.83	19.85	19.83	21	0.5	
15	64QAM	36	39	19.81	19.82	19.73			
15	64QAM	75	0	19.89	19.85	19.83	19	2.5	
15	256QAM	1	37	17.92	18.05	18.06			
15	256QAM	1	74	17.86	18.05	17.81	19	2.5	
15	256QAM	36	0	17.88	18.03	17.84			
15	256QAM	36	39	17.89	18.02	17.94	19	2.5	
15	256QAM	36	39	17.82	17.82	17.83			
15	256QAM	75	0	17.87	17.82	17.85	19	2.5	
15	256QAM	75	0	17.87	17.82	17.85			
15	256QAM	75	0	17.87	17.82	17.85			
15	256QAM	75	0	17.87	17.82	17.85			
Channel									
Frequency [MHz]									
10	QPSK	1	0	20.52	20.58	20.54	21.5	0	
10	QPSK	1	25	20.32	20.44	20.43			
10	QPSK	1	49	20.29	20.34	20.25	21.5	0	
10	QPSK	1	74	20.30	20.31	20.30			
10	QPSK	25	13	20.20	20.34	20.28	21.5	0	
10	QPSK	25	25	20.26	20.33	20.22			
10	16QAM	1	0	20.36	20.40	20.38	21.5	0	
10	16QAM	1	1	20.33	20.42	20.33			
10	16QAM	1	25	20.37	20.42	20.31	21.5	0	
10	16QAM	1	25	20.38	20.39	20.33			
10	16QAM	25	13	20.38	20.42	20.32	21.5	0	
10	16QAM	25	13	20.38	20.42	20.32			
10	16QAM	50	0	20.26	20.38	20.34	21.5	0	
10	16QAM	50	0	20.26	20.38	20.34			
10	64QAM	1	0	20.30	20.39	20.33	21.5	0	
10	64QAM	1	25	20.34	20.41	20.34			
10	64QAM	1	49	20.26	20.37	20.30	21	0.5	
10	64QAM	25	0	19.84	19.91	19.86			
10	64QAM	25	13	19.83	19.85	19.73	21	0.5	
10	64QAM	50	0	19.72	19.82	19.76			
10	64QAM	50	0	19.80	19.87	19.82	19	2.5	
10	256QAM	1	25	17.82	18.01	17.84			
10	256QAM	1	49	17.89	18.02	17.86	19	2.5	
10	256QAM	25	13	17.86	18.02	17.84			
10	256QAM	25	25	17.87	17.91	17.86	19	2.5	
10	256QAM	25	25	17.87	17.91	17.86			
10	256QAM	25	25	17.87	17.91	17.86			
10	256QAM	25	25	17.87	17.91	17.86			
Channel									
Frequency [MHz]									
5	QPSK	1	0	20.52	20.58	20.54	21.5	0	
5	QPSK	1	12	20.29	20.40	20.41			
5	QPSK	1	24	20.25	20.34	20.27	21.5	0	
5	QPSK	1	49	20.43	20.45	20.40			
5	QPSK	12	7	20.23	20.40	20.22	21.5	0	
5	QPSK	12	13	20.22	20.26	20.20			
5	16QAM	1	0	20.42	20.41	20.38	21.5	0	
5	16QAM	1	1	20.29	20.37	20.21			
5	16QAM	1	12	20.34	20.43	20.29	21.5	0	
5	16QAM	1	24	20.31	20.35	20.31			
5	16QAM	12	0	20.33	20.38	20.34	21.5	0	
5	16QAM	12	7	20.28	20.42	20.31			
5	16QAM	12	13	20.23	20.32	20.23	21.5	0	
5	16QAM	25	0	20.32	20.47	20.36			
5	16QAM	25	0	20.32	20.47	20.36	21.5	0	
5	16QAM	50	0	20.26	20.42	20.32			
5	64QAM	1	0	20.32	20.46	20.38	21.5	0	
5	64QAM	1	24	20.29	20.31	20.27			
5	64QAM	12	0	19.83	19.85	19.86	21	0.5	
5	64QAM	12	13	19.81	19.87	19.78			
5	64QAM	25	0	19.82	19.86	19.78	21	0.5	
5	64QAM	25	13	19.81	19.89	19.72			
5	64QAM	50	0	19.82	19.86	19.82	19	2.5	
5	64QAM	50	0	19.84	19.85	19.80			
5	256QAM	1	12	17.88	18.10	17.86	19	2.5	
5	256QAM	1	24	17.82	18.05	17.86			
5	256QAM	12	7	17.91	18.04	17.92	19	2.5	
5	256QAM	12	13	17.88	17.96	17.82			
5	256QAM	12	13	17.82	17.86	17.81	19	2.5	
5	256QAM	12	13	17.82	17.86	17.81			
5	256QAM	12	13	17.82	17.86	17.81			
5	256QAM	12	13	17.82	17.86	17.81			
Channel									
Frequency [MHz]									
3	QPSK	1	0	20.46	20.50	20.54	21.5	0	
3	QPSK	1	8	20.28	20.47	20.35			
3	QPSK	1	14	20.31	20.52	20.27	21.5	0	
3	QPSK	8	4	20.48	20.45	20.43			
3	QPSK	8	4	20.19	20.38	20.23	21.5	0	
3	QPSK	8	7	20.24	20.33	20.27			
3	16QAM	1	0	20.39	20.50	20.37	21.5	0	
3	16QAM	1	8	20.34	20.44	20.31			
3	16QAM	1	8	20.26	20.37	20.35	21.5	0	
3	16QAM	8	4	20.20	20.24	20.28			
3	16QAM	8	4	20.34	20.41	20.34	21.5	0	
3	16QAM	8	4	20.28	20.49	20.33			
3	16QAM	16	0	20.22	20.39	20.23	21.5	0	
3	16QAM	16	0	20.35	20.42	20.29			
3	64QAM	1	0	20.26	20.46	20.30	21.5	0	
3	64QAM	1	14	20.25	20.35	20.30			
3	64QAM	8	4	19.89	19.88	19.79	21	0.5	
3	64QAM	8	4	19.86	19.84	19.84			
3	64QAM	16	0	19.86	19.86	19.78	21	0.5	
3	64QAM	16	0	19.83	19.81	17.87			
3	64QAM	16	0	19.83	19.82	17.88	19	2.5	
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88	19	2.5	
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88	19	2.5	
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88	19	2.5	
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88	19	2.5	
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88	19	2.5	
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88			
3	64QAM	16	0	19.83	19.82	17.88	19	2.5	

Band 12 Ant0 Default														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MPR (dB)						
Channel														
Frequency [MHz]														
10	QPSK	1	0	22.99	23.02	22.91	24	0						
10	QPSK	1	25	22.84	22.92	22.96								
10	QPSK	1	49	22.85	22.89	22.83								
10	QPSK	25	0	21.81	22.02	21.89								
10	QPSK	25	12	21.81	21.87	21.91	23	1						
10	QPSK	25	25	21.84	21.90	21.75								
10	QPSK	50	0	21.82	21.86	21.91								
10	16QAM	1	0	21.85	21.92	21.85								
10	16QAM	1	25	21.83	21.87	21.73	23	1						
10	16QAM	1	49	21.70	21.80	21.74								
10	16QAM	25	0	20.48	20.58	20.53								
10	16QAM	25	12	20.49	20.53	20.40								
10	16QAM	25	25	20.42	20.45	20.36	22	2						
10	16QAM	50	0	20.55	20.61	20.56								
10	64QAM	1	0	20.80	20.85	20.71								
10	64QAM	1	25	20.70	20.75	20.66								
10	64QAM	1	49	20.58	20.71	20.64	21	3						
10	64QAM	25	0	19.48	19.55	19.49								
10	64QAM	25	12	19.43	19.50	19.46								
10	64QAM	25	25	19.35	19.43	19.34								
10	64QAM	50	0	19.52	19.58	19.44	19	5						
10	256QAM	1	25	17.65	17.70	17.67								
10	256QAM	1	49	17.51	17.63	17.57								
10	256QAM	25	0	17.68	17.75	17.67								
10	256QAM	25	12	17.44	17.59	17.39	19	5						
10	256QAM	25	25	17.39	17.43	17.32								
10	256QAM	50	0	20.65	20.68	20.56								
Unit-to-unit diff.														
Frequency [MHz]														
5	QPSK	1	0	22.91	22.91	22.80	24	0						
5	QPSK	1	12	22.91	22.86	22.87								
5	QPSK	1	24	22.71	22.79	22.71								
5	QPSK	12	0	21.82	21.90	21.74								
5	QPSK	12	13	21.84	21.93	21.87	23	1						
5	QPSK	12	13	21.77	21.80	21.62								
5	QPSK	25	0	21.76	21.80	21.86								
5	16QAM	1	0	21.76	21.78	21.74								
5	16QAM	1	12	21.76	21.78	21.59	23	1						
5	16QAM	1	24	21.60	21.68	21.63								
5	16QAM	12	0	20.34	20.48	20.46								
5	16QAM	12	7	20.48	20.41	20.28								
5	16QAM	12	13	20.29	20.30	20.27	22	2						
5	16QAM	25	0	20.42	20.49	20.47								
5	64QAM	1	0	20.73	20.73	20.59								
5	64QAM	1	24	20.47	20.59	20.59								
5	64QAM	12	0	19.43	19.50	19.36	21	3						
5	64QAM	12	7	19.38	19.37	19.35								
5	64QAM	12	13	19.30	19.35	19.21								
5	64QAM	25	0	19.41	19.53	19.38								
5	256QAM	1	0	17.61	17.65	17.64	19	5						
5	256QAM	1	12	17.57	17.59	17.51								
5	256QAM	1	24	17.41	17.42	17.51								
5	256QAM	12	0	17.36	17.42	17.34								
5	256QAM	12	7	17.37	17.42	17.34	19	5						
5	256QAM	12	13	17.29	17.35	17.24								
5	256QAM	25	0	17.40	17.45	17.42								
Unit-to-unit diff.														
Frequency [MHz]														
3	QPSK	1	0	22.95	23.08	22.95	24	0						
3	QPSK	1	8	22.83	22.88	22.91								
3	QPSK	1	14	22.78	22.83	22.74								
3	QPSK	8	0	21.77	21.80	21.85								
3	QPSK	8	7	21.75	21.87	21.86	23	1						
3	QPSK	8	7	21.73	21.84	21.88								
3	QPSK	16	0	21.79	21.82	21.79								
3	16QAM	1	0	21.80	21.80	21.79								
3	16QAM	1	8	21.78	21.79	21.64	23	1						
3	16QAM	1	8	21.69	21.70	21.60								
3	16QAM	8	0	20.34	20.49	20.44								
3	16QAM	8	4	20.37	20.48	20.29								
3	16QAM	8	7	20.28	20.35	20.30	22	2						
3	16QAM	15	0	20.48	20.53	20.48								
3	64QAM	1	0	20.88	20.79	20.63								
3	64QAM	1	8	20.65	20.72	20.54								
3	64QAM	1	14	20.54	20.57	20.58	21	3						
3	64QAM	8	0	19.41	19.40	19.45								
3	64QAM	8	4	19.37	19.38	19.35								
3	64QAM	8	7	19.31	19.31	19.23								
3	64QAM	15	0	19.48	19.50	19.35	19	5						
3	256QAM	1	0	17.53	17.55	17.55								
3	256QAM	1	8	17.53	17.59	17.80								
3	256QAM	1	14	17.48	17.59	17.46								
3	256QAM	8	0	17.38	17.47	17.36	19	5						
3	256QAM	8	4	17.38	17.38	17.29								
3	256QAM	8	7	17.30	17.32	17.25								
3	256QAM	15	0	17.42	17.53	17.41								
Unit-to-unit diff.														
Frequency [MHz]														
1.4	QPSK	1	0	22.94	23.00	22.87	24	0						
1.4	QPSK	1	3	22.81	22.89	22.90								
1.4	QPSK	1	5	22.81	22.84	22.88								
1.4	QPSK	3	0	22.90	22.96	22.85								
1.4	QPSK	3	1	22.85	22.97	22.90	23	1						
1.4	QPSK	3	3	22.77	22.83	22.84								
1.4	QPSK	6	0	21.80	21.89	21.75								
1.4	16QAM	1	0	21.87	21.88	21.87								
1.4	16QAM	1	3	21.79	21.85	21.83	23	1						
1.4	16QAM	1	6	21.73	21.80	21.77								
1.4	16QAM	3	0	21.74	21.78	21.79								
1.4	16QAM	3	1	21.69	21.73	21.69								
1.4	16QAM	6	0	21.86	21.72	21.68	22	2						
1.4	16QAM	6	0	20.43	20.47	20.46								
1.4	64QAM	1	0	20.37	20.40	20.29								
1.4	64QAM	1	3	20.33	20.31	20.21								
1.4	64QAM	1	5	20.50	20.50	20.50	22	2						
1.4	64QAM	3	0	20.72	20.71	20.59								
1.4	64QAM	3	2	20.67	20.64	20.61								
1.4	64QAM	3	3	20.45	20.57	20.53								
1.4	64QAM	6	0	19.46	19.46	19.34	21	3						
1.4	256QAM	1	0	17.52	17.67	17.54								
1.4	256QAM	1	3	17.51	17.58	17.54								
1.4	256QAM	1	5	17.38	17.52	17.49								
1.4	256QAM	3	0	17.35	17.43	17.34	19	5						
1.4	256QAM	3	1	17.33	17.42	17.29								
1.4	256QAM	3	2	17.30	17.35	17.34								
1.4	256QAM	6	0	17.39	17.52	17.39								

Band 13 Ant0 Default				
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Band 25 Ant0 ECI6																		
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MFR (dB)										
Channel																		
Frequency (MHz)																		
20	QPSK	1	0	20.60	20.64	20.69	21.5	0										
20	QPSK	1	49	20.37	20.48	20.46												
20	QPSK	1	99	20.37	20.48	20.46												
20	QPSK	50	0	20.58	20.60	20.59												
20	QPSK	50	24	20.38	20.38	20.47	21.5	0										
20	QPSK	50	50	20.42	20.39	20.42												
20	QPSK	100	0	20.54	20.55	20.48												
20	16QAM	1	0	20.41	20.56	20.59												
20	16QAM	1	49	20.44	20.52	20.41	21.5	0										
20	16QAM	1	99	20.39	20.44	20.41												
20	16QAM	50	0	20.51	20.57	20.54												
20	16QAM	50	24	20.49	20.55	20.48												
20	16QAM	50	50	20.43	20.47	20.42	21.5	0										
20	16QAM	100	0	20.45	20.50	20.42												
20	64QAM	1	0	20.45	20.51	20.51												
20	64QAM	1	49	20.47	20.59	20.50												
20	64QAM	50	0	19.43	19.54	19.46	21	0.5										
20	64QAM	50	24	19.41	19.52	19.35												
20	64QAM	50	50	19.38	19.50	19.43												
20	64QAM	100	0	19.38	19.50	19.38												
20	256QAM	1	49	17.80	17.81	17.81	19	2.5										
20	256QAM	1	99	17.55	17.79	17.45												
20	256QAM	50	0	17.40	17.67	17.37												
20	256QAM	50	24	17.31	17.79	17.31												
20	256QAM	50	50	17.30	17.64	17.37	19	2.5										
20	256QAM	100	0	17.45	17.77	17.38												
Channel																		
Frequency (MHz)																		
18	QPSK	1	0	20.57	20.58	20.51			21.5	0								
18	QPSK	1	37	20.47	20.53	20.46												
18	QPSK	1	74	20.33	20.38	20.33												
18	QPSK	36	0	20.47	20.56	20.48												
18	QPSK	36	36	20.31	20.41	20.36	21.5	0										
18	QPSK	36	72	20.43	20.41	20.35												
18	QPSK	72	0	20.43	20.41	20.35												
18	16QAM	1	0	20.31	20.46	20.38												
18	16QAM	1	37	20.38	20.41	20.35	21.5	0										
18	16QAM	1	74	20.27	20.34	20.27												
18	16QAM	36	0	20.48	20.48	20.44												
18	16QAM	36	36	20.44	20.44	20.44												
18	16QAM	36	72	20.35	20.40	20.35	21.5	0										
18	16QAM	75	0	20.37	20.51	20.34												
18	64QAM	1	0	20.36	20.50	20.47												
18	64QAM	1	37	20.35	20.49	20.46												
18	64QAM	1	74	20.35	20.44	20.35	21	0.5										
18	64QAM	36	0	19.31	19.73	19.33												
18	64QAM	36	36	19.31	19.74	19.33												
18	64QAM	36	72	19.35	19.75	19.35												
18	64QAM	75	0	19.29	19.74	19.34	19	2.5										
18	256QAM	1	49	17.55	17.74	17.55												
18	256QAM	1	37	17.47	17.69	17.43												
18	256QAM	1	74	17.47	17.74	17.34												
18	256QAM	50	0	17.52	17.68	17.39	19	2.5										
18	256QAM	50	24	17.24	17.65	17.22												
18	256QAM	36	36	17.23	17.54	17.24												
18	256QAM	75	0	17.40	17.67	17.35												
Channel																		
Frequency (MHz)																		
20	QPSK	1	0	20.60	20.64	20.69	21.5	0										
20	QPSK	1	26	20.45	20.55	20.47												
20	QPSK	1	49	20.28	20.37	20.33												
20	QPSK	1	74	20.15	20.48	20.37												
20	QPSK	25	12	20.31	20.40	20.41	21.5	0										
20	QPSK	25	25	20.29	20.29	20.32												
20	QPSK	100	0	20.40	20.40	20.40												
20	16QAM	1	0	20.34	20.43	20.34	21.5	0										
20	16QAM	1	26	20.31	20.37	20.31												
20	16QAM	25	0	20.43	20.51	20.40												
20	16QAM	25	12	20.35	20.47	20.37												
20	16QAM	36	0	20.34	20.34	20.36	21.5	0										
20	16QAM	36	36	20.34	20.34	20.36												
20	16QAM	50	0	20.39	20.47	20.37												
20	64QAM	1	0	20.37	20.55	20.41												
20	64QAM	1	26	20.35	20.45	20.35	21	0.5										
20	64QAM	1	49	20.28	20.42	20.27												
20	64QAM	25	0	19.35	19.50	19.34												
20	64QAM	25	12	19.35	19.71	19.35												
20	64QAM	50	0	19.31	19.73	19.34	19	2.5										
20	256QAM	1	49	17.58	17.64	17.56												
20	256QAM	1	26	17.47	17.74	17.37												
20	256QAM	1	49	17.47	17.68	17.39												
20	256QAM	25	0	17.36	17.65	17.25	19	2.5										
20	256QAM	25	12	17.21	17.70	17.26												
20	256QAM	25	25	17.24	17.53	17.31												
20	256QAM	50	0	17.35	17.67	17.30												
Channel																		
Frequency (MHz)																		
20	QPSK	1	0	20.60	20.64	20.69	21.5	0										
20	QPSK	1	12	20.48	20.55	20.52												
20	QPSK	1	24	20.29	20.43	20.34												
20	QPSK	12	0	20.46	20.51	20.46												
20	QPSK	12	7	20.31	20.44	20.37	21.5	0										
20	QPSK	12	13	20.32	20.35	20.28												
20	QPSK	25	0	20.45	20.51	20.35												
20	16QAM	1	0	20.28	20.47	20.30												
20	16QAM	1	12	20.32	20.41	20.33	21.5	0										
20	16QAM	12	0	20.37	20.47	20.30												
20	16QAM	12	13	20.32	20.37	20.32												
20	16QAM	25	0	20.37	20.56	20.36												
20	16QAM	25	7	20.37	20.48	20.36	21.5	0										
20	16QAM	12	13	20.32	20.37	20.32												
20	16QAM	1	12	20.40	20.49	20.38												
20	16QAM	1	24	20.37	20.46	20.37												
20	16QAM	12	26	19.36	19.75	19.35	21	0.5										
20	16QAM	12	7	19.36	19.78	19.27												
20	16QAM	25	0	19.32	19.72	19.32												
20	16QAM	25	0	19.33	19.77	19.30												
20	16QAM	1	0	20.46	20.54	20.47	19	2.5										
20	16QAM	1	14	20.17	20.73	20.43												
20	16QAM	1	26	20.12	20.78	20.46												
20	16QAM	1	74	19.67	17.67	17.31												
20	16QAM	12	0	20.17	20.69	20.37	19	2.5										
20	16QAM	12	13	20.17	20.69	20.37												
20	16QAM	12	19	17.19	17.60	17.23												
20	16QAM	25	0	17.38	17.70	17.34												
Channel																		
Frequency (MHz)																		
3	QPSK	1	0	20.60	20.67	20.65	21.5	0										
3	QPSK	1	12	20.48	20.59	20.52												
3	QPSK	1	24	20.29	20.43	20.34												
3	QPSK	12	0	20.46	20.55	20.46												
3	QPSK	12	7	20.31	20.44	20.37	21.5	0										
3	QPSK	12	13	20.32	20.35	20.28												
3	QPSK	25	0	20.45	20.51	20.35												
3	16QAM	1	0	20.28	20.47	20.30												
3	16QAM	1	12	20.32	20.41	20.33	21.5	0										
3	16QAM	12	0	20.37	20.47	20.30												
3	16QAM	12	13	20.32	20.37	20.32												
3	16QAM	25	0	20.37	20.56	20.36												
3	16QAM	25	7	20.37	20.48	20.36	21	0.5										
3	16QAM	12	13	20.32	20.37	20.32												
3	16QAM	1	12	20.40	20.49	20.38												
3	16QAM	1	24	20.37	20.46	20.37												
3	16QAM	12	26	19.36	19.75	19.35	19	2.5										
3	16QAM	12	7	19.36	19.78	19.27												
3	16QAM	25	0	19.32	19.72	19.32												
3	16QAM	25	0	19.33	19.77	19.30												
3	16QAM	1	0	20.46	20.54	20.47	19	2.5										
3	16QAM	1	14	20.17	20.73	20.43												
3	16QAM	1	26	20.12	20.78	20.46												
3	16QAM	1	74	19.67	17.67	17.31												
3	16QAM	12	0	20.17	20.69	20.37	19	2.5										
3	16QAM	12	13	20.17	20.69	20.37												
3	16QAM	12	19	17.19	17.60	17.23												
3	16QAM	25	0	17.38	17.70	17.34												
Channel																		
Frequency (MHz)																		
20	QPSK	1	0	20.60	20.64	20.69	21.5	0										
20	QPSK	1	12	20.48	20.55	20.52												
20	QPSK	1	24	20.29	20.43	20.34												
20	QPSK	12	0	20.46	20.51	20.46												
20	QPSK	12	7	20.31	20.44	20.37	21.5	0										
20	QPSK	12	13	20.32	20.35	20.28												
20	QPSK	25	0	20.45	20.51	20.35												
20	16QAM	1	0	20.28	20.47	20.30												
20	16QAM	1	12	20.32	20.41	20.33	21.5	0										
20	16QAM	12	0	20.37	20.47	20.30												
20	16QAM	12	13	20.32	20.37	20.32												
20	16QAM	25	0	20.37	20.56	20.36												
20	16QAM	25	7	20.37	20.48	20.36	21	0.5										
20	16QAM	12	13	20.32	20.37	20.32												
20	16QAM	1	12	20.40	20.49	20.38												
20	16QAM	1	24	20.37	20.46	20.37												
20	16QAM	12	26	19.36	19.75	19.35	19	2.5										
20	16QAM	12	7	19.36	19.78	19.27												
20	16QAM	25	0	19.32	19.72	19.32												
20	16QAM	25	0	19.33	19.77	19.30												
20	16QAM	1	0	20.46	20.54	20.47	19	2.5										
20	16QAM	1	14	20.17	20.73	20.43												
20	16QAM	1	26	20.12	20.78	20.46												
20	16QAM	1	74	19.67														



Band 66 Ant0 EC16												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	19.76	19.80	19.71	20.5	0				
20	QPSK	1	49	19.68	19.75	19.63						
20	QPSK	1	99	19.58	19.67	19.52						
20	QPSK	50	0	19.72	19.74	19.64						
20	QPSK	50	24	19.68	19.75	19.62						
20	QPSK	50	50	19.57	19.68	19.55	20.5	0				
20	QPSK	100	0	19.62	19.71	19.65						
20	16QAM	1	0	19.65	19.70	19.70						
20	16QAM	1	49	19.64	19.70	19.60						
20	16QAM	1	99	19.59	19.64	19.46						
20	16QAM	50	0	19.66	19.71	19.57	20.5	0				
20	16QAM	50	24	19.72	19.69	19.71						
20	16QAM	50	50	19.59	19.72	19.71						
20	16QAM	100	0	19.65	19.72	19.59						
20	64QAM	1	0	19.69	19.62	19.65						
20	64QAM	1	49	19.58	19.66	19.55	20.5	0				
20	64QAM	1	99	19.64	19.72	19.61						
20	64QAM	50	0	19.66	19.77	19.64						
20	64QAM	50	24	19.57	19.65	19.59						
20	64QAM	50	50	19.62	19.71	19.65						
20	64QAM	100	0	19.65	19.72	19.64	20.5	0				
20	256QAM	1	0	19.72	19.74	19.65						
20	256QAM	1	49	19.16	19.29	19.07						
20	256QAM	1	99	19.12	19.22	19.05						
20	256QAM	50	0	19.19	19.28	19.14						
20	256QAM	50	24	19.14	19.21	19.02	19	1.5				
20	256QAM	50	50	17.99	18.14	17.95						
20	256QAM	100	0	18.18	18.25	18.02						
Channel												
Frequency (MHz)												
19	QPSK	1	0	19.68	19.72	19.60	20.5	0				
19	QPSK	1	37	19.62	19.67	19.52						
19	QPSK	1	74	19.43	19.53	19.44						
19	QPSK	36	0	19.68	19.63	19.58						
19	QPSK	36	20	19.62	19.65	19.50						
19	QPSK	36	39	19.51	19.57	19.48	20.5	0				
19	QPSK	75	0	19.61	19.68	19.64						
19	16QAM	1	0	19.64	19.68	19.65						
19	16QAM	1	37	19.55	19.71	19.62						
19	16QAM	1	74	19.29	19.41	19.15						
19	16QAM	36	0	19.60	19.60	19.49	20.5	0				
19	16QAM	36	20	19.58	19.62	19.63						
19	16QAM	36	39	19.55	19.64	19.50						
19	16QAM	75	0	19.44	19.69	19.45						
19	64QAM	1	0	19.61	19.70	19.63						
19	64QAM	1	37	19.41	19.54	19.46	20.5	0				
19	64QAM	1	74	19.50	19.67	19.51						
19	64QAM	36	0	19.60	19.73	19.61						
19	64QAM	36	20	19.51	19.74	19.63						
19	64QAM	36	39	19.55	19.64	19.50						
19	64QAM	75	0	19.63	19.67	19.51	20.5	0				
19	256QAM	1	0	19.16	19.25	19.06						
19	256QAM	1	37	19.03	19.26	17.95						
19	256QAM	1	74	19.02	19.12	17.91						
19	256QAM	50	0	19.10	19.17	18.91						
19	256QAM	50	20	19.07	19.09	17.96	19	1.5				
19	256QAM	50	39	17.90	18.07	17.90						
19	256QAM	75	0	19.05	19.10	18.04						
Channel												
Frequency (MHz)												
19	QPSK	1	0	19.63	19.68	19.61	20.5	0				
5	QPSK	1	25	19.57	19.68	19.51						
5	QPSK	1	49	19.51	19.55	19.44						
5	QPSK	25	0	19.60	19.60	19.52						
5	QPSK	25	12	19.55	19.59	19.51						
5	QPSK	25	25	19.49	19.62	19.43	20.5	0				
5	QPSK	50	0	19.56	19.62	19.56						
5	16QAM	1	0	19.54	19.65	19.58						
5	16QAM	1	25	19.59	19.72	19.62						
5	16QAM	1	49	19.52	19.68	19.41						
5	16QAM	25	0	19.58	19.60	19.49	20.5	0				
5	16QAM	25	12	19.63	19.58	19.64						
5	16QAM	25	25	19.54	19.68	19.57						
5	16QAM	50	0	19.50	19.59	19.50						
5	64QAM	1	0	19.67	19.68	19.58						
5	64QAM	1	25	19.47	19.65	19.45	20.5	0				
5	64QAM	1	49	19.58	19.61	19.49						
5	64QAM	25	0	19.53	19.63	19.61						
5	64QAM	25	12	19.45	19.74	19.58						
5	64QAM	25	25	19.51	19.59	19.50						
5	64QAM	50	0	19.60	19.60	19.59	20.5	0				
5	256QAM	1	0	19.18	19.27	19.06						
5	256QAM	1	25	19.05	19.16	17.95						
5	256QAM	1	49	19.01	19.15	18.91						
5	256QAM	25	0	19.12	19.15	18.91						
5	256QAM	25	12	19.05	19.18	17.91	19	1.5				
5	256QAM	25	25	17.86	19.00	17.83						
5	256QAM	50	0	19.08	19.10	17.95						
Channel												
Frequency (MHz)												
19	QPSK	1	0	19.63	19.68	19.61	20.5	0				
5	QPSK	1	12	19.59	19.60	19.50						
5	QPSK	1	24	19.52	19.57	19.44						
5	QPSK	12	0	19.66	19.66	19.52						
5	QPSK	12	7	19.57	19.60	19.49						
5	QPSK	12	13	19.49	19.61	19.40	20.5	0				
5	QPSK	25	0	19.54	19.65	19.59						
5	16QAM	1	0	19.58	19.68	19.57						
5	16QAM	1	12	19.61	19.67	19.46						
5	16QAM	1	24	19.41	19.47	19.35						
5	16QAM	12	0	19.61	19.67	19.46	20.5	0				
5	16QAM	12	7	19.67	19.66	19.58						
5	16QAM	12	13	19.50	19.67	19.62						
5	16QAM	25	0	19.51	19.67	19.45						
5	64QAM	1	0	19.63	19.76	19.65	20.5	0				
5	64QAM	1	12	19.45	19.65	19.42						
5	64QAM	1	24	19.49	19.68	19.51						
5	64QAM	12	0	19.54	19.70	19.58						
5	64QAM	12	7	19.52	19.69	19.58						
5	64QAM	12	13	19.56	19.59	19.57	20.5	0				
5	64QAM	25	0	19.52	19.60	19.57						
5	256QAM	1	0	19.15	19.25	18.02						
5	256QAM	1	12	19.02	19.17	18.02						
5	256QAM	1	24	18.02	18.07	18.00	19	1.5				
5	256QAM	12	0	19.13	19.12	18.11						
5	256QAM	12	7	19.04	19.13	17.92						
5	256QAM	12	13	17.89	19.05	17.82						
5	256QAM	25	0	19.04	19.17	17.93						
Channel												
Frequency (MHz)												
3	QPSK	1	0	19.65	19.70	19.53	20.5	0				
3	QPSK	1	8	19.60	19.68	19.55						
3	QPSK	1	14	19.51	19.63	19.39						
3	QPSK	8	0	19.63	19.68	19.56						
3	QPSK	8	4	19.57	19.61	19.55						
3	QPSK	8	7	19.54	19.62	19.40	20.5	0				
3	QPSK	15	0	19.49	19.64	19.59						
3	16QAM	1	0	19.59	19.70	19.65						
3	16QAM	1	8	19.63	19.70	19.64						
3	16QAM	1	14	19.26	19.49	19.33	20.5	0				
3	16QAM	8	0	19.63	19.70	19.64						
3	16QAM	8	4	19.58	19.67	19.53						
3	16QAM	8	7	19.45	19.64	19.50						
3	16QAM	15	0	19.48	19.58	19.45	20.5	0				
3	16QAM	1	0	19.58	19.68	19.58						
3	16QAM	1	8	19.64	19.69	19.47						
3	16QAM	1	14	19.47	19.67	19.47						
3	16QAM	8	0	19.62	19.63	19.53	20.5	0				
3	16QAM	8	4	19.52	19.67	19.58						
3	16QAM	8	7	19.48	19.68	19.51						
3	16QAM	15	0	19.11	19.11	17.98						
3	256QAM	1	0	19.02	19.21	18.00	19	1.5				
3	256QAM	1	14	19.07	19.12	17.98						
3	256QAM	1	28	18.04	18.04	17.92						
3	256QAM	8	4	19.07	19.10	17.97						
3	256QAM	8	7	17.89	18.09	17.81						
3	256QAM	15	0	18.12	18.12	18.00						
3	256QAM	30	0	19.09	19.10	19.01						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	19.64	19.68	19.57	20.5	0				
1.4	QPSK	1	1	19.62	19.66	19.57						
1.4	QPSK	1	5	19.49	19.55	19.41						
1.4	QPSK	1	9	19.45	19.50	19.41						
1.4	QPSK	3	0	19.58	19.59	19.47						
1.4	QPSK	3	3	19.49	19.53	19.45	20.5	0				
1.4	QPSK	1	0	19.53	19.66	19.57						
1.4	16QAM	1	3	19.58	19.68	19.58						
1.4	16QAM	1	9	19.47	19.58	19.45						
1.4	16QAM	3	0	19.52	19.67	19.54						
1.4	16QAM	3	3	19.59	19.59	19.58	20.5	0				
1.4	16QAM	1	0	19.64	19.64	19.54						
1.4	16QAM	1	3	19.67	19.72	19.58						
1.4	16QAM	1	9	19.41	19.63	19.41						
1.4	16QAM	1	6	19.55	19.63	19.53						
1.4	16QAM	3	0	19.52	19.70	19.56	20.5	0				
1.4	16QAM	3	3	19.59	19.57	19.57						
1.4	16QAM	3	9	19.21	19.28	19.18						
1.4	16QAM	1	0	19.10	19.19	17.98						
1.4	16QAM	1	3	19.02	19.12	17.98						
1.4	256QAM	1	0	19.08	19.20	18.00	19	1.5				
1.4	256QAM	1	3	19.02	19.10	17.96						
1.4	256QAM	1	9	18.06	18.06	17.92						
1.4	256QAM	3	0	19.09	19.10	19.01						
1.4	256QAM	3	3	18.06	18.06	17.92						
1.4	256QAM	3	9	17.99	18.09	17.91						
1.4	256QAM	9	0	19.08	19.10	19.01						

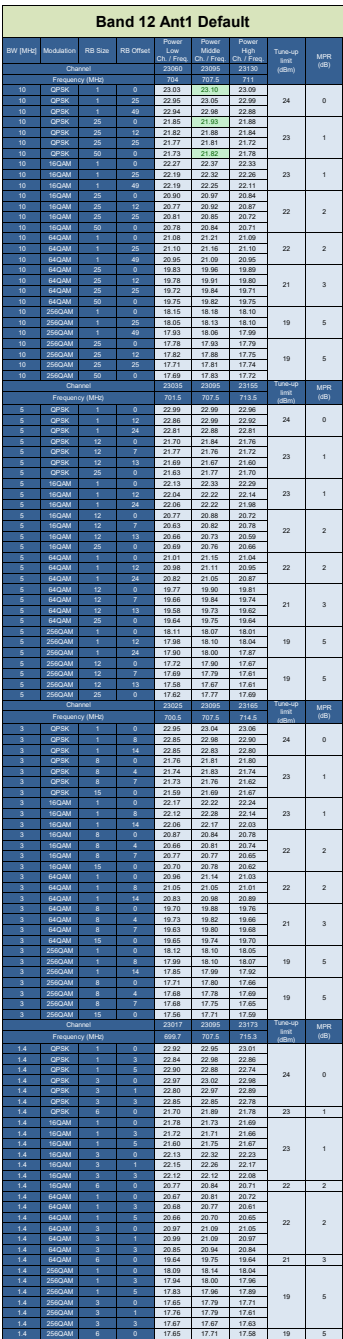


Band 38 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37950	38050	38150			
20	QPSK	1	0	23.15	23.15	23.14	24	0	
20	QPSK	1	49	23.02	23.11	23.04			
20	QPSK	1	99	22.96	23.04	22.98			
20	QPSK	50	0	22.14	22.19	22.16			
20	QPSK	50	24	22.08	22.14	22.01	23	1	
20	QPSK	50	49	22.02	22.13	21.97			
20	QPSK	100	0	22.11	22.13	22.09			
20	16QAM	1	0	22.06	22.18	21.94			
20	16QAM	1	49	22.02	22.13	21.97	23	1	
20	16QAM	1	99	22.00	22.19	21.96			
20	16QAM	1	0	21.99	22.02	21.99			
20	16QAM	50	24	21.97	22.18	20.99			
20	16QAM	50	50	20.98	21.99	20.93	22	2	
20	16QAM	100	0	21.96	22.17	21.99			
20	16QAM	1	0	20.99	20.95	20.97			
20	16QAM	1	49	20.97	20.96	20.95			
20	16QAM	50	0	20.99	20.95	20.97	21	3	
20	16QAM	50	24	20.13	20.18	20.09			
20	16QAM	50	50	20.03	20.11	19.92			
20	16QAM	100	0	20.01	20.14	19.97			
20	256QAM	1	0	18.09	18.13	18.03	19	5	
20	256QAM	1	49	18.04	18.08	18.00			
20	256QAM	1	99	17.95	18.01	17.90			
20	256QAM	50	0	18.16	18.24	18.09			
20	256QAM	50	24	18.16	18.19	18.08	19	5	
20	256QAM	50	50	18.06	18.12	17.92			
20	256QAM	100	0	18.02	18.10	17.95			
20	256QAM	100	0	17.925	18.005	18.115			
Channel									
Frequency (MHz)				37975	38075	38175	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	23.03	23.03	23.02	24	0	
15	QPSK	1	37	22.96	23.06	22.98			
15	QPSK	1	74	22.94	22.90	22.94			
15	QPSK	36	0	22.05	22.11	22.11			
15	QPSK	36	20	22.01	22.08	21.93	23	1	
15	QPSK	36	38	22.01	22.08	21.97			
15	QPSK	75	0	22.03	22.02	22.03			
15	16QAM	1	0	22.02	22.14	21.85			
15	16QAM	1	37	21.90	22.00	21.78	23	1	
15	16QAM	1	74	21.90	22.01	21.81			
15	16QAM	36	0	21.00	21.11	20.86			
15	16QAM	36	20	20.97	21.09	20.90			
15	16QAM	36	38	20.93	21.04	20.76	22	2	
15	16QAM	75	0	20.94	21.13	20.85			
15	16QAM	75	0	20.91	20.91	20.91			
15	16QAM	1	37	20.79	20.79	20.61			
15	256QAM	1	74	20.63	20.76	20.54	21	3	
15	256QAM	36	0	20.60	20.13	19.94			
15	256QAM	36	20	19.95	20.11	19.95			
15	256QAM	36	38	19.97	20.00	19.95			
15	256QAM	75	0	19.97	20.00	19.95	19	5	
15	256QAM	1	0	17.95	18.02	17.98			
15	256QAM	1	37	17.95	18.02	17.98			
15	256QAM	36	39	17.99	18.06	17.85			
15	256QAM	36	20	18.08	18.14	17.98			
Channel									
Frequency (MHz)				37975	38075	38175	Tune-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	23.03	23.03	23.02	24	0	
10	QPSK	1	25	22.92	22.99	22.90			
10	QPSK	1	49	22.90	22.87	22.89			
10	QPSK	25	0	22.06	22.07	22.06			
10	QPSK	25	12	21.96	22.05	21.89	23	1	
10	QPSK	25	25	21.96	22.07	21.87			
10	HQAM	1	0	21.96	22.14	21.87			
10	HQAM	1	25	21.99	22.03	21.74			
10	HQAM	1	49	21.98	21.99	21.87	22	2	
10	HQAM	25	0	21.01	21.08	20.93			
10	HQAM	25	12	21.01	21.11	20.86			
10	HQAM	25	25	20.90	21.01	20.80			
10	HQAM	50	0	20.98	21.03	20.88	22	2	
10	HQAM	50	0	20.94	21.01	20.86			
10	HQAM	50	0	20.92	21.01	20.86			
10	HQAM	1	24	20.79	20.79	20.60			
10	HQAM	1	49	20.62	20.75	20.50	21	3	
10	HQAM	25	0	19.94	20.15	20.00			
10	HQAM	25	12	20.01	20.03	20.03			
10	HQAM	25	25	19.92	20.06	19.79			
10	HQAM	50	0	19.94	20.10	19.92	19	5	
10	256QAM	1	0	17.95	18.09	17.90			
10	256QAM	1	25	17.97	18.05	17.92			
10	256QAM	1	49	17.81	17.87	17.85			
10	256QAM	25	0	17.98	18.17	17.86	19	5	
10	256QAM	25	12	18.05	18.08	18.04			
10	256QAM	25	25	17.97	18.01	17.95			
10	256QAM	50	0	18.48	18.50	18.33			

Band 41 Ant0 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Time up limit (dBm)	MFR (dB)
Channel										
Frequency (MHz)				38970	40185	40620	41005	41480		
20	QPSK	1	0	22.95	23.02	23.13	23.05	23.12	24	0
20	QPSK	1	49	23.15	23.10	23.19	23.05	23.11		
20	QPSK	1	99	23.00	23.02	23.12	23.02	23.01		
20	QPSK	50	0	22.12	22.17	22.20	22.19	22.19		
20	QPSK	50	24	22.14	22.08	22.21	22.08	22.07	23	1
20	QPSK	50	49	22.01	22.11	22.10	22.04	22.01		
20	QPSK	100	0	22.10	22.15	22.22	22.16	22.09		
20	16QAM	1	0	22.08	22.10	22.15	22.10	22.05		
20	16QAM	50	24	22.01	22.10	22.10	22.04	22.01	23	1
20	16QAM	50	49	22.01	22.01	22.10	22.04	22.01		
20	16QAM	1	99	21.98	21.95	22.03	21.91	21.96		
20	16QAM	50	24	21.13	21.12	21.26	21.00	21.13		
20	16QAM	50	24	21.17	21.16	21.21	21.15	21.15	22	2
20	16QAM	50	50	21.08	21.07	21.14	21.04	21.06		
20	16QAM	100	0	21.09	21.16	21.09	21.00	21.05		
20	64QAM	1	0	21.02	20.94	21.05	20.97	21.02		
20	64QAM	1	49	20.91	20.85	21.03	20.89	20.98	22	2
20	64QAM	1	99	20.90	20.85	20.96	20.85	20.93		
20	64QAM	50	24	20.19	20.11	20.24	20.13	20.15		
20	64QAM	50	24	20.06	20.04	20.19	20.14	20.15		
20	64QAM	50	50	19.98	20.05	20.12	20.04	20.08	21	3
20	64QAM	100	0	20.11	20.10	20.19	20.11	20.10		
20	256QAM	1	0	18.12	18.22	18.28	18.14	18.21		
20	256QAM	1	49	18.18	18.18	18.23	18.08	18.08		
20	256QAM	1	99	18.12	18.11	18.16	18.06	18.12	19	5
20	256QAM	50	0	18.16	18.06	18.22	18.10	18.12		
20	256QAM	50	24	18.06	18.11	18.17	18.08	18.12		
20	256QAM	50	50	18.00	17.88	18.10	17.88	18.01		
Channel										
Frequency (MHz)				38970	40173	40620	41008	41515	Time up limit (dBm)	MFR (dB)
15	QPSK	1	0	22.93	22.93	23.03	22.97	23.02	24	0
15	QPSK	1	37	22.84	22.96	23.06	22.83	22.95		
15	QPSK	1	74	22.85	22.86	23.07	22.88	22.90		
15	QPSK	36	0	22.03	22.03	22.22	22.00	22.18		
15	QPSK	36	20	22.06	21.95	22.16	21.94	21.97	23	1
15	QPSK	36	38	22.06	21.95	22.16	21.94	21.97		
15	QPSK	75	0	22.08	22.03	22.17	22.11	21.95	23	1
15	16QAM	1	0	22.02	22.04	22.09	22.04	21.96		
15	16QAM	1	37	22.03	22.03	22.19	21.98	21.98		
15	16QAM	1	74	21.87	21.81	21.89	21.77	21.82		
15	16QAM	36	0	21.00	20.97	21.21	21.01	21.04	22	2
15	16QAM	36	20	21.02	21.06	21.15	21.01	21.05		
15	16QAM	36	38	21.02	20.93	21.00	20.97	21.01		
15	16QAM	36	74	20.95	20.91	21.06	20.97	21.01		
15	64QAM	1	0	20.90	20.80	20.93	20.87	20.96	22	2
15	64QAM	1	37	20.84	20.85	20.94	20.87	20.95		
15	64QAM	1	74	20.84	20.84	20.93	20.78	20.75		
15	64QAM	36	0	20.12	20.07	20.18	20.09	20.07		
15	64QAM	36	20	20.03	20.00	20.12	20.08	20.10	21	3
15	64QAM	36	38	20.03	20.00	20.12	20.08	20.10		
15	64QAM	36	74	19.97	19.99	20.24	19.97	20.04		
15	64QAM	75	0	19.97	19.99	20.24	19.97	20.04		
15	256QAM	1	0	17.94	18.05	18.10	17.92	17.94	19	5
15	256QAM	1	37	18.02	18.05	18.10	17.94	17.98		
15	256QAM	1	74	18.02	18.05	18.10	17.94	17.98		
15	256QAM	36	0	18.02	18.03	18.08	17.92	17.97		
15	256QAM	36	20	18.02	18.03	18.08	17.92	17.97		19
15	256QAM	36	38	17.86	17.88	17.86	17.82	17.87		
15	256QAM	75	0	17.86	17.88	17.86	17.82	17.86		
Channel										
Frequency (MHz)				38970	40166	40620	41000	41450	Time up limit (dBm)	MFR (dB)
20	QPSK	1	0	22.96	22.97	23.04	22.97	23.03	24	0
20	QPSK	1	25	23.01	22.98	23.06	22.97	23.01		
20	QPSK	1	50	23.04	22.94	23.07	22.98	23.00		
20	QPSK	25	0	22.01	22.00	22.20	22.13	22.09		
20	QPSK	25	12	22.07	21.95	22.14	21.98	22.07	23	1
20	QPSK	25	37	22.07	21.95	22.14	21.98	22.07		
20	QPSK	50	0	22.05	22.10	22.13	22.05	22.19	23	1
20	16QAM	1	0	22.01	22.02	22.07	22.01	21.94		
20	16QAM	1	25	22.01	22.01	22.19	21.98	21.98		
20	16QAM	1	49	21.90	21.86	21.95	21.85	21.93		
20	16QAM	25	0	21.08	21.10	21.21	21.01	21.09	22	2
20	16QAM	25	12	21.08	21.10	21.21	21.01	21.09		
20	16QAM	25	37	20.99	20.99	21.10	20.91	20.92		
20	16QAM	50	0	20.99	20.99	21.10	20.88	20.94		
20	64QAM	1	0	20.90	20.79	20.99	20.87	20.90	22	2
20	64QAM	1	25	20.79	20.81	20.86	20.84	20.92		
20	64QAM	1	49	20.79	20.79	20.86	20.84	20.92		
20	64QAM	25	0	20.09	20.02	20.13	20.10	20.11		
20	64QAM	25	12	19.96	19.97	20.12	20.09	20.05	21	3
20	64QAM	25	37	19.96	19.96	20.12	20.09	20.05		
20	64QAM	50	0	20.05	20.05	20.13	19.98	20.01		
20	64QAM	50	1	19.98	19.98	20.13	19.98	20.01		
20	256QAM	1	0	18.08	18.10	18.13	18.02	17.96	19	5
20	256QAM	1	25	18.07	18.07	18.06	17.95	18.04		
20	256QAM	1	50	18.04	18.04	18.07	17.92	18.02		
20	256QAM	25	12	17.91	18.08	18.02	17.94	18.07		
20	256QAM	25	37	17.86	17.83	18.02	17.94	17.86		19
20	256QAM	50	0	17.86	17.88	17.87	17.82	17.86		
Channel										
Frequency (MHz)				38970	40166	40620	41000	41450	Time up limit (dBm)	MFR (dB)
20	QPSK	1	0	22.96	22.97	23.13	23.04	23.08	24	0
20	QPSK	1	12	23.08	23.01	23.14	22.83	23.03		
20	QPSK	1	24	23.08	23.01	23.14	22.83	23.03		
20	QPSK	12	0	22.05	22.05	22.22	22.15	22.13		
20	QPSK	12	7	22.01	22.04	22.14	22.03	22.19	23	1
20	QPSK	12	14	22.08	22.04	22.09	21.92	22.03		
20	QPSK	25	0	22.14	22.04	22.15	22.07	22.03	23	1
20	QPSK	25	0	21.94	22.07	22.04	21.97	21.97		
20	16QAM	1	12	21.98	21.99	22.06	21.92	21.96		
20	16QAM	1	24	21.90	21.81	21.95	21.77	21.91		
20	16QAM	12	7	21.08	21.04	21.13	21.01	21.03	22	2
20	16QAM	12	13	20.95	20.94	21.07	20.88	20.93		
20	16QAM	25	0	21.02	21.03	21.09	20.95	21.00		
20	64QAM	1	0	20.94	20.80	21.03	20.80	20.87		
20	64QAM	1	12	20.82	20.91	20.91	20.77	20.92	22	2
20	64QAM	1	24	20.78	20.81	20.91	20.77	20.92		
20	64QAM	12	7	19.96	19.99	20.11	20.91	20.03		
20	64QAM	25	0	20.10	20.05	20.18	20.08	20.03		
20	64QAM	25	7	19.96	19.99	20.11	20.91	20.03	21	3
20	64QAM	25	14	19.96	19.99	20.11	20.91	20.03		
20	64QAM	25	20	19.91	20.06	20.08	19.96	20.03		
20	64QAM	25	26	19.88	19.97	20.12	19.96	20.03		
20	256QAM	1	0	18.02	18.10	18.13	18.02	17.96	19	5
20	256QAM	1	12	18.12	18.14	18.11	17.94	17.96		
20	256QAM	1	24	18.00	18.01	18.12	18.01	18.03		
20	256QAM	12	7	17.88	17.89	18.10	17.82	17.89		
20	256QAM	12	7	17.86	18.00	18.04	18.04	18.04		19
20	256QAM	12	13	17.87	17.82	18.00	17.88	17.94		



Band 2 Ant1 EC16												
BW [MHz]	Modulation	RB Size	RB Offset	Power Mod Ch / Freq	Power Hsp Ch / Freq	Power Hsp Ch / Freq	Turn-up time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	19.12	19.12	19.15			0			
20	QPSK	1	49	19.82	19.82	19.85						
20	QPSK	1	99	19.88	19.81	19.76			0			
20	QPSK	50	0	19.04	19.12	19.04						
20	QPSK	50	24	19.88	19.82	19.82			0			
20	QPSK	50	50	19.90	19.87	19.84						
20	QPSK	100	0	19.05	19.07	19.04			0			
20	QPSK	100	50	19.95	19.92	19.89						
20	16QAM	1	49	19.91	19.92	19.89			0			
20	16QAM	50	99	19.85	19.89	19.77						
20	16QAM	50	50	19.89	19.87	19.81			0			
20	16QAM	50	24	19.86	19.89	19.84						
20	16QAM	50	50	19.90	19.88	19.79			0			
20	16QAM	100	0	19.02	19.07	19.07						
20	256QAM	1	49	19.18	19.22	19.14			19	1		
20	256QAM	1	99	19.05	19.15	19.00						
20	256QAM	50	50	19.91	19.94	19.92			19	1		
20	256QAM	50	24	19.82	19.89	19.87						
20	256QAM	50	50	19.82	19.13	19.10			19	1		
20	256QAM	100	0	19.04	19.21	19.08						
20	256QAM	100	0	19.04	19.21	19.08						
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.04	19.12	19.07			0			
15	QPSK	1	49	19.83	19.89	19.79						
15	QPSK	1	99	19.76	19.86	19.79			0			
15	QPSK	36	0	19.91	19.04	19.97						
15	QPSK	36	24	19.82	19.89	19.77			0			
15	QPSK	36	39	19.76	19.88	19.75						
15	QPSK	75	0	19.81	19.04	19.91			0			
15	QPSK	75	0	19.86	19.86	19.80						
15	16QAM	1	37	19.83	19.91	19.77			0			
15	16QAM	36	74	19.76	19.88	19.80						
15	16QAM	36	39	19.76	19.88	19.80			0			
15	16QAM	36	20	19.90	19.85	19.80						
15	16QAM	75	0	19.81	19.85	19.80			0			
15	16QAM	75	0	19.93	19.90	19.81						
15	64QAM	1	0	19.02	19.07	19.06			0			
15	64QAM	1	99	19.87	19.94	19.92						
15	64QAM	1	74	19.90	19.92	19.91			0			
15	64QAM	36	0	19.79	19.84	19.89						
15	64QAM	36	24	19.80	19.88	19.86			0			
15	64QAM	36	39	19.74	19.90	19.75						
15	64QAM	75	0	19.85	19.82	19.82			19	0		
15	256QAM	1	37	19.07	19.09	19.08						
15	256QAM	1	74	17.96	18.05	17.93			19	1		
15	256QAM	36	24	19.81	19.84	19.82						
15	256QAM	36	20	17.94	18.03	17.99			19	1		
15	256QAM	36	39	17.83	17.87	17.88						
15	256QAM	75	0	19.10	19.07	19.08			19	1		
15	256QAM	75	0	19.13	19.10	19.09						
Channel												
Frequency (MHz)												
10	QPSK	1	0	19.02	19.02	19.05			0			
10	QPSK	1	25	19.75	19.87	19.78						
10	QPSK	1	49	19.80	19.88	19.71			0			
10	QPSK	1	99	19.87	19.94	19.82						
10	QPSK	25	12	19.73	19.89	19.80			0			
10	QPSK	25	25	19.81	19.91	19.76						
10	QPSK	50	0	19.07	19.07	19.06			0			
10	QPSK	50	0	19.80	19.99	19.99						
10	16QAM	1	25	19.81	19.85	19.86			0			
10	16QAM	1	49	19.71	19.88	19.86						
10	16QAM	25	0	19.75	19.92	19.85			0			
10	16QAM	25	12	19.87	19.94	19.85						
10	16QAM	50	0	19.78	19.88	19.85			0			
10	16QAM	50	0	19.83	19.90	19.86						
10	64QAM	1	0	19.06	19.06	19.02			0			
10	64QAM	1	0	19.76	19.87	19.83						
10	64QAM	25	0	19.78	19.83	19.73			0			
10	64QAM	25	0	19.82	19.85	19.82						
10	64QAM	25	25	19.70	19.87	19.79			0			
10	64QAM	50	0	19.88	19.80	19.76						
10	256QAM	1	25	19.15	19.13	19.14			19	1		
10	256QAM	1	25	19.02	19.10	19.11						
10	256QAM	1	49	19.02	19.06	19.07			19	1		
10	256QAM	1	49	19.02	19.06	19.07						
10	256QAM	25	12	17.94	18.07	18.01			19	1		
10	256QAM	25	12	17.85	17.96	17.92						
10	256QAM	25	25	17.85	17.96	17.92			19	1		
10	256QAM	25	25	17.85	17.96	17.92						
10	256QAM	50	0	19.09	19.06	19.06			19	1		
10	256QAM	50	0	19.09	19.06	19.06						
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.02	19.10	19.06			0			
5	QPSK	1	12	19.83	19.01	19.99						
5	QPSK	1	24	19.74	19.83	19.67			0			
5	QPSK	12	14	19.78	19.88	19.69						
5	QPSK	12	7	19.75	19.87	19.79			0			
5	QPSK	12	13	19.79	19.88	19.71						
5	QPSK	25	0	19.81	19.85	19.82			0			
5	QPSK	25	0	19.82	19.85	19.82						
5	16QAM	1	0	19.81	19.99	19.92			0			
5	16QAM	1	12	19.85	19.89	19.77						
5	16QAM	12	0	19.78	19.88	19.85			0			
5	16QAM	12	7	19.83	19.96	19.89						
5	16QAM	25	0	19.73	19.83	19.73			0			
5	16QAM	25	0	19.92	19.90	19.84						
5	64QAM	1	0	19.07	19.05	19.86			0			
5	64QAM	1	0	19.81	19.89	19.79						
5	64QAM	1	24	19.72	19.81	19.81			0			
5	64QAM	12	7	19.78	19.82	19.76						
5	64QAM	25	0	19.81	19.89	19.80			0			
5	64QAM	25	0	19.90	19.88	19.83						
5	64QAM	12	13	19.76	19.89	19.73			0			
5	64QAM	12	13	19.80	19.89	19.83						
5	64QAM	25	0	19.80	19.89	19.83			0			
5	64QAM	25	0	19.13	19.12	19.15						
5	256QAM	1	12	19.08	19.12	19.09			19	1		
5	256QAM	1	24	17.96	17.99	17.99						
5	256QAM	12	13	19.81	19.14	19.02			19	1		
5	256QAM	12	13	17.96	17.99	17.99						
5	256QAM	25	7	17.96	17.99	17.99			19	1		
5	256QAM	25	7	17.96	17.99	17.99						
5	256QAM	15	0	19.02	19.07	19.04			19	1		
5	256QAM	15	0	19.02	19.07	19.04						
Channel												
Frequency (MHz)												
3	QPSK	1	0	19.02	19.10	19.06			0			
3	QPSK	1	12	19.83	19.01	19.99						
3	QPSK	1	24	19.74	19.83	19.67			0			
3	QPSK	12	14	19.78	19.88	19.69						
3	QPSK	12	7	19.75	19.87	19.79			0			
3	QPSK	12	13	19.79	19.88	19.71						
3	QPSK	25	0	19.81	19.85	19.82			0			
3	QPSK	25	0	19.82	19.85	19.82						
3	16QAM	1	0	19.81	19.99	19.92			0			
3	16QAM	1	12	19.85	19.89	19.77						
3	16QAM	12	0	19.78	19.88	19.85			0			
3	16QAM	12	7	19.83	19.96	19.89						
3	16QAM	25	0	19.73	19.83	19.73			0			
3	16QAM	25	0	19.92	19.90	19.84						
3	64QAM	1	0	19.07	19.05	19.86			0			
3	64QAM	1	0	19.81	19.89	19.79						
3	64QAM	1	24	19.72	19.81	19.81			0			
3	64QAM	12	7	19.78	19.82	19.76						
3	64QAM	25	0	19.81	19.89	19.80			0			
3	64QAM	25	0	19.90	19.88	19.83						
3	64QAM	12	13	19.76	19.89	19.73			0			
3	64QAM	12	13	19.80	19.89	19.83						
3	64QAM	25	0	19.80	19.89	19.83			0			
3	64QAM	25	0	19.13	19.12	19.15						
3	256QAM	1	12	19.08	19.12	19.09			19	1		
3	256QAM	1	24	17.96	17.99	17.99						
3	256QAM	12	13	19.81	19.14	19.02			19	1		
3	256QAM	12	13	17.96	17.99	17.99						
3	256QAM	25	7	17.96	17.99	17.99			19	1		
3	256QAM	25	7	17.96	17.99	17.99						
3	256QAM	15	0	19.02	19.07	19.04			19	1		
3	256QAM	15	0	19.02	19.07	19.04						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	19.02	19.08	19.03			0			
1.4	QPSK	1	12	19.83	19.01	19.99						
1.4	QPSK	1	24	19.74	19.83	19.67			0			
1.4	QPSK	12	14	19.78	19.88	19.69						
1.4	QPSK	12	7	19.75	19.87	19.79			0			
1.4	QPSK	12	13	19.79	19.88	19.71						
1.4	QPSK	25	0	19.80	19.86	19.82			0			
1.4	QPSK	25	0	19.81	19.86	19.82						
1.4	16QAM	1	0	19.81	19.96	19.92			0			
1.4	16QAM	1	12									



Band 14 Ant1 Default									
BR [MHz]	Modulation	PRB Size	PRB Offset	Power [dBm] CR=15	Power [dBm] CR=18	Power [dBm] CR=20	Turn-on rate (dB)	MFR (dB)	
Channel				23300					
Frequency [MHz]				23300					
10	QPSK	1	0	22.07					
10	QPSK	1	25	22.62					
10	QPSK	25	0	21.83			24	0	
10	QPSK	25	60	21.78					
10	QPSK	25	12	21.78			24	1	
10	QPSK	25	18	21.78					
10	QPSK	50	0	21.78			24	1	
10	16QAM	1	0	21.91					
10	16QAM	1	25	22.03					
10	16QAM	1	49	22.03					
10	16QAM	25	0	21.00					
10	16QAM	25	60	20.95			22	2	
10	16QAM	25	12	20.95					
10	16QAM	25	18	20.95					
10	16QAM	50	0	20.88					
10	16QAM	50	60	20.88					
10	16QAM	50	12	20.88					
10	16QAM	1	25	21.03			22	2	
10	16QAM	1	49	21.03					
10	16QAM	25	0	20.96					
10	16QAM	25	60	20.96			21	3	
10	16QAM	25	12	20.96					
10	16QAM	25	18	20.96					
10	16QAM	50	0	18.07					
10	256QAM	1	25	18.02			19	5	
10	256QAM	1	49	18.02					
10	256QAM	25	0	17.99					
10	256QAM	25	12	17.94			19	5	
10	256QAM	25	18	17.87					
10	256QAM	50	0	17.90					
Channel				23305					
Frequency [MHz]				23305					
5	QPSK	1	0	22.08	22.08	22.05			
5	QPSK	1	12	22.83	22.85	22.80			
5	QPSK	25	0	21.96	21.92	21.90			24
5	QPSK	12	0	21.75	21.77	21.75			
5	QPSK	12	7	21.64	21.65	21.43			
5	QPSK	12	14	21.65	21.67	21.68			21
5	QPSK	25	6	21.65	21.75	21.73			
5	16QAM	1	0	22.01	22.03	21.98			
5	16QAM	1	12	22.06	22.03	22.09			23
5	16QAM	1	24	22.08	22.09	22.03			
5	16QAM	12	0	20.90	20.96	20.86			
5	16QAM	12	7	20.86	20.96	20.88			
5	16QAM	12	14	20.76	20.75	20.73			22
5	16QAM	25	0	20.74	20.78	20.78			
5	16QAM	25	6	21.00	21.02	21.06			
5	16QAM	1	12	20.94	20.95	20.91			22
5	16QAM	1	24	20.87	20.93	20.92			
5	16QAM	12	0	19.85	19.91	19.85			21
5	16QAM	12	7	19.85	19.91	19.97			
5	16QAM	12	14	19.83	19.86	19.79			
5	16QAM	25	0	19.79	19.79	19.77			
5	256QAM			17.96	17.97	17.95			
5	256QAM	1	12	17.89	17.92	17.89			19
5	256QAM	25	0	17.86	17.86	17.83			
5	256QAM	12	0	17.93	17.97	17.93			
5	256QAM	12	7	17.83	17.91	17.89			
5	256QAM	12	14	17.83	17.91	17.84			19
5	256QAM	25	0	17.76	17.86	17.80			

Band 17 Ant1 Default									
BM [MHz]	Modulation	PRB Size	PRB Offset	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Turn-on [dBm]	MFR [dB]
Channel				23760	23760	23760	23760		
Frequency [MHz]				1	1	1	1		
10	SPRS	1	0	22.85	22.87	22.85			
10	SPRS	1	25	22.79	22.82	22.88		24	0
10	SPRS	25	0	22.65	22.67	22.65			
10	SPRS	25	25	21.76	21.86	21.84			
10	SPRS	24	12	21.73	21.81	21.73			
10	SPRS	24	37	21.62	21.74	21.68		23	1
10	SPRS	50	0	21.69	21.73	21.72			
10	SPRS	1	0	21.90	21.95	21.88			
10	SPRS	1	25	21.83	21.87	21.77		23	1
10	SPRS	1	49	21.77	21.83	21.81			
10	SPRS	25	0	20.78	20.87	20.77			
10	SPRS	25	25	20.67	20.75	20.64		22	2
10	SPRS	50	0	20.68	20.74	20.70			
10	SPRS	50	25	20.52	20.55	20.52			
10	SPRS	1	25	20.56	20.59	20.54		22	2
10	SPRS	1	49	20.34	20.32	20.31			
10	SPRS	24	12	19.85	19.91	19.85			
10	SPRS	24	37	19.85	19.76	19.65		21	3
10	SPRS	25	25	19.81	19.69	19.62			
10	SPRS	50	0	19.76	19.76	19.66			
10	25QAM	1	0	17.86	18.00	17.92			
10	25QAM	1	25	17.89	17.95	17.83		19	5
10	25QAM	1	49	17.86	17.86	17.60			
10	25QAM	24	0	17.80	17.80	17.80			
10	25QAM	24	12	17.62	17.75	17.67		19	5
10	25QAM	24	37	17.48	17.44	17.44			
10	25QAM	50	0	17.65	17.73	17.68			
Channel				23765	23765	23765	23765		
Frequency [MHz]				1	1	1	1	Turn-on [dBm]	MFR [dB]
5	SPRS	1	0	22.76	22.83	22.81			
5	SPRS	1	12	22.65	22.79	22.68			
5	SPRS	1	25	22.62	22.68	22.57			
5	SPRS	12	0	21.62	21.75	21.74		24	0
5	SPRS	12	7	21.67	21.72	21.67			
5	SPRS	12	19	21.67	21.67	21.67		23	1
5	SPRS	24	0	21.57	21.67	21.65			
5	SPRS	1	0	21.83	21.85	21.78			
5	SPRS	1	12	21.82	21.81	21.77		23	1
5	SPRS	1	24	21.52	21.88	21.87			
5	SPRS	12	0	20.74	20.78	20.71			
5	SPRS	12	19	20.77	20.73	20.73		22	2
5	SPRS	12	19	20.55	20.70	20.65			
5	SPRS	25	0	20.54	20.60	20.63			
5	SPRS	25	12	20.40	20.50	20.44			
5	SPRS	1	12	20.85	20.91	20.79		22	0
5	SPRS	1	24	20.81	20.84	20.68			
5	SPRS	12	12	19.77	19.81	19.66			
5	SPRS	12	12	19.54	19.64	19.54			
5	SPRS	12	13	19.46	19.58	19.51			
5	SPRS	24	0	19.49	19.59	19.57			
5	25QAM	1	0	17.75	17.92	17.80			
5	25QAM	1	12	17.78	17.85	17.74			
5	25QAM	1	25	17.75	17.75	17.73			
5	25QAM	12	0	17.80	17.70	17.85			
5	25QAM	12	7	17.49	17.64	17.64		19	5
5	25QAM	12	19	17.45	17.50	17.50			
5	25QAM	25	0	17.52	17.68	17.59			

Band 25 Ant1 ECI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.15	19.23	19.19				
20	QPSK	1	49	19.04	19.11	19.01	20	0		
20	QPSK	1	99	19.08	19.09	19.01				
20	QPSK	50	0	19.13	19.10	19.11				
20	QPSK	50	24	19.03	19.04	19.03				
20	QPSK	50	50	19.02	19.08	19.02	20	0		
20	QPSK	100	0	19.08	19.14	19.08				
20	16QAM	1	0	19.00	19.04	19.00				
20	16QAM	1	99	19.00	19.09	19.02	20	0		
20	16QAM	50	24	19.09	19.07	19.06				
20	16QAM	50	50	19.06	19.03	19.02	20	0		
20	16QAM	100	0	19.00	19.02	19.01				
20	256QAM	1	49	19.09	19.12	19.06	19	1		
20	256QAM	1	99	19.00	19.11	17.09				
20	256QAM	50	24	19.07	19.07	17.09				
20	256QAM	50	50	17.03	16.00	17.03	19	1		
20	256QAM	100	0	19.06	19.16	16.03				
Channel										
Frequency (MHz)										
16	QPSK	1	0	19.04	19.14	19.12				
16	QPSK	1	37	19.06	19.01	19.09	20	0		
16	QPSK	1	74	19.03	19.04	19.08				
16	QPSK	36	0	19.08	19.15	19.02				
16	QPSK	36	25	19.00	19.06	19.05	20	0		
16	QPSK	36	39	19.06	19.02	19.05				
16	QPSK	75	0	19.01	19.08	19.09				
16	16QAM	1	0	19.03	19.03	19.08				
16	16QAM	1	37	19.00	19.06	19.05	20	0		
16	16QAM	1	74	19.00	19.02	19.14				
16	16QAM	36	0	19.07	19.00	19.00				
16	16QAM	36	20	19.02	19.04	19.10	20	0		
16	16QAM	36	25	19.00	19.03	19.06				
16	16QAM	75	0	19.06	19.03	19.06				
16	64QAM	1	0	19.09	19.12	19.08				
16	64QAM	1	37	19.06	19.01	19.09	20	0		
16	64QAM	1	74	19.01	19.01	19.15				
16	64QAM	36	0	19.04	19.05	19.07				
16	64QAM	36	25	19.01	19.03	19.07	20	0		
16	64QAM	36	39	19.16	19.03	19.15				
16	64QAM	75	0	19.07	16.00	19.06				
16	256QAM	1	0	19.05	19.05	19.09				
16	256QAM	1	37	17.01	16.05	16.09	19	1		
16	256QAM	1	74	17.05	16.07	17.03				
16	256QAM	36	25	17.07	16.07	17.03				
16	256QAM	36	20	17.05	17.05	17.00				
16	256QAM	36	39	17.05	17.02	17.04	19	1		
16	256QAM	75	0	16.00	16.06	17.02				
Channel										
Frequency (MHz)										
26060	26349	26600					Turn-up time (sec)	MFR (dB)		
16	QPSK	1	0	19.05	19.12	19.10				
16	QPSK	1	25	19.07	19.04	19.05	20	0		
16	QPSK	1	49	19.04	19.01	19.01				
16	QPSK	12	0	19.03	19.03	19.06				
16	QPSK	25	12	19.01	19.03	19.10				
16	QPSK	25	26	19.01	19.06	19.17	20	0		
16	QPSK	36	0	19.06	19.09	19.06				
16	16QAM	1	0	19.06	19.07	19.04				
16	16QAM	1	25	19.07	19.08	19.05	20	0		
16	16QAM	1	49	19.10	19.07	19.07				
16	16QAM	25	0	19.06	19.05	19.07				
16	16QAM	25	12	19.00	19.03	19.07	20	0		
16	16QAM	36	0	19.03	19.13	19.13				
16	16QAM	50	0	19.02	19.01	19.01				
16	64QAM	1	0	19.09	19.11	19.05				
16	64QAM	1	24	19.06	16.02	16.10	20	0		
16	64QAM	1	49	19.13	19.09	19.17				
16	64QAM	25	0	19.03	19.02	19.01				
16	64QAM	25	12	19.05	19.03	19.10	20	0		
16	64QAM	50	0	19.09	19.01	19.10				
16	256QAM	1	0	19.03	19.13	19.13				
16	256QAM	1	25	17.08	16.10	16.02	19	1		
16	256QAM	1	49	17.07	16.04	17.06				
16	256QAM	25	0	17.06	17.05	17.05				
16	256QAM	25	12	17.03	16.00	17.08	19	1		
16	256QAM	25	25	17.07	17.04	17.06				
16	256QAM	50	0	17.07	16.04	17.08				
Channel										
Frequency (MHz)										
26065	26349	26605					Turn-up time (sec)	MFR (dB)		
5	QPSK	1	0	19.05	19.12	19.10				
5	QPSK	1	12	19.03	19.09	19.01	20	0		
5	QPSK	1	24	19.01	19.05	19.02				
5	QPSK	12	0	19.03	19.03	19.06				
5	QPSK	12	7	19.09	19.09	19.09				
5	QPSK	12	13	19.05	19.00	19.03	20	0		
5	QPSK	26	0	19.08	19.05	19.06				
5	16QAM	1	0	19.06	19.06	19.03				
5	16QAM	1	12	19.06	19.05	19.04	20	0		
5	16QAM	1	24	19.06	19.01	19.12				
5	16QAM	12	0	19.10	19.02	19.08				
5	16QAM	12	7	19.06	19.04	19.02	20	0		
5	16QAM	12	13	19.13	19.04	19.13				
5	16QAM	25	0	19.05	19.09	19.00				
5	64QAM	1	0	19.08	19.11	19.09	20	0		
5	64QAM	1	24	19.10	19.03	19.12				
5	64QAM	1	49	19.13	19.09	19.17				
5	64QAM	25	0	19.03	19.02	19.01				
5	64QAM	25	12	19.05	19.03	19.10	20	0		
5	64QAM	50	0	19.09	19.01	19.10				
5	256QAM	1	0	19.03	19.13	19.13				
5	256QAM	1	12	17.05	16.06	17.09	19	1		
5	256QAM	1	24	17.04	16.03	17.07				
5	256QAM	12	0	17.05	17.05	17.05				
5	256QAM	12	7	17.07	16.03	17.09	19	1		
5	256QAM	25	15	17.07	17.05	17.06				
5	256QAM	25	0	17.06	16.01	17.05				
Channel										
Frequency (MHz)										
26067	26349	26607					Turn-up time (sec)	MFR (dB)		
3	QPSK	1	0	19.03	19.17	19.15				
3	QPSK	1	8	19.00	19.01	19.05	20	0		
3	QPSK	1	14	19.08	19.06	19.07				
3	QPSK	8	0	19.07	19.11	19.01				
3	QPSK	8	4	19.08	19.09	19.03				
3	QPSK	8	7	19.09	19.05	19.04	20	0		
3	QPSK	16	0	19.03	19.11	19.09				
3	16QAM	1	0	19.01	19.00	19.09				
3	16QAM	1	8	19.05	19.08	19.08	20	0		
3	16QAM	1	14	19.02	19.03	19.14				
3	16QAM	8	4	19.10	19.08	19.09	20	0		
3	16QAM	15	0	19.10	19.09	19.14				
3	16QAM	15	0	19.05	19.05	19.10				
3	64QAM	1	0	19.03	19.09	19.09	20	0		
3	64QAM	1	8	19.03	19.05	19.15				
3	64QAM	1	14	19.14	19.08	19.03				
3	64QAM	8	0	19.00	19.05	19.09				
3	64QAM	8	4	19.02	19.07	19.10	20	0		
3	64QAM	8	7	19.17	19.03	19.01				
3	256QAM	1	0	19.03	19.13	19.07				
3	256QAM	1	8	17.03	17.06	17.08	19	1		
3	256QAM	1	14	17.07	16.06	16.03				
3	256QAM	8	0	17.07	17.05	17.01				
3	256QAM	8	4	17.00	17.02	17.08	19	1		
3	256QAM	8	7	17.03	17.06	17.01				
3	256QAM	15	0	17.06	16.05	17.04				
Channel										



Band 66 Ant1 EC16														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (ms)	AMPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.51	18.63	18.56	18.5	0						
20	QPSK	1	49	18.41	18.47	18.45								
20	QPSK	1	99	18.28	18.43	18.37								
20	QPSK	50	0	18.42	18.52	18.44								
20	QPSK	50	24	18.43	18.47	18.37	18.5	0						
20	QPSK	50	50	18.35	18.48	18.31								
20	QPSK	100	0	18.32	18.45	18.25								
20	16QAM	1	0	18.30	18.45	18.36								
20	16QAM	1	49	18.25	18.45	18.29	19.5	0						
20	16QAM	1	99	18.28	18.35	18.26								
20	16QAM	50	0	18.44	18.44	18.33								
20	16QAM	50	24	18.41	18.45	18.30								
20	16QAM	50	50	18.29	18.37	18.24	19.5	0						
20	16QAM	100	0	18.28	18.40	18.42								
20	64QAM	1	0	18.38	18.52	18.44								
20	64QAM	1	49	18.38	18.40	18.42								
20	64QAM	1	99	18.23	18.38	18.34	19.5	0						
20	64QAM	50	0	18.34	18.44	18.29								
20	64QAM	50	24	18.27	18.42	18.34								
20	64QAM	50	50	18.38	18.37	18.28								
20	64QAM	100	0	18.43	18.54	18.40	19.5	0						
20	256QAM	1	0	17.67	17.89	17.86								
20	256QAM	1	49	17.92	18.04	17.93								
20	256QAM	1	99	17.92	17.87	17.82								
20	256QAM	50	0	17.85	17.95	17.85	19	0.5						
20	256QAM	50	24	17.97	18.07	17.95								
20	256QAM	50	50	17.80	17.84	17.88								
20	256QAM	100	0	17.84	17.87	17.82								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.38	18.52	18.42	19.5	0						
15	QPSK	1	37	18.33	18.36	18.32								
15	QPSK	1	74	18.21	18.34	18.25								
15	QPSK	36	0	18.34	18.40	18.31								
15	QPSK	36	20	18.33	18.36	18.32	19.5	0						
15	QPSK	36	39	18.21	18.41	18.22								
15	QPSK	75	0	18.26	18.42	18.26								
15	16QAM	1	0	18.19	18.34	18.26								
15	16QAM	1	37	18.15	18.38	18.25	19.5	0						
15	16QAM	1	74	18.23	18.28	18.16								
15	16QAM	36	0	18.37	18.37	18.25								
15	16QAM	36	20	18.38	18.34	18.41								
15	16QAM	36	39	18.26	18.34	18.26	19.5	0						
15	16QAM	75	0	18.25	18.38	18.38								
15	64QAM	1	0	18.25	18.48	18.35								
15	64QAM	1	37	18.25	18.25	18.34								
15	64QAM	1	74	18.12	18.27	18.29	19.5	0						
15	64QAM	36	0	18.29	18.31	18.24								
15	64QAM	36	20	18.23	18.26	18.27								
15	64QAM	36	39	18.30	18.32	18.20								
15	64QAM	75	0	18.34	18.50	18.26	19	0.5						
15	256QAM	1	0	17.82	17.92	17.85								
15	256QAM	1	37	17.88	17.94	17.89								
15	256QAM	1	74	17.83	17.85	17.77								
15	256QAM	36	0	17.82	17.84	17.84	19	0.5						
15	256QAM	36	20	17.91	17.97	17.85								
15	256QAM	36	39	17.72	17.88	17.84								
15	256QAM	75	0	17.77	17.88	17.78								
Channel														
Frequency (MHz)														
10	QPSK	1	0	18.43	18.54	18.48	19.5	0						
10	QPSK	1	25	18.32	18.40	18.32								
10	QPSK	1	49	18.24	18.40	18.25								
10	QPSK	25	12	18.33	18.34	18.27								
10	QPSK	25	25	18.21	18.42	18.17	19.5	0						
10	QPSK	50	0	18.26	18.32	18.21								
10	16QAM	1	0	18.22	18.37	18.23								
10	16QAM	1	25	18.20	18.36	18.17								
10	16QAM	1	49	18.19	18.30	18.26	19.5	0						
10	16QAM	25	0	18.41	18.32	18.28								
10	16QAM	25	12	18.31	18.30	18.46								
10	16QAM	50	0	18.14	18.21	18.17								
10	16QAM	50	0	18.15	18.39	18.37	19.5	0						
10	64QAM	1	0	18.33	18.45	18.39								
10	64QAM	1	25	18.32	18.37	18.27								
10	64QAM	1	49	18.14	18.30	18.31								
10	64QAM	25	0	18.23	18.30	18.23	19.5	0						
10	64QAM	25	12	18.21	18.31	18.26								
10	64QAM	25	25	18.27	18.24	18.21								
10	64QAM	50	0	18.31	18.40	18.25								
10	256QAM	1	0	17.83	18.04	17.90	19	0.5						
10	256QAM	1	25	17.78	17.90	17.87								
10	256QAM	25	0	17.81	17.97	17.84								
10	256QAM	25	12	17.84	17.95	17.87								
10	256QAM	25	25	17.88	17.88	17.75	19	0.5						
10	256QAM	50	0	17.72	17.82	17.73								
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.35	18.47	18.41	19.5	0						
5	QPSK	1	12	18.34	18.42	18.37								
5	QPSK	1	24	18.14	18.39	18.28								
5	QPSK	12	0	18.30	18.40	18.32								
5	QPSK	12	7	18.32	18.47	18.31	19.5	0						
5	QPSK	12	13	18.27	18.38	18.27								
5	QPSK	25	0	18.18	18.33	18.26								
5	16QAM	1	0	18.23	18.38	18.26								
5	16QAM	1	12	18.18	18.31	18.15	19.5	0						
5	16QAM	1	24	18.22	18.23	18.17								
5	16QAM	12	0	18.33	18.33	18.26								
5	16QAM	12	7	18.37	18.32	18.41								
5	16QAM	12	14	18.20	18.27	18.11	19.5	0						
5	16QAM	25	0	18.19	18.34	18.32								
5	64QAM	1	0	18.25	18.47	18.37								
5	64QAM	1	12	18.30	18.35	18.27								
5	64QAM	1	24	18.18	18.34	18.21	19.5	0						
5	64QAM	12	7	18.19	18.34	18.21								
5	64QAM	12	13	18.30	18.30	18.18								
5	64QAM	25	0	18.34	18.40	18.29								
5	256QAM	1	0	17.83	17.98	17.87	19.5	0						
5	256QAM	1	12	17.82	17.90	17.80								
5	256QAM	1	24	17.82	17.86	17.87								
5	256QAM	12	0	17.88	18.07	17.79								
5	256QAM	12	7	17.86	17.95	17.91	19	0.5						
5	256QAM	12	13	17.76	17.85	17.71								
5	256QAM	25	0	17.78	17.97	17.71								
Channel														
Frequency (MHz)														
3	QPSK	1	0	18.41	18.48	18.46	19.5	0						
3	QPSK	1	14	18.30	18.42	18.38								
3	QPSK	1	14	18.19	18.31	18.22								
3	QPSK	8	0	18.37	18.44	18.38								
3	QPSK	8	7	18.37	18.37	18.24	19.5	0						
3	QPSK	8	7	18.26	18.34	18.24								
3	QPSK	15	0	18.18	18.39	18.22								
3	QPSK	15	7	18.31	18.34	18.22								
3	16QAM	1	0	18.15	18.42	18.25	19.5	0						
3	16QAM	1	14	18.17	18.29	18.25								
3	16QAM	1	14	18.06	18.24	18.20								
3	16QAM	8	0	18.32	18.40	18.40								
3	16QAM	8	7	18.25	18.15	18.19	19.5	0						
3	16QAM	8	7	18.25	18.38	18.37								
3	16QAM	8	0	18.31	18.47	18.38								
3	16QAM	15	0	18.27	18.30	18.30								
3	16QAM	15	7	18.24	18.34	18.22	19.5	0						
3	16QAM	8	0	18.21	18.41	18.41								
3	16QAM	8	7	18.18	18.31	18.31								
3	16QAM	8	7	18.29	18.29	18.29								
3	16QAM	16	0	18.35	18.40	18.35	19.5	0						
3	16QAM	16	7	18.32	18.32	18.32								
3	16QAM	16	0	18.32	18.31	18.31								
3	16QAM	16	7	18.27	18.30	18.27								
3	16QAM	1	0	17.81	18.00	17.88	19	0.5						
3	256QAM	1	14	17.88	17.85	17.77								
3	256QAM	1	14	17.82	17.82	17.66								
3	256QAM	8	0	17.03	17.97	17.83								
3	256QAM	8	7	17.71	17.89	17.83	19	0.5						
3	256QAM	8	7	17.77	17.84	17.68								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	18.46	18.50	18.51	19.5	0						
1.4	QPSK	1	14	18.35	18.42	18.34								
1.4	QPSK	1	3	18.15	18.30	18.20								
1.4	QPSK	1	14	18.38	18.42	18.31								
1.4	QPSK	3	0	18.21	18.43	18.25	19.5	0						
1.4	QPSK	3	3	18.27	18.43	18.25								
1.4	16QAM	1	0	18.24	18.41	18.26								
1.4	16QAM	1	3	18.13	18.37	18.18								
1.4	16QAM	1	3	18.24	18.36	18.24	19.5	0						
1.4	16QAM	3	0	18.39	18.38	18.27								
1.4	16QAM	3	3	18.32	18.31	18.33								
1.4	16QAM	3	3	18.30	18.37	18.37								
1.4	16QAM	6	0	18.23	18.43	18.28	19.5	0						
1.4	16QAM	6	3	18.24	18.46	18.38								
1.4	16QAM	6	6	18.25	18.31	18.29								
1.4	16QAM	6	6	18.14	18.28	18.21								
1.4	16QAM	3	0	18.30	18.38	18.38	19.5	0						
1.4	16QAM	3	3	18.29	18.31	18.29								
1.4	16QAM	3	3	18.32	18.31	18.33								
1.4	16QAM	3	3	18.30	18.30	18.27								
1.4	16QAM	1	0	17.83	17.91	17.75	19	0.5						
1.4	16QAM	1	3	17.80	18.00	17.88								
1.4	16QAM	1	3	17.78	17.82	17.82								
1.4	16QAM	6	0	17.73	17.83	17.77								

Band 38 Ant1 EC16									
RF B/W	Modulation	RB Size	RB Offset	Power Spectral Density Ch / Freq	Power Spectral Density Ch / Freq	Power Spectral Density Ch / Freq	Power Spectral Density Ch / Freq	Time-up limit (dBm)	MPER (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.56	19.56	19.56	19.56	20.4	0
20	QPSK	1	49	19.30	19.30	19.30	19.30		
20	QPSK	1	98	19.03	19.03	19.03	19.03		
20	QPSK	50	0	19.42	19.42	19.42	19.42		
20	QPSK	50	50	19.21	19.21	19.21	19.21	20.4	0
20	QPSK	100	0	19.34	19.34	19.34	19.34		
20	16QAM	1	0	19.56	19.56	19.56	19.56		
20	16QAM	1	49	19.13	19.21	19.22	19.22		
20	16QAM	1	98	18.93	19.07	19.08	19.08		
20	16QAM	50	0	19.17	19.35	19.31	19.31		
20	16QAM	50	50	19.06	19.18	19.08	19.08	20.4	0
20	16QAM	100	0	19.06	19.18	19.08	19.08		
20	64QAM	1	0	19.27	19.29	19.28	19.28		
20	64QAM	1	49	19.10	19.26	19.14	19.14		
20	64QAM	1	98	18.93	19.07	19.08	19.08	20.4	0
20	64QAM	50	0	19.13	19.21	19.12	19.12		
20	64QAM	50	50	19.03	19.14	19.03	19.03		
20	64QAM	100	0	19.07	19.14	19.03	19.03		
20	256QAM	1	0	19.12	19.18	19.27	19.27		
20	256QAM	1	49	18.97	19.08	19.07	19.07	19	1.4
20	256QAM	1	99	18.97	19.21	19.10	19.10		
20	256QAM	50	0	19.10	19.22	19.14	19.14		
20	256QAM	50	50	18.98	19.07	19.07	19.07	19	1.4
20	256QAM	100	0	17.97	18.03	17.99	17.99		
Channel				37.65	38.05	38.17			
Frequency (MHz)									
15	QPSK	1	0	19.37	19.44	19.46	19.46		
15	QPSK	1	37	19.21	19.22	19.19	19.19	20.4	0
15	QPSK	1	74	19.26	19.21	19.13	19.13		
15	QPSK	36	0	19.34	19.41	19.31	19.31		
15	QPSK	36	20	19.21	19.36	19.26	19.26		
15	QPSK	36	58	19.18	19.21	19.14	19.14		
15	QPSK	72	0	19.34	19.29	19.25	19.25		
15	16QAM	1	0	19.50	19.28	19.15	19.15		
15	16QAM	1	37	19.08	19.21	19.15	19.15	20.4	0
15	16QAM	1	74	19.01	19.20	19.08	19.08		
15	16QAM	36	0	19.14	19.24	19.14	19.14		
15	16QAM	36	20	19.08	19.27	19.21	19.21		
15	16QAM	36	59	18.85	19.13	19.08	19.08		
15	16QAM	72	0	19.08	19.23	19.08	19.08		
15	64QAM	1	0	19.08	19.30	19.26	19.26		
15	64QAM	1	37	19.00	19.20	19.00	19.00	20.4	0
15	64QAM	1	74	18.99	19.21	19.01	19.01		
15	64QAM	36	0	19.05	19.11	19.02	19.02		
15	64QAM	36	20	18.99					
15	64QAM	36	59	18.99					
15	64QAM	72	0	19.01	19.07	19.03	19.03	20.4	0
15	64QAM	72	0	19.16	19.31	19.29	19.29		
15	256QAM	1	0	19.12	19.18	19.27	19.27		
15	256QAM	1	37	17.92	18.05	17.97	17.97		
15	256QAM	1	74	17.93	18.06	17.97	17.97	19	1.4
15	256QAM	36	0	19.05	19.11	19.02	19.02		
15	256QAM	36	20	17.83	17.91	17.85	17.85		
15	256QAM	36	59	17.83	17.90	17.85	17.85	19	1.4
15	256QAM	72	0	17.82	18.00	17.79	17.79		
Channel				37.65	38.05	38.17			
Frequency (MHz)									
10	QPSK	1	0	19.53	19.54	19.40	19.40		
10	QPSK	1	25	19.20	19.21	19.23	19.23	20.4	0
10	QPSK	1	49	19.13	19.21	19.24	19.24		
10	QPSK	26	0	19.31	19.33	19.26	19.26		
10	QPSK	26	12	19.30	19.37	19.30	19.30	20.4	0
10	QPSK	26	25	19.28	19.30	19.29	19.29		
10	QPSK	52	0	19.26	19.28	19.22	19.22		
10	16QAM	1	0	19.56	19.28	19.11	19.11		
10	16QAM	1	25	19.00	19.20	19.00	19.00	20.4	0
10	16QAM	1	49	19.04	19.12	19.04	19.04		
10	16QAM	26	0	19.08	19.18	19.20	19.20		
10	16QAM	26	12	19.15	19.32	19.21	19.21	20.4	0
10	16QAM	26	25	18.88	19.07	19.07	19.07		
10	16QAM	52	0	19.19	19.19	19.22	19.22		
10	64QAM	1	0	19.25	19.29	19.21	19.21		
10	64QAM	1	25	19.13	19.29	19.01	19.01	20.4	0
10	64QAM	1	49	19.00	19.19	19.06	19.06		
10	64QAM	26	0	19.00	19.19	19.06	19.06		
10	64QAM	26	12	19.06	19.21	19.03	19.03	20.4	0
10	64QAM	26	25	18.88	19.02	19.03	19.03		
10	64QAM	52	0	19.13	19.09	19.09	19.09		
10	256QAM	1	0	19.03	19.13	17.92	17.92		
10	256QAM	1	25	17.87	18.04	17.80	17.80	19	1.4
10	256QAM	1	49	17.96	18.14	17.95	17.95		
10	256QAM	26	0	17.85	17.96	17.86	17.86		
10	256QAM	26	12	17.83	17.87	17.87	17.87	19	1.4
10	256QAM	26	25	17.83	17.86	17.91	17.91		
10	256QAM	52	0	17.84	17.93	17.89	17.89		
Channel				37.75	38.05	38.23			
Frequency (MHz)									
5	QPSK	1	0	19.36	19.40	19.30	19.30		
5	QPSK	1	12	19.17	19.20	19.15	19.15	20.4	0
5	QPSK	1	24	19.12	19.23	19.01	19.01		
5	QPSK	12	0	19.22	19.29	19.16	19.16		
5	QPSK	12	7	19.21	19.36	19.17	19.17	20.4	0
5	QPSK	12	14	19.18	19.31	19.10	19.10		
5	QPSK	25	0	19.15	19.36	19.26	19.26		
5	16QAM	1	0	19.56	19.28	19.15	19.15		
5	16QAM	1	12	19.11	19.26	19.19	19.19	20.4	0
5	16QAM	1	24	19.00	19.23	19.19	19.19		
5	16QAM	12	0	19.19	19.29	19.13	19.13		
5	16QAM	12	7	19.20	19.27	19.23	19.23		
5	16QAM	12	13	18.88	19.15	19.05	19.05		
5	16QAM	25	0	19.08	19.21	19.13	19.13	20.4	0
5	64QAM	1	0	19.09	19.32	19.18	19.18		
5	64QAM	1	12	19.11	19.34	19.12	19.12		
5	64QAM	1	24	19.01	19.19	19.14	19.14	20.4	0
5	64QAM	12	0	19.07	19.31	19.06	19.06		
5	64QAM	12	7	19.04	19.33	19.11	19.11		
5	64QAM	12	13	18.95	19.09	19.11	19.11	20.4	0
5	64QAM	25	0	19.26	19.31	19.08	19.08		
5	256QAM	1	0	18.93	19.03	17.89	17.89		
5	256QAM	1	12	17.85	18.02	17.84	17.84	19	1.4
5	256QAM	1	24	17.96	18.16	17.87	17.87		
5	256QAM	12	0	17.86	18.15	17.86	17.86		
5	256QAM	12	7	17.81	17.93	17.88	17.88	19	1.4
5	256QAM	12	13	17.81	17.93	17.89	17.89		
5	256QAM	25	0	17.94	18.00	17.83	17.83		

Band 41 Ant1 EC16												
BRF (MHz)	Modulation	RB Size	RB Offset	Power Spectral Density (W/15KHz)	Power Spectral Density (W/15KHz)	Power Spectral Density (W/15KHz)	Power Spectral Density (W/15KHz)	Power Spectral Density (W/15KHz)	Power Spectral Density (W/15KHz)	Power Spectral Density (W/15KHz)	Power Spectral Density (W/15KHz)	Power Spectral Density (W/15KHz)
Channel												
Frequency (MHz)				36750	40185	44020	41055	41850				
5	QPSK	1	0	19.58	19.52	19.52	19.52	19.52	19.52	19.52	19.52	19.52
5	QPSK	1	48	19.57	19.56	19.41	19.44	19.44	19.44	19.44	19.44	19.44
5	QPSK	1	96	19.47	19.46	19.31	19.33	19.33	19.33	19.33	19.33	19.33
5	QPSK	50	0	19.47	19.43	19.28	19.45	19.45	19.45	19.45	19.45	19.45
5	QPSK	50	50	19.28	19.29	19.43	19.40	19.38	19.40	19.38	19.40	19.40
5	QPSK	100	0	19.49	19.39	19.25	19.43	19.43	19.43	19.43	19.43	19.43
5	16QAM	1	48	19.33	19.32	19.46	19.38	19.38	19.38	19.38	19.38	19.38
5	16QAM	1	96	19.43	19.43	19.33	19.33	19.33	19.33	19.33	19.33	19.33
5	16QAM	50	0	19.45	19.34	19.49	19.21	19.41	19.41	19.41	19.41	19.41
5	16QAM	50	50	19.21	19.25	19.48	19.40	19.38	19.40	19.38	19.40	19.40
5	16QAM	100	0	19.22	19.15	19.32	19.09	19.22	19.22	19.22	19.22	19.22
5	16QAM	160M	0	19.22	19.22	19.22	19.22	19.22	19.22	19.22	19.22	19.22
5	64QAM	1	0	19.26	19.31	19.42	19.30	19.37	19.42	19.37	19.42	19.42
5	64QAM	1	48	19.44	19.35	19.56	19.22	19.46	19.22	19.46	19.22	19.46
5	64QAM	1	96	19.23	19.23	19.33	19.33	19.33	19.33	19.33	19.33	19.33
5	64QAM	50	0	19.17	19.31	19.28	19.17	19.12	19.12	19.12	19.12	19.12
5	64QAM	50	50	19.25	19.25	19.40	19.33	19.33	19.33	19.33	19.33	19.33
5	64QAM	100	0	19.13	19.10	19.25	19.30	19.08	19.08	19.08	19.08	19.08
5	64QAM	160M	0	19.13	19.13	19.13	19.13	19.13	19.13	19.13	19.13	19.13
5	256QAM	1	0	19.50	19.48	18.64	18.51	19.58	18.51	19.58	18.51	19.58
5	256QAM	1	48	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65
5	256QAM	1	96	18.44	18.45	18.50	18.48	18.46	18.48	18.46	18.48	18.48
5	256QAM	50	0	18.46	18.45	18.56	18.41	18.40	18.41	18.40	18.41	18.41
5	256QAM	50	50	18.41	18.41	18.41	18.41	18.41	18.41	18.41	18.41	18.41
5	256QAM	100	0	18.40	18.30	18.44	18.32	18.37	18.47	18.46	18.46	18.46
5	256QAM	160M	0	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40
Channel												
Frequency (MHz)				36725	40170	44020	41060	41855				
15	QPSK	1	0	19.48	19.49	19.50	19.47	19.44	19.44	19.44	19.44	19.44
15	QPSK	1	37	19.21	19.33	19.22	19.33	19.38	19.22	19.38	19.22	19.38
15	QPSK	1	74	19.30	19.30	19.27	19.28	19.28	19.28	19.28	19.28	19.28
15	QPSK	36	0	19.25	19.29	19.42	19.37	19.47	19.37	19.47	19.37	19.47
15	QPSK	36	20	19.38	19.32	19.46	19.38	19.27	19.38	19.27	19.38	19.27
15	QPSK	36	40	19.30	19.27	19.41	19.33	19.43	19.33	19.43	19.33	19.43
15	QPSK	75	0	19.37	19.35	19.43	19.24	19.25	19.43	19.25	19.43	19.25
15	16QAM	1	0	19.44	19.27	19.37	19.41	19.40	19.25	19.40	19.25	19.40
15	16QAM	1	37	19.25	19.27	19.44	19.34	19.46	19.27	19.46	19.27	19.46
15	16QAM	1	74	19.29	19.31	19.42	19.25	19.33	19.24	19.33	19.24	19.33
15	16QAM	36	0	19.24	19.33	19.25	19.35	19.12	19.24	19.35	19.12	19.24
15	16QAM	36	20	19.33	19.33	19.25	19.35	19.12	19.33	19.25	19.35	19.12
15	16QAM	36	40	19.35	19.13	19.24	19.07	19.12	19.24	19.07	19.12	19.24
15	16QAM	75	0	19.27	19.30	19.39	19.24	19.25	19.39	19.25	19.39	19.25
15	64QAM	1	0	19.23	19.27	19.41	19.31	19.34	19.27	19.34	19.27	19.34
15	64QAM	1	37	19.32	19.29	19.50	19.24	19.21	19.50	19.21	19.50	19.21
15	64QAM	1	74	19.35	19.35	19.25	19.35	19.35	19.25	19.35	19.25	19.35
15	64QAM	36	0	19.05	19.25	19.09	19.00	19.05	19.09	19.00	19.05	19.09
15	64QAM	36	20	19.22	19.22	19.22	19.22	19.22	19.22	19.22	19.22	19.22
15	64QAM	36	40	19.02	19.28	19.18	19.21	19.03	19.28	19.18	19.21	19.03
15	64QAM	75	0	19.20	19.12	19.37	19.16	19.38	19.16	19.38	19.16	19.38
15	256QAM	1	0	19.43	19.42	18.48	18.48	19.43	18.48	19.43	18.48	19.43
15	256QAM	1	37	18.42	18.47	18.52	18.43	18.38	18.47	18.52	18.43	18.38
15	256QAM	1	74	18.52	18.31	18.42	18.42	18.30	18.42	18.42	18.30	18.42
15	256QAM	36	0	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36
15	256QAM	36	20	18.34	18.36	18.47	18.30	18.36	18.47	18.30	18.36	18.47
15	256QAM	36	40	18.32	18.52	18.44	18.28	18.27	18.52	18.44	18.28	18.27
15	256QAM	75	0	18.36	18.36	18.42	18.43	18.36	18.42	18.43	18.36	18.42
Channel												
Frequency (MHz)				36700	40160	44020	41060	41850				
10	QPSK	1	0	19.59	19.49	19.52	19.59	19.58	19.58	19.58	19.58	19.58
10	QPSK	1	25	19.17	19.35	19.27	19.27	19.09	19.27	19.09	19.27	19.09
10	QPSK	1	50	19.27	19.35	19.35	19.35	19.34	19.35	19.34	19.35	19.34
10	QPSK	26	0	19.24	19.31	19.40	19.40	19.40	19.44	19.40	19.44	19.40
10	QPSK	25	12	19.32	19.43	19.50	19.51	19.51	19.51	19.51	19.51	19.51
10	QPSK	25	37	19.35	19.35	19.35	19.35	19.35	19.35	19.35	19.35	19.35
10	QPSK	50	0	19.34	19.21	19.45	19.38	19.47	19.38	19.47	19.38	19.47
10	16QAM	1	0	19.48	19.38	19.48	19.48	19.48	19.48	19.48	19.48	19.48
10	16QAM	1	25	19.29	19.22	19.45	19.32	19.11	19.45	19.32	19.11	19.45
10	16QAM	1	48	19.19	19.18	19.30	19.18	19.13	19.18	19.13	19.18	19.13
10	16QAM	1	74	19.21	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41
10	16QAM	26	12	19.17	19.30	19.35	19.33	19.20	19.35	19.20	19.35	19.20
10	16QAM	25	25	19.20	19.13	19.28	19.05	19.04	19.28	19.05	19.04	19.28
10	16QAM	50	0	19.20	19.19	19.29	19.33	19.15	19.29	19.33	19.15	19.29
10	64QAM	1	0	19.59	19.20	19.25	19.22	19.34	19.25	19.34	19.25	19.34
10	64QAM	1	25	19.40	19.23	19.54	19.10	19.44	19.23	19.54	19.10	19.44
10	64QAM	1	50	19.33	19.19	19.27	19.38	19.16	19.27	19.38	19.16	19.27
10	64QAM	25	0	19.06	19.15	19.17	19.10	19.05	19.17	19.10	19.05	19.17
10	64QAM	25	12	19.11	19.11	19.11	19.11	19.11	19.11	19.11	19.11	19.11
10	64QAM	26	25	19.01	18.96	19.07	19.23	19.02	19.07	19.23	19.02	19.07
10	256QAM	1	0	19.24	19.19	19.34	19.19	19.23	19.19	19.23	19.19	19.23
10	256QAM	1	25	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42
10	256QAM	1	50	18.49	18.36	18.44	18.30	18.43	18.44	18.30	18.43	18.44
10	256QAM	1	48	18.40	18.38	18.46	18.37	18.34	18.46	18.37	18.34	18.46
10	256QAM	25	25	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36
10	256QAM	25	12	18.35	18.36	18.41	18.34	18.26	18.41	18.34	18.26	18.41
10	256QAM	25	50	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36
10	256QAM	50	0	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36
Channel												
Frequency (MHz)				36715	40163	44020	41053	41851				
5	QPSK	1	0	19.42	19.43	19.50	19.49	19.55	19.49	19.55	19.49	19.55
5	QPSK	1	12	19.33	19.33	19.31	19.32	19.13	19.31	19.32	19.13	19.31
5	QPSK	1	24	19.30	19.30	19.40	19.39	19.27	19.39	19.27	19.39	19.27
5	QPSK	12	0	19.36	19.39	19.54	19.43	19.55	19.43	19.55	19.43	19.55
5	QPSK	12	7	19.40	19.47	19.36	19.30	19.23	19.36	19.23	19.36	19.23
5	QPSK	12	14	19.39	19.40	19.40	19.40	19.40	19.40	19.40	19.40	19.40
5	QPSK	25	0	19.43	19.31	19.52	19.24	19.24	19.52	19.24	19.24	19.52
5	16QAM	1	0	19.46	19.46	19.46	19.46	19.46	19.46	19.46	19.46	19.46
5	16QAM	1	12	19.26	19.21	19.41	19.21	19.14	19.41	19.21	19.14	19.41
5	16QAM	1	24	19.13	19.18	19.33	19.18	19.15	19.33	19.18	19.15	19.33
5	16QAM	1	36	19.21	19.21	19.21	19.21	19.21	19.21	19.21	19.21	19.21
5	16QAM	12	7	19.25	19.35	19.40	19.29	19.13	19.40	19.29	19.13	19.40
5	16QAM	12	13	19.13	19.09	19.25	19.09	19.13	19.25	19.09	19.13	19.25
5	16QAM	25	0	19.14	19.14	19.24	19.27	19.10	19.24	19.27	19.	

Band 41 HPUE Ant1 EC6											
BRF (MHz)	Multiplex	RIS Size	RH Offset	Power (W) Ch / Freq	Power (W) Ch / Freq	Power (W) Ch / Freq	Power (W) Ch / Freq	Power (W) Ch / Freq	Power (W) Ch / Freq	Turn-up limit (dBm)	MPE (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.18	25.59	21.53	21.67	21.11			
20	QPSK	1	49	26.88	26.87	26.87	26.88	26.75		22	0
20	QPSK	5	0	21.18	25.59	21.53	21.67	21.11			
20	QPSK	50	0	21.67	21.63	21.13	21.11	21.55			
20	QPSK	24	0	21.67	21.63	21.13	21.11	21.55			
20	QPSK	50	50	25.72	25.76	25.76	25.82	25.83		22	0
20	QPSK	100	0	21.66	25.66	21.16	25.66	21.07			
20	QPSK	100	50	25.72	25.76	25.76	25.82	25.83			
20	16QAM	1	49	26.87	26.79	26.87	26.83	26.88			
20	16QAM	5	0	21.18	25.59	21.53	21.67	21.11			
20	16QAM	50	0	25.68	26.90	25.68	26.95	26.88			
20	16QAM	24	0	25.68	26.90	25.68	26.95	26.88			
20	16QAM	50	50	26.84	26.77	26.82	26.83	26.82		22	0
20	16QAM	100	0	25.68	26.90	25.68	26.95	26.88			
20	64QAM	1	0	25.77	26.76	25.84	25.83	26.84			
20	64QAM	1	49	26.88	26.89	26.76	26.77	26.84			
20	64QAM	5	0	25.77	26.76	25.84	25.83	26.84			
20	64QAM	50	0	26.89	26.81	26.76	26.59	26.60			
20	64QAM	24	0	26.78	26.78	26.78	26.78	26.78			
20	64QAM	50	50	26.92	26.99	26.81	26.86	26.52			
20	64QAM	100	0	25.77	26.76	25.84	25.83	26.84			
20	256QAM	1	0	26.75	26.87	21.67	26.75	26.86			
20	256QAM	1	49	26.88	26.89	26.76	26.77	26.84			
20	256QAM	5	50	26.83	26.79	26.87	26.80	26.83			
20	256QAM	50	0	26.91	26.92	21.91	26.72	26.87			
20	256QAM	24	0	26.91	26.91	26.91	26.91	26.91			
20	256QAM	50	50	26.92	26.70	26.87	26.85	26.78		22	0
20	256QAM	100	0	26.92	26.81	26.87	26.83	21.92			
Channel											
Frequency (MHz)											
15	QPSK	1	0	25.76	25.86	21.56	21.04	26.80			
15	QPSK	1	37	26.84	26.78	26.86	26.70	26.75			
15	QPSK	5	0	24.83	26.83	26.83	26.83	26.81			
15	QPSK	36	0	26.82	26.73	26.87	26.80	26.85			
15	QPSK	36	20	26.80	26.90	26.86	26.81	26.82			
15	QPSK	75	0	26.87	26.79	26.87	26.74	26.72			
15	QPSK	75	0	26.81	26.86	26.88	26.86	26.88			
15	16QAM	1	37	26.81	26.82	26.76	26.98	26.77			
15	16QAM	1	74	26.82	26.82	26.82	26.82	26.79		22	0
15	16QAM	1	74	26.82	26.70	26.83	26.84	26.70			
15	16QAM	36	20	26.86	26.74	26.82	26.74	26.68			
15	16QAM	36	39	26.81	26.81	26.81	26.81	26.75			
15	16QAM	75	0	26.79	26.79	26.81	26.81	26.75			
15	16QAM	75	0	26.87	26.85	26.88	26.86	26.85			
15	64QAM	1	37	26.82	26.80	26.82	26.70	26.80			
15	64QAM	1	74	26.83	26.83	26.83	26.88	26.79			
15	64QAM	36	0	26.87	26.84	26.89	26.65	26.42			
15	64QAM	36	20	26.82	26.82	26.82	26.82	26.82		22	0
15	64QAM	36	39	26.82	26.52	26.82	26.76	26.50			
15	64QAM	75	0	26.60	26.69	26.88	26.76	26.72			
15	256QAM	1	37	26.82	26.77	21.67	26.82	26.80			
15	256QAM	1	74	26.81	26.76	26.76	26.75	26.65			
15	256QAM	1	74	26.78	26.72	26.89	26.82	26.81		22	0
15	256QAM	36	20	26.82	26.82	26.82	26.82	26.82			
15	256QAM	36	20	26.76	21.02	26.79	26.59	26.63			
15	256QAM	36	39	26.76	26.99	26.91	26.78	26.69			
15	256QAM	75	0	21.98	26.79	26.82	26.80	26.80		22	0
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.87	25.75	21.02	21.03	20.82			
10	QPSK	1	25	26.88	26.85	26.87	26.79	26.70		22	0
10	QPSK	5	0	20.87	25.75	21.02	21.03	20.82			
10	QPSK	25	0	26.88	26.83	21.03	20.90	20.90			
10	QPSK	25	12	26.92	26.91	26.82	26.89	26.78			
10	QPSK	25	24	26.92	26.92	26.82	26.89	26.78		22	0
10	QPSK	50	0	26.99	26.77	26.99	26.75	26.98			
10	16QAM	1	25	26.90	26.87	26.77	26.75	26.86			
10	16QAM	1	49	26.65	26.76	26.84	26.74	26.79			
10	16QAM	5	0	20.87	25.75	21.02	21.03	20.82			
10	16QAM	25	12	26.89	26.82	26.93	26.80	26.82			
10	16QAM	25	24	26.92	26.49	26.76	26.81	26.70			
10	16QAM	50	0	26.84	26.82	26.82	26.82	26.82			
10	64QAM	1	0	26.66	26.58	26.71	26.72	26.69			
10	64QAM	1	25	26.74	26.77	26.82	26.69	26.88			
10	64QAM	5	0	26.68	26.59	26.68	26.74	26.81			
10	64QAM	25	0	26.54	26.76	26.87	26.42	26.50			
10	64QAM	25	12	26.69	26.69	26.76	26.69	26.69		22	0
10	64QAM	25	24	26.60	26.59	26.75	26.71	26.40			
10	64QAM	50	0	26.68	26.71	26.73	21.68	26.64			
10	256QAM	1	25	26.74	26.74	26.74	26.68	26.64			
10	256QAM	1	25	26.72	26.86	26.71	26.72	26.73			
10	256QAM	1	49	26.75	26.86	21.64	26.69	26.93			
10	256QAM	5	0	26.76	26.86	26.86	26.76	26.86			
10	256QAM	25	12	26.78	26.90	26.84	26.70	26.74			
10	256QAM	25	24	26.78	26.90	26.84	26.70	26.74			
10	256QAM	25	25	26.89	26.72	26.81	26.82	26.71		22	0
10	256QAM	50	0	26.91	26.85	26.85	26.81	21.55			
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.91	20.81	21.14	21.05	20.79			
5	QPSK	1	12	26.91	26.81	26.71	26.70	26.74		22	0
5	QPSK	5	0	20.91	20.81	21.14	21.05	20.79			
5	QPSK	12	0	26.83	26.75	26.98	26.76	26.79			
5	QPSK	12	7	26.74	26.90	26.90	26.76	26.72			
5	QPSK	24	24	26.92	26.73	26.92	26.73	26.72		22	0
5	QPSK	25	0	26.92	26.84	26.90	26.76	21.07			
5	16QAM	1	12	26.92	26.72	26.76	26.81	26.79			
5	16QAM	1	24	26.75	26.87	26.87	26.83	26.67			
5	16QAM	5	0	26.96	26.86	26.86	26.80	26.86			
5	16QAM	12	7	26.80	26.86	26.84	26.76	26.69			
5	16QAM	12	13	26.87	26.75	26.78	26.59	26.78			
5	16QAM	12	24	26.87	26.83	26.83	26.83	26.79			
5	16QAM	1	12	26.81	26.73	26.86	26.73	26.97			
5	64QAM	1	12	26.74	26.74	26.82	26.54	26.83			
5	64QAM	12	0	26.61	26.84	26.83	26.40	26.56			
5	64QAM	12	7	26.73	26.73	26.73	26.73	26.73			
5	64QAM	12	13	26.87	26.52	26.76	26.74	26.49			
5	64QAM	25	0	26.64	26.68	26.83	26.58	26.61			
5	256QAM	1	12	26.95	26.89	21.05	21.04	21.07			
5	256QAM	1	12	26.84	26.73	26.88	26.80	26.71			
5	256QAM	1	24	26.76	26.82	26.86	26.71	26.88			
5	256QAM	5	0	26.91	26.81	26.81	26.81	26.81			
5	256QAM	12	7	26.83	26.99	26.79	26.73	26.77			
5	256QAM	25	0	26.95	26.86	26.84	26.79	26.97			



Band 41 Ant2 Default																	
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)						
Channel																	
Frequency (MHz)																	
20	QPSK	1	0	22.43	22.57	22.54	22.66	22.69	22.79	24	0						
20	QPSK	1	49	22.65	22.84	22.73	22.86	22.82	22.82								
20	QPSK	50	0	22.60	22.59	22.68	22.63	22.63	22.63								
20	QPSK	50	50	21.58	21.61	21.57	21.70	21.74	21.74								
20	QPSK	50	24	21.70	21.79	21.87	21.81	21.72	21.72								
20	QPSK	100	0	21.69	21.72	21.68	21.76	21.71	21.71	23	1						
20	QPSK	100	0	21.62	21.61	21.51	21.72	21.68	21.68								
20	16QAM	1	0	21.81	21.81	21.82	21.78	21.81	21.81								
20	16QAM	1	99	21.79	21.77	21.80	21.74	21.77	21.77								
20	16QAM	1	99	21.71	21.77	21.82	21.68	21.74	21.74								
20	16QAM	50	0	20.83	20.89	20.87	20.91	20.90	20.90	22	2						
20	16QAM	50	24	20.80	20.76	20.77	20.89	20.83	20.83								
20	16QAM	50	0	20.87	20.89	20.89	20.87	20.83	20.83								
20	16QAM	50	50	20.63	20.64	20.70	20.63	20.58	20.58								
20	16QAM	100	0	20.87	20.48	20.58	20.50	20.53	20.53								
20	64QAM	1	0	20.36	20.44	20.51	20.36	20.45	20.45	22	2						
20	64QAM	1	49	20.54	20.56	20.58	20.54	20.54	20.54								
20	64QAM	1	99	20.38	20.44	20.51	20.38	20.45	20.45								
20	64QAM	50	0	19.87	19.90	20.01	19.86	19.92	19.92								
20	64QAM	50	24	19.77	19.75	19.88	19.73	19.75	19.75								
20	64QAM	100	0	19.83	19.86	19.94	19.85	19.79	19.79	21	3						
20	64QAM	100	0	19.80	19.91	19.96	19.86	19.84	19.84								
20	256QAM	1	0	17.74	17.74	17.82	17.74	17.72	17.72								
20	256QAM	1	99	17.62	17.59	17.73	17.60	17.65	17.65								
20	256QAM	1	99	17.58	17.60	17.69	17.60	17.63	17.63								
20	256QAM	50	0	17.81	17.86	17.82	17.86	17.86	17.86	19	5						
20	256QAM	50	24	17.82	17.81	17.89	17.80	17.74	17.74								
20	256QAM	50	50	17.78	17.81	17.89	17.80	17.76	17.76								
20	256QAM	100	0	17.63	17.61	17.75	17.61	17.65	17.65								
20	256QAM	100	0	17.63	17.61	17.75	17.61	17.65	17.65								
Channel																	
Frequency (MHz)																	
15	QPSK	1	0	22.53	22.53	22.53	22.53	22.53	22.53	24	0						
15	QPSK	1	37	22.55	22.86	22.67	22.61	22.56	22.56								
15	QPSK	1	74	22.46	22.53	22.59	22.56	22.62	22.62								
15	QPSK	36	0	21.44	21.56	21.63	21.72	21.65	21.65								
15	QPSK	36	20	21.69	21.70	21.73	21.70	21.64	21.64								
15	QPSK	75	0	21.56	21.68	21.67	21.69	21.67	21.67	23	1						
15	QPSK	75	0	21.52	21.61	21.62	21.73	21.70	21.70								
15	16QAM	1	0	21.68	21.67	21.81	21.72	21.67	21.67								
15	16QAM	1	37	21.59	21.70	21.80	21.74	21.65	21.65								
15	16QAM	1	74	21.63	21.63	21.73	21.63	21.64	21.64								
15	16QAM	36	0	20.74	20.81	20.84	20.85	20.84	20.84	22	2						
15	16QAM	36	20	20.69	20.64	20.61	20.62	20.58	20.58								
15	16QAM	36	50	20.59	20.61	20.71	20.54	20.52	20.52								
15	16QAM	75	0	20.77	20.84	20.86	20.73	20.62	20.62								
15	16QAM	75	0	20.65	20.63	20.61	20.72	20.58	20.58								
15	64QAM	1	37	20.48	20.43	20.50	20.41	20.39	20.39	22	2						
15	64QAM	1	74	20.31	20.30	20.36	20.27	20.26	20.26								
15	64QAM	36	0	19.75	19.78	19.87	19.70	19.77	19.77								
15	64QAM	36	20	19.72	19.69	19.79	19.62	19.69	19.69								
15	64QAM	75	0	19.70	19.80	19.90	19.73	19.70	19.70								
15	256QAM	1	0	17.86	17.89	17.97	17.82	17.83	17.83	19	5						
15	256QAM	1	37	17.82	17.81	17.96	17.82	17.83	17.83								
15	256QAM	1	74	17.52	17.47	17.56	17.50	17.60	17.60								
15	256QAM	36	0	17.88	17.85	17.86	17.89	17.84	17.84								
15	256QAM	36	20	17.84	17.88	17.89	17.82	17.70	17.70								
15	256QAM	36	39	17.66	17.74	17.86	17.68	17.62	17.62	19	5						
15	256QAM	75	0	17.76	17.84	17.80	17.81	17.77	17.77								
Channel																	
Frequency (MHz)																	
10	QPSK	1	0	25.91	25.97	25.93	25.97	25.95	25.95	24	0						
10	QPSK	1	25	25.92	26.04	25.99	25.90	25.91	25.91								
10	QPSK	1	49	25.84	25.48	25.63	25.54	25.53	25.53								
10	QPSK	1	99	25.86	25.87	25.90	25.86	25.86	25.86								
10	QPSK	25	12	21.68	21.65	21.81	21.66	21.58	21.58								
10	QPSK	25	25	21.56	21.63	21.76	21.72	21.67	21.67	23	1						
10	QPSK	25	0	21.69	21.67	21.80	21.74	21.67	21.67								
10	16QAM	1	0	21.73	21.76	21.79	21.70	21.75	21.75								
10	16QAM	1	12	21.73	21.76	21.79	21.72	21.67	21.67								
10	16QAM	1	49	21.68	21.62	21.69	21.64	21.60	21.60								
10	16QAM	25	0	20.78	20.81	20.92	20.78	20.76	20.76	22	2						
10	16QAM	25	12	20.75	20.66	20.76	20.73	20.66	20.66								
10	16QAM	25	25	20.54	20.54	20.71	20.50	20.56	20.56								
10	16QAM	50	0	20.78	20.76	20.86	20.74	20.66	20.66								
10	16QAM	50	0	20.50	20.49	20.59	20.46	20.53	20.53								
10	64QAM	1	0	20.42	20.43	20.54	20.43	20.44	20.44	22	2						
10	64QAM	1	25	20.42	20.40	20.54	20.43	20.44	20.44								
10	64QAM	1	49	20.29	20.30	20.46	20.34	20.34	20.34								
10	64QAM	25	0	19.75	19.81	19.88	19.74	19.82	19.82								
10	64QAM	25	12	19.72	19.86	19.81	19.59	19.66	19.66								
10	64QAM	25	25	19.74	19.75	19.87	19.76	19.78	19.78	21	3						
10	64QAM	50	0	19.71	19.88	19.80	19.75	19.79	19.79								
10	256QAM	1	0	17.62	17.66	17.74	17.66	17.68	17.68								
10	256QAM	1	25	17.46	17.46	17.60	17.47	17.54	17.54								
10	256QAM	1	49	17.48	17.57	17.57	17.53	17.52	17.52								
10	256QAM	25	0	17.83	17.86	17.86	17.86	17.86	17.86	19	5						
10	256QAM	25	12	17.83	17.85	17.89	17.82	17.83	17.83								
10	256QAM	25	25	17.63	17.73	17.87	17.72	17.68	17.68								
Channel																	
Frequency (MHz)																	
5	QPSK	1	0	22.50	22.52	22.42	22.73	22.69	22.72	24	0						
5	QPSK	1	12	22.52	22.55	22.54	22.56	22.57	22.57								
5	QPSK	1	24	22.48	22.49	22.62	22.58	22.52	22.52								
5	QPSK	12	7	21.67	21.64	21.84	21.64	21.64	21.64								
5	QPSK	12	7	21.69	21.65	21.72	21.74	21.67	21.67								
5	QPSK	25	1	21.56	21.51	21.66	21.58	21.58	21.58	23	1						
5	QPSK	25	0	21.58	21.56	21.67	21.63	21.61	21.61								
5	16QAM	1	0	21.73	21.68	21.87	21.74	21.71	21.71								
5	16QAM	1	12	21.74	21.72	21.83	21.73	21.73	21.73								
5	16QAM	1	24	21.59	21.73	21.74	21.55	21.63	21.63								
5	16QAM	12	0	20.89	20.75	20.85	20.76	20.83	20.83	22	2						
5	16QAM	12	12	20.87	20.69	20.86	20.66	20.68	20.68								
5	16QAM	12	13	20.54	20.62	20.69	20.60	20.59	20.59								
5	64QAM	1	0	20.76	20.76	20.83	20.70	20.78	20.78								
5	64QAM	1	12	20.55	20.42	20.52	20.45	20.47	20.47								
5	64QAM	1	12	20.42	20.43	20.47	20.36	20.40	20.40	22	2						
5	64QAM	1	24	20.27	20.28	20.35	20.24	20.24	20.24								
5	64QAM	12	0	19.74	19.78	19.88	19.82	19.85	19.85								
5	64QAM	12	13	19.72	19.83	19.78	19.65	19.65	19.65								
5	64QAM	12	13	19.78	19.83	19.87	19.74	19.73	19.73								
5	64QAM	25	0	19.77	19.82	19.84	19.78	19.74	19.74	21	3						
5	256QAM	1	0	17.67	17.67	17.71	17.66	17.63	17.63								
5	256QAM	1	12	17.48	17.48	17.61	17.48	17.48	17.48								
5	256QAM	1	24	17.54	17.81	17.57	17.53	17.51	17.51								
5	256QAM	1	49	17.68	17.83	17.63	17.60	17.60	17.60								
5	256QAM	12	7	17.76	17.78	17.84	17.78	17.78	17.78								
5	256QAM	12	13	17.66	17.77	17.78	17.66	17.66	17.66								
5	256QAM	12	13	17.62	17.67	17.84	17.62	17.62	17.62								



Band 48_FCC Ant4 ECI6											
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 band (MHz)	MPR (dB)		
Channel				56340	56350	56355	56365				
Frequency (MHz)				56340	56350	56355	56365				
20	QPSK	1	0	20.83	20.87	20.84	20.75	21.5	0		
20	QPSK	1	49	20.87	20.74	20.74	20.82				
20	QPSK	1	99	20.87	20.48	20.69	20.69				
20	QPSK	50	5	20.75	20.81	20.70	20.79				
20	QPSK	50	24	20.40	20.45	20.50	20.32	21.5	0		
20	QPSK	50	50	20.47	20.36	20.70	20.52				
20	QPSK	100	5	20.68	20.72	20.70	20.85				
20	16QAM	1	5	20.85	20.60	20.54	20.82	21.5	0		
20	16QAM	1	49	20.42	20.34	20.38	20.41				
20	16QAM	1	99	20.85	20.75	20.79	20.38				
20	16QAM	50	5	20.69	20.64	20.64	20.58				
20	16QAM	50	24	20.51	20.58	20.65	20.48	21.5	0		
20	16QAM	50	50	20.60	20.35	20.50	20.48				
20	16QAM	100	5	20.45	20.76	20.62	20.48				
20	64QAM	1	5	20.86	20.77	20.71	20.81	21.5	0		
20	64QAM	1	49	20.63	20.57	20.60	20.47				
20	64QAM	1	99	20.51	20.40	20.65	20.54				
20	64QAM	50	5	20.72	20.68	20.68	20.54				
20	64QAM	50	24	20.75	20.65	20.67	20.63	21	0.5		
20	64QAM	50	50	20.69	20.56	20.68	20.33				
20	64QAM	100	5	20.52	20.43	20.57	20.54				
20	256QAM	1	5	18.37	18.41	18.30	18.34	19	2.5		
20	256QAM	1	49	18.24	18.32	18.22	18.27				
20	256QAM	1	99	18.19	18.28	18.18	18.14				
20	256QAM	50	5	18.30	18.42	18.37	18.27				
20	256QAM	50	24	18.21	18.35	18.24	18.27	19	2.5		
20	256QAM	50	50	18.25	18.29	18.23	18.18				
20	256QAM	100	5	18.29	18.34	18.27	18.22				
Channel				56315	56320	56330	56340	Tune-up band (MHz)	MPR (dB)		
Frequency (MHz)				56315	56320	56330	56340				
15	QPSK	1	0	20.73	20.75	20.69	20.56	21.5	0		
15	QPSK	1	37	20.66	20.59	20.64	20.61				
15	QPSK	1	74	20.49	20.48	20.62	20.81				
15	QPSK	36	5	20.48	20.68	20.68	20.68				
15	QPSK	36	20	20.23	20.37	20.34	20.31	21.5	0		
15	QPSK	36	36	20.40	20.29	20.68	20.54				
15	QPSK	75	0	20.63	20.52	20.35	20.53				
15	16QAM	1	5	20.63	20.50	20.37	20.60	21.5	0		
15	16QAM	1	37	20.62	20.50	20.63	20.52				
15	16QAM	1	74	20.76	20.67	20.68	20.48				
15	16QAM	36	5	20.72	20.71	20.63	20.41				
15	16QAM	36	20	20.50	20.42	20.43	20.29	21.5	0		
15	16QAM	36	36	20.40	20.62	20.58	20.56				
15	16QAM	75	0	20.68	20.64	20.51	20.45				
15	64QAM	1	5	20.72	20.64	20.59	20.55	21.5	0		
15	64QAM	1	37	20.43	20.39	20.57	20.52				
15	64QAM	1	74	20.59	20.47	20.51	20.54				
15	64QAM	36	5	20.24	20.36	20.28	20.16				
15	64QAM	36	20	20.09	20.17	20.08	20.21	21	0.5		
15	64QAM	36	36	20.14	20.30	20.17	20.14				
15	64QAM	75	0	20.17	20.15	20.05	20.11				
15	256QAM	1	5	18.23	18.34	18.27	18.27	19	2.5		
15	256QAM	1	37	18.13	18.07	18.05	18.21				
15	256QAM	1	74	18.12	18.24	18.15	18.04				
15	256QAM	36	5	18.18	18.33	18.20	18.21				
15	256QAM	36	20	18.08	18.28	18.14	18.17	19	2.5		
15	256QAM	36	36	18.15	18.18	18.17	18.03				
15	256QAM	75	0	18.17	18.24	18.16	18.12				
Channel				56295	56300	56305	56315	Tune-up band (MHz)	MPR (dB)		
Frequency (MHz)				56295	56300	56305	56315				
10	QPSK	1	0	20.71	20.62	20.79	20.63	21.5	0		
10	QPSK	1	25	20.50	20.50	20.72	20.39				
10	QPSK	1	49	20.50	20.45	20.57	20.50				
10	QPSK	25	6	20.37	20.87	20.67	20.53				
10	QPSK	25	12	20.31	20.26	20.36	20.21	21.5	0		
10	QPSK	25	25	20.42	20.31	20.69	20.48				
10	QPSK	50	5	20.61	20.56	20.44	20.37				
10	16QAM	1	5	20.60	20.58	20.61	20.67	21.5	0		
10	16QAM	1	25	20.42	20.33	20.38	20.61				
10	16QAM	1	49	20.75	20.57	20.64	20.34				
10	16QAM	25	5	20.79	20.66	20.73	20.48				
10	16QAM	25	12	20.52	20.47	20.42	20.52	21.5	0		
10	16QAM	25	25	20.44	20.40	20.54	20.55				
10	16QAM	50	5	20.68	20.61	20.61	20.34				
10	64QAM	1	5	20.68	20.54	20.53	20.54	21.5	0		
10	64QAM	1	25	20.48	20.44	20.54	20.28				
10	64QAM	1	49	20.37	20.25	20.57	20.41				
10	64QAM	25	5	20.33	20.27	20.38	20.21				
10	64QAM	25	12	20.03	20.17	20.10	20.15	21	0.5		
10	64QAM	25	25	20.12	20.27	20.05	20.18				
10	64QAM	50	5	20.12	20.21	20.09	20.12				
10	256QAM	1	5	18.32	18.28	18.19	18.28	19	2.5		
10	256QAM	1	25	18.21	18.27	18.06	18.17				
10	256QAM	1	49	18.10	18.19	18.07	18.08				
10	256QAM	25	5	18.19	18.29	18.20	18.13				
10	256QAM	25	12	18.07	18.26	18.12	18.16	19	2.5		
10	256QAM	25	25	18.10	18.25	18.15	18.05				
10	256QAM	50	5	18.22	18.24	18.15	18.08				
Channel				56295	56300	56310	56320	Tune-up band (MHz)	MPR (dB)		
Frequency (MHz)				56295	56300	56310	56320				
5	QPSK	1	0	20.71	20.62	20.79	20.63	21.5	0		
5	QPSK	1	12	20.57	20.55	20.69	20.37				
5	QPSK	1	24	20.55	20.32	20.49	20.55				
5	QPSK	12	0	20.58	20.77	20.55	20.69				
5	QPSK	12	7	20.40	20.50	20.44	20.62	21.5	0		
5	QPSK	12	13	20.63	20.45	20.64	20.49				
5	QPSK	25	5	20.60	20.54	20.49	20.49				
5	16QAM	1	5	20.49	20.52	20.51	20.50	21.5	0		
5	16QAM	1	12	20.38	20.17	20.29	20.25				
5	16QAM	1	24	20.64	20.64	20.60	20.35				
5	16QAM	12	5	20.79	20.65	20.60	20.61				
5	16QAM	12	7	20.47	20.40	20.42	20.43	21.5	0		
5	16QAM	12	13	20.36	20.36	20.54	20.54				
5	64QAM	1	5	20.61	20.61	20.68	20.40				
5	64QAM	1	5	20.57	20.62	20.59	20.44	21.5	0		
5	64QAM	1	12	20.46	20.41	20.42	20.33				
5	64QAM	1	24	20.47	20.23	20.58	20.42				
5	64QAM	12	0	20.26	20.34	20.36	20.20	21	0.5		
5	64QAM	12	7	20.00	20.16	20.14	20.14				
5	64QAM	25	5	20.31	20.22	20.03	20.08				
5	256QAM	1	5	18.27	18.30	18.19	18.29	19	2.5		
5	256QAM	1	12	18.18	18.20	18.13	18.20				
5	256QAM	1	24	18.09	18.21	18.04	18.08				
5	256QAM	12	5	18.13	18.26	18.15	18.17	19	2.5		
5	256QAM	12	7	18.16	18.28	18.16	18.20				
5	256QAM	12	13	18.16	18.14	18.15	18.06				



Band 48_FCC Ant5 ECI6												
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 band (dBm)	MPR (dB)			
Channel				56340	56830	56150	56640					
Frequency (MHz)				3600	3600	3643	36640					
20	QPSK	1	0	21.88	21.98	21.93	21.78	23	0			
20	QPSK	1	49	21.87	21.91	21.86	21.91					
20	QPSK	1	89	21.83	21.89	21.81	21.83					
20	QPSK	50	0	21.87	21.79	21.79	21.84					
20	QPSK	50	24	21.70	21.71	21.70	21.57	23	0			
20	QPSK	50	80	21.75	21.70	21.70	21.68					
20	QPSK	100	0	21.65	21.71	21.70	21.50					
20	16QAM	1	0	21.84	21.87	21.87	21.52	23	0			
20	16QAM	1	49	21.88	21.97	21.80	21.57					
20	16QAM	1	99	21.88	21.91	21.72	21.58					
20	16QAM	50	0	20.74	20.96	20.76	20.71					
20	16QAM	50	24	20.84	21.01	20.84	20.58	22	1			
20	16QAM	50	50	20.69	20.94	20.78	20.69					
20	16QAM	100	0	20.65	20.84	20.67	20.57					
20	64QAM	1	0	20.75	20.99	20.88	20.55					
20	64QAM	1	49	20.75	20.92	20.75	20.61	22	1			
20	64QAM	1	99	20.74	20.93	20.84	20.57					
20	64QAM	50	0	19.72	19.93	19.70	19.70					
20	64QAM	50	24	19.86	19.90	19.80	19.57					
20	64QAM	50	50	19.63	19.84	19.88	19.65	21	2			
20	64QAM	100	0	19.71	19.83	19.81	19.55					
20	256QAM	1	0	17.72	17.92	17.89	17.51					
20	256QAM	1	49	17.81	17.78	17.89	17.55	19	4			
20	256QAM	1	99	17.84	17.88	17.78	17.70					
20	256QAM	50	0	17.72	18.00	17.77	17.60					
20	256QAM	50	24	17.78	17.88	17.85	17.53					
20	256QAM	50	50	17.87	18.00	17.75	17.60	19	4			
20	256QAM	100	0	17.77	17.95	17.69	17.58					
Channel				56315	56300	56100	56660					
Frequency (MHz)				3613	3613	3642	36173					
15	QPSK	1	0	21.71	21.87	21.68	21.63	23	0			
15	QPSK	1	37	21.84	21.85	21.69	21.68					
15	QPSK	1	74	21.82	21.87	21.60	21.71					
15	QPSK	36	0	21.49	21.66	21.65	21.54					
15	QPSK	36	20	21.89	21.59	21.51	21.66	23	0			
15	QPSK	36	36	21.54	21.71	21.68	21.62					
15	QPSK	75	0	21.87	21.52	21.57	21.57					
15	16QAM	1	0	21.86	21.73	21.84	21.66	23	0			
15	16QAM	1	37	21.73	21.88	21.82	21.48					
15	16QAM	1	74	21.49	21.83	21.72	21.45					
15	16QAM	36	0	20.84	20.84	20.54	20.70					
15	16QAM	36	20	20.81	21.00	20.75	20.57	22	1			
15	16QAM	36	36	20.54	20.90	20.68	20.56					
15	16QAM	75	0	20.48	20.70	20.52	20.68					
15	64QAM	1	0	20.69	20.93	20.83	20.55					
15	64QAM	1	37	20.57	20.77	20.53	20.60	22	1			
15	64QAM	1	74	20.63	20.96	20.84	20.89					
15	64QAM	36	0	19.58	19.76	19.55	19.67					
15	64QAM	36	20	19.58	19.82	19.88	19.55	21	2			
15	64QAM	75	0	19.46	19.84	19.88	19.52					
15	64QAM	75	0	19.57	19.72	19.55	19.54					
15	256QAM	1	0	17.86	17.83	17.62	17.51	19	4			
15	256QAM	1	37	17.72	17.56	17.70	17.54					
15	256QAM	1	74	17.43	17.80	17.77	17.58					
15	256QAM	36	0	17.85	17.80	17.78	17.61					
15	256QAM	36	20	17.62	17.70	17.64	17.67	19	4			
15	256QAM	36	36	17.57	18.00	17.69	17.52					
15	256QAM	75	0	17.74	17.78	17.57	17.59					
Channel				56290	56315	56165	56690					
Frequency (MHz)				3655	3607.5	3642.5	3666					
10	QPSK	1	0	21.59	21.78	21.68	21.60	23	0			
10	QPSK	1	25	21.74	21.79	21.82	21.71					
10	QPSK	1	49	21.70	21.74	21.62	21.55					
10	QPSK	25	0	21.47	21.83	21.56	21.48					
10	QPSK	25	12	21.69	21.52	21.60	21.56	23	0			
10	QPSK	25	25	21.56	21.68	21.63	21.71					
10	QPSK	50	0	21.50	21.63	21.48	21.38					
10	16QAM	1	0	21.74	21.87	21.82	21.38					
10	16QAM	1	25	21.72	21.88	21.68	21.58	23	0			
10	16QAM	1	49	21.54	21.79	21.57	21.48					
10	16QAM	25	0	20.86	20.80	20.68	20.71					
10	16QAM	25	12	20.86	20.81	20.89	20.51					
10	16QAM	25	25	20.70	20.80	20.74	20.55	22	1			
10	16QAM	50	0	20.51	20.83	20.68	20.52					
10	64QAM	1	0	20.71	20.80	20.71	20.58					
10	64QAM	1	25	20.58	20.84	20.70	20.58	22	1			
10	64QAM	1	49	20.73	20.75	20.72	20.58					
10	64QAM	25	0	19.50	19.83	19.83	19.67					
10	64QAM	25	12	19.50	19.87	19.89	19.56	21	2			
10	64QAM	25	25	19.56	19.76	19.84	19.57					
10	64QAM	50	0	19.54	19.83	19.73	19.38					
10	256QAM	1	0	17.73	17.92	17.59	17.58					
10	256QAM	1	25	17.77	17.84	17.82	17.44	19	4			
10	256QAM	1	49	17.49	17.78	17.78	17.64					
10	256QAM	25	0	17.80	17.88	17.83	17.48					
10	256QAM	25	12	17.85	17.74	17.72	17.46					
10	256QAM	25	25	17.50	17.89	17.54	17.51	19	4			
10	256QAM	50	0	17.78	17.97	17.67	17.69					
Channel				5625.5	3607	3643	3667.5					
Frequency (MHz)				3652.5	3607	3643	3667.5					
5	QPSK	1	0	21.72	21.80	21.63	21.49	23	0			
5	QPSK	1	12	21.72	21.86	21.56	21.89					
5	QPSK	1	24	21.85	21.88	21.58	21.64					
5	QPSK	12	0	21.84	21.78	21.69	21.42					
5	QPSK	12	7	21.54	21.59	21.69	21.47	23	0			
5	QPSK	12	13	21.73	21.69	21.58	21.59					
5	QPSK	25	0	21.82	21.64	21.68	21.59					
5	16QAM	1	0	21.84	21.81	21.82	21.47					
5	16QAM	1	12	21.78	21.76	21.78	21.53	23	0			
5	16QAM	1	24	21.80	21.70	21.52	21.41					
5	16QAM	12	0	20.52	20.84	20.69	20.50					
5	16QAM	12	7	20.73	20.84	20.67	20.46					
5	64QAM	1	12	20.84	20.84	20.68	20.53	22	1			
5	64QAM	25	0	20.50	20.81	20.48	20.42					
5	64QAM	1	0	20.69	20.95	20.76	20.60					
5	64QAM	1	12	20.84	20.84	20.68	20.53					
5	64QAM	1	24	20.53	20.84	20.61	20.46	21	2			
5	64QAM	12	0	19.59	19.88	19.70	19.71					
5	64QAM	12	7	19.44	19.72	19.82	19.44					
5	64QAM	25	0	19.80	19.79	19.82	19.52					
5	256QAM	1	0	17.57	17.89	17.70	17.50	19	4			
5	256QAM	1	12	17.85	17.69	17.73	17.57					
5	256QAM	1	24	17.80	17.75	17.78	17.59					
5	256QAM	12	0	17.86	17.99	17.68	17.51					
5	256QAM	12	7	17.74	17.83	17.72	17.48	19	4			
5	256QAM	12	13	17.80	17.68	17.70	17.46					
5	256QAM	25	0	17.73	17.91	17.52	17.52					

Band 41 Ant6 Default												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Hgh Ch / Freq	Power High Hgh Ch / Freq	Turn-up limit (dBm)	MFR (dB)	
Channel												
Frequency (MHz)				39870	40188	40600	41006	41490	41924			
20	QPSK	1	0	22.52	22.47	22.56	22.52	22.46	22.46			
20	QPSK	1	40	22.54	22.37	22.53	22.54	22.36	22.36	24	0	
20	QPSK	1	80	22.48	22.47	22.60	22.46	22.46	22.46			
20	QPSK	50	0	21.48	21.38	21.55	21.52	21.44	21.44			
20	QPSK	50	24	21.32	21.34	21.42	21.38	21.38	21.38	23	1	
20	QPSK	50	48	21.55	21.37	21.44	21.46	21.44	21.44			
20	QPSK	100	0	21.23	21.29	21.52	21.49	21.39	21.39			
20	16QAM	1	0	21.37	21.47	21.50	21.44	21.46	21.46	23	1	
20	16QAM	1	40	21.30	21.50	21.44	21.41	21.41	21.39			
20	16QAM	1	80	21.31	21.35	21.40	21.30	21.39	21.39			
20	16QAM	50	0	20.90	20.43	20.58	20.51	20.50	20.50			
20	16QAM	50	24	20.27	20.38	20.42	20.31	20.34	20.34	22	2	
20	16QAM	50	50	20.20	20.30	20.36	20.22	20.26	20.26			
20	16QAM	100	0	20.40	20.49	20.54	20.42	20.46	20.46			
20	16QAM	1	0	20.47	20.32	20.32	20.41	20.42	20.42			
20	16QAM	1	40	20.25	20.19	20.30	20.26	20.23	20.23	22	2	
20	16QAM	1	80	20.35	20.32	20.35	20.26	20.21	20.21			
20	16QAM	50	0	19.44	19.45	19.55	19.47	19.42	19.42			
20	16QAM	50	24	19.29	19.33	19.42	19.36	19.29	19.29	21	3	
20	16QAM	50	50	19.35	19.35	19.45	19.42	19.35	19.35			
20	16QAM	100	0	19.49	19.41	19.54	19.48	19.49	19.49			
20	256QAM	1	0	17.42	17.40	17.53	17.43	17.50	17.50			
20	256QAM	1	40	17.34	17.39	17.43	17.36	17.35	17.35	19	5	
20	256QAM	1	80	17.36	17.32	17.40	17.29	17.37	17.37			
20	256QAM	50	0	17.45	17.57	17.64	17.54	17.55	17.55			
20	256QAM	50	24	17.08	17.57	17.64	17.54	17.55	17.55	19	5	
20	256QAM	50	50	17.52	17.45	17.57	17.53	17.44	17.44			
20	256QAM	100	0	17.58	17.68	17.76	17.68	17.68	17.68			
Channel												
Frequency (MHz)				39875	40173	40600	41006	41491	41915	Turn-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	22.52	22.47	22.56	22.47	22.43	22.43			
15	QPSK	1	37	22.48	22.24	22.46	22.46	22.21	22.21	24	0	
15	QPSK	1	74	22.42	22.38	22.52	22.32	22.34	22.34			
15	QPSK	1	8	21.38	21.38	21.51	21.40	21.32	21.32			
15	QPSK	36	20	21.24	21.26	21.32	21.26	21.23	21.23	23	1	
15	QPSK	36	56	21.25	21.21	21.27	21.21	21.19	21.19			
15	QPSK	75	0	21.09	21.10	21.40	21.45	21.34	21.34			
15	16QAM	1	0	21.33	21.38	21.43	21.34	21.37	21.37	23	1	
15	16QAM	1	40	21.15	21.34	21.32	21.35	21.25	21.25			
15	16QAM	1	74	21.17	21.27	21.29	21.15	21.15	21.15			
15	16QAM	36	0	20.43	20.36	20.51	20.48	20.37	20.37	22	2	
15	16QAM	36	30	20.45	20.37	20.51	20.31	20.24	20.24			
15	16QAM	36	59	20.17	20.16	20.27	20.12	20.22	20.22			
15	16QAM	75	0	20.43	20.43	20.41	20.31	20.37	20.37	22	2	
15	16QAM	1	0	20.35	20.34	20.38	20.27	20.30	20.30			
15	16QAM	1	37	20.15	20.11	20.19	20.16	20.12	20.12	22	2	
15	16QAM	1	74	20.15	20.19	20.13	20.17	20.06	20.06			
15	16QAM	36	0	19.40	19.35	19.49	19.41	19.35	19.35	21	3	
15	16QAM	36	30	19.24	19.25	19.35	19.24	19.15	19.15			
15	16QAM	36	59	19.45	19.39	19.42	19.35	19.24	19.24			
15	16QAM	75	0	19.25	19.24	19.49	19.42	19.32	19.32			
15	256QAM	1	0	17.37	17.34	17.44	17.29	17.39	17.39	19	5	
15	256QAM	1	37	17.24	17.25	17.53	17.21	17.20	17.20			
15	256QAM	1	74	17.22	17.26	17.30	17.16	17.25	17.25			
15	256QAM	36	0	17.45	17.49	17.51	17.52	17.42	17.42	19	5	
15	256QAM	36	30	17.45	17.43	17.50	17.39	17.48	17.48			
15	256QAM	36	59	17.49	17.53	17.47	17.41	17.31	17.31			
15	256QAM	75	0	17.43	17.47	17.56	17.46	17.50	17.50			
Channel												
Frequency (MHz)				39970	40140	40600	41006	41490	41915	Turn-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	22.43	22.36	22.44	22.47	22.49	22.49	24.00	0	
10	QPSK	1	25	22.40	22.30	22.43	22.49	22.29	22.29			
10	QPSK	1	49	22.41	22.40	22.56	22.38	22.33	22.33			
10	QPSK	25	0	21.43	21.34	21.48	21.46	21.46	21.46	23	1	
10	QPSK	25	12	21.27	21.24	21.35	21.25	21.19	21.19			
10	QPSK	25	25	21.22	21.14	21.36	21.43	21.32	21.32			
10	QPSK	50	0	21.10	21.26	21.45	21.39	21.26	21.26	23	1	
10	16QAM	1	0	21.33	21.32	21.38	21.39	21.33	21.33	23	1	
10	16QAM	1	25	21.17	21.25	21.37	21.37	21.31	21.31			
10	16QAM	1	49	21.27	21.21	21.28	21.26	21.27	21.27			
10	16QAM	25	0	20.43	20.34	20.45	20.47	20.46	20.46	22	2	
10	16QAM	25	12	20.16	20.23	20.35	20.19	20.28	20.28			
10	16QAM	25	25	20.15	20.17	20.25	20.07	20.13	20.13			
10	16QAM	50	0	20.43	20.42	20.45	20.35	20.36	20.36	22	2	
10	16QAM	1	0	20.43	20.27	20.48	20.36	20.29	20.29			
10	16QAM	1	25	20.19	20.05	20.16	20.19	20.10	20.10	22	2	
10	16QAM	1	49	20.15	20.07	20.21	20.08	20.17	20.17			
10	16QAM	25	0	19.30	19.31	19.41	19.36	19.27	19.27	21	3	
10	16QAM	25	12	19.16	19.27	19.32	19.29	19.15	19.15			
10	16QAM	25	25	19.21	19.26	19.42	19.31	19.22	19.22			
10	16QAM	50	0	19.27	19.31	19.44	19.35	19.30	19.30			
10	256QAM	1	0	17.32	17.36	17.46	17.31	17.39	17.39	19	5	
10	256QAM	1	25	17.24	17.26	17.36	17.25	17.24	17.24			
10	256QAM	1	49	17.24	17.28	17.30	17.19	17.23	17.23			
10	256QAM	25	0	17.51	17.43	17.58	17.51	17.59	17.59			
10	256QAM	25	12	17.47	17.50	17.48	17.44	17.42	17.42	19	5	
10	256QAM	25	25	17.40	17.31	17.44	17.38	17.25	17.25			
10	256QAM	50	0	17.50	17.52	17.58	17.48	17.53	17.53			
Channel												
Frequency (MHz)				39975	40140	40600	41006	41490	41915	Turn-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.44	22.40	22.54	22.54	22.40	22.40	24.00	0	
5	QPSK	1	15	22.40	22.34	22.49	22.41	22.24	22.24			
5	QPSK	1	24	22.38	22.42	22.56	22.40	22.33	22.33			
5	QPSK	12	0	21.38	21.29	21.41	21.44	21.37	21.37	23	1	
5	QPSK	12	7	21.18	21.27	21.33	21.25	21.19	21.19			
5	QPSK	12	13	21.30	21.22	21.38	21.36	21.32	21.32			
5	QPSK	25	0	21.19	21.17	21.40	21.39	21.27	21.27	23	1	
5	16QAM	1	0	21.33	21.37	21.41	21.33	21.36	21.36	23	1	
5	16QAM	1	12	21.23	21.28	21.39	21.38	21.31	21.31			
5	16QAM	1	24	21.27	21.21	21.29	21.20	21.17	21.17	22	2	
5	16QAM	12	0	20.39	20.37	20.51	20.38	20.41	20.41			
5	16QAM	12	7	20.20	20.23	20.33	20.24	20.25	20.25			
5	16QAM	12	13	20.19	20.18	20.26	20.16	20.13	20.13	22	2	
5	16QAM	25	0	20.44	20.40	20.47	20.33	20.43	20.43			
5	16QAM	1	0	20.42	20.27	20.49	20.32	20.32	20.32			
5	16QAM	1	12	20.17	20.16	20.17	20.02	20.10	20.10	22	2	
5	16QAM	1	24	20.13	20.15	20.19	20.11	20.10	20.10	21	3	
5	16QAM	12	0	19.34	19.41	19.52	19.38	19.37	19.37			
5	16QAM	12	7	19.15	19.28	19.33	19.25	19.25	19.25			
5	16QAM	12	13	19.24	19.21	19.44	19.34	19.31	19.31			
5	16QAM	25	0	19.35	19.30	19.47	19.37	19.31	19.31			
5	256QAM	1	0	17.33	17.36	17.46	17.31	17.39	17.39	19	5	
5	256QAM	1	12	17.24	17.28	17.40	17.31	17.26	17.26			
5	256QAM	1	24	17.23	17.23	17.30	17.25	17.24	17.24			
5	256QAM	12	0	17.49	17.48	17.58	17.48	17.52	17.52			



Band 48_FCC Ant7 ECI6									
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 band (dBm)	MPR (dB)
Channel				56340	56830	56190	56640	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56400	56900	56240	56680		
20	QPSK	1	0	20.42	20.49	20.44	20.41	21.5	0
20	QPSK	1	49	20.39	20.47	20.43	20.44		
20	QPSK	1	99	20.38	20.46	20.42	20.38		
20	QPSK	50	0	20.40	20.45	20.39	20.42		
20	QPSK	50	24	20.21	20.28	20.32	20.38	21.5	0
20	QPSK	50	60	20.26	20.36	20.35	20.22		
20	QPSK	100	0	20.40	20.41	20.34	20.38		
20	16QAM	1	0	20.25	20.32	20.25	20.41	21.5	0
20	16QAM	1	49	20.24	20.35	20.31	20.18		
20	16QAM	1	99	20.40	20.39	20.28	20.40		
20	16QAM	50	0	20.32	20.37	20.27	20.27		
20	16QAM	50	24	20.26	20.39	20.38	20.20	21.5	0
20	16QAM	50	50	20.36	20.37	20.41	20.26		
20	16QAM	100	0	20.24	20.40	20.27	20.42		
20	64QAM	1	0	20.26	20.34	20.23	20.24	21.5	0
20	64QAM	1	49	20.26	20.29	20.37	20.33		
20	64QAM	1	99	20.21	20.22	20.23	20.27		
20	64QAM	50	0	19.88	19.81	19.44	19.87		
20	64QAM	50	24	19.79	19.58	19.48	19.42	21	0.5
20	64QAM	50	50	19.71	19.70	18.43	19.24		
20	64QAM	100	0	19.75	19.76	19.48	19.75		
20	256QAM	1	0	17.66	17.70	17.44	17.63	19	2.5
20	256QAM	1	49	17.80	17.50	17.64	17.50		
20	256QAM	1	99	17.55	17.72	17.67	17.53		
20	256QAM	50	0	17.79	17.76	17.58	17.66		
20	256QAM	50	24	17.86	17.50	17.55	17.65	19	2.5
20	256QAM	50	50	17.80	17.73	17.67	17.74		
20	256QAM	100	0	17.67	17.81	17.60	17.67		
Channel				56315	56800	56160	56660	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56375	56700	56220	56570		
15	QPSK	1	0	20.41	20.36	20.23	20.32	21.5	0
15	QPSK	1	37	20.38	20.36	20.32	20.39		
15	QPSK	1	74	20.24	20.39	20.32	20.24		
15	QPSK	36	0	20.35	20.42	20.38	20.30		
15	QPSK	36	20	20.03	20.21	20.27	20.17	21.5	0
15	QPSK	36	36	20.29	20.20	20.18	20.07		
15	QPSK	75	0	20.28	20.29	20.15	20.36		
15	16QAM	1	0	20.09	20.31	20.24	20.22	21.5	0
15	16QAM	1	37	20.23	20.18	20.28	20.06		
15	16QAM	1	74	20.28	20.34	20.10	20.27		
15	16QAM	36	0	20.31	20.19	20.23	20.15		
15	16QAM	36	20	20.15	20.26	20.28	20.07	21.5	0
15	16QAM	36	36	20.30	20.22	20.30	20.16		
15	16QAM	75	0	20.15	20.27	20.26	20.43		
15	64QAM	1	0	20.25	20.27	20.24	20.21	21.5	0
15	64QAM	1	37	20.10	20.18	20.25	20.20		
15	64QAM	1	74	20.02	20.12	20.17	20.11		
15	64QAM	36	0	19.53	19.64	19.41	19.46		
15	64QAM	36	20	19.69	19.45	19.38	19.42	21	0.5
15	64QAM	36	36	19.73	19.67	19.27	19.37		
15	64QAM	75	0	19.57	19.51	19.45	19.74		
15	256QAM	1	0	17.89	17.67	17.46	17.51	19	2.5
15	256QAM	1	37	17.65	17.30	17.42	17.41		
15	256QAM	1	74	17.35	17.67	17.49	17.35		
15	256QAM	36	0	17.66	17.59	17.51	17.55		
15	256QAM	36	20	17.68	17.78	17.50	17.55	19	2.5
15	256QAM	36	36	17.76	17.62	17.53	17.58		
15	256QAM	75	0	17.58	17.73	17.41	17.51		
Channel				56265	56315	56365	56395	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56355	56375	56425	56395		
10	QPSK	1	0	20.40	20.43	20.33	20.23	21.5	0
10	QPSK	1	25	20.38	20.29	20.33	20.40		
10	QPSK	1	49	20.34	20.33	20.29	20.27		
10	QPSK	1	9	20.30	20.33	20.34	20.37		
10	QPSK	25	12	20.11	20.23	20.26	20.12	21.5	0
10	QPSK	25	25	20.23	20.19	20.27	20.05		
10	QPSK	50	0	20.34	20.22	20.12	20.33		
10	16QAM	1	0	20.15	20.15	20.29	20.21	21.5	0
10	16QAM	1	25	20.20	20.25	20.15	20.18		
10	16QAM	1	49	20.24	20.31	20.27	20.31		
10	16QAM	25	0	20.18	20.14	20.23	20.14		
10	16QAM	25	12	20.20	20.26	20.29	20.14	21.5	0
10	16QAM	25	25	20.25	20.20	20.24	20.19		
10	16QAM	25	25	20.29	20.20	20.21	20.40		
10	64QAM	1	0	20.13	20.22	20.28	20.06	21.5	0
10	64QAM	1	25	20.12	20.20	20.27	20.24		
10	64QAM	1	49	20.01	20.11	20.13	20.19		
10	64QAM	25	0	19.60	19.70	19.29	19.69		
10	64QAM	25	12	19.67	19.51	19.41	19.26	21	0.5
10	64QAM	25	25	19.67	19.52	19.25	19.44		
10	64QAM	50	0	19.55	19.56	19.35	19.59		
10	256QAM	1	0	17.56	17.66	17.53	17.56		
10	256QAM	1	25	17.77	17.45	17.51	17.41	19	2.5
10	256QAM	1	49	17.50	17.64	17.35	17.46		
10	256QAM	25	0	17.77	17.64	17.49	17.65		
10	256QAM	25	12	17.63	17.67	17.42	17.56		
10	256QAM	25	25	17.67	17.52	17.50	17.65	19	2.5
10	256QAM	50	0	17.60	17.72	17.41	17.65		
Channel				56255	56310	56355	56395	Tune-up band (dBm)	MPR (dB)
Frequency (MHz)				56265	56275	56425	56395		
5	QPSK	1	0	20.38	20.35	20.27	20.23	21.5	0
5	QPSK	1	12	20.22	20.36	20.28	20.37		
5	QPSK	1	24	20.22	20.28	20.34	20.23		
5	QPSK	12	0	20.24	20.44	20.20	20.41		
5	QPSK	12	7	20.08	20.26	20.21	20.27	21.5	0
5	QPSK	12	13	20.14	20.29	20.27	20.12		
5	QPSK	25	0	20.37	20.22	20.31	20.28		
5	16QAM	1	0	20.18	20.24	20.17	20.24		
5	16QAM	1	12	20.19	20.28	20.15	20.11	21.5	0
5	16QAM	1	24	20.24	20.37	20.11	20.26		
5	16QAM	12	0	20.15	20.17	20.13	20.19		
5	16QAM	12	7	20.11	20.33	20.33	20.10		
5	64QAM	1	13	20.32	20.19	20.24	20.19	21.5	0
5	64QAM	25	0	20.22	20.28	20.33	20.28		
5	64QAM	1	0	20.24	20.19	20.26	20.09		
5	64QAM	1	12	20.10	20.18	20.24	20.31		
5	64QAM	1	24	20.04	20.21	20.16	20.09	21	0.5
5	64QAM	12	0	19.46	19.67	19.29	19.69		
5	64QAM	12	7	19.60	19.56	19.35	19.31		
5	64QAM	25	0	19.75	19.66	19.38	19.67		
5	256QAM	1	0	17.53	17.69	17.33	17.40	19	2.5
5	256QAM	1	12	17.74	17.44	17.54	17.40		
5	256QAM	1	24	17.60	17.71	17.51	17.46		
5	256QAM	12	0	17.58	17.67	17.43	17.56		
5	256QAM	12	7	17.65	17.68	17.41	17.48	19	2.5
5	256QAM	12	13	17.75	17.73	17.50	17.69		
5	256QAM	25	0	17.57	17.69	17.61	17.52		



Reduced Power Mode for EC17 Simultaneous

		GBM90 And EC17						
GBM90		Base Average Power (dBm)			Turnup	Frame Average Power (dBm)		
TX Channel		156	168	261	Limit	156	168	261
Frequency (MHz)		24.2	24.4	24.8	(dBm)	24.2	24.4	24.8
GBM1 Tx limit		20.16	20.23	20.13	30.00	20.16	20.23	20.13
OPRS1 Tx limit		20.21	20.27	20.18	30.00	20.21	20.27	20.18
OPRS2 Tx limit		20.00	20.00	20.10	20.00	20.00	20.10	20.00
OPRS3 Tx limit		20.02	20.10	20.08	27.00	21.70	21.90	21.82
OPRS1 Tx min		20.07	20.04	20.00	20.00	21.87	21.84	21.80
EDGE1 Tx limit		21.26	21.41	21.35	24.00	14.26	14.41	14.35
EDGE2 Tx limit		22.08	22.14	22.01	21.00	16.08	16.14	16.01
EDGE3 Tx limit		19.16	19.09	19.02	21.00	15.16	15.09	15.02
EDGE4 Tx limit		18.33	18.40	18.35	19.00	15.33	15.40	15.35

GBM1900 And EC17									
GBM1900		Best Average Power (dBm)			Frame-Average Power (dBm)				
TX Channel		512	861	810	Turn-up Limit	512	861	810	Turn-up Limit
Frequency (MHz)		10.2	10.2	10.2	(dBm)	10.2	10.2	10.2	(dBm)
GBM1 Tx limit		20.46	20.59	20.50	21.00	11.46	11.59	11.50	12.00
OPRS1 Tx limit		20.56	20.62	20.53	21.00	11.56	11.62	11.53	12.00
OPRS2 Tx limit		19.44	19.53	19.49	20.00	13.44	13.53	13.49	14.00
OPRS3 Tx limit		17.41	17.48	17.40	18.00	13.12	13.16	13.10	13.50
OPRS4 Tx limit		16.47	16.51	16.48	17.00	13.47	13.51	13.48	14.00
EDGE1 Tx limit		16.54	16.61	16.57	17.00	7.54	7.61	7.57	8.00
EDGE2 Tx limit		15.78	15.88	15.74	16.00	6.78	6.88	6.75	7.00
EDGE3 Tx limit		13.70	13.80	13.71	14.00	9.40	9.48	9.41	10.00
EDGE4 Tx limit		12.84	12.94	12.84	13.00	8.84	8.94	8.84	10.00

WCDMA II And EC17													WCDMA IV And EC17													WCDMA V And EC17												
Band		Power Backoff Power (dBm)			Power Backoff Power (dBm)			Power Backoff Power (dBm)			Power Backoff Power (dBm)			Power Backoff Power (dBm)			Power Backoff Power (dBm)			Power Backoff Power (dBm)			Power Backoff Power (dBm)			Power Backoff Power (dBm)												
TX Channel		8062	8066	8038	Turn-up Limit	1912	1413	1613	Turn-up Limit	4152	4162	4218	Turn-up Limit	4152	4162	4218	Turn-up Limit	4152	4162	4218	Turn-up Limit	4152	4162	4218	Turn-up Limit	4152	4162	4218										
Frequency (MHz)		2862	2866	2838	(dBm)	1912	1413	1613	(dBm)	4152	4162	4218	(dBm)	4152	4162	4218	(dBm)	4152	4162	4218	(dBm)	4152	4162	4218	(dBm)	4152	4162	4218										
ISPP Band1	AMR 12.7kps	13.86	13.06	13.80	14.00	15.23	15.34	15.19	16.00	21.16	21.26	21.20	22.50	21.16	21.26	21.20	22.50	21.16	21.26	21.20	22.50	21.16	21.26	21.20	22.50	21.16	21.26	21.20	22.50									
ISPP Band1	AMR 12.7kps	13.86	13.06	13.80	14.00	15.23	15.34	15.19	16.00	21.16	21.26	21.20	22.50	21.16	21.26	21.20	22.50	21.16	21.26	21.20	22.50	21.16	21.26	21.20	22.50	21.16	21.26	21.20	22.50									
ISPP Band1	ISPPA Subband 1	12.89	12.88	12.89	13.00	14.20	14.23	14.12	15.00	20.01	20.15	19.99	20.01	20.01	20.01	20.01	20.01	20.01	20.01	20.01	20.01	20.01	20.01	20.01	20.01	20.01	20.01	20.01	20.01									
ISPP Band1	ISPPA Subband 2	12.71	12.80	12.80	13.00	14.10	14.20	14.20	15.00	20.00	20.06	20.01	20.01	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00									
ISPP Band1	ISPPA Subband 3	12.88	12.47	12.15	13.00	13.50	13.14	13.07	14.00	19.42	19.73	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41	19.41									
ISPP Band1	ISPPA Subband 4	12.36	12.40	12.38	13.00	13.57	13.36	13.14	14.00	18.64	19.16	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60									
ISPP Band1	DC-HSDPA Subband 1	13.72	13.71	13.67	13.00	14.16	14.29	14.07	15.00	20.10	20.26	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97	19.97									
ISPP Band1	DC-HSDPA Subband 2	12.75	12.85	12.65	13.00	14.16	14.23	14.01	15.00	19.96	20.16	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90									
ISPP Band1	DC-HSDPA Subband 3	12.28	12.38	12.07	13.00	13.63	13.76	13.48	14.00	19.16	19.32	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00									
ISPP Band1	DC-HSDPA Subband 4	12.01	12.27	12.30	13.00	13.52	13.70	13.73	14.00	18.68	18.66	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.60									
ISPP Band1	ISPPA Subband 5	12.70	12.80	12.60	13.00	14.16	14.26	14.06	15.00	20.00	20.05	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00									
ISPP Band1	ISPPA Subband 6	12.86	12.89	12.80	13.00	12.60	12.26	12.10	13.00	17.67	18.18	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07									
ISPP Band1	ISPPA Subband 7	11.60	11.73	11.73	12.00	13.54	13.22	13.12	14.00	18.91	19.13	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90	18.90									
ISPP Band1	ISPPA Subband 8	10.76	10.51	10.63	11.00	12.01	12.32	11.80	13.00	17.95	18.20	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99	17.99									
ISPP Band1	ISPPA Subband 9	12.72	12.87	12.79	13.00	14.24	14.37	14.28	15.00	20.09	20.26	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08	20.08								



Band 2 Ant0 EC17														
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / F1/F2	Power Ch / F1/F2	Power Ch / F1/F2	Turn-up time (sec)	MPR (dB)						
Channel														
Frequency [MHz]														
20	QPSK	1	0	14.14	14.10	14.10	15	0						
20	QPSK	1	49	14.08	14.11	14.06								
20	QPSK	1	99	13.96	14.04	13.93								
20	QPSK	50	0	14.07	14.10	14.06								
20	QPSK	50	24	14.04	14.09	13.95								
20	QPSK	50	99	13.87	13.92	13.86	15	0						
20	QPSK	100	0	13.98	14.00	13.96								
20	16QAM	1	0	14.02	14.08	14.05								
20	16QAM	1	49	13.95	14.00	13.91								
20	16QAM	50	99	13.92	13.97	13.92								
20	16QAM	50	50	13.88	13.90	13.82	15	0						
20	16QAM	50	99	13.85	13.92	13.88								
20	16QAM	100	0	14.02	14.11	14.05								
20	16QAM	1	0	14.01	14.10	14.01								
20	16QAM	1	49	13.93	13.93	13.93								
20	16QAM	50	24	13.83	13.95	13.91	15	0						
20	16QAM	50	99	13.80	13.92	13.88								
20	16QAM	100	0	13.82	13.92	13.83								
20	256QAM	1	0	13.98	14.05	13.92								
20	256QAM	50	99	13.86	14.04	13.84								
20	256QAM	50	50	13.80	13.79	13.74	15	0						
20	256QAM	100	0	13.90	13.94	13.81								
Channel														
Frequency [MHz]														
15	QPSK	1	0	14.04	14.10	13.99					15	0		
15	QPSK	1	49	14.04	14.08	14.04								
15	QPSK	1	99	13.86	14.00	13.79								
15	QPSK	36	0	13.94	14.11	13.99								
15	QPSK	36	39	13.90	13.89	13.91								
15	QPSK	36	74	13.83	14.00	13.89	15	0						
15	QPSK	75	0	13.84	13.90	13.89								
15	16QAM	1	0	13.90	14.00	13.88								
15	16QAM	1	37	13.91	13.97	13.79								
15	16QAM	36	20	13.85	13.92	13.78								
15	16QAM	36	39	13.89	14.03	13.97	15	0						
15	16QAM	36	74	13.87	13.92	13.78								
15	16QAM	75	0	13.96	13.99	13.97								
15	16QAM	1	0	13.84	14.10	13.98								
15	16QAM	36	39	13.78	13.85	13.76								
15	16QAM	1	74	13.99	13.73	13.70	15	0						
15	16QAM	36	0	13.87	13.84	13.73								
15	16QAM	36	39	13.80	13.88	13.86								
15	16QAM	36	99	13.76	13.91	13.75								
15	16QAM	75	0	13.78	13.86	13.74								
15	256QAM	1	37	13.89	13.90	13.88	15	0						
15	256QAM	1	74	13.76	13.86	13.73								
15	256QAM	36	20	13.76	13.85	13.72								
15	256QAM	36	20	13.68	13.80	13.70								
15	256QAM	36	39	13.81	13.70	13.63								
15	256QAM	36	39	13.78	13.85	13.75	15	0						
15	256QAM	36	74	13.85	13.92	13.78								
15	256QAM	36	99	13.81	13.90	13.88								
15	256QAM	36	99	13.74	13.85	13.81								
15	256QAM	36	99	13.67	13.80	13.75								
Channel														
Frequency [MHz]														
10	QPSK	1	0	14.00	14.10	14.00	15	0						
10	QPSK	1	25	14.01	14.07	13.93								
10	QPSK	1	49	13.81	13.89	13.79								
10	QPSK	25	13	13.89	14.04	13.86								
10	QPSK	25	25	13.73	13.92	13.78								
10	QPSK	25	49	13.72	13.85	13.76	15	0						
10	QPSK	25	99	13.60	13.86	13.81								
10	16QAM	1	0	13.91	13.99	13.98								
10	16QAM	1	25	13.81	13.88	13.83								
10	16QAM	25	13	13.84	13.95	13.84								
10	16QAM	25	25	13.80	13.90	13.89	15	0						
10	16QAM	25	49	13.76	13.85	13.74								
10	16QAM	50	0	13.90	13.98	13.96								
10	16QAM	1	0	13.91	14.10	13.88								
10	16QAM	1	49	13.74	13.73	13.67								
10	16QAM	1	99	13.68	13.89	13.86	15	0						
10	16QAM	25	13	13.72	13.86	13.77								
10	16QAM	25	25	13.77	13.89	13.74								
10	16QAM	25	49	13.70	13.80	13.79								
10	16QAM	50	0	13.76	13.77	13.75								
10	16QAM	50	99	13.68	13.89	13.86	15	0						
10	16QAM	100	0	13.70	13.80	13.74								
10	16QAM	1	0	13.71	13.82	13.74								
10	16QAM	1	49	13.64	13.85	13.81								
10	16QAM	12	0	13.88	13.89	13.86								
10	16QAM	12	7	13.73	13.84	13.71	15	0						
10	16QAM	12	14	13.84	13.93	13.77								
10	16QAM	25	0	13.90	14.00	13.92								
10	16QAM	1	0	13.95	14.04	13.87								
10	16QAM	12	0	13.71	13.79	13.70								
10	16QAM	12	7	13.72	13.85	13.76	15	0						
10	16QAM	12	14	13.85	13.95	13.81								
10	16QAM	25	0	13.88	13.89	13.86								
10	16QAM	12	7	13.74	13.72	13.78								
10	16QAM	12	14	13.86	13.96	13.81								
10	16QAM	25	0	13.83	13.90	13.94	15	0						
10	16QAM	25	49	13.79	13.89	13.74								
Channel														
Frequency [MHz]														
3	QPSK	1	0	14.10	14.10	14.10					15	0		
3	QPSK	1	8	14.04	14.08	14.00								
3	QPSK	1	8	14.01	14.03	13.93								
3	QPSK	8	0	14.01	14.12	13.97								
3	QPSK	8	4	13.95	13.99	13.89								
3	QPSK	8	15	13.84	13.94	13.78	15	0						
3	QPSK	16	0	13.88	14.08	13.91								
3	16QAM	1	0	13.98	14.03	13.97								
3	16QAM	1	8	13.91	13.94	13.84								
3	16QAM	8	0	13.82	14.00	13.94								
3	16QAM	8	4	13.84	13.94	13.89	15	0						
3	16QAM	8	7	13.74	13.85	13.85								
3	16QAM	16	0	13.96	14.01	14.00								
3	16QAM	1	0	13.87	14.08	13.93								
3	16QAM	1	8	13.77	13.86	13.70								
3	16QAM	14	0	13.82	13.88	13.75	15	0						
3	16QAM	14	7	13.74	13.86	13.77								
3	256QAM	1	8	13.83	13.93	13.87								
3	256QAM	8	0	13.82	13.92	13.87								
3	256QAM	8	7	13.75	13.86	13.80								
3	256QAM	14	0	13.77	13.92	13.74	15	0						
3	256QAM	8	0	13.93	13.98	13.85								
3	256QAM	8	15	13.87	13.97	13.79								
3	256QAM	8	7	13.95	13.98	13.93								
3	256QAM	15	0	13.83	13.87	13.87								
Channel														
Frequency [MHz]														
14	QPSK	1	0	14.10	14.12	14.07	15	0						
14	QPSK	1	3	14.03	14.09	14.02								
14	QPSK	1	6	13.85	13.91	13.82								
14	QPSK	3	0	13.93	14.03	13.93								
14	QPSK	3	3	13.87	13.98	13.87								
14	QPSK	6	0	13.89	14.05	13.91	16	0						
14	QPSK	6	3	14.02	14.01	13.95								
14	16QAM	1	3	13.81	13.94	13.90								
14	16QAM	1	6	13.79	13.90	13.85								
14	16QAM	3	0	13.82	13.94	13.84								
14	16QAM	3	3	13.74	13.73	13.68	15	0						
14	16QAM	6	0	13.88	13.98	13.83								
14	16QAM	6	3	13.87	13.96	13.82								
14	16QAM	6	6	13.80	13.89	13.80								
14	16QAM	6	9	13.69	13.84	13.70								
14	16QAM	6	12	13.92	13.96	13.80	15	0						
14	16QAM	12	0	13.96	14.00	13.94								
14	16QAM	12	3	13.89	13.97	13.89								
14	16QAM	12	6	13.85	13.91	13.80								
14	16QAM	12	9	13.77	13.82	13.74								
14	16QAM	12	12	13.82	13.92	13.82	15	0						
14	16QAM	12	15	13.75	13.73	13.68								
14	16QAM	12	18	13.68	13.81	13.70								
14	16QAM	12	21	13.63	13.76	13.65								
14	16QAM	12	24	13.58	13.70	13.62								
14	256QAM	1	3	13.55	13.71	13.61	15	0						
14	256QAM	3	0	13.62	13.73	13.64								
14	256QAM	3	3	13.57	13.68	13.59								
14	256QAM	3	6	13.50	13.61	13.52								
14	256QAM	3	9	13.45	13.57	13.48								



Band 12 Ant0 Default												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MFR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.99	23.00	22.91			24	0		
10	QPSK	1	25	22.94	23.00	22.96						
10	QPSK	1	49	22.85	22.93	22.78			23	1		
10	QPSK	25	0	21.91	22.02	21.89						
10	QPSK	25	12	21.91	21.97	21.91			23	1		
10	QPSK	25	25	21.84	21.90	21.78						
10	QPSK	50	0	21.82	21.96	21.91			23	1		
10	16QAM	1	0	21.85	21.90	21.85						
10	16QAM	1	25	21.83	21.87	21.73			22	2		
10	16QAM	1	49	21.70	21.80	21.74						
10	16QAM	25	0	20.48	20.58	20.53			21	3		
10	16QAM	25	12	20.49	20.53	20.46						
10	16QAM	25	25	20.42	20.48	20.36			22	2		
10	16QAM	50	0	20.55	20.61	20.58						
10	64QAM	1	0	20.80	20.83	20.71			22	2		
10	64QAM	1	25	20.70	20.76	20.68						
10	64QAM	1	49	20.58	20.71	20.64			21	3		
10	64QAM	25	0	19.48	19.55	19.46						
10	64QAM	25	12	19.43	19.50	19.46			19	5		
10	64QAM	25	25	19.35	19.43	19.34						
10	256QAM	1	0	17.65	17.76	17.67			19	5		
10	256QAM	1	25	17.65	17.70	17.65						
10	256QAM	1	49	17.61	17.63	17.57			22	2		
10	256QAM	25	0	17.46	17.55	17.48						
10	256QAM	25	12	17.44	17.50	17.39			19	5		
10	256QAM	25	25	17.39	17.43	17.32						
10	256QAM	50	0	17.51	17.58	17.49			23	1		
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.91	22.91	22.80					24	0
5	QPSK	1	12	22.91	22.96	22.87						
5	QPSK	1	24	22.71	22.79	22.71			23	1		
5	QPSK	12	0	21.82	21.90	21.74						
5	QPSK	12	7	21.84	21.93	21.87			23	1		
5	QPSK	12	13	21.77	21.80	21.62						
5	QPSK	25	0	21.75	21.83	21.62			23	1		
5	16QAM	1	0	21.76	21.78	21.74						
5	16QAM	1	12	21.78	21.79	21.59			22	2		
5	16QAM	12	0	20.34	20.48	20.46						
5	16QAM	12	7	20.46	20.41	20.28			21	3		
5	16QAM	12	13	20.29	20.36	20.21						
5	16QAM	25	0	20.42	20.49	20.47			22	2		
5	64QAM	1	0	20.73	20.73	20.59						
5	64QAM	1	24	21.60	21.69	21.63			21	3		
5	64QAM	12	0	19.43	19.50	19.36						
5	64QAM	12	13	19.36	19.50	19.35			19	5		
5	256QAM	1	0	17.51	17.55	17.45						
5	256QAM	1	12	17.57	17.57	17.51			22	2		
5	256QAM	1	24	17.41	17.52	17.51						
5	256QAM	12	0	17.36	17.46	17.33			19	5		
5	256QAM	12	7	17.37	17.42	17.34						
5	256QAM	12	13	17.29	17.33	17.24			23	1		
5	256QAM	25	0	17.43	17.43	17.42						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.84	22.80	22.87			24	0		
3	QPSK	1	8	22.83	22.85	22.91						
3	QPSK	1	14	22.78	22.83	22.74			23	1		
3	QPSK	8	0	21.77	21.90	21.81						
3	QPSK	8	4	21.79	21.87	21.80			23	1		
3	QPSK	8	7	21.75	21.84	21.68						
3	16QAM	1	0	21.73	21.82	21.75			23	1		
3	16QAM	1	0	21.80	21.85	21.79						
3	16QAM	1	8	21.78	21.79	21.64			22	2		
3	16QAM	8	0	20.34	20.40	20.44						
3	16QAM	8	4	20.37	20.48	20.29			21	3		
3	16QAM	8	7	20.35	20.38	20.30						
3	64QAM	15	0	20.49	20.53	20.49			22	2		
3	64QAM	1	0	20.68	20.79	20.63						
3	64QAM	1	8	20.62	20.72	20.54			19	5		
3	64QAM	1	14	20.54	20.57	20.59						
3	64QAM	8	0	19.41	19.40	19.45			19	5		
3	64QAM	8	4	19.37	19.38	19.35						
3	64QAM	8	7	19.31	19.31	19.23			19	5		
3	64QAM	15	0	19.48	19.50	19.35						
3	256QAM	1	0	17.53	17.59	17.55			22	2		
3	256QAM	1	8	17.53	17.59	17.62						
3	256QAM	1	14	17.48	17.59	17.49			19	5		
3	256QAM	8	0	17.38	17.47	17.36						
3	256QAM	8	4	17.38	17.38	17.29			22	2		
3	256QAM	8	7	17.30	17.32	17.25						
3	256QAM	15	0	17.42	17.53	17.41			19	5		
3	256QAM	15	0	17.42	17.53	17.41						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.84	22.80	22.87			24	0		
1.4	QPSK	1	3	22.81	22.84	22.90						
1.4	QPSK	1	5	22.81	22.84	22.88			23	1		
1.4	QPSK	3	0	22.80	22.86	22.85						
1.4	QPSK	3	1	22.85	22.97	22.90			23	1		
1.4	QPSK	3	3	22.77	22.83	22.64						
1.4	QPSK	6	0	21.80	21.90	21.75			22	2		
1.4	16QAM	1	0	21.87	21.85	21.87						
1.4	16QAM	1	3	21.79	21.85	21.63			21	3		
1.4	16QAM	3	0	21.73	21.90	21.77						
1.4	16QAM	3	0	21.74	21.78	21.79			22	2		
1.4	16QAM	3	1	21.69	21.73	21.66						
1.4	16QAM	6	0	20.43	20.47	20.46			19	5		
1.4	64QAM	1	0	20.37	20.40	20.29						
1.4	64QAM	1	3	20.33	20.31	20.21			22	2		
1.4	64QAM	1	5	20.50	20.50	20.50						
1.4	64QAM	3	0	20.72	20.71	20.59			21	3		
1.4	64QAM	3	1	20.67	20.64	20.61						
1.4	64QAM	3	3	20.45	20.67	20.53			19	5		
1.4	64QAM	6	0	19.46	19.46	19.34						
1.4	256QAM	1	0	17.52	17.67	17.54			22	2		
1.4	256QAM	1	3	17.51	17.58	17.54						
1.4	256QAM	1	5	17.39	17.50	17.49			19	5		
1.4	256QAM	3	0	17.35	17.43	17.34						
1.4	256QAM	3	1	17.33	17.42	17.28			19	5		
1.4	256QAM	3	3	17.30	17.29	17.24						
1.4	256QAM	6	0	17.39	17.50	17.39						
1.4	256QAM	6	0	17.39	17.50	17.39						

Band 13 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	APR3 (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0		762				24	0
10	QPSK	1	25		23.00					
10	QPSK	1	49		22.93				23	1
10	QPSK	25	0		21.91					
10	QPSK	25	12		21.86				23	
10	16QAM	1	0		21.79				23	1
10	QPSK	50	0		22.05					
10	16QAM	1	49		22.31				23	1
10	16QAM	25	0		22.26					
10	16QAM	25	12		20.94				22	2
10	16QAM	50	0		20.89					
10	16QAM	50	25		20.82					
10	16QAM	50	0		21.02				22	2
10	16QAM	50	25		21.30					
10	16QAM	1	26		21.27				21	3
10	16QAM	1	49		21.20					
10	16QAM	25	12		19.87				21	
10	16QAM	25	25		19.80				19	5
10	25QAM	1	0		20.04					
10	25QAM	1	0		19.28				19	5
10	25QAM	1	25		19.23					
10	25QAM	25	0		18.23					
10	25QAM	25	12		18.16				19	5
10	25QAM	25	0		17.93					
10	25QAM	25	12		17.88				19	5
10	25QAM	25	25		17.81					
10	25QAM	50	0		19.04					
Channel Group				776.5	762	784.5	Turn-up limit (dBm)	APR3 (dB)		
5	QPSK	1	0	22.90	22.96	23.03			24	0
5	QPSK	1	12	22.75	22.85	22.65				
5	QPSK	1	24	22.74	22.82	22.67			23	1
5	QPSK	12	0	21.72	21.85	21.65				
5	QPSK	12	7	21.71	21.81	21.67				
5	QPSK	12	14	21.70	21.74	21.64			22	2
5	QPSK	25	0	21.88	22.00	21.87				
5	16QAM	1	0	22.11	22.24	22.04			21	3
5	16QAM	1	12	22.21	22.05	22.06				
5	16QAM	1	24	21.56	22.08	21.81			20	4
5	16QAM	12	0	20.74	20.80	20.65				
5	16QAM	12	7	20.77	20.62				20	4
5	16QAM	12	13	20.70	20.74	20.64				
5	16QAM	25	0	20.92	20.98	20.77			21	3
5	16QAM	25	12	21.13	21.20	21.07				
5	16QAM	1	12	21.07	21.01	21.23			19	5
5	16QAM	1	24	21.00	21.12	20.94				
5	16QAM	12	7	19.75	19.81	19.68			19	5
5	16QAM	12	7	19.78	19.82	19.68				
5	25QAM	1	13	19.73	19.77	19.63			19	5
5	25QAM	1	25	19.82	19.87	19.78				
5	25QAM	1	0	18.13	18.18	17.98			17	6
5	25QAM	1	12	18.00	18.12	17.94				
5	25QAM	12	12	17.90	18.00	17.91			17	6
5	25QAM	12	12	17.96	17.84	17.62				
5	25QAM	12	7	17.71	17.80	17.62			19	5
5	25QAM	12	13	17.68	17.63	17.58				
5	25QAM	25	0	17.77	17.91	17.70				



Band 17 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-on time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
708.5 710 711.5										
10	QPSK	1	0	22.92	22.97	22.81	24	0		
10	QPSK	1	25	22.85	22.92	22.81				
10	QPSK	1	49	22.81	22.85	22.81				
10	QPSK	25	12	21.40	21.50	21.41				
10	QPSK	25	25	21.29	21.43	21.30	23	1		
10	QPSK	50	0	21.48	21.51	21.50				
10	IQAM	1	0	21.72	21.82	21.67				
10	IQAM	1	25	21.73	21.77	21.65				
10	IQAM	1	49	21.55	21.70	21.42	23	1		
10	IQAM	25	0	20.48	20.61	20.38				
10	IQAM	25	12	20.59	20.56	20.38				
10	IQAM	25	25	20.25	20.49	20.25				
10	IQAM	50	0	20.42	20.54	20.38	22	2		
10	IQAM	1	0	20.71	20.80	20.60				
10	IQAM	1	25	20.60	20.75	20.52				
10	IQAM	1	49	20.55	20.68	20.51				
10	IQAM	25	0	19.49	19.56	19.37	21	3		
10	IQAM	25	12	19.44	19.51	19.30				
10	IQAM	25	25	19.37	19.44	19.27				
10	IQAM	50	0	19.43	19.49	19.34				
10	25QAM	1	0	17.63	17.76	17.55	19	5		
10	25QAM	1	25	17.66	17.71	17.53				
10	25QAM	1	49	17.53	17.64	17.41				
10	25QAM	25	0	17.43	17.55	17.33				
10	25QAM	25	12	17.38	17.50	17.29	19	5		
10	25QAM	25	25	17.29	17.43	17.19				
10	25QAM	50	0	17.48	17.52	17.37				
Channel										
2275.5 2276.5 2282.5										
708.5 710 713.5										
5	QPSK	1	0	22.88	22.90	22.72	24	0		
5	QPSK	1	12	22.82	22.89	22.74				
5	QPSK	1	24	22.69	22.75	22.71				
5	QPSK	12	0	21.43	21.41	21.46				
5	QPSK	12	7	21.31	21.41	21.37	23	1		
5	QPSK	12	13	21.17	21.36	21.19				
5	QPSK	25	0	21.36	21.41	21.47				
5	IQAM	1	0	21.61	21.78	21.61				
5	IQAM	1	12	21.61	21.71	21.55	23	1		
5	IQAM	1	24	21.45	21.58	21.35				
5	IQAM	12	0	20.34	20.57	20.29				
5	IQAM	12	7	20.44	20.46	20.25				
5	IQAM	12	13	20.55	20.61	20.41	22	2		
5	IQAM	25	0	20.34	20.48	20.28				
5	IQAM	1	0	20.67	20.73	20.50				
5	IQAM	1	12	20.55	20.61	20.41				
5	IQAM	1	24	20.48	20.57	20.35	19	5		
5	IQAM	12	0	19.45	19.44	19.33				
5	IQAM	12	7	19.33	19.37	19.27				
5	IQAM	12	13	19.23	19.37	19.13				
5	IQAM	25	0	19.33	19.34	19.29	19	5		
5	25QAM	1	0	17.62	17.86	17.67				
5	25QAM	1	12	17.61	17.59	17.48				
5	25QAM	1	24	17.40	17.57	17.32				
5	25QAM	12	0	17.20	17.45	17.16	19	5		
5	25QAM	12	7	17.27	17.36	17.19				
5	25QAM	12	13	17.20	17.30	17.13				
5	25QAM	25	0	17.43	17.44	17.38				

Band 25 Ant0 EC17												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-on time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	14.18	14.22	14.15	15	0				
20	QPSK	1	49	14.04	14.14	13.96						
20	QPSK	50	0	14.12	14.16	14.09						
20	QPSK	50	24	14.04	14.12	14.05						
20	QPSK	50	50	13.88	14.03	13.92	15	0				
20	QPSK	100	0	14.03	14.13	14.04						
20	IQAM	1	49	14.04	14.12	14.01						
20	IQAM	1	99	13.94	13.99	13.89						
20	IQAM	1	99	13.90	13.91	13.91	15	0				
20	IQAM	50	24	13.95	14.04	13.95						
20	IQAM	50	50	13.89	14.02	13.91						
20	IQAM	100	0	13.83	13.92	13.87						
20	25QAM	1	0	14.02	14.10	13.97	15	0				
20	25QAM	1	49	13.97	14.05	13.97						
20	25QAM	1	99	13.95	14.10	13.93						
20	25QAM	25	0	13.84	13.96	13.83						
20	25QAM	25	24	13.88	13.92	13.85	15	0				
20	25QAM	50	0	13.73	13.82	13.82						
20	25QAM	50	24	13.87	13.97	13.87						
20	25QAM	50	50	13.83	13.92	13.82						
Channel												
2611.5 26130 26615												
1807.5 1808 1807.5												
15	QPSK	1	0	14.07	14.16	14.01	15	0				
15	QPSK	1	74	13.89	14.00	13.97						
15	QPSK	36	0	14.09	14.05	14.02						
15	QPSK	36	12	13.92	14.00	13.97						
15	QPSK	36	36	13.75	13.88	13.77	15	0				
15	QPSK	75	0	13.94	13.99	13.89						
15	IQAM	1	0	13.99	14.11	14.01						
15	IQAM	1	37	13.97	14.04	13.94						
15	IQAM	1	49	13.86	13.96	13.87	15	0				
15	IQAM	36	0	13.84	13.99	13.90						
15	IQAM	36	20	13.80	13.92	13.82						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	14.09	14.00	14.04	15	0				
15	IQAM	1	0	14.00	14.10	13.92						
15	IQAM	1	49	13.75	13.94	13.76						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81	15	0				
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79	15	0				
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81	15	0				
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82	15	0				
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86	15	0				
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81	15	0				
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86	15	0				
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82	15	0				
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79	15	0				
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81	15	0				
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82	15	0				
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86	15	0				
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81	15	0				
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86	15	0				
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82	15	0				
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79	15	0				
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81	15	0				
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82	15	0				
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86	15	0				
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81	15	0				
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86	15	0				
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82	15	0				
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79	15	0				
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81	15	0				
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82	15	0				
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86	15	0				
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81	15	0				
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86	15	0				
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82	15	0				
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79	15	0				
15	IQAM	1	0	13.76	13.87	13.82						
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81	15	0				
15	IQAM	36	20	13.82	13.96	13.86						
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76	13.87	13.82	15	0				
15	IQAM	1	49	13.75	13.86	13.81						
15	IQAM	1	74	13.75	13.87	13.82						
15	IQAM	36	0	13.86	13.95	13.81						
15	IQAM	36	20	13.82	13.96	13.86	15	0				
15	IQAM	36	36	13.81	13.96	13.86						
15	IQAM	75	0	13.76	13.90	13.79						
15	IQAM	1	0	13.76								



Band 30 Ant0 EC17											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)			
Channel											
Frequency (MHz)											
15	QPSK	1	0	13.94	23.10		15	0			
15	QPSK	1	24	13.94	23.10						
15	QPSK	1	48	13.94	23.10						
15	QPSK	25	0	13.97	23.10						
15	QPSK	25	12	13.97	23.10		15	0			
15	QPSK	25	24	13.97	23.10						
15	QPSK	50	0	13.97	23.10						
15	16QAM	1	0	13.97	23.10						
15	16QAM	1	24	13.97	23.10		15	0			
15	16QAM	1	48	13.96	23.10						
15	16QAM	25	0	13.97	23.10						
15	16QAM	25	12	13.97	23.10						
15	16QAM	25	24	13.96	23.10		15	0			
15	16QAM	50	0	13.97	23.10						
15	16QAM	1	0	13.96	23.10						
15	16QAM	1	24	13.93	23.10						
15	16QAM	1	48	13.97	23.10		15	0			
15	16QAM	25	0	13.92	23.10						
15	16QAM	25	12	13.99	23.10						
15	16QAM	25	24	13.99	23.10						
15	16QAM	50	0	13.92	23.10		15	0			
15	QPSK	1	0	13.97	23.10						
15	QPSK	1	24	13.97	23.10						
15	QPSK	1	48	13.97	23.10						
15	16QAM	1	0	13.92	23.10		15	0			
15	16QAM	1	24	13.97	23.10						
15	16QAM	1	48	13.97	23.10						
15	16QAM	25	12	13.98	23.10						
15	16QAM	25	24	13.98	23.10		15	0			
15	16QAM	50	0	13.93	23.10						
15	16QAM	50	0	13.93	23.10						
Channel											
Frequency (MHz)											
5	QPSK	1	0	13.81	13.87	13.77	15	0			
5	QPSK	1	12	13.72	13.77	13.87					
5	QPSK	1	24	13.76	13.80	13.73					
5	QPSK	12	0	13.69	13.73	13.80					
5	QPSK	12	7	13.60	13.66	13.67	15	0			
5	QPSK	12	13	13.55	13.60	13.61					
5	QPSK	25	0	13.66	13.72	13.63					
5	16QAM	1	0	13.67	13.73	13.69					
5	16QAM	1	12	13.55	13.60	13.57	15	0			
5	16QAM	1	24	13.57	13.52	13.46					
5	16QAM	12	0	13.64	13.67	13.52					
5	16QAM	12	7	13.49	13.58	13.44					
5	16QAM	12	13	13.46	13.59	13.46	15	0			
5	16QAM	25	0	13.36	13.49	13.37					
5	16QAM	25	0	13.36	13.48	13.35					
5	16QAM	1	0	13.50	13.55	13.47					
5	16QAM	1	12	13.39	13.49	13.37	15	0			
5	16QAM	1	24	13.41	13.54	13.42					
5	16QAM	12	0	13.49	13.55	13.47					
5	16QAM	12	7	13.50	13.60	13.53					
5	16QAM	12	13	13.52	13.65	13.45	15	0			
5	16QAM	25	0	13.36	13.46	13.31					
5	16QAM	25	0	13.62	13.71	13.63					
5	16QAM	1	12	13.48	13.55	13.54					
5	16QAM	1	24	13.52	13.62	13.54	15	0			
5	16QAM	12	0	13.44	13.55	13.46					
5	16QAM	12	7	13.50	13.60	13.52					
5	16QAM	12	13	13.36	13.48	13.38					
5	16QAM	25	0	13.52	13.58	13.55					

Band 66 Ant0 EC17											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	15.12	17.23	17.75	16	0			
20	QPSK	1	48	15.13	15.18	15.03					
20	QPSK	1	96	15.03	15.17	15.03					
20	QPSK	50	0	15.08	15.19	15.07					
20	QPSK	24	0	15.13	15.13	15.03	16	0			
20	QPSK	50	50	14.96	15.08	14.93					
20	QPSK	100	0	15.02	15.13	15.07					
20	16QAM	1	0	14.95	15.10	15.08					
20	16QAM	1	48	15.08	15.18	15.08	16	0			
20	16QAM	1	96	14.92	15.01	14.79					
20	16QAM	50	0	15.10	15.10	15.05					
20	16QAM	50	24	14.99	15.05	14.87					
20	16QAM	50	50	14.91	15.01	14.89	16	0			
20	16QAM	100	0	14.86	15.04	14.83					
20	16QAM	1	0	14.80	14.92	14.85					
20	16QAM	1	48	15.00	15.07	15.01	16	0			
20	16QAM	1	96	14.96	15.07	14.89					
20	16QAM	50	0	14.82	14.90	14.87					
20	16QAM	50	24	14.82	14.94	14.98					
20	16QAM	50	50	14.89	14.80	14.72	16	0			
20	16QAM	100	0	14.97	14.97	14.87					
20	16QAM	1	0	14.83	15.04	15.03					
20	16QAM	1	37	14.91	14.94	14.87					
20	16QAM	1	74	14.76	14.70	14.73	16	0			
20	16QAM	36	0	14.80	14.94	14.85					
20	16QAM	36	20	14.85	14.84	14.85					
20	16QAM	36	39	14.85	14.84	14.81					
20	16QAM	75	0	14.82	14.85	14.82	16	0			
20	16QAM	1	0	14.82	14.87	14.85					
20	16QAM	1	37	14.93	15.02	14.92					
20	16QAM	1	74	14.88	14.99	14.87					
20	16QAM	36	0	14.85	14.96	14.85	16	0			
20	16QAM	36	20	14.72	14.87	14.89					
20	16QAM	36	39	14.64	14.76	14.69					
20	16QAM	75	0	14.85	14.87	14.81					
Channel											
Frequency (MHz)											
15	QPSK	1	0	15.08	15.19	15.16	16	0			
15	QPSK	1	37	15.09	15.08	15.01					
15	QPSK	1	74	14.95	15.04	14.93					
15	QPSK	36	0	14.94	15.12	14.86					
15	QPSK	36	39	14.99	15.08	14.95	16	0			
15	QPSK	75	0	14.91	15.02	14.85					
15	16QAM	1	0	14.80	15.04	14.85					
15	16QAM	1	37	15.05	15.15	15.02					
15	16QAM	1	74	14.99	15.04	15.01	16	0			
15	16QAM	36	0	14.99	15.04	15.01					
15	16QAM	36	20	14.85	14.93	14.73					
15	16QAM	36	39	14.93	14.97	14.87					
15	16QAM	75	0	14.91	14.91	14.87	16	0			
15	16QAM	1	0	14.83	15.04	15.03					
15	16QAM	1	37	14.91	14.94	14.87					
15	16QAM	1	74	14.76	14.70	14.73					
15	16QAM	36	0	14.80	14.94	14.85	16	0			
15	16QAM	36	20	14.85	14.84	14.85					
15	16QAM	36	39	14.85	14.84	14.81					
15	16QAM	36	39	14.83	14.85	14.75					
15	16QAM	75	0	14.82	14.85	14.82	16	0			
15	16QAM	1	0	14.82	14.87	14.85					
15	16QAM	1	37	14.93	15.02	14.92					
15	16QAM	1	74	14.88	14.99	14.87					
15	16QAM	36	0	14.85	14.96	14.85	16	0			
15	16QAM	36	20	14.72	14.87	14.89					
15	16QAM	36	39	14.64	14.76	14.69					
15	16QAM	75	0	14.85	14.87	14.81					
Channel											
Frequency (MHz)											
10	QPSK	1	0	17.15	17.45	17.75	16	0			
10	QPSK	1	24	15.03	15.04	15.02					
10	QPSK	1	48	14.91	15.11	14.80					
10	QPSK	25	0	15.01	15.06	15.01					
10	QPSK	25	12	15.01	15.01	14.97	16	0			
10	QPSK	25	25	14.89	15.04	14.88					
10	16QAM	1	0	14.89	15.00	14.98					
10	16QAM	1	24	14.93	14.93	14.91					
10	16QAM	1	48	14.95	15.09	14.88	16	0			
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90					
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.82	14.93	14.77	16	0			
10	16QAM	25	14	14.70	14.74	14.74					
10	16QAM	25	25	14.89	14.81	14.71					
10	16QAM	25	26	14.83	14.88	14.80					
10	16QAM	1	0	14.89	14.88	14.82	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	48	14.95	15.00	14.95					
10	16QAM	1	96	14.83	14.93	14.79					
10	16QAM	25	0	14.97	15.01	14.90	16	0			
10	16QAM	25	12	14.95	14.96	14.73					
10	16QAM	25	13	14.83	14.87	14.78					
10	16QAM	25	14	14.79	14.76	14.76					
10	16QAM	1	0	14.89	14.92	14.74	16	0			
10	16QAM	1	24	14.99	14.98	14.92					
10	16QAM	1	4								



Band 38 Ant0 EC17										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37465	38650	38150				
Frequency (MHz)										
20	QPSK	1	0	19.46	19.43	19.40	20.4	0		
20	QPSK	1	48	19.33	19.37	19.36				
20	QPSK	1	88	19.34	19.38	19.35				
20	QPSK	50	0	19.39	19.43	19.25				
20	QPSK	50	24	19.38	19.42	19.35	20.4	0		
20	QPSK	50	50	19.37	19.37	19.35				
20	QPSK	100	0	19.29	19.41	19.32				
20	16QAM	1	0	19.39	19.47	19.43				
20	16QAM	1	48	19.33	19.37	19.35	20.4	0		
20	16QAM	1	99	19.13	19.23	19.15				
20	16QAM	50	0	19.18	19.28	19.17				
20	16QAM	50	24	19.18	19.28	19.11				
20	16QAM	50	50	19.13	19.21	19.17	20.4	0		
20	16QAM	100	0	19.25	19.28	19.25				
20	64QAM	1	48	19.28	19.35	19.30				
20	64QAM	1	88	19.32	19.38	19.35				
20	64QAM	50	0	19.13	19.23	19.11	20.4	0		
20	64QAM	50	24	19.15	19.27	19.12				
20	64QAM	50	50	19.05	19.15	19.11				
20	64QAM	100	0	19.15	19.25	19.13				
20	256QAM	1	0	17.82	17.85	17.85	19	1.4		
20	256QAM	1	48	17.84	17.83	17.85				
20	256QAM	1	99	17.87	17.87	17.87				
20	256QAM	50	0	17.86	17.88	17.87				
20	256QAM	50	24	17.84	17.79	17.75	19	1.4		
20	256QAM	50	50	17.75	17.84	17.78				
20	256QAM	100	0	17.84	17.85	17.85				
20	256QAM	100	0	17.85	17.86	17.85				
Channel				37455	38650	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	19.13	19.24	19.13	20.4	0		
15	QPSK	1	37	19.22	19.38	19.23				
15	QPSK	1	74	19.21	19.34	19.23				
15	QPSK	36	0	19.35	19.31	19.25				
15	QPSK	36	20	19.28	19.32	19.21	20.4	0		
15	QPSK	36	37	19.22	19.32	19.23				
15	QPSK	75	0	19.06	19.32	19.17				
15	16QAM	1	0	19.27	19.35	19.37				
15	16QAM	1	74	19.02	19.14	19.05	20.4	0		
15	16QAM	36	0	19.07	19.25	19.08				
15	16QAM	36	36	19.02	19.12	19.05				
15	16QAM	36	39	19.05	19.07	19.06				
15	16QAM	75	0	19.19	19.27	19.18	20.4	0		
15	16QAM	75	0	19.05	19.15	19.05				
15	64QAM	1	37	19.21	19.29	19.15				
15	64QAM	1	74	19.01	19.16	19.06				
15	64QAM	36	0	19.05	19.15	19.05	20.4	0		
15	64QAM	36	36	19.05	19.15	19.05				
15	64QAM	36	39	19.01	19.20	19.06				
15	64QAM	75	0	19.08	19.14	19.06				
15	256QAM	1	0	17.78	17.82	17.78	19	1.4		
15	256QAM	1	37	17.82	17.83	17.83				
15	256QAM	1	74	17.73	17.81	17.78				
15	256QAM	36	0	17.81	17.83	17.83				
15	256QAM	36	36	17.84	17.89	17.85	19	1.4		
15	256QAM	36	39	17.87	17.86	17.85				
15	256QAM	75	0	17.67	17.82	17.67				
Channel				37465	38650	38150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	19.33	19.41	19.33	20.4	0		
10	QPSK	1	25	19.22	19.28	19.17				
10	QPSK	1	48	19.30	19.32	19.24				
10	QPSK	25	0	19.35	19.39	19.25				
10	QPSK	25	12	19.33	19.27	19.26	20.4	0		
10	QPSK	25	25	19.20	19.28	19.21				
10	QPSK	50	0	19.14	19.33	19.14				
10	HQAM	1	0	19.32	19.38	19.32				
10	HQAM	1	25	19.11	19.22	19.14	20.4	0		
10	HQAM	1	48	19.05	19.14	19.05				
10	HQAM	25	0	19.07	19.23	19.12				
10	HQAM	25	25	19.12	19.15	19.12				
10	HQAM	50	0	19.26	19.28	19.24	20.4	0		
10	HQAM	50	25	19.08	19.12	19.13				
10	HQAM	50	50	19.26	19.28	19.24				
10	HQAM	25	25	19.08	19.12	19.12				
10	HQAM	1	25	19.20	19.29	19.15	20.4	0		
10	HQAM	1	48	19.08	19.20	19.12				
10	HQAM	25	0	19.05	19.20	19.05				
10	HQAM	25	12	19.10	19.19	19.03				
10	HQAM	25	25	19.04	19.06	19.03	20.4	0		
10	HQAM	50	0	19.11	19.22	19.15				
10	256QAM	1	0	17.87	17.89	17.87				
10	256QAM	1	25	17.91	17.86	17.79				
10	256QAM	1	48	17.74	17.82	17.85	19	1.4		
10	256QAM	25	0	17.91	17.87	17.74				
10	256QAM	25	12	17.75	17.84	17.77				
10	256QAM	25	25	17.85	17.71	17.77				
10	256QAM	50	0	17.89	17.83	17.71	19	1.4		
10	256QAM	50	0	17.85	17.85	17.85				
Channel				37475	38650	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	19.40	19.42	19.17	20.4	0		
5	QPSK	1	12	19.20	19.26	19.18				
5	QPSK	1	24	19.21	19.24	19.25				
5	QPSK	12	0	19.28	19.40	19.17				
5	QPSK	12	7	19.27	19.35	19.25	20.4	0		
5	QPSK	12	13	19.20	19.23	19.23				
5	QPSK	25	0	19.25	19.27	19.25				
5	16QAM	1	0	19.28	19.43	19.25				
5	16QAM	1	12	19.18	19.26	19.17	20.4	0		
5	16QAM	1	24	19.04	19.17	19.09				
5	16QAM	12	0	19.09	19.19	19.12				
5	16QAM	12	7	19.08	19.15	19.05				
5	16QAM	12	13	19.09	19.07	19.05	20.4	0		
5	16QAM	25	0	19.25	19.29	19.25				
5	64QAM	1	0	19.28	19.31	19.23				
5	64QAM	1	12	19.16	19.30	19.18				
5	64QAM	12	0	19.19	19.19	19.12	20.4	0		
5	64QAM	12	13	19.02	19.08	19.05				
5	64QAM	25	0	19.04	19.12	19.02				
5	64QAM	25	12	17.81	17.82	17.82				
5	256QAM	1	12	17.78	17.88	17.77	19	1.4		
5	256QAM	1	24	17.74	17.83	17.82				
5	256QAM	12	7	17.78	17.87	17.88				
5	256QAM	12	7	17.75	17.81	17.69				
5	256QAM	12	13	17.67	17.80	17.74	19	1.4		
5	256QAM	25	0	17.87	17.87	17.88				



Band 2 Ant1 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Fires	Power High Ch./Fires	Power Peak Ch./Fires	Turn-up time (s)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	14.21	14.30	14.16			
20	QPSK	1	49	14.10	14.22	14.10	15	0	
20	QPSK	1	99	14.07	14.11	14.04			
20	QPSK	50	0	14.07	14.30	14.14			
20	QPSK	50	24	14.08	14.30	14.14			
20	QPSK	50	50	14.01	14.07	14.08	15	0	
20	QPSK	100	0	14.14	14.18	14.04			
20	16QAM	1	0	14.06	14.18	14.02			
20	16QAM	1	49	13.98	14.11	14.06	15	0	
20	16QAM	1	99	13.96	14.04	13.92			
20	16QAM	50	0	14.06	14.18	14.02			
20	16QAM	50	24	13.96	13.98	13.93	15	0	
20	16QAM	50	50	13.94	14.06	13.94			
20	16QAM	100	0	13.98	14.05	13.92			
20	16QAM	100	24	13.96	14.07	13.91	15	0	
20	16QAM	100	50	13.94	14.01	13.94			
20	256QAM	1	0	14.13	14.17	14.10			
20	256QAM	1	49	14.00	14.12	13.96	15	0	
20	256QAM	1	99	13.96	14.06	13.93			
20	256QAM	50	0	14.02	14.09	14.00			
20	256QAM	50	24	13.95	14.07	13.91	15	0	
20	256QAM	50	50	13.94	14.01	13.94			
20	256QAM	100	0	13.98	14.05	13.92			
20	256QAM	100	24	13.96	14.07	13.91	15	0	
20	256QAM	100	50	13.93	14.02	13.95			
20	256QAM	150	0	13.97	14.04	13.90			
20	256QAM	150	24	13.95	14.07	13.91	15	0	
Channel									
Frequency (MHz)									
15	QPSK	1	0	13.97	13.99	13.92			
15	QPSK	1	49	14.10	14.20	14.11	15	0	
15	QPSK	1	99	14.03	14.18	13.99			
15	QPSK	1	74	14.04	14.01	13.97			
15	QPSK	36	0	13.93	14.12	13.91			
15	QPSK	36	24	14.00	14.18	13.99	15	0	
15	QPSK	36	50	13.90	14.03	13.92			
15	16QAM	1	0	13.94	14.09	13.91			
15	16QAM	1	49	13.94	14.01	13.89	15	0	
15	16QAM	1	99	13.87	13.99	14.01			
15	16QAM	36	0	13.95	14.03	13.89			
15	16QAM	36	24	13.76	13.86	13.78	15	0	
15	16QAM	36	50	13.94	14.01	13.92			
15	16QAM	75	0	14.00	14.10	13.94			
15	64QAM	1	0	14.09	14.07	14.04			
15	64QAM	1	49	13.96	14.03	13.96	15	0	
15	64QAM	1	99	13.96	14.03	13.96			
15	64QAM	1	74	13.92	13.92	13.91			
15	64QAM	36	0	13.96	13.97	13.89			
15	64QAM	36	24	13.95	13.98	13.92	15	0	
15	64QAM	36	50	13.98	13.95	13.93			
15	64QAM	75	0	13.96	13.93	13.83			
15	256QAM	1	0	13.92	13.97	13.91			
15	256QAM	1	49	13.95	14.01	14.05	15	0	
15	256QAM	1	99	13.94	14.04	14.02			
15	256QAM	36	0	13.96	14.06	14.03			
15	256QAM	36	24	13.79	13.77	13.79	15	0	
15	256QAM	36	50	13.79	13.89	13.88			
15	256QAM	75	0	13.96	13.91	13.85			
Channel									
Frequency (MHz)									
10	QPSK	1	0	14.01	14.10	14.01			
10	QPSK	1	25	14.01	14.07	13.98	15	0	
10	QPSK	1	49	14.01	14.01	13.92			
10	QPSK	25	0	14.02	14.12	14.02			
10	QPSK	25	12	14.02	14.12	14.02	15	0	
10	QPSK	25	25	13.97	13.94	13.91			
10	QPSK	25	49	14.02	14.08	13.97			
10	16QAM	1	0	14.00	14.06	13.95			
10	16QAM	1	25	13.94	14.05	13.94	15	0	
10	16QAM	1	49	13.94	14.05	13.94			
10	16QAM	25	0	14.00	14.02	13.93			
10	16QAM	25	12	13.71	13.92	13.78	15	0	
10	16QAM	25	25	13.90	13.96	13.89			
10	16QAM	50	0	13.97	14.14	14.04			
10	16QAM	50	12	13.91	13.92	13.84	15	0	
10	16QAM	50	25	13.96	14.03	14.05			
10	64QAM	1	0	13.98	14.03	14.05			
10	64QAM	1	49	13.91	14.02	13.98	15	0	
10	64QAM	1	99	13.92	13.98	13.89			
10	64QAM	25	0	13.94	13.95	13.86			
10	64QAM	25	12	13.82	13.92	13.84	15	0	
10	64QAM	25	25	13.91	13.98	13.89			
10	64QAM	50	0	13.93	13.98	13.86			
10	256QAM	1	0	13.94	13.97	13.91			
10	256QAM	1	49	13.91	14.08	14.02	15	0	
10	256QAM	1	99	13.95	14.02	14.05			
10	256QAM	25	0	13.90	13.96	13.81			
10	256QAM	25	12	13.86	13.96	13.81	15	0	
10	256QAM	25	25	13.91	13.97	13.79			
10	256QAM	50	0	13.96	13.91	13.82			
Channel									
Frequency (MHz)									
5	QPSK	1	0	14.01	14.07	14.01			
5	QPSK	1	12	14.02	14.14	13.95	15	0	
5	QPSK	1	24	14.02	13.97	13.90			
5	QPSK	12	0	13.96	14.12	14.02			
5	QPSK	12	7	13.96	14.04	14.00			
5	QPSK	12	13	13.94	13.95	13.91	15	0	
5	QPSK	24	0	13.96	14.05	13.92			
5	16QAM	1	0	14.03	14.02	13.98			
5	16QAM	1	12	13.94	13.99	13.96	15	0	
5	16QAM	1	24	13.87	13.97	13.91			
5	16QAM	12	0	13.92	14.04	13.91			
5	16QAM	12	7	13.74	13.96	13.78	15	0	
5	16QAM	12	13	13.96	13.94	13.89			
5	16QAM	25	0	14.03	14.12	14.00			
5	64QAM	1	0	14.02	14.11	14.03			
5	64QAM	1	12	13.97	14.09	13.93	15	0	
5	64QAM	1	24	13.92	13.96	13.83			
5	64QAM	12	0	13.93	14.00	13.86			
5	64QAM	12	7	13.87	13.96	13.89	15	0	
5	64QAM	12	13	13.83	13.93	13.89			
5	64QAM	25	0	13.94	13.99	13.83			
5	256QAM	1	0	13.94	13.92	13.91			
5	256QAM	1	12	13.95	14.10	14.07	15	0	
5	256QAM	1	24	13.96	14.08	14.01			
5	256QAM	12	0	13.96	14.09	13.95			
5	256QAM	12	7	13.97	13.93	13.92	15	0	
5	256QAM	12	13	13.96	13.97	13.94			
5	256QAM	25	0	13.95	14.00	13.89			
Channel									
Frequency (MHz)									
3	QPSK	1	0	14.13	14.11	14.13			
3	QPSK	1	8	14.02	14.15	14.02	15	0	
3	QPSK	1	14	13.95	14.00	13.89			
3	QPSK	8	0	14.02	14.09	13.92			
3	QPSK	8	4	13.95	14.12	14.03			
3	QPSK	8	7	13.94	13.92	13.85	15	0	
3	QPSK	14	0	14.00	14.09	13.96			
3	16QAM	1	0	13.96	14.07	13.96			
3	16QAM	1	8	13.91	14.07	14.03	15	0	
3	16QAM	1	14	13.90	14.01	13.83			
3	16QAM	8	0	14.01	14.03	13.96			
3	16QAM	8	4	13.78	13.86	13.77	15	0	
3	16QAM	8	7	13.82	14.02	13.84			
3	16QAM	16	0	14.02	14.13	14.02			
3	16QAM	16	8	13.99	14.10	14.01	15	0	
3	64QAM	1	0	13.90	14.09	13.92			
3	64QAM	1	14	13.93	13.99	13.82			
3	64QAM	8	0	13.93	14.01	13.84	15	0	
3	64QAM	8	4	13.83	14.01	13.91			
3	64QAM	8	7	13.87	13.92	13.79			
3	64QAM	16	0	13.90	13.91	13.85			
3	256QAM	1	0	13.95	14.03	13.87			
3	256QAM	1	8	13.95	14.03	13.87	15	0	
3	256QAM	1	14	13.97	14.07	14.02			
3	256QAM	8	0	14.02	14.02	14.02			
3	256QAM	8	4	13.92	13.89	13.85			
3	256QAM	8	7	13.92	13.94	13.82	15	0	
3	256QAM	16	0	13.96	13.95	13.91			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	14.06	14.16	14.02			
1.4	QPSK	1	3	14.00	14.09	14.03			
1.4	QPSK	1	5	14.02	13.96	13.91	15	0	
1.4	QPSK	3	0	13.95	14.11	14.07			
1.4	QPSK	3	1	13					



Band 12 Ant1 EC17											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-on Int. (dB)	MPE (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.74	20.78	20.71	21.5	0			
10	QPSK	1	25	20.58	20.60	20.62					
10	QPSK	1	49	20.50	20.62	20.62					
10	QPSK	25	0	20.68	20.72	20.66					
10	QPSK	25	12	20.54	20.68	20.58					
10	QPSK	25	25	20.50	20.64	20.51	21.5	0			
10	QPSK	50	0	20.53	20.67	20.62					
10	16QAM	1	0	20.59	20.73	20.61					
10	16QAM	1	25	20.58	20.67	20.53					
10	16QAM	1	49	20.45	20.56	20.42					
10	16QAM	25	0	20.58	20.68	20.54	21.5	0			
10	16QAM	25	12	20.50	20.54	20.49					
10	16QAM	25	25	20.41	20.52	20.46					
10	16QAM	50	0	20.52	20.61	20.51					
10	16QAM	1	0	20.55	20.67	20.63					
10	8QAM	1	25	20.57	20.67	20.63	21.5	0			
10	8QAM	1	49	20.52	20.58	20.46					
10	8QAM	25	0	19.83	19.96	19.89					
10	8QAM	25	12	19.76	19.91	19.80					
10	8QAM	25	25	19.72	19.84	19.71					
10	8QAM	50	0	19.75	19.82	19.75	21	0.5			
10	256QAM	1	25	19.76	19.79	19.70					
10	256QAM	1	25	19.05	19.13	19.10					
10	256QAM	1	49	17.93	18.06	17.99					
10	256QAM	25	0	17.78	17.83	17.79					
10	256QAM	25	12	17.82	17.88	17.75	19	2.5			
10	256QAM	25	25	17.71	17.81	17.74					
10	256QAM	50	0	17.69	17.83	17.72					
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.84	20.89	20.82	21.5	0			
5	QPSK	1	12	20.51	20.58	20.52					
5	QPSK	1	24	20.37	20.50	20.43					
5	QPSK	12	0	20.62	20.60	20.53					
5	QPSK	12	7	20.43	20.52	20.55					
5	QPSK	12	13	20.40	20.51	20.48	21.5	0			
5	QPSK	25	0	20.45	20.62	20.46					
5	16QAM	1	0	20.50	20.67	20.61					
5	16QAM	1	12	20.45	20.59	20.46					
5	16QAM	1	24	20.35	20.50	20.43					
5	16QAM	12	0	20.52	20.62	20.43	21.5	0			
5	16QAM	12	7	20.37	20.50	20.45					
5	16QAM	12	13	20.31	20.49	20.42					
5	16QAM	25	0	20.49	20.55	20.38					
5	8QAM	1	0	20.43	20.63	20.53					
5	8QAM	1	12	20.46	20.56	20.50	21.5	0			
5	8QAM	1	24	20.37	20.43	20.35					
5	8QAM	12	0	19.77	19.90	19.81					
5	8QAM	12	7	19.66	19.84	19.74					
5	8QAM	12	13	19.58	19.73	19.62					
5	8QAM	25	0	19.64	19.75	19.64	19	2.5			
5	256QAM	1	12	17.64	17.67	17.61					
5	256QAM	1	12	17.58	17.60	17.54					
5	256QAM	1	24	17.50	17.60	17.57					
5	256QAM	12	7	17.58	17.70	17.61					
5	256QAM	12	13	17.58	17.67	17.61	19	2.5			
5	256QAM	25	0	17.62	17.77	17.69					
Channel											
Frequency (MHz)											
3	QPSK	1	0	20.62	20.68	20.64	21.5	0			
3	QPSK	1	8	20.47	20.53	20.58					
3	QPSK	1	14	20.43	20.57	20.41					
3	QPSK	8	0	20.59	20.69	20.60					
3	QPSK	8	4	20.48	20.52	20.47					
3	QPSK	8	7	20.41	20.59	20.42	21.5	0			
3	QPSK	14	0	20.46	20.54	20.52					
3	16QAM	1	0	20.45	20.63	20.56					
3	16QAM	1	8	20.52	20.61	20.44					
3	16QAM	1	14	20.40	20.48	20.35					
3	16QAM	8	4	20.35	20.42	20.35	21.5	0			
3	16QAM	8	7	20.30	20.39	20.34					
3	16QAM	15	0	20.43	20.48	20.42					
3	8QAM	1	0	20.47	20.65	20.54					
3	8QAM	1	8	20.53	20.58	20.60					
3	8QAM	1	14	20.39	20.48	20.35	21	0.5			
3	8QAM	8	0	19.70	19.88	19.75					
3	8QAM	8	4	19.73	19.82	19.65					
3	8QAM	8	7	19.63	19.80	19.68					
3	8QAM	15	0	19.65	19.74	19.70					
3	256QAM	1	0	19.12	19.10	19.05	19	2.5			
3	256QAM	1	8	17.99	18.10	18.07					
3	256QAM	1	14	17.86	17.99	17.92					
3	256QAM	8	0	17.71	17.80	17.65					
3	256QAM	8	4	17.68	17.78	17.69					
3	256QAM	8	7	17.68	17.75	17.65	19	2.5			
3	256QAM	15	0	17.56	17.71	17.69					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	20.68	20.70	20.62	21.5	0			
1.4	QPSK	1	3	20.50	20.54	20.49					
1.4	QPSK	1	5	20.35	20.51	20.41					
1.4	QPSK	3	0	20.62	20.60	20.52					
1.4	QPSK	3	1	20.51	20.55	20.43					
1.4	QPSK	3	3	20.35	20.58	20.47	21.5	0			
1.4	QPSK	8	0	20.48	20.59	20.54					
1.4	16QAM	1	0	20.46	20.61	20.56					
1.4	16QAM	1	3	20.48	20.62	20.46					
1.4	16QAM	1	5	20.32	20.51	20.34					
1.4	16QAM	3	0	20.44	20.52	20.43	21.5	0			
1.4	16QAM	3	1	20.42	20.41	20.43					
1.4	16QAM	3	3	20.28	20.40	20.25					
1.4	16QAM	8	0	20.39	20.55	20.36					
1.4	8QAM	1	0	20.49	20.57	20.51					
1.4	8QAM	1	3	20.47	20.61	20.49	21.5	0			
1.4	8QAM	1	5	20.46	20.47	20.42					
1.4	8QAM	3	0	20.47	20.62	20.58					
1.4	8QAM	3	1	20.47	20.62	20.58					
1.4	8QAM	3	3	20.45	20.52	20.38					
1.4	256QAM	1	0	18.09	18.14	18.04	21	0.5			
1.4	256QAM	1	3	17.94	18.09	17.96					
1.4	256QAM	1	5	17.83	17.96	17.89					
1.4	256QAM	3	0	17.65	17.79	17.71					
1.4	256QAM	3	1	17.76	17.79	17.61					
1.4	256QAM	3	3	17.67	17.97	17.63	19	2.5			
1.4	256QAM	6	0	17.65	17.71	17.68					
1.4	256QAM	6	0	17.65	17.71	17.68					

Band 13 Ant1 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-on (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.47			22	0	
10	QPSK	1	25	21.38					
10	QPSK	1	49	21.22					
10	QPSK	25	0	21.40					
10	QPSK	25	12	21.23					
10	QPSK	25	25	21.26			22	0	
10	QPSK	50	0	21.31					
10	16QAM	1	0	21.42					
10	16QAM	1	25	21.36					
10	16QAM	1	49	21.16					
10	16QAM	25	0	21.37			22	0	
10	16QAM	25	12	21.20					
10	16QAM	25	25	21.23					
10	16QAM	50	0	21.32					
10	8QAM	1	0	21.40					
10	8QAM	1	25	21.38			22	0	
10	8QAM	1	49	21.19					
10	8QAM	25	0	20.43					
10	8QAM	25	12	20.43					
10	8QAM	25	25	20.36					
10	8QAM	50	0	20.51					
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.34	21.44	21.38	21	0	
5	QPSK	1	12	21.13	21.21	21.19			
5	QPSK	1	24	21.19	21.30	20.26			
5	QPSK	1	36	21.17	21.26	21.07			
5	QPSK	12	0	21.10	21.23	21.16			
5	QPSK	12	12	20.29	21.13	21.03	22	0	
5	QPSK	25	0	21.11	21.23	21.12			
5	16QAM	1	0	21.19	21.31	21.21			
5	16QAM	1	12	21.24	21.30	21.24			
5	16QAM	1	24	20.39	21.10	21.10			
5	16QAM	12	0	21.18	21.26	21.20	21	0	
5	16QAM	12	12	21.01	21.14	21.17			
5	16QAM	12	24	21.12	21.16	21.06			
5	16QAM	25	0	21.14	21.28	21.19			
5	8QAM	1	0	21.26	21.31	21.26			
5	8QAM	1	12	21.15	21.29	21.17	21	0	
5	8QAM	1	24	21.05	21.14	21.05			
5	8QAM	12	0	20.29	20.39	20.28			
5	8QAM	12	12	20.22	20.29	20.26			
5	8QAM	25	0	20.53	20.66	20.54			
5	25QAM	1	0	18.54	18.68	18.63	19	3	
5	25QAM	1	12	18.41	18.43	18.34			
5	25QAM	1	24	18.43	18.43	18.34			
5	25QAM	12	0	18.48	18.48	18.39			
5	25QAM	12	12	18.38	18.39	18.31			
5	25QAM	25	0	18.26	18.35	18.30	19	3	
5	25QAM	25	12	18.42	18.42	18.34			
5	25QAM	25	24	18.41	18.41	18.34			
5	25QAM	50	0	18.41	18.41	18.34			
5	25QAM	50	12	18.38	18.38	18.31			

Band 25 Ant1 ECI7																							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPR (dB)															
Channel																							
Frequency (MHz)																							
20	QPSK	1	0	14.23	14.31	14.19	15	0															
20	QPSK	1	49	14.15	14.20	14.25																	
20	QPSK	1	99	14.10	14.05	14.02																	
20	QPSK	50	0	14.14	14.23	14.16																	
20	QPSK	50	24	14.16	14.20	14.15	15	0															
20	QPSK	50	50	14.07	14.08	14.07																	
20	QPSK	100	0	14.24	14.25	14.12																	
20	16QAM	1	0	14.14	14.27	14.13																	
20	16QAM	1	49	14.00	14.14	14.07	15	0															
20	16QAM	1	99	13.98	14.08	13.96																	
20	16QAM	50	0	14.16	14.18	14.03																	
20	16QAM	50	24	14.02	14.17	14.00																	
20	16QAM	50	50	14.00	14.00	14.01	15	0															
20	16QAM	100	0	14.00	14.10	14.00																	
20	256QAM	1	0	14.06	14.07	13.98																	
20	256QAM	1	49	14.10	14.15	14.11																	
20	256QAM	1	99	14.09	14.25	14.10	15	0															
20	256QAM	1	49	14.06	14.22	14.08																	
20	256QAM	50	24	14.03	14.08	14.05																	
20	256QAM	50	50	13.99	14.09	14.05																	
20	256QAM	100	0	14.05	14.08	14.00																	
Channel																							
Frequency (MHz)																							
18	QPSK	1	0	14.08	14.24	14.13	15	0															
18	QPSK	1	37	14.11	14.28	14.12																	
18	QPSK	1	74	14.00	13.98	13.97																	
18	QPSK	36	0	14.01	14.16	14.13																	
18	QPSK	36	25	14.02	14.11	14.04	15	0															
18	QPSK	36	39	13.97	14.04	13.93																	
18	QPSK	75	0	14.10	14.11	14.04																	
18	16QAM	1	0	14.08	14.08	14.03																	
18	16QAM	1	37	13.95	14.05	13.97	15	0															
18	16QAM	1	74	13.96	14.06	13.95																	
18	16QAM	36	0	14.04	14.04	13.90																	
18	16QAM	36	25	13.79	13.83	13.78																	
18	16QAM	36	39	14.04	14.09	14.00	15	0															
18	16QAM	75	0	14.08	14.19	13.99																	
18	84QAM	1	0	14.13	14.10	14.07																	
18	84QAM	1	37	13.90	14.03	13.90																	
18	84QAM	1	74	13.98	14.14	14.03	15	0															
18	84QAM	36	0	14.05	14.12	14.00																	
18	84QAM	36	25	13.98	13.98	13.90																	
18	84QAM	36	39	13.98	13.95	13.91																	
18	256QAM	1	0	13.95	13.97	13.91	15	0															
18	256QAM	1	37	14.06	14.12	13.99																	
18	256QAM	1	74	13.99	14.19	14.03																	
18	256QAM	1	99	14.04	14.04	13.95																	
18	256QAM	36	25	13.90	13.93	13.97	15	0															
18	256QAM	36	39	13.91	13.97	13.96																	
18	256QAM	75	0	14.02	13.98	13.99																	
Channel																							
Frequency (MHz)																							
18	QPSK	1	0	14.10	14.28	14.10	15	0															
18	QPSK	1	25	14.01	14.21	14.09																	
18	QPSK	1	49	13.95	14.02	13.92																	
18	QPSK	36	0	14.03	14.09	14.00																	
18	QPSK	25	12	14.10	14.17	14.08	15	0															
18	QPSK	25	25	13.92	14.00	13.99																	
18	QPSK	50	0	14.02	14.08	14.01																	
18	16QAM	1	0	14.02	14.16	14.09																	
18	16QAM	1	25	13.96	14.07	13.95	15	0															
18	16QAM	1	49	13.96	13.98	13.93																	
18	16QAM	25	0	14.03	14.12	13.92																	
18	16QAM	25	12	13.84	13.83	13.80																	
18	16QAM	36	0	13.93	14.01	13.96	15	0															
18	16QAM	50	0	14.01	14.15	13.99																	
18	84QAM	1	0	14.20	14.08	14.02																	
18	84QAM	1	24	13.90	14.10	13.99																	
18	84QAM	1	49	13.91	14.07	13.99	15	0															
18	84QAM	25	0	14.05	14.09	13.97																	
18	84QAM	25	12	13.90	14.02	13.94																	
18	84QAM	25	25	13.95	13.97	13.95																	
18	84QAM	50	0	13.95	14.06	13.96	15	0															
18	256QAM	1	0	13.87	14.01	13.88																	
18	256QAM	1	25	14.05	14.14	13.96																	
18	256QAM	1	49	13.95	14.10	13.96																	
18	256QAM	25	0	14.04	14.17	14.01	15	0															
18	256QAM	25	12	13.89	13.91	13.96																	
18	256QAM	25	25	13.89	13.96	13.99																	
18	256QAM	50	0	13.96	14.01	13.92																	
Channel																							
Frequency (MHz)																							
5	QPSK	1	0	14.10	14.21	14.10	15	0															
5	QPSK	1	12	14.00	14.17	14.06																	
5	QPSK	1	24	13.96	14.06	14.01																	
5	QPSK	12	0	14.03	14.07	14.13																	
5	QPSK	12	7	14.12	14.16	14.07	15	0															
5	QPSK	12	13	13.97	13.99	13.98																	
5	QPSK	25	0	14.19	14.21	14.02																	
5	16QAM	1	0	14.07	14.23	14.00																	
5	16QAM	1	12	13.85	14.00	13.96	15																

Band 66 Ant1 EC17														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 190872	Power Middle Ch / Freq. 191232	Power High Ch / Freq. 191592	Turn-up time (sec)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	14.11	14.10	14.08	15	0						
20	QPSK	1	49	14.07	14.15	14.12								
20	QPSK	1	99	14.05	14.08	13.95								
20	QPSK	50	0	14.03	14.10	14.02								
20	QPSK	50	24	14.05	14.08	14.07	15	0						
20	QPSK	50	50	13.99	14.10	13.91								
20	QPSK	100	0	14.08	14.12	13.94								
20	16QAM	1	0	14.02	14.05	13.98								
20	16QAM	1	49	13.93	14.11	13.97	15	0						
20	16QAM	1	99	14.00	13.95	13.99								
20	16QAM	50	0	13.96	14.07	13.96								
20	16QAM	50	24	13.78	13.99	13.80								
20	16QAM	50	50	13.93	14.02	13.95	15	0						
20	16QAM	100	0	14.07	14.12	14.10								
20	64QAM	1	0	14.07	14.12	14.10								
20	64QAM	1	49	13.90	14.10	13.98								
20	64QAM	1	99	13.93	13.96	13.82	15	0						
20	64QAM	50	0	14.03	14.07	14.03								
20	64QAM	50	24	13.98	14.09	13.90								
20	64QAM	50	50	13.88	14.05	13.97								
20	256QAM	100	0	13.92	13.96	14.01	15	0						
20	256QAM	1	49	13.95	13.96	13.86								
20	256QAM	1	99	14.10	14.09	14.10								
20	256QAM	50	24	13.93	14.05	13.89								
20	256QAM	50	50	13.88	14.05	13.97	15	0						
20	256QAM	100	0	13.92	13.96	14.01								
Channel														
Frequency (MHz)														
15	QPSK	1	0	14.07	14.06	13.93	15	0						
15	QPSK	1	37	14.01	14.09	13.98								
15	QPSK	1	74	13.95	14.00	13.82								
15	QPSK	36	0	13.95	14.02	13.94								
15	QPSK	36	20	13.98	14.01	14.02	15	0						
15	QPSK	36	39	13.87	14.00	13.88								
15	QPSK	75	0	14.02	14.06	13.93								
15	16QAM	1	0	13.97	13.99	13.92								
15	16QAM	1	37	13.79	14.02	13.88	15	0						
15	16QAM	1	74	13.87	13.99	13.86								
15	16QAM	36	0	13.91	14.02	13.87								
15	16QAM	36	20	13.71	13.80	13.68								
15	16QAM	75	0	14.03	14.10	13.98	15	0						
15	64QAM	1	0	13.95	13.99	14.04								
15	64QAM	1	37	13.81	13.99	13.88								
15	64QAM	1	74	13.80	13.97	13.73								
15	64QAM	36	0	13.86	13.95	13.96	15	0						
15	64QAM	36	20	13.90	13.95	13.82								
15	64QAM	36	39	13.85	13.95	13.84								
15	64QAM	75	0	13.84	13.82	13.81								
15	256QAM	1	0	13.80	13.85	13.75	15	0						
15	256QAM	1	37	13.91	14.01	13.99								
15	256QAM	1	74	13.99	13.99	14.06								
15	256QAM	36	0	13.90	13.95	13.86								
15	256QAM	36	20	13.78	13.95	13.80	15	0						
15	256QAM	36	39	13.79	13.95	13.88								
15	256QAM	75	0	13.85	13.92	13.92								
Channel														
Frequency (MHz)														
10	QPSK	1	0	14.07	14.06	14.02	15	0						
10	QPSK	1	25	13.95	14.04	14.03								
10	QPSK	1	49	13.99	13.97	13.82								
10	QPSK	25	0	13.97	14.01	13.88								
10	QPSK	25	12	14.04	13.97	13.99	15	0						
10	QPSK	25	25	13.89	13.89	13.80								
10	QPSK	50	0	13.97	13.97	13.87								
10	16QAM	1	0	13.97	13.99	13.93								
10	16QAM	1	25	13.90	14.08	13.87	15	0						
10	16QAM	1	49	13.81	13.91	13.76								
10	16QAM	25	0	13.84	13.93	13.88								
10	16QAM	25	12	13.87	13.85	13.72								
10	16QAM	50	0	14.04	14.10	13.88	15	0						
10	64QAM	1	0	14.00	14.03	14.03								
10	64QAM	1	25	13.82	14.04	13.88								
10	64QAM	1	49	13.86	13.89	13.74								
10	64QAM	25	0	13.93	14.01	13.95	15	0						
10	64QAM	25	12	13.91	14.00	13.87								
10	64QAM	25	25	13.79	13.90	13.82								
10	64QAM	25	12	13.74	13.85	13.78								
10	64QAM	50	0	13.88	14.05	14.04	15	0						
10	64QAM	50	0	14.04	14.10	13.88								
10	256QAM	1	0	13.99	14.06	13.82								
10	256QAM	25	12	13.81	13.84	13.86								
10	256QAM	25	25	13.99	14.06	13.82	15	0						
10	256QAM	25	12	13.81	13.90	13.90								
10	256QAM	25	25	13.78	13.85	13.86								
10	256QAM	50	0	13.65	13.89	13.92								
20	QPSK	1	0	13.9977	13.9222	13.9402	15	0						
20	QPSK	1	49	13.9977	13.9222	13.9402								
20	QPSK	1	99	13.9977	13.9222	13.9402								
20	QPSK	50	0	13.9977	13.9222	13.9402								
5	QPSK	1	0	14.05	14.06	13.95	15	0						
5	QPSK	1	12	13.93	14.00	14.01								
5	QPSK	1	24	13.90	14.05	13.88								
5	QPSK	12	0	13.93	14.02	13.91								
5	QPSK	12	7	13.97	14.00	14.03	15	0						
5	QPSK	12	13	13.87	14.00	13.81								
5	QPSK	25	0	14.02	13.95	13.90								
5	16QAM	1	0	13.95	14.02	13.85								
5	16QAM	1	12	13.79	14.02	13.84	15	0						
5	16QAM	1	24	13.89	13.85	13.77								
5	16QAM	12	0	13.84	13.90	13.86								
5	16QAM	12	7	13.65	13.88	13.75								
5	16QAM	12	13	13.82	14.00	13.88	15	0						
5	16QAM	25	0	14.02	14.10	13.95								
5	64QAM	1	0	14.02	14.01	14.07								
5	64QAM	1	12	13.78	13.95	13.80								
5	64QAM	1	24	13.80	13.89	13.77	15	0						
5	64QAM	12	0	13.88	13.97	13.90								
5	64QAM	12	7	13.90	13.95	13.79								
5	64QAM	12	13	13.78	13.90	13.75								
5	64QAM	25	0	13.81	13.84	13.86	15	0						
5	256QAM	1	0	13.79	13.92	13.76								
5	256QAM	1	12	13.91	13.90	14.06								
5	256QAM	1	24	14.04	14.04	14.07								
5	256QAM	12	0	13.99	13.99	14.01	15	0						
5	256QAM	12	7	13.87	13.95	13.88								
5	256QAM	12	13	13.85	13.95	13.86								
5	256QAM	25	0	13.75	13.85	13.86								
5	256QAM	25	12	13.75	13.85	13.86	15	0						
5	256QAM	25	25	13.65	13.88	13.98								
Channel														
Frequency (MHz)														
3	QPSK	1	0	17.115	17.144	17.175	15	0						
3	QPSK	1	0	16.94	16.10	13.93								
3	QPSK	1	14	17.09	17.09	14.00								
3	QPSK	1	28	17.04	17.04	13.95								
3	QPSK	1	42	17.02	17.02	13.91	15	0						
3	QPSK	1	56	16.96	16.11	13.93								
3	QPSK	1	70	16.90	16.90	13.87								
3	QPSK	3	0	17.07	17.07	13.90								
3	QPSK	16	0	16.99	16.02	13.88	15	0						
3	QPSK	16	16	16.98	16.02	13.88								
3	QPSK	16	32	16.96	16.02	13.88								
3	QPSK	16	48	16.94	16.02	13.88								
3	16QAM	1	0	13.88	14.07	13.90	15	0						
3	16QAM	1	14	13.88	13.85	13.81								
3	16QAM	1	28	13.85	13.85	13.85								
3	16QAM	1	42	13.84	13.84	13.84								
3	16QAM	1	56	13.84	14.04	13.87	15	0						
3	16QAM	1	70	13.87	13.95	13.88								
3	16QAM	1	84	13.87	13.95	13.88								
3	16QAM	3	0	13.85	14.12	13.93								
3	16QAM	1	0	14.04	13.98	14.00	15	0						
3	16QAM	1	14	13.77	14.24	13.87								
3	16QAM	1	28	13.97	13.97	13.93								
3	16QAM	1	42	13.94	13.94	13.79								
3	16QAM	1	56	13.94	13.94	13.85	15	0						
3	16QAM	1	70	13.91	14.01	13.93								
3	16QAM	1	84	13.91	14.01	13.93								
3	16QAM	3	0	13.79	13.96	13.81								
3	16QAM	1	0	13.84	13.86	13.81	15	0						
3	16QAM	1	14	13.85	13.88	13.81								
3	16QAM	1	28	13.86	13.88	13.81								
3	16QAM	1	42	13.87	13.88	13.81								
3	16QAM	1	56	13.90	14.01	14.00	15	0						
3	16QAM	1	70	13.92	14.00	13.93								
3	16QAM	1	84	13.92	14.00	13.93								
3	16QAM	3	0	13.89	14.02	13.86								
3	16QAM	1	0	14.09	14.08	13.98	15	0						
3	16QAM	1	14	13.90	14.01	14.00								
3	16QAM	1	28	13.90	14.01	14.00								
3	16QAM	1	42	13.89	14.00	13.98								
3	16QAM	1	56	13.79	13.84	13.88	15	0						
3	16QAM	1	70	13.89	13.99	13.98								
3	16QAM	1	84	13.89	13.99	13.98								
3	16QAM	3	0	13.84	13.96	13.95								



Band 38 Ant1 EC17										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37650	38050	38150				
20	QPSK	1	0	14.26	14.31	14.31	15.4	0		
20	QPSK	1	40	14.27	14.32	14.32				
20	QPSK	1	80	14.19	14.28	14.28				
20	QPSK	50	0	14.20	14.30	14.22				
20	QPSK	50	24	14.20	14.29	14.29	15.4	0		
20	QPSK	50	50	14.11	14.22	14.11				
20	QPSK	100	0	14.14	14.25	14.24				
20	QPSK	100	1	14.20	14.30	14.28				
20	16QAM	1	40	14.20	14.26	14.19	16.4	0		
20	16QAM	1	80	14.37	14.32	14.33				
20	16QAM	50	24	14.20	14.29	14.19				
20	16QAM	50	50	14.12	14.23	14.03				
20	16QAM	100	0	14.23	14.27	14.23	15.4	0		
20	16QAM	100	1	14.23	14.27	14.23				
20	16QAM	50	24	14.05	14.19	14.14				
20	16QAM	50	50	14.20	14.29	14.20				
20	256QAM	1	0	14.19	14.28	14.18	15.4	0		
20	256QAM	1	40	14.20	14.27	14.15				
20	256QAM	50	24	14.15	14.26	14.15				
20	256QAM	50	50	14.06	14.20	14.07				
20	256QAM	100	0	14.17	14.27	14.14	15.4	0		
20	256QAM	100	1	14.17	14.27	14.14				
20	256QAM	50	24	14.16	14.26	14.16				
20	256QAM	50	50	14.07	14.21	14.07				
Channel				37650	38050	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				37650	38050	38200				
15	QPSK	1	0	14.25	14.38	14.43	15.4	0		
15	QPSK	1	37	14.20	14.37	14.27				
15	QPSK	1	74	14.13	14.30	14.14				
15	QPSK	36	20	14.15	14.26	14.05				
15	QPSK	36	57	14.04	14.15	14.04	15.4	0		
15	QPSK	75	0	14.08	14.13	14.19				
15	QPSK	75	1	14.13	14.28	14.25				
15	QPSK	36	37	14.04	14.15	14.11				
15	16QAM	1	74	13.97	14.06	13.98	15.4	0		
15	16QAM	36	20	14.06	14.13	14.03				
15	16QAM	36	20	14.05	14.21	14.07				
15	16QAM	36	39	13.95	14.13	14.07				
15	16QAM	75	0	14.05	14.19	14.13	15.4	0		
15	16QAM	1	0	14.15	14.29	14.14				
15	16QAM	1	37	13.99	14.16	14.11				
15	16QAM	1	74	14.03	14.18	14.13				
15	64QAM	36	0	14.12	14.21	14.04	15.4	0		
15	64QAM	36	37	14.02	14.17	14.11				
15	64QAM	36	74	14.05	14.21	14.06				
15	64QAM	36	75	14.05	14.21	14.05				
15	256QAM	1	0	14.12	14.15	14.10	15.4	0		
15	256QAM	1	37	14.08	14.18	14.13				
15	256QAM	1	74	14.20	14.28	14.08				
15	256QAM	36	20	14.09	14.19	14.03				
15	256QAM	36	39	14.09	14.26	14.03	15.4	0		
15	256QAM	36	74	14.05	14.20	14.02				
15	256QAM	75	0	14.09	14.28	14.02				
15	256QAM	75	1	14.09	14.28	14.02				
Channel				37650	38050	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				37650	38050	38200				
10	QPSK	1	0	14.27	14.30	14.31	15.4	0		
10	QPSK	1	25	14.23	14.28	14.17				
10	QPSK	1	50	14.15	14.27	14.12				
10	QPSK	26	0	14.13	14.22	14.07				
10	QPSK	26	12	14.11	14.16	14.02	15.4	0		
10	QPSK	26	25	14.04	14.13	13.97				
10	QPSK	50	0	14.06	14.19	14.07				
10	QPSK	50	12	14.06	14.19	14.06				
10	16QAM	1	25	14.12	14.17	14.09	15.4	0		
10	16QAM	1	40	13.97	14.08	14.00				
10	16QAM	26	0	14.16	14.21	14.09				
10	16QAM	26	12	14.11	14.11	14.08				
10	16QAM	26	25	13.94	14.13	14.00	15.4	0		
10	16QAM	50	0	14.13	14.19	14.08				
10	16QAM	50	12	14.09	14.18	14.06				
10	64QAM	1	0	14.18	14.28	14.20				
10	64QAM	1	25	14.10	14.16	14.07	15.4	0		
10	64QAM	1	50	14.04	14.14	14.05				
10	64QAM	26	0	14.15	14.23	14.11				
10	64QAM	26	12	14.09	14.18	14.06				
10	64QAM	26	25	14.17	14.18	14.14	15.4	0		
10	64QAM	50	0	14.13	14.19	14.08				
10	64QAM	50	12	14.15	14.19	14.06				
10	256QAM	1	25	14.12	14.20	14.00				
10	256QAM	1	40	14.22	14.23	14.11	15.4	0		
10	256QAM	26	0	14.09	14.18	14.03				
10	256QAM	26	12	14.05	14.17	14.02				
10	256QAM	26	25	14.06	14.16	14.03				
10	256QAM	50	0	14.06	14.16	14.02	15.4	0		
10	256QAM	50	12	14.06	14.16	14.02				
10	256QAM	50	25	14.06	14.16	14.02				
10	256QAM	50	50	14.06	14.16	14.02				
Channel				37775	38050	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				37775	38050	38225				
5	QPSK	1	0	14.28	14.34	14.34	15.4	0		
5	QPSK	1	12	14.20	14.37	14.23				
5	QPSK	1	24	14.13	14.32	14.13				
5	QPSK	12	0	14.10	14.22	14.19				
5	QPSK	12	7	14.05	14.24	14.03	15.4	0		
5	QPSK	12	13	14.04	14.23	14.03				
5	QPSK	25	0	13.99	14.14	14.12				
5	QPSK	25	7	14.04	14.14	14.12				
5	16QAM	1	12	14.14	14.16	14.08	15.4	0		
5	16QAM	1	24	14.03	14.12	13.96				
5	16QAM	12	7	14.09	14.14	14.05				
5	16QAM	12	7	14.09	14.14	14.09				
5	16QAM	12	13	13.99	14.14	14.11	15.4	0		
5	16QAM	25	0	14.12	14.22	14.10				
5	16QAM	25	7	14.05	14.20	14.03				
5	64QAM	1	12	14.04	14.15	14.09				
5	64QAM	1	24	14.16	14.22	14.10	15.4	0		
5	64QAM	12	7	14.04	14.15	14.04				
5	64QAM	12	13	14.03	14.12	14.07				
5	64QAM	12	13	14.11	14.21	13.99				
5	256QAM	1	0	14.13	14.14	14.05	15.4	0		
5	256QAM	1	12	14.06	14.15	14.03				
5	256QAM	1	24	14.16	14.22	14.10				
5	256QAM	12	7	14.03	14.12	14.07				
5	256QAM	12	13	14.03	14.12	14.07	15.4	0		
5	256QAM	25	0	14.08	14.14	14.07				



Band 41 Ant2															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPR (dB)				
Channel															
Frequency (MHz)															
20	QPSK	1	0	39755	40185	40620	41050	41480	41910	24	0				
20	QPSK	1	49	22.43	22.57	22.61	22.65	22.69	22.73						
20	QPSK	1	49	22.65	22.84	22.73	22.86	22.82	22.82						
20	QPSK	50	0	21.58	21.67	21.57	21.70	21.74	21.74						
20	QPSK	50	24	21.79	21.79	21.87	21.81	21.72	21.72						
20	QPSK	100	0	21.62	21.61	21.51	21.72	21.68	21.68	23	1				
20	16QAM	1	0	21.81	21.81	21.82	21.78	21.81	21.81						
20	16QAM	1	49	21.79	21.80	21.86	21.79	21.77	21.77						
20	16QAM	1	96	21.71	21.77	21.82	21.68	21.74	21.74						
20	16QAM	50	0	20.83	20.89	20.91	20.91	20.90	20.90						
20	16QAM	50	0	20.80	20.72	20.83	20.77	20.86	20.86	22	2				
20	16QAM	50	50	20.68	20.69	20.77	20.69	20.63	20.63						
20	16QAM	100	0	20.67	20.68	20.72	20.67	20.63	20.63						
20	16QAM	100	1	20.63	20.54	20.55	20.55	20.58	20.58						
20	16QAM	1	49	20.64	20.46	20.58	20.50	20.50	20.53						
20	16QAM	1	49	20.64	20.46	20.58	20.50	20.53	20.53	22	2				
20	16QAM	1	96	20.58	20.50	20.55	20.55	20.58	20.58						
20	16QAM	50	0	19.87	19.90	20.01	19.85	19.82	19.92						
20	16QAM	50	24	19.77	19.75	19.88	19.73	19.75	19.75						
20	16QAM	50	50	19.83	19.86	19.93	19.86	19.83	19.79						
20	16QAM	100	0	19.80	19.91	19.88	19.84	19.84	19.84	21	3				
20	16QAM	100	1	17.74	17.74	17.82	17.74	17.72	17.72						
20	256QAM	1	0	17.74	17.74	17.82	17.74	17.72	17.72						
20	256QAM	1	49	17.74	17.74	17.82	17.74	17.72	17.72						
20	256QAM	1	96	17.80	17.80	17.89	17.80	17.73	17.73						
20	256QAM	50	24	17.85	17.82	17.96	17.87	17.84	17.84	19	5				
20	256QAM	50	50	17.76	17.81	17.89	17.80	17.78	17.78						
20	256QAM	100	0	17.76	17.81	17.89	17.80	17.78	17.78						
Channel															
Frequency (MHz)															
15	QPSK	1	0	39725	40175	40620	41068	41515	41960	24	0				
15	QPSK	1	25	22.52	22.54	22.54	22.56	22.56	22.56						
15	QPSK	1	37	22.55	22.86	22.67	22.61	22.56	22.56						
15	QPSK	1	74	22.46	22.53	22.59	22.56	22.56	22.56						
15	QPSK	36	0	21.44	21.56	21.63	21.72	21.65	21.65						
15	QPSK	36	20	21.69	21.70	21.73	21.70	21.64	21.64	23	1				
15	QPSK	75	0	21.52	21.51	21.66	21.67	21.65	21.65						
15	16QAM	1	0	21.68	21.67	21.81	21.72	21.67	21.67						
15	16QAM	1	37	21.59	21.70	21.80	21.64	21.65	21.65						
15	16QAM	1	74	21.63	21.63	21.73	21.63	21.64	21.64						
15	16QAM	36	0	20.74	20.81	20.84	20.85	20.84	20.84	22	2				
15	16QAM	36	20	20.69	20.61	20.71	20.59	20.59	20.59						
15	16QAM	75	0	20.77	20.84	20.86	20.73	20.82	20.82						
15	16QAM	75	0	20.65	20.63	20.61	20.62	20.58	20.58						
15	16QAM	75	0	20.65	20.63	20.61	20.62	20.58	20.58						
15	16QAM	1	37	20.48	20.43	20.50	20.43	20.40	20.43	22	2				
15	16QAM	1	74	20.61	20.61	20.66	20.61	20.61	20.61						
15	16QAM	36	0	19.73	19.78	19.87	19.82	19.77	19.77						
15	16QAM	36	20	19.72	19.69	19.79	19.62	19.62	19.62						
15	16QAM	75	0	19.74	19.79	19.87	19.74	19.74	19.74						
15	16QAM	75	0	19.70	19.69	19.80	19.63	19.60	19.60	21	3				
15	16QAM	75	0	19.70	19.69	19.80	19.63	19.60	19.60						
15	256QAM	1	0	17.66	17.66	17.76	17.66	17.66	17.66						
15	256QAM	1	37	17.49	17.50	17.66	17.50	17.50	17.50						
15	256QAM	1	74	17.55	17.47	17.56	17.50	17.60	17.60						
15	256QAM	36	0	17.86	17.86	17.86	17.86	17.86	17.86	19	5				
15	256QAM	36	20	17.84	17.88	17.88	17.82	17.70	17.70						
15	256QAM	36	50	17.66	17.74	17.86	17.68	17.62	17.62						
15	256QAM	75	0	17.76	17.82	17.87	17.81	17.77	17.77						
Channel															
Frequency (MHz)															
10	QPSK	1	0	39700	40160	40620	41080	41540	42000	24	0				
10	QPSK	1	25	22.52	22.54	22.59	22.60	22.61	22.61						
10	QPSK	1	49	22.65	22.86	22.67	22.61	22.56	22.56						
10	QPSK	25	0	21.46	21.57	21.51	21.72	21.64	21.64						
10	QPSK	25	12	21.68	21.65	21.81	21.66	21.58	21.58						
10	QPSK	25	25	21.56	21.63	21.76	21.72	21.67	21.67	23	1				
10	QPSK	50	0	21.49	21.57	21.80	21.58	21.54	21.54						
10	16QAM	1	0	21.78	21.75	21.79	21.70	21.67	21.67						
10	16QAM	1	25	21.70	21.75	21.79	21.72	21.67	21.67						
10	16QAM	1	49	21.68	21.82	21.69	21.64	21.61	21.61	23	1				
10	16QAM	1	96	20.78	20.81	20.92	20.78	20.76	20.76						
10	16QAM	25	12	20.75	20.80	20.91	20.73	20.68	20.68						
10	16QAM	25	25	20.64	20.54	20.71	20.62	20.56	20.56						
10	16QAM	50	0	20.78	20.78	20.86	20.74	20.68	20.68	22	2				
10	16QAM	1	0	20.50	20.49	20.51	20.48	20.53	20.53						
10	16QAM	1	25	20.42	20.40	20.54	20.43	20.44	20.44						
10	16QAM	1	49	20.49	20.29	20.43	20.42	20.34	20.34						
10	16QAM	25	0	19.75	19.81	19.88	19.74	19.82	19.82	21	3				
10	16QAM	25	12	19.72	19.86	19.81	19.59	19.68	19.68						
10	16QAM	25	25	19.74	19.74	19.83	19.71	19.67	19.67						
10	16QAM	50	0	19.71	19.88	19.80	19.75	19.79	19.79						
10	256QAM	1	0	17.42	17.42	17.42	17.42	17.42	17.42	19	5				
10	256QAM	1	25	17.48	17.46	17.50	17.47	17.54	17.54						
10	256QAM	1	49	17.49	17.57	17.57	17.53	17.52	17.52						
10	256QAM	25	0	17.43	17.43	17.43	17.43	17.43	17.43						
10	256QAM	25	12	17.83	17.76	17.81	17.81	17.78	17.78	19	5				
10	256QAM	25	25	17.83	17.73	17.79	17.72	17.68	17.68						
10	256QAM	50	0	17.73	17.77	17.86	17.68	17.67	17.67						
Channel															
Frequency (MHz)															
5	QPSK	1	0	39675	40140	40620	41080	41565	42040	24	0				
5	QPSK	1	12	22.42	22.55	22.64	22.56	22.52	22.52						
5	QPSK	1	25	22.48	22.58	22.63	22.56	22.56	22.56						
5	QPSK	12	0	21.47	21.64	21.56	21.63	21.62	21.62						
5	QPSK	12	7	21.69	21.65	21.72	21.74	21.67	21.67						
5	QPSK	25	0	21.58	21.61	21.76	21.61	21.58	21.58	23	1				
5	QPSK	25	0	21.58	21.61	21.76	21.61	21.58	21.58						
5	QPSK	25	0	21.58	21.61	21.76	21.61	21.58	21.58						
5	QPSK	25	0	21.58	21.61	21.76	21.61	21.58	21.58						
5	QPSK	25	12	21.74	21.74	21.81	21.81	21.74	21.74	23	1				
5	QPSK	25	12	21.74	21.74	21.81	21.81	21.74	21.74						
5	QPSK	25	12	21.74	21.74	21.81	21.81	21.74	21.74						
5	QPSK	25	12	21.74	21.74	21.81	21.81	21.74	21.74						
5	16QAM	1	0	20.59	20.73	21.74	21.55	21.63	21.63	22	2				
5	16QAM	1	12	20.59	20.73	20.76	20.69	20.65	20.65						
5	16QAM	12	7	20.67	20.65	20.76	20.68	20.62	20.62						
5	16QAM	12	13	20.54	20.62	20.69	20.62	20.59	20.59						
5	16QAM	25	0	20.73	20.76	20.82	20.76	20.73	20.73	22	2				
5	16QAM	1	0	20.55	20.42	20.52	20.40	20.47	20.47						
5	16QAM	1	12	20.42	20.43	20.47	20.36	20.40	20.40						
5	16QAM	1	25	20.27	20.27	20.37	20.27	20.27	20.27						
5	16QAM	12	0	19.74	19.78	19.88	19.82	19.85	19.85	21	3				
5	16QAM	12	7	19.73	19.78	19.76	19.73	19.73	19.73						
5	16QAM	12	13	19.78	19.83	19.87	19.84	19.75	19.75						
5	16QAM	25	0	19.77	19.83	19.87	19.84	19.75	19.75						
5	256QAM	1	0	17.40	17.40	17.40	17.40	17.40	17.40	19	5				
5	256QAM	1	12	17.48	17.51	17.58	17.58	17.58	17.58						
5	256QAM	1	24	17.54	17.51	17.57	17.53	17.51	17.51						
5	256QAM	12	0	17.48	17.51	17.58	17.58	17.58	17.58						
5	256QAM	12	7	17.56	17.57	17.56	17.58	17.78	17.78	19	5				
5	256QAM	12	13	17.56	17.57	17.56	17.58	17.78	17.78						
5															



Band 48_FCC Ant4 EC17											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				56540	56630	56760	56850				
Frequency (MHz)				5660	56700	56740	56800				
20	QPSK	1	0	14.70	14.62	14.78	14.60	15.5	0		
20	QPSK	1	49	14.77	14.74	14.77	14.73				
20	QPSK	1	49	14.74	14.61	14.61	14.73				
20	QPSK	50	0	14.60	14.77	14.70	14.64				
20	QPSK	50	24	14.65	14.75	14.64	14.68	15.5	0		
20	QPSK	50	50	14.60	14.65	14.66	14.58				
20	QPSK	100	0	14.71	14.74	14.65	14.68				
20	16QAM	1	0	14.66	14.69	14.64	14.62	15.5	0		
20	16QAM	1	49	14.50	14.56	14.57	14.62				
20	16QAM	1	99	14.60	14.59	14.64	14.47				
20	16QAM	50	0	14.71	14.61	14.72	14.65				
20	16QAM	50	24	14.50	14.60	14.74	14.50	15.5	0		
20	16QAM	50	50	14.59	14.66	14.58	14.69				
20	64QAM	100	0	14.71	14.70	14.66	14.68				
20	64QAM	1	49	14.42	14.60	14.74	14.54	15.5	0		
20	64QAM	1	99	14.74	14.65	14.57	14.63				
20	64QAM	50	0	14.68	14.64	14.58	14.53				
20	64QAM	50	24	14.62	14.63	14.66	14.54	15.5	0		
20	64QAM	50	50	14.63	14.78	14.71	14.44				
20	64QAM	100	0	14.74	14.67	14.49	14.59				
20	256QAM	1	0	14.73	14.60	14.71	14.41	15.5	0		
20	256QAM	1	49	14.68	14.57	14.43	14.79				
20	256QAM	1	99	14.56	14.75	14.70	14.53				
20	256QAM	50	0	14.54	14.61	14.57	14.64				
20	256QAM	50	24	14.65	14.59	14.67	14.47	15.5	0		
20	256QAM	50	50	14.71	14.65	14.58	14.57				
20	256QAM	100	0	14.48	14.63	14.60	14.67				
20	256QAM	100	0	14.59	14.47	14.59	14.54				
Channel				56515	56620	56760	56865	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				56575	56630	56740	56800				
15	QPSK	1	0	14.71	14.72	14.52	14.61	15.5	0		
15	QPSK	1	37	14.72	14.65	14.69	14.63				
15	QPSK	1	74	14.62	14.70	14.49	14.69				
15	QPSK	36	0	14.54	14.69	14.57	14.55				
15	QPSK	36	20	14.52	14.58	14.49	14.68	15.5	0		
15	QPSK	36	39	14.67	14.54	14.58	14.63				
15	QPSK	75	0	14.68	14.59	14.57	14.51				
15	16QAM	1	0	14.37	14.68	14.61	14.62	15.5	0		
15	16QAM	1	37	14.47	14.52	14.45	14.53				
15	16QAM	1	74	14.63	14.41	14.52	14.54				
15	16QAM	36	0	14.60	14.45	14.58	14.52				
15	16QAM	36	39	14.44	14.64	14.60	14.39	15.5	0		
15	16QAM	36	59	14.55	14.58	14.40	14.67				
15	16QAM	75	0	14.58	14.54	14.65	14.40				
15	64QAM	1	0	14.58	14.60	14.60	14.62	15.5	0		
15	64QAM	1	37	14.30	14.53	14.59	14.36				
15	64QAM	1	74	14.35	14.38	14.54	14.43				
15	64QAM	36	0	14.61	14.48	14.53	14.61				
15	64QAM	36	20	14.54	14.61	14.56	14.52	15.5	0		
15	64QAM	36	39	14.50	14.67	14.53	14.55				
15	64QAM	75	0	14.61	14.50	14.53	14.53				
15	256QAM	1	0	14.61	14.43	14.60	14.69	15.5	0		
15	256QAM	1	37	14.53	14.65	14.36	14.77				
15	256QAM	1	74	14.42	14.71	14.55	14.38				
15	256QAM	36	0	14.43	14.79	14.39	14.51				
15	256QAM	36	20	14.45	14.51	14.54	14.38	15.5	0		
15	256QAM	36	39	14.62	14.53	14.49	14.41				
15	256QAM	75	0	14.48	14.47	14.59	14.54				
15	256QAM	75	0	14.59	14.47	14.59	14.54				
Channel				56520	56615	56760	56865	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				56580	56690	56740	56800				
10	QPSK	1	0	14.66	14.72	14.57	14.58	15.5	0		
10	QPSK	1	25	14.71	14.58	14.69	14.71				
10	QPSK	1	49	14.64	14.69	14.60	14.54				
10	QPSK	15	0	14.40	14.66	14.66	14.57				
10	QPSK	25	12	14.61	14.68	14.52	14.69	15.5	0		
10	QPSK	25	25	14.63	14.53	14.56	14.62				
10	QPSK	50	0	14.53	14.61	14.56	14.54				
10	16QAM	1	0	14.40	14.53	14.65	14.52	15.5	0		
10	16QAM	1	25	14.69	14.39	14.47	14.44				
10	16QAM	1	49	14.57	14.58	14.52	14.34				
10	16QAM	25	0	14.67	14.59	14.59	14.47				
10	16QAM	25	12	14.49	14.54	14.56	14.46	15.5	0		
10	16QAM	25	25	14.54	14.50	14.53	14.46				
10	16QAM	50	0	14.67	14.63	14.76	14.52				
10	64QAM	1	0	14.59	14.47	14.56	14.38	15.5	0		
10	64QAM	1	25	14.25	14.52	14.73	14.37				
10	64QAM	1	49	14.55	14.48	14.41	14.58				
10	64QAM	25	0	14.62	14.48	14.56	14.42				
10	64QAM	25	12	14.40	14.49	14.50	14.43	15.5	0		
10	64QAM	25	25	14.56	14.62	14.70	14.25				
10	64QAM	50	0	14.73	14.60	14.42	14.48				
10	256QAM	1	0	14.60	14.43	14.66	14.34	15.5	0		
10	256QAM	1	25	14.53	14.49	14.30	14.79				
10	256QAM	1	49	14.57	14.57	14.67	14.57				
10	256QAM	25	0	14.51	14.65	14.43	14.53				
10	256QAM	25	12	14.40	14.57	14.55	14.30	15.5	0		
10	256QAM	25	25	14.67	14.51	14.49	14.45				
10	256QAM	50	0	14.34	14.68	14.58	14.54				
10	256QAM	50	0	14.59	14.53	14.60	14.57				
Channel				56505	56610	56760	56865	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				56565	56670	56740	56800				
5	QPSK	1	0	14.69	14.60	14.52	14.48	15.5	0		
5	QPSK	1	12	14.71	14.64	14.59	14.73				
5	QPSK	1	24	14.73	14.67	14.44	14.66				
5	QPSK	12	0	14.65	14.69	14.60	14.66				
5	QPSK	12	7	14.54	14.58	14.56	14.69	15.5	0		
5	QPSK	12	19	14.69	14.49	14.54	14.55				
5	QPSK	25	0	14.59	14.56	14.60	14.51				
5	16QAM	1	0	14.05	14.52	14.64	14.48	15.5	0		
5	16QAM	1	12	14.37	14.49	14.52	14.57	15.5	0		
5	16QAM	1	24	14.65	14.58	14.49	14.46				
5	16QAM	12	7	14.59	14.50	14.52	14.63				
5	16QAM	12	19	14.68	14.59	14.72	14.44	15.5	0		
5	16QAM	12	13	14.61	14.63	14.66	14.54				
5	16QAM	12	25	14.67	14.59	14.75	14.59				
5	64QAM	1	0	14.61	14.62	14.49	14.38	15.5	0		
5	64QAM	1	12	14.33	14.51	14.62	14.42				
5	64QAM	1	24	14.73	14.57	14.44	14.66				
5	64QAM	12	13	14.63	14.49	14.56	14.63				
5	64QAM	25	0	14.58	14.48	14.42	14.47	15.5	0		
5	64QAM	25	7	14.65	14.67	14.67	14.54				
5	64QAM	25	13	14.63	14.38	14.38	14.60				
5	64QAM	25	19	14.58	14.48	14.42	14.47				
5	256QAM	1	0	14.53	14.38	14.38	14.60	15.5	0		
5	256QAM	1	12	14.51	14.62	14.61	14.44				
5	256QAM	1	24	14.50	14.63	14.44	14.63				
5	256QAM	12	13	14.60	14.43	14.59	14.42				
5	256QAM	12	19	14.54	14.54	14.59	14.53	15.5	0		
5	256QAM	12	25	14.34	14.54	14.39	14.53				
5	256QAM	25	0	14.30	14.58	14.58	14.59				
5	256QAM	25	7	14.63	14.58	14.58	14.58				



Band 48_FCC Ant5 EC17												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power High Ch / Freqs	Power High Modulo Ch / Freqs	Power High Modulo Ch / Freqs	Turn-up limit (dBm)	MPP (dB)			
Channel				56540	56630	56760	56845					
Frequency (MHz)				56610	56700	56830	56915					
20	QPSK	1	0	19.31	19.34	19.29	19.25	20.5	0			
20	QPSK	1	49	19.22	19.32	19.25	19.16					
20	QPSK	1	99	19.20	19.30	19.26	19.25					
20	QPSK	50	0	19.20	19.31	19.28	19.15					
20	QPSK	50	24	19.08	19.22	19.07	19.24	20.5	0			
20	QPSK	50	50	19.11	19.22	19.06	19.22					
20	QPSK	100	0	19.21	19.27	19.24	19.19					
20	16QAM	1	0	19.08	19.27	19.11	19.05					
20	16QAM	1	49	19.03	19.10	19.10	19.19	20.5	0			
20	16QAM	1	99	19.12	19.14	19.10	19.08					
20	16QAM	50	0	19.26	19.16	19.29	19.09					
20	16QAM	50	24	19.10	19.15	19.23	19.03					
20	16QAM	50	50	19.17	19.21	19.01	19.20	20.5	0			
20	64QAM	100	0	19.12	19.11	19.21	19.04					
20	64QAM	1	0	19.27	19.16	19.19	19.01					
20	64QAM	1	49	19.00	19.03	19.15	19.12					
20	64QAM	1	99	19.10	19.26	19.02	19.07	20.5	0			
20	64QAM	50	0	19.17	19.16	19.04	19.06					
20	64QAM	50	24	19.10	19.09	19.19	19.09					
20	64QAM	50	50	19.07	19.26	19.06	19.07					
20	256QAM	1	0	17.72	17.92	17.89	17.61	19	1.5			
20	256QAM	1	49	17.81	17.78	17.89	17.66					
20	256QAM	1	99	17.64	17.88	17.78	17.70					
20	256QAM	50	0	17.72	17.80	17.77	17.68					
20	256QAM	50	24	17.79	17.88	17.85	17.53	19	1.5			
20	256QAM	50	50	17.67	18.00	17.75	17.60					
20	256QAM	100	0	17.77	17.95	17.85	17.58					
Channel				56915	56920	56760	56850					
Frequency (MHz)				56975	56980	56830	56920					
15	QPSK	1	0	19.18	19.30	19.16	19.21	20.5	0			
15	QPSK	1	37	19.10	19.10	19.10	19.09					
15	QPSK	1	74	19.32	19.22	19.01	19.06					
15	QPSK	86	0	19.20	19.23	19.24	19.02					
15	QPSK	86	20	18.89	19.22	19.03	19.23	20.5	0			
15	QPSK	75	0	19.09	19.08	19.06	19.03					
15	QPSK	75	0	19.08	19.21	19.10	19.00					
15	16QAM	1	0	19.02	19.09	19.04	19.01					
15	16QAM	1	37	19.04	19.06	19.06	19.10	20.5	0			
15	16QAM	1	74	19.03	19.09	19.07	19.19					
15	16QAM	58	0	19.23	19.03	19.23	19.05					
15	16QAM	86	20	19.07	19.02	19.05	19.01					
15	16QAM	86	39	19.13	19.06	19.01	19.09	20.5	0			
15	16QAM	75	0	19.06	19.09	19.03	19.00					
15	64QAM	1	0	19.08	19.08	19.01	19.00					
15	64QAM	1	37	19.02	19.07	19.08	19.06					
15	64QAM	1	74	19.00	19.18	19.06	19.06	20.5	0			
15	64QAM	38	0	19.10	19.01	19.06	19.10					
15	64QAM	38	0	19.10	19.00	19.05	19.01					
15	64QAM	38	20	19.16	19.00	19.05	19.01					
15	64QAM	75	0	19.00	19.10	19.05	19.02	19	1.5			
15	256QAM	1	0	17.50	17.83	17.82	17.51					
15	256QAM	1	37	17.72	17.66	17.70	17.54					
15	256QAM	1	74	17.43	17.87	17.77	17.59					
15	256QAM	38	0	17.65	17.80	17.78	17.61					
15	256QAM	38	20	17.60	17.70	17.84	17.67	19	1.5			
15	256QAM	38	39	17.57	18.00	17.89	17.52					
15	256QAM	75	0	17.74	17.78	17.57	17.50					
Channel				56975	56975	56830	56920					
Frequency (MHz)				56975	56975	56830	56920					
10	QPSK	1	0	19.18	19.28	19.21	19.21	20.5	0			
10	QPSK	1	25	19.12	19.20	19.07	19.06					
10	QPSK	1	49	19.21	19.17	19.04	19.14					
10	QPSK	25	12	19.20	19.21	19.16	19.14					
10	QPSK	25	12	19.03	19.08	19.00	19.11	20.5	0			
10	QPSK	25	25	19.10	19.13	19.02	19.08					
10	QPSK	10	0	19.06	19.27	19.04	19.09					
10	16QAM	1	0	19.00	19.08	19.06	19.07					
10	16QAM	1	25	19.05	19.09	19.08	19.10	20.5	0			
10	16QAM	1	49	19.00	19.02	19.02	19.19					
10	16QAM	25	0	19.22	19.14	19.16	19.02					
10	16QAM	25	12	19.10	19.08	19.06	19.01					
10	16QAM	25	25	19.05	19.08	19.07	19.11	20.5	0			
10	64QAM	1	0	19.20	19.06	19.09	19.04					
10	64QAM	1	25	19.01	19.07	19.07	19.08					
10	64QAM	1	49	19.10	19.18	19.03	19.06					
10	64QAM	25	0	19.02	19.13	19.04	19.01	20.5	0			
10	64QAM	25	12	19.00	19.09	19.01	19.08					
10	64QAM	25	25	19.00	19.08	19.18	19.00					
10	64QAM	80	0	19.00	19.01	19.08	19.08					
10	256QAM	1	0	17.70	17.92	17.89	17.59	19	1.5			
10	256QAM	1	25	17.77	17.84	17.87	17.44					
10	256QAM	1	49	17.49	17.78	17.78	17.64					
10	256QAM	25	0	17.60	17.86	17.83	17.49					
10	256QAM	25	12	17.60	17.74	17.72	17.48	19	1.5			
10	256QAM	25	25	17.50	17.80	17.64	17.51					
10	256QAM	50	0	17.76	17.97	17.87	17.69					
Channel				56975	56975	56830	56920					
Frequency (MHz)				56975	56975	56830	56920					
5	QPSK	1	0	19.10	19.24	19.28	19.10	20.5	0			
5	QPSK	1	12	19.00	19.25	19.14	19.12					
5	QPSK	1	24	19.22	19.13	19.05	19.18					
5	QPSK	12	0	19.10	19.31	19.23	19.00					
5	QPSK	12	7	19.00	19.06	19.02	19.06	20.5	0			
5	QPSK	12	19	19.11	19.09	19.05	19.02					
5	QPSK	25	0	19.17	19.11	19.15	19.10					
5	16QAM	1	0	19.08	19.21	19.09	19.03					
5	16QAM	1	12	19.00	19.09	19.01	19.17	20.5	0			
5	16QAM	1	24	19.02	19.03	19.05	19.20					
5	16QAM	12	0	19.18	19.02	19.15	19.01					
5	16QAM	12	7	19.04	19.05	19.04	19.00					
5	16QAM	12	19	19.11	19.02	19.00	19.01	20.5	0			
5	64QAM	1	0	19.20	19.03	19.05	19.08					
5	64QAM	1	12	19.01	19.03	19.05	19.04					
5	64QAM	1	24	19.09	19.18	19.09	19.06					
5	64QAM	12	0	19.00	19.07	19.02	19.07	20.5	0			
5	64QAM	12	7	19.10	19.06	19.09	19.08					
5	64QAM	12	19	19.04	19.11	19.26	19.19					
5	256QAM	1	0	17.54	17.70	17.83	17.58					
5	256QAM	1	12	17.60	17.89	17.73	17.57	19	1.5			
5	256QAM	1	24	17.60	17.75	17.78	17.59					
5	256QAM	12	0	17.66	17.99	17.88	17.51					
5	256QAM	12	7	17.74	17.83	17.72	17.49					

Band 41 Ant6 EC17															
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Power Low Mid Ch. / Freq.	Power High Mid Ch. / Freq.	Turn-up time (dBm)	MPR (dB)					
Channel															
Frequency (MHz)				39870	40188	40600	41006	41490							
18	QPSK	1	0	18.16	18.16	18.21	18.14	18.17	19.4	0					
20	QPSK	1	40	18.05	17.83	17.86	18.10	17.91							
20	QPSK	1	80	18.01	18.02	18.15	17.83	18.04							
20	QPSK	50	0	17.97	17.91	18.16	18.11	17.88							
20	QPSK	50	24	17.94	17.93	18.12	18.13	17.86	19.4	0					
20	QPSK	50	48	17.93	17.95	18.05	18.06	17.86							
20	QPSK	100	0	17.98	17.91	18.12	17.96	17.91							
20	16QAM	1	0	18.06	17.93	18.05	18.13	17.94							
20	16QAM	1	40	18.02	18.02	18.01	17.94	17.88	19.4	0					
20	16QAM	1	80	18.14	18.10	18.09	17.96	17.95							
20	16QAM	50	0	18.04	17.98	18.08	18.03	17.89							
20	16QAM	50	24	18.01	17.91	18.01	17.97	17.88							
20	16QAM	50	50	18.14	17.90	18.07	18.11	18.08	19.4	0					
20	16QAM	100	0	18.11	17.95	18.00	18.05	17.92							
20	16QAM	1	0	18.07	17.93	18.04	17.93	17.91							
20	16QAM	1	40	18.16	17.83	18.08	18.18	18.01							
20	16QAM	1	80	18.13	17.91	17.90	18.01	17.87	19.4	0					
20	16QAM	50	0	17.95	17.94	18.18	17.91	17.90							
20	16QAM	50	24	17.98	18.10	18.20	18.07	17.82							
20	16QAM	50	50	17.99	17.89	18.09	17.99	17.89							
20	16QAM	100	0	18.07	17.93	18.04	17.93	17.91	19.4	0					
20	256QAM	1	0	17.42	17.40	17.53	17.43	17.30							
20	256QAM	1	40	17.34	17.30	17.43	17.36	17.33							
20	256QAM	1	80	17.36	17.32	17.40	17.29	17.37							
20	256QAM	50	0	17.38	17.37	17.50	17.44	17.48	19.4	0.4					
20	256QAM	50	24	17.38	17.37	17.54	17.54	17.35							
20	256QAM	50	50	17.52	17.45	17.57	17.53	17.44							
20	256QAM	100	0	17.58	17.48	17.58	17.56	17.38							
Channel															
Frequency (MHz)				39970	40173	40600	41006	41515							
18	QPSK	1	0	17.83	17.43	18.04	18.07	17.81	19	0					
18	QPSK	1	37	18.02	17.67	17.88	17.88	17.79							
18	QPSK	1	74	17.94	17.62	17.87	17.80	17.73							
18	QPSK	36	0	17.86	17.68	18.00	17.94	17.81							
18	QPSK	36	20	17.97	17.69	17.98	18.04	17.70	19.4	0					
18	QPSK	36	40	17.74	17.67	17.96	17.84	17.74							
18	QPSK	75	0	17.88	17.68	18.07	17.86	17.83							
18	16QAM	1	0	17.89	17.72	17.87	17.91	17.81							
18	16QAM	1	40	17.82	17.81	17.86	17.86	17.84	19.4	0					
18	16QAM	1	74	17.98	17.82	18.08	17.90	17.82							
18	16QAM	36	0	17.84	17.88	17.84	17.84	17.86							
18	16QAM	36	20	17.81	17.85	17.81	17.81	17.85							
18	16QAM	36	39	18.08	17.79	18.16	18.03	17.94	19.4	0					
18	16QAM	75	0	17.94	17.68	18.04	17.92	17.86							
18	16QAM	1	0	17.89	17.98	17.85	17.76	17.84							
18	16QAM	1	37	17.99	17.67	17.96	18.00	17.89							
18	16QAM	1	74	17.94	17.68	18.04	17.96	17.86	19.4	0					
18	16QAM	36	0	17.82	17.80	17.85	17.81	17.74							
18	16QAM	36	20	17.97	17.69	18.02	17.93	17.88							
18	16QAM	36	39	17.88	17.67	17.87	18.04	17.84							
18	16QAM	75	0	17.93	17.82	18.08	17.91	17.77	19	0.4					
18	256QAM	1	0	17.37	17.34	17.44	17.29	17.39							
18	256QAM	1	37	17.45	17.33	17.41	17.31	17.36							
18	256QAM	1	74	17.32	17.26	17.30	17.16	17.25							
18	256QAM	36	0	17.45	17.40	17.51	17.52	17.42	19	0.4					
18	256QAM	36	20	17.45	17.43	17.50	17.39	17.48							
18	256QAM	36	39	17.49	17.33	17.47	17.41	17.30							
18	256QAM	75	0	17.43	17.47	17.58	17.48	17.30							
Channel															
Frequency (MHz)				39970	40140	40600	41006	41560							
18	QPSK	1	0	18.08	17.86	17.84	18.04	17.87	19.4	0					
18	QPSK	1	25	17.85	17.79	17.82	17.83	17.88							
18	QPSK	1	49	17.88	17.77	17.84	17.80	17.82							
18	QPSK	25	0	17.84	17.86	17.86	17.86	17.86							
18	QPSK	25	12	18.00	17.78	17.90	17.92	17.77	19.4	0					
18	QPSK	25	25	17.80	17.81	18.06	17.79	17.89							
18	QPSK	50	0	18.01	17.80	18.15	18.02	17.89							
18	16QAM	1	0	18.08	17.87	17.88	17.83	17.77							
18	16QAM	1	25	18.00	17.96	18.01	17.80	17.77	19.4	0					
18	16QAM	1	49	17.89	17.94	18.10	17.87	17.88							
18	16QAM	25	0	17.85	17.67	18.04	17.95	17.83							
18	16QAM	25	12	17.88	17.96	18.12	17.79	17.86							
18	16QAM	50	0	17.85	18.01	18.13	17.87	17.81	19.4	0					
18	16QAM	1	0	17.83	17.78	17.80	17.78	17.83							
18	16QAM	1	25	18.07	18.00	18.01	18.00	17.95							
18	16QAM	1	49	17.83	17.82	17.85	17.93	17.74							
18	16QAM	25	0	17.82	17.78	18.09	17.85	17.87	19.4	0					
18	16QAM	25	12	18.01	17.79	18.15	18.00	17.83							
18	16QAM	25	25	18.05	17.65	17.90	17.89	17.74							
18	16QAM	50	0	17.86	17.89	18.00	17.94	17.82							
18	256QAM	1	0	17.32	17.26	17.46	17.31	17.39	19	0.4					
18	256QAM	1	25	17.24	17.26	17.38	17.25	17.24							
18	256QAM	1	49	17.24	17.28	17.30	17.19	17.23							
18	256QAM	25	0	17.51	17.43	17.58	17.51	17.59							
18	256QAM	25	12	17.47	17.46	17.53	17.44	17.42	19	0.4					
18	256QAM	25	25	17.45	17.31	17.44	17.38	17.45							
18	256QAM	50	0	17.50	17.52	17.58	17.48	17.53							
Channel															
Frequency (MHz)				39970.5	40140.5	40600.5	41006.5	41560.5							
5	QPSK	1	0	17.99	17.75	17.95	18.10	18.00	19.4	0					
5	QPSK	1	15	17.84	17.67	17.88	18.00	17.87							
5	QPSK	1	24	18.09	17.83	18.05	17.75	17.89							
5	QPSK	12	0	18.02	17.93	18.11	18.07	17.88	19.4	0					
5	QPSK	12	7	17.82	17.66	18.03	17.87	17.65							
5	QPSK	24	0	17.99	17.78	17.97	17.74	17.71							
5	QPSK	25	0	17.90	17.89	18.10	17.90	17.95	19.4	0					
5	QPSK	25	13	17.80	17.72	17.82	17.86	17.83							
5	QPSK	25	26	17.88	17.80	17.95	17.80	17.82							
5	16QAM	1	0	17.94	17.85	18.10	18.00	17.84	19.4	0					
5	16QAM	1	13	17.80	17.72	17.82	17.86	17.83							
5	16QAM	12	7	17.91	17.93	17.97	17.80	17.70							
5	16QAM	12	13	18.04	17.88	18.05	18.00	17.97	19.4	0					
5	16QAM	25	0	17.86	17.72	17.82	17.86	17.83							
5	16QAM	25	13	17.90	17.86	18.05	18.07	17.94							
5	16QAM	25	26	17.93	17.82	17.97	17.87	17.81	19.4	0					
5	16QAM	12	0	17.79	17.89	17.95	17.83	17.81							
5	16QAM	12	7	17.86	17.80	17.95	17.80	17.88							
5	16QAM	12	13	17.96	17.88	17.91	17.96	17.72	19.4	0					
5	16QAM	25	0	17.84	17.80	18.03	17.74	17.75							
5	16QAM	25	13	17.86	17.82	17.95	17.85	17.79							
5	256QAM	1	0	17.28	17.22	17.40	17.15	17.28	19	0.4					
5	256QAM	1	12	17.24	17.28	17.40	17.31	17.26							
5	256QAM	1	24	17.23	17.23	17.30	17.25	17.24							
5	256QAM	12	0	17.49	17.48	17.59	17.48	17.57							
5	256QAM	12	7	17.44	17.45	17.50	17.48	17.48	19	0.4					
5	256QAM	12	13	17.47	17.41	17.47	17.40	17.38							
5	256QAM	25	0	17.48	17.48	17.54	17.49	17.48							
5	256QAM	25	13	17.47	17.48	17.54	17.49	17.48							
Channel															
Frequency (MHz)				40070.5	40140.5	40600.5	41006.5	41560.5							



Band 48_FCC Ant7 EC17														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Low Middle Ch / Freqs	Power High Middle Ch / Freqs	Power High Ch / Freqs	Turn-up limit (dBm)	MPP (dB)					
Channel				56500	56650	56750	56850							
Frequency (MHz)				56600	56700	56740	56800							
20	QPSK	1	0	15.81	15.93	15.82	15.87	17	0					
20	QPSK	1	49	15.71	15.80	15.77	15.87							
20	QPSK	1	89	15.62	15.71	15.52	15.76							
20	QPSK	50	0	15.70	15.87	15.80	15.82							
20	QPSK	50	24	15.58	15.74	15.48	15.86	17	0					
20	QPSK	50	50	15.60	15.67	15.54	15.53							
20	QPSK	100	0	15.81	15.84	15.79	15.78							
20	16QAM	1	0	15.67	15.78	15.56	15.80							
20	16QAM	1	49	15.60	15.68	15.59	15.69	17	0					
20	16QAM	1	99	15.52	15.56	15.81	15.36							
20	16QAM	50	0	15.83	15.81	15.76	15.86							
20	16QAM	50	24	15.83	15.89	15.84	15.63							
20	16QAM	50	50	15.84	15.87	15.84	15.77	17	0					
20	64QAM	100	0	15.55	15.69	15.55	15.61							
20	64QAM	1	0	15.75	15.94	15.73	15.52							
20	64QAM	1	49	15.67	15.81	15.82	15.59							
20	64QAM	1	99	15.70	15.69	15.80	15.57	17	0					
20	64QAM	50	0	15.50	15.75	15.59	15.43							
20	64QAM	50	24	15.70	15.89	15.75	15.59							
20	64QAM	50	50	15.52	15.67	15.73	15.44							
20	64QAM	100	0	15.76	15.67	15.82	15.63	17	0					
20	256QAM	1	0	15.62	15.76	15.79	15.57							
20	256QAM	1	49	15.65	15.79	15.65	15.58							
20	256QAM	1	99	15.69	15.56	15.45	15.68							
20	256QAM	50	0	15.52	15.68	15.65	15.58	17	0					
20	256QAM	50	24	15.48	15.67	15.37	15.60							
20	256QAM	50	50	15.64	15.64	15.40	15.51							
20	256QAM	100	0	15.59	15.56	15.48	15.58							
Channel				56315	56520	56750	56850	Turn-up limit (dBm)	MPP (dB)					
Frequency (MHz)				56375	56500	56740	56800							
15	QPSK	1	0	15.44	15.77	15.59	15.53	17	0					
15	QPSK	1	37	15.64	15.73	15.88	15.59							
15	QPSK	1	74	15.66	15.58	15.52	15.62							
15	QPSK	86	0	15.60	15.80	15.71	15.65							
15	QPSK	86	20	15.48	15.63	15.34	15.48	17	0					
15	QPSK	75	0	15.60	15.69	15.48	15.34							
15	QPSK	75	0	15.68	15.70	15.74	15.72							
15	16QAM	1	0	15.67	15.62	15.54	15.53							
15	16QAM	1	37	15.59	15.56	15.59	15.59	17	0					
15	16QAM	1	74	15.34	15.50	15.44	15.23							
15	16QAM	58	0	15.79	15.49	15.60	15.42							
15	16QAM	86	20	15.60	15.65	15.50	15.75							
15	16QAM	75	0	15.53	15.60	15.60	15.44	17	0					
15	64QAM	1	0	15.70	15.54	15.70	15.50							
15	64QAM	1	37	15.41	15.44	15.50	15.49							
15	64QAM	1	74	15.37	15.52	15.45	15.62							
15	64QAM	86	0	15.40	15.68	15.59	15.53	17	0					
15	64QAM	86	20	15.52	15.50	15.56	15.53							
15	64QAM	86	39	15.47	15.50	15.50	15.47							
15	64QAM	75	0	15.71	15.40	15.50	15.47							
15	256QAM	1	0	15.54	15.70	15.77	15.46	17	0					
15	256QAM	1	37	15.54	15.67	15.64	15.45							
15	256QAM	1	74	15.55	15.63	15.28	15.50							
15	256QAM	86	39	15.53	15.59	15.28	15.49							
15	256QAM	75	0	15.84	15.53	15.63	15.47	17	0					
Channel				56250	56315	56350	56400				Turn-up limit (dBm)	MPP (dB)		
Frequency (MHz)				56300	56375	56425	56475							
10	QPSK	1	0	15.78	15.62	15.74	15.48				17	0		
10	QPSK	1	25	15.59	15.64	15.68	15.62							
10	QPSK	1	49	15.65	15.60	15.43	15.71							
10	QPSK	15	0	15.73	15.69	15.74	15.20							
10	QPSK	25	12	15.52	15.63	15.29	15.53	17	0					
10	QPSK	25	25	15.57	15.59	15.50	15.52							
10	QPSK	80	0	15.61	15.74	15.68	15.75							
10	16QAM	1	0	15.47	15.77	15.42	15.43							
10	16QAM	1	25	15.60	15.59	15.59	15.67	17	0					
10	16QAM	1	49	15.42	15.45	15.48	15.28							
10	16QAM	25	0	15.69	15.67	15.78	15.59							
10	16QAM	25	12	15.55	15.56	15.46	15.58							
10	16QAM	86	25	15.53	15.57	15.41	15.56	17	0					
10	16QAM	50	0	15.44	15.67	15.49	15.51							
10	64QAM	1	0	15.57	15.59	15.56	15.20							
10	64QAM	1	25	15.41	15.43	15.50	15.46							
10	64QAM	1	49	15.69	15.62	15.45	15.49	17	0					
10	64QAM	25	0	15.51	15.69	15.39	15.41							
10	64QAM	25	12	15.60	15.46	15.75	15.40							
10	64QAM	25	25	15.45	15.57	15.61	15.27							
10	64QAM	80	0	15.69	15.55	15.43	15.53	17	0					
10	256QAM	1	0	15.45	15.72	15.63	15.47							
10	256QAM	1	25	15.36	15.78	15.53	15.47							
10	256QAM	1	49	15.65	15.38	15.41	15.64							
10	256QAM	25	0	15.51	15.60	15.48	15.49	17	0					
10	256QAM	25	12	15.26	15.49	15.20	15.28							
10	256QAM	25	25	15.45	15.38	15.24	15.50							
10	256QAM	50	0	15.44	15.60	15.58	15.50							
Channel				56295	56310	56325	56340	Turn-up limit (dBm)	MPP (dB)					
Frequency (MHz)				56295	56310	56325	56340							
5	QPSK	1	0	15.63	15.85	15.78	15.86	17	0					
5	QPSK	1	12	15.60	15.72	15.64	15.53							
5	QPSK	1	24	15.81	15.53	15.51	15.59							
5	QPSK	12	0	15.83	15.82	15.67	15.81							
5	QPSK	12	7	15.51	15.69	15.38	15.63	17	0					
5	QPSK	12	19	15.61	15.47	15.38	15.53							
5	QPSK	26	0	15.73	15.78	15.60	15.62							
5	16QAM	1	0	15.68	15.63	15.52	15.50							
5	16QAM	1	12	15.58	15.68	15.48	15.60	17	0					
5	16QAM	1	24	15.46	15.47	15.46	15.30							
5	16QAM	12	0	15.69	15.50	15.78	15.55							
5	16QAM	12	7	15.51	15.69	15.45	15.43							
5	16QAM	12	19	15.45	15.61	15.49	15.70	17	0					
5	16QAM	26	0	15.43	15.60	15.89	15.42							
5	64QAM	1	0	15.81	15.71	15.42	15.53							
5	64QAM	1	12	15.65	15.48	15.63	15.54							
5	64QAM	1	24	15.57	15.62	15.45	15.64	17	0					
5	64QAM	12	0	15.47	15.71	15.42	15.52							
5	64QAM	12	7	15.63	15.54	15.59	15.34							
5	64QAM	12	19	15.33	15.54	15.59	15.34							
5	64QAM	26	0	15.66	15.63	15.34	15.47	17	0					
5	256QAM	1	0	15.47	15.65	15.72	15.54							
5	256QAM	1	12	15.47	15.65	15.48	15.49							
5	256QAM	1	24	15.60	15.51	15.30	15.67							
5	256QAM	12	0	15.39	15.49	15.49	15.39	17	0					
5	256QAM	12	7	15.48	15.63	15.22	15.45							
5	256QAM	12	19	15.62	15.32	15.39	15.36							
5	256QAM	26	0	15.49	15.49	15.62	15.49							

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CA_5B Ant0							
Combination 10MHz+10MHz (50RB+50RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20525	20624	QPSK	1	49	1	0	22.79
20476	20575	QPSK	1	49	1	0	22.86
20600	20501	QPSK	1	0	1	49	22.80

CA_7C Ant0							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	22.70
21100	21298	QPSK	1	99	1	0	22.83
21350	21152	QPSK	1	0	1	99	22.79

CA_41C Ant0							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	22.81
40185	40383	QPSK	1	99	1	0	22.88
40620	40818	QPSK	1	99	1	0	23.03
41055	41253	QPSK	1	99	1	0	22.97
41490	41292	QPSK	1	0	1	99	22.93

CA_41C HPUE Ant0							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	26.18
40185	40383	QPSK	1	99	1	0	26.14
40620	40818	QPSK	1	99	1	0	26.3
41055	41253	QPSK	1	99	1	0	26.22
41490	41292	QPSK	1	0	1	99	26.27

CA_66C Ant0							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	23.06
132322	132520	QPSK	1	99	1	0	23.12
132572	132374	QPSK	1	0	1	99	23.10

CA_66B Ant0							
Combination 15MHz+5MHz (75RB+25RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132047	132140	QPSK	1	74	1	0	22.80
132322	132415	QPSK	1	74	1	0	22.86
132597	132504	QPSK	1	0	1	74	22.78

CA_48C Ant2							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
55340	55538	QPSK	1	99	1	0	22.60
55830	56028	QPSK	1	99	1	0	22.79
56150	56348	QPSK	1	99	1	0	22.63
56640	56838	QPSK	1	99	1	0	21.65

CA_48B Ant2							
Combination 15MHz+5MHz (75RB+25RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
55315	55408	QPSK	1	74	1	0	22.52
55820	55913	QPSK	1	74	1	0	22.57
56150	56243	QPSK	1	74	1	0	22.53
56665	56572	QPSK	1	0	1	24	22.44

CA_5B Ant1							
Combination 10MHz+10MHz (50RB+50RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20525	20624	QPSK	1	49	1	0	22.75
20476	20575	QPSK	1	49	1	0	22.88
20600	20501	QPSK	1	0	1	49	22.82

CA_7C Ant1							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	22.74
21100	21298	QPSK	1	99	1	0	23.01
21350	21152	QPSK	1	0	1	99	22.85

CA_41C Ant1							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	22.91
40185	40383	QPSK	1	99	1	0	22.84
40620	40818	QPSK	1	99	1	0	22.97
41055	41253	QPSK	1	99	1	0	22.94
41490	41292	QPSK	1	0	1	99	22.89

CA_41C HPUE Ant1							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	25.89
40185	40383	QPSK	1	99	1	0	25.86
40620	40818	QPSK	1	99	1	0	25.93
41055	41253	QPSK	1	99	1	0	25.9
41490	41292	QPSK	1	0	1	99	25.82

CA_66C Ant1							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	22.85
132322	132520	QPSK	1	99	1	0	22.83
132572	132374	QPSK	1	0	1	99	22.84

CA_66B Ant1							
Combination 15MHz+5MHz (75RB+25RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132047	132140	QPSK	1	74	1	0	22.81
132322	132415	QPSK	1	74	1	0	22.77
132597	132504	QPSK	1	0	1	74	22.82

CA_48C Ant4							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
55340	55538	QPSK	1	99	1	0	22.90
55830	56028	QPSK	1	99	1	0	22.97
56150	56348	QPSK	1	99	1	0	22.91
56640	56442	QPSK	1	0	1	99	22.94

CA_48B Ant4							
Combination 15MHz+5MHz (75RB+25RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
55315	55408	QPSK	1	74	1	0	22.87
55820	55913	QPSK	1	74	1	0	22.92
56150	56243	QPSK	1	74	1	0	22.81
56665	56572	QPSK	1	0	1	24	22.90

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CA_5B Ant0 EC13&7							
Combination 10MHz+10MHz (50RB+50RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20525	20624	QPSK	1	49	1	0	21.12
20476	20575	QPSK	1	49	1	0	21.44
20600	20501	QPSK	1	0	1	49	21.25

CA_5B Ant1 EC12							
Combination 10MHz+10MHz (50RB+50RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20525	20624	QPSK	1	49	1	0	19.59
20476	20575	QPSK	1	49	1	0	19.66
20600	20501	QPSK	1	0	1	49	19.63

CA_7C Ant0 EC13							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	16.82
21100	21298	QPSK	1	99	1	0	16.85
21350	21152	QPSK	1	0	1	99	16.95

CA_7C Ant1 EC12							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	13.32
21100	21298	QPSK	1	99	1	0	13.44
21350	21152	QPSK	1	0	1	99	13.35

CA_41C Ant0 EC13							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	20.09
40185	40383	QPSK	1	99	1	0	20.18
40620	40818	QPSK	1	99	1	0	20.51
41055	41253	QPSK	1	99	1	0	20.09
41490	41292	QPSK	1	0	1	99	20.33

CA_41C Ant1 EC12							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	16.16
40185	40383	QPSK	1	99	1	0	16.36
40620	40818	QPSK	1	99	1	0	16.44
41055	41253	QPSK	1	99	1	0	16.43
41490	41292	QPSK	1	0	1	99	16.23

CA_41C HPUE Ant0 EC13							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	21.92
40185	40383	QPSK	1	99	1	0	22.09
40620	40818	QPSK	1	99	1	0	22.11
41055	41253	QPSK	1	99	1	0	21.86
41490	41292	QPSK	1	0	1	99	22.13

CA_41C HPUE Ant1 EC12							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	17.59
40185	40383	QPSK	1	99	1	0	17.89
40620	40818	QPSK	1	99	1	0	17.97
41055	41253	QPSK	1	99	1	0	17.67
41490	41292	QPSK	1	0	1	99	17.74

CA_66C Ant0 EC13							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	17.16
132322	132520	QPSK	1	99	1	0	17.18
132572	132374	QPSK	1	0	1	99	17.25

CA_5B Ant1 EC13							
Combination 10MHz+10MHz (50RB+50RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20525	20624	QPSK	1	49	1	0	21.02
20476	20575	QPSK	1	49	1	0	21.12
20600	20501	QPSK	1	0	1	49	21.11

CA_7C Ant0 EC17							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	15.86
21100	21298	QPSK	1	99	1	0	15.91
21350	21152	QPSK	1	0	1	99	15.95

CA_7C Ant1 EC13							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	12.81
21100	21298	QPSK	1	99	1	0	12.93
21350	21152	QPSK	1	0	1	99	12.88

CA_41C Ant0 EC17							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	19.4
40185	40383	QPSK	1	99	1	0	19.44
40620	40818	QPSK	1	99	1	0	19.49
41055	41253	QPSK	1	99	1	0	19.45
41490	41292	QPSK	1	0	1	99	19.4

CA_41C Ant1 EC13							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	16.75
40185	40383	QPSK	1	99	1	0	16.91
40620	40818	QPSK	1	99	1	0	17
41055	41253	QPSK	1	99	1	0	16.61
41490	41292	QPSK	1	0	1	99	16.75

CA_41C HPUE Ant0 EC17							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	20.99
40185	40383	QPSK	1	99	1	0	20.95
40620	40818	QPSK	1	99	1	0	21.05
41055	41253	QPSK	1	99	1	0	21.12
41490	41292	QPSK	1	0	1	99	20.95

CA_41C HPUE Ant1 EC13							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	18.26
40185	40383	QPSK	1	99	1	0	18.46
40620	40818	QPSK	1	99	1	0	18.68
41055	41253	QPSK	1	99	1	0	18.5
41490	41292	QPSK	1	0	1	99	18.17

CA_66C Ant0 EC17							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	15.08
132322	132520	QPSK	1	99	1	0	15.10
132572	132374	QPSK	1	0	1	99	15.03

CA_66C Ant1 EC12								
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	14.96	16.00
132322	132520	QPSK	1	99	1	0	14.97	16.00
132572	132374	QPSK	1	0	1	99	14.86	16.00

CA_66B Ant0 EC13								
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	17.08	18.00
132322	132415	QPSK	1	74	1	0	16.97	18.00
132597	132504	QPSK	1	0	1	74	16.88	18.00

CA_66B Ant1 EC12								
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	14.54	16.00
132322	132415	QPSK	1	74	1	0	14.66	16.00
132597	132504	QPSK	1	0	1	74	14.60	16.00

CA_48C Ant2 EC13								
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	20.50	22.00
55830	56028	QPSK	1	99	1	0	20.83	22.00
56150	56348	QPSK	1	99	1	0	20.46	22.00
56640	56838	QPSK	1	99	1	0	19.51	21.00

CA_48C Ant4 EC12&3								
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	17.99	19.00
55830	56028	QPSK	1	99	1	0	18.18	19.00
56150	56348	QPSK	1	99	1	0	18.10	19.00
56640	56442	QPSK	1	0	1	99	18.01	19.00

CA_48B Ant2 EC13								
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	20.38	22.00
55820	55913	QPSK	1	74	1	0	20.42	22.00
56150	56243	QPSK	1	74	1	0	20.36	22.00
56665	56572	QPSK	1	0	1	24	20.47	22.00

CA_48B Ant4 EC12								
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	17.65	19.00
55820	55913	QPSK	1	74	1	0	17.79	19.00
56150	56243	QPSK	1	74	1	0	17.74	19.00
56665	56572	QPSK	1	0	1	24	17.73	19.00

CA_66C Ant1 EC13								
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	16.85	18.00
132322	132520	QPSK	1	99	1	0	17.01	18.00
132572	132374	QPSK	1	0	1	99	16.86	18.00

CA_66B Ant0 EC17								
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	14.90	16.00
132322	132415	QPSK	1	74	1	0	14.98	16.00
132597	132504	QPSK	1	0	1	74	14.75	16.00

CA_66B Ant1 EC13								
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	16.46	18.00
132322	132415	QPSK	1	74	1	0	16.89	18.00
132597	132504	QPSK	1	0	1	74	16.71	18.00

CA_48C Ant2 EC17								
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	16.66	18.00
55830	56028	QPSK	1	99	1	0	16.74	18.00
56150	56348	QPSK	1	99	1	0	16.59	18.00
56640	56838	QPSK	1	99	1	0	15.53	17.00

CA_48C Ant4 EC17								
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	14.61	15.50
55830	56028	QPSK	1	99	1	0	14.65	15.50
56150	56348	QPSK	1	99	1	0	14.69	15.50
56640	56442	QPSK	1	0	1	99	14.76	15.50

CA_48B Ant2 EC17								
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	16.44	18.00
55820	55913	QPSK	1	74	1	0	16.38	18.00
56150	56243	QPSK	1	74	1	0	16.71	18.00
56665	56572	QPSK	1	0	1	24	16.56	18.00

CA_48B Ant4 EC17								
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	14.51	15.50
55820	55913	QPSK	1	74	1	0	14.58	15.50
56150	56243	QPSK	1	74	1	0	14.40	15.50
56665	56572	QPSK	1	0	1	24	14.52	15.50

CA_5B Ant1 ECi7							
Combination 10MHz+10MHz (50RB+50RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20525	20624	QPSK	1	49	1	0	19.95
20476	20575	QPSK	1	49	1	0	19.05
20600	20501	QPSK	1	0	1	49	19.02

CA_7C Ant0 ECi6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	19.89
21100	21298	QPSK	1	99	1	0	19.91
21350	21152	QPSK	1	0	1	99	19.69

CA_7C Ant1 ECi7							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	10.45
21100	21298	QPSK	1	99	1	0	10.47
21350	21152	QPSK	1	0	1	99	10.35

CA_5B Ant1 ECi6							
Combination 10MHz+10MHz (50RB+50RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20525	20624	QPSK	1	49	1	0	21.77
20476	20575	QPSK	1	49	1	0	21.78
20600	20501	QPSK	1	0	1	49	21.75

CA_7C Ant0 ECi6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	16.42
21100	21298	QPSK	1	99	1	0	16.52
21350	21152	QPSK	1	0	1	99	16.47

CA_7C Ant1 ECi6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	16.42
21100	21298	QPSK	1	99	1	0	16.52
21350	21152	QPSK	1	0	1	99	16.47

CA_41C Ant1 ECi7							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	14.37
40185	40383	QPSK	1	99	1	0	14.33
40620	40818	QPSK	1	99	1	0	14.38
41055	41253	QPSK	1	99	1	0	14.35
41490	41292	QPSK	1	0	1	99	14.38

CA_41C Ant1 ECi6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	19.44
40185	40383	QPSK	1	99	1	0	19.49
40620	40818	QPSK	1	99	1	0	19.5
41055	41253	QPSK	1	99	1	0	19.41
41490	41292	QPSK	1	0	1	99	19.3

CA_41C HPUE Ant0 ECi6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	25.32
40185	40383	QPSK	1	99	1	0	25.2
40620	40818	QPSK	1	99	1	0	25.47
41055	41253	QPSK	1	99	1	0	25.26
41490	41292	QPSK	1	0	1	99	25.14

CA_41C HPUE Ant1 ECi7							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	15.96
40185	40383	QPSK	1	99	1	0	16.02
40620	40818	QPSK	1	99	1	0	16.11
41055	41253	QPSK	1	99	1	0	16.06
41490	41292	QPSK	1	0	1	99	16.02

CA_41C HPUE Ant1 ECi6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	20.94
40185	40383	QPSK	1	99	1	0	21.01
40620	40818	QPSK	1	99	1	0	21.03
41055	41253	QPSK	1	99	1	0	20.99
41490	41292	QPSK	1	0	1	99	20.91

CA_66C Ant0 ECi6							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
132072	132270	QPSK	1	99	1	0	19.60
132322	132520	QPSK	1	99	1	0	19.78
132572	132374	QPSK	1	0	1	99	19.64

CA_66C Ant1 ECI7								
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	14.00	15.00
132322	132520	QPSK	1	99	1	0	14.05	15.00
132572	132374	QPSK	1	0	1	99	14.06	15.00

CA_66B Ant0 ECI6								
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	20.50
132322	132415	QPSK	1	74	1	0	19.46	20.50
132597	132504	QPSK	1	0	1	74	19.23	20.50

CA_66B Ant1 ECI7								
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	13.75	15.00
132322	132415	QPSK	1	74	1	0	13.83	15.00
132597	132504	QPSK	1	0	1	74	13.61	15.00

CA_48C Ant2 ECI6								
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	19.72	21.00
55830	56028	QPSK	1	99	1	0	19.84	21.00
56150	56348	QPSK	1	99	1	0	19.72	21.00
56640	56838	QPSK	1	99	1	0	18.44	20.00

CA_48C Ant4 ECI6								
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	20.66	21.50
55830	56028	QPSK	1	99	1	0	20.85	21.50
56150	56348	QPSK	1	99	1	0	20.70	21.50
56640	56442	QPSK	1	0	1	99	20.66	21.50

CA_48B Ant2 ECI6								
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	19.51	21.00
55820	55913	QPSK	1	74	1	0	19.31	21.00
56150	56243	QPSK	1	74	1	0	19.58	21.00
56665	56572	QPSK	1	0	1	24	19.56	21.00

CA_48B Ant4 ECI6								
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	20.28	21.50
55820	55913	QPSK	1	74	1	0	20.43	21.50
56150	56243	QPSK	1	74	1	0	20.55	21.50
56665	56572	QPSK	1	0	1	24	20.58	21.50

CA_66C Ant1 ECI6								
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	18.46	19.50
132322	132520	QPSK	1	99	1	0	18.43	19.50
132572	132374	QPSK	1	0	1	99	18.51	19.50

CA_66B Ant1 ECI6								
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	18.02	19.50
132322	132415	QPSK	1	74	1	0	18.23	19.50
132597	132504	QPSK	1	0	1	74	18.20	19.50

DL CA Power

2CA DL

CA List	PCC										SCC					Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuratio n		LTE	BW	DL	DL	DL Antenna Configuratio n	With CA	Without CA
	Band	Ant	(MHz)	Freq. Channel	(MHz)		RB	Offset			Band	(MHz)	Freq. Channel	(MHz)		Tx Power (dBm)	Tx Power (dBm)
CA_4A-25A	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO		Band 25	10M	722.5	9715		23.15	23.23
	Band 4	An0	20M	1732.5	20175	QPSK	4	0	4x4MIMO		Band 25	10M	722.5	9715		22.85	22.82
CA_4A-48A	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO	23.05	23.23
	Band 4	An1	20M	1732.5	20175	QPSK	1	0	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO	22.90	23.07
	Band 48	An2	20M	3609	55830	QPSK	1	0	4x4MIMO		Band 4	20M	2133	2175	4x4MIMO	22.71	22.83
	Band 48	An4	20M	3609	55830	QPSK	1	0	4x4MIMO		Band 4	20M	2133	2175	4x4MIMO	23.05	23.24
	Band 48	An5	20M	3609	55830	QPSK	1	0	4x4MIMO		Band 4	20M	2133	2175	4x4MIMO	22.79	22.89
	Band 48	An7	20M	3609	55830	QPSK	1	0	4x4MIMO		Band 4	20M	2133	2175	4x4MIMO	22.77	22.91
CA_5A-41A	Band 5	An0	10M	836.5	20525	QPSK	1	0			Band 41	20M	2593	40620	4x4MIMO	22.89	23.03
	Band 5	An1	10M	836.5	20525	QPSK	1	0			Band 41	20M	2593	40620	4x4MIMO	22.79	22.90
	Band 41	An0	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 5	10M	881.5	2525		23.08	23.24
	Band 41	An1	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 5	10M	881.5	2525		22.94	23.05
	Band 41	An2	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 5	10M	881.5	2525		22.71	22.85
	Band 41	An6	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 5	10M	881.5	2525		22.10	22.67
CA_7B	Band 7	An0	15M	2535	21100	QPSK	1	0	4x4MIMO		Band 7	5M	2544	3193	4x4MIMO	22.85	22.97
	Band 7	An1	15M	2535	21100	QPSK	1	0	4x4MIMO		Band 7	5M	2544	3193	4x4MIMO	22.99	23.15
CA_12A-48A	Band 12	An0	10M	707.5	23095	QPSK	1	0			Band 48	20M	3609	55830	4x4MIMO	22.87	23.05
	Band 12	An1	10M	707.5	23095	QPSK	1	0			Band 48	20M	3609	55830	4x4MIMO	22.98	23.10
CA_25A-41A	Band 25	An0	20M	1880	26340	QPSK	1	0	4x4MIMO		Band 41	20M	2593	40620	4x4MIMO	23.05	23.18
	Band 25	An1	20M	1880	26340	QPSK	1	0	4x4MIMO		Band 41	20M	2593	40620	4x4MIMO	22.97	23.13
	Band 41	An0	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 25	20M	1960	8340	4x4MIMO	23.06	23.24
	Band 41	An1	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 25	20M	1960	8340	4x4MIMO	22.88	23.05
	Band 41	An2	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 25	20M	1960	8340	4x4MIMO	22.65	22.85
	Band 41	An6	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 25	20M	1960	8340	4x4MIMO	22.57	22.67
CA_26A-41A	Band 26	An0	15M	831.5	26865	QPSK	1	0			Band 41	20M	2593	40620	4x4MIMO	22.92	23.09
	Band 26	An1	15M	831.5	26865	QPSK	1	0			Band 41	20M	2593	40620	4x4MIMO	22.75	22.93
	Band 41	An0	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 26	15M	876.5	8865		23.04	23.24
	Band 41	An1	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 26	15M	876.5	8865		22.93	23.05
	Band 41	An2	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 26	15M	876.5	8865		22.68	22.85
	Band 41	An6	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 26	15M	876.5	8865		22.49	22.67
CA_41A-41A	Band 41	An0	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 41	5M	2688	41565	4x4MIMO	23.04	23.24
	Band 41	An1	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 41	5M	2688	41565	4x4MIMO	22.86	23.05
	Band 41	An2	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 41	5M	2688	41565	4x4MIMO	22.68	22.85
	Band 41	An6	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 41	5M	2688	41565	4x4MIMO	22.53	22.67
CA_41A-48A	Band 41	An0	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO	23.13	23.24
	Band 41	An1	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO	22.86	23.05
	Band 41	An2	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO	22.72	22.85
	Band 41	An6	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO	22.11	22.67
	Band 48	An2	20M	3609	55830	QPSK	1	0	4x4MIMO		Band 41	20M	2593	40620	4x4MIMO	22.10	22.83
	Band 48	An4	20M	3609	55830	QPSK	1	0	4x4MIMO		Band 41	20M	2593	40620	4x4MIMO	23.15	23.24
	Band 48	An5	20M	3609	55830	QPSK	1	0	4x4MIMO		Band 41	20M	2593	40620	4x4MIMO	22.91	22.89
	Band 48	An7	20M	3609	55830	QPSK	1	0	4x4MIMO		Band 41	20M	2593	40620	4x4MIMO	22.71	22.91
CA_48B	Band 48	An2	10M	3607.5	55815	QPSK	1	0	4x4MIMO		Band 48	10M	3617	55914	4x4MIMO	22.69	22.83
	Band 48	An4	10M	3607.5	55815	QPSK	1	0	4x4MIMO		Band 48	10M	3617	55914	4x4MIMO	23.15	23.24
	Band 48	An5	10M	3607.5	55815	QPSK	1	0	4x4MIMO		Band 48	10M	3617	55914	4x4MIMO	22.79	22.89
	Band 48	An7	10M	3607.5	55815	QPSK	1	0	4x4MIMO		Band 48	10M	3617	55914	4x4MIMO	22.80	22.91

3CA DL

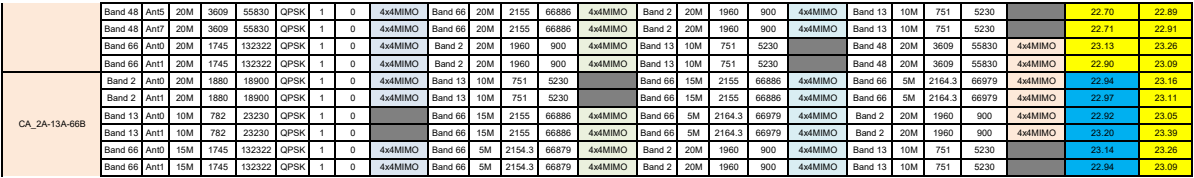
3CA List	PCC										SCC1					SCC2					Power	
	LTE	BW	BW	UL	UL		UL#	UL	DL Antenna Configuration		LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset			Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2C-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO		Band 2	20M	1979.8	1098	4xMIMO	Band 12	10M	737.5	5095		23.05	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO		Band 2	20M	1979.8	1098	4xMIMO	Band 12	10M	737.5	5095		22.99	23.11
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0			Band 2	20M	1960	900	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	22.95	23.05
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0			Band 2	20M	1960	900	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	22.90	23.10
CA_2A-4A-29A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 29	10M	722.5	9715		23.06	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 29	10M	722.5	9715		22.99	23.11
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 29	10M	722.5	9715		Band 2	20M	1960	900	4xMIMO	23.06	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 29	10M	722.5	9715		Band 2	20M	1960	900	4xMIMO	22.92	23.07
CA_2A-4A-30A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 30	10M	2355	9820	4xMIMO	23.00	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 30	10M	2355	9820	4xMIMO	22.96	23.11
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 30	10M	2355	9820	4xMIMO	Band 2	20M	1960	900	4xMIMO	23.11	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 30	10M	2355	9820	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.89	23.07
CA_2A-4A-30A	Band 30	Ant0	10M	2310	27710	QPSK	1	0	4xMIMO		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.87	23.02
	Band 30	Ant1	10M	2310	27710	QPSK	1	0	4xMIMO		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.86	22.96
	Band 30	Ant0	10M	2310	27710	QPSK	1	0	4xMIMO		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	23.03	23.16
	Band 30	Ant1	10M	2310	27710	QPSK	1	0	4xMIMO		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	23.04	23.14
CA_2A-6A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO		Band 6	10M	881.5	2525		Band 2	20M	1960	900	4xMIMO	23.06	23.06
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO		Band 6	10M	881.5	2525		Band 2	20M	1960	900	4xMIMO	23.06	23.06
	Band 6	Ant0	10M	836.5	20525	QPSK	1	0			Band 2	20M	1960	900	4xMIMO	Band 2	20M	1960	900	4xMIMO	23.06	23.06
	Band 6	Ant1	10M	836.5	20525	QPSK	1	0			Band 2	20M	1960	900	4xMIMO	Band 2	20M	1960	900	4xMIMO	23.06	23.06
CA_4A-4A-7A	Band 2	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 7	20M	2655	3100	4xMIMO	23.05	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 4	5M	2152.5	2375	4xMIMO	Band 7	20M	2655	3100	4xMIMO	22.93	23.07
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	22.84	22.97
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	22.96	23.15
CA_4A-5A-30A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4xMIMO	23.07	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4xMIMO	22.94	23.07
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0			Band 4	20M	2132.5	2175	4xMIMO	Band 30	10M	2355	9820	4xMIMO	22.83	23.03
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0			Band 30	10M	2355	9820	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.79	22.90
CA_4A-7A-71A	Band 30	Ant0	10M	2310	27710	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 5	10M	881.5	2525		22.84	23.02
	Band 30	Ant1	10M	2310	27710	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 5	10M	881.5	2525		22.81	22.96
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 7	20M	2655	3100	4xMIMO	Band 71	20M	683	68786		23.07	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 7	20M	2655	3100	4xMIMO	Band 71	20M	683	68786		22.91	23.07
CA_4A-7A-71A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4xMIMO		Band 71	20M	683	68786		Band 4	20M	2132.5	2175	4xMIMO	22.86	22.97
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO		Band 71	20M	683	68786		Band 4	20M	2132.5	2175	4xMIMO	23.06	23.15
	Band 71	Ant0	20M	683	133322	QPSK	1	0			Band 4	20M	2132.5	2175	4xMIMO	Band 7	20M	2655	3100	4xMIMO	23.08	23.28
	Band 71	Ant1	20M	683	133322	QPSK	1	0			Band 4	20M	2132.5	2175	4xMIMO	Band 7	20M	2655	3100	4xMIMO	23.04	23.18
CA_4A-12A-30A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4xMIMO	23.03	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4xMIMO	22.89	23.07
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0			Band 30	10M	2355	9820	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.92	23.05
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0			Band 30	10M	2355	9820	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.95	23.10
CA_4A-12A-30A	Band 30	Ant0	10M	2310	27710	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 12	10M	737.5	5095		22.93	23.02
	Band 30	Ant1	10M	2310	27710	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 12	10M	737.5	5095		22.80	22.96
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4xMIMO	23.12	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4xMIMO	22.96	23.07
CA_4A-29A-30A	Band 30	Ant0	10M	2310	27710	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 29	10M	722.5	9715		22.84	23.02
	Band 30	Ant1	10M	2310	27710	QPSK	1	0	4xMIMO		Band 4	20M	2132.5	2175	4xMIMO	Band 29	10M	722.5	9715		22.77	22.96
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 48	20M	3609	55830	4xMIMO	Band 48	20M	3628.8	56028	4xMIMO	23.11	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO		Band 48	20M	3609	55830	4xMIMO	Band 48	20M	3628.8	56028	4xMIMO	22.94	23.07
CA_4A-48C	Band 48	Ant0	20M	3609	55830	QPSK	1	0	4xMIMO		Band 48	20M	3628.8	56028	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.67	22.83
	Band 48	Ant1	20M	3609	55830	QPSK	1	0	4xMIMO		Band 48	20M	3628.8	56028	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	23.08	23.24
	Band 48	Ant0	20M	3609	55830	QPSK	1	0	4xMIMO		Band 48	20M	3628.8	56028	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.70	22.89
	Band 48	Ant1	20M	3609	55830	QPSK	1	0	4xMIMO		Band 48	20M	3628.8	56028	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.73	22.91
CA_7C-29A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4xMIMO		Band 7	20M	2554.8	3298	4xMIMO	Band 29	10M	722.5	9715		22.80	22.97
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO		Band 7	20M	2554.8	3298	4xMIMO	Band 29	10M	722.5	9715		23.05	23.15
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0			Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	23.09	23.26
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0			Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	22.98	23.10
CA_12A-66C	Band 66	Ant0																				

4CA DL

Configure	POC										SCC1				SCC2				SCC3				Power			
	LTE	BW	BW	UL	UL	ULF	UL	DL Antenna Configuration	LTE	BW	DL	DL Antenna Configuration	LTE	BW	DL	DL Antenna Configuration	LTE	BW	DL	DL Antenna Configuration	Tx Power (dBm)	Tx Power (dBm)				
	Band	Ant	(MHz)	Freq. (MHz)	Channel					Mod	RB			RB Offset	Band			(MHz)	Freq. (MHz)				Channel	Band	(MHz)	Freq. (MHz)
CA_2A-2A-4A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	23.06	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	23.00	23.11
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	23.06	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	22.96	23.07
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 5	10M	881.5	2525		23.06	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 5	10M	881.5	2525		22.93	23.11
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		23.04	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		22.93	23.07
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.85	23.03
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.80	22.90
CA_2A-2A-4A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 12	10M	737.5	5095		23.01	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 12	10M	737.5	5095		22.98	23.11
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 12	10M	737.5	5095		23.11	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 12	10M	737.5	5095		22.93	23.07
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.86	23.05
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.97	23.10
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 13	10M	751	5230		23.01	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 13	10M	751	5230		22.99	23.11
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 13	10M	751	5230		23.04	23.23
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 13	10M	751	5230		22.96	23.07
CA_2A-2A-4A-13A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.97	23.05
	Band 13	Ant1	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	23.19	23.39
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.97	23.11
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.97	23.11
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	22.88	23.03
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	22.77	22.90
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4xMIMO	22.97	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4xMIMO	22.97	23.11
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 7	20M	2655	3100	4xMIMO	22.94	23.03
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 7	20M	2655	3100	4xMIMO	22.72	22.90
CA_2A-2A-5A-7A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		22.88	22.97
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		22.96	23.15
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4xMIMO	22.93	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4xMIMO	22.99	23.11
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 30	10M	2355	9820	4xMIMO	22.89	23.03
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 30	10M	2355	9820	4xMIMO	22.79	22.90
	Band 30	Ant0	10M	2310	27710	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		22.93	23.02
	Band 30	Ant1	10M	2310	27710	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		22.77	22.96
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	68886	4xMIMO	23.01	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	68886	4xMIMO	22.92	23.11
CA_2A-2A-5A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 66	20M	2155	68886	4xMIMO	22.86	23.03
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 66	20M	2155	68886	4xMIMO	22.80	22.90
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		23.12	23.26
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		22.94	23.09
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 12	10M	737.5	5095		23.07	

CA_2A-2A-66A-71A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.03	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.92	23.11
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.06	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.99	23.09
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	23.06	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	22.98	23.11
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.14	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.93	23.09
	Band 71	An0	20M	683	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	23.12	23.28
	Band 71	An1	20M	683	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	23.05	23.18
CA_2A_4A-4A-5A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.99	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.93	23.11
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2132.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.11	23.23
	Band 4	An1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.87	23.07
	Band 5	An0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.84	23.05
	Band 5	An1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.73	22.90
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	23.04	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	23.02	23.11
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.10	23.23
	Band 4	An1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.90	23.07
CA_2A_4A-4A-12A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	23.10	23.23
	Band 4	An1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.90	23.07
	Band 12	An0	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.93	23.05
	Band 12	An1	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.95	23.10
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	22.97	23.10
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	22.97	23.11
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.07	23.23
	Band 4	An1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.86	23.07
	Band 13	An0	10M	782	23230	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.93	23.05
	Band 13	An1	10M	782	23230	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.22	23.39
CA_2A_4A-4A-13A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	23.02	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	22.98	23.11
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.04	23.23
	Band 4	An1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.86	23.07
	Band 13	An0	10M	782	23230	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.93	23.05
	Band 13	An1	10M	782	23230	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.22	23.39
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	23.02	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	22.98	23.11
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.04	23.23
	Band 4	An1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.89	23.07
CA_2A_4A-4A-71A	Band 71	An0	20M	683	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.12	23.28
	Band 71	An1	20M	683	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.05	23.18
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	888.7	2597	4x4MIMO	22.99	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	888.7	2597	4x4MIMO	22.97	23.11
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	888.7	2597	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.10	23.23
	Band 4	An1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	888.7	2597	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.98	23.07
	Band 5	An0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.88	23.05
	Band 5	An1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.79	22.90
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2548.4	3298	4x4MIMO	23.04	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2548.4	3298	4x4MIMO	22.93	23.11
CA_2A_4A-7A	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2548.4	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.08	23.23
	Band 4	An1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2548.4	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.94	23.07
	Band 7	An0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2548.4	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.89	22.97
	Band 7	An1	20M	2535																						

CA_2A-5A-66B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	15M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.83	23.03
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	15M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.80	22.90
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 5	10M	881.5	2525		23.10	23.26
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 5	10M	881.5	2525		22.94	23.09
CA_2A-5A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	22.98	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	22.95	23.11
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.93	23.03
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.83	22.90
CA_2A-5A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 5	10M	881.5	2525		23.16	23.26
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 5	10M	881.5	2525		22.96	23.09
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	23.04	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	23.01	23.11
CA_2A-5A-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.91	23.03
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.79	22.90
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 5	10M	881.5	2525		23.09	23.26
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 5	10M	881.5	2525		22.91	23.09
CA_2A-7C-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 13	10M	751	5230		23.05	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 13	10M	751	5230		23.03	23.11
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	22.88	23.05
	Band 13	Ant1	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	23.23	23.39
CA_2A-7A-7A-13A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4xMIMO	22.84	22.97
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4xMIMO	23.01	23.15
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 13	10M	751	5230		23.02	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 13	10M	751	5230		22.95	23.11
CA_2A-7A-7A-13A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	22.97	23.05
	Band 13	Ant1	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	23.19	23.39
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4xMIMO	22.78	22.97
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4xMIMO	23.03	23.15
CA_2A-7A-7A-29A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 29	10M	722.5	9715		23.02	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 29	10M	722.5	9715		22.95	23.11
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 29	10M	722.5	9715		Band 2	20M	1960	900	4xMIMO	22.77	22.97
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 29	10M	722.5	9715		Band 2	20M	1960	900	4xMIMO	23.02	23.15
CA_2A-7C-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 66	20M	2155	66886	4xMIMO	23.03	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 66	20M	2155	66886	4xMIMO	23.01	23.11
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 2	20M	1960	900	4xMIMO	23.02	23.15
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	23.07	23.26
CA_2A-7A-7A-66A	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	22.99	23.09
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 66	20M	2155	66886	4xMIMO	22.97	23.16
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 66	20M	2155	66886	4xMIMO	22.97	23.11
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.82	22.97
CA_2A-7A-12A-66A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 2	20M	1960	900	4xMIMO	23.05	23.15
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	22.93	23.11
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	22.99	23.09
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	5M	2687.5	3425	4xMIMO	Band 66	20M	2155	66886	4xMIMO	22.97	23.16
CA_2A-7A-12A-66A	Band 2</																									



CA_2A-13A-66C	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.98	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.00	23.11
	Band 13	An0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.94	23.05
	Band 13	An1	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.22	23.30
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.16	23.26
CA_2A-13A-66A-66A	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		22.96	23.00
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.02	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.92	23.11
	Band 13	An0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.93	23.05
	Band 13	An1	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.24	23.39
CA_2A-14A-30A-66A	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.12	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		22.99	23.09
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.04	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.92	23.11
	Band 14	An0	10M	793	23330	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.73	22.84
CA_2A-14A-30A-66A	Band 14	An1	10M	793	23330	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.86	22.97
	Band 30	An0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		22.86	23.02
	Band 30	An1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		22.83	22.96
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4x4MIMO	23.18	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4x4MIMO	22.96	23.00
CA_2A-14A-66A-66A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.07	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.98	23.11
	Band 14	An0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.73	22.84
	Band 14	An1	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.79	22.97
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		23.16	23.26
CA_2A-29A-30A-66A	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		22.93	23.00
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.97	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.94	23.11
	Band 30	An0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 29	10M	722.5	9715		22.87	23.02
	Band 30	An1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 29	10M	722.5	9715		22.85	22.96
CA_2A-30A-66A-66A	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	23.13	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	22.92	23.09
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.97	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.02	23.11
	Band 30	An0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.91	23.02
CA_2A-30A-66A-66A	Band 30	An1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.83	22.96
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.10	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.95	23.09
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.02	23.16
	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.02	23.11
CA_2A-48C	Band 48	An2	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.75	22.83
	Band 48	An4	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.14	23.24
	Band 48	An5	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.71	22.89
	Band 48	An7	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.77	22.91
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3660	55340	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	23.02	23.16
CA_2A-48A-48C	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3660	55340	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	23.14	23.24
	Band 48	An0	20M	3660	55340	QPSK	1	0	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.71	22.83
	Band 48	An5	20M	3660	55340	QPSK	1	0	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.69	22.89
	Band 48	An7	20M	3660	55340	QPSK	1	0	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.77	22.91
	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.96	23.16
CA_2A-48C-66A	Band 2	An1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.98	23.11
	Band 48	An2	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.70	22.83
	Band 48	An4	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.12	23.24
	Band 48	An5	20M</																							

CA_5B-66A-66A	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.14	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.95	23.09
	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.86	23.03
	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.75	22.90
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.18	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.96	23.09
CA_5A-5A-66B	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.88	23.03
	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.72	22.90
	Band 66	An0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		23.13	23.26
	Band 66	An1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		22.91	23.09
	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.93	23.03
	Band 66	An0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.75	22.90
CA_5A-5A-66C	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		23.18	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		22.92	23.09
	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.92	23.03
	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.71	22.90
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		23.08	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		22.92	23.09
CA_5A-7C-66A	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.93	23.03
	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.71	22.90
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2548.8	3298	4x4MIMO	23.15	23.26
	Band 7	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2548.8	3298	4x4MIMO	22.88	22.91
	Band 20	An0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525		23.06	23.15
	Band 66	An1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525		23.00	23.09
CA_5A-7A-66A-66A	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.85	23.03
	Band 7	An0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.83	22.91
	Band 7	An1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		23.03	23.15
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	23.07	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	22.91	23.09
	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.83	23.03
CA_5A-7A-7A-66A	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.82	22.90
	Band 7	An0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.85	22.97
	Band 7	An1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		23.04	23.15
	Band 7	An1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	22.81	22.97
	Band 7	An1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	23.02	23.15
	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.83	23.03
CA_5A-30A-66A-66A	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.74	22.90
	Band 30	An0	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.84	23.02
	Band 30	An1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.82	22.96
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4x4MIMO	23.11	23.26
	Band 66	An1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4x4MIMO	22.95	23.09
	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.85	23.03
CA_5A-48D	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.8	56226	4x4MIMO	22.95	23.03
	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.8	56226	4x4MIMO	22.77	22.90
	Band 48	An0	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 5	10M	881.5	2525		22.75	22.83
	Band 48	An1	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 5	10M	881.5	2525		23.04	23.24
	Band 48	An5	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 5	10M	881.5	2525		22.78	22.89
	Band 48	An7	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 5	10M	881.5	2525		22.74	22.91
CA_5A-48A-48C	Band 5	An0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	22.86	23.03
	Band 5	An1	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	22.70	22.90
	Band 48	An2	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	Band 5	10M	881.5	2525		22.83	22.83
	Band 48	An4	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	Band 5	10M	881.5	2525		23.15	23.24
	Band 48	An5	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	Band 5	10M	881.5	2525		22.71	22.80
	Band 48	An7	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	Band 5	10M	881.5	2525		22.77	22.91
CA_5A-48C-66																										

CA_13A-48A-66A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4xMIMO	Band 48	5M	3697.5	56715	4xMIMO	Band 66	20M	2155	66886	4xMIMO	22.95	23.05
	Band 13	Ant11	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4xMIMO	Band 48	5M	3697.5	56715	4xMIMO	Band 66	20M	2155	66886	4xMIMO	23.28	23.39
	Band 48	Ant2	20M	3609	55830	QPSK	1	0	4xMIMO	Band 48	5M	3697.5	56715	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 13	10M	751	5230		22.71	22.83
	Band 48	Ant4	20M	3609	55830	QPSK	1	0	4xMIMO	Band 48	5M	3697.5	56715	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 13	10M	751	5230		23.07	23.24
	Band 48	Ant5	20M	3609	55830	QPSK	1	0	4xMIMO	Band 48	5M	3697.5	56715	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 13	10M	751	5230		22.73	22.89
	Band 48	Ant7	20M	3609	55830	QPSK	1	0	4xMIMO	Band 48	5M	3697.5	56715	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 13	10M	751	5230		22.76	22.91
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4xMIMO	Band 48	5M	3697.5	56715	4xMIMO	23.10	23.26
	Band 66	Ant11	20M	1745	132322	QPSK	1	0	4xMIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4xMIMO	Band 48	5M	3697.5	56715	4xMIMO	23.00	23.09
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4xMIMO	Band 66	15M	2154.3	66879	4xMIMO	Band 66	5M	2154.3	66879	4xMIMO	22.85	23.05
	Band 13	Ant11	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4xMIMO	Band 66	15M	2154.3	66879	4xMIMO	Band 66	5M	2154.3	66879	4xMIMO	23.21	23.39
CA_13A-48A-66B	Band 48	Ant2	20M	3609	55830	QPSK	1	0	4xMIMO	Band 66	15M	2155	66886	4xMIMO	Band 66	5M	2164.3	66979	4xMIMO	Band 13	10M	751	5230		22.65	22.83
	Band 48	Ant4	20M	3609	55830	QPSK	1	0	4xMIMO	Band 66	15M	2155	66886	4xMIMO	Band 66	5M	2164.3	66979	4xMIMO	Band 13	10M	751	5230		23.05	23.24
	Band 48	Ant5	20M	3609	55830	QPSK	1	0	4xMIMO	Band 66	15M	2155	66886	4xMIMO	Band 66	5M	2164.3	66979	4xMIMO	Band 13	10M	751	5230		22.72	22.89
	Band 48	Ant7	20M	3609	55830	QPSK	1	0	4xMIMO	Band 66	15M	2155	66886	4xMIMO	Band 66	5M	2164.3	66979	4xMIMO	Band 13	10M	751	5230		22.73	22.91
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2154.3	66879	4xMIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4xMIMO	23.07	23.26
	Band 66	Ant11	15M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2154.3	66879	4xMIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4xMIMO	22.96	23.09
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4xMIMO	Band 66	20M	2145	66786	4xMIMO	Band 66	20M	2164.8	66984	4xMIMO	22.88	23.05
	Band 13	Ant11	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4xMIMO	Band 66	20M	2145	66786	4xMIMO	Band 66	20M	2164.8	66984	4xMIMO	23.28	23.39
	Band 48	Ant2	20M	3609	55830	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2164.8	66984	4xMIMO	Band 13	10M	751	5230		22.66	22.83
	Band 48	Ant4	20M	3609	55830	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2164.8	66984	4xMIMO	Band 13	10M	751	5230		23.13	23.24
CA_13A-48A-66C	Band 48	Ant5	20M	3609	55830	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2164.8	66984	4xMIMO	Band 13	10M	751	5230		22.74	22.89
	Band 48	Ant7	20M	3609	55830	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2164.8	66984	4xMIMO	Band 13	10M	751	5230		22.75	22.91
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4xMIMO	23.18	23.26
	Band 66	Ant11	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4xMIMO	23.00	23.09
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2120	66536	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 66	20M	2120	66536	4xMIMO	22.86	23.05
	Band 13	Ant11	10M	782	23230	QPSK	1	0		Band 66	20M	2120	66536	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 66	20M	2120	66536	4xMIMO	23.27	23.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 66	20M	2120	66536	4xMIMO	Band 13	10M	751	5230		23.11	23.26
	Band 66	Ant11	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 66	20M	2120	66536	4xMIMO	Band 13	10M	751	5230		22.93	23.09
	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 30	10M	2355	9820	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	22.69	22.84
	Band 14	Ant11	10M	793	23330	QPSK	1	0		Band 30	10M	2355	9820	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	22.80	22.97
CA_14A-30A-66A-66A	Band 30	Ant0	10M	2310	27710	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 14	10M	763	5330		22.86	23.02
	Band 30	Ant11	20M	2310	27710	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 14	10M	763	5330		22.81	22.96
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4xMIMO	23.17	23.26
	Band 66	Ant11	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4xMIMO	22.90	23.09
	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 66	20M	2120	66536	4xMIMO	22.69	22.84
	Band 14	Ant11	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 66	20M	2120	66536	4xMIMO	22.82	22.97
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 66	20M	2120	66536	4xMIMO	Band 14	10M	763	5330		23.13	23.26
	Band 66	Ant11	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 66	20M	2120	66536	4xMIMO	Band 14	10M	763	5330		22.93	23.09
	Band 25	Ant0	10M	1880	26340	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	23.07	23.18
	Band 25	Ant11	20M	1880	26340	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	23.16	23.13
CA_25A-41D	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 25	20M	1960	8340	4xMIMO	23.07	23.24
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 25	20M	1960	8340	4xMIMO	22.92	23.05
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 25	20M	1960	8340	4xMIMO	22.65	22.85
	Band 41	Ant6	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 25	20M	1960	8340	4xMIMO	22.16	22.87
	Band 30	Ant0	10M	2310																						



Full&Default Power Mode

n2 Ant0 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)
Channel				374000	376000	378000		
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	23.19	23.22	23.15		
40	PI2 BPSK	1	108	23.11	23.10	23.13	24.0	0.0
40	PI2 BPSK	1	214	22.96	23.17	23.11		
40	PI2 BPSK	108	0	22.39	22.58	22.39	23.5	0.5
40	PI2 BPSK	108	54	22.93	23.04	23.15	24.0	0.0
40	PI2 BPSK	108	108	22.51	22.49	22.43	23.5	0.5
40	PI2 BPSK	216	0	22.50	22.71	22.44		
40	QPSK	1	1	23.05	23.28	23.13		
40	QPSK	1	108	22.93	23.03	22.85	24.0	0.0
40	QPSK	1	214	22.93	23.06	22.77		
40	QPSK	108	0	21.93	22.04	22.16	23.0	1.0
40	QPSK	108	54	23.04	23.25	23.16	24.0	0.0
40	QPSK	108	108	22.01	22.05	22.05	23.0	1.0
40	QPSK	216	0	22.26	22.33	22.15		
40	16QAM	1	1	21.79	21.87	21.63	23.0	1.0
40	64QAM	1	1	20.27	20.34	20.22	21.5	2.5
40	256QAM	1	1	18.81	18.94	18.68	19.5	4.5
Channel				373000	376000	379000	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				1865	1880	1885		
30	QPSK	1	1	22.99	23.19	23.10	24.0	0.0
Channel				372500	376000	379500	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				1862.5	1880	1897.5		
25	QPSK	1	1	22.97	23.21	23.11	24.0	0.0
Channel				372000	376000	380000	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	1	22.86	23.30	23.09	24.0	0.0
Channel				371500	376000	380500	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.97	23.12	23.05	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.93	23.14	23.07	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				1853.5	1880	1907.5		
5	QPSK	1	1	22.99	23.10	23.11	24.0	0.0

n5 Ant0 Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.88	23.01	22.84		
20	PI2 BPSK	1	53	22.69	22.73	22.73	24.0	0.0
20	PI2 BPSK	1	104	22.64	22.66	22.61		
20	PI2 BPSK	50	0	22.36	22.47	22.45	23.5	0.5
20	PI2 BPSK	50	28	22.78	22.81	22.75	24.0	0.0
20	PI2 BPSK	50	56	22.25	22.28	22.16	23.5	0.5
20	PI2 BPSK	100	0	22.27	22.44	22.33		
20	QPSK	1	1	22.90	23.03	22.85		
20	QPSK	1	53	22.58	22.71	22.66	24.0	0.0
20	QPSK	1	104	22.63	22.74	22.67		
20	QPSK	50	0	21.90	21.90	21.90	23.0	1.0
20	QPSK	50	28	22.82	22.94	22.86	24.0	0.0
20	QPSK	50	56	21.70	21.77	21.65	23.0	1.0
20	QPSK	100	0	21.87	21.92	21.88		
20	16QAM	1	1	21.62	21.69	21.69	23.0	1.0
20	64QAM	1	1	20.20	20.25	20.13	21.5	2.5
20	256QAM	1	1	18.74	18.81	18.69	19.5	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.85	22.91	22.79	24.0	0.0
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.75	22.94	22.79	24.0	0.0
Channel				166300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	22.81	22.95	22.73	24.0	0.0

n7 Ant0 Default								
BW (MHz)	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	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	22.73	22.79	22.65		
50	PI2 BPSK	1	135	22.67	22.86	22.82	24.0	0.0
50	PI2 BPSK	1	268	22.59	22.64	22.65		
50	PI2 BPSK	135	0	22.22	22.37	22.25	23.5	0.5
50	PI2 BPSK	135	68	22.77	22.79	22.77	24.0	0.0
50	PI2 BPSK	135	135	22.14	22.18	22.05	23.5	0.5
50	PI2 BPSK	270	0	22.36	22.21	22.10		
50	QPSK	1	1	22.93	22.98	22.77		
50	QPSK	1	135	22.89	22.76	22.76	24.0	0.0
50	QPSK	1	268	22.52	22.70	22.56		
50	QPSK	135	0	22.05	22.20	22.11	23.0	1.0
50	QPSK	135	68	22.38	22.50	22.34	24.0	0.0
50	QPSK	135	135	21.75	21.91	21.83	23.0	1.0
50	16QAM	1	1	21.35	21.41	21.43	23.0	1.0
50	64QAM	1	1	19.88	20.06	19.92	21.5	2.5
50	256QAM	1	1	18.68	18.72	18.68	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	22.85	22.92	22.63	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.85	22.86	22.65	24.0	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.86	22.85	22.72	24.0	0.0
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.86	22.90	22.72	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	22.87	22.84	22.74	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.79	22.86	22.73	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	22.80	22.91	22.64	24.0	0.0



n12 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.81	22.96	22.97	24.0	0.0
15	PI2 BPSK	1	40	22.95	22.98	22.77		
15	PI2 BPSK	1	77	22.69	22.75	22.72		
15	PI2 BPSK	36	0	22.37	22.45	22.32	23.5	0.5
15	PI2 BPSK	36	22	22.70	22.92	22.67	24.0	0.0
15	PI2 BPSK	36	43	21.99	22.05	21.94	23.5	0.5
15	PI2 BPSK	75	0	22.22	22.36	22.19		
15	QPSK	1	1	22.95	23.07	22.81		
15	QPSK	1	40	22.72	22.97	22.84	24.0	0.0
15	QPSK	1	77	22.71	22.83	22.88		
15	QPSK	36	0	21.82	22.07	21.88	23.0	1.0
15	QPSK	36	22	22.82	22.89	22.84	24.0	0.0
15	QPSK	36	43	21.69	21.65	21.52	23.0	1.0
15	QPSK	75	0	21.72	21.77	21.66		
15	16QAM	1	1	21.75	21.78	21.72	23.0	1.0
15	64QAM	1	1	20.08	20.20	20.25	21.5	2.5
15	256QAM	1	1	18.75	18.69	18.76	19.5	4.5
Channel				140900	141500	142000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.78	22.87	22.69	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	22.74	22.87	22.63	24.0	0.0

n14 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158100	158600			
Frequency (MHz)				793				
10	PI2 BPSK	1	1	23.12			24.0	0.0
10	PI2 BPSK	1	26	23.05				
10	PI2 BPSK	1	50	22.94				
10	PI2 BPSK	25	0	22.87			23.5	0.5
10	PI2 BPSK	25	14	23.01			24.0	0.0
10	PI2 BPSK	25	27	22.81			23.5	0.5
10	PI2 BPSK	50	0	22.65				
10	QPSK	1	1	23.33				
10	QPSK	1	26	23.12			24.0	0.0
10	QPSK	1	50	23.04				
10	QPSK	25	0	22.23			23.0	1.0
10	QPSK	25	14	23.29			24.0	0.0
10	QPSK	25	27	22.20			23.0	1.0
10	QPSK	50	0	22.28				
10	16QAM	1	1	21.88			23.0	1.0
10	64QAM	1	1	20.53			21.5	2.5
10	256QAM	1	1	19.10			19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	23.23	23.30	23.26	24.0	0.0

n25 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374000	376500	379000		
Frequency (MHz)				1870	1882.5	1895		
40	PI2 BPSK	1	1	23.14	23.21	22.97	24.0	0.0
40	PI2 BPSK	1	108	23.07	23.17	23.01		
40	PI2 BPSK	1	214	22.83	23.13	22.80		
40	PI2 BPSK	108	0	22.42	22.49	22.54	23.5	0.5
40	PI2 BPSK	108	54	23.28	23.31	23.08	24.0	0.0
40	PI2 BPSK	108	108	22.55	22.56	22.48	23.5	0.5
40	PI2 BPSK	216	0	22.65	22.85	22.63		
40	QPSK	1	1	23.27	23.34	23.26		
40	QPSK	1	108	23.10	23.16	23.22	24.0	0.0
40	QPSK	1	214	22.95	23.22	23.11		
40	QPSK	108	0	21.94	22.18	21.95	23.0	1.0
40	QPSK	108	54	23.05	23.12	23.06	24.0	0.0
40	QPSK	108	108	22.02	22.01	22.01	23.0	1.0
40	QPSK	216	0	22.28	22.29	22.20		
40	16QAM	1	1	21.57	21.76	21.57	23.0	1.0
40	64QAM	1	1	20.15	20.40	20.24	21.5	2.5
40	256QAM	1	1	18.93	18.94	18.90	19.5	4.5
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	23.13	23.23	23.24	24.0	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1902.5		
25	QPSK	1	1	23.09	23.17	23.13	24.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	23.29	23.33	23.11	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	23.08	23.12	23.23	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	23.08	23.13	23.20	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	23.17	23.22	23.21	24.0	0.0



n26 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.99	23.09	23.04	24.0	0.0
20	PI2 BPSK	1	53	22.80	22.94	22.75		
20	PI2 BPSK	1	104	22.75	22.78	22.63		
20	PI2 BPSK	50	0	22.51	22.82	22.55	23.5	0.5
20	PI2 BPSK	50	28	22.93	22.98	22.96	24.0	0.0
20	PI2 BPSK	50	56	22.26	22.41	22.26	23.5	0.5
20	PI2 BPSK	100	0	22.38	22.40	22.35		
20	QPSK	1	1	23.07	23.16	23.05		
20	QPSK	1	53	22.79	22.91	22.84	24.0	0.0
20	QPSK	1	104	22.73	22.76	22.68		
20	QPSK	50	0	22.01	22.12	22.11	23.0	1.0
20	QPSK	50	28	22.95	23.00	22.82	24.0	0.0
20	QPSK	50	56	21.82	21.87	21.70	23.0	1.0
20	QPSK	100	0	21.91	21.94	21.88		
20	16QAM	1	1	21.78	21.86	21.80	23.0	1.0
20	64QAM	1	1	20.31	20.46	20.42	21.5	2.5
20	256QAM	1	1	19.05	19.02	19.00	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.99	23.02	22.94	24.0	0.0
Channel				163000	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816	831.5	844		
10	QPSK	1	1	23.01	23.08	23.00	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.92	23.04	22.92	24.0	0.0

n30 Ant0 Default

BW [MHz]	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			
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	23.30			24.0	0.0
10	PI2 BPSK	1	28	23.40				
10	PI2 BPSK	1	50	23.38				
10	PI2 BPSK	25	0	22.88			23.5	0.5
10	PI2 BPSK	25	14	23.36			24.0	0.0
10	PI2 BPSK	25	27	22.97			23.5	0.5
10	PI2 BPSK	50	0	22.89				
10	QPSK	1	1	23.49				
10	QPSK	1	28	23.31			24.0	0.0
10	QPSK	1	50	23.34				
10	QPSK	25	0	22.38			23.0	1.0
10	QPSK	25	14	23.42			24.0	0.0
10	QPSK	25	27	22.30			23.0	1.0
10	QPSK	50	0	22.38				
10	16QAM	1	1	21.88			23.0	1.0
10	64QAM	1	1	20.45			21.5	2.5
10	256QAM	1	1	19.21			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	23.32	23.41	23.13	24.0	0.0

n66 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	23.07	23.18	23.03	24.0	0.0
40	PI2 BPSK	1	108	23.07	23.12	22.98		
40	PI2 BPSK	1	214	23.01	23.05	22.94		
40	PI2 BPSK	108	0	22.95	22.83	22.96	23.5	0.5
40	PI2 BPSK	108	54	23.03	23.08	22.98	24.0	0.0
40	PI2 BPSK	108	108	22.45	22.51	22.46	23.5	0.5
40	PI2 BPSK	216	0	22.44	22.52	22.43		
40	QPSK	1	1	23.15	23.24	23.20		
40	QPSK	1	108	23.14	23.19	23.07	24.0	0.0
40	QPSK	1	214	23.00	23.13	23.01		
40	QPSK	108	0	22.01	22.15	22.11	23.0	1.0
40	QPSK	108	54	23.12	23.18	23.15	24.0	0.0
40	QPSK	108	108	21.95	22.00	21.91	23.0	1.0
40	QPSK	216	0	22.06	22.13	22.10		
40	16QAM	1	1	21.72	21.82	21.77	23.0	1.0
40	64QAM	1	1	20.22	20.30	20.27	21.5	2.5
40	256QAM	1	1	18.69	18.82	18.78	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.00	23.10	23.17	24.0	0.0
Channel				343500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.09	23.12	23.11	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.08	23.19	23.10	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.04	23.12	23.17	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1772		
10	QPSK	1	1	23.02	23.18	23.14	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.00	23.19	23.07	24.0	0.0

n70 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				340500				
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	23.09			24.0	0.0
15	PI2 BPSK	1	40	22.98				
15	PI2 BPSK	1	77	23.18				
15	PI2 BPSK	36	0	22.84			23.5	0.5
15	PI2 BPSK	36	22	23.04			24.0	0.0
15	PI2 BPSK	36	43	22.94			23.5	0.5
15	PI2 BPSK	75	0	22.53				
15	QPSK	1	1	23.29			24.0	0.0
15	QPSK	1	40	23.09				
15	QPSK	1	77	22.98				
15	QPSK	36	0	22.12			23.0	1.0
15	QPSK	36	22	23.22			24.0	0.0
15	QPSK	36	43	22.02			23.0	1.0
15	QPSK	75	0	22.18				
15	16QAM	1	1	21.96			23.0	1.0
15	64QAM	1	1	20.38			21.5	2.5
15	256QAM	1	1	18.81			19.5	4.5
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	23.14	23.20	23.08	24.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	23.05	23.10	23.06	24.0	0.0

n71 Ant0 Default

BW [MHz]	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	23.10	23.20	23.01	24.0	0.0
20	PI2 BPSK	1	53	22.95	23.19	23.16		
20	PI2 BPSK	1	104	22.84	22.99	22.95		
20	PI2 BPSK	50	0	22.79	22.86	22.88	23.5	0.5
20	PI2 BPSK	50	28	22.95	23.02	22.90	24.0	0.0
20	PI2 BPSK	50	56	22.62	22.78	22.68	23.5	0.5
20	PI2 BPSK	100	0	22.70	22.80	22.69		
20	QPSK	1	1	23.14	23.25	22.96	24.0	0.0
20	QPSK	1	53	23.13	23.21	22.91		
20	QPSK	1	104	23.08	23.00	23.05		
20	QPSK	50	0	22.19	22.25	22.18	23.0	1.0
20	QPSK	50	28	22.99	23.21	23.82	24.0	0.0
20	QPSK	50	56	22.14	22.11	22.23	23.0	1.0
20	QPSK	100	0	22.12	22.17	22.15		
20	16QAM	1	1	21.67	21.95	21.77	23.0	1.0
20	64QAM	1	1	20.31	20.36	20.44	21.5	2.5
20	256QAM	1	1	18.67	18.56	18.57	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.04	23.05	22.88	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.96	23.20	22.78	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.10	23.19	22.85	24.0	0.0



n38 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	516000	516998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	22.94	22.97	22.81			
40	PQ2 BPSK	1	53	22.76	22.87	22.81	24.0	0.0	
40	PQ2 BPSK	1	104	22.77	22.97	22.87			
40	PQ2 BPSK	50	0	22.38	22.37	22.47	23.5	0.5	
40	PQ2 BPSK	50	28	22.98	23.04	22.80	24.0	0.0	
40	PQ2 BPSK	50	58	22.46	22.52	22.40			
40	PQ2 BPSK	100	0	22.21	22.27	22.22	23.5	0.5	
40	QPSK	1	1	22.94	23.04	22.88			
40	QPSK	1	53	22.83	22.80	22.73	24.0	0.0	
40	QPSK	1	104	22.34	22.46	22.37			
40	QPSK	50	0	21.85	21.92	21.65	23.0	1.0	
40	QPSK	50	28	22.58	22.97	22.77	24.0	0.0	
40	QPSK	50	58	21.91	22.12	21.86	23.0	1.0	
40	QPSK	100	0	21.79	21.95	21.90			
40	16QAM	1	1	21.14	21.41	21.22	23.0	1.0	
40	64QAM	1	1	19.69	19.78	19.58	21.5	2.5	
40	256QAM	1	1	18.24	18.30	18.13	19.5	4.5	
Channel				517002	516000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.91	23.02	22.83	24.0	0.0	
Channel				516504	516000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	22.76	23.00	22.69	24.0	0.0	
Channel				516000	516000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.81	22.82	22.67	24.0	0.0	
Channel				515502	516000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2617.51	2595	2612.49			
15	QPSK	1	1	22.74	22.96	22.74	24.0	0.0	
Channel				515004	516000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2675.02	2595	2614.98			
10	QPSK	1	1	22.95	22.97	22.82	24.0	0.0	

n41 PC3 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.41	22.54	22.53			
100	PQ2 BPSK	1	137	22.64	22.59	22.47	24.0	0.0	
100	PQ2 BPSK	1	271	22.33	22.53	22.34			
100	PQ2 BPSK	135	0	22.43	22.53	22.54	24.0	0.0	
100	PQ2 BPSK	135	69	22.70	22.64	22.74	24.0	0.0	
100	PQ2 BPSK	135	138	22.68	22.58	22.79	24.0	0.0	
100	PQ2 BPSK	270	0	22.43	22.61	22.64			
100	QPSK	1	1	22.81	22.94	22.74			
100	QPSK	1	137	22.58	22.71	22.63	24.0	0.0	
100	QPSK	1	271	22.19	22.32	22.25			
100	QPSK	135	0	22.54	22.66	22.50	24.0	0.0	
100	QPSK	135	69	22.76	22.80	22.74	24.0	0.0	
100	QPSK	135	138	22.80	22.58	22.53	24.0	0.0	
100	QPSK	270	0	22.65	22.71	22.65			
100	16QAM	1	1	22.25	22.27	22.19	24.0	0.0	
100	64QAM	1	1	22.34	22.17	22.37	24.0	0.0	
100	256QAM	1	1	20.81	20.82	20.74	22.5	1.5	
Channel				505200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.72	22.78	22.68	24.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	22.73	22.90	22.60	24.0	0.0	
Channel				505002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.61	22.82	22.59	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	22.62	22.76	22.61	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	22.68	22.79	22.72	24.0	0.0	
Channel				505200	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.64	22.75	22.68	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.69	22.83	22.57	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.79	22.90	22.58	24.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.80	22.78	22.58	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	22.68	22.86	22.66	24.0	0.0	

n41 PC2 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	530000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	25.72	25.76	25.88			
100	PQ2 BPSK	1	137	25.69	25.79	25.61	27.0	0.0	
100	PQ2 BPSK	1	271	25.89	25.62	25.75			
100	PQ2 BPSK	135	0	24.98	25.27	25.09	26.5	0.5	
100	PQ2 BPSK	135	69	25.84	25.89	25.55	27.0	0.0	
100	PQ2 BPSK	135	138	25.17	25.20	25.20	26.5	0.5	
100	PQ2 BPSK	270	0	25.32	25.26	25.26			
100	QPSK	1	1	25.85	25.87	25.89			
100	QPSK	1	137	25.72	25.86	25.77	27.0	0.0	
100	QPSK	1	271	25.83	25.69	25.76			
100	QPSK	135	0	24.48	24.76	24.59	26.0	1.0	
100	QPSK	135	69	25.64	25.88	25.71	27.0	0.0	
100	QPSK	135	138	24.81	24.82	24.86	26.0	1.0	
100	QPSK	270	0	24.85	24.76	24.74			
100	16QAM	1	1	24.30	24.23	24.35	26.0	1.0	
100	64QAM	1	1	22.76	22.66	22.74	24.5	2.5	
100	256QAM	1	1	21.11	21.33	21.28	22.5	4.5	
Channel				505200	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.84	25.82	25.82	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.74	25.95	25.73	27.0	0.0	
Channel				505002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.72	25.87	25.81	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	25.87	25.82	25.76	27.0	0.0	



n2 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374500	376000	376900	24.0	0.0
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	22.81	22.85	22.83		
40	PI2 BPSK	1	108	22.71	22.67	22.63	23.5	0.5
40	PI2 BPSK	1	214	22.58	22.52	22.57		
40	PI2 BPSK	108	0	22.33	22.24	22.24		
40	PI2 BPSK	108	54	22.62	22.74	22.60	23.5	0.5
40	PI2 BPSK	108	108	22.14	22.15	22.20		
40	PI2 BPSK	216	0	22.14	22.38	22.38		
40	QPSK	1	1	22.75	22.88	22.82	24.0	0.0
40	QPSK	1	108	22.64	22.80	22.76		
40	QPSK	1	214	22.81	22.77	22.76		
40	QPSK	108	0	21.84	21.81	21.62	23.0	1.0
40	QPSK	108	54	22.70	22.85	22.81		
40	QPSK	108	108	21.59	21.72	21.71		
40	QPSK	216	0	21.85	21.77	21.54	23.0	1.0
40	16QAM	1	1	21.32	21.34	21.26		
40	64QAM	1	1	20.05	20.11	20.07		
40	256QAM	1	1	18.64	18.77	18.58	19.5	4.5
Channel				372000	376000	376900	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.58	22.78	22.65	24.0	0.0
Channel				372500	376000	376900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1822.5	1850	1897.5	24.0	0.0
25	QPSK	1	1	22.70	22.80	22.68		
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900	24.0	0.0
20	QPSK	1	1	22.68	22.68	22.78		
Channel				371500	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1900.5	24.0	0.0
15	QPSK	1	1	22.63	22.74	22.79		
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905	24.0	0.0
10	QPSK	1	1	22.66	22.85	22.63		
Channel				371000	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5	24.0	0.0
5	QPSK	1	1	22.62	22.86	22.64		

n5 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				168000	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.89	22.91	22.85		
20	PI2 BPSK	1	53	22.71	22.78	22.80	23.5	0.5
20	PI2 BPSK	1	104	22.65	22.72	22.78		
20	PI2 BPSK	50	0	22.39	22.45	22.40		
20	PI2 BPSK	50	28	22.79	22.85	22.84	23.5	0.5
20	PI2 BPSK	50	58	22.21	22.28	22.20		
20	PI2 BPSK	100	0	22.30	22.40	22.34		
20	QPSK	1	1	22.91	22.96	22.91	24.0	0.0
20	QPSK	1	53	22.67	22.78	22.62		
20	QPSK	1	104	22.53	22.83	22.59		
20	QPSK	50	0	21.80	22.11	21.98	23.0	1.0
20	QPSK	50	28	22.73	22.95	22.78		
20	QPSK	50	58	21.58	21.86	21.84		
20	QPSK	100	0	21.75	21.84	21.79	23.0	1.0
20	16QAM	1	1	21.75	21.84	21.62		
20	64QAM	1	1	20.18	20.38	20.29		
20	256QAM	1	1	18.65	18.58	18.69	19.5	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0
15	QPSK	1	1	22.71	22.95	22.87		
Channel				168500	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844	24.0	0.0
10	QPSK	1	1	22.78	22.79	22.79		
Channel				168300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0
5	QPSK	1	1	22.79	22.81	22.90		

n7 Ant1 Default

BW [MHz]	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	507000	509000	24.0	0.0
Frequency (MHz)				2505	2535	2545		
50	PI2 BPSK	1	1	23.35	23.44	23.36	23.5	0.5
50	PI2 BPSK	1	135	23.28	23.40	23.21		
50	PI2 BPSK	1	268	23.25	23.33	23.22		
50	PI2 BPSK	135	0	23.04	23.08	22.91	23.5	0.5
50	PI2 BPSK	135	68	23.24	23.41	23.25		
50	PI2 BPSK	135	135	22.98	23.07	22.99		
50	PI2 BPSK	270	0	23.11	23.13	23.06	24.0	0.0
50	QPSK	1	1	23.37	23.48	23.43		
50	QPSK	1	135	23.33	23.40	23.40		
50	QPSK	1	268	23.35	23.35	23.29	23.0	1.0
50	QPSK	135	0	22.31	22.43	22.32		
50	QPSK	135	68	23.32	23.42	23.33		
50	QPSK	135	135	22.30	22.23	22.15	23.0	1.0
50	QPSK	270	0	22.20	22.30	22.21		
50	16QAM	1	1	21.84	22.00	21.87		
50	64QAM	1	1	20.48	20.60	20.45	21.5	2.5
50	256QAM	1	1	19.17	19.24	19.16	19.5	4.5
Channel				505200	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550	24.0	0.0
40	QPSK	1	1	23.28	23.35	23.38		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	24.0	0.0
30	QPSK	1	1	23.28	23.41	23.32		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0
25	QPSK	1	1	23.31	23.38	23.33		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	23.8	0.0
20	QPSK	1	1	23.26	23.35	23.28		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	23.3	0.0
15	QPSK	1	1	23.28	23.43	23.31		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	23.30	0.0
10	QPSK	1	1	23.33	23.40	23.30		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0
5	QPSK	1	1	23.28	23.38	23.33		



n12 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700	24.0	0.0
Frequency (MHz)				708.5	707.5	708.5		
15	PV2 BPSK	1	1	23.10	23.07	23.10		
15	PV2 BPSK	1	40	22.82	22.85	22.87		
15	PV2 BPSK	1	77	22.38	22.55	22.59	23.5	0.5
15	PV2 BPSK	36	0	22.83	22.83	22.89	23.5	0.5
15	PV2 BPSK	36	22	23.06	22.94	22.91	24.0	0.0
15	PV2 BPSK	36	43	22.29	22.34	22.19	23.5	0.5
15	PV2 BPSK	75	0	22.52	22.48	22.46	24.0	0.0
15	QPSK	1	1	23.12	23.17	23.00		
15	QPSK	1	40	22.77	22.88	22.91		
15	QPSK	1	77	22.48	22.54	22.29		
15	QPSK	36	0	22.18	22.11	22.13	23.0	1.0
15	QPSK	36	22	22.98	23.07	23.02	24.0	0.0
15	QPSK	36	43	21.94	22.05	22.01	23.0	1.0
15	QPSK	75	0	22.14	22.27	22.02	23.0	1.0
15	16QAM	1	1	21.93	21.86	21.77		
15	64QAM	1	1	20.32	20.61	20.47		
15	256QAM	1	1	18.85	18.84	18.80		
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711	24.0	0.0
10	QPSK	1	1	23.00	23.03	22.88	24.0	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5	24.0	0.0
5	QPSK	1	1	23.01	23.09	22.78	24.0	0.0

n14 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158000			24.0	0.0
Frequency (MHz)				793				
10	PV2 BPSK	1	1		22.90			
10	PV2 BPSK	1	26		22.88			
10	PV2 BPSK	1	50		22.87		23.5	0.5
10	PV2 BPSK	25	0		22.33		23.5	0.5
10	PV2 BPSK	25	14		22.82		24.0	0.0
10	PV2 BPSK	25	27		22.37		23.5	0.5
10	PV2 BPSK	50	0		22.34		24.0	0.0
10	QPSK	1	1		22.94			
10	QPSK	1	26		22.90			
10	QPSK	1	50		22.88			
10	QPSK	25	0		21.80		23.0	1.0
10	QPSK	25	14		22.85		24.0	0.0
10	QPSK	25	27		21.84		23.0	1.0
10	QPSK	50	0		21.90		23.0	1.0
10	16QAM	1	1		21.60			
10	64QAM	1	1		20.03			
10	256QAM	1	1		18.30			
Channel				158100	158000	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5	24.0	0.0
5	QPSK	1	1	22.70	22.79	22.66	24.0	0.0

n25 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374500	376500	378500	24.0	0.0
Frequency (MHz)				1870	1882.5	1895		
40	PV2 BPSK	1	1	23.02	23.11	22.96		
40	PV2 BPSK	1	108	22.99	22.86	22.73		
40	PV2 BPSK	1	214	22.89	23.13	22.94	23.5	0.5
40	PV2 BPSK	108	0	22.55	22.39	22.51	23.5	0.5
40	PV2 BPSK	108	54	22.88	23.01	22.73	24.0	0.0
40	PV2 BPSK	108	108	22.37	22.24	22.46	23.5	0.5
40	PV2 BPSK	216	0	22.28	22.50	22.52	24.0	0.0
40	QPSK	1	1	23.95	23.15	23.04		
40	QPSK	1	108	22.93	23.02	22.98		
40	QPSK	1	214	22.95	22.90	22.92		
40	QPSK	108	0	21.93	22.02	21.82	23.0	1.0
40	QPSK	108	54	22.82	23.12	23.07	24.0	0.0
40	QPSK	108	108	21.81	21.83	21.84	23.0	1.0
40	QPSK	216	0	21.98	22.01	21.70	23.0	1.0
40	16QAM	1	1	21.41	21.45	21.43		
40	64QAM	1	1	20.14	20.38	20.34		
40	256QAM	1	1	18.78	19.06	18.78		
Channel				375000	376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1885	1882.5	1900	24.0	0.0
30	QPSK	1	1	23.01	22.99	22.98	24.0	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1882.5	1882.5	1902.5	24.0	0.0
25	QPSK	1	1	22.99	23.01	22.97	24.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1880	1882.5	1905	24.0	0.0
20	QPSK	1	1	22.88	23.03	23.05	24.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1887.5	1882.5	1907.5	24.0	0.0
15	QPSK	1	1	22.84	23.05	23.04	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1885	1882.5	1910	24.0	0.0
10	QPSK	1	1	22.83	23.11	22.85	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1882.5	1882.5	1912.5	24.0	0.0
5	QPSK	1	1	23.06	22.99	22.87	24.0	0.0



n26 Ant1 Default												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (db)				
Channel				166500	166300	167600	24.0	0.0				
Frequency (MHz)				824	831.5	839						
20	PI2 BPSK	1	1	22.77	22.98	22.93				23.5	0.5	
20	PI2 BPSK	1	53	22.66	23.03	22.83						
20	PI2 BPSK	1	104	22.73	22.90	22.92						
20	PI2 BPSK	50	0	22.17	22.24	22.39	23.0	0.0				
20	PI2 BPSK	50	28	22.74	22.91	22.76	24.0	0.0				
20	PI2 BPSK	50	56	22.34	22.33	22.38	23.5	0.5				
20	PI2 BPSK	100	0	22.45	22.64	22.49	24.0	0.0				
20	QPSK	1	1	23.05	23.10	22.97						
20	QPSK	1	53	22.84	22.84	22.96						
20	QPSK	1	104	22.69	22.76	22.61						
20	QPSK	50	0	21.73	22.04	21.99	23.0	1.0				
20	QPSK	50	28	22.83	23.07	22.77	24.0	0.0				
20	QPSK	50	56	21.91	21.82	21.81	23.0	1.0				
20	QPSK	100	0	21.80	21.83	21.81	23.0	1.0				
20	16QAM	1	1	21.82	21.80	21.90						
20	64QAM	1	1	20.40	20.32	20.27						
20	256QAM	1	1	18.43	18.48	18.37						
Channel				164300	166300	166300	Tune-up limit (dBm)	MPR (db)				
15	QPSK	1	1	23.03	23.06	22.87	24.0	0.0				
Channel				163600	166300	166800	Tune-up limit (dBm)	MPR (db)				
Frequency (MHz)				810	831.5	844	24.0	0.0				
10	QPSK	1	1	22.86	23.03	22.92						
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (db)				
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0				
5	QPSK	1	1	22.84	22.90	22.93						

n30 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				460000	460000		24.0	0.0	
Frequency (MHz)				2310					
10	PI2 BPSK	1	1		23.28				
10	PI2 BPSK	1	26		23.23				
10	PI2 BPSK	1	50		23.21		23.5	0.5	
10	PI2 BPSK	25	0		22.80		23.0	0.0	
10	PI2 BPSK	25	14		23.26		23.5	0.5	
10	PI2 BPSK	25	27		22.86		24.0	0.0	
10	PI2 BPSK	50	0		22.83		23.0	0.0	
10	QPSK	1	1		23.32		24.0	0.0	
10	QPSK	1	26		23.23				
10	QPSK	1	50		23.27				
10	QPSK	25	0		22.33		23.0	1.0	
10	QPSK	25	14		23.25		24.0	0.0	
10	QPSK	25	27		22.21		23.0	1.0	
10	QPSK	50	0		22.27		23.0	1.0	
10	16QAM	1	1		21.87		23.0	1.0	
10	64QAM	1	1		20.40		21.5	2.5	
10	256QAM	1	1		19.15		19.5	4.5	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5	24.0	0.0	
5	QPSK	1	1	23.20	23.22	23.17			

n66 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	346000	353000	24.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.27	23.32	23.25			
40	PI2 BPSK	1	108	23.18	23.28	23.19	24.0	0.0	
40	PI2 BPSK	1	214	23.07	23.20	23.17	23.5	0.5	
40	PI2 BPSK	108	0	22.76	22.82	22.72	23.5	0.5	
40	PI2 BPSK	108	54	23.20	23.26	23.14	24.0	0.0	
40	PI2 BPSK	108	108	22.69	22.75	22.60	23.5	0.5	
40	PI2 BPSK	216	0	22.72	22.85	22.79	24.0	0.0	
40	QPSK	1	1	23.21	23.35	23.29			
40	QPSK	1	108	23.13	23.21	23.16			
40	QPSK	1	214	23.13	23.18	23.11			
40	QPSK	108	0	22.23	22.31	22.19	23.0	1.0	
40	QPSK	108	54	23.15	23.28	23.18	24.0	0.0	
40	QPSK	108	108	22.26	22.33	22.22	23.0	1.0	
40	QPSK	216	0	22.24	22.37	22.28	23.0	1.0	
40	16QAM	1	1	21.80	21.92	21.82	23.0	1.0	
40	64QAM	1	1	20.35	20.50	20.37	21.5	2.5	
40	256QAM	1	1	18.94	19.05	18.97	19.5	4.5	
Channel				350000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.18	23.23	23.18			
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0	
25	QPSK	1	1	23.09	23.27	23.25			
Channel				344000	349000	344000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.12	23.30	23.14			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.11	23.29	23.21			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.08	23.24	23.20			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.12	23.31	23.20			

n70 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340500			24.0	0.0	
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1		22.93		23.5	0.5	
15	PI2 BPSK	1	40		22.97				
15	PI2 BPSK	1	77		22.95				
15	PI2 BPSK	36	0		22.49		24.0	0.0	
15	PI2 BPSK	36	22		22.93				
15	PI2 BPSK	36	43		22.40				
15	PI2 BPSK	75	0		22.57		24.0	0.0	
15	QPSK	1	1		23.13				
15	QPSK	1	40		22.94				
15	QPSK	1	77		22.90		23.0	1.0	
15	QPSK	36	0		21.93				
15	QPSK	36	22		23.07				
15	QPSK	36	43		21.96		23.0	1.0	
15	QPSK	75	0		21.83				
15	16QAM	1	1		21.79		21.5	2.5	
15	64QAM	1	1		20.21				
15	256QAM	1	1		18.64				
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	23.03	23.07	22.91	24.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	22.92	23.00	22.88	24.0	0.0	

n71 Ant1 Default									
BW [MHz]	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	24.0	0.0	
Frequency (MHz)				673		680.5			
20	PI2 BPSK	1	1		22.96	23.12	23.5	0.5	
20	PI2 BPSK	1	53		22.98	22.87			
20	PI2 BPSK	1	104		22.81	22.99			
20	PI2 BPSK	50	0		22.68	22.74	24.0	0.0	
20	PI2 BPSK	50	28		22.70	22.93			
20	PI2 BPSK	50	56		22.29	22.60			
20	PI2 BPSK	100	0		22.63	22.55	24.0	0.0	
20	QPSK	1	1		23.05	23.16			
20	QPSK	1	53		22.73	22.92			
20	QPSK	1	104		23.00	22.90	23.0	1.0	
20	QPSK	50	0		21.95	22.18			
20	QPSK	50	28		23.01	23.03			
20	QPSK	50	56		21.92	21.97	23.0	1.0	
20	QPSK	100	0		21.97	22.15			
20	16QAM	1	1		21.64	21.71			
20	64QAM	1	1		20.14	20.33	19.5	4.5	
20	256QAM	1	1		18.55	18.64			
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	23.06	23.06	22.88	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665	680.5	695			
10	QPSK	1	1	22.84	23.00	22.93	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.90	23.13	23.05	24.0	0.0	



n38 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	519998			
Frequency (MHz)				2580.02	2595	2599.98			
40	P12 BPSK	1	1	22.81	22.99	22.73			
40	P12 BPSK	1	53	22.72	22.91	22.76	24.0	0.0	
40	P12 BPSK	1	104	22.69	22.90	22.78			
40	P12 BPSK	50	0	22.40	22.46	22.22	23.5	0.5	
40	P12 BPSK	50	28	22.89	22.93	22.92	24.0	0.0	
40	P12 BPSK	50	58	22.33	22.53	22.24	23.5	0.5	
40	P12 BPSK	100	0	22.49	22.44	22.37			
40	QPSK	1	1	22.51	23.09	22.97			
40	QPSK	1	53	22.93	22.87	22.98	24.0	0.0	
40	QPSK	1	104	22.83	23.00	22.91			
40	QPSK	50	0	21.93	21.98	21.78	23.0	1.0	
40	QPSK	50	28	22.83	22.94	22.83	24.0	0.0	
40	QPSK	50	58	21.80	21.86	21.72	23.0	1.0	
40	QPSK	100	0	21.91	21.92	21.78			
40	16QAM	1	1	21.51	21.63	21.51	23.0	1.0	
40	64QAM	1	1	19.84	19.98	19.86	21.5	2.5	
40	256QAM	1	1	19.08	19.24	19.14	19.5	4.5	
Channel				517002	518000	520000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.81	23.00	22.80	24.0	0.0	
Channel				516504	518000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	22.69	22.93	22.79	24.0	0.0	
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.92	23.02	22.77	24.0	0.0	
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.80	23.01	22.86	24.0	0.0	
Channel				515004	518000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	22.92	22.96	22.94	24.0	0.0	

n41 PC3 Ant1 Default									
BW [MHz]	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	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	P12 BPSK	1	1	22.90	22.99	22.87			
100	P12 BPSK	1	137	22.83	22.88	22.85	24.0	0.0	
100	P12 BPSK	1	271	22.87	22.95	22.95			
100	P12 BPSK	135	0	22.73	22.86	22.77	24.0	0.0	
100	P12 BPSK	135	69	22.80	22.96	22.81	24.0	0.0	
100	P12 BPSK	135	138	22.73	22.80	22.80	24.0	0.0	
100	P12 BPSK	270	0	22.84	22.85	22.86			
100	QPSK	1	1	22.98	23.00	22.98			
100	QPSK	1	137	22.94	22.96	22.92	24.0	0.0	
100	QPSK	1	271	22.79	22.92	22.86			
100	QPSK	135	0	22.79	22.86	22.75	24.0	0.0	
100	QPSK	135	69	22.87	22.95	22.86	24.0	0.0	
100	QPSK	135	138	22.84	22.82	22.78	24.0	0.0	
100	QPSK	270	0	22.74	22.91	22.74			
100	16QAM	1	1	22.77	22.83	22.70	24.0	0.0	
100	64QAM	1	1	22.66	22.69	22.71	24.0	0.0	
100	256QAM	1	1	21.64	21.84	21.71	22.5	1.5	
Channel				508200	518598	520598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.84	22.94	22.78	24.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2642.99			
80	QPSK	1	1	22.91	22.98	22.81	24.0	0.0	
Channel				506202	518598	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.90	22.96	22.74	24.0	0.0	
Channel				505200	518598	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	22.83	22.91	22.78	24.0	0.0	
Channel				504204	518598	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.95	22.98	22.75	24.0	0.0	
Channel				503202	518598	524000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.90	22.87	22.73	24.0	0.0	
Channel				502200	518598	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2714.98			
30	QPSK	1	1	22.92	22.98	22.77	24.0	0.0	
Channel				501204	518598	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.87	22.89	22.75	24.0	0.0	
Channel				500700	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.92	22.93	22.79	24.0	0.0	
Channel				500202	518598	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.94	22.97	22.83	24.0	0.0	

n41 PC2 Ant1 Default									
BW [MHz]	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	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	P12 BPSK	1	1	25.96	25.98	25.89			
100	P12 BPSK	1	137	25.89	25.95	25.93	27.0	0.0	
100	P12 BPSK	1	271	25.77	25.86	25.84			
100	P12 BPSK	135	0	25.43	25.60	25.36	26.5	0.5	
100	P12 BPSK	135	69	25.91	26.02	25.84	27.0	0.0	
100	P12 BPSK	135	138	25.35	25.55	25.37	26.5	0.5	
100	P12 BPSK	270	0	25.42	25.53	25.47			
100	QPSK	1	1	26.04	26.06	26.00			
100	QPSK	1	137	25.92	26.05	25.86	27.0	0.0	
100	QPSK	1	271	25.84	25.94	25.82			
100	QPSK	135	0	25.07	25.22	25.05	26.0	1.0	
100	QPSK	135	69	25.85	26.00	25.92	27.0	0.0	
100	QPSK	135	138	25.09	25.14	25.07	26.0	1.0	
100	QPSK	270	0	25.10	25.23	25.15			
100	16QAM	1	1	24.67	24.77	24.66	26.0	1.0	
100	64QAM	1	1	23.27	23.31	23.25	24.5	2.5	
100	256QAM	1	1	21.76	21.92	21.90	22.5	4.5	
Channel				508200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	26.00	25.96	25.89	27.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2642.99			
80	QPSK	1	1	25.95	26.01	25.89	27.0	0.0	
Channel				506202	518598	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.93	25.98	25.96	27.0	0.0	
Channel				505200	518598	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	25.98	26.03	25.94	27.0	0.0	
Channel				504204	518598	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.92	26.00	25.90	27.0	0.0	
Channel				503202	518598	523000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.98	25.97	25.90	27.0	0.0	
Channel				502200	518598	523998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.91	25.98	25.95	27.0	0.0	
Channel				501204	518598	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.90	26.00	25.87	27.0	0.0	
Channel				500700	518598	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	25.93	25.90	25.84	27.0	0.0	
Channel				500202	518598	523100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	25.92	25.93	25.88	27.0	0.0	



n41 PC3 Ant2 Default									
BW [MHz]	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	529090			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.32	22.40	22.37			
100	PI2 BPSK	1	137	22.22	22.32	22.28			
100	PI2 BPSK	1	271	22.15	22.32	22.14	24.0	0.0	
100	PI2 BPSK	135	0	22.24	22.31	22.21	24.0	0.0	
100	PI2 BPSK	135	69	22.24	22.29	22.20	24.0	0.0	
100	PI2 BPSK	135	138	22.17	22.31	22.12	24.0	0.0	
100	PI2 BPSK	270	0	22.13	22.33	22.25			
100	QPSK	1	1	22.37	22.40	22.42			
100	QPSK	1	137	22.27	22.29	22.30	24.0	0.0	
100	QPSK	1	271	22.12	22.18	22.03			
100	QPSK	135	0	22.18	22.27	22.24	24.0	0.0	
100	QPSK	135	69	22.30	22.42	22.28	24.0	0.0	
100	QPSK	135	138	22.18	22.24	22.12	24.0	0.0	
100	QPSK	270	0	22.26	22.25	22.20			
100	16QAM	1	1	22.08	22.23	22.12	24.0	0.0	
100	64QAM	1	1	22.15	22.19	22.08	24.0	0.0	
100	256QAM	1	1	21.22	21.38	21.22	22.5	1.5	
Channel				530200	518598	529090	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.33	22.32	22.35	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	QPSK	1	1	22.28	22.30	22.29	24.0	0.0	
Channel				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.29	22.38	22.38	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	22.26	22.38	22.37	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	22.29	22.34	22.39	24.0	0.0	
Channel				530202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.31	22.34	22.34	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.29	22.30	22.36	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	22.23	22.38	22.33	24.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2684.48			
15	QPSK	1	1	22.31	22.34	22.29	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	22.32	22.39	22.29	24.0	0.0	

n41 PC2 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505200	518598	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.34	25.49	25.41			
100	PI2 BPSK	1	137	25.33	25.37	25.39			
100	PI2 BPSK	1	271	25.23	25.36	25.27	27.0	0.0	
100	PI2 BPSK	135	0	25.08	25.10	25.09	26.5	0.5	
100	PI2 BPSK	135	69	25.39	25.42	25.21	27.0	0.0	
100	PI2 BPSK	135	138	25.02	25.03	25.01	26.5	0.5	
100	PI2 BPSK	270	0	25.10	25.13	24.94			
100	QPSK	1	1	25.43	25.53	25.46			
100	QPSK	1	137	25.35	25.47	25.47	27.0	0.0	
100	QPSK	1	271	25.36	25.42	25.36			
100	QPSK	135	0	24.54	24.64	24.58	26.0	1.0	
100	QPSK	135	69	25.45	25.50	25.39	27.0	0.0	
100	QPSK	135	138	24.54	24.59	24.40	26.0	1.0	
100	QPSK	270	0	24.55	24.65	24.67			
100	16QAM	1	1	24.26	24.38	24.31	26.0	1.0	
100	64QAM	1	1	22.75	22.81	22.82	24.5	2.5	
100	256QAM	1	1	21.29	21.35	21.36	22.5	4.5	
Channel				505200	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.30	25.49	25.42	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.37	25.40	25.39	27.0	0.0	
Channel				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.37	25.42	25.40	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	25.35	25.40	25.36	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.32	25.38	25.43	27.0	0.0	
Channel				530202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.29	25.47	25.32	27.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.36	25.43	25.37	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.35	25.42	25.32	27.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2684.48			
15	QPSK	1	1	25.37	25.40	25.36	27.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	25.35	25.43	25.42	27.0	0.0	

n48 Part96 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				640000	641666	643332			
Frequency (MHz)				3600	3624.99	3649.98			
100	PI2 BPSK	1	1	23.36	23.48	23.44			
100	PI2 BPSK	1	137	23.31	23.45	23.38	24.0	0.0	
100	PI2 BPSK	1	271	23.28	23.41	23.37			
100	PI2 BPSK	135	0	23.11	23.23	23.09	23.5	0.5	
100	PI2 BPSK	135	69	23.34	23.44	23.33	24.0	0.0	
100	PI2 BPSK	135	138	23.06	23.11	23.05	23.5	0.5	
100	PI2 BPSK	270	0	23.06	23.19	23.05			
100	QPSK	1	1	23.43	23.53	23.48			
100	QPSK	1	137	23.38	23.46	23.35	24.0	0.0	
100	QPSK	1	271	23.34	23.40	23.29			
100	QPSK	135	0	22.74	22.88	22.85	23.0	1.0	
100	QPSK	135	69	23.37	23.48	23.42	24.0	0.0	
100	QPSK	135	138	22.75	22.82	22.77	23.0	1.0	
100	QPSK	270	0	22.83	22.87	22.78			
100	16QAM	1	1	21.83	21.88	21.81	23.0	1.0	
100	64QAM	1	1	20.45	20.57	20.43	21.5	2.5	
100	256QAM	1	1	19.07	19.19	19.06	19.5	4.5	
Channel				638668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99			
90	QPSK	1	1	23.29	23.45	23.41	24.0	0.0	
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3590.01	3624.99	3660			
80	QPSK	1	1	23.32	23.44	23.41	24.0	0.0	
Channel				638668	641666	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3580.02	3624.99	3666.99			
60	QPSK	1	1	23.33	23.39	23.34	24.0	0.0	
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3575.01	3624.99	3675			
50	QPSK	1	1	23.34	23.41	23.33	24.0	0.0	
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3570	3624.99	3679.98			
40	QPSK	1	1	23.35	23.42	23.43	24.0	0.0	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	23.31	23.41	23.37	24.0	0.0	
Channel				637334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3680			
20	QPSK	1	1	23.33	23.49	23.42	24.0	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	23.33	23.48	23.39	24.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	23.31	23.49	23.34	24.0	0.0	



Part270 n77 PC3 Ant2 Default									
BW [MHz]	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	65000	65000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	22.77	22.83	22.71	24.0	0.0	
100	PI2 BPSK	1	137	22.63	22.77	22.63			
100	PI2 BPSK	1	271	22.53	22.63	22.52			
100	PI2 BPSK	135	0	22.65	22.78	22.85	24.0	0.0	
100	PI2 BPSK	135	69	22.72	22.84	22.77	24.0	0.0	
100	PI2 BPSK	135	138	22.65	22.79	22.73	24.0	0.0	
100	PI2 BPSK	270	0	22.89	22.82	22.72	24.0	0.0	
100	QPSK	1	1	22.81	22.85	22.74			
100	QPSK	1	137	22.69	22.83	22.80			
100	QPSK	1	271	22.53	22.66	22.61	24.0	0.0	
100	QPSK	135	0	22.65	22.78	22.75			
100	QPSK	135	69	22.73	22.81	22.78			
100	QPSK	135	138	22.63	22.73	22.68	24.0	0.0	
100	QPSK	270	0	22.68	22.75	22.83	24.0	0.0	
100	16QAM	1	1	22.29	22.43	22.31	24.0	0.0	
100	64QAM	1	1	22.35	22.48	22.37	24.0	0.0	
100	256QAM	1	1	21.45	21.51	21.47	22.5	1.5	
Channel				64900	65000	66234	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.68	22.71	22.67	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dBm)	
80	QPSK	1	1	22.71	22.71	22.63	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	(dBm)	(dBm)	
70	QPSK	1	1	22.75	22.80	22.70	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.02	3840	3950.01	(dBm)	(dBm)	
60	QPSK	1	1	22.69	22.77	22.59	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dBm)	
50	QPSK	1	1	22.74	22.80	22.61	24.0	0.0	
Channel				641000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	(dBm)	(dBm)	
40	QPSK	1	1	22.71	22.78	22.63	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dBm)	
30	QPSK	1	1	22.76	22.72	22.70	24.0	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5	(dBm)	(dBm)	
25	QPSK	1	1	22.78	22.72	22.84	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dBm)	
20	QPSK	1	1	22.78	22.73	22.68	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dBm)	
15	QPSK	1	1	22.67	22.75	22.70	24.0	0.0	
Channel				641000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	(dBm)	(dBm)	
10	QPSK	1	1	22.70	22.77	22.71	24.0	0.0	

Part270 n77 PC2 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	25.73	25.87	25.84	27.0	0.0	
100	PI2 BPSK	1	137	25.73	25.62	25.74			
100	PI2 BPSK	1	271	25.72	25.78	25.76			
100	PI2 BPSK	135	0	25.52	25.59	25.46	26.5	0.5	
100	PI2 BPSK	135	69	25.75	25.82	25.74	27.0	0.0	
100	PI2 BPSK	135	138	25.44	25.56	25.42	26.5	0.5	
100	PI2 BPSK	270	0	25.56	25.62	25.49	27.0	0.0	
100	QPSK	1	1	25.80	25.91	25.86			
100	QPSK	1	137	25.72	25.84	25.80			
100	QPSK	1	271	25.83	25.86	25.72	26.0	1.0	
100	QPSK	135	0	24.94	25.05	24.93			
100	QPSK	135	69	25.82	25.88	25.74			
100	QPSK	135	138	24.88	24.96	24.86	26.0	1.0	
100	QPSK	270	0	24.87	24.97	24.85	26.0	1.0	
100	16QAM	1	1	24.65	24.68	24.57	26.0	1.0	
100	64QAM	1	1	23.06	23.19	23.08	24.5	2.5	
100	256QAM	1	1	21.52	21.61	21.55	22.5	4.5	
Channel				648668	650000	662324	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	25.74	25.79	25.72	27.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	25.72	25.70	25.79	27.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	25.76	25.80	25.78	27.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	25.66	25.86	25.82	27.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	25.66	25.77	25.61	27.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	25.66	25.85	25.73	27.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	25.67	25.83	25.73	27.0	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5	(dBm)	(dB)	
25	QPSK	1	1	25.69	25.81	25.73	27.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	25.71	25.84	25.74	27.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	25.68	25.88	25.80	27.0	0.0	
Channel				648000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	25.74	25.86	25.78	27.0	0.0	

Part27Q n77 PC3 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334	633334			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		22.83		24.0	0.0	
100	PI2 BPSK	1	137		22.78				
100	PI2 BPSK	1	271		22.71				
100	PI2 BPSK	135	0		22.75		24.0	0.0	
100	PI2 BPSK	135	69		22.80		24.0	0.0	
100	PI2 BPSK	135	138		22.65		24.0	0.0	
100	PI2 BPSK	270	0		22.77		24.0	0.0	
100	QPSK	1	1		22.67				
100	QPSK	1	137		22.78				
100	QPSK	1	271		22.65		24.0	0.0	
100	QPSK	135	0		22.79				
100	QPSK	135	69		22.82				
100	QPSK	135	138		22.66		24.0	0.0	
100	QPSK	270	0		22.77		24.0	0.0	
100	16QAM	1	1		22.64		24.0	0.0	
100	64QAM	1	1		22.48		24.0	0.0	
100	256QAM	1	1		21.55		22.5	1.5	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.69	22.74	22.71	24.0	0.0	
Channel				633668	633334	634000			
Frequency (MHz)				3495.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	22.68	22.76	22.75	24.0	0.0	
Channel				633234	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	22.75	22.79	22.77	24.0	0.0	
Channel				633000	633334	634668			
Frequency (MHz)				3485	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	22.68	22.80	22.74	24.0	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	22.75	22.81	22.69	24.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3474.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.74	22.72	22.67	24.0	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3435	3500.01	3533.02	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.76	22.75	22.69	24.0	0.0	
Channel				630834	633334	635834			
Frequency (MHz)				3462.51	3500.01	3537.51	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.72	22.84	22.77	24.0	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.69	22.73	22.72	24.0	0.0	
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.69	22.81	22.70	24.0	0.0	
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.73	22.83	22.70	24.0	0.0	



Part27Q n77 PC2 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	P12 BPSK	1	1		25.87				
100	P12 BPSK	1	137		25.83		27.0	0.0	
100	P12 BPSK	1	271		25.76				
100	P12 BPSK	135	0		25.36		26.5	0.5	
100	P12 BPSK	135	69		25.82		27.0	0.0	
100	P12 BPSK	135	138		25.26		26.5	0.5	
100	P12 BPSK	270	0		25.31				
100	QPSK	1	1		25.92				
100	QPSK	1	137		25.88		27.0	0.0	
100	QPSK	1	271		25.81				
100	QPSK	135	0		24.83		26.0	1.0	
100	QPSK	135	69		25.87		27.0	0.0	
100	QPSK	135	138		24.73		26.0	1.0	
100	QPSK	270	0		25.81				
100	16QAM	1	1		24.45		26.0	1.0	
100	64QAM	1	1		22.95		24.5	2.5	
100	256QAM	1	1		21.52		22.5	4.5	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	25.79	25.84	25.78	27.0	0.0	
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	25.31	25.84	25.75	27.0	0.0	
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	25.77	25.81	25.75	27.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	25.79	25.80	25.85	27.0	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	25.73	25.88	25.78	27.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	25.83	25.87	25.76	27.0	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	25.12	25.83	25.76	27.0	0.0	
Channel				630668	633334	635934			
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	25.80	25.81	25.75	27.0	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	25.74	25.86	25.85	27.0	0.0	
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	25.78	25.78	25.74	27.0	0.0	
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	25.81	25.77	25.81	27.0	0.0	

Part27Q n78 PC3 Ant2 Default									
BW [MHz]	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)				3750					
100	P12 BPSK	1	1		23.08				
100	P12 BPSK	1	137		23.02		24.0	0.0	
100	P12 BPSK	1	271		22.93				
100	P12 BPSK	135	0		22.48		23.5	0.5	
100	P12 BPSK	135	69		23.05		24.0	0.0	
100	P12 BPSK	135	138		22.52		23.5	0.5	
100	P12 BPSK	270	0		22.56				
100	QPSK	1	1		23.10				
100	QPSK	1	137		23.04		24.0	0.0	
100	QPSK	1	271		23.00				
100	QPSK	135	0		21.95		23.0	1.0	
100	QPSK	135	69		23.07		24.0	0.0	
100	QPSK	135	138		22.00		23.0	1.0	
100	QPSK	270	0		22.55				
100	16QAM	1	1		21.78		23.0	1.0	
100	64QAM	1	1		20.55		21.5	2.5	
100	256QAM	1	1		18.98		19.5	4.5	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.92	23.01	22.95	24.0	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.98	22.90	23.02	24.0	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.93	22.98	23.03	24.0	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	22.93	23.09	23.04	24.0	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.96	23.05	23.01	24.0	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.99	22.98	23.01	24.0	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.94	23.08	22.94	24.0	0.0	
Channel				647500	650000	652500			
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	22.96	23.00	23.01	24.0	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.01	23.04	23.02	24.0	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	23.01	22.97	22.98	24.0	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.99	23.07	22.99	24.0	0.0	

Part27Q n78 PC3 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				633334					
Frequency (MHz)				3500.01					
100	P12 BPSK	1	1		23.06				
100	P12 BPSK	1	137		23.01		24.0	0.0	
100	P12 BPSK	1	271		23.07				
100	P12 BPSK	135	0		22.43		23.5	0.5	
100	P12 BPSK	135	69		23.03		24.0	0.0	
100	P12 BPSK	135	138		22.39		23.5	0.5	
100	P12 BPSK	270	0		22.42				
100	QPSK	1	1		23.10				
100	QPSK	1	137		23.04		24.0	0.0	
100	QPSK	1	271		22.96				
100	QPSK	135	0		21.90		23.0	1.0	
100	QPSK	135	69		23.05	21.66	24.0	0.0	
100	QPSK	135	138		21.91		23.0	1.0	
100	QPSK	270	0		21.86				
100	16QAM	1	1		21.88		23.0	1.0	
100	64QAM	1	1		20.61		21.5	2.5	
100	256QAM	1	1		18.93		19.5	4.5	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02		Tune-up limit (dbm) MPR (db)	
90	QPSK	1	1	22.94	22.99	22.90	24.0	0.0	
Channel				630668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510		Tune-up limit (dbm) MPR (db)	
80	QPSK	1	1	22.97	23.03	22.91	24.0	0.0	
Channel				633334	633334	634334			
Frequency (MHz)				3480.01	3500.01	3515.01		Tune-up limit (dbm) MPR (db)	
70	QPSK	1	1	22.97	23.07	22.97	24.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3485	3500.01	3520.02		Tune-up limit (dbm) MPR (db)	
60	QPSK	1	1	22.98	23.06	22.95	24.0	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525		Tune-up limit (dbm) MPR (db)	
50	QPSK	1	1	23.02	23.02	22.93	24.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01		Tune-up limit (dbm) MPR (db)	
40	QPSK	1	1	22.98	23.02	22.90	24.0	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02		Tune-up limit (dbm) MPR (db)	
30	QPSK	1	1	22.97	23.05	22.91	24.0	0.0	
Channel				630634	633334	635834			
Frequency (MHz)				3462.51	3500.01	3537.51		Tune-up limit (dbm) MPR (db)	
25	QPSK	1	1	22.94	22.97	22.94	24.0	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540		Tune-up limit (dbm) MPR (db)	
20	QPSK	1	1	23.01	22.98	22.87	24.0	0.0	
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52		Tune-up limit (dbm) MPR (db)	
15	QPSK	1	1	23.00	23.03	22.97	24.0	0.0	
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01		Tune-up limit (dbm) MPR (db)	
10	QPSK	1	1	22.96	23.06	22.95	24.0	0.0	

n48 Part96 Ant4 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				640000	641696	643392			
Frequency (MHz)				3600	3634.80	3669.60			
100	PV2 BPSK	1	1	23.13	23.25	23.13			
100	PV2 BPSK	1	137	26.08	26.20	23.16	24.0	0.0	
100	PV2 BPSK	1	271	23.04	23.13	23.09			
100	PV2 BPSK	135	0	22.59	22.73	22.61	23.5	0.5	
100	PV2 BPSK	135	69	23.11	23.23	23.05	24.0	0.0	
100	PV2 BPSK	135	138	22.45	22.57	22.49	23.5	0.5	
100	PV2 BPSK	270	0	22.59	22.69	22.59			
100	QPSK	1	1	23.24	23.33	23.27			
100	QPSK	1	137	23.20	23.29	23.25	24.0	0.0	
100	QPSK	1	271	23.17	23.26	23.18			
100	QPSK	135	0	22.12	22.22	22.11	23.0	1.0	
100	QPSK	135	69	23.28	23.29	23.25	24.0	0.0	
100	QPSK	135	138	22.08	22.21	22.24	23.0	1.0	
100	QPSK	270	0	22.28	22.36	22.29			
100	16QAM	1	1	19.84	22.06	22.00	23.0	1.0	
100	64QAM	1	1	20.17	22.20	20.09	21.5	2.5	
100	256QAM	1	1	18.76	18.84	18.79	19.5	4.5	
Channel				638688	641696	643686	Turn-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3565.02	3624.99	3654.99	23.0	0.0	
Channel				638334	641696	643690 <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th>	Turn-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3539.01	3624.99	3660	24.0	0.0	
Channel				638688	641696	644666	Turn-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3565.02	3624.99	3669.99	24.0	0.0	
Channel				638334	641696	645000 <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th>	Turn-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3575.01	3624.99	3675	24.0	0.0	
Channel				638000	641696	645332 <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th>	Turn-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3570	3624.99	3674.98	24.0	0.0	
Channel				637688	641696	645666	Turn-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3565.02	3624.99	3684.99	24.0	0.0	
Channel				637314	641696	646000 <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th>	Turn-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3565.02	3624.99	3690	24.0	0.0	
Channel				637123	641696	646332 <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th>	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3557.52	3624.99	3692.49	24.0	0.0	
Channel				636710	641696	646666	Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3538	3625	3694.98	24.0	0.0	

Part270 n77 PC3 Ant4 Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dbm)	MPR (db)
Channel								
				68000	66600	66000		
				3750	3640	3630		
100	PV2 BPSK	1	1	22.95	23.06	23.02		
100	PV2 BPSK	1	137	22.95	23.02	22.94	24.0	0.0
100	QPSK	1	271	22.88	22.95	22.88		
100	PV2 BPSK	1	137	22.77	22.85	22.85	24.0	0.0
100	PV2 BPSK	135	69	22.87	23.01	22.92	24.0	0.0
100	PV2 BPSK	135	138	22.78	22.87	22.81		
100	PV2 BPSK	270	0	22.91	22.97	22.85	24.0	0.0
100	QPSK	1	1	23.05	23.12	23.01		
100	QPSK	1	137	22.97	23.06	22.99	24.0	0.0
100	QPSK	1	271	22.88	23.01	22.85		
100	QPSK	135	0	22.92	22.96	22.89	24.0	0.0
100	QPSK	135	69	23.01	23.08	23.05	24.0	0.0
100	QPSK	135	138	22.85	22.96	22.92	24.0	0.0
100	QPSK	270	0	22.86	22.91	22.81	24.0	0.0
100	16QAM	1	1	22.75	22.78	22.65	24.0	0.0
100	64QAM	1	1	22.69	22.73	22.66	24.0	0.0
100	256QAM	1	1	21.63	21.73	21.66	22.5	1.5
Channel								
				646668	656000	662334	Time-up limit (dbm)	MPR (db)
				3745.02	3840	3955.01		
90	QPSK	1	1	22.90	23.06	22.88	24.0	0.0
Channel								
				648334	666000	666698	Time-up limit (dbm)	MPR (db)
				3740.01	3840	3940.02		
80	QPSK	1	1	22.92	22.99	22.89	24.0	0.0
Channel								
				648000	650000	653300	Time-up limit (dbm)	MPR (db)
				3735	3840	3945		
70	QPSK	1	1	22.66	23.01	22.96	24.0	0.0
Channel								
				646668	656000	663334	Time-up limit (dbm)	MPR (db)
				3740.02	3840	3955.01		
60	QPSK	1	1	22.89	23.06	22.93	24.0	0.0
Channel								
				648334	656000	663698	Time-up limit (dbm)	MPR (db)
				3726.01	3840	3955.02		
50	QPSK	1	1	22.97	23.07	22.91	24.0	0.0
Channel								
				648000	650000	656000	Time-up limit (dbm)	MPR (db)
				3720	3840	3940		
40	QPSK	1	1	22.92	22.97	22.91	24.0	0.0
Channel								
				647668	666000	664334	Time-up limit (dbm)	MPR (db)
				3715.02	3340	3955.01		
30	QPSK	1	1	22.96	22.96	22.94	24.0	0.0
Channel								
				647600	650000	654000	Time-up limit (dbm)	MPR (db)
				3712.5	3840	3967.5		
25	QPSK	1	1	22.92	23.01	22.88	24.0	0.0
Channel								
				647334	656000	664668	Time-up limit (dbm)	MPR (db)
				3710.01	3840	3955.01		
20	QPSK	1	1	22.93	22.95	22.91	24.0	0.0
Channel								
				647168	666000	664834	Time-up limit (dbm)	MPR (db)
				3707.52	3840	3972.51		
15	QPSK	1	1	22.95	23.08	22.90	24.0	0.0
Channel								
				647000	650000	656000	Time-up limit (dbm)	MPR (db)
				3705	3840	3955		
10	QPSK	1	1	22.91	23.08	22.96	24.0	0.0

Part270 n77 PC2 Ant4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel									
				656000	656000	662000			
				3750	3840	3930			
100	P2 BPSSK	1	1	25.90	25.99	25.95			
100	P2 BPSSK	1	137	25.87	25.91	25.83	27.0	0.0	
100	P2 BPSSK	1	271	25.75	25.87	25.83			
100	P2 BPSSK	136	0	25.41	25.47	25.43	26.5	0.5	
100	P2 BPSSK	136	69	25.90	25.96	25.89	27.0	0.0	
100	P2 BPSSK	136	138	25.46	25.49	25.37	26.5	0.5	
100	P2 BPSSK	270	0	25.44	25.53	25.41			
100	QPSK	1	1	26.00	26.07	26.04			
100	QPSK	1	137	25.98	25.98	25.98	27.0	0.0	
100	QPSK	1	271	25.79	25.88	25.80			
100	QPSK	136	0	24.96	25.01	24.95	26.0	1.0	
100	QPSK	136	69	25.93	26.04	25.99	27.0	0.0	
100	QPSK	136	138	24.86	24.93	24.80	26.0	1.0	
100	QPSK	270	0	24.89	24.94	24.87			
100	16QAM	1	1	25.55	25.64	25.63	26.0	1.0	
100	64QAM	1	1	23.10	23.17	23.03	24.5	2.5	
100	256QAM	1	1	21.63	21.74	21.67	22.5	4.5	
Channel									
				666000	666000	662634	Turn-up limit (dBm)	MPR (dB)	
				3745.02	3840	3935.01			
90	QPSK	1	1	25.89	25.93	25.97	27.0	0.0	
Channel									
				668334	666000	662668	Turn-up limit (dBm)	MPR (dB)	
				3740.01	3840	3940.02			
80	QPSK	1	1	25.92	25.97	25.93	27.0	0.0	
Channel									
				669000	666000	663300	Turn-up limit (dBm)	MPR (dB)	
				3735	3840	3945			
70	QPSK	1	1	25.94	26.01	25.97	27.0	0.0	
Channel									
				664668	656000	663334	Turn-up limit (dBm)	MPR (dB)	
				3726.02	3840	3950.01			
60	QPSK	1	1	25.98	26.02	25.93	27.0	0.0	
Channel									
				664334	656000	663668	Turn-up limit (dBm)	MPR (dB)	
				3726.01	3840	3955.02			
50	QPSK	1	1	25.89	25.99	26.00	27.0	0.0	
Channel									
				660000	650000	660000	Turn-up limit (dBm)	MPR (dB)	
				3720	3840	3960			
40	QPSK	1	1	25.97	25.97	25.95	27.0	0.0	
Channel									
				667168	666000	664834	Turn-up limit (dBm)	MPR (dB)	
				3716.02	3840	3965.01			
30	QPSK	1	1	25.98	26.04	25.97	27.0	0.0	
Channel									
				664500	650000	664500	Turn-up limit (dBm)	MPR (dB)	
				3712.5	3840	3967.5			
25	QPSK	1	1	25.94	25.93	25.94	27.0	0.0	
Channel									
				667334	656000	664668	Turn-up limit (dBm)	MPR (dB)	
				3710.01	3840	3970.02			
20	QPSK	1	1	25.96	25.95	25.90	27.0	0.0	
Channel									
				667168	656000	664834	Turn-up limit (dBm)	MPR (dB)	
				3707.52	3840	3972.51			
15	QPSK	1	1	25.90	25.94	25.94	27.0	0.0	
Channel									
				667000	650000	665000	Turn-up limit (dBm)	MPR (dB)	
				3705	3840	3975			
10	QPSK	1	1	25.86	25.95	25.94	27.0	0.0	

Part27Q n77 PC3 Ant4 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334		633334			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		23.12		24.0	0.0	
100	PI2 BPSK	1	137		23.04				
100	PI2 BPSK	1	271		22.96				
100	PI2 BPSK	135	0		22.94		24.0	0.0	
100	PI2 BPSK	135	69		23.09		24.0	0.0	
100	PI2 BPSK	135	138		22.91		24.0	0.0	
100	PI2 BPSK	270	0		22.97				
100	QPSK	1	1		23.17		24.0	0.0	
100	QPSK	1	137		23.11				
100	QPSK	1	271		23.05				
100	QPSK	135	0		22.92		24.0	0.0	
100	QPSK	135	69		23.11		24.0	0.0	
100	QPSK	135	138		22.92		24.0	0.0	
100	QPSK	270	0		22.98				
100	16QAM	1	1		22.41		24.0	0.0	
100	64QAM	1	1		22.46		24.0	0.0	
100	256QAM	1	1		21.53		22.5	1.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		22.98	23.09	23.05	24.0	0.0
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		23.02	23.02	22.99	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		22.97	23.08	23.05	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		23.06	23.13	23.03	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		23.02	23.07	22.94	24.0	0.0
Channel				631224	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		23.04	23.10	23.02	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3537.02			
30	QPSK	1	1		23.03	23.09	22.97	24.0	0.0
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		23.01	23.13	22.97	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		23.03	23.08	23.03	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		23.03	23.13	22.97	24.0	0.0
Channel				630224	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		23.07	23.10	22.97	24.0	0.0

Part27Q n77 PC2 Ant4 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334		633334			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		26.18		27.0		0.0
100	PI/2 BPSK	1	137		26.13				
100	PI/2 BPSK	1	271		26.07				
100	PI/2 BPSK	135	0		26.05				
100	PI/2 BPSK	135	69		26.19		27.0		
100	PI/2 BPSK	135	138		25.50		26.5		0.5
100	PI/2 BPSK	270	0		25.57				
100	QPSK	1	1		26.22		27.0		0.0
100	QPSK	1	137		26.17				
100	QPSK	1	271		26.04				
100	QPSK	135	0		25.08				
100	QPSK	135	69		26.15		26.0		1.0
100	QPSK	135	138		26.12		27.0		0.0
100	QPSK	270	0		25.18		26.0		1.0
100	16QAM	1	1		25.05		26.0		1.0
100	64QAM	1	1		22.96		24.5		2.5
100	256QAM	1	1		21.54		22.5		4.5
Channel				632000	633334	633668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3465	3500.01	3505.02			
90	QPSK	1	1		26.09	26.12	25.98	27.0	0.0
Channel				632968	633334	634000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3460.02	3500.01	3510			
80	QPSK	1	1		26.13	26.19	26.04	27.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3465.01	3500.01	3515.01			
70	QPSK	1	1		26.09	26.13	26.07	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3460	3500.01	3520.02			
60	QPSK	1	1		26.07	26.12	26.09	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		26.11	26.13	26.05	27.0	0.0
Channel				631224	633334	635334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		26.04	26.09	26.07	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3465	3500.01	3537.02			
30	QPSK	1	1		26.04	26.10	26.06	27.0	0.0
Channel				630834	633334	635834	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		26.15	26.13	26.02	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		26.05	26.09	26.10	27.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		26.06	26.11	26.08	27.0	0.0
Channel				630224	633334	636334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		26.08	26.16	26.04	27.0	0.0

Part270 n78 PC3 Ant4 Default

BW [MHz]	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)				3750				
100	PI/2 BPSK	1	1		23.04		24.0	0.0
100	PI/2 BPSK	1	137		23.00			
100	PI/2 BPSK	1	271		23.03			
100	PI/2 BPSK	135	0		22.88			
100	PI/2 BPSK	135	69		23.00		24.0	0.0
100	PI/2 BPSK	135	138		22.60		23.5	0.5
100	PI/2 BPSK	270	0		22.62		24.0	0.0
100	QPSK	1	1		23.06			
100	QPSK	1	137		23.03			
100	QPSK	1	271		23.02			
100	QPSK	135	0		22.15		23.0	1.0
100	QPSK	135	69		23.02		24.0	0.0
100	QPSK	135	138		22.06		23.0	1.0
100	QPSK	270	0		22.12		23.0	1.0
100	16QAM	1	1		21.97			
100	64QAM	1	1		20.30			
100	256QAM	1	1		18.90			
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	22.94	23.00	22.89	24.0	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	22.90	22.89	22.87	24.0	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	22.89	22.98	22.86	24.0	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.03	(dBm)	(dB)
60	QPSK	1	1	22.94	22.97	22.86	24.0	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	22.90	22.98	22.84	24.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	22.94	23.00	22.91	24.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	22.95	22.99	22.84	24.0	0.0
Channel				647300	650000	652500	Tune-up limit	MPR
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)
25	QPSK	1	1	22.91	23.00	22.95	24.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	22.88	22.98	22.92	24.0	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1	22.91	23.01	22.90	24.0	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	22.90	22.96	22.84	24.0	0.0

Part27Q n78 PC3 Ant4 Default

BW [MHz]	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		23.06		24.0	0.0
100	PI/2 BPSK	1	137		23.00			
100	PI/2 BPSK	1	271		22.98			
100	PI/2 BPSK	135	0		22.53			
100	PI/2 BPSK	135	69		23.00		24.0	0.0
100	PI/2 BPSK	135	138		22.51		23.5	0.5
100	PI/2 BPSK	270	0		22.55		24.0	0.0
100	QPSK	1	1		23.12			
100	QPSK	1	137		23.06			
100	QPSK	1	271		23.01			
100	QPSK	135	0		22.03		23.0	1.0
100	QPSK	135	69		23.08		24.0	0.0
100	QPSK	135	138		22.02		23.0	1.0
100	QPSK	270	0		22.05		23.0	1.0
100	16QAM	1	1		21.37			
100	64QAM	1	1		19.91			
100	256QAM	1	1		18.50			
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	22.93	23.01	22.94	24.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	22.92	23.02	22.89	24.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	23.01	23.02	22.90	24.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	23.02	23.04	22.93	24.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	22.94	22.97	22.90	24.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	23.03	23.02	22.96	24.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	22.94	23.04	22.99	24.0	0.0
Channel				630634	633334	635834	Tune-up limit	MPR
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)
25	QPSK	1	1	22.95	22.95	22.90	24.0	0.0
Channel				630568	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.69	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	22.96	22.97	22.98	24.0	0.0
Channel				630500	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	22.92	23.03	22.90	24.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	23.02	23.04	22.86	24.0	0.0



n48 Part96 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				646000	641666	643332			
Frequency (MHz)				3600	3624.99	3649.98			
100	PV2 BPSK	1	1	23.17	23.28	23.17	24.0	0.0	
100	PV2 BPSK	1	137	23.15	23.22	23.17			
100	PV2 BPSK	1	271	23.09	23.16	23.09			
100	PV2 BPSK	135	0	22.58	22.73	22.60	23.5	0.5	
100	PV2 BPSK	135	69	23.10	23.23	23.09	24.0	0.0	
100	PV2 BPSK	135	138	22.64	22.78	22.73	23.5	0.5	
100	PV2 BPSK	270	0	22.73	22.80	22.65	24.0	0.0	
100	QPSK	1	1	23.24	23.34	23.26			
100	QPSK	1	137	23.20	23.31	23.23			
100	QPSK	1	271	23.13	23.22	23.08	23.0	1.0	
100	QPSK	135	0	22.23	22.28	22.21			
100	QPSK	135	69	23.19	23.29	23.26			
100	QPSK	135	138	22.15	22.22	22.13	23.0	1.0	
100	QPSK	270	0	22.16	22.30	22.19	23.0	1.0	
100	16QAM	1	1	21.85	21.93	21.79			
100	64QAM	1	1	20.39	20.44	20.34	21.5	2.5	
100	256QAM	1	1	18.91	19.04	18.89	19.5	4.5	
Channel				636999	641666	643666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99			
90	QPSK	1	1	23.18	23.25	23.22	24.0	0.0	
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3590.01	3624.99	3650			
80	QPSK	1	1	23.11	23.21	23.12	24.0	0.0	
Channel				638999	641666	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3589.02	3624.99	3669.99			
60	QPSK	1	1	23.12	23.20	23.23	24.0	0.0	
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3625.01	3624.99	3675			
50	QPSK	1	1	23.07	23.20	23.18	24.0	0.0	
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3670	3624.99	3679.98			
40	QPSK	1	1	23.09	23.24	23.21	24.0	0.0	
Channel				637666	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	23.12	23.19	23.16	24.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3520.01	3624.99	3630			
20	QPSK	1	1	22.08	22.22	22.11	24.0	0.0	
Channel				637168	641666	646168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	22.06	22.16	22.05	24.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3655	3624.99	3694.98			
10	QPSK	1	1	22.10	22.22	22.09	24.0	0.0	

Part270 n77 PC3 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	22.77	22.87	22.82	24.0	0.0	
100	PV2 BPSK	1	137	22.68	22.82	22.78			
100	PV2 BPSK	1	271	22.65	22.76	22.71			
100	PV2 BPSK	135	0	22.70	22.75	22.63	24.0	0.0	
100	PV2 BPSK	135	69	22.78	22.88	22.78	24.0	0.0	
100	PV2 BPSK	135	138	22.72	22.77	22.66	24.0	0.0	
100	PV2 BPSK	270	0	22.68	22.82	22.77	24.0	0.0	
100	QPSK	1	1	22.81	22.91	22.85			
100	QPSK	1	137	22.73	22.83	22.72			
100	QPSK	1	271	22.64	22.77	22.68	24.0	0.0	
100	QPSK	135	0	22.65	22.80	22.65	24.0	0.0	
100	QPSK	135	69	22.82	22.88	22.78			
100	QPSK	135	138	22.62	22.76	22.64			
100	QPSK	270	0	22.74	22.83	22.72	24.0	0.0	
100	16QAM	1	1	22.44	22.53	22.41			
100	64QAM	1	1	22.37	22.48	22.36	24.0	0.0	
100	256QAM	1	1	21.40	21.48	21.43	22.5	1.5	
Channel				646668	650000	662668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.44	22.47	22.42	24.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.44	22.49	22.45	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.39	22.57	22.51	24.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.42	22.53	22.48	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.40	22.51	22.49	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.42	22.49	22.51	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	22.38	22.56	22.44	24.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.41	22.50	22.49	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.45	22.48	22.49	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.38	22.53	22.49	24.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.44	22.48	22.43	24.0	0.0	

Part270 n77 PC2 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	25.49	25.64	25.53	27.0	0.0	
100	PV2 BPSK	1	137	25.50	25.59	25.46			
100	PV2 BPSK	1	271	25.41	25.52	25.45			
100	PV2 BPSK	135	0	25.01	25.13	25.05	26.5	0.5	
100	PV2 BPSK	135	69	25.47	25.62	25.55	27.0	0.0	
100	PV2 BPSK	135	138	25.00	25.06	24.92	26.5	0.5	
100	PV2 BPSK	270	0	25.06	25.11	24.99	27.0	0.0	
100	QPSK	1	1	25.83	25.89	25.77			
100	QPSK	1	137	25.58	25.68	25.50			
100	QPSK	1	271	25.42	25.56	25.42	26.0	1.0	
100	QPSK	135	0	24.46	24.61	24.55			
100	QPSK	135	69	25.61	25.73	25.67			
100	QPSK	135	138	24.45	24.56	24.52	26.0	1.0	
100	QPSK	270	0	24.49	24.54	24.46	26.0	1.0	
100	16QAM	1	1	24.23	24.24	24.21			
100	64QAM	1	1	22.82	22.72	22.62			
100	256QAM	1	1	21.34	21.44	21.30	22.5	4.5	
Channel				648668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.52	3840	3935.01			
90	QPSK	1	1	25.59	25.64	25.46	27.0	0.0	
Channel				648334	650000	662688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.42	25.58	25.51	27.0	0.0	
Channel				647900	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	25.57	25.56	25.46	27.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3732.02	3840	3950.01			
60	QPSK	1	1	25.53	25.60	25.43	27.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	25.56	25.56	25.46	27.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.49	25.61	25.54	27.0	0.0	
Channel				647688	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	25.52	25.61	25.49	27.0	0.0	
Channel				647300	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	25.55	25.62	25.49	27.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.40	25.59	25.46	27.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	25.50	25.64	25.47	27.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.58	25.65	25.43	27.0	0.0	

Part27Q n77 PC3 Ant5 Default

BW [MHz]	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		23.20		24.0	0.0
100	PI2 BPSK	1	137		23.15			
100	PI2 BPSK	1	271		22.98			
100	PI2 BPSK	135	0		23.13			
100	PI2 BPSK	135	69		23.16		24.0	0.0
100	PI2 BPSK	135	138		22.98		24.0	0.0
100	PI2 BPSK	270	0		23.14			
100	QPSK	1	1		23.20			
100	QPSK	1	137		23.15			
100	QPSK	1	271		22.96		24.0	0.0
100	QPSK	135	0		23.10		24.0	0.0
100	QPSK	135	69		23.17		24.0	0.0
100	QPSK	135	138		23.01		24.0	0.0
100	QPSK	270	0		23.13		24.0	0.0
100	16QAM	1	1		22.98			
100	64QAM	1	1		23.03			
100	256QAM	1	1		22.07			
Channel				633090	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	23.08	23.11	23.04	24.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	23.10	23.19	23.06	24.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	23.06	23.17	23.10	24.0	0.0
Channel				632090	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	23.13	23.12	23.02	24.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	23.15	23.10	23.04	24.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	23.08	23.15	23.07	24.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	23.09	23.17	23.07	24.0	0.0
Channel				630634	633334	635834	Tune-up limit	MPR
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)
25	QPSK	1	1	23.06	23.08	23.00	24.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	23.14	23.17	23.03	24.0	0.0
Channel				630590	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	23.09	23.15	23.01	24.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	23.09	23.14	23.08	24.0	0.0

Part27Q n77 PC2 Ant5 Default

BW [MHz]	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		26.25		27.0	0.0
100	PI/2 BPSK	1	137		26.19			
100	PI/2 BPSK	1	271		26.11			
100	PI/2 BPSK	135	0		25.78			
100	PI/2 BPSK	135	69		26.20		27.0	0.5
100	PI/2 BPSK	135	138		25.63		26.5	0.5
100	PI/2 BPSK	270	0		25.69		27.0	0.0
100	QPSK	1	1		26.21		27.0	0.0
100	QPSK	1	137		26.26			
100	QPSK	1	271		26.21			
100	QPSK	135	0		25.22			
100	QPSK	135	69		26.27		27.0	1.0
100	QPSK	135	138		25.28		26.0	1.0
100	QPSK	270	0		25.33		26.0	1.0
100	16QAM	1	1		25.09			
100	64QAM	1	1		23.52			
100	256QAM	1	1		22.26			
Channel				633090	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	26.15	26.26	26.14	27.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	26.17	26.21	26.12	27.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	26.21	26.25	26.14	27.0	0.0
Channel				632090	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	26.14	26.17	26.08	27.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	26.16	26.21	26.14	27.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	26.19	26.27	26.10	27.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	26.25	26.24	26.12	27.0	0.0
Channel				630634	633334	635834	Tune-up limit	MPR
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)
25	QPSK	1	1	26.24	26.18	26.19	27.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	26.20	26.25	26.15	27.0	0.0
Channel				630590	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	26.21	26.22	26.19	27.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	26.14	26.28	26.17	27.0	0.0

Part270 n78 PC3 Ant5 Default

BW [MHz]	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)				3750				
100	PI/2 BPSK	1	1		22.84		24.0	0.0
100	PI/2 BPSK	1	137		22.76			
100	PI/2 BPSK	1	271		22.85			
100	PI/2 BPSK	135	0		22.43			
100	PI/2 BPSK	135	69		22.80		24.0	0.0
100	PI/2 BPSK	135	138		22.37		23.5	0.5
100	PI/2 BPSK	270	0		22.44		24.0	0.0
100	QPSK	1	1		22.86			
100	QPSK	1	137		22.81			
100	QPSK	1	271		22.74			
100	QPSK	135	0		22.04		23.0	1.0
100	QPSK	135	69		22.62		24.0	0.0
100	QPSK	135	138		21.96		23.0	1.0
100	QPSK	270	0		22.03		23.0	1.0
100	16QAM	1	1		21.69			
100	64QAM	1	1		20.22			
100	256QAM	1	1		18.62			
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.55	22.64	22.49	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.50	22.61	22.53	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.52	22.63	22.47	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.03		
60	QPSK	1	1	22.57	22.56	22.51	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.53	22.65	22.56	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.57	22.60	22.47	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.50	22.60	22.53	24.0	0.0
Channel				647334	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
25	QPSK	1	1	22.52	22.56	22.48	24.0	0.0
Channel				647000	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705.01	3750	3795.02		
20	QPSK	1	1	22.54	22.64	22.49	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.49	22.55	22.48	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.57	22.62	22.51	24.0	0.0

Part27Q n78 PC3 Ant5 Default

BW [MHz]	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		23.27		24.0	0.0
100	PI/2 BPSK	1	137		23.19			
100	PI/2 BPSK	1	271		23.23			
100	PI/2 BPSK	135	0		22.72			
100	PI/2 BPSK	135	69		23.24		24.0	0.0
100	PI/2 BPSK	135	138		22.66		23.5	0.5
100	PI/2 BPSK	270	0		22.70		24.0	0.0
100	QPSK	1	1		23.28			
100	QPSK	1	137		23.28			
100	QPSK	1	271		23.26			
100	QPSK	135	0		22.51		23.0	1.0
100	QPSK	135	69		23.28		24.0	0.0
100	QPSK	135	138		22.92		23.0	1.0
100	QPSK	270	0		22.39		23.0	1.0
100	16QAM	1	1		22.27			
100	64QAM	1	1		20.82			
100	256QAM	1	1		18.96			
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.25	23.25	22.83	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.14	23.29	22.89	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.18	23.26	22.92	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.14	23.18	22.87	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.17	23.30	22.94	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.17	23.28	22.83	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.16	23.19	22.89	24.0	0.0
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	23.19	23.23	22.93	24.0	0.0
Channel				630568	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.69	3500.01	3540		
20	QPSK	1	1	23.24	23.19	22.91	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	23.19	23.27	22.84	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	23.23	23.29	22.87	24.0	0.0

n41 PC3 Ant6 Default									
BW [MHz]	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	518986	528000	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.66	22.70	22.52	24.0	0.0	
100	PI2 BPSK	1	137	22.61	22.64	22.48			
100	PI2 BPSK	1	271	22.39	22.52	22.43			
100	PI2 BPSK	135	0	22.49	22.62	22.49			
100	PI2 BPSK	135	69	22.56	22.65	22.54	24.0	0.0	
100	PI2 BPSK	135	138	22.56	22.58	22.44	24.0	0.0	
100	PI2 BPSK	270	0	22.45	22.63	22.52	24.0	0.0	
100	QPSK	1	1	22.71	22.76	22.68			
100	QPSK	1	137	22.56	22.81	22.54			
100	QPSK	1	271	22.26	22.47	22.31			
100	QPSK	135	0	22.43	22.58	22.50	24.0	0.0	
100	QPSK	135	69	22.69	22.71	22.57	24.0	0.0	
100	QPSK	135	138	22.41	22.49	22.36	24.0	0.0	
100	QPSK	270	0	22.45	22.52	22.40	24.0	0.0	
100	16QAM	1	1	22.41	22.55	22.42	24.0	0.0	
100	64QAM	1	1	22.39	22.47	22.29	24.0	0.0	
100	256QAM	1	1	21.64	21.62	21.54	22.5	1.5	
Channel				508200	518998	528998	Tune-up limit (dBm)		
Frequency (MHz)				2541	2592.99	2644.98	MPR (dB)		
90	QPSK	1	1	22.64	22.70	22.54	24.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)		
Frequency (MHz)				2536.02	2592.99	2649.99	MPR (dB)		
80	QPSK	1	1	22.67	22.65	22.63	24.0	0.0	
Channel				506202	518998	531000	Tune-up limit (dBm)		
Frequency (MHz)				2631.01	2592.99	2655	MPR (dB)		
70	QPSK	1	1	22.64	22.69	22.58	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)		
Frequency (MHz)				2524	2592.99	2659.98	MPR (dB)		
60	QPSK	1	1	22.64	22.63	22.56	24.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)		
Frequency (MHz)				2521.02	2592.99	2664.99	MPR (dB)		
50	QPSK	1	1	22.61	22.64	22.60	24.0	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)		
Frequency (MHz)				2516.01	2592.99	2670	MPR (dB)		
40	QPSK	1	1	22.64	22.68	22.57	24.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)		
Frequency (MHz)				2511	2592.99	2674.98	MPR (dB)		
30	QPSK	1	1	22.61	22.65	22.60	24.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)		
Frequency (MHz)				2506.02	2592.99	2679.99	MPR (dB)		
20	QPSK	1	1	22.57	22.68	22.63	24.0	0.0	
Channel				500700	518998	536498	Tune-up limit (dBm)		
Frequency (MHz)				2501.5	2592.99	2682.48	MPR (dB)		
15	QPSK	1	1	22.67	22.68	22.54	24.0	0.0	
Channel				500202	518998	537000	Tune-up limit (dBm)		
Frequency (MHz)				2501.01	2592.99	2685	MPR (dB)		
10	QPSK	1	1	22.66	22.72	22.54	24.0	0.0	

n41 PC2 Ant6 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50202	51898	52600			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.59	25.66	25.62	27.0	0.0	
100	PI2 BPSK	1	137	25.52	25.62	25.58			
100	PI2 BPSK	1	271	25.45	25.60	25.48			
100	PI2 BPSK	135	0	25.31	25.30	25.27			
100	PI2 BPSK	135	69	25.51	25.59	25.49	27.0	0.0	
100	PI2 BPSK	135	138	25.24	25.29	25.23	26.5	0.5	
100	PI2 BPSK	270	0	25.24	25.36	25.24	27.0	0.0	
100	QPSK	1	1	25.67	25.75	25.65			
100	QPSK	1	137	25.53	25.69	25.60			
100	QPSK	1	271	25.50	25.67	25.56			
100	QPSK	135	0	24.71	24.81	24.83	26.0	1.0	
100	QPSK	135	69	25.66	25.71	25.58	27.0	0.0	
100	QPSK	135	138	24.68	24.80	24.72	26.0	1.0	
100	QPSK	270	0	24.74	24.87	24.82	26.0	1.0	
100	16QAM	1	1	24.39	24.49	24.47	26.0	1.0	
100	64QAM	1	1	22.94	23.00	23.05	24.5	2.5	
100	256QAM	1	1	21.47	21.60	21.51	22.5	4.5	
Channel				50200	51898	52898	Tune-up limit (dBm)		
Frequency (MHz)				2541	2592.99	2644.98	MPR (dB)		
90	QPSK	1	1	25.62	25.67	25.59	27.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)		
Frequency (MHz)				2536.02	2592.99	2649.99	MPR (dB)		
80	QPSK	1	1	25.56	25.62	25.54	27.0	0.0	
Channel				506202	518998	531000	Tune-up limit (dBm)		
Frequency (MHz)				2631.01	2592.99	2655	MPR (dB)		
70	QPSK	1	1	25.64	25.68	25.54	27.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)		
Frequency (MHz)				2526	2592.99	2659.98	MPR (dB)		
60	QPSK	1	1	25.59	25.65	25.56	27.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)		
Frequency (MHz)				2521.02	2592.99	2664.99	MPR (dB)		
50	QPSK	1	1	25.54	25.61	25.56	27.0	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)		
Frequency (MHz)				2516.01	2592.99	2670	MPR (dB)		
40	QPSK	1	1	25.62	25.63	25.52	27.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)		
Frequency (MHz)				2511	2592.99	2674.98	MPR (dB)		
30	QPSK	1	1	25.57	25.70	25.60	27.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)		
Frequency (MHz)				2506.02	2592.99	2679.99	MPR (dB)		
20	QPSK	1	1	25.57	25.67	25.54	27.0	0.0	
Channel				500700	518998	536498	Tune-up limit (dBm)		
Frequency (MHz)				2501.5	2592.99	2682.48	MPR (dB)		
15	QPSK	1	1	25.61	25.69	25.63	27.0	0.0	
Channel				500202	518998	537000	Tune-up limit (dBm)		
Frequency (MHz)				2501.01	2592.99	2685	MPR (dB)		
10	QPSK	1	1	25.56	25.61	25.55	27.0	0.0	



n48 Part96 Ant7 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				646000	641666	643333					
Frequency (MHz)				3600	3624.99	3649.98					
100	PV2 BPSK	1	1	22.49	22.60	22.56	24.0	0.0			
100	PV2 BPSK	1	137	22.43	22.54	22.50					
100	PV2 BPSK	1	271	22.43	22.52	22.42					
100	PV2 BPSK	136	0	22.22	22.35	22.27					
100	PV2 BPSK	136	69	22.53	22.57	22.54	24.0	0.0			
100	PV2 BPSK	136	138	22.17	22.31	22.22	23.5	0.5			
100	PV2 BPSK	270	0	22.27	22.35	22.28	24.0	0.0			
100	QPSK	1	1	22.59	22.65	22.60					
100	QPSK	1	137	22.53	22.59	22.54					
100	QPSK	1	271	22.50	22.56	22.52					
100	QPSK	136	0	21.54	21.68	21.58	23.0	1.0			
100	QPSK	136	69	22.52	22.62	22.48	24.0	0.0			
100	QPSK	136	138	21.55	21.68	21.63	23.0	1.0			
100	QPSK	270	0	21.66	21.72	21.60	23.0	1.0			
100	16QAM	1	1	21.18	21.22	21.19					
100	64QAM	1	1	19.66	19.73	19.60					
100	256QAM	1	1	18.54	18.63	18.51					
Channel				636668	641666	643666	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3595.02	3624.99	3654.99					
90	QPSK	1	1	22.53	22.60	22.49	24.0	0.0			
Channel				639334	641666	644000	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3590.01	3624.99	3650					
80	QPSK	1	1	22.49	22.57	22.46	24.0	0.0			
Channel				639668	641666	644666	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3580.02	3624.99	3669.99					
60	QPSK	1	1	22.46	22.52	22.49	24.0	0.0			
Channel				638334	641666	645000	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3625.01	3624.99	3675					
50	QPSK	1	1	22.47	22.53	22.47	24.0	0.0			
Channel				638000	641666	645332	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3670	3624.99	3679.98					
40	QPSK	1	1	22.54	22.52	22.50	24.0	0.0			
Channel				637668	641666	645666	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3565.02	3624.99	3684.99					
30	QPSK	1	1	22.56	22.56	22.55	24.0	0.0			
Channel				637334	641666	646000	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3520.01	3624.99	3690					
20	QPSK	1	1	22.52	22.53	22.49	24.0	0.0			
Channel				637168	641666	646168	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3557.52	3624.99	3692.49					
15	QPSK	1	1	22.48	22.59	22.53	24.0	0.0			
Channel				637000	641666	646332	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3655	3624.99	3694.98					
10	QPSK	1	1	22.55	22.57	22.54	24.0	0.0			

Part270 n77 PC2&PC3 Ant7 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)			
Channel				650000	650000	650000					
Frequency (MHz)				3750	3840	3930					
100	PV2 BPSK	1	1	23.09	23.13	23.04	24.3	0.0			
100	PV2 BPSK	1	137	23.03	23.07	22.97					
100	PV2 BPSK	1	271	22.92	22.98	22.90					
100	PV2 BPSK	136	0	22.82	22.73	22.80					
100	PV2 BPSK	136	69	22.97	23.08	22.95	24.3	0.5			
100	PV2 BPSK	136	138	22.55	22.64	22.60	23.8	0.5			
100	PV2 BPSK	270	0	22.63	22.69	22.58	24.3	0.0			
100	QPSK	1	1	23.11	23.16	23.14					
100	QPSK	1	137	23.08	23.12	23.04					
100	QPSK	1	271	22.88	22.97	22.91					
100	QPSK	136	0	22.05	22.18	22.06	23.3	1.0			
100	QPSK	136	69	23.07	23.12	23.04	24.3	0.0			
100	QPSK	136	138	22.07	22.13	22.10	23.3	1.0			
100	QPSK	270	0	22.11	22.15	22.15	23.3	1.0			
100	16QAM	1	1	21.80	21.84	21.72					
100	64QAM	1	1	20.23	20.32	20.22					
100	256QAM	1	1	18.97	19.05	18.99					
Channel				646000	650000	652334	Tune-up limit (dbm)				
Frequency (MHz)				3745.02	3840	3935.01					
90	QPSK	1	1	22.99	23.06	23.06	24.3	0.0			
Channel				646334	650000	652668	Tune-up limit (dbm)				
Frequency (MHz)				3740.01	3840	3940.02					
80	QPSK	1	1	23.07	23.04	23.02	24.3	0.0			
Channel				646000	650000	653000	Tune-up limit (dbm)				
Frequency (MHz)				3735	3840	3945					
70	QPSK	1	1	22.96	23.09	22.99	24.3	0.0			
Channel				646668	650000	653334	Tune-up limit (dbm)				
Frequency (MHz)				3730.02	3840	3950.01					
60	QPSK	1	1	23.05	23.15	23.08	24.3	0.0			
Channel				646334	650000	653668	Tune-up limit (dbm)				
Frequency (MHz)				3725.01	3840	3955.02					
50	QPSK	1	1	23.04	23.08	23.06	24.3	0.0			
Channel				646000	650000	654000	Tune-up limit (dbm)				
Frequency (MHz)				3720	3840	3960					
40	QPSK	1	1	23.03	23.15	23.04	24.3	0.0			
Channel				647668	650000	654334	Tune-up limit (dbm)				
Frequency (MHz)				3715.02	3840	3965.01					
30	QPSK	1	1	22.99	23.09	23.04	24.3	0.0			
Channel				647500	650000	654500	Tune-up limit (dbm)				
Frequency (MHz)				3712.5	3840	3967.5					
25	QPSK	1	1	23.06	23.10	23.09	24.3	0.0			
Channel				647334	650000	654668	Tune-up limit (dbm)				
Frequency (MHz)				3710.01	3840	3970.02					
20	QPSK	1	1	23.01	23.12	23.06	24.3	0.0			
Channel				647168	650000	654834	Tune-up limit (dbm)				
Frequency (MHz)				3707.52	3840	3972.51					
15	QPSK	1	1	22.97	23.04	23.01	24.3	0.0			
Channel				647000	650000	655000	Tune-up limit (dbm)				
Frequency (MHz)				3705	3840	3975					
10	QPSK	1	1	23.04	23.15	22.99	24.3	0.0			

Part270Q n77 PC2&PC3 Ant7 Default											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				633334	633334	3500.01					
Frequency (MHz)											
100	PV2 BPSK	1	1		23.22		24.3	0.0			
100	PV2 BPSK	1	137		23.18						
100	PV2 BPSK	1	271		23.12						
100	PV2 BPSK	136	0		22.77						
100	PV2 BPSK	136	69		23.19		23.8	0.5			
100	PV2 BPSK	136	138		22.76		23.8	0.5			
100	PV2 BPSK	270	0		22.77		24.3	0.0			
100	QPSK	1	1		23.25						
100	QPSK	1	137		23.13						
100	QPSK	1	271		22.99						
100	QPSK	136	0		22.19		23.3	1.0			
100	QPSK	136	69		23.21		24.3	0.0			
100	QPSK	136	138		22.20		23.3	1.0			
100	QPSK	270	0		22.25		23.3	1.0			
100	16QAM	1	1		21.94						
100	64QAM	1	1		20.36						
100	256QAM	1	1		19.08						
Channel				633000	633334	633668	Tune-up limit (dBm)				
Frequency (MHz)				3495	3500.01	3505.02					
90	QPSK	1	1	23.16	23.20	23.06	24.3	0.0			
Channel				632668	633334	634000	Tune-up limit (dBm)				
Frequency (MHz)				3490.02	3500.01	3510					
80	QPSK	1	1	23.11	23.19	23.04	24.3	0.0			
Channel				632334	633334	634334	Tune-up limit (dBm)				
Frequency (MHz)				3485.01	3500.01	3515.01					
70	QPSK	1	1	23.14	23.13	23.11	24.3	0.0			
Channel				632000	633334	634668	Tune-up limit (dBm)				
Frequency (MHz)				3480	3500.01	3510.02					
60	QPSK	1	1	23.15	23.17	23.14	24.3	0.0			
Channel				631668	633334	635000	Tune-up limit (dBm)				
Frequency (MHz)				3475.02	3500.01	3525					
50	QPSK	1	1	23.10	23.17	23.14	24.3	0.0			
Channel				631334	633334	635334	Tune-up limit (dBm)				
Frequency (MHz)				3470.01	3500.01	3530.01					
40	QPSK	1	1	23.09	23.13	23.11	24.3	0.0			
Channel				631000	633334	635668	Tune-up limit (dBm)				
Frequency (MHz)				3465	3500.01	3535.02					
30	QPSK	1	1	23.08	23.12	23.03	24.3	0.0			
Channel				630668	633334	636000	Tune-up limit (dBm)				
Frequency (MHz)				3462.51	3500.01	3537.51					
25	QPSK	1	1	23.17	23.21	23.08	24.3	0.0			
Channel				630334	633334	636368	Tune-up limit (dBm)				
Frequency (MHz)				3460.02	3500.01	3540					
20	QPSK	1	1	23.15	23.19	23.09	24.3	0.0			
Channel				630000	633334	636668	Tune-up limit (dBm)				
Frequency (MHz)				3457.5	3500.01	3542.52					
15	QPSK	1	1	23.11	23.13	23.07	24.3	0.0			
Channel				630334	633334	637000	Tune-up limit (dBm)				
Frequency (MHz)				3455.01	3500.01	3545.01					
10	QPSK	1	1	23.14	23.18	23.12	24.3	0.0			

Part270 n78 PC3 Ant7 Default

BW [MHz]	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)				3750				
100	PI2 BPSK	1	1		22.33			
100	PI2 BPSK	1	137		22.27		24.0	0.0
100	PI2 BPSK	1	271		22.01			
100	PI2 BPSK	135	0		21.76		23.5	0.5
100	PI2 BPSK	135	69		22.27		24.0	0.0
100	PI2 BPSK	135	138		21.76		23.5	0.5
100	PI2 BPSK	270	0		21.76			
100	QPSK	1	1		22.37		24.0	0.0
100	QPSK	1	137		22.31			
100	QPSK	1	271		22.04			
100	QPSK	135	0		21.22		23.0	1.0
100	QPSK	135	69		22.31		24.0	0.0
100	QPSK	135	138		21.18		23.0	1.0
100	QPSK	270	0		21.22			
100	16QAM	1	1		21.09		23.0	1.0
100	64QAM	1	1		19.52		21.5	2.5
100	256QAM	1	1		18.32		19.5	4.5
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.25	22.22	22.18	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.25	22.30	22.25	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.30	22.27	22.22	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.21	22.24	22.20	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.19	22.26	22.21	24.0	0.0
Channel				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.23	22.28	22.22	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	22.21	22.27	22.23	24.0	0.0
Channel				647000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3767.5		
25	QPSK	1	1	22.21	22.30	22.15	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3760.02		
20	QPSK	1	1	22.19	22.32	22.17	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3762.51		
15	QPSK	1	1	22.23	22.26	22.20	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.20	22.22	22.14	24.0	0.0

Part27Q n78 PC3 Ant7 Default

BW [MHz]	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)				3500.01				
100	PI2 BPSK	1	1		22.88			
100	PI2 BPSK	1	137		22.69		24.0	0.0
100	PI2 BPSK	1	271		22.56			
100	PI2 BPSK	135	0		22.17		23.5	0.5
100	PI2 BPSK	135	69		22.75		24.0	0.0
100	PI2 BPSK	135	138		21.99		23.5	0.5
100	PI2 BPSK	270	0		22.02			
100	QPSK	1	1		22.90		24.0	0.0
100	QPSK	1	137		22.75			
100	QPSK	1	271		22.45			
100	QPSK	135	0		21.48		23.0	1.0
100	QPSK	135	69		22.58		24.0	0.0
100	QPSK	135	138		21.76		23.0	1.0
100	QPSK	270	0		21.80			
100	16QAM	1	1		21.66		23.0	1.0
100	64QAM	1	1		19.96		21.5	2.5
100	256QAM	1	1		18.44		19.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.56	22.79	22.58	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.59	22.74	22.59	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.62	22.74	22.58	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.68	22.65	22.55	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.78	22.75	22.57	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.71	22.72	22.69	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.62	22.75	22.73	24.0	0.0
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	22.75	22.74	22.58	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.58	22.68	22.57	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	22.63	22.75	22.56	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	22.63	22.62	22.76	24.0	0.0



Reduced Power Mode for EC12

n2 Ant0 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376000	378000			
Frequency (MHz)				1170	1190	1210			
40	PV2 BPSK	1	1	23.19	23.22	23.15	24.0	0.0	
40	PV2 BPSK	1	108	23.11	23.10	23.13			
40	PV2 BPSK	1	214	22.96	23.17	23.11			
40	PV2 BPSK	108	0	22.39	22.58	22.39	23.5	0.5	
40	PV2 BPSK	108	54	22.93	23.04	23.15	24.0	0.0	
40	PV2 BPSK	108	108	22.51	22.49	22.43	23.5	0.5	
40	PV2 BPSK	216	0	22.50	22.71	22.44			
40	QPSK	1	1	23.05	23.26	23.13	24.0	0.0	
40	QPSK	1	108	22.93	23.03	22.85			
40	QPSK	1	214	22.93	23.06	22.77			
40	QPSK	108	0	21.93	22.04	22.16	23.0	1.0	
40	QPSK	108	54	23.04	23.25	23.16	24.0	0.0	
40	QPSK	108	108	22.01	22.05	22.05	23.0	1.0	
40	QPSK	216	0	22.26	22.33	22.15			
40	16QAM	1	1	21.79	21.87	21.83	23.0	1.0	
40	64QAM	1	1	20.27	20.34	20.22	21.5	2.5	
40	256QAM	1	1	18.81	18.94	18.88	19.5	4.5	
Channel				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1895			
30	QPSK	1	1	22.98	23.19	23.10	24.0	0.0	
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	22.97	23.21	23.11	24.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	22.86	23.20	23.09	24.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.87	23.12	23.05	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.93	23.14	23.07	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.89	23.10	23.11	24.0	0.0	

n5 Ant0 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PV2 BPSK	1	1	22.88	23.01	22.84	24.0	0.0	
20	PV2 BPSK	1	53	22.69	22.73	22.73			
20	PV2 BPSK	1	104	22.64	22.66	22.61			
20	PV2 BPSK	50	0	22.36	22.47	22.45	23.5	0.5	
20	PV2 BPSK	50	28	22.78	22.81	22.75	24.0	0.0	
20	PV2 BPSK	50	56	22.25	22.28	22.15	23.5	0.5	
20	PV2 BPSK	100	0	22.27	22.44	22.33			
20	QPSK	1	1	22.90	23.03	22.85	24.0	0.0	
20	QPSK	1	53	22.58	22.71	22.66			
20	QPSK	1	104	22.63	22.74	22.67			
20	QPSK	50	0	21.90	21.90	21.90	23.0	1.0	
20	QPSK	50	28	22.82	22.94	22.88	24.0	0.0	
20	QPSK	50	56	21.70	21.77	21.65	23.0	1.0	
20	QPSK	100	0	21.87	21.92	21.86			
20	16QAM	1	1	21.62	21.69	21.69	23.0	1.0	
20	64QAM	1	1	20.20	20.25	20.13	21.5	2.5	
20	256QAM	1	1	18.74	18.81	18.68	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.85	22.91	22.79	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.75	22.94	22.79	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	22.81	22.95	22.73	24.0	0.0	

n7 Ant0 Default									
BW (MHz)	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	507000	509000			
Frequency (MHz)				2325	2335	2345			
50	PV2 BPSK	1	1	22.73	22.79	22.65	24.0	0.0	
50	PV2 BPSK	1	135	22.67	22.86	22.82			
50	PV2 BPSK	1	268	22.59	22.84	22.85			
50	PV2 BPSK	135	0	22.22	22.37	22.25	23.5	0.5	
50	PV2 BPSK	135	68	22.77	22.79	22.77	24.0	0.0	
50	PV2 BPSK	135	135	22.14	22.18	22.05	23.5	0.5	
50	PV2 BPSK	270	0	22.06	22.21	22.10			
50	QPSK	1	1	22.93	22.98	22.77	24.0	0.0	
50	QPSK	1	135	22.89	22.76	22.76			
50	QPSK	1	268	22.52	22.70	22.56			
50	QPSK	135	0	22.05	22.20	22.11	23.0	1.0	
50	QPSK	135	68	22.88	22.90	22.84	24.0	0.0	
50	QPSK	135	135	21.75	21.91	21.83	23.0	1.0	
50	QPSK	270	0	21.79	21.92	21.88			
50	16QAM	1	1	21.35	21.41	21.43	23.0	1.0	
50	64QAM	1	1	19.88	20.06	19.92	21.5	2.5	
50	256QAM	1	1	18.68	18.72	18.68	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2320	2335	2350			
40	QPSK	1	1	22.85	22.92	22.83	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2315	2335	2355			
30	QPSK	1	1	22.85	22.86	22.65	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2312.5	2335	2357.5			
25	QPSK	1	1	22.88	22.85	22.72	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2310	2335	2360			
20	QPSK	1	1	22.88	22.90	22.72	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2335	2362.5			
15	QPSK	1	1	22.87	22.84	22.74	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2305	2335	2365			
10	QPSK	1	1	22.79	22.88	22.73	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2302.5	2335	2367.5			
5	QPSK	1	1	22.80	22.91	22.64	24.0	0.0	



n12 Ant0 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141500	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.81	22.94	22.87	24.0	0.0
15	PI2 BPSK	1	40	22.95	22.98	22.77		
15	PI2 BPSK	1	77	22.69	22.75	22.72		
15	PI2 BPSK	36	0	22.37	22.45	22.32	23.5	0.5
15	PI2 BPSK	36	22	22.70	22.92	22.67	24.0	0.0
15	PI2 BPSK	36	43	21.99	22.05	21.94	23.5	0.5
15	PI2 BPSK	75	0	22.22	22.36	22.18		
15	QPSK	1	1	22.95	23.07	22.81	24.0	0.0
15	QPSK	1	40	22.72	22.97	22.84		
15	QPSK	1	77	22.71	22.83	22.88		
15	QPSK	36	0	21.82	22.07	21.68	23.0	1.0
15	QPSK	36	22	22.82	22.89	22.64	24.0	0.0
15	QPSK	36	43	21.69	21.65	21.52	23.0	1.0
15	QPSK	75	0	21.72	21.77	21.66		
15	16QAM	1	1	21.75	21.78	21.72	23.0	1.0
15	64QAM	1	1	20.08	20.20	20.25	21.5	2.5
15	256QAM	1	1	18.75	18.99	18.76	19.5	4.5
Channel				140800	141500	142200	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	QPSK	1	1	22.78	22.87	22.69	24.0	0.0
Channel				142300	141500	142100	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	QPSK	1	1	22.74	22.87	22.63	24.0	0.0

n14 Ant0 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158600				
Frequency (MHz)				723				
10	PI2 BPSK	1	1	23.12			24.0	0.0
10	PI2 BPSK	1	26		23.05			
10	PI2 BPSK	1	50		22.84			
10	PI2 BPSK	25	0		22.67		23.5	0.5
10	PI2 BPSK	25	14		23.01		24.0	0.0
10	PI2 BPSK	25	27		22.81		23.5	0.5
10	PI2 BPSK	50	0		22.65			
10	QPSK	1	1		23.33		24.0	0.0
10	QPSK	1	26		23.12			
10	QPSK	1	50		23.04			
10	QPSK	25	0		22.23		23.0	1.0
10	QPSK	25	14		23.29		24.0	0.0
10	QPSK	25	27		22.20		23.0	1.0
10	QPSK	50	0		22.28			
10	16QAM	1	1		21.88		23.0	1.0
10	64QAM	1	1		20.53		21.5	2.5
10	256QAM	1	1		19.10		19.5	4.5
Channel				158100	158600	159100	Tune-up limit	MPR
Frequency (MHz)				730.5	733	735.5	(dBm)	(dB)
5	QPSK	1	1	23.23	23.30	23.26	24.0	0.0

n25 Ant0 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374000	376500	379000		
Frequency (MHz)				1870	1882.5	1895		
40	PI2 BPSK	1	1	23.14	23.21	22.97	24.0	0.0
40	PI2 BPSK	1	108	23.07	23.17	23.01		
40	PI2 BPSK	1	214	22.83	23.13	22.80		
40	PI2 BPSK	108	0	22.42	22.49	22.54	23.5	0.5
40	PI2 BPSK	108	54	23.28	23.31	23.08	24.0	0.0
40	PI2 BPSK	108	108	22.55	22.56	22.48	23.5	0.5
40	PI2 BPSK	216	0	22.65	22.65	22.63		
40	QPSK	1	1	23.27	23.34	23.26	24.0	0.0
40	QPSK	1	108	23.10	23.16	23.22		
40	QPSK	1	214	22.95	23.22	23.11		
40	QPSK	108	0	21.84	22.18	21.95	23.0	1.0
40	QPSK	108	54	23.05	23.12	23.06	24.0	0.0
40	QPSK	108	108	22.62	22.91	22.91	23.0	1.0
40	QPSK	216	0	22.26	22.29	22.20		
40	16QAM	1	1	21.57	21.78	21.57	23.0	1.0
40	64QAM	1	1	20.15	20.40	20.24	21.5	2.5
40	256QAM	1	1	18.93	18.94	18.80	19.5	4.5
Channel				373000	376500	380000	Tune-up limit	MPR
Frequency (MHz)				1865	1882.5	1900	(dBm)	(dB)
30	QPSK	1	1	23.13	23.23	23.24	24.0	0.0
Channel				372500	376500	380500	Tune-up limit	MPR
Frequency (MHz)				1862.5	1882.5	1902.5	(dBm)	(dB)
25	QPSK	1	1	23.09	23.17	23.13	24.0	0.0
Channel				372000	376500	381000	Tune-up limit	MPR
Frequency (MHz)				1860	1882.5	1905	(dBm)	(dB)
20	QPSK	1	1	23.29	23.33	23.11	24.0	0.0
Channel				371500	376500	381500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1882.5	1907.5	(dBm)	(dB)
15	QPSK	1	1	23.08	23.12	23.23	24.0	0.0
Channel				371000	376500	382000	Tune-up limit	MPR
Frequency (MHz)				1855	1882.5	1910	(dBm)	(dB)
10	QPSK	1	1	23.08	23.13	23.20	24.0	0.0
Channel				370500	376500	382500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1882.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	23.17	23.22	23.21	24.0	0.0



n26 Ant0 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.99	23.09	23.04	24.0	0.0
20	PI2 BPSK	1	53	22.80	22.94	22.75		
20	PI2 BPSK	1	104	22.75	22.76	22.63		
20	PI2 BPSK	50	0	22.51	22.62	22.55	23.5	0.5
20	PI2 BPSK	50	28	22.53	22.66	22.56	24.0	0.0
20	PI2 BPSK	50	56	22.26	22.41	22.26	23.5	0.5
20	PI2 BPSK	100	0	22.38	22.49	22.35		
20	QPSK	1	1	23.07	23.16	23.05	24.0	0.0
20	QPSK	1	53	22.79	22.91	22.84		
20	QPSK	1	104	22.73	22.76	22.68		
20	QPSK	50	0	22.01	22.12	22.11	23.0	1.0
20	QPSK	50	28	22.95	23.00	22.82	24.0	0.0
20	QPSK	50	56	21.82	21.87	21.70	23.0	1.0
20	QPSK	100	0	21.91	21.94	21.86		
20	16QAM	1	1	21.78	21.86	21.80	23.0	1.0
20	64QAM	1	1	20.31	20.46	20.42	21.5	2.5
20	256QAM	1	1	19.05	19.02	19.00	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.99	23.02	22.94	24.0	0.0
Channel				163800	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.01	23.08	23.00	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.92	23.04	22.92	24.0	0.0

n30 Ant0 Default								
BW [MHz]	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	PI2 BPSK	1	1		23.30		24.0	0.0
10	PI2 BPSK	1	26		23.40			
10	PI2 BPSK	1	50		23.38			
10	PI2 BPSK	25	0		22.88		23.5	0.5
10	PI2 BPSK	25	14		23.36		24.0	0.0
10	PI2 BPSK	25	27		22.97		23.5	0.5
10	PI2 BPSK	50	0		22.89			
10	QPSK	1	1		23.49		24.0	0.0
10	QPSK	1	26		23.31			
10	QPSK	1	50		23.34			
10	QPSK	25	0		23.38		23.0	1.0
10	QPSK	25	14		23.42		24.0	0.0
10	QPSK	25	27		22.30		23.0	1.0
10	QPSK	50	0		22.38			
10	16QAM	1	1		21.88		23.0	1.0
10	64QAM	1	1		20.45		21.5	2.5
10	256QAM	1	1		19.21		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	23.32	23.41	23.13	24.0	0.0

n66 Ant0 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	23.07	23.19	23.03	24.0	0.0
40	PI2 BPSK	1	108	23.07	23.12	22.99		
40	PI2 BPSK	1	214	23.01	23.05	22.94		
40	PI2 BPSK	108	0	22.55	22.63	22.56	23.5	0.5
40	PI2 BPSK	108	54	23.03	23.08	22.96	24.0	0.0
40	PI2 BPSK	108	108	22.43	22.51	22.48	23.5	0.5
40	PI2 BPSK	216	0	22.44	22.52	22.43		
40	QPSK	1	1	23.15	23.24	23.20	24.0	0.0
40	QPSK	1	108	23.14	23.19	23.07		
40	QPSK	1	214	23.00	23.13	23.01		
40	QPSK	108	0	22.01	22.15	22.11	23.0	1.0
40	QPSK	108	54	23.12	23.18	23.15	24.0	0.0
40	QPSK	108	108	21.95	22.00	21.91	23.0	1.0
40	QPSK	216	0	22.06	22.13	22.10		
40	16QAM	1	1	21.72	21.82	21.77	23.0	1.0
40	64QAM	1	1	20.22	20.30	20.27	21.5	2.5
40	256QAM	1	1	18.89	18.82	18.78	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.00	23.10	23.17	24.0	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.09	23.12	23.11	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.08	23.19	23.10	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.04	23.12	23.17	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.02	23.19	23.14	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.00	23.19	23.07	24.0	0.0



n70 Ant0 Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				340500				
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	23.05			24.0	0.0
15	PI2 BPSK	1	40	22.98				
15	PI2 BPSK	1	77	23.18				
15	PI2 BPSK	36	0	22.64			23.5	0.5
15	PI2 BPSK	36	22	23.04			24.0	0.0
15	PI2 BPSK	36	43	22.54			23.5	0.5
15	PI2 BPSK	75	0	22.53				
15	QPSK	1	1	23.25				
15	QPSK	1	40	23.09			24.0	0.0
15	QPSK	1	77	22.95				
15	QPSK	36	0	22.12				
15	QPSK	36	22	23.22			24.0	0.0
15	QPSK	36	43	22.02			23.0	1.0
15	QPSK	75	0	22.19				
15	16QAM	1	1	21.95				
15	64QAM	1	1	20.35			21.5	2.5
15	256QAM	1	1	18.81			19.5	4.5
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	23.14	23.20	23.05	24.0	0.0
Channel				336500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	23.05	23.10	23.06	24.0	0.0

n71 Ant0 Default								
BW (MHz)	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	23.10	23.20	23.01	24.0	0.0
20	PI2 BPSK	1	53	22.95	23.19	23.16		
20	PI2 BPSK	1	104	22.84	22.99	22.95		
20	PI2 BPSK	50	0	22.79	22.86	22.66	23.5	0.5
20	PI2 BPSK	50	28	22.95	23.02	22.50	24.0	0.0
20	PI2 BPSK	50	56	22.62	22.78	22.65	23.5	0.5
20	PI2 BPSK	100	0	22.70	22.80	22.68		
20	QPSK	1	1	23.14	23.25	22.98		
20	QPSK	1	53	23.13	23.21	22.91	24.0	0.0
20	QPSK	1	104	23.08	23.00	23.05		
20	QPSK	50	0	22.19	22.25	22.19		
20	QPSK	50	28	22.99	23.21	22.92	24.0	0.0
20	QPSK	50	56	22.14	22.11	22.23	23.0	1.0
20	QPSK	100	0	22.12	22.17	22.15		
20	16QAM	1	1	21.67	21.95	21.77		
20	64QAM	1	1	20.31	20.36	20.44	21.5	2.5
20	256QAM	1	1	18.67	18.56	18.57	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.04	23.05	22.88	24.0	0.0
Channel				133600	136100	138500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				666	680.5	693		
10	QPSK	1	1	22.96	23.20	22.78	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				662.5	680.5	698.5		
5	QPSK	1	1	23.10	23.19	22.85	24.0	0.0



n38 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	516000	516998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	22.94	22.97	22.81			
40	PQ2 BPSK	1	53	22.76	22.87	22.81	24.0	0.0	
40	PQ2 BPSK	1	104	22.77	22.97	22.87			
40	PQ2 BPSK	50	0	22.38	22.37	22.47	23.5	0.5	
40	PQ2 BPSK	50	28	22.98	23.04	22.80	24.0	0.0	
40	PQ2 BPSK	50	58	22.46	22.52	22.40			
40	PQ2 BPSK	100	0	22.21	22.27	22.22	23.5	0.5	
40	QPSK	1	1	22.94	23.04	22.88			
40	QPSK	1	53	22.83	22.80	22.73	24.0	0.0	
40	QPSK	1	104	22.34	22.46	22.37			
40	QPSK	50	0	21.85	21.92	21.65	23.0	1.0	
40	QPSK	50	28	22.58	22.97	22.77	24.0	0.0	
40	QPSK	50	58	21.91	22.12	21.86	23.0	1.0	
40	QPSK	100	0	21.79	21.95	21.90			
40	16QAM	1	1	21.14	21.41	21.22	23.0	1.0	
40	64QAM	1	1	19.69	19.78	19.58	21.5	2.5	
40	256QAM	1	1	18.24	18.30	18.13	19.5	4.5	
Channel				517002	516000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.91	23.02	22.83	24.0	0.0	
Channel				516504	516000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	22.76	23.00	22.69	24.0	0.0	
Channel				516000	516000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.81	22.82	22.67	24.0	0.0	
Channel				515502	516000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2617.51	2595	2612.49			
15	QPSK	1	1	22.74	22.96	22.74	24.0	0.0	
Channel				515004	516000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2675.02	2595	2614.98			
10	QPSK	1	1	22.95	22.97	22.82	24.0	0.0	

n41 PC3 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.41	22.54	22.53			
100	PQ2 BPSK	1	137	22.64	22.59	22.47	24.0	0.0	
100	PQ2 BPSK	1	271	22.33	22.53	22.34			
100	PQ2 BPSK	135	0	22.43	22.53	22.54	24.0	0.0	
100	PQ2 BPSK	135	69	22.70	22.64	22.74	24.0	0.0	
100	PQ2 BPSK	135	138	22.68	22.58	22.79	24.0	0.0	
100	PQ2 BPSK	270	0	22.43	22.61	22.64			
100	QPSK	1	1	22.81	22.94	22.74			
100	QPSK	1	137	22.58	22.71	22.63	24.0	0.0	
100	QPSK	1	271	22.19	22.32	22.25			
100	QPSK	135	0	22.54	22.66	22.50	24.0	0.0	
100	QPSK	135	69	22.76	22.80	22.74	24.0	0.0	
100	QPSK	135	138	22.80	22.58	22.53	24.0	0.0	
100	QPSK	270	0	22.65	22.71	22.65			
100	16QAM	1	1	22.25	22.27	22.19	24.0	0.0	
100	64QAM	1	1	22.34	22.17	22.37	24.0	0.0	
100	256QAM	1	1	20.81	20.82	20.74	22.5	1.5	
Channel				505200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.72	22.78	22.68	24.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	22.73	22.90	22.60	24.0	0.0	
Channel				505002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.61	22.82	22.59	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	22.62	22.76	22.61	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	22.68	22.79	22.72	24.0	0.0	
Channel				505200	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.64	22.75	22.68	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.69	22.83	22.57	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.79	22.90	22.58	24.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.80	22.78	22.58	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	22.68	22.86	22.66	24.0	0.0	

n41 PC2 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	530000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	25.72	25.76	25.88			
100	PQ2 BPSK	1	137	25.69	25.79	25.61	27.0	0.0	
100	PQ2 BPSK	1	271	25.89	25.62	25.75			
100	PQ2 BPSK	135	0	24.98	25.27	25.09	26.5	0.5	
100	PQ2 BPSK	135	69	25.84	25.89	25.55	27.0	0.0	
100	PQ2 BPSK	135	138	25.17	25.20	25.20	26.5	0.5	
100	PQ2 BPSK	270	0	25.32	25.26	25.26			
100	QPSK	1	1	25.85	25.87	25.89			
100	QPSK	1	137	25.72	25.86	25.77	27.0	0.0	
100	QPSK	1	271	25.83	25.69	25.76			
100	QPSK	135	0	24.48	24.76	24.59	26.0	1.0	
100	QPSK	135	69	25.64	25.88	25.71	27.0	0.0	
100	QPSK	135	138	24.81	24.82	24.66	26.0	1.0	
100	QPSK	270	0	24.85	24.76	24.74			
100	16QAM	1	1	24.30	24.23	24.35	26.0	1.0	
100	64QAM	1	1	22.76	22.66	22.74	24.5	2.5	
100	256QAM	1	1	21.11	21.33	21.28	22.5	4.5	
Channel				505200	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.84	25.82	25.82	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.74	25.95	25.73	27.0	0.0	
Channel				505002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.72	25.87	25.81	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	25.87	25.82	25.76	27.0	0.0	



n38 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	518998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	23.01	22.97	22.81			
40	PQ2 BPSK	1	53	22.91	22.87	22.81	24.0	0.0	
40	PQ2 BPSK	1	104	22.82	22.97	22.87			
40	PQ2 BPSK	50	0	22.38	22.37	22.47	23.5	0.5	
40	PQ2 BPSK	50	28	22.98	23.04	22.80	24.0	0.0	
40	PQ2 BPSK	50	58	22.46	22.52	22.40			
40	PQ2 BPSK	100	0	22.21	22.27	22.22	23.5	0.5	
40	QPSK	1	1	23.01	23.04	22.88			
40	QPSK	1	53	22.98	22.80	22.73	24.0	0.0	
40	QPSK	1	104	22.49	22.46	22.37			
40	QPSK	50	0	21.85	21.92	21.65	23.0	1.0	
40	QPSK	50	28	22.71	22.97	22.77	24.0	0.0	
40	QPSK	50	58	21.91	22.12	21.86	23.0	1.0	
40	QPSK	100	0	21.79	21.95	21.90			
40	16QAM	1	1	21.14	21.41	21.22	23.0	1.0	
40	64QAM	1	1	19.69	19.78	19.58	21.5	2.5	
40	256QAM	1	1	18.24	18.30	18.13	19.5	4.5	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	23.00	23.02	22.83	24.0	0.0	
Channel				516504	518000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	22.91	23.00	22.69	24.0	0.0	
Channel				515000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.96	22.82	22.67	24.0	0.0	
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.89	22.96	22.74	24.0	0.0	
Channel				515004	518000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	23.01	22.97	22.82	24.0	0.0	

n41 Ant 0_ISED 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				510000	518598	520000			
Frequency (MHz)				2650	2592.99	2640			
100	PQ2 BPSK	1	1	22.24	22.54	22.53			
100	PQ2 BPSK	1	137	22.41	22.59	22.47	24.0	0.0	
100	PQ2 BPSK	1	271	22.32	22.53	22.34			
100	PQ2 BPSK	135	0	22.38	22.53	22.54	24.0	0.0	
100	PQ2 BPSK	135	69	22.38	22.64	22.74	24.0	0.0	
100	PQ2 BPSK	135	138	22.24	22.58	22.79	24.0	0.0	
100	PQ2 BPSK	270	0	22.34	22.61	22.64			
100	QPSK	1	1	22.88	22.94	22.74			
100	QPSK	1	137	22.42	22.71	22.63	24.0	0.0	
100	QPSK	1	271	22.10	22.32	22.25			
100	QPSK	135	0	22.42	22.66	22.50	24.0	0.0	
100	QPSK	135	69	22.50	22.80	22.74	24.0	0.0	
100	QPSK	135	138	22.37	22.58	22.53	24.0	0.0	
100	QPSK	270	0	22.37	22.71	22.65			
100	16QAM	1	1	22.11	22.27	22.19	24.0	0.0	
100	64QAM	1	1	22.09	22.17	22.37	24.0	0.0	
100	256QAM	1	1	20.61	20.82	20.74	22.5	1.5	
Channel				530004	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2545.02	2592.99	2644.98			
90	QPSK	1	1	22.35	22.78	22.68	24.0	0.0	
Channel				508002	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2540.01	2592.99	2640.99			
80	QPSK	1	1	22.31	22.90	22.60	24.0	0.0	
Channel				507000	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2635	2592.99	2655			
70	QPSK	1	1	22.20	22.82	22.59	24.0	0.0	
Channel				506004	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2630.02	2592.99	2659.99			
60	QPSK	1	1	22.38	22.76	22.61	24.0	0.0	
Channel				505002	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2625.01	2592.99	2664.99			
50	QPSK	1	1	22.32	22.79	22.72	24.0	0.0	
Channel				504000	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2620	2592.99	2670			
40	QPSK	1	1	22.26	22.75	22.68	24.0	0.0	
Channel				503004	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2615.02	2592.99	2674.98			
30	QPSK	1	1	22.32	22.83	22.57	24.0	0.0	
Channel				502002	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2610.01	2592.99	2679.99			
20	QPSK	1	1	22.20	22.90	22.58	24.0	0.0	
Channel				501504	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2607.52	2592.99	2682.48			
15	QPSK	1	1	22.20	22.78	22.58	24.0	0.0	
Channel				501000	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2605	2592.99	2685			
10	QPSK	1	1	22.16	22.86	22.66	24.0	0.0	

n41 Ant 0_ISED 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				510000	518598	520000			
Frequency (MHz)				2590	2592.99	2640			
100	PQ2 BPSK	1	1	25.56	25.76	25.88			
100	PQ2 BPSK	1	137	25.42	25.79	25.61	27.0	0.0	
100	PQ2 BPSK	1	271	25.45	25.62	25.75			
100	PQ2 BPSK	135	0	25.06	25.27	25.09	26.5	0.5	
100	PQ2 BPSK	135	69	25.53	25.89	25.55	27.0	0.0	
100	PQ2 BPSK	135	138	24.97	25.20	25.20	26.5	0.5	
100	PQ2 BPSK	270	0	24.99	25.26	25.26			
100	QPSK	1	1	25.80	25.87	25.99			
100	QPSK	1	137	25.88	25.86	25.77	27.0	0.0	
100	QPSK	1	271	25.37	25.69	25.76			
100	QPSK	135	0	24.40	24.76	24.59	26.0	1.0	
100	QPSK	135	69	25.61	25.88	25.71	27.0	0.0	
100	QPSK	135	138	24.84	24.82	24.86	26.0	1.0	
100	QPSK	270	0	24.55	24.75	24.74			
100	16QAM	1	1	24.11	24.23	24.35	26.0	1.0	
100	64QAM	1	1	24.19	22.66	22.74	24.5	2.5	
100	256QAM	1	1	21.10	21.33	21.28	22.5	4.5	
Channel				530004	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2545.02	2592.99	2644.98			
90	QPSK	1	1	25.57	25.82	25.82	27.0	0.0	
Channel				508002	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2540.01	2592.99	2640.99			
80	QPSK	1	1	25.48	25.95	25.73	27.0	0.0	
Channel				507000	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2635	2592.99	2655			
70	QPSK	1	1	25.51	25.87	25.81	27.0	0.0	
Channel				506004	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2630.02	2592.99	2659.99			
60	QPSK	1	1	25.45	25.82	25.76	27.0	0.0	



n2 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				374500	376500	376500	19.0	0.0
Frequency (MHz)				1670	1680	1690		
40	Pl2 BPSK	1	1	17.83	17.86	17.80		
40	Pl2 BPSK	1	108	17.68	17.82	17.78	19.0	0.0
40	Pl2 BPSK	1	214	17.60	17.76	17.61		
40	Pl2 BPSK	108	0	17.68	17.79	17.75		
40	Pl2 BPSK	108	54	17.75	17.83	17.78	19.0	0.0
40	Pl2 BPSK	108	108	17.64	17.74	17.62	19.0	0.0
40	Pl2 BPSK	216	0	17.70	17.80	17.76	19.0	0.0
40	QPSK	1	1	17.66	17.62	17.84		
40	QPSK	1	108	17.77	17.67	17.76		
40	QPSK	1	214	17.69	17.83	17.77	19.0	0.0
40	QPSK	108	0	17.73	17.79	17.69		
40	QPSK	108	54	17.73	17.66	17.72		
40	QPSK	108	108	17.63	17.74	17.60	19.0	0.0
40	QPSK	216	0	17.77	17.60	17.75	19.0	0.0
40	16QAM	1	1	17.66	17.76	17.73		
40	64QAM	1	1	17.57	17.72	17.65		
40	256QAM	1	1	17.62	17.67	17.55	19.0	0.0
Channel				372500	376000	376000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1695	1680	1695	19.0	0.0
30	QPSK	1	1	17.72	17.69	17.80	19.0	0.0
Channel				372500	376000	376500	Tune-up limit (dB)	MPR
Frequency (MHz)				1692.5	1690	1697.5	19.0	0.0
25	QPSK	1	1	17.75	17.72	17.83	19.0	0.0
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1680	1680	1690	19.0	0.0
20	QPSK	1	1	17.73	17.76	17.76	19.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1687.5	1680	1697.5	19.0	0.0
15	QPSK	1	1	17.85	17.78	17.75	19.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1685	1680	1695	19.0	0.0
10	QPSK	1	1	17.70	17.62	17.67	19.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1682.5	1680	1697.5	19.0	0.0
5	QPSK	1	1	17.75	17.77	17.70	19.0	0.0

n5 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				166900	167300	167800	23.0	0.0
Frequency (MHz)				834	836.5	839		
20	Pl2 BPSK	1	1	21.84	21.90	21.80		
20	Pl2 BPSK	1	53	21.70	21.82	21.71	23.0	0.0
20	Pl2 BPSK	1	104	21.67	21.77	21.66		
20	Pl2 BPSK	50	0	21.74	21.84	21.78		
20	Pl2 BPSK	50	28	21.73	21.82	21.74	23.0	0.0
20	Pl2 BPSK	50	56	21.60	21.74	21.67	23.0	0.0
20	Pl2 BPSK	100	0	21.65	21.79	21.68	23.0	0.0
20	QPSK	1	1	21.81	21.93	21.87		
20	QPSK	1	53	21.72	21.85	21.76		
20	QPSK	1	104	21.75	21.89	21.83	23.0	0.0
20	QPSK	50	0	21.73	21.79	21.68		
20	QPSK	50	28	21.82	21.89	21.80		
20	QPSK	50	56	21.58	21.80	21.64	23.0	0.0
20	QPSK	100	0	21.75	21.84	21.79	23.0	0.0
20	16QAM	1	1	21.75	21.79	21.72		
20	64QAM	1	1	20.18	20.38	20.29		
20	256QAM	1	1	18.85	18.56	18.69	19.5	3.5
Channel				168300	167500	168200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	19.0	0.0
15	QPSK	1	1	21.76	21.81	21.78	23.0	0.0
Channel				165800	167300	166800	Tune-up limit (dBm)	MPR
Frequency (MHz)				829	836.5	844	19.0	0.0
10	QPSK	1	1	21.71	21.89	21.81	23.0	0.0
Channel				165300	167300	166300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	19.0	0.0
5	QPSK	1	1	21.70	21.79	21.77	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				505500	507000	508000	16.0	0.0
Frequency (MHz)				2525	2535	2545		
50	Pl2 BPSK	1	1	15.27	15.32	15.22		
50	Pl2 BPSK	1	135	15.16	15.23	15.16	16.0	0.0
50	Pl2 BPSK	1	268	15.13	15.22	15.11		
50	Pl2 BPSK	135	0	15.08	15.15	15.10		
50	Pl2 BPSK	135	68	15.23	15.29	15.22	16.0	0.0
50	Pl2 BPSK	135	135	15.03	15.09	14.98	16.0	0.0
50	Pl2 BPSK	270	0	15.12	15.19	15.12	16.0	0.0
50	QPSK	1	1	15.32	15.38	15.24		
50	QPSK	1	135	15.25	15.29	15.14		
50	QPSK	1	268	15.16	15.21	15.13	16.0	0.0
50	QPSK	135	0	15.06	15.16	15.06		
50	QPSK	135	68	15.16	15.32	15.22		
50	QPSK	135	135	15.30	15.31	15.26	16.0	0.0
50	QPSK	270	0	15.24	15.30	15.25	16.0	0.0
50	16QAM	1	1	15.22	15.31	15.17		
50	64QAM	1	1	15.20	15.28	15.23		
50	256QAM	1	1	15.14	15.25	15.16	16.0	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550	16.0	0.0
40	QPSK	1	1	15.22	15.30	15.11	16.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2515	2535	2555	16.0	0.0
30	QPSK	1	1	15.22	15.24	15.13	16.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	16.0	0.0
25	QPSK	1	1	15.25	15.28	15.17	16.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	16.0	0.0
20	QPSK	1	1	15.21	15.29	15.18	16.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	16.0	0.0
15	QPSK	1	1	15.25	15.32	15.17	16.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	16.0	0.0
10	QPSK	1	1	15.27	15.30	15.19	16.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	16.0	0.0
5	QPSK	1	1	15.21	15.27	15.21	16.0	0.0



n12 Ant1 ECI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141500	141500	141500		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	21.00	21.00	20.94	22.0	0.0
15	PI2 BPSK	1	40	20.85	20.88	20.79		
15	PI2 BPSK	1	77	20.81	20.86	20.73	22.0	0.0
15	PI2 BPSK	36	0	20.82	20.97	20.90	22.0	0.0
15	PI2 BPSK	36	22	20.79	20.88	20.80	22.0	0.0
15	PI2 BPSK	36	43	20.73	20.90	20.78	22.0	0.0
15	PI2 BPSK	75	0	20.79	20.92	20.76	22.0	0.0
15	QPSK	1	1	20.84	21.06	20.97		
15	QPSK	1	40	20.87	20.95	20.90	22.0	0.0
15	QPSK	1	77	20.86	21.00	20.99	22.0	0.0
15	QPSK	36	0	20.86	20.91	20.73		
15	QPSK	36	22	20.95	20.99	20.87	22.0	0.0
15	QPSK	36	43	20.79	20.86	20.73	22.0	0.0
15	QPSK	75	0	20.80	20.91	20.82	22.0	0.0
15	16QAM	1	1	20.81	20.88	20.83		
15	64QAM	1	1	20.32	20.61	20.47	21.5	0.5
15	256QAM	1	1	18.85	18.84	18.80	19.5	2.5
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	20.82	20.92	20.87	22.0	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	20.81	21.02	20.92	22.0	0.0

n14 Ant1 ECI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158000	158000	158000		
Frequency (MHz)				793	793	793		
10	PI2 BPSK	1	1		22.01		23.0	0.0
10	PI2 BPSK	1	26		21.97			
10	PI2 BPSK	1	50		21.94		23.0	0.0
10	PI2 BPSK	25	0		21.94		23.0	0.0
10	PI2 BPSK	25	14		21.92		23.0	0.0
10	PI2 BPSK	25	27		21.80		23.0	0.0
10	PI2 BPSK	50	0		21.92		23.0	0.0
10	QPSK	1	1		22.03			
10	QPSK	1	26		21.96		23.0	0.0
10	QPSK	1	50		21.96		23.0	0.0
10	QPSK	25	0		21.91			
10	QPSK	25	14		21.96		23.0	0.0
10	QPSK	25	27		21.84		23.0	0.0
10	QPSK	50	0		21.90		23.0	0.0
10	16QAM	1	1		21.60			
10	64QAM	1	1		20.03		21.5	1.5
10	256QAM	1	1		18.30		19.5	3.5
Channel				158100	158100	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	21.81	21.90	21.86	23.0	0.0

n25 Ant1 ECI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374500	376500	378500		
Frequency (MHz)				1870	1882.5	1895		
40	PI2 BPSK	1	1	18.03	17.98	18.01	19.0	0.0
40	PI2 BPSK	1	108	17.78	17.97	17.97		
40	PI2 BPSK	1	214	17.84	17.92	17.72	19.0	0.0
40	PI2 BPSK	108	0	17.84	17.91	17.94	19.0	0.0
40	PI2 BPSK	108	54	17.96	17.97	17.96	19.0	0.0
40	PI2 BPSK	108	108	17.77	17.87	17.73	19.0	0.0
40	PI2 BPSK	216	0	17.80	18.00	17.93	19.0	0.0
40	QPSK	1	1	18.02	18.07	17.99		
40	QPSK	1	108	17.96	18.03	17.91	19.0	0.0
40	QPSK	1	214	17.81	18.00	17.94	19.0	0.0
40	QPSK	108	0	17.93	17.90	17.82		
40	QPSK	108	54	17.98	18.02	17.92	19.0	0.0
40	QPSK	108	108	17.84	17.86	17.87	19.0	0.0
40	QPSK	216	0	17.92	17.98	17.86	19.0	0.0
40	16QAM	1	1	17.79	17.80	17.90		
40	64QAM	1	1	17.70	17.87	17.77	19.0	0.0
40	256QAM	1	1	17.77	17.83	17.74	19.0	0.0
Channel				372300	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	17.92	17.97	17.87	19.0	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1921.5	1927.5	1933.5		
25	QPSK	1	1	17.91	18.02	17.93	19.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	17.96	17.99	17.86	19.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1882.5	1907.5		
15	QPSK	1	1	17.98	18.02	17.85	19.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	17.88	17.95	17.85	19.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	17.97	17.98	17.91	19.0	0.0



n26 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				166500	166300	167600	23.0	0.0	
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	21.95	21.99	21.92			
20	PI2 BPSK	1	53	21.76	21.96	21.75	23.0	0.0	
20	PI2 BPSK	1	104	21.81	21.86	21.86			
20	PI2 BPSK	50	0	21.75	21.91	21.80			
20	PI2 BPSK	50	28	21.87	21.95	21.88	23.0	0.0	
20	PI2 BPSK	50	58	21.86	21.80	21.71			
20	PI2 BPSK	100	0	21.87	21.88	21.84			
20	QPSK	1	1	21.93	22.04	21.89	23.0	0.0	
20	QPSK	1	53	21.92	21.93	21.97			
20	QPSK	1	104	21.94	21.97	21.76			
20	QPSK	50	0	21.74	21.89	21.83	23.0	0.0	
20	QPSK	50	28	21.90	21.98	21.96			
20	QPSK	50	58	21.82	21.91	21.81			
20	QPSK	100	0	21.80	21.83	21.81	23.0	0.0	
20	16QAM	1	1	21.82	21.80	21.90			
20	64QAM	1	1	20.40	20.32	20.27		21.5	
20	256QAM	1	1	18.43	18.48	18.37	19.5		
Channel				164300	166300	163300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5	23.0	0.0	
15	QPSK	1	1	21.84	21.94	21.83			
Channel				163600	166300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				810	831.5	844	23.0	0.0	
10	QPSK	1	1	21.87	21.97	21.85			
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5	23.0	0.0	
5	QPSK	1	1	21.82	21.91	21.75			

n30 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				462000			18.0	0.0
Frequency (MHz)				2310				
10	PI2 BPSK	1	1		17.31			
10	PI2 BPSK	1	26		17.38			
10	PI2 BPSK	1	50		17.31			
10	PI2 BPSK	25	0		17.27			
10	PI2 BPSK	25	14		17.31			
10	PI2 BPSK	25	27		17.27			
10	PI2 BPSK	50	0		17.32			
10	QPSK	1	1		17.44			
10	QPSK	1	26		17.38			
10	QPSK	1	50		17.39			
10	QPSK	25	0		17.32			
10	QPSK	25	14		17.37			
10	QPSK	25	27		17.28			
10	QPSK	50	0		17.33			
10	16QAM	1	1		17.28			
10	64QAM	1	1		17.28			
10	256QAM	1	1		17.16			
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5	18.0	0.0
5	QPSK	1	1	17.28	17.35	17.31		

n66 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				346000	348000	350000	20.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	19.32	19.36	19.28			
40	PI2 BPSK	1	108	19.29	19.37	19.27	20.0	0.0	
40	PI2 BPSK	1	214	19.23	19.26	19.20			
40	PI2 BPSK	108	0	19.13	19.24	19.11			
40	PI2 BPSK	108	54	19.24	19.29	19.19	20.0	0.0	
40	PI2 BPSK	108	108	19.19	19.27	19.21			
40	PI2 BPSK	216	0	19.24	19.33	19.25			
40	QPSK	1	1	19.31	19.45	19.37	20.0	0.0	
40	QPSK	1	108	19.37	19.41	19.33			
40	QPSK	1	214	19.30	19.33	19.20			
40	QPSK	108	0	19.24	19.34	19.30	20.0	0.0	
40	QPSK	108	54	19.34	19.39	19.34			
40	QPSK	108	108	19.16	19.23	19.17			
40	QPSK	216	0	19.17	19.26	19.14	20.0	0.0	
40	16QAM	1	1	19.25	19.29	19.17			
40	64QAM	1	1	19.23	19.26	19.15		20.0	
40	256QAM	1	1	18.94	19.05	18.97	19.5		
Channel				345000	348000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	20.0	0.0	
30	QPSK	1	1	19.17	19.40	19.34			
Channel				344500	348000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	20.0	0.0	
25	QPSK	1	1	19.18	19.36	19.24			
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	20.0	0.0	
20	QPSK	1	1	19.26	19.35	19.23			
Channel				343500	348000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	20.0	0.0	
15	QPSK	1	1	19.22	19.31	19.30			
Channel				343000	348000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	20.0	0.0	
10	QPSK	1	1	19.20	19.33	19.24			
Channel				342500	348000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	20.0	0.0	
5	QPSK	1	1	19.18	19.38	19.26			

n70 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				340500	1702.5		20.0	0.0
Frequency (MHz)								
15	PI2 BPSK	1	1		19.28		20.0	0.0
15	PI2 BPSK	1	40		19.23			
15	PI2 BPSK	1	77		19.19		20.0	0.0
15	PI2 BPSK	36	0		19.16			
15	PI2 BPSK	36	22		19.26		20.0	0.0
15	PI2 BPSK	36	43		19.13			
15	PI2 BPSK	75	0		19.21		20.0	0.0
15	QPSK	1	1		19.32			
15	QPSK	1	40		19.23		20.0	0.0
15	QPSK	1	77		19.19			
15	QPSK	36	0		19.24		20.0	0.0
15	QPSK	36	22		19.29			
15	QPSK	36	43		19.13		20.0	0.0
15	QPSK	75	0		19.21			
15	16QAM	1	1		19.15		20.0	0.0
15	64QAM	1	1		19.18			
15	256QAM	1	1		18.64		19.5	0.5
Channel				340500	1702.5	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	19.11	19.24	19.20	20.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	19.07	19.27	19.19	20.0	0.0

n71 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				134600	136100	137600	23.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	21.93	21.97	21.89	23.0	0.0
20	PI2 BPSK	1	53	21.87	21.93	21.86		
20	PI2 BPSK	1	104	21.79	21.86	21.76	23.0	0.0
20	PI2 BPSK	50	0	21.88	21.92	21.79		
20	PI2 BPSK	50	28	21.82	21.90	21.86	23.0	0.0
20	PI2 BPSK	50	56	21.72	21.86	21.71		
20	PI2 BPSK	100	0	21.83	21.87	21.76	23.0	0.0
20	QPSK	1	1	21.90	22.03	21.95		
20	QPSK	1	53	21.85	21.93	21.89	23.0	0.0
20	QPSK	1	104	21.79	21.88	21.75		
20	QPSK	50	0	21.71	21.85	21.74	23.0	0.0
20	QPSK	50	28	21.91	21.97	21.86		
20	QPSK	50	56	21.84	21.86	21.76	23.0	0.0
20	QPSK	100	0	21.79	21.92	21.83		
20	16QAM	1	1	21.64	21.71	21.65	23.0	0.0
20	64QAM	1	1	20.14	20.33	20.11		
20	256QAM	1	1	18.55	18.64	18.57	19.5	3.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	21.81	21.93	21.91	23.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	21.79	21.94	21.83	23.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	21.75	21.88	21.90	23.0	0.0

n38 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				518004	519000	519996	17.5	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	16.50	16.47	16.46	17.5	0.0	
40	PI/2 BPSK	1	53	16.50	16.42	16.41			
40	PI/2 BPSK	1	104	16.25	16.41	16.35	17.5	0.0	
40	PI/2 BPSK	50	0	16.24	16.39	16.22			
40	PI/2 BPSK	50	28	16.35	16.43	16.43	17.5	0.0	
40	PI/2 BPSK	50	56	16.18	16.51	16.28			
40	PI/2 BPSK	100	0	16.27	16.52	16.37	17.5	0.0	
40	QPSK	1	1	16.63	16.68	16.57			
40	QPSK	1	53	16.31	16.52	16.37	17.5	0.0	
40	QPSK	1	104	16.47	16.59	16.36			
40	QPSK	50	0	16.31	16.20	16.22	17.5	0.0	
40	QPSK	50	28	16.44	16.58	16.51			
40	QPSK	80	56	16.15	16.39	16.17	17.5	0.0	
40	QPSK	100	0	16.37	16.53	16.30			
40	16QAM	1	1	16.30	16.40	16.39	17.5	0.0	
40	64QAM	1	1	16.18	16.40	16.38			
40	256QAM	1	1	16.26	16.23	16.24	17.5	0.0	
Channel				517002	519000	520998		MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	16.37	16.44	16.47	17.5	0.0	
Channel				516504	519000	521496		MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	16.43	16.04	16.33	17.5	0.0	
Channel				516000	519000	522000		MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	16.45	16.43	16.34	17.5	0.0	
Channel				515502	519000	524998		MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	16.35	16.50	16.26	17.5	0.0	
Channel				515004	519000	525996		MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	16.42	16.51	16.41	17.5	0.0	

n41 PC3&2 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				506202	518998	520000	17.5	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	16.47	16.58	16.35	17.5	0.0	
100	PI/2 BPSK	1	137	16.36	16.51	16.49			
100	PI/2 BPSK	1	271	16.31	16.36	16.26	17.5	0.0	
100	PI/2 BPSK	135	0	16.39	16.40	16.39			
100	PI/2 BPSK	135	69	16.37	16.46	16.27	17.5	0.0	
100	PI/2 BPSK	135	138	16.26	16.40	16.29			
100	PI/2 BPSK	270	0	16.32	16.40	16.34	17.5	0.0	
100	QPSK	1	1	16.56	16.69	16.57			
100	QPSK	1	137	16.38	16.43	16.35	17.5	0.0	
100	QPSK	1	271	16.40	16.51	16.43			
100	QPSK	135	0	16.24	16.32	16.25	17.5	0.0	
100	QPSK	135	69	16.49	16.60	16.53			
100	QPSK	135	138	16.22	16.35	16.15	17.5	0.0	
100	QPSK	270	0	16.42	16.48	16.37			
100	16QAM	1	1	16.42	16.49	16.33	17.5	0.0	
100	64QAM	1	1	16.29	16.31	16.24			
100	256QAM	1	1	16.20	16.31	16.29	17.5	0.0	
Channel				506200	518998	520998		MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	16.52	16.55	16.44	17.5	0.0	
Channel				507204	518998	520998		MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	16.45	16.69	16.45	17.5	0.0	
Channel				506202	518998	521000		MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	16.44	16.61	16.47	17.5	0.0	
Channel				505200	518998	521998		MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	16.45	16.54	16.47	17.5	0.0	
Channel				504204	518998	522998		MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	16.44	16.58	16.45	17.5	0.0	
Channel				503202	518998	524000		MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.46	16.60	16.52	17.5	0.0	
Channel				502200	518998	524998		MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	16.55	16.65	16.46	17.5	0.0	
Channel				501204	518998	525998		MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	16.46	16.58	16.44	17.5	0.0	
Channel				500700	518998	526498		MPR (dB)	
Frequency (MHz)				2493.15	2592.99	2684.48			
15	QPSK	1	1	16.51	16.56	16.47	17.5	0.0	
Channel				500202	518998	527000		MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	16.48	16.57	16.51	17.5	0.0	

n38 Ant1 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	16.50	16.47	16.46	17.5	0.0	
40	PI2 BPSK	1	53	16.50	16.42	16.41			
40	PI2 BPSK	1	104	16.25	16.41	16.35			
40	PI2 BPSK	50	0	16.24	16.39	16.22	17.5	0.0	
40	PI2 BPSK	50	28	16.35	16.43	16.43	17.5	0.0	
40	PI2 BPSK	50	56	16.18	16.51	16.28	17.5	0.0	
40	PI2 BPSK	100	0	16.27	16.52	16.37	17.5	0.0	
40	QPSK	1	1	16.63	16.68	16.57			
40	QPSK	1	53	16.31	16.52	16.37			
40	QPSK	1	104	16.47	16.59	16.36	17.5	0.0	
40	QPSK	50	0	16.31	16.20	16.22			
40	QPSK	50	28	16.44	16.58	16.51			
40	QPSK	50	56	16.15	16.39	16.17	17.5	0.0	
40	QPSK	100	0	16.37	16.53	16.30			
40	16QAM	1	1	16.30	16.40	16.39	17.5	0.0	
40	64QAM	1	1	16.18	16.40	16.38	17.5	0.0	
40	256QAM	1	1	16.26	16.23	16.24	17.5	0.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	16.37	16.44	16.47	17.5	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	16.48	16.64	16.33	17.5	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580 <th>2595</th> <th>2610<th colspan="3"></th></th>	2595	2610 <th colspan="3"></th>			
20	QPSK	1	1	16.45	16.43	16.34	17.5	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49 <th colspan="3"></th>			
15	QPSK	1	1	16.35	16.50	16.26	17.5	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98 <th colspan="3"></th>			
10	QPSK	1	1	16.42	16.51	16.41	17.5	0.0	

n41 Ant 1_ISED PC3&2 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519000	518998	520000			
Frequency (MHz)				2550	2552.99	2640			
100	PI2 BPSK	1	1	16.53	16.58	16.35	17.5	0.0	
100	PI2 BPSK	1	137	16.46	16.51	16.49			
100	PI2 BPSK	1	271	16.23	16.36	16.26			
100	PI2 BPSK	135	0	16.28	16.40	16.39	17.5	0.0	
100	PI2 BPSK	135	69	16.40	16.46	16.27	17.5	0.0	
100	PI2 BPSK	135	138	16.32	16.40	16.29	17.5	0.0	
100	PI2 BPSK	270	0	16.21	16.40	16.34	17.5	0.0	
100	QPSK	1	1	16.65	16.69	16.57			
100	QPSK	1	137	16.34	16.43	16.35			
100	QPSK	1	271	16.39	16.51	16.43	17.5	1.0	
100	QPSK	135	0	16.21	16.32	16.25			
100	QPSK	135	69	16.56	16.60	16.53			
100	QPSK	135	138	16.29	16.35	16.15	16.5	1.0	
100	QPSK	270	0	16.33	16.48	16.37			
100	16QAM	1	1	16.48	16.49	16.33	17.5	0.0	
100	64QAM	1	1	16.30	16.31	16.24	17.5	0.0	
100	256QAM	1	1	16.20	16.31	16.29	17.5	0.0	
Channel				509004	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2545.02	2552.99	2644.98			
90	QPSK	1	1	16.35	16.55	16.44	17.5	0.0	
Channel				508002	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2540.01	2552.99	2649.99			
80	QPSK	1	1	16.38	16.66	16.45	17.5	0.0	
Channel				507000	518998	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2535	2552.99	2655			
70	QPSK	1	1	16.41	16.61	16.47	17.5	0.0	
Channel				506004	518998	521996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530.02	2552.99	2659.98			
60	QPSK	1	1	16.43	16.54	16.47	17.5	0.0	
Channel				505002	518998	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2525.01	2552.99	2664.99			
50	QPSK	1	1	16.45	16.58	16.45	17.5	0.0	
Channel				504000	518998	523000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2552.99	2670			
40	QPSK	1	1	16.37	16.60	16.52	17.5	0.0	
Channel				503004	518998	524996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515.02	2552.99	2674.99			
30	QPSK	1	1	16.42	16.65	16.46	17.5	0.0	
Channel				502002	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2552.99	2679.99			
20	QPSK	1	1	16.47	16.58	16.44	17.5	0.0	
Channel				501504	518998	526496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.03	2552.99	2684.98			
15	QPSK	1	1	16.47	16.56	16.47	17.5	0.0	
Channel				501000	518998	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2552.99	2685			
10	QPSK	1	1	16.43	16.57	16.51	17.5	0.0	



n41 PC3 Ant2 Default									
BW [MHz]	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	529090			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.32	22.40	22.37			
100	PI2 BPSK	1	137	22.22	22.32	22.28			
100	PI2 BPSK	1	271	22.15	22.32	22.14	24.0	0.0	
100	PI2 BPSK	135	0	22.24	22.31	22.21	24.0	0.0	
100	PI2 BPSK	135	69	22.24	22.29	22.20	24.0	0.0	
100	PI2 BPSK	135	138	22.17	22.31	22.12	24.0	0.0	
100	PI2 BPSK	270	0	22.13	22.33	22.25			
100	QPSK	1	1	22.37	22.40	22.42			
100	QPSK	1	137	22.27	22.29	22.30	24.0	0.0	
100	QPSK	1	271	22.12	22.18	22.03			
100	QPSK	135	0	22.18	22.27	22.24	24.0	0.0	
100	QPSK	135	69	22.30	22.42	22.28	24.0	0.0	
100	QPSK	135	138	22.18	22.24	22.12	24.0	0.0	
100	QPSK	270	0	22.26	22.25	22.20			
100	16QAM	1	1	22.08	22.23	22.12	24.0	0.0	
100	64QAM	1	1	22.15	22.19	22.08	24.0	0.0	
100	256QAM	1	1	21.22	21.38	21.22	22.5	1.5	
Channel				530200	518598	529090	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.33	22.32	22.35	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	QPSK	1	1	22.28	22.30	22.29	24.0	0.0	
Channel				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.29	22.38	22.38	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	22.26	22.38	22.37	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	22.29	22.34	22.39	24.0	0.0	
Channel				530202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.31	22.34	22.34	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.29	22.30	22.36	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	22.23	22.38	22.33	24.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2684.48			
15	QPSK	1	1	22.31	22.34	22.29	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	22.32	22.39	22.29	24.0	0.0	

n41 PC2 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505200	518598	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.34	25.49	25.41			
100	PI2 BPSK	1	137	25.33	25.37	25.39			
100	PI2 BPSK	1	271	25.23	25.36	25.27	27.0	0.0	
100	PI2 BPSK	135	0	25.08	25.10	25.09	26.5	0.5	
100	PI2 BPSK	135	69	25.39	25.42	25.21	27.0	0.0	
100	PI2 BPSK	135	138	25.02	25.03	25.01	26.5	0.5	
100	PI2 BPSK	270	0	25.10	25.13	24.94			
100	QPSK	1	1	25.43	25.53	25.46			
100	QPSK	1	137	25.35	25.47	25.47	27.0	0.0	
100	QPSK	1	271	25.36	25.42	25.36			
100	QPSK	135	0	24.54	24.64	24.58	26.0	1.0	
100	QPSK	135	69	25.45	25.50	25.39	27.0	0.0	
100	QPSK	135	138	24.54	24.59	24.40	26.0	1.0	
100	QPSK	270	0	24.55	24.65	24.67			
100	16QAM	1	1	24.26	24.38	24.31	26.0	1.0	
100	64QAM	1	1	22.75	22.81	22.82	24.5	2.5	
100	256QAM	1	1	21.29	21.35	21.36	22.5	4.5	
Channel				505200	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.30	25.49	25.42	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.37	25.40	25.39	27.0	0.0	
Channel				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.37	25.42	25.40	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	25.35	25.40	25.36	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.32	25.38	25.43	27.0	0.0	
Channel				530202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.29	25.47	25.32	27.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.36	25.43	25.37	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.35	25.42	25.32	27.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2684.48			
15	QPSK	1	1	25.37	25.40	25.36	27.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	25.35	25.43	25.42	27.0	0.0	

n48 Part96 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				640000	641666	643332			
Frequency (MHz)				3600	3624.99	3649.98			
100	PI2 BPSK	1	1	23.36	23.48	23.44			
100	PI2 BPSK	1	137	23.31	23.45	23.38	24.0	0.0	
100	PI2 BPSK	1	271	23.28	23.41	23.37			
100	PI2 BPSK	135	0	23.11	23.23	23.09	23.5	0.5	
100	PI2 BPSK	135	69	23.34	23.44	23.33	24.0	0.0	
100	PI2 BPSK	135	138	23.06	23.11	23.05	23.5	0.5	
100	PI2 BPSK	270	0	23.06	23.19	23.05			
100	QPSK	1	1	23.43	23.53	23.48			
100	QPSK	1	137	23.38	23.46	23.35	24.0	0.0	
100	QPSK	1	271	23.34	23.40	23.29			
100	QPSK	135	0	22.74	22.88	22.85	23.0	1.0	
100	QPSK	135	69	23.37	23.48	23.42	24.0	0.0	
100	QPSK	135	138	22.75	22.82	22.77	23.0	1.0	
100	QPSK	270	0	22.83	22.87	22.78			
100	16QAM	1	1	21.83	21.88	21.81	23.0	1.0	
100	64QAM	1	1	20.45	20.57	20.43	21.5	2.5	
100	256QAM	1	1	19.07	19.19	19.06	19.5	4.5	
Channel				638668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99			
90	QPSK	1	1	23.29	23.45	23.41	24.0	0.0	
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3590.01	3624.99	3660			
80	QPSK	1	1	23.32	23.44	23.41	24.0	0.0	
Channel				638668	641666	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3580.02	3624.99	3669.99			
60	QPSK	1	1	23.33	23.39	23.34	24.0	0.0	
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3575.01	3624.99	3675			
50	QPSK	1	1	23.34	23.41	23.33	24.0	0.0	
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3570	3624.99	3679.98			
40	QPSK	1	1	23.35	23.42	23.43	24.0	0.0	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	23.31	23.41	23.37	24.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3689.99			
20	QPSK	1	1	23.33	23.49	23.42	24.0	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	23.33	23.48	23.39	24.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	23.31	23.49	23.34	24.0	0.0	



Part270 n77 PC3 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	24.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	22.77	22.83	22.71	24.0	0.0	
100	PI2 BPSK	1	137	22.63	22.77	22.63			
100	PI2 BPSK	1	271	22.53	22.63	22.52	24.0	0.0	
100	PI2 BPSK	135	0	22.65	22.78	22.65			
100	PI2 BPSK	135	69	22.72	22.84	22.77	24.0	0.0	
100	PI2 BPSK	135	138	22.65	22.79	22.73		24.0	
100	PI2 BPSK	270	0	22.89	22.82	22.72	24.0	0.0	
100	QPSK	1	1	22.81	22.85	22.74			
100	QPSK	1	137	22.69	22.83	22.80	24.0	0.0	
100	QPSK	1	271	22.53	22.66	22.61			
100	QPSK	135	0	22.65	22.78	22.75	24.0	0.0	
100	QPSK	135	69	22.73	22.81	22.78		24.0	
100	QPSK	135	138	22.63	22.73	22.66	24.0	0.0	
100	QPSK	270	0	22.68	22.76	22.63			
100	16QAM	1	1	22.29	22.43	22.31	24.0	0.0	
100	64QAM	1	1	22.35	22.48	22.37		24.0	
100	256QAM	1	1	21.45	21.51	21.47	22.5	1.5	
Channel				643998	656000	662334	Tune-up limit		
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	MPR	
90	QPSK	1	1	22.78	22.71	22.67	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit		
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	MPR	
80	QPSK	1	1	22.71	22.71	22.63	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit		
Frequency (MHz)				3735	3840	3945	(dBm)	MPR	
70	QPSK	1	1	22.75	22.80	22.70	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit		
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	MPR	
60	QPSK	1	1	22.69	22.77	22.59	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit		
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	MPR	
50	QPSK	1	1	22.74	22.80	22.61	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit		
Frequency (MHz)				3715.02	3840	3955.01	(dBm)	MPR	
40	QPSK	1	1	22.76	22.78	22.63	24.0	0.0	
Channel				647688	656000	664334	Tune-up limit		
Frequency (MHz)				3715.02	3840	3955.01	(dBm)	MPR	
30	QPSK	1	1	22.78	22.72	22.70	24.0	0.0	
Channel				647500	656000	664500	Tune-up limit		
Frequency (MHz)				3712.5	3840	3967.5	(dBm)	MPR	
25	QPSK	1	1	22.76	22.72	22.64	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit		
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	MPR	
20	QPSK	1	1	22.78	22.73	22.68	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit		
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	MPR	
15	QPSK	1	1	22.67	22.75	22.70	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit		
Frequency (MHz)				3705	3840	3975	(dBm)	MPR	
10	QPSK	1	1	22.70	22.77	22.71	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit		
Frequency (MHz)				3705	3840	3975	(dBm)	MPR	

Part270 n77 PC2 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	27.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	25.73	25.87	25.84	27.0	0.0	
100	PI2 BPSK	1	137	25.73	25.82	25.74			
100	PI2 BPSK	1	271	25.72	25.79	25.76	26.5	0.5	
100	PI2 BPSK	135	0	25.52	25.60	25.46			
100	PI2 BPSK	135	69	25.75	25.82	25.74	26.5	0.5	
100	PI2 BPSK	135	138	25.44	25.56	25.42			
100	PI2 BPSK	270	0	25.56	25.62	25.49	27.0	0.0	
100	QPSK	1	1	25.80	25.91	25.86			
100	QPSK	1	137	25.72	25.84	25.80	27.0	0.0	
100	QPSK	1	271	25.83	25.86	25.72			
100	QPSK	135	0	24.94	25.05	24.93	26.0	1.0	
100	QPSK	135	69	25.82	25.88	25.74			
100	QPSK	135	138	24.86	24.96	24.86	26.0	1.0	
100	QPSK	270	0	24.87	25.00	24.95			
100	16QAM	1	1	24.85	24.68	24.57	26.0	1.0	
100	64QAM	1	1	23.06	23.19	23.08			
100	256QAM	1	1	21.52	21.61	21.55	22.5	4.5	
Channel				649508	656000	662334			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	25.74	25.79	25.72	27.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.72	25.76	25.79	27.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	25.76	25.80	25.78	27.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	25.66	25.86	25.82	27.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	25.66	25.77	25.81	27.0	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.68	25.85	25.73	27.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	25.67	25.83	25.73	27.0	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	25.69	25.81	25.73	27.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.71	25.84	25.74	27.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	25.68	25.88	25.80	27.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.74	25.86	25.78	27.0	0.0	

Part27Q n77 PC3 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				635334	3500.01				
100	PV2 BP8K	1	1		22.83				
100	PV2 BP8K	1	137		22.78		24.0	0.0	
100	PV2 BP8K	1	271		22.71				
100	PV2 BP8K	135	0		22.83		24.0	0.0	
100	PV2 BP8K	135	69		22.80		24.0	0.0	
100	PV2 BP8K	135	138		22.85		24.0	0.0	
100	PV2 BP8K	270	0		22.77				
100	QPSK	1	1		22.87				
100	QPSK	1	137		22.83		24.0	0.0	
100	QPSK	1	271		22.85				
100	QPSK	135	0		22.79		24.0	0.0	
100	QPSK	135	69		22.82		24.0	0.0	
100	QPSK	135	138		22.86		24.0	0.0	
100	QPSK	270	0		22.87		24.0	0.0	
100	16QAM	1	1		22.84		24.0	0.0	
100	64QAM	1	1		22.48		24.0	0.0	
100	256QAM	1	1		21.55		22.5	1.5	
Channel									
Frequency (MHz)				635300	635334	635668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.69	22.74	22.71	24.0	0.0	
Channel									
Frequency (MHz)				632668	635334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3493.02	3500.01	3510	24.0	0.0	
Channel									
Frequency (MHz)				632244	635334	634334	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	22.75	22.79	22.77	24.0	0.0	
Channel									
Frequency (MHz)				632000	635334	634668	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3485	3500.01	3500.02	24.0	0.0	
Channel									
Frequency (MHz)				631668	635334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3475.02	3500.01	3505	24.0	0.0	
Channel									
Frequency (MHz)				631334	635334	635334	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.74	22.72	22.67	24.0	0.0	
Channel									
Frequency (MHz)				631000	635334	635668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3465	3500.01	3535.02	24.0	0.0	
Channel									
Frequency (MHz)				630668	635334	635834	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3462.51	3500.01	3537.51	24.0	0.0	
Channel									
Frequency (MHz)				630334	635334	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3460.02	3500.01	3540	24.0	0.0	
Channel									
Frequency (MHz)				630000	635334	636168	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3457.5	3500.01	3542.52	24.0	0.0	
Channel									
Frequency (MHz)				629334	635334	636334	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3455.01	3500.01	3545.01	24.0	0.0	
Channel									
Frequency (MHz)				629000	635334	636500	Tune-up limit (dBm)	MPR (dB)	



Part27Q n77 PC2 Ant2 Default									
BW [MHz]	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)				3500.01					
100	Pl2 BPSK	1	1		25.87				
100	Pl2 BPSK	1	137		25.83		27.0	0.0	
100	Pl2 BPSK	1	271		25.76				
100	Pl2 BPSK	135	0		25.36		26.5	0.5	
100	Pl2 BPSK	135	69		25.82		27.0	0.0	
100	Pl2 BPSK	135	138		25.26		26.5	0.5	
100	Pl2 BPSK	270	0		25.31				
100	QPSK	1	1		25.92				
100	QPSK	1	137		25.88		27.0	0.0	
100	QPSK	1	271		25.81				
100	QPSK	135	0		24.83		26.0	1.0	
100	QPSK	135	69		25.87		27.0	0.0	
100	QPSK	135	138		24.73		26.0	1.0	
100	QPSK	270	0		24.81				
100	16QAM	1	1		24.45		26.0	1.0	
100	64QAM	1	1		22.95		24.5	2.5	
100	256QAM	1	1		21.52		19.5	4.5	
Channel				633000	633324	633668		MPR	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	25.79	25.84	25.78	27.0	0.0	
Channel				632668	633334	634000		MPR	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	25.81	25.84	25.75	27.0	0.0	
Channel				632334	633334	634334		MPR	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	25.77	25.81	25.75	27.0	0.0	
Channel				632000	633334	634668		MPR	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	25.79	25.80	25.85	27.0	0.0	
Channel				631668	633334	635000		MPR	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	25.73	25.88	25.78	27.0	0.0	
Channel				631334	633334	635334		MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	25.83	25.87	25.76	27.0	0.0	
Channel				631000	633334	635668		MPR	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	25.72	25.83	25.78	27.0	0.0	
Channel				630668	633334	635834		MPR	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	25.80	25.81	25.75	27.0	0.0	
Channel				630334	633334	636000		MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	25.74	25.86	25.85	27.0	0.0	
Channel				630000	633334	636168		MPR	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	25.78	25.78	25.74	27.0	0.0	
Channel				633334	633324	636334		MPR	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	25.81	25.77	25.81	27.0	0.0	

Part27O n78 PC3 Ant2 Default									
BW [MHz]	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)				3750					
100	Pl2 BPSK	1	1		23.08			0.0	
100	Pl2 BPSK	1	137		23.02		24.0	0.0	
100	Pl2 BPSK	1	271		22.93				
100	Pl2 BPSK	135	0		22.48		23.5	0.5	
100	Pl2 BPSK	135	69		23.05		24.0	0.0	
100	Pl2 BPSK	135	138		22.52		23.5	0.5	
100	Pl2 BPSK	270	0		22.58				
100	QPSK	1	1		23.12				
100	QPSK	1	137		23.04		24.0	0.0	
100	QPSK	1	271		23.00				
100	QPSK	135	0		21.95		23.0	1.0	
100	QPSK	135	69		23.07		24.0	0.0	
100	QPSK	135	138		22.90		23.0	1.0	
100	QPSK	270	0		22.04				
100	16QAM	1	1		21.78		23.0	1.0	
100	64QAM	1	1		20.65		21.5	2.5	
100	256QAM	1	1		18.88		19.5	4.5	
Channel				649668	650000	650334		MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.92	23.01	22.95	24.0	0.0	
Channel				649334	650000	650668		MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.89	22.98	23.02	24.0	0.0	
Channel				649000	650000	651000		MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.93	22.98	23.03	24.0	0.0	
Channel				648668	650000	651334		MPR	
Frequency (MHz)				3730.02	3750	3760.01			
60	QPSK	1	1	22.93	23.09	23.04	24.0	0.0	
Channel				648334	650000	651668		MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.96	23.05	23.01	24.0	0.0	
Channel				648000	650000	652000		MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.99	22.98	23.01	24.0	0.0	
Channel				647668	650000	652334		MPR	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.94	23.08	22.94	24.0	0.0	
Channel				647334	650000	652668		MPR	
Frequency (MHz)				3710.01	3750	3790.02			
25	QPSK	1	1	22.96	23.00	23.01	24.0	0.0	
Channel				647000	650000	653000		MPR	
Frequency (MHz)				3705	3750	3795			
20	QPSK	1	1	23.01	23.04	23.02	24.0	0.0	
Channel				647188	650000	652834		MPR	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	23.01	22.97	22.96	24.0	0.0	
Channel				647000	650000	653000		MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.99	23.07	22.99	24.0	0.0	

Part27Q n78 PC3 Ant2 Default										
BW [MHz]	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	Pl2 BPSK	1	1		23.06					
100	Pl2 BPSK	1	137		23.01		24.0	0.0		
100	Pl2 BPSK	1	271		23.07					
100	Pl2 BPSK	135	0		22.43		23.5	0.5		
100	Pl2 BPSK	135	69		23.03		24.0	0.0		
100	Pl2 BPSK	135	138		22.39		23.5	0.5		
100	Pl2 BPSK	270	0		22.42					
100	QPSK	1	1		23.10					
100	QPSK	1	137		23.04		24.0	0.0		
100	QPSK	1	271		22.95					
100	QPSK	135	0		21.90		23.0	1.0		
100	QPSK	135	69		23.05		24.0	0.0		
100	QPSK	135	138		21.91		23.0	1.0		
100	QPSK	270	0		21.89					
100	16QAM	1	1		21.88		23.0	1.0		
100	64QAM	1	1		20.61		21.5	2.5		
100	256QAM	1	1		18.93		19.5	4.5		
Channel				633500		633668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3486		3500.01	3500.02			
90	QPSK	1	1	22.94	22.99	22.90	24.0	0.0		
Channel				632668		633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02		3500.01	3510			
80	QPSK	1	1	22.97	23.03	23.01	24.0	0.0		
Channel				632334		633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01		3500.01	3515.01			
70	QPSK	1	1	22.97	23.07	22.97	24.0	0.0		
Channel				632000		633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485		3500.01	3520.02			
60	QPSK	1	1	22.98	23.05	22.95	24.0	0.0		
Channel				631668		633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02		3500.01	3525			
50	QPSK	1	1	23.02	23.02	22.93	24.0	0.0		
Channel				631334		633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01		3500.01	3530.01			
40	QPSK	1	1	22.98	23.02	22.90	24.0	0.0		
Channel				631000		633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465		3500.01	3535.02			
30	QPSK	1	1	22.97	23.05	22.91	24.0	0.0		
Channel				630668		633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51		3500.01	3537.51			
25	QPSK	1	1	22.94	22.97	22.94	24.0	0.0		
Channel				630334		633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.05		3500.01	3540			
20	QPSK	1	1	23.01	22.95	22.87	24.0	0.0		
Channel				630000		633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5		3500.01	3542.52			
15	QPSK	1	1	23.05	23.03	22.97	24.0	0.0		
Channel				629334		633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01		3500.01	3545.01			
10	QPSK	1	1	22.96	23.06	22.95	24.0	0.0		



n41 Ant 2_ISED PC2&3 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				510000	518598	520000			
Frequency (MHz)				2550	2592.99	2640			
100	PV2 BPSK	1	1	21.38	21.50	21.46	23.0	0.0	
100	PV2 BPSK	1	137	21.19	21.44	21.20			
100	PV2 BPSK	1	271	21.23	21.36	21.19			
100	PV2 BPSK	135	0	21.19	21.38	21.15	23.0	0.0	
100	PV2 BPSK	135	69	21.33	21.43	21.33	23.0	0.0	
100	PV2 BPSK	135	138	21.08	21.22	21.08	23.0	0.0	
100	PV2 BPSK	270	0	21.10	21.39	21.12	23.0	0.0	
100	QPSK	1	1	21.39	21.58	21.27			
100	QPSK	1	137	21.30	21.40	21.27			
100	QPSK	1	271	21.28	21.33	21.21	23.0	0.0	
100	QPSK	135	0	21.17	21.29	21.22			
100	QPSK	135	69	21.31	21.46	21.33			
100	QPSK	135	138	21.09	21.31	21.08	23.0	0.0	
100	QPSK	270	0	21.28	21.45	21.33	23.0	0.0	
100	16QAM	1	1	21.16	21.24	21.15	23.0	0.0	
100	64QAM	1	1	21.08	21.26	21.07	23.0	0.0	
100	256QAM	1	1	21.00	21.05	20.97	22.5	0.5	
Channel				520000	518598	520998	Tune-up limit (dBm)		
Frequency (MHz)				2545.02	2592.99	2644.98	MPR (dB)		
90	QPSK	1	1	21.34	21.53	21.25	23.0	0.0	
Channel				508002	518598	520998	Tune-up limit (dBm)		
Frequency (MHz)				2540.01	2592.99	2649.99	MPR (dB)		
80	QPSK	1	1	21.35	21.41	21.23	23.0	0.0	
Channel				508004	518598	531000	Tune-up limit (dBm)		
Frequency (MHz)				2530.02	2592.99	2655	MPR (dB)		
70	QPSK	1	1	21.28	21.45	21.24	23.0	0.0	
Channel				505002	518598	531998	Tune-up limit (dBm)		
Frequency (MHz)				2525.01	2592.99	2659.99	MPR (dB)		
60	QPSK	1	1	21.35	21.52	21.25	23.0	0.0	
Channel				504000	518598	532998	Tune-up limit (dBm)		
Frequency (MHz)				2520	2592.99	2664.99	MPR (dB)		
50	QPSK	1	1	21.30	21.51	21.17	23.0	0.0	
Channel				503000	518598	534000	Tune-up limit (dBm)		
Frequency (MHz)				2515.02	2592.99	2670	MPR (dB)		
40	QPSK	1	1	21.33	21.45	21.18	23.0	0.0	
Channel				502002	518598	534998	Tune-up limit (dBm)		
Frequency (MHz)				2510.01	2592.99	2674.98	MPR (dB)		
30	QPSK	1	1	21.32	21.51	21.19	23.0	0.0	
Channel				501004	518598	535998	Tune-up limit (dBm)		
Frequency (MHz)				2508.02	2592.99	2679.99	MPR (dB)		
20	QPSK	1	1	21.29	21.43	21.21	23.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)		
Frequency (MHz)				2503.5	2592.99	2682.48	MPR (dB)		
15	QPSK	1	1	21.34	21.51	21.17	23.0	0.0	
Channel				500002	518598	537000	Tune-up limit (dBm)		
Frequency (MHz)				2501.01	2592.99	2685	MPR (dB)		
10	QPSK	1	1	21.34	21.48	21.15	23.0	0.0	

ISED_RSS-192 n77 PC2&3 Ant2 ECI2									
BW [MHz]	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	636666	640000			
Frequency (MHz)				3500.01	3549.99	3600			
100	PV2 BPSK	1	1	20.51	20.42	20.49	21.5	0.0	
100	PV2 BPSK	1	137	20.41	20.28	20.32			
100	PV2 BPSK	1	271	20.29	20.26	20.20			
100	PV2 BPSK	135	0	20.40	20.38	20.37	21.5	0.0	
100	PV2 BPSK	135	69	20.45	20.37	20.42	21.5	0.0	
100	PV2 BPSK	135	138	20.35	20.27	20.32	21.5	0.0	
100	PV2 BPSK	270	0	20.56	20.51	20.48	21.5	0.0	
100	QPSK	1	1	20.60	20.55	20.49			
100	QPSK	1	137	20.49	20.39	20.45			
100	QPSK	1	271	20.48	20.38	20.38	21.5	0.0	
100	QPSK	135	0	20.48	20.44	20.39			
100	QPSK	135	69	20.54	20.51	20.44			
100	QPSK	135	138	20.37	20.27	20.25	21.5	0.0	
100	QPSK	270	0	20.47	20.34	20.43	21.5	0.0	
100	16QAM	1	1	20.40	20.37	20.37	21.5	0.0	
100	64QAM	1	1	20.33	20.30	20.27	21.5	0.0	
100	256QAM	1	1	20.20	20.10	20.15	21.5	0.0	
Channel				633000	636666	640332	Tune-up limit (dBm)		
Frequency (MHz)				3495	3549.99	3604.98	MPR (dB)		
90	QPSK	1	1	20.41	20.46	20.34	21.5	0.0	
Channel				632668	636666	640666	Tune-up limit (dBm)		
Frequency (MHz)				3490.02	3549.99	3609.99	MPR (dB)		
80	QPSK	1	1	20.43	20.41	20.35	21.5	0.0	
Channel				632334	636666	641000	Tune-up limit (dBm)		
Frequency (MHz)				3485.01	3549.99	3615	MPR (dB)		
70	QPSK	1	1	20.41	20.36	20.34	21.5	0.0	
Channel				632000	636666	641332	Tune-up limit (dBm)		
Frequency (MHz)				3480	3549.99	3619.98	MPR (dB)		
60	QPSK	1	1	20.48	20.49	20.48	21.5	0.0	
Channel				631668	636666	641666	Tune-up limit (dBm)		
Frequency (MHz)				3475.02	3549.99	3624.99	MPR (dB)		
50	QPSK	1	1	20.43	20.48	20.37	21.5	0.0	
Channel				631334	636666	642000	Tune-up limit (dBm)		
Frequency (MHz)				3470.01	3549.99	3630	MPR (dB)		
40	QPSK	1	1	20.42	20.40	20.38	21.5	0.0	
Channel				631000	636666	642332	Tune-up limit (dBm)		
Frequency (MHz)				3465	3549.99	3634.98	MPR (dB)		
30	QPSK	1	1	20.41	20.47	20.44	21.5	0.0	
Channel				630668	636666	642660	Tune-up limit (dBm)		
Frequency (MHz)				3462.51	3549.99	3637.5	MPR (dB)		
25	QPSK	1	1	20.39	20.47	20.43	21.5	0.0	
Channel				630668	636666	642666	Tune-up limit (dBm)		
Frequency (MHz)				3460.02	3549.99	3639.99	MPR (dB)		
20	QPSK	1	1	20.46	20.44	20.44	21.5	0.0	
Channel				630500	636666	642832	Tune-up limit (dBm)		
Frequency (MHz)				3457.5	3549.99	3642.48	MPR (dB)		
15	QPSK	1	1	20.38	20.38	20.41	21.5	0.0	
Channel				630334	636666	643000	Tune-up limit (dBm)		
Frequency (MHz)				3455.01	3549.99	3645	MPR (dB)		
10	QPSK	1	1	20.45	20.47	20.38	21.5	0.0	

ISED_RSS-192 n78 PC3 Ant2 ECI2									
BW [MHz]	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	636666	640000			
Frequency (MHz)				3500.01	3549.99	3600			
100	PV2 BPSK	1	1	20.45	20.33	20.36	21.5	0.0	
100	PV2 BPSK	1	137	20.38	20.36	20.30			
100	PV2 BPSK	1	271	20.30	20.26	20.21			
100	PV2 BPSK	135	0	20.26	20.19	20.13	21.5	0.0	
100	PV2 BPSK	135	69	20.44	20.34	20.38	21.5	0.0	
100	PV2 BPSK	135	138	20.23	20.18	20.12	21.5	0.0	
100	PV2 BPSK	270	0	20.30	20.28	20.20	21.5	0.0	
100	QPSK	1	1	20.51	20.38	20.42			
100	QPSK	1	137	20.40	20.38	20.32			
100	QPSK	1	271	20.36	20.30	20.34	21.5	0.0	
100	QPSK	135	0	20.38	20.31	20.28			
100	QPSK	135	69	20.48	20.41	20.44			
100	QPSK	135	138	20.32	20.26	20.21	21.5	0.0	
100	QPSK	270	0	20.38	20.36	20.28	21.5	0.0	
100	16QAM	1	1	20.23	20.11	20.21			
100	64QAM	1	1	20.33	20.25	20.24			
100	256QAM	1	1	18.47	18.32	18.90	19.5	2.0	
Channel				633000	635500	640000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3549.99	3604.98			
90	QPSK	1	1	20.37	20.23	20.31	21.5	0.0	
Channel				636666	636666	640666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3549.99	3609.99			
80	QPSK	1	1	20.44	20.31	20.31	21.5	0.0	
Channel				632334	636666	641000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3549.99	3615			
70	QPSK	1	1	20.46	20.37	20.32	21.5	0.0	
Channel				632000	636666	641332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3549.99	3610.98			
60	QPSK	1	1	20.44	20.31	20.22	21.5	0.0	
Channel				631668	636666	641666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3549.99	3624.99			
50	QPSK	1	1	20.45	20.32	20.36	21.5	0.0	
Channel				631334	636666	642000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3549.99	3630			
40	QPSK	1	1	20.37	20.20	20.39	21.5	0.0	
Channel				631000	636666	642332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3463	3549.99	3634.98			
30	QPSK	1	1	20.47	20.24	20.32	21.5	0.0	
Channel				630834	636666	642600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3549.99	3637.5			
25	QPSK	1	1	20.41	20.20	20.37	21.5	0.0	
Channel				630668	636666	642666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.65	3549.99	3638.99			
20	QPSK	1	1	20.41	20.24	20.41	21.5	0.0	
Channel				630500	636666	642832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.8	3549.99	3642.48			
15	QPSK	1	1	20.38	20.20	20.39	21.5	0.0	
Channel				630332	636666	643000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3549.99	3645			
10	QPSK	1	1	20.41	20.23	20.31	21.5	0.0	



n48 Part96 Ant4 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				640000	641666	643332			
Frequency (MHz)				3600	3624.99	3649.98			
100	P12 BPSK	1	1	19.32	19.39	19.27	20.0	0.0	
100	P12 BPSK	1	137	19.24	19.28	19.20		0.0	
100	P12 BPSK	1	271	19.14	19.28	19.13		0.0	
100	P12 BPSK	135	0	19.16	19.29	19.24	20.0	0.0	
100	P12 BPSK	135	69	19.22	19.32	19.25	20.0	0.0	
100	P12 BPSK	135	138	19.24	19.28	19.21	20.0	0.0	
100	P12 BPSK	270	0	19.19	19.30	19.15	20.0	0.0	
100	QPSK	1	1	19.37	19.46	19.42	20.0	0.0	
100	QPSK	1	137	19.31	19.42	19.38		0.0	
100	QPSK	1	271	19.31	19.36	19.31		0.0	
100	QPSK	135	0	19.24	19.27	19.16	20.0	0.0	
100	QPSK	135	69	19.21	19.33	19.27	20.0	0.0	
100	QPSK	135	138	19.12	19.21	19.09	20.0	0.0	
100	QPSK	270	0	19.19	19.30	19.21	20.0	0.0	
100	16QAM	1	1	19.11	19.26	19.16	20.0	0.0	
100	64QAM	1	1	19.13	19.23	19.15	20.0	0.0	
100	256QAM	1	1	19.76	19.84	19.79	19.5	0.5	
Channel				639999	641666	643666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99			
90	QPSK	1	1	19.25	19.40	19.37	20.0	0.0	
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3590.01	3624.99	3650			
80	QPSK	1	1	19.26	19.32	19.31	20.0	0.0	
Channel				639999	641666	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3580.02	3624.99	3669.99			
60	QPSK	1	1	19.31	19.33	19.33	20.0	0.0	
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3625.01	3624.99	3675			
50	QPSK	1	1	19.33	19.34	19.38	20.0	0.0	
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3670	3624.99	3679.98			
40	QPSK	1	1	19.23	19.39	19.32	20.0	0.0	
Channel				637666	641666	645556	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3684.99			
30	QPSK	1	1	19.32	19.37	19.27	20.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3620.01	3624.99	3630			
20	QPSK	1	1	19.23	19.31	19.27	20.0	0.0	
Channel				637168	641666	646168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3597.52	3624.99	3692.49			
15	QPSK	1	1	19.24	19.42	19.34	20.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3655	3624.99	3694.98			
10	QPSK	1	1	19.24	19.38	19.36	20.0	0.0	

Part270 n77 PC3&2 Ant4 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	20.14	20.20	20.10			
100	P12 BPSK	1	137	20.11	20.18	20.08	21.0		0.0
100	P12 BPSK	1	271	20.08	20.10	19.98			
100	P12 BPSK	135	0	20.14	20.14	20.01	21.0		0.0
100	P12 BPSK	135	69	20.08	20.13	20.06	21.0		0.0
100	P12 BPSK	135	138	20.00	20.04	19.85	21.0		0.0
100	P12 BPSK	270	0	20.10	20.11	20.07			
100	QPSK	1	1	20.15	20.23	20.08			
100	QPSK	1	137	20.09	20.21	20.09	21.0		0.0
100	QPSK	1	271	19.98	20.11	20.04			
100	QPSK	135	0	20.10	20.12	20.02	21.0		0.0
100	QPSK	135	69	20.09	20.20	20.14	21.0		0.0
100	QPSK	135	138	20.00	20.04	20.00	21.0		0.0
100	QPSK	270	0	20.03	20.14	20.05	21.0		0.0
100	16QAM	1	1	20.08	20.09	20.03	21.0		0.0
100	64QAM	1	1	19.83	19.94	19.85	21.0		0.0
100	256QAM	1	1	19.92	20.03	19.95	21.0		0.0
Channel				646668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.03	20.17	19.96	21.0		0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	19.99	20.20	20.00	21.0		0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.06	20.10	20.00	21.0		0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.10	20.09	20.01	21.0		0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.09	20.16	19.93	21.0		0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.07	20.11	19.94	21.0		0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	20.01	20.15	19.80	21.0		0.0
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.00	20.14	19.96	21.0		0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.06	20.13	20.00	21.0		0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.10	20.10	19.93	21.0		0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.03	20.11	19.97	21.0		0.0

Part27Q n77 PC3&2 Ant4 ECI2									
BW [MHz]	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	635001			
Frequency (MHz)									
100	P12 BPSK	1	1		20.26				
100	P12 BPSK	1	137				21.0	0.0	
100	P12 BPSK	1	271		20.07				
100	P12 BPSK	135	0		20.08		21.0	0.0	
100	P12 BPSK	135	69		20.03		21.0	0.0	
100	P12 BPSK	135	138		20.03		21.0	0.0	
100	P12 BPSK	270	0		20.20				
100	QPSK	1	1		20.26				
100	QPSK	1	137				21.0	0.0	
100	QPSK	1	271		20.18				
100	QPSK	135	0		20.08		21.0	0.0	
100	QPSK	135	69		20.23		21.0	0.0	
100	QPSK	135	138		20.10		21.0	0.0	
100	QPSK	270	0		20.17		21.0	0.0	
100	16QAM	1	1		20.12		21.0	0.0	
100	64QAM	1	1		19.99		21.0	0.0	
100	256QAM	1	1		20.00		21.0	0.0	
Channel				633000	633334	635001	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
90	QPSK	1	1	20.07	20.16	20.09	21.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.02	3500.01	3515.0			
80	QPSK	1	1	20.08	20.20	20.20	21.0	0.0	
Channel				632234	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3434.01	3500.01	3515.01			
70	QPSK	1	1	20.09	20.16	20.14	21.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3430.00	3500.01	3525.02			
60	QPSK	1	1	20.05	20.24	20.19	21.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	20.08	20.17	20.13	21.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	20.20	20.19	20.12	21.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	20.07	20.21	20.16	21.0	0.0	
Channel				630544	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	20.05	20.16	20.16	21.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3545			
20	QPSK	1	1	20.08	20.15	20.12	21.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	20.11	20.15	20.11	21.0	0.0	
Channel				630134	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	20.06	20.21	20.12	21.0	0.0	

Part27O n78 PC3 Ant4 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				3750					
Frequency (MHz)									
100	PI2 BPSK	1	1		20.11				
100	PI2 BPSK	1	137		20.09		21.0	0.0	
100	PI2 BPSK	1	271		19.91				
100	PI2 BPSK	135	0		20.02		21.0	0.0	
100	PI2 BPSK	135	69		19.98		21.0	0.0	
100	PI2 BPSK	135	138		19.86		21.0	0.0	
100	PI2 BPSK	270	0		19.92				
100	QPSK	1	1		20.16		21.0	0.0	
100	QPSK	1	137		20.05				
100	QPSK	1	271		20.02		21.0	0.0	
100	QPSK	135	0		20.04		21.0	0.0	
100	QPSK	135	69		20.11		21.0	0.0	
100	QPSK	135	138		19.94		21.0	0.0	
100	QPSK	270	0		20.03				
100	16QAM	1	1		20.00		21.0	0.0	
100	64QAM	1	1		19.93		21.0	0.0	
100	256QAM	1	1		18.51		19.5	1.5	
Channel				648688	650000	650334	Tune-up limit (dBm)		
Frequency (MHz)				3745.02	3750	3755.01	MPR (dB)		
90	QPSK	1	1	19.93	20.04	19.98	21.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)		
Frequency (MHz)				3740.01	3750	3760.02	MPR (dB)		
80	QPSK	1	1	20.00	20.13	20.00	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)		
Frequency (MHz)				3735	3750	3765	MPR (dB)		
70	QPSK	1	1	20.01	20.11	20.06	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)		
Frequency (MHz)				3730.02	3750	3770.01	MPR (dB)		
60	QPSK	1	1	20.00	20.04	20.06	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)		
Frequency (MHz)				3725.01	3750	3775.02	MPR (dB)		
50	QPSK	1	1	19.92	20.02	20.00	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)		
Frequency (MHz)				3720	3750	3780	MPR (dB)		
40	QPSK	1	1	20.03	20.11	20.06	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)		
Frequency (MHz)				3713.02	3750	3763.01	MPR (dB)		
30	QPSK	1	1	20.03	20.06	20.05	21.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)		
Frequency (MHz)				3712.5	3750	3767.5	MPR (dB)		
25	QPSK	1	1	20.03	20.11	20.03	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)		
Frequency (MHz)				3710.01	3750	3769.02	MPR (dB)		
20	QPSK	1	1	19.93	20.08	20.06	21.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)		
Frequency (MHz)				3707.52	3750	3762.51	MPR (dB)		
15	QPSK	1	1	19.93	20.06	20.06	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)		
Frequency (MHz)				3705	3750	3795	MPR (dB)		
10	QPSK	1	1	19.93	20.01	20.00	21.0	0.0	

Part27Q n78 PC3 Ant4 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				3500.01					
Frequency (MHz)									
100	PI2 BPSK	1	1		20.20				
100	PI2 BPSK	1	137		20.20		21.0	0.0	
100	PI2 BPSK	1	271		20.08				
100	PI2 BPSK	135	0		20.08		21.0	0.0	
100	PI2 BPSK	135	69		20.08		21.0	0.0	
100	PI2 BPSK	135	138		19.95		21.0	0.0	
100	PI2 BPSK	270	0		20.00				
100	QPSK	1	1		20.21		21.0	0.0	
100	QPSK	1	137		20.12				
100	QPSK	1	271		20.09				
100	QPSK	135	0		20.17		21.0	0.0	
100	QPSK	135	69		20.20		21.0	0.0	
100	QPSK	135	138		20.04		21.0	0.0	
100	QPSK	270	0		20.16				
100	16QAM	1	1		20.10		21.0	0.0	
100	64QAM	1	1		20.08		21.0	0.0	
100	256QAM	1	1		18.47		19.5	1.5	
Channel				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	20.11	20.12	20.04	21.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	19.94	20.08	20.00	21.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	19.94	19.94	19.86	21.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	19.93	20.03	19.92	21.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	19.92	20.02	19.88	21.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	20.11	20.10	19.85	21.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3465	3500.01	3533.02			
30	QPSK	1	1	19.92	20.07	19.84	21.0	0.0	
Channel				630668	633334	635934	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	19.95	20.00	19.86	21.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	19.95	19.97	19.87	21.0	0.0	
Channel				630500	633334	636188	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	20.01	20.10	19.91	21.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	20.06	19.98	19.87	21.0	0.0	

ISED_RSS-192 n77 PC2 Ant4 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				633334	636666	640000	21.0	0.0
Frequency (MHz)				3500.01	3549.99	3600		
100	PI2 BPSK	1	1	20.26	20.23	20.15	21.0	0.0
100	PI2 BPSK	1	137	20.21	20.05	20.08		
100	PI2 BPSK	1	271	20.07	19.93	20.01		
100	PI2 BPSK	135	0	20.08	20.06	19.95		
100	PI2 BPSK	135	69	20.03	20.01	19.93	21.0	0.0
100	PI2 BPSK	135	138	20.03	19.88	19.86	21.0	0.0
100	PI2 BPSK	270	0	20.20	20.04	20.11	21.0	0.0
100	QPSK	1	1	20.20	20.09	20.19		
100	QPSK	1	137	20.21	20.05	20.20		
100	QPSK	1	271	20.18	20.11	20.13		
100	QPSK	135	0	20.08	19.89	19.89	21.0	0.0
100	QPSK	135	69	20.23	20.15	20.15	21.0	0.0
100	QPSK	135	138	20.10	20.04	19.97	21.0	0.0
100	QPSK	270	0	20.17	19.98	20.07	21.0	0.0
100	16QAM	1	1	20.12	20.08	20.08		
100	64QAM	1	1	19.99	19.93	19.95		
100	256QAM	1	1	20.00	19.98	19.95		
Channel				633300	636666	640332	21.0	MPR
Frequency (MHz)				3495	3549.99	3604.98		
90	QPSK	1	1	20.07	20.01	20.08	21.0	0.0
Channel				632668	636666	640666	21.0	MPR
Frequency (MHz)				3490.02	3549.99	3606.99		
80	QPSK	1	1	20.09	20.07	20.07	21.0	0.0
Channel				632334	636666	641000	21.0	MPR
Frequency (MHz)				3485.01	3549.99	3615		
70	QPSK	1	1	20.09	19.99	20.10	21.0	0.0
Channel				632000	636666	641332	21.0	MPR
Frequency (MHz)				3480	3549.99	3619.98		
60	QPSK	1	1	20.05	20.02	20.01	21.0	0.0
Channel				631668	636666	641666	21.0	MPR
Frequency (MHz)				3475.02	3549.99	3624.99		
50	QPSK	1	1	20.06	19.95	20.15	21.0	0.0
Channel				631334	636666	642000	21.0	MPR
Frequency (MHz)				3470.01	3549.99	3630		
40	QPSK	1	1	20.08	19.91	20.13	21.0	0.0
Channel				631000	636666	642332	21.0	MPR
Frequency (MHz)				3465	3549.99	3634.99		
30	QPSK	1	1	20.07	19.94	20.08	21.0	0.0
Channel				630834	636666	642500	21.0	MPR
Frequency (MHz)				3462.51	3549.99	3637.5		
25	QPSK	1	1	20.05	20.04	20.05	21.0	0.0
Channel				630668	636666	642668	21.0	MPR
Frequency (MHz)				3460.02	3549.99	3639.99		
20	QPSK	1	1	20.08	19.93	20.03	21.0	0.0
Channel				630500	636666	642832	21.0	MPR
Frequency (MHz)				3457.5	3549.99	3642.48		
15	QPSK	1	1	20.11	20.07	20.00	21.0	0.0
Channel				630334	636666	643000	21.0	MPR
Frequency (MHz)				3455.01	3549.99	3645		
10	QPSK	1	1	20.06	20.02	20.13	21.0	0.0

ISED_RSS-192 n78 PC3 Ant4 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				633334	636666	640000	21.0	0.0
Frequency (MHz)				3500.01	3549.99	3600		
100	PI2 BPSK	1	1	20.11	20.09	20.10	21.0	0.0
100	PI2 BPSK	1	137	20.05	20.05	19.87		
100	PI2 BPSK	1	271	20.02	19.83	19.98		
100	PI2 BPSK	135	0	20.00	19.89	19.99		
100	PI2 BPSK	135	69	19.97	19.80	19.92	21.0	0.0
100	PI2 BPSK	135	138	19.95	19.92	19.87	21.0	0.0
100	PI2 BPSK	270	0	20.17	20.16	19.99	21.0	0.0
100	QPSK	1	1	20.20	20.13	20.01		
100	QPSK	1	137	20.13	20.12	20.04		
100	QPSK	1	271	19.98	19.82	19.85		
100	QPSK	135	0	20.05	20.02	19.88	21.0	0.0
100	QPSK	135	69	20.01	19.88	19.91	21.0	0.0
100	QPSK	135	138	19.98	19.74	19.75	21.0	0.0
100	QPSK	270	0	20.05	19.97	20.00	21.0	0.0
100	16QAM	1	1	20.07	20.06	20.02		
100	64QAM	1	1	19.96	19.90	19.93		
100	256QAM	1	1	19.96	19.84	19.87		
Channel				633000	636666	640332	21.0	MPR
Frequency (MHz)				3495	3549.99	3604.98		
90	QPSK	1	1	19.91	20.01	19.97	21.0	0.0
Channel				632668	636666	640666	21.0	MPR
Frequency (MHz)				3490.02	3549.99	3606.99		
80	QPSK	1	1	20.04	20.01	19.91	21.0	0.0
Channel				632334	636666	641000	21.0	MPR
Frequency (MHz)				3485.01	3549.99	3615		
70	QPSK	1	1	19.99	20.03	19.91	21.0	0.0
Channel				632000	636666	641332	21.0	MPR
Frequency (MHz)				3480	3549.99	3619.98		
60	QPSK	1	1	20.05	19.98	19.88	21.0	0.0
Channel				631668	636666	641666	21.0	MPR
Frequency (MHz)				3475.02	3549.99	3624.99		
50	QPSK	1	1	20.04	20.10	19.98	21.0	0.0
Channel				631334	636666	642000	21.0	MPR
Frequency (MHz)				3470.01	3549.99	3630		
40	QPSK	1	1	20.07	20.07	19.88	21.0	0.0
Channel				631000	636666	642332	21.0	MPR
Frequency (MHz)				3465	3549.99	3634.99		
30	QPSK	1	1	20.00	19.99	19.92	21.0	0.0
Channel				630834	636666	642500	21.0	MPR
Frequency (MHz)				3462.51	3549.99	3637.5		
25	QPSK	1	1	19.91	19.98	19.88	21.0	0.0
Channel				630668	636666	642668	21.0	MPR
Frequency (MHz)				3460.02	3549.99	3639.99		
20	QPSK	1	1	19.90	19.95	19.95	21.0	0.0
Channel				630500	636666	642832	21.0	MPR
Frequency (MHz)				3457.5	3549.99	3642.48		
15	QPSK	1	1	19.95	20.01	19.87	21.0	0.0
Channel				630334	636666	643000	21.0	MPR
Frequency (MHz)				3455.01	3549.99	3645		
10	QPSK	1	1	19.99	20.01	19.82	21.0	0.0



n48 Part96 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				640000	641666	643332			
Frequency (MHz)				3600	3624.99	3649.98			
100	PV2 BPSK	1	1	23.17	23.28	23.17	24.0	0.0	
100	PV2 BPSK	1	137	23.15	23.22	23.17			
100	PV2 BPSK	1	271	23.09	23.16	23.09			
100	PV2 BPSK	135	0	22.58	22.73	22.60	23.5	0.5	
100	PV2 BPSK	135	69	23.10	23.23	23.09	24.0	0.0	
100	PV2 BPSK	135	138	22.64	22.78	22.73	23.5	0.5	
100	PV2 BPSK	270	0	22.73	22.80	22.65	24.0	0.0	
100	QPSK	1	1	23.24	23.34	23.26			
100	QPSK	1	137	23.20	23.31	23.23			
100	QPSK	1	271	23.13	23.22	23.08	23.0	1.0	
100	QPSK	135	0	22.23	22.28	22.21			
100	QPSK	135	69	23.19	23.29	23.26			
100	QPSK	135	138	22.15	22.22	22.13	23.0	1.0	
100	QPSK	270	0	22.16	22.30	22.19	23.0	1.0	
100	16QAM	1	1	21.85	21.93	21.79			
100	64QAM	1	1	20.39	20.44	20.34	21.5	2.5	
100	256QAM	1	1	18.91	19.04	18.89	19.5	4.5	
Channel				636999	641666	643000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99			
90	QPSK	1	1	23.18	23.25	23.22	24.0	0.0	
Channel				638334	641666	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3590.01	3624.99	3660			
80	QPSK	1	1	23.11	23.21	23.12	24.0	0.0	
Channel				638999	641666	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3589.02	3624.99	3669.99			
60	QPSK	1	1	23.12	23.20	23.23	24.0	0.0	
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3625.01	3624.99	3675			
50	QPSK	1	1	23.07	23.20	23.18	24.0	0.0	
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3570	3624.99	3679.98			
40	QPSK	1	1	23.09	23.24	23.21	24.0	0.0	
Channel				637666	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	23.12	23.19	23.16	24.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3550.01	3624.99	3690			
20	QPSK	1	1	22.08	22.22	22.11	24.0	0.0	
Channel				637168	641666	646168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	22.06	22.16	22.05	24.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3655	3624.99	3694.98			
10	QPSK	1	1	22.10	22.22	22.09	24.0	0.0	

Part270 n77 PC3 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	22.77	22.87	22.82	24.0	0.0	
100	PV2 BPSK	1	137	22.68	22.82	22.78			
100	PV2 BPSK	1	271	22.65	22.76	22.71			
100	PV2 BPSK	135	0	22.70	22.75	22.63	24.0	0.0	
100	PV2 BPSK	135	69	22.78	22.88	22.78	24.0	0.0	
100	PV2 BPSK	135	138	22.72	22.77	22.66	24.0	0.0	
100	PV2 BPSK	270	0	22.68	22.82	22.77	24.0	0.0	
100	QPSK	1	1	22.81	22.91	22.85			
100	QPSK	1	137	22.73	22.83	22.72			
100	QPSK	1	271	22.64	22.77	22.68	24.0	0.0	
100	QPSK	135	0	22.65	22.80	22.65			
100	QPSK	135	69	22.82	22.88	22.78			
100	QPSK	135	138	22.62	22.76	22.64	24.0	0.0	
100	QPSK	270	0	22.74	22.83	22.72	24.0	0.0	
100	16QAM	1	1	22.44	22.53	22.41			
100	64QAM	1	1	22.37	22.48	22.36	24.0	0.0	
100	256QAM	1	1	21.40	21.48	21.43	22.5	1.5	
Channel				646668	650000	663334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.44	22.47	22.42	24.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.44	22.49	22.45	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.39	22.57	22.51	24.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.42	22.53	22.48	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.40	22.51	22.49	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.42	22.49	22.51	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	22.38	22.56	22.44	24.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.41	22.50	22.49	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.45	22.48	22.49	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.38	22.53	22.49	24.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.44	22.48	22.43	24.0	0.0	

Part270 n77 PC2 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	25.49	25.64	25.53	27.0	0.0	
100	PV2 BPSK	1	137	25.50	25.59	25.46			
100	PV2 BPSK	1	271	25.41	25.52	25.45			
100	PV2 BPSK	135	0	25.01	25.13	25.05	26.5	0.5	
100	PV2 BPSK	135	69	25.47	25.62	25.55	27.0	0.0	
100	PV2 BPSK	135	138	25.00	25.06	24.92	26.5	0.5	
100	PV2 BPSK	270	0	25.06	25.11	24.99	27.0	0.0	
100	QPSK	1	1	25.83	25.89	25.77			
100	QPSK	1	137	25.58	25.68	25.50			
100	QPSK	1	271	25.42	25.56	25.42	26.0	1.0	
100	QPSK	135	0	24.46	24.61	24.55			
100	QPSK	135	69	25.61	25.73	25.67			
100	QPSK	135	138	24.45	24.56	24.52	26.0	1.0	
100	QPSK	270	0	24.58	24.58	24.54	26.0	1.0	
100	16QAM	1	1	24.23	24.24	24.21			
100	64QAM	1	1	22.62	22.72	22.62			
100	256QAM	1	1	21.34	21.44	21.30	22.5	4.5	
Channel				650000	650000	650000			
Frequency (MHz)				3840	3930	4015	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	25.59	25.64	25.46	27.0	0.0	
Channel				640334	650000	660668			
Frequency (MHz)				3740.51	3840	3940.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	25.52	25.59	25.51	27.0	0.0	
Channel				650000	650000	650000			
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)	
75	QPSK	1	1	25.57	25.56	25.46	27.0	0.0	
Channel				648668	650000	653334			
Frequency (MHz)				3748.02	3840	3940.01	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	25.53	25.60	25.48	27.0	0.0	
Channel				643334	650000	663668			
Frequency (MHz)				3725.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	25.56	25.56	25.46	27.0	0.0	
Channel				650000	650000	650000			
Frequency (MHz)				3720	3840	3950	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	25.49	25.61	25.54	27.0	0.0	
Channel				647668	650000	664334			
Frequency (MHz)				3715.02	3840	3955.01	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	25.58	25.61	25.42	27.0	0.0	
Channel				647000	650000	664500			
Frequency (MHz)				3712.5	3840	3967.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	25.55	25.62	25.49	27.0	0.0	
Channel				647334	650000	664668			
Frequency (MHz)				3710.51	3840	3970.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	25.80	25.59	25.46	27.0	0.0	
Channel				647168	650000	664834			
Frequency (MHz)				3707.52	3840	3972.51	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	25.50	25.54	25.47	27.0	0.0	
Channel				647000	650000	664500			
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	25.58	25.65	25.43	27.0	0.0	

Part27Q n77 PC3 Ant5 Default

BW [MHz]	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		23.20		24.0	0.0
100	PI2 BPSK	1	137		23.15			
100	PI2 BPSK	1	271		22.98			
100	PI2 BPSK	135	0		23.13			
100	PI2 BPSK	135	69		23.16		24.0	0.0
100	PI2 BPSK	135	138		22.98		24.0	0.0
100	PI2 BPSK	270	0		23.14			
100	QPSK	1	1		23.23		24.0	0.0
100	QPSK	1	137		23.15			
100	QPSK	1	271		22.98		24.0	0.0
100	QPSK	135	0		23.10			
100	QPSK	135	69		23.17			
100	QPSK	135	138		23.01			
100	QPSK	270	0		23.13		24.0	0.0
100	16QAM	1	1		22.98		24.0	0.0
100	64QAM	1	1		23.03		24.0	0.0
100	256QAM	1	1		22.07		22.5	1.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.08	23.11	23.04	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.02	3500.01	3510		
80	QPSK	1	1	23.10	23.15	23.06	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.06	23.17	23.10	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.13	23.12	23.02	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3505		
50	QPSK	1	1	23.15	23.10	23.04	24.0	0.0
Channel				3470.01	3500.01	3530.01		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.08	23.15	23.07	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500.01	3532.02		
30	QPSK	1	1	23.06	23.17	23.07	24.0	0.0
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	23.06	23.08	23.00	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.14	23.17	23.03	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	23.09	23.15	23.01	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	23.09	23.14	23.08	24.0	0.0

Part27Q n77 PC2 Ant5 Default

BW [MHz]	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		26.25		27.0	0.0
100	PI2 BPSK	1	137		26.19			
100	PI2 BPSK	1	271		26.11			
100	PI2 BPSK	135	0		25.76			
100	PI2 BPSK	135	69		26.20		27.0	0.0
100	PI2 BPSK	135	138		25.63		26.5	0.5
100	PI2 BPSK	270	0		25.89			
100	QPSK	1	1		26.31		27.0	0.0
100	QPSK	1	137		26.26			
100	QPSK	1	271		26.21		26.0	1.0
100	QPSK	135	0		25.22			
100	QPSK	135	69		26.27			
100	QPSK	135	138		25.26			
100	QPSK	270	0		25.33		26.0	1.0
100	16QAM	1	1		25.09		26.0	1.0
100	64QAM	1	1		23.52		24.5	2.5
100	256QAM	1	1		22.26		22.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	26.15	26.26	26.14	27.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	26.17	26.21	26.12	27.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	26.21	26.25	26.14	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	26.14	26.17	26.08	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3505		
50	QPSK	1	1	26.16	26.21	26.14	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	26.19	26.27	26.10	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500.01	3532.02		
30	QPSK	1	1	26.25	26.24	26.12	27.0	0.0
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	26.24	26.18	26.19	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	26.20	26.25	26.15	27.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	26.21	26.22	26.19	27.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	26.14	26.28	26.17	27.0	0.0

Part270 n78 PC3 Ant5 Default

BW [MHz]	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)				3750				
100	PI2 BPSK	1	1		22.84			
100	PI2 BPSK	1	137		22.78		24.0	0.0
100	PI2 BPSK	1	271		22.85			
100	PI2 BPSK	135	0		22.43		23.5	0.5
100	PI2 BPSK	135	69		22.80		24.0	0.0
100	PI2 BPSK	135	138		22.37		23.5	0.5
100	PI2 BPSK	270	0		22.44			
100	QPSK	1	1		22.38		24.0	0.0
100	QPSK	1	137		22.81			
100	QPSK	1	271		22.74			
100	QPSK	135	0		22.04		23.0	1.0
100	QPSK	135	69		22.82		24.0	0.0
100	QPSK	135	138		21.98		23.0	1.0
100	QPSK	270	0		22.03			
100	16QAM	1	1		21.89		23.0	1.0
100	64QAM	1	1		20.22		21.5	2.5
100	256QAM	1	1		18.82		19.5	4.5
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.55	22.84	22.49	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.58	22.61	22.53	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.52	22.63	22.47	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.57	22.58	22.51	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.53	22.85	22.56	24.0	0.0
Channel				3720	3750	3780		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.57	22.80	22.47	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3795.01		
30	QPSK	1	1	22.50	22.60	22.53	24.0	0.0
Channel				647000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	22.52	22.58	22.48	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.54	22.84	22.49	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.48	22.55	22.48	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.57	22.82	22.51	24.0	0.0

Part27Q n78 PC3 Ant5 Default

BW [MHz]	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)				3500.01				
100	PI2 BPSK	1	1		23.27			
100	PI2 BPSK	1	137		23.19		24.0	0.0
100	PI2 BPSK	1	271		23.23			
100	PI2 BPSK	135	0		22.72		23.5	0.5
100	PI2 BPSK	135	69		23.24		24.0	0.0
100	PI2 BPSK	135	138		22.66		23.5	0.5
100	PI2 BPSK	270	0		22.70			
100	QPSK	1	1		23.30		24.0	0.0
100	QPSK	1	137		23.28			
100	QPSK	1	271		23.26			
100	QPSK	135	0		22.31		23.0	1.0
100	QPSK	135	69		23.28		24.0	0.0
100	QPSK	135	138		22.32		23.0	1.0
100	QPSK	270	0		22.35			
100	16QAM	1	1		22.27		23.0	1.0
100	64QAM	1	1		20.82		21.5	2.5
100	256QAM	1	1		18.96		19.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.25	23.25	22.83	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.14	23.20	22.89	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.18	23.26	22.92	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.14	23.18	22.87	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.17	23.30	22.94	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.17	23.28	22.83	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.18	23.19	22.89	24.0	0.0
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	23.19	23.23	22.93	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.24	23.19	22.91	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	23.19	23.27	22.84	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	23.23	23.29	22.87	24.0	0.0



ISED_RSS-192 n77 PC3 Ant5 Default									
BW [MHz]	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	636666	640000			
Frequency (MHz)				3500.01	3549.99	3600			
100	P12 BPSK	1	1	23.20	23.15	22.99			
100	P12 BPSK	1	137	23.15	23.09	22.99			
100	P12 BPSK	1	271	22.99	22.93	22.88	24.0	0.0	
100	P12 BPSK	135	0	23.13	23.08	22.96	24.0	0.0	
100	P12 BPSK	135	69	23.16	23.01	22.97	24.0	0.0	
100	P12 BPSK	135	138	22.98	22.77	22.99	24.0	0.0	
100	P12 BPSK	270	0	23.14	23.15	22.85			
100	QPSK	1	1	23.23	23.16	23.09			
100	QPSK	1	137	23.15	23.02	23.00	24.0	0.0	
100	QPSK	1	271	22.98	22.76	22.85			
100	QPSK	135	0	23.10	22.97	23.00	24.0	0.0	
100	QPSK	135	69	23.17	23.09	23.00	24.0	0.0	
100	QPSK	135	138	23.01	23.03	22.86	24.0	0.0	
100	QPSK	270	0	23.13	22.94	23.00			
100	16QAM	1	1	22.98	22.99	22.92	24.0	0.0	
100	64QAM	1	1	23.03	22.97	23.03	24.0	0.0	
100	256QAM	1	1	22.07	22.07	21.93	22.5	1.5	
Channel				633000	636666	640332	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	23.08	23.15	23.07	24.0	0.0	
Channel				632668	636666	640666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3450.02	3549.99	3600.99			
80	QPSK	1	1	23.10	23.05	23.07	24.0	0.0	
Channel				632334	636666	641000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3549.99	3615			
70	QPSK	1	1	23.06	23.09	22.91	24.0	0.0	
Channel				632000	636666	641332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3549.99	3619.98			
60	QPSK	1	1	23.13	23.08	23.07	24.0	0.0	
Channel				631668	636666	641666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3549.99	3624.99			
50	QPSK	1	1	23.15	23.07	22.97	24.0	0.0	
Channel				631334	636666	642000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3549.99	3630			
40	QPSK	1	1	23.08	22.99	23.04	24.0	0.0	
Channel				631000	636666	642332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3549.99	3634.98			
30	QPSK	1	1	23.08	23.12	23.01	24.0	0.0	
Channel				630634	636666	642500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3549.99	3637.5			
25	QPSK	1	1	23.06	23.16	23.01	24.0	0.0	
Channel				630368	636666	642666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3549.99	3639.99			
20	QPSK	1	1	23.14	23.00	22.96	24.0	0.0	
Channel				630000	636666	642832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3549.99	3642.48			
15	QPSK	1	1	23.09	23.12	23.03	24.0	0.0	
Channel				630234	636666	643000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3549.99	3645			
10	QPSK	1	1	23.09	23.17	22.96	24.0	0.0	

ISED_RSS-192 n77 PC2 Ant5 ECI2									
BW [MHz]	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	636666	640000			
Frequency (MHz)				3500.01	3549.99	3600			
100	P12 BPSK	1	1	23.80	23.76	23.69			
100	P12 BPSK	1	137	23.78	23.67	23.67	24.5	0.0	
100	P12 BPSK	1	271	23.69	23.64	23.66			
100	P12 BPSK	135	0	23.77	23.66	23.71	24.5	0.0	
100	P12 BPSK	135	69	23.74	23.64	23.67	24.5	0.0	
100	P12 BPSK	135	138	23.64	23.54	23.62	24.5	0.0	
100	P12 BPSK	270	0	23.65	23.54	23.69			
100	QPSK	1	1	23.85	23.73	23.78			
100	QPSK	1	137	23.81	23.73	23.74	24.5	0.0	
100	QPSK	1	271	23.70	23.61	23.65			
100	QPSK	135	0	23.70	23.66	23.59	24.5	0.0	
100	QPSK	135	69	23.77	23.68	23.70	24.5	0.0	
100	QPSK	135	138	23.61	23.57	23.47	24.5	0.0	
100	QPSK	270	0	23.78	23.73	23.63			
100	16QAM	1	1	23.65	23.62	23.59	24.5	0.0	
100	64QAM	1	1	23.52	23.46	23.46	24.5	0.0	
100	256QAM	1	1	22.28	22.24	22.18	22.5	2.0	
Channel				633000	636666	640332	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	23.81	23.58	23.58	24.5	0.0	
Channel				632668	636666	640666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3549.99	3600.99			
80	QPSK	1	1	23.79	23.73	23.77	24.5	0.0	
Channel				632334	636666	641000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3549.99	3615			
70	QPSK	1	1	23.77	23.58	23.64	24.5	0.0	
Channel				632000	636666	641332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3549.99	3619.98			
60	QPSK	1	1	23.78	23.62	23.67	24.5	0.0	
Channel				631668	636666	641666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3549.99	3624.99			
50	QPSK	1	1	23.74	23.71	23.73	24.5	0.0	
Channel				631334	636666	642000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3549.99	3630			
40	QPSK	1	1	23.82	23.63	23.80	24.5	0.0	
Channel				631000	636666	642332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3549.99	3634.98			
30	QPSK	1	1	23.78	23.59	23.63	24.5	0.0	
Channel				630634	636666	642500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3549.99	3637.5			
25	QPSK	1	1	23.81	23.71	23.84	24.5	0.0	
Channel				630368	636666	642666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3549.99	3639.99			
20	QPSK	1	1	23.77	23.69	23.74	24.5	0.0	
Channel				630000	636666	642832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3549.99	3642.48			
15	QPSK	1	1	23.83	23.58	23.65	24.5	0.0	
Channel				630234	636666	643000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3549.99	3645			
10	QPSK	1	1	23.74	23.63	23.61	24.5	0.0	

ISED_RSS-192 n78 PC3 Ant5 Default									
BW [MHz]	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	636666	640000			
Frequency (MHz)				3500.01	3549.99	3600			
100	P12 BPSK	1	1	23.27	23.24	23.19			
100	P12 BPSK	1	137	23.19	23.18	23.19	24.0	0.0	
100	P12 BPSK	1	271	23.23	23.08	23.06			
100	P12 BPSK	135	0	22.72	22.50	22.82	23.5	0.5	
100	P12 BPSK	135	69	23.24	23.15	23.16	24.0	0.0	
100	P12 BPSK	135	138	22.86	22.85	22.62	23.5	0.5	
100	P12 BPSK	270	0	22.70	22.89	22.50			
100	QPSK	1	1	23.33	23.17	23.26			
100	QPSK	1	137	23.28	23.18	23.21	24.0	0.0	
100	QPSK	1	271	23.26	23.26	23.13			
100	QPSK	135	0	22.31	22.16	22.28	23.0	1.0	
100	QPSK	135	69	23.28	23.07	23.16	24.0	0.0	
100	QPSK	135	138	22.32	22.19	22.33	23.0	1.0	
100	QPSK	270	0	22.38	22.38	22.33			
100	16QAM	1	1	22.27	22.08	22.22	23.0	1.0	
100	64QAM	1	1	20.82	20.73	20.80	21.5	2.5	
100	256QAM	1	1	18.96	18.94	18.79	19.5	4.5	
Channel				633000	636966	640032	Tune-up limit	MPR	
Frequency (MHz)				3486	3549.99	3604.98	(dBm)	(dB)	
90	QPSK	1	1	23.25	23.08	23.24	24.0	0.0	
Channel				632668	636666	640666	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3549.99	3609.99	(dBm)	(dB)	
80	QPSK	1	1	23.14	23.01	23.22	24.0	0.0	
Channel				632334	636666	641000	Tune-up limit	MPR	
Frequency (MHz)				3486.01	3549.99	3615	(dBm)	(dB)	
70	QPSK	1	1	23.18	23.01	23.23	24.0	0.0	
Channel				632000	636666	641332	Tune-up limit	MPR	
Frequency (MHz)				3480	3549.99	3616.66	(dBm)	(dB)	
60	QPSK	1	1	23.14	23.01	23.08	24.0	0.0	
Channel				631668	636666	641666	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3549.99	3624.99	(dBm)	(dB)	
50	QPSK	1	1	23.17	23.16	23.15	24.0	0.0	
Channel				631334	636666	642000	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3549.99	3630	(dBm)	(dB)	
40	QPSK	1	1	23.17	23.05	23.23	24.0	0.0	
Channel				631000	636666	642332	Tune-up limit	MPR	
Frequency (MHz)				3463	3549.99	3634.33	(dBm)	(dB)	
30	QPSK	1	1	23.16	23.01	23.10	24.0	0.0	
Channel				630834	636666	642600	Tune-up limit	MPR	
Frequency (MHz)				3462.51	3549.99	3637.5	(dBm)	(dB)	
25	QPSK	1	1	23.19	23.04	23.23	24.0	0.0	
Channel				630668	636666	642666	Tune-up limit	MPR	
Frequency (MHz)				3460.65	3549.99	3638.99	(dBm)	(dB)	
20	QPSK	1	1	23.24	22.97	23.17	24.0	0.0	
Channel				630500	636666	642832	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3549.99	3642.48	(dBm)	(dB)	
15	QPSK	1	1	23.19	23.14	23.11	24.0	0.0	
Channel				631332	636666	643000	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3549.99	3645	(dBm)	(dB)	
10	QPSK	1	1	23.23	23.12	23.10	24.0	0.0	

n41 PC3&2 Ant6 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				500202	518598	539098	21.0	0.0
Frequency (MHz)				2548.01	2592.99	2640		
100	PV2 BPSK	1	1	19.72	19.63	19.59	21.0	0.0
100	PV2 BPSK	1	137	19.64	19.79	19.61		
100	PV2 BPSK	1	271	19.43	19.76	19.98	21.0	0.0
100	PV2 BPSK	135	0	19.75	19.69	19.69		
100	PV2 BPSK	135	69	19.61	19.59	19.48	21.0	0.0
100	PV2 BPSK	135	138	19.50	19.62	19.53		
100	PV2 BPSK	270	0	19.57	19.72	19.54	21.0	0.0
100	QPSK	1	1	19.49	19.92	19.50		
100	QPSK	1	137	19.50	19.67	19.48	21.0	0.0
100	QPSK	1	271	19.55	19.78	19.71		
100	QPSK	135	0	19.49	19.72	19.66	21.0	0.0
100	QPSK	135	69	19.59	19.90	19.75		
100	QPSK	135	138	19.55	19.67	19.77	21.0	0.0
100	QPSK	270	0	19.64	19.73	19.70		
100	16QAM	1	1	19.52	19.63	19.61	21.0	0.0
100	64QAM	1	1	19.77	19.66	19.59		
100	256QAM	1	1	19.43	19.77	19.56	21.0	0.0
Channel				500202	518598	539998		
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.82	19.73	19.54	21.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2643.99	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.63	19.82	19.60	21.0	0.0
Channel				506202	518598	531098		
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.58	19.66	19.77	21.0	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.77	19.71	19.65	21.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.98	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.71	19.78	19.72	21.0	0.0
Channel				503202	518598	534098		
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.55	19.83	19.72	21.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2714.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.65	19.80	19.67	21.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.78	19.75	19.55	21.0	0.0
Channel				500700	518598	536498		
Frequency (MHz)				2501.5	2592.99	2682.48	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.56	19.78	19.75	21.0	0.0
Channel				500202	518598	537098		
Frequency (MHz)				2501.01	2592.99	2685	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.61	19.72	19.67	21.0	0.0
Channel								

n48 Part96 Ant7 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				640000	641666	643332		
Frequency (MHz)				3600	3624.99	3649.98		
100	PV2 BPSK	1	1	16.17	16.27	16.12		
100	PV2 BPSK	1	137	16.12	16.20	16.22	17.5	0.0
100	PV2 BPSK	1	271	16.16	16.23	16.13		
100	PV2 BPSK	135	0	15.98	16.20	16.16	17.5	0.0
100	PV2 BPSK	135	69	16.21	16.20	16.32	17.5	0.0
100	PV2 BPSK	135	138	15.89	15.98	16.07	17.5	0.0
100	PV2 BPSK	270	0	16.11	16.19	16.11		
100	QPSK	1	1	16.37	16.49	16.35		
100	QPSK	1	137	16.37	16.34	16.38	17.5	0.0
100	QPSK	1	271	16.15	16.23	16.08		
100	QPSK	135	0	16.11	16.09	16.22	17.5	0.0
100	QPSK	135	69	16.31	16.42	16.14	17.5	0.0
100	QPSK	135	138	16.06	16.23	16.15		
100	QPSK	270	0	16.08	16.35	16.21	17.5	0.0
100	16QAM	1	1	16.08	16.24	15.88	17.5	0.0
100	64QAM	1	1	16.15	16.06	16.20	17.5	0.0
100	256QAM	1	1	16.33	16.41	16.26	17.5	0.0
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3595.02	3624.99	3654.99		
90	QPSK	1	1	16.13	16.25	16.21	17.5	0.0
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3590.01	3624.99	3650		
80	QPSK	1	1	16.14	16.19	16.20	17.5	0.0
Channel				638668	641666	644666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3580.02	3624.99	3666.99		
60	QPSK	1	1	16.25	16.35	16.25	17.5	0.0
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3575.01	3624.99	3675		
50	QPSK	1	1	16.27	16.36	16.22	17.5	0.0
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3570	3624.99	3679.98		
40	QPSK	1	1	16.32	16.29	16.29	17.5	0.0
Channel				637668	641666	645556	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	16.22	16.32	16.30	17.5	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	16.19	16.40	16.19	17.5	0.0
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.52	3624.99	3692.49		
15	QPSK	1	1	16.26	16.18	16.23	17.5	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3545	3624.99	3694.98		
10	QPSK	1	1	16.33	16.18	16.31	17.5	0.0

Part270 n77 PC2&PC3 Ant7 ECI2									
BW [MHz]	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)				3795	3840	3930	16.8	0.0	
100	PI2 BPSK	1	1	15.52	15.64	15.58			
100	PI2 BPSK	1	137	15.57	15.63	15.58			
100	PI2 BPSK	1	271	15.45	15.46	15.44			
100	PI2 BPSK	135	0	15.64	15.66	15.46	16.8	0.0	
100	PI2 BPSK	135	69	15.61	15.58	15.46	16.8	0.0	
100	PI2 BPSK	135	138	15.36	15.47	15.47	16.8	0.0	
100	PI2 BPSK	270	0	15.61	15.62	15.51			
100	QPSK	1	1	15.61	15.67	15.48	16.8	0.0	
100	QPSK	1	137	15.52	15.57	15.41			
100	QPSK	1	271	15.61	15.66	15.53			
100	QPSK	135	0	15.50	15.55	15.47			
100	QPSK	135	69	15.43	15.45	15.41	16.8	0.0	
100	QPSK	135	138	15.46	15.41	15.26	16.8	0.0	
100	QPSK	270	0	15.47	15.54	15.38			
100	16QAM	1	1	15.53	15.52	15.29	16.8	0.0	
100	64QAM	1	1	15.52	15.60	15.63	16.8	0.0	
100	256QAM	1	1	15.42	15.55	15.48	16.8	0.0	
Channel				649668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.48	15.62	15.42	16.8	0.0	
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.57	15.57	15.33	16.8	0.0	
Channel				645000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.63	15.61	15.37	16.8	0.0	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3729.02	3840	3950.01			
60	QPSK	1	1	15.62	15.48	15.42	16.8	0.0	
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.48	15.48	15.39	16.8	0.0	
Channel				645000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.52	15.55	15.33	16.8	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.54	15.47	15.30	16.8	0.0	
Channel				647000	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	15.48	15.63	15.33	16.8	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.46	15.65	15.27	16.8	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.43	15.48	15.29	16.8	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.63	15.61	15.44	16.8	0.0	

Part27Q n77 PC2&PC3 Ant7 ECI2									
BW [MHz]	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	633334			
Frequency (MHz)					3500.01		16.8	0.0	
100	PI2 BPSK	1	1		15.76				
100	PI2 BPSK	1	137		15.62				
100	PI2 BPSK	1	271		15.68				
100	PI2 BPSK	135	0		15.22		16.8	0.0	
100	PI2 BPSK	135	69		15.64		16.8	0.0	
100	PI2 BPSK	135	138		15.26		16.8	0.0	
100	PI2 BPSK	270	0		15.18				
100	QPSK	1	1		15.85		16.8	0.0	
100	QPSK	1	137		15.67				
100	QPSK	1	271		15.46				
100	QPSK	135	0		15.72				
100	QPSK	135	69		15.82		16.8	0.0	
100	QPSK	135	138		15.80		16.8	0.0	
100	QPSK	270	0		15.68				
100	16QAM	1	1		15.75		16.8	0.0	
100	64QAM	1	1		15.82		16.8	0.0	
100	256QAM	1	1		15.76		16.8	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	15.54	15.58	15.30	16.8	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	15.55	15.49	15.40	16.8	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	15.44	15.68	15.38	16.8	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	15.45	15.60	15.30	16.8	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	15.61	15.57	15.33	16.8	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	15.48	15.47	15.50	16.8	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	15.47	15.51	15.38	16.8	0.0	
Channel				630634	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	15.62	15.63	15.34	16.8	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	15.45	15.47	15.41	16.8	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	15.44	15.54	15.48	16.8	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	15.47	15.69	15.31	16.8	0.0	

Part27O n78 PC3 Ant7 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				650000			16.5	0.0			
Frequency (MHz)				3750							
100	PI2 BPSK	1	1	14.76							
100	PI2 BPSK	1	137	14.75							
100	PI2 BPSK	1	271	14.54			16.5	0.0			
100	PI2 BPSK	135	0	14.70							
100	PI2 BPSK	135	69	14.66							
100	PI2 BPSK	135	138	14.60							
100	PI2 BPSK	270	0	14.73			16.5	0.0			
100	QPSK	1	1	14.80							
100	QPSK	1	137	14.76							
100	QPSK	1	271	14.75							
100	QPSK	135	0	14.67			16.5	0.0			
100	QPSK	135	69	14.77							
100	QPSK	135	138	14.72							
100	QPSK	270	0	14.74							
100	16QAM	1	1	14.59			16.5	0.0			
100	64QAM	1	1	14.72							
100	256QAM	1	1	14.70							
Channel				64968	65000	65034	Tune-up limit (dBm)				
Frequency (MHz)				3745.02	3750	3755.01	MPR (dB)				
90	QPSK	1	1	14.78	14.60	14.67	16.5	0.0			
Channel				649334	650000	650668	Tune-up limit (dB)				
Frequency (MHz)				3740.01	3750	3760.02	MPR (dB)				
80	QPSK	1	1	14.66	14.70	14.75	16.5	0.0			
Channel				649000	650000	651000	Tune-up limit (dBm)				
Frequency (MHz)				3735	3750	3765	MPR (dB)				
70	QPSK	1	1	14.62	14.79	14.62	16.5	0.0			
Channel				648668	650000	651334	Tune-up limit (dBm)				
Frequency (MHz)				3730.02	3750	3770.01	MPR (dB)				
60	QPSK	1	1	14.69	14.79	14.65	16.5	0.0			
Channel				648334	650000	651668	Tune-up limit (dBm)				
Frequency (MHz)				3725.01	3750	3775.02	MPR (dB)				
50	QPSK	1	1	14.59	14.78	14.63	16.5	0.0			
Channel				648000	650000	652000	Tune-up limit (dBm)				
Frequency (MHz)				3720	3750	3780	MPR (dB)				
40	QPSK	1	1	14.62	14.71	14.75	16.5	0.0			
Channel				647668	650000	652334	Tune-up limit (dB)				
Frequency (MHz)				3715.02	3750	3765.01	MPR (dB)				
30	QPSK	1	1	14.71	14.74	14.79	16.5	0.0			
Channel				647500	650000	652500	Tune-up limit (dBm)				
Frequency (MHz)				3712.5	3750	3767.5	MPR (dB)				
25	QPSK	1	1	14.72	14.73	14.66	16.5	0.0			
Channel				647334	650000	652668	Tune-up limit (dBm)				
Frequency (MHz)				3710.01	3750	3760.02	MPR (dB)				
20	QPSK	1	1	14.73	14.67	14.69	16.5	0.0			
Channel				647168	650000	652834	Tune-up limit (dBm)				
Frequency (MHz)				3707.52	3750	3762.51	MPR (dB)				
15	QPSK	1	1	14.70	14.72	14.68	16.5	0.0			
Channel				647000	650000	653000	Tune-up limit (dBm)				
Frequency (MHz)				3705	3750	3795	MPR (dB)				
10	QPSK	1	1	14.61	14.66	14.63	16.5	0.0			

Part27Q n78 PC3 Ant7 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				63000			16.5	0.0			
Frequency (MHz)				3500.01							
100	PI2 BPSK	1	1	15.42							
100	PI2 BPSK	1	137	15.23							
100	PI2 BPSK	1	271	15.16			16.5	0.0			
100	PI2 BPSK	135	0	15.36							
100	PI2 BPSK	135	69	15.31							
100	PI2 BPSK	135	138	15.44							
100	PI2 BPSK	270	0	14.53			16.5	0.0			
100	QPSK	1	1	15.45							
100	QPSK	1	137	15.30							
100	QPSK	1	271	15.27							
100	QPSK	135	0	15.34			16.5	0.0			
100	QPSK	135	69	15.41							
100	QPSK	135	138	15.34							
100	QPSK	270	0	15.35							
100	16QAM	1	1	15.30			16.5	0.0			
100	64QAM	1	1	15.42							
100	256QAM	1	1	15.36							
Channel				633000	633334	633668	Tune-up limit (dBm)				
Frequency (MHz)				3495	3500.01	3505.02	MPR (dB)				
90	QPSK	1	1	15.33	15.43	15.36	16.5	0.0			
Channel				632668	633334	634000	Tune-up limit (dBm)				
Frequency (MHz)				3490.02	3500.01	3510	MPR (dB)				
80	QPSK	1	1	15.29	15.42	15.40	16.5	0.0			
Channel				632334	633334	634334	Tune-up limit (dBm)				
Frequency (MHz)				3485.01	3500.01	3515.01	MPR (dB)				
70	QPSK	1	1	15.25	15.39	15.30	16.5	0.0			
Channel				632000	633334	634668	Tune-up limit (dBm)				
Frequency (MHz)				3480	3500.01	3520.02	MPR (dB)				
60	QPSK	1	1	15.26	15.35	15.32	16.5	0.0			
Channel				631668	633334	635000	Tune-up limit (dBm)				
Frequency (MHz)				3475.02	3500.01	3525	MPR (dB)				
50	QPSK	1	1	15.25	15.35	15.34	16.5	0.0			
Channel				631334	633334	635334	Tune-up limit (dBm)				
Frequency (MHz)				3470.01	3500.01	3530.01	MPR (dB)				
40	QPSK	1	1	15.33	15.34	15.31	16.5	0.0			
Channel				631000	633334	635668	Tune-up limit (dB)				
Frequency (MHz)				3465	3500.01	3535.02	MPR (dB)				
30	QPSK	1	1	15.26	15.36	15.33	16.5	0.0			
Channel				630668	633334	635934	Tune-up limit (dBm)				
Frequency (MHz)				3462.51	3500.01	3537.51	MPR (dB)				
25	QPSK	1	1	15.35	15.40	15.34	16.5	0.0			
Channel				630668	633334	636000	Tune-up limit (dBm)				
Frequency (MHz)				3460.02	3500.01	3540	MPR (dB)				
20	QPSK	1	1	15.33	15.41	15.30	16.5	0.0			
Channel				630500	633334	636168	Tune-up limit (dBm)				
Frequency (MHz)				3457.5	3500.01	3542.52	MPR (dB)				
15	QPSK	1	1	15.29	15.43	15.39	16.5	0.0			
Channel				630334	633334	636334	Tune-up limit (dBm)				
Frequency (MHz)				3455.01	3500.01	3545.01	MPR (dB)				
10	QPSK	1	1	15.26	15.38	15.31	16.5	0.0			

ISED_RSS-192 n77 PC3&PC2 Ant7 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				63333.4	63666	64000			
Frequency (MHz)				3500.01	3549.99	3600			
100	Pi/2 BPSK	1	1	15.76	15.74	15.61			
100	Pi/2 BPSK	1	137	15.62	15.46	15.53	16.8	0.0	
100	Pi/2 BPSK	1	271	15.68	15.68	15.58			
100	Pi/2 BPSK	135	0	15.22	15.15	15.12	16.8	0.0	
100	Pi/2 BPSK	135	69	15.64	15.48	15.45	16.8	0.0	
100	Pi/2 BPSK	135	138	15.26	15.26	15.24	16.8	0.0	
100	Pi/2 BPSK	270	0	15.18	15.03	15.10			
100	QPSK	1	1	15.85	15.67	15.74			
100	QPSK	1	137	15.67	15.58	15.63	16.8	0.0	
100	QPSK	1	271	15.46	15.26	15.33			
100	QPSK	135	0	15.72	15.66	15.53	16.8	0.0	
100	QPSK	135	69	15.62	15.64	15.80	16.8	0.0	
100	QPSK	135	138	15.80	15.70	15.71	16.8	0.0	
100	QPSK	270	0	15.69	15.64	15.56			
100	16QAM	1	1	15.75	15.67	15.72	16.8	0.0	
100	64QAM	1	1	15.82	15.72	15.75	16.8	0.0	
100	256QAM	1	1	15.76	15.64	15.61	16.8	0.0	
Channel				633300	63666	640332	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3495	3549.99	3604.98			
90	QPSK	1	1	15.54	15.62	15.58	16.8	0.0	
Channel				632668	636666	640666	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3490.02	3549.99	3609.99			
80	QPSK	1	1	15.53	15.63	15.70	16.8	0.0	
Channel				632334	636666	641000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3485.01	3549.99	3615			
70	QPSK	1	1	15.44	15.60	15.64	16.8	0.0	
Channel				632000	636666	641332	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3480	3549.99	3619.98			
60	QPSK	1	1	15.45	15.66	15.59	16.8	0.0	
Channel				631668	636666	641666	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3475.02	3549.99	3624.99			
50	QPSK	1	1	15.61	15.65	15.66	16.8	0.0	
Channel				631334	636666	642000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3470.01	3549.99	3630			
40	QPSK	1	1	15.48	15.56	15.68	16.8	0.0	
Channel				631000	636666	642332	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3465	3549.99	3634.99			
30	QPSK	1	1	15.47	15.65	15.59	16.8	0.0	
Channel				630634	636666	642500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3462.51	3549.99	3637.5			
25	QPSK	1	1	15.62	15.64	15.67	16.8	0.0	
Channel				630668	636666	642666	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3460.02	3549.99	3639.99			
20	QPSK	1	1	15.45	15.61	15.66	16.8	0.0	
Channel				630500	636666	642832	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3457.5	3549.99	3642.48			
15	QPSK	1	1	15.44	15.53	15.65	16.8	0.0	
Channel				630334	636666	643000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3455.01	3549.99	3645			
10	QPSK	1	1	15.47	15.58	15.64	16.8	0.0	

ISED_RSS-192 n78 PC3 Ant7 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				63333.4	63666	64000			
Frequency (MHz)				3500.01	3549.99	3600			
100	Pi/2 BPSK	1	1	15.42	15.27	15.27			
100	Pi/2 BPSK	1	137	15.23	15.05	15.16	16.5	0.0	
100	Pi/2 BPSK	1	271	15.16	15.09	15.15			
100	Pi/2 BPSK	135	0	15.36	15.30	15.30	16.5	0.0	
100	Pi/2 BPSK	135	69	15.31	15.15	15.23	16.5	0.0	
100	Pi/2 BPSK	135	138	15.44	15.25	15.30	16.5	0.0	
100	Pi/2 BPSK	270	0	14.53	14.51	14.56			
100	QPSK	1	1	15.45	15.41	15.39			
100	QPSK	1	137	15.30	15.26	15.13	16.5	0.0	
100	QPSK	1	271	15.27	15.26	15.22			
100	QPSK	135	0	15.34	15.32	15.14	16.5	0.0	
100	QPSK	135	69	15.41	15.36	15.21	16.5	0.0	
100	QPSK	135	138	15.34	15.26	15.15	16.5	0.0	
100	QPSK	270	0	15.35	15.34	15.30			
100	16QAM	1	1	15.30	15.17	15.21	16.5	0.0	
100	64QAM	1	1	15.42	15.26	15.29	16.5	0.0	
100	256QAM	1	1	15.36	15.26	15.34	16.5	0.0	
Channel				633000	63666	640332	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3495	3549.99	3604.98			
90	QPSK	1	1	15.33	15.27	15.33	16.5	0.0	
Channel				632668	636666	640666	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3490.02	3549.99	3609.99			
80	QPSK	1	1	15.25	15.29	15.25	16.5	0.0	
Channel				632334	636666	641000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3485.01	3549.99	3615			
70	QPSK	1	1	15.25	15.31	15.34	16.5	0.0	
Channel				632000	636666	641332	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3480	3549.99	3619.98			
60	QPSK	1	1	15.26	15.31	15.21	16.5	0.0	
Channel				631668	636666	641666	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3475.02	3549.99	3624.99			
50	QPSK	1	1	15.25	15.31	15.30	16.5	0.0	
Channel				631334	636666	642000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3470.01	3549.99	3630			
40	QPSK	1	1	15.33	15.41	15.31	16.5	0.0	
Channel				631000	636666	642332	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3465	3549.99	3634.99			
30	QPSK	1	1	15.26	15.29	15.35	16.5	0.0	
Channel				630634	636666	642500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3462.51	3549.99	3637.5			
25	QPSK	1	1	15.35	15.28	15.24	16.5	0.0	
Channel				630668	636666	642666	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3460.02	3549.99	3639.99			
20	QPSK	1	1	15.33	15.24	15.30	16.5	0.0	
Channel				630500	636666	642832	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3457.5	3549.99	3642.48			
15	QPSK	1	1	15.29	15.36	15.33	16.5	0.0	
Channel				630334	636666	643000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3455.01	3549.99	3645			
10	QPSK	1	1	15.26	15.34	15.36	16.5	0.0	



Reduced Power Mode for ECI3

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				373000	376000	379000	19.0	0.0	
Frequency (MHz)				1870	1880	1890			
40	PI2 BPSK	1	1	18.30	18.35	18.26	19.0	0.0	
40	PI2 BPSK	1	108	18.27	18.34	18.23			
40	PI2 BPSK	1	214	18.18	18.26	18.15			
40	PI2 BPSK	108	0	18.20	18.29	18.21	19.0	0.0	
40	PI2 BPSK	108	54	18.28	18.35	18.29	19.0	0.0	
40	PI2 BPSK	108	108	18.18	18.28	18.21	19.0	0.0	
40	PI2 BPSK	216	0	18.16	18.27	18.20	19.0	0.0	
40	QPSK	1	1	18.32	18.42	18.36			
40	QPSK	1	108	18.20	18.30	18.20			
40	QPSK	1	214	18.34	18.39	18.24	19.0	0.0	
40	QPSK	108	0	18.20	18.32	18.27	19.0	0.0	
40	QPSK	108	54	18.29	18.39	18.29	19.0	0.0	
40	QPSK	108	108	18.16	18.23	18.14	19.0	0.0	
40	QPSK	216	0	18.23	18.35	18.29	19.0	0.0	
40	16QAM	1	1	18.18	18.25	18.14	19.0	0.0	
40	64QAM	1	1	18.13	18.22	18.12	19.0	0.0	
40	256QAM	1	1	18.07	18.15	18.03	19.0	0.0	
Channel				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1885 <th>1880<th>1895<th>19.0<td colspan="2">0.0</td></th></th></th>	1880 <th>1895<th>19.0<td colspan="2">0.0</td></th></th>	1895 <th>19.0<td colspan="2">0.0</td></th>	19.0 <td colspan="2">0.0</td>	0.0	
30	QPSK	1	1	18.13	18.24	18.24	19.0	0.0	
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5 <th>1880<th>1897.5<th>19.0<td colspan="2">0.0</td></th></th></th>	1880 <th>1897.5<th>19.0<td colspan="2">0.0</td></th></th>	1897.5 <th>19.0<td colspan="2">0.0</td></th>	19.0 <td colspan="2">0.0</td>	0.0	
25	QPSK	1	1	18.23	18.25	18.25	19.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860 <th>1880<th>1900<th>19.0<td colspan="2">0.0</td></th></th></th>	1880 <th>1900<th>19.0<td colspan="2">0.0</td></th></th>	1900 <th>19.0<td colspan="2">0.0</td></th>	19.0 <td colspan="2">0.0</td>	0.0	
20	QPSK	1	1	18.13	18.41	18.20	19.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5 <th>1880<th>1902.5<th>19.0<td colspan="2">0.0</td></th></th></th>	1880 <th>1902.5<th>19.0<td colspan="2">0.0</td></th></th>	1902.5 <th>19.0<td colspan="2">0.0</td></th>	19.0 <td colspan="2">0.0</td>	0.0	
15	QPSK	1	1	18.28	18.41	18.33	19.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855 <th>1880<th>1905<th>19.0<td colspan="2">0.0</td></th></th></th>	1880 <th>1905<th>19.0<td colspan="2">0.0</td></th></th>	1905 <th>19.0<td colspan="2">0.0</td></th>	19.0 <td colspan="2">0.0</td>	0.0	
10	QPSK	1	1	18.24	18.29	18.36	19.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5 <th>1880<th>1907.5<th>19.0<td colspan="2">0.0</td></th></th></th>	1880 <th>1907.5<th>19.0<td colspan="2">0.0</td></th></th>	1907.5 <th>19.0<td colspan="2">0.0</td></th>	19.0 <td colspan="2">0.0</td>	0.0	
5	QPSK	1	1	18.17	18.34	18.31	19.0	0.0	

n5 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166800	Power Middle Ch. Freq. 167300	Power High Ch. Freq. 167800	Tune-up limit (dbm)	MPR (db)	
Channel				834	836.5	839	24.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.88	23.01	22.94	24.0	0.0	
20	PI2 BPSK	1	53	22.69	22.73	22.73			
20	PI2 BPSK	1	104	22.64	22.64	22.61			
20	PI2 BPSK	50	0	22.36	22.47	22.45	23.5	0.5	
20	PI2 BPSK	50	28	22.78	22.81	22.75	24.0	0.0	
20	PI2 BPSK	50	56	22.25	22.28	22.16	23.5	0.5	
20	PI2 BPSK	100	0	22.27	22.44	22.33	24.0	0.0	
20	QPSK	1	1	22.90	23.03	22.85			
20	QPSK	1	53	22.58	22.71	22.66			
20	QPSK	1	104	22.63	22.74	22.67	23.0	1.0	
20	QPSK	50	0	21.90	21.90	21.90	23.0	1.0	
20	QPSK	50	28	22.82	22.94	22.86	24.0	0.0	
20	QPSK	50	56	21.70	21.77	21.65	23.0	1.0	
20	QPSK	100	0	21.87	21.92	21.86	23.0	1.0	
20	16QAM	1	1	21.62	21.69	21.69	23.0	1.0	
20	64QAM	1	1	20.20	20.25	20.13	21.5	2.5	
20	256QAM	1	1	18.74	18.81	18.68	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				166300	167300	168300	24.0	0.0	
15	QPSK	1	1	22.85	22.91	22.79	24.0	0.0	
Channel				165800	167300	166800	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				165800	167300	166800	24.0	0.0	
10	QPSK	1	1	22.75	22.94	22.79	24.0	0.0	
Channel				165300	167300	166300	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				165300	167300	166300	24.0	0.0	
5	QPSK	1	1	22.81	22.95	22.73	24.0	0.0	

n7 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				50000	50700	51000			
Frequency (MHz)				2505	2535	2545			
50	PI2 BPSK	1	1	18.33	18.44	18.31	19.5		0.0
50	PI2 BPSK	1	135	18.31	18.42	18.29			
50	PI2 BPSK	1	268	18.34	18.38	18.26			
50	PI2 BPSK	135	0	18.35	18.41	18.32	19.5		0.0
50	PI2 BPSK	135	68	18.37	18.40	18.27	19.5		0.0
50	PI2 BPSK	135	135	18.26	18.40	18.32	19.5		0.0
50	PI2 BPSK	270	0	18.21	18.35	18.29	19.5		
50	QPSK	1	1	18.48	18.55	18.44			
50	QPSK	1	135	18.29	18.41	18.35			
50	QPSK	1	268	18.44	18.51	18.40	19.5		0.0
50	QPSK	135	0	18.36	18.39	18.32	19.5		0.0
50	QPSK	135	68	18.34	18.48	18.40	19.5		0.0
50	QPSK	135	135	18.25	18.31	18.27	19.5		0.0
50	QPSK	270	0	18.40	18.43	18.34	19.5		0.0
50	16QAM	1	1	18.29	18.36	18.22	19.5		0.0
50	64QAM	1	1	18.18	18.31	18.25	19.5		0.0
50	256QAM	1	1	18.11	18.24	18.21	19.5		0.0
Channel				50000	50700	51000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	18.43	18.49	18.31			
Channel				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2555 <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td>			
30	QPSK	1	1	18.35	18.50	18.30			
Channel				50200	50700	51150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5 <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td>			
25	QPSK	1	1	18.37	18.45	18.32			
Channel				50100	50700	51200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560 <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td>			
20	QPSK	1	1	18.42	18.46	18.30			
Channel				50150	50700	51250	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2517.5	2535	2562.5 <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td>			
15	QPSK	1	1	18.39	18.41	18.39			
Channel				50100	50700	51300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565 <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td>			
10	QPSK	1	1	18.40	18.48	18.36			
Channel				50050	50700	51350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	187.5 <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td>			
5	QPSK	1	1	18.35	18.45	18.30			



n12 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700	24.0	0.0
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.81	22.96	22.97		
15	PI2 BPSK	1	40	22.95	22.98	22.77	23.5	0.5
15	PI2 BPSK	1	77	22.69	22.75	22.72		
15	PI2 BPSK	36	0	22.37	22.45	22.32		
15	PI2 BPSK	36	22	22.70	22.92	22.67	23.5	0.5
15	PI2 BPSK	36	43	21.99	22.05	21.94		
15	PI2 BPSK	75	0	22.22	22.30	22.18		
15	QPSK	1	1	22.95	23.07	22.81	24.0	0.0
15	QPSK	1	40	22.72	22.97	22.84		
15	QPSK	1	77	22.71	22.83	22.89		
15	QPSK	36	0	21.82	22.07	21.98	23.0	1.0
15	QPSK	36	22	22.82	22.89	22.64		
15	QPSK	36	43	21.69	21.65	21.52		
15	QPSK	75	0	21.72	21.77	21.66	23.0	1.0
15	16QAM	1	1	21.75	21.76	21.72		
15	16QAM	1	1	20.08	20.20	20.25		
15	256QAM	1	1	18.75	18.99	18.76	19.5	4.5
Channel				140600	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.78	22.87	22.69		
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.74	22.87	22.63		

n14 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				156600			24.0	0.0
Frequency (MHz)				703				
10	PI2 BPSK	1	1	23.12				
10	PI2 BPSK	1	26	23.05			23.5	0.5
10	PI2 BPSK	1	50	22.94				
10	PI2 BPSK	25	0	22.87				
10	PI2 BPSK	25	14	23.01			23.5	0.5
10	PI2 BPSK	25	27	22.81				
10	PI2 BPSK	50	0	22.85				
10	QPSK	1	1	23.33			24.0	0.0
10	QPSK	1	26	23.12				
10	QPSK	1	50	23.04				
10	QPSK	25	0	22.23			23.0	1.0
10	QPSK	25	14	23.29				
10	QPSK	25	27	22.20				
10	QPSK	50	0	22.26			23.0	1.0
10	16QAM	1	1	21.86				
10	64QAM	1	1	20.53				
10	256QAM	1	1	19.10			19.5	4.5
Channel				156100	156600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	703	705.5		
5	QPSK	1	1	23.23	23.30	23.26		

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				374500	376500	379500	19.0	0.0
Frequency (MHz)				18.3	18.67.5	18.65		
40	PI2 BPSK	1	1	18.37	18.40	18.27		
40	PI2 BPSK	1	108	18.27	18.43	18.33	19.0	0.0
40	PI2 BPSK	1	214	18.27	18.33	18.18		
40	PI2 BPSK	108	0	18.31	18.32	18.32		
40	PI2 BPSK	108	54	18.32	18.42	18.32	19.0	0.0
40	PI2 BPSK	108	108	18.25	18.31	18.25		
40	PI2 BPSK	216	0	18.16	18.38	18.29		
40	QPSK	1	1	18.35	18.45	18.43	19.0	0.0
40	QPSK	1	103	18.29	18.43	18.30		
40	QPSK	1	214	18.43	18.42	18.32		
40	QPSK	108	0	18.29	18.40	18.33	19.0	0.0
40	QPSK	108	54	18.34	18.41	18.33		
40	QPSK	108	108	18.18	18.29	18.17		
40	QPSK	216	0	18.31	18.36	18.26	19.0	0.0
40	16QAM	1	1	18.19	18.30	18.14		
40	16QAM	1	1	18.22	18.24	18.12		
40	256QAM	1	1	18.13	18.22	18.14	19.0	0.0
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.55	18.62.5	18.60		
30	QPSK	1	1	18.21	18.38	18.34		
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.62.5	18.62.5	18.62.5		
25	QPSK	1	1	18.24	18.33	18.38		
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.60	18.62.5	18.65		
20	QPSK	1	1	18.27	18.36	18.30		
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.57.5	18.62.5	18.67.5		
15	QPSK	1	1	18.31	18.32	18.32		
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.55	18.62.5	19.10		
10	QPSK	1	1	18.23	18.31	18.30		
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.52.5	18.62.5	19.12.5		
5	QPSK	1	1	18.22	18.34	18.32		



n26 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164300	165300	167800	24.0	0.0	
Frequency (MHz)				834	831.5	839			
20	PI2 BPSK	1	1	22.99	23.08	23.04			
20	PI2 BPSK	1	53	22.80	22.94	22.75	23.5	0.5	
20	PI2 BPSK	1	104	22.75	22.76	22.63			
20	PI2 BPSK	50	0	22.51	22.62	22.55			
20	PI2 BPSK	50	28	22.53	22.58	22.56	23.5	0.5	
20	PI2 BPSK	50	56	22.26	22.41	22.26			
20	PI2 BPSK	100	0	22.38	22.48	22.35			
20	QPSK	1	1	23.07	23.16	23.05	24.0	0.0	
20	QPSK	1	53	22.79	22.91	22.84			
20	QPSK	1	104	22.73	22.76	22.68			
20	QPSK	50	0	22.01	22.12	22.11	23.0	1.0	
20	QPSK	50	28	22.95	23.00	22.82			
20	QPSK	50	56	21.82	21.87	21.70			
20	QPSK	100	0	21.91	21.94	21.86	23.0	1.0	
20	16QAM	1	1	21.78	21.86	21.80			
20	64QAM	1	1	20.31	20.48	20.42		21.5	
20	256QAM	1	1	19.05	19.02	19.00			
Channel				164300	165300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	831.5	831.5			
15	QPSK	1	1	22.99	23.02	22.94		24.0	
Channel				163800	165300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	23.01	23.08	23.00		24.0	
Channel				163300	165300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.92	23.04	22.92		24.0	

n30 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)					
10	PI2 BPSK	1	1		19.91		19.5	0.0	
10	PI2 BPSK	1	26		18.88				
10	PI2 BPSK	1	50		18.80				
10	PI2 BPSK	25	0		18.84		19.5	0.0	
10	PI2 BPSK	25	14		18.80		19.5	0.0	
10	PI2 BPSK	25	27		18.78		19.5	0.0	
10	PI2 BPSK	50	0		18.83				
10	QPSK	1	1		19.93				
10	QPSK	1	26		18.81		19.5	0.0	
10	QPSK	1	50		18.87				
10	QPSK	25	0		18.82				
10	QPSK	25	14		18.87		19.5	0.0	
10	QPSK	25	27		18.74		19.5	0.0	
10	QPSK	50	0		18.82				
10	16QAM	1	1		18.80				
10	64QAM	1	1		18.68		19.5	0.0	
10	256QAM	1	1		18.62		19.5	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	18.81	18.88	18.71			19.5

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	345000	352000	17.20	17.45	
Frequency (MHz)				1725	1745	1765			
40	PI2 BPSK	1	1	19.26	19.30	19.18	20.0	0.0	
40	PI2 BPSK	1	108	19.21	19.29	19.13			
40	PI2 BPSK	1	214	19.14	19.19	19.04			
40	PI2 BPSK	103	0	19.12	19.17	19.14	20.0	0.0	
40	PI2 BPSK	108	54	19.21	19.27	19.18			
40	PI2 BPSK	108	108	19.07	19.21	19.15			
40	PI2 BPSK	216	0	19.11	19.17	19.14	20.0	0.0	
40	QPSK	1	1	19.28	19.31	19.24			
40	QPSK	1	108	19.08	19.27	19.07			
40	QPSK	1	214	19.24	19.28	19.16	20.0	0.0	
40	QPSK	108	0	19.16	19.18	19.20			
40	QPSK	108	54	19.21	19.26	19.22		20.0	
40	QPSK	108	108	19.11	19.16	19.06			
40	QPSK	216	0	19.12	19.22	19.15	20.0	0.0	
40	16QAM	1	1	19.14	19.15	19.08			
40	64QAM	1	1	18.99	19.18	18.99		20.0	
40	256QAM	1	1	18.89	18.82	18.78			
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.14	19.18	19.10		20.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	19.18	19.25	19.19		20.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.20	19.21	19.19		20.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.18	19.27	19.16		20.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.18	19.20	19.17		20.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.20	19.24	19.15		20.0	

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				340590				
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1		20.35		21.0	0.0
15	PI2 BPSK	1	40		20.30			
15	PI2 BPSK	1	77		20.30			
15	PI2 BPSK	36	0		20.29		21.0	0.0
15	PI2 BPSK	36	22		20.38		21.0	0.0
15	PI2 BPSK	36	43		20.31		21.0	0.0
15	PI2 BPSK	75	0		20.33			
15	QPSK	1	1		20.42			
15	QPSK	1	40		20.37		21.0	0.0
15	QPSK	1	77		20.35		21.0	0.0
15	QPSK	36	0		20.31			
15	QPSK	36	22		20.39			
15	QPSK	36	43		20.22		21.0	0.0
15	QPSK	75	0		20.34			
15	16QAM	1	1		20.29		21.0	0.0
15	64QAM	1	1		20.22		21.0	0.0
	256QAM	1	1		18.81		19.5	1.5
Channel				340000	340590	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	20.25	20.35	20.25	21.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	20.23	20.29	20.19	21.0	0.0

n71 Ant0 Default								
BW [MHz]	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		
Frequency (MHz)				673		680.5	688	
20	PI2 BPSK	1	1	23.10	23.20	23.01	24.0	0.0
20	PI2 BPSK	1	53	22.95	23.19	23.18		
20	PI2 BPSK	1	104	22.84	22.99	22.95		
20	PI2 BPSK	50	0	22.79	22.86	22.68	23.5	0.5
20	PI2 BPSK	50	28	22.95	23.02	22.90	24.0	0.0
20	PI2 BPSK	50	56	22.82	22.78	22.66	23.5	0.5
20	PI2 BPSK	100	0	22.70	22.80	22.68		
20	QPSK	1	1	23.14	23.25	22.96		
20	QPSK	1	53	23.13	23.21	22.91	24.0	0.0
20	QPSK	1	104	23.08	23.00	23.05		
20	QPSK	50	0	22.19	22.25	22.18	23.0	1.0
20	QPSK	50	28	22.99	23.21	22.92	24.0	0.0
20	QPSK	50	56	22.14	22.11	22.23	23.0	1.0
20	QPSK	100	0	22.12	22.17	22.15		
20	16QAM	1	1	21.67	21.95	21.77	23.0	1.0
20	64QAM	1	1	20.31	20.36	20.44	21.5	2.5
20	256QAM	1	1	18.67	18.56	18.57	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.04	23.05	22.89	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.96	23.20	22.78	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.10	23.19	22.85	24.0	0.0

n38 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				516004	519000	519996	20.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	18.94	19.00	18.87			
40	PI2 BPSK	1	53	18.81	18.95	18.90			
40	PI2 BPSK	1	104	18.85	18.95	18.88	20.0	0.0	
40	PI2 BPSK	50	0	18.81	18.91	18.82			
40	PI2 BPSK	50	28	18.85	18.98	18.95			
40	PI2 BPSK	50	56	18.85	18.91	18.79			
40	PI2 BPSK	100	0	18.87	18.96	18.86	20.0	0.0	
40	QPSK	1	1	18.99	19.04	18.95			
40	QPSK	1	53	18.89	19.01	18.90			
40	QPSK	1	104	18.93	18.97	18.90			
40	QPSK	50	0	18.87	18.95	18.82	20.0	0.0	
40	QPSK	50	28	18.84	18.98	18.90			
40	QPSK	50	56	18.77	18.86	18.72			
40	QPSK	100	0	18.83	18.91	18.84			
40	16QAM	1	1	18.82	18.95	18.85	20.0	0.0	
40	64QAM	1	1	18.82	18.87	18.77			
40	256QAM	1	1	18.74	18.88	18.82			
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	18.95	19.00	18.85			
Channel				516504	519000	521496			
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	18.95	18.90	18.90			
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	18.85	18.99	18.89			
Channel				515502	519000	524998			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	18.89	18.95	18.83			
Channel				515004	519000	525998			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	18.84	18.94	18.83			

n41 PC3&2 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				506202	518598	520600	20.0	0.0			
Frequency (MHz)				2546.01	2592.99	2640					
100	PI2 BPSK	1	1	19.06	19.00	18.95					
100	PI2 BPSK	1	137	18.82	18.91	18.95					
100	PI2 BPSK	1	271	18.79	18.98	18.86	20.0	0.0			
100	PI2 BPSK	135	0	18.91	18.90	18.88					
100	PI2 BPSK	135	69	18.73	18.95	18.89					
100	PI2 BPSK	135	138	18.84	18.98	18.72					
100	PI2 BPSK	270	0	18.81	18.93	18.84	20.0	0.0			
100	QPSK	1	1	19.00	19.07	18.99					
100	QPSK	1	137	18.88	19.00	18.94					
100	QPSK	1	271	18.93	18.98	18.90					
100	QPSK	135	0	18.84	18.81	18.87	20.0	0.0			
100	QPSK	135	69	18.80	18.99	18.88					
100	QPSK	135	138	18.90	18.94	18.81					
100	QPSK	270	0	18.81	18.95	18.82					
100	16QAM	1	1	18.84	18.97	18.85	20.0	0.0			
100	64QAM	1	1	18.87	18.97	18.82					
100	256QAM	1	1	18.75	18.94	18.78					
Channel				506200	518598	520599	Tune-up limit (dBm)				
Frequency (MHz)				2541	2592.99	2644.98	MPR (dB)				
90	QPSK	1	1	18.81	18.92	18.78	20.0				
Channel				507204	518598	520998	Tune-up limit (dBm)				
Frequency (MHz)				2536.02	2592.99	2649.99	MPR (dB)				
80	QPSK	1	1	18.82	18.85	18.79	20.0				
Channel				506202	518598	521000	Tune-up limit (dBm)				
Frequency (MHz)				2531.01	2592.99	2655	MPR (dB)				
70	QPSK	1	1	18.81	18.88	18.75	20.0				
Channel				505200	518598	521998	Tune-up limit (dBm)				
Frequency (MHz)				2524	2592.99	2659.98	MPR (dB)				
60	QPSK	1	1	18.74	18.82	18.76	20.0				
Channel				504204	518598	522998	Tune-up limit (dBm)				
Frequency (MHz)				2521.02	2592.99	2664.99	MPR (dB)				
50	QPSK	1	1	18.82	18.87	18.82	20.0				
Channel				503202	518598	523000	Tune-up limit (dBm)				
Frequency (MHz)				2516.01	2592.99	2670	MPR (dB)				
40	QPSK	1	1	18.78	18.91	18.80	20.0				
Channel				502200	518598	524998	Tune-up limit (dBm)				
Frequency (MHz)				2511	2592.99	2674.98	MPR (dB)				
30	QPSK	1	1	18.79	18.82	18.77	20.0				
Channel				501204	518598	525998	Tune-up limit (dBm)				
Frequency (MHz)				2506.02	2592.99	2679.99	MPR (dB)				
20	QPSK	1	1	18.76	18.90	18.79	20.0				
Channel				500700	518598	526998	Tune-up limit (dBm)				
Frequency (MHz)				2499.15	2592.99	2684.48	MPR (dB)				
15	QPSK	1	1	18.79	18.86	18.78	20.0				
Channel				500202	518598	527000	Tune-up limit (dBm)				
Frequency (MHz)				2501.01	2592.99	2685	MPR (dB)				
10	QPSK	1	1	18.81	18.86	18.77	20.0				



n2 Ant1 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)				1870	1880	1890	19.0	0.0
40	PV2 BPSK	1	1	17.83	17.86	17.80		
40	PV2 BPSK	1	108	17.88	17.82	17.78		
40	PV2 BPSK	1	214	17.86	17.76	17.81		
40	PV2 BPSK	108	0	17.88	17.79	17.75	19.0	0.0
40	PV2 BPSK	108	54	17.75	17.83	17.78	19.0	0.0
40	PV2 BPSK	108	108	17.84	17.74	17.62	19.0	0.0
40	PV2 BPSK	216	0	17.70	17.80	17.76	19.0	0.0
40	QPSK	1	1	17.88	17.90	17.84		
40	QPSK	1	108	17.77	17.87	17.78		
40	QPSK	1	214	17.68	17.83	17.77		
40	QPSK	108	0	17.73	17.79	17.69	19.0	0.0
40	QPSK	108	54	17.73	17.89	17.72	19.0	0.0
40	QPSK	108	108	17.83	17.74	17.80	19.0	0.0
40	QPSK	216	0	17.77	17.80	17.75	19.0	0.0
40	16QAM	1	1	17.68	17.76	17.73	19.0	0.0
40	64QAM	1	1	17.57	17.72	17.65	19.0	0.0
40	256QAM	1	1	17.62	17.67	17.55	19.0	0.0
Channel				372000	376000	379000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1880	1895	19.0	0.0
30	QPSK	1	1	17.68	17.87	17.75	19.0	0.0
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1902.5	1900	1897.5	19.0	0.0
25	QPSK	1	1	17.69	17.85	17.82	19.0	0.0
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900	19.0	0.0
20	QPSK	1	1	17.84	17.79	17.67	19.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1807.5	1880	1907.5	19.0	0.0
15	QPSK	1	1	17.83	17.74	17.68	19.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905	19.0	0.0
10	QPSK	1	1	17.73	17.70	17.65	19.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5	19.0	0.0
5	QPSK	1	1	17.70	17.83	17.65	19.0	0.0

n5 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				834	836.5	839	24.0	0.0
20	PV2 BPSK	1	1	22.89	22.91	22.85		
20	PV2 BPSK	1	53	22.71	22.78	22.80		
20	PV2 BPSK	1	104	22.65	22.72	22.78		
20	PV2 BPSK	50	0	22.39	22.45	22.40	23.5	0.5
20	PV2 BPSK	50	28	22.79	22.85	22.84	24.0	0.0
20	PV2 BPSK	50	56	22.21	22.26	22.20	23.5	0.5
20	PV2 BPSK	100	0	22.30	22.40	22.34	24.0	0.0
20	QPSK	1	1	22.91	22.96	22.91		
20	QPSK	1	53	22.67	22.78	22.82		
20	QPSK	1	104	22.53	22.83	22.59		
20	QPSK	50	0	21.80	22.11	21.98	23.0	1.0
20	QPSK	50	28	22.73	22.95	22.76	24.0	0.0
20	QPSK	50	56	21.58	21.80	21.64	23.0	1.0
20	QPSK	100	0	21.75	21.84	21.79	23.0	1.0
20	16QAM	1	1	21.75	21.84	21.82	23.0	1.0
20	64QAM	1	1	20.18	20.38	20.29	21.5	2.5
20	256QAM	1	1	18.65	18.56	18.69	19.5	4.5
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0
15	QPSK	1	1	22.71	22.95	22.87	24.0	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				820	836.5	844	24.0	0.0
10	QPSK	1	1	22.78	22.79	22.78	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0
5	QPSK	1	1	22.79	22.81	22.90	24.0	0.0

n7 Ant1 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)				2505	2535	2545	16.5	0.0
50	PV2 BPSK	1	1	15.77	15.86	15.82		
50	PV2 BPSK	1	135	15.73	15.79	15.73		
50	PV2 BPSK	1	268	15.72	15.76	15.72		
50	PV2 BPSK	135	0	15.67	15.77	15.66	16.5	0.0
50	PV2 BPSK	135	68	15.84	15.78	15.84	16.5	0.0
50	PV2 BPSK	135	135	15.84	15.77	15.65	16.5	0.0
50	PV2 BPSK	270	0	15.67	15.71	15.60	16.5	0.0
50	QPSK	1	1	15.85	15.91	15.96		
50	QPSK	1	135	15.70	15.84	15.71		
50	QPSK	1	268	15.84	15.89	15.80		
50	QPSK	135	0	15.74	15.79	15.74	16.5	0.0
50	QPSK	135	68	15.73	15.84	15.74	16.5	0.0
50	QPSK	135	135	15.80	15.73	15.59	16.5	0.0
50	QPSK	270	0	15.73	15.77	15.73	16.5	0.0
50	16QAM	1	1	15.80	15.73	15.83	16.5	0.0
50	64QAM	1	1	15.80	15.75	15.65	16.5	0.0
50	256QAM	1	1	15.61	15.70	15.64	16.5	0.0
Channel				507000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550	16.5	0.0
40	QPSK	1	1	15.82	15.80	15.73	16.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	16.5	0.0
30	QPSK	1	1	15.77	15.79	15.73	16.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	16.5	0.0
25	QPSK	1	1	15.71	15.83	15.71	16.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	16.5	0.0
20	QPSK	1	1	15.76	15.78	15.81	16.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	16.5	0.0
15	QPSK	1	1	15.73	15.86	15.77	16.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	16.5	0.0
10	QPSK	1	1	15.80	15.80	15.79	16.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	16.5	0.0
5	QPSK	1	1	15.76	15.77	15.73	16.5	0.0



n12 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700	24.0	0.0
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	23.10	23.07	23.10		
15	PI2 BPSK	1	40	22.92	22.85	22.87		
15	PI2 BPSK	1	77	22.38	22.55	22.59	23.5	0.5
15	PI2 BPSK	36	0	22.83	22.83	22.89	24.0	0.0
15	PI2 BPSK	36	22	23.06	22.94	22.91		
15	PI2 BPSK	36	43	22.29	22.34	22.19		
15	PI2 BPSK	75	0	22.32	22.48	22.46		
15	QPSK	1	1	23.12	23.17	23.00	24.0	0.0
15	QPSK	1	40	22.77	22.88	22.91		
15	QPSK	1	77	22.48	22.54	22.29		
15	QPSK	36	0	22.18	22.11	22.13		
15	QPSK	36	22	22.98	23.07	23.02	24.0	0.0
15	QPSK	36	43	21.94	22.06	22.01	23.0	1.0
15	QPSK	75	0	22.14	22.27	22.02		
15	16QAM	1	1	21.93	21.86	21.77		
15	64QAM	1	1	20.32	20.61	20.47		
15	256QAM	1	1	18.85	18.84	18.80	19.5	4.5
Channel				142000	141500	142200	24.0	0.0
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	23.00	23.03	22.88		
Channel				140300	141500	142700	24.0	0.0
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	23.01	23.09	22.78		

n14 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)
Channel				158600			24.0	0.0
Frequency (MHz)				793				
10	PI2 BPSK	1	1	22.90				
10	PI2 BPSK	1	26	22.88				
10	PI2 BPSK	1	50	22.87			23.5	0.5
10	PI2 BPSK	25	0	22.33				
10	PI2 BPSK	25	14	22.82				
10	PI2 BPSK	25	27	22.37				
10	PI2 BPSK	50	0	22.34			24.0	0.0
10	QPSK	1	1	22.94				
10	QPSK	1	26	22.90				
10	QPSK	1	50	22.88				
10	QPSK	25	0	21.80			23.0	1.0
10	QPSK	25	14	22.85			24.0	0.0
10	QPSK	25	27	21.84			23.0	1.0
10	QPSK	50	0	21.90				
10	16QAM	1	1	21.60			23.0	1.0
10	64QAM	1	1	20.03			21.5	2.5
10	256QAM	1	1		18.30		19.5	4.5
Channel				158100	158000	159100	24.0	0.0
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.70	22.79	22.66		

n25 Ant1 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				374500	376500	378500	19.0	0.0
Frequency (MHz)				1870	1882.5	1895		
40	PI2 BPSK	1	1	18.03	17.98	18.01		
40	PI2 BPSK	1	108	17.78	17.97	17.97		
40	PI2 BPSK	1	214	17.84	17.92	17.72	19.0	0.0
40	PI2 BPSK	108	0	17.84	17.91	17.94		
40	PI2 BPSK	108	54	17.96	17.97	17.96		
40	PI2 BPSK	108	108	17.77	17.87	17.73		
40	PI2 BPSK	216	0	17.80	18.00	17.93	19.0	0.0
40	QPSK	1	1	18.02	18.07	17.99		
40	QPSK	1	108	17.96	18.03	17.91		
40	QPSK	1	214	17.81	18.00	17.94		
40	QPSK	108	0	17.93	17.90	17.82	19.0	0.0
40	QPSK	108	54	17.88	18.02	17.92	19.0	0.0
40	QPSK	108	108	17.84	17.89	17.87	19.0	0.0
40	QPSK	216	0	17.92	17.98	17.86		
40	16QAM	1	1	17.79	17.90	17.90	19.0	0.0
40	64QAM	1	1	17.70	17.87	17.77	19.0	0.0
40	256QAM	1	1	17.77	17.83	17.74	19.0	0.0
Channel				375000	376500	380000	19.0	0.0
Frequency (MHz)				1885	1882.5	1900		
30	QPSK	1	1	17.92	17.97	17.87	19.0	0.0
Channel				372500	376500	380500	19.0	0.0
Frequency (MHz)				1872.5	1882.5	1902.5		
25	QPSK	1	1	17.81	18.02	17.93	19.0	0.0
Channel				372000	376500	381000	19.0	0.0
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	17.96	17.99	17.86	19.0	0.0
Channel				371500	376500	381500	19.0	0.0
Frequency (MHz)				1867.5	1882.5	1907.5		
15	QPSK	1	1	17.98	18.02	17.85	19.0	0.0
Channel				371000	376500	382000	19.0	0.0
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	17.88	17.86	17.85	19.0	0.0
Channel				370500	376500	382500	19.0	0.0
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	17.87	17.98	17.91	19.0	0.0



n26 Ant1 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)
Channel				164800	166300	167800	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PV2 BPSK	1	1	22.77	22.88	22.93		
20	PV2 BPSK	1	53	22.66	23.03	22.83	23.5	0.5
20	PV2 BPSK	1	104	22.73	22.90	22.92		
20	PV2 BPSK	50	0	22.17	22.24	22.39		
20	PV2 BPSK	50	28	22.74	22.91	22.76	24.0	0.0
20	PV2 BPSK	50	56	22.34	22.33	22.38	23.5	0.5
20	PV2 BPSK	100	0	22.45	22.64	22.49		
20	QPSK	1	1	23.05	23.10	22.97		
20	QPSK	1	53	22.84	22.84	22.96	24.0	0.0
20	QPSK	1	104	22.89	22.76	22.61	23.0	1.0
20	QPSK	50	0	21.73	22.04	21.99		
20	QPSK	50	28	22.83	23.07	22.77		
20	QPSK	50	56	21.91	21.82	21.81	23.0	1.0
20	QPSK	100	0	21.80	21.83	21.81		
20	16QAM	1	1	21.82	21.80	21.90		
20	64QAM	1	1	20.40	20.32	20.27	21.5	2.5
20	256QAM	1	1	18.43	18.48	18.37	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	23.03	23.06	22.87	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.86	23.03	22.92	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	22.84	22.90	22.93	24.0	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				480000			19.0	0.0
Frequency (MHz)				2310				
10	PV2 BPSK	1	1		18.28			
10	PV2 BPSK	1	26		18.27		19.0	0.0
10	PV2 BPSK	1	50		18.22			
10	PV2 BPSK	25	0		18.20			
10	PV2 BPSK	25	14		18.24		19.0	0.0
10	PV2 BPSK	25	27		18.22		19.0	0.0
10	PV2 BPSK	50	0		18.24			
10	QPSK	1	1		18.30			
10	QPSK	1	26		18.29		19.0	0.0
10	QPSK	1	50		18.23		19.0	0.0
10	QPSK	25	0		18.25			
10	QPSK	25	14		18.27			
10	QPSK	25	27		18.11		19.0	0.0
10	QPSK	50	0		18.21			
10	16QAM	1	1		18.17			
10	64QAM	1	1		18.17		19.0	0.0
10	256QAM	1	1		18.03		19.0	0.0
Channel				481600	482000	482500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	18.18	18.26	18.15	19.0	0.0

n66 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				346000	348000	350000	21.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	20.13	20.20	20.17		
40	PV2 BPSK	1	108	20.09	20.17	20.12	21.0	0.0
40	PV2 BPSK	1	214	20.06	20.10	19.98		
40	PV2 BPSK	108	0	20.10	20.14	20.10		
40	PV2 BPSK	108	54	20.04	20.16	20.11	21.0	0.0
40	PV2 BPSK	108	108	20.01	20.08	19.96	21.0	0.0
40	PV2 BPSK	216	0	20.03	20.17	20.08		
40	QPSK	1	1	20.17	20.24	20.21		
40	QPSK	1	108	20.09	20.19	20.08	21.0	0.0
40	QPSK	1	214	20.07	20.15	20.01		
40	QPSK	108	0	20.00	20.15	20.11		
40	QPSK	108	54	20.17	20.20	20.14	21.0	0.0
40	QPSK	108	108	19.95	20.06	20.05		
40	QPSK	216	0	20.00	20.14	20.06		
40	16QAM	1	1	19.91	20.05	19.97	21.0	0.0
40	64QAM	1	1	19.96	20.04	20.00	21.0	0.0
40	256QAM	1	1	18.94	19.05	18.97	19.5	1.5
Channel				345000	348000	353000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.12	20.13	20.09	21.0	0.0
Channel				344900	349000	353500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	20.04	20.19	20.14	21.0	0.0
Channel				344000	349000	354000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.06	20.11	20.14	21.0	0.0
Channel				343000	349000	354500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.07	20.17	20.15	21.0	0.0
Channel				343000	349000	355000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.14	20.16	20.07	21.0	0.0
Channel				342000	349000	355500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.10	20.12	20.11	21.0	0.0

n70 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				340500			21.5	0.0
Frequency (MHz)				1702.5				
15	PI/2 BPSK	1	1		20.60		21.5	0.0
15	PI/2 BPSK	1	40		20.52			
15	PI/2 BPSK	1	77		20.48			
15	PI/2 BPSK	36	0		20.44			
15	PI/2 BPSK	36	22		20.56		21.5	0.0
15	PI/2 BPSK	36	43		20.42		21.5	0.0
15	PI/2 BPSK	75	0		20.47		21.5	0.0
15	QPSK	1	1		20.52			
15	QPSK	1	40		20.60			
15	QPSK	1	77		20.57			
15	QPSK	36	0		20.50		21.5	0.0
15	QPSK	36	22		20.57		21.5	0.0
15	QPSK	36	43		20.42		21.5	0.0
15	QPSK	75	0		20.50		21.5	0.0
15	16QAM	1	1		20.45			
15	64QAM	1	1		20.43			
15	256QAM	1	1		18.64			
Channel				340300	340500	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705	21.5	0.0
10	QPSK	1	1	20.51	20.58	20.44	21.5	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5	21.5	0.0
5	QPSK	1	1	20.52	20.56	20.43	21.5	0.0

n71 Ant1 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				139600			24.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	22.96	23.12	23.09	24.0	0.0
20	PI/2 BPSK	1	53	22.98	22.87	22.75		
20	PI/2 BPSK	1	104	22.91	22.98	22.78		
20	PI/2 BPSK	50	0	22.88	22.74	22.84		
20	PI/2 BPSK	50	28	22.70	22.93	22.83	24.0	0.0
20	PI/2 BPSK	50	56	22.29	22.60	22.56	23.5	0.5
20	PI/2 BPSK	100	0	22.63	22.55	22.41	24.0	0.0
20	QPSK	1	1	23.05	23.16	23.08		
20	QPSK	1	53	22.73	22.92	22.88		
20	QPSK	1	104	23.00	22.90	22.90		
20	QPSK	50	0	21.95	22.18	22.05	23.0	1.0
20	QPSK	50	28	23.01	23.03	22.90	24.0	0.0
20	QPSK	50	56	21.92	21.97	21.99	23.0	1.0
20	QPSK	100	0	21.97	22.15	22.12	23.0	1.0
20	16QAM	1	1	21.84	21.71	21.65		
20	64QAM	1	1	20.14	20.33	20.11		
20	256QAM	1	1	18.55	18.64	18.57		
Channel				139100	139300	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5	24.0	0.0
15	QPSK	1	1	23.06	23.06	22.88	24.0	0.0
Channel				138600	138100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	673	24.0	0.0
10	QPSK	1	1	22.84	23.00	22.93	24.0	0.0
Channel				133100	136100	135100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5	24.0	0.0
5	QPSK	1	1	22.90	23.13	23.05	24.0	0.0

n38 Ant1 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				518004	519000	519996	17.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	15.76	15.81	15.72		
40	PI/2 BPSK	1	53	15.69	15.80	15.73	17.0	0.0
40	PI/2 BPSK	1	104	15.67	15.75	15.66		
40	PI/2 BPSK	50	0	15.67	15.79	15.69		
40	PI/2 BPSK	50	28	15.71	15.80	15.67	17.0	0.0
40	PI/2 BPSK	50	56	15.70	15.75	15.63	17.0	0.0
40	PI/2 BPSK	100	0	15.63	15.73	15.63	17.0	0.0
40	QPSK	1	1	15.80	15.85	15.76		
40	QPSK	1	53	15.73	15.80	15.67		
40	QPSK	1	104	15.62	15.76	15.62	17.0	0.0
40	QPSK	50	0	15.68	15.73	15.58		
40	QPSK	50	28	15.76	15.62	15.71		
40	QPSK	80	56	15.67	15.71	15.65	17.0	0.0
40	QPSK	100	0	15.63	15.76	15.72	17.0	0.0
40	16QAM	1	1	15.66	15.74	15.67		
40	64QAM	1	1	15.59	15.64	15.52		
40	256QAM	1	1	15.44	15.56	15.45	17.0	0.0
Channel				517002	518000	518998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	17.0	0.0
30	QPSK	1	1	15.65	15.81	15.70	17.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2582.52	2595	2607.48	17.0	0.0
25	QPSK	1	1	15.72	15.71	15.72	17.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	17.0	0.0
20	QPSK	1	1	15.67	15.76	15.68	17.0	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	17.0	0.0
15	QPSK	1	1	15.74	15.79	15.72	17.0	0.0
Channel				515004	519000	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98	17.0	0.0
10	QPSK	1	1	15.71	15.75	15.67	17.0	0.0

n41 PC3&2 Ant1 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				506002	518998	529000	17.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	15.80	15.95	15.85		
100	PI/2 BPSK	1	137	15.72	15.87	15.74	17.0	0.0
100	PI/2 BPSK	1	271	15.75	15.85	15.68		
100	PI/2 BPSK	135	0	15.85	15.87	15.82		
100	PI/2 BPSK	135	69	15.84	15.80	15.76	17.0	0.0
100	PI/2 BPSK	135	138	15.85	15.83	15.79	17.0	0.0
100	PI/2 BPSK	270	0	15.70	15.82	15.70	17.0	0.0
100	QPSK	1	1	15.96	16.03	15.91		
100	QPSK	1	137	15.77	15.83	15.70		
100	QPSK	1	271	15.67	15.80	15.75	17.0	0.0
100	QPSK	135	0	15.81	15.84	15.66		
100	QPSK	135	69	15.84	15.67	15.80		
100	QPSK	135	138	15.77	15.69	15.79	17.0	0.0
100	QPSK	270	0	15.72	15.83	15.80	17.0	0.0
100	16QAM	1	1	15.76	15.82	15.65		
100	64QAM	1	1	15.61	15.76	15.58		
100	256QAM	1	1	15.56	15.73	15.51	17.0	0.0
Channel				506000	518998	529000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	17.0	0.0
90	QPSK	1	1	15.82	15.97	15.81	17.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	17.0	0.0
80	QPSK	1	1	15.82	15.89	15.82	17.0	0.0
Channel				506002	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	17.0	0.0
70	QPSK	1	1	15.90	15.95	15.85	17.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.98	17.0	0.0
60	QPSK	1	1	15.91	15.98	15.82	17.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	17.0	0.0
50	QPSK	1	1	15.84	15.90	15.81	17.0	0.0
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	17.0	0.0
40	QPSK	1	1	15.87	15.93	15.76	17.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.99	17.0	0.0
30	QPSK	1	1	15.90	15.92	15.79	17.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	17.0	0.0
20	QPSK	1	1	15.92	15.95	15.87	17.0	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2499.15	2592.99	2684.48	17.0	0.0
15	QPSK	1	1	15.87	15.88	15.79	17.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	17.0	0.0
10	QPSK	1	1	15.82	15.90	15.76	17.0	0.0



n41 PC3 Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				500202	518598	529200	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.32	22.40	22.37	24.0	0.0
100	PI2 BPSK	1	137	22.22	22.32	22.28		
100	PI2 BPSK	1	271	22.15	22.32	22.14		
100	PI2 BPSK	135	0	22.24	22.31	22.21		
100	PI2 BPSK	135	69	22.24	22.29	22.20	24.0	0.0
100	PI2 BPSK	135	138	22.17	22.31	22.12	24.0	0.0
100	PI2 BPSK	270	0	22.13	22.33	22.25	24.0	0.0
100	QPSK	1	1	22.37	22.46	22.42		
100	QPSK	1	137	22.27	22.29	22.30		
100	QPSK	1	271	22.12	22.18	22.03		
100	QPSK	135	0	22.18	22.27	22.24	24.0	0.0
100	QPSK	135	69	22.30	22.42	22.28	24.0	0.0
100	QPSK	135	138	22.16	22.24	22.12	24.0	0.0
100	QPSK	270	0	22.26	22.29	22.20	24.0	0.0
100	16QAM	1	1	22.09	22.23	22.12		
100	64QAM	1	1	22.15	22.19	22.06		
100	256QAM	1	1	21.22	21.38	21.22		
Channel				500200	518598	530200	24.0	MPR
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.33	22.32	22.35	24.0	0.0
Channel				507204	518598	529998	24.0	MPR
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	22.26	22.39	22.28	24.0	0.0
Channel				506202	518598	531000	24.0	MPR
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.29	22.38	22.36	24.0	0.0
Channel				505200	518598	531998	24.0	MPR
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	22.26	22.38	22.37	24.0	0.0
Channel				504204	518598	532998	24.0	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.29	22.34	22.39	24.0	0.0
Channel				503202	518598	533000	24.0	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.31	22.34	22.34	24.0	0.0
Channel				502200	518598	534996	24.0	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.26	22.33	22.36	24.0	0.0
Channel				501204	518598	535998	24.0	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.23	22.38	22.33	24.0	0.0
Channel				500700	518598	536996	24.0	MPR
Frequency (MHz)				2503.5	2592.99	2689.48		
15	QPSK	1	1	22.31	22.34	22.29	24.0	0.0
Channel				500202	518598	537000	24.0	MPR
Frequency (MHz)				2501.01	2592.99	2695		
10	QPSK	1	1	22.32	22.39	22.29	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				500202	518598	529200	26.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	24.43	24.47	24.37	26.0	0.0
100	PI2 BPSK	1	137	24.30	24.41	24.28		
100	PI2 BPSK	1	271	24.28	24.44	24.30		
100	PI2 BPSK	135	0	24.36	24.38	24.35		
100	PI2 BPSK	135	69	24.40	24.33	24.41	26.0	0.0
100	PI2 BPSK	135	138	24.31	24.37	24.20	26.0	0.0
100	PI2 BPSK	270	0	24.30	24.35	24.33	26.0	0.0
100	QPSK	1	1	24.48	24.50	24.42		
100	QPSK	1	137	24.47	24.41	24.50		
100	QPSK	1	271	24.22	24.31	24.23		
100	QPSK	135	0	24.28	24.29	24.34	26.0	0.0
100	QPSK	135	69	24.45	24.52	24.35	26.0	0.0
100	QPSK	135	138	24.26	24.26	24.17	26.0	0.0
100	QPSK	270	0	24.42	24.45	24.35	26.0	0.0
100	16QAM	1	1	24.30	24.25	24.30		
100	64QAM	1	1	24.33	24.31	24.14		
100	256QAM	1	1	21.29	21.35	21.36		
Channel				507200	518598	529998	26.0	MPR
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	24.37	24.50	24.28	26.0	0.0
Channel				507204	518598	529998	26.0	MPR
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	24.39	24.42	24.38	26.0	0.0
Channel				506202	518598	531000	26.0	MPR
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	24.41	24.50	24.37	26.0	0.0
Channel				505200	518598	531998	26.0	MPR
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	24.43	24.45	24.37	26.0	0.0
Channel				504204	518598	532998	26.0	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	24.39	24.41	24.34	26.0	0.0
Channel				503202	518598	533000	26.0	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.42	24.43	24.29	26.0	0.0
Channel				502200	518598	534996	26.0	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	24.41	24.45	24.29	26.0	0.0
Channel				501204	518598	535998	26.0	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	24.45	24.47	24.29	26.0	0.0
Channel				500700	518598	536996	26.0	MPR
Frequency (MHz)				2503.5	2592.99	2689.48		
15	QPSK	1	1	24.36	24.50	24.39	26.0	0.0
Channel				500202	518598	537000	26.0	MPR
Frequency (MHz)				2501.01	2592.99	2695		
10	QPSK	1	1	24.41	24.45	24.29	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				640000	641666	643332	23.0	0.0
Frequency (MHz)				3600	3624.99	3649.98		
100	PI2 BPSK	1	1	22.38	22.42	22.24	23.0	0.0
100	PI2 BPSK	1	137	22.14	22.26	22.28		
100	PI2 BPSK	1	271	22.19	22.33	22.16		
100	PI2 BPSK	135	0	22.24	22.31	22.17		
100	PI2 BPSK	135	69	22.26	22.24	22.30	23.0	0.0
100	PI2 BPSK	135	138	22.12	22.34	22.19	23.0	0.0
100	PI2 BPSK	270	0	22.09	22.34	22.32	23.0	0.0
100	QPSK	1	1	22.44	22.46	22.38		
100	QPSK	1	137	22.33	22.31	22.32		
100	QPSK	1	271	22.21	22.24	22.04		
100	QPSK	135	0	22.14	22.25	22.25	23.0	0.0
100	QPSK	135	69	22.31	22.44	22.29	23.0	0.0
100	QPSK	135	138	22.23	22.24	22.12	23.0	0.0
100	QPSK	270	0	22.26	22.38	22.22	23.0	0.0
100	16QAM	1	1	21.83	21.88	21.81		
100	64QAM	1	1	20.45	20.57	20.43		
100	256QAM	1	1	19.07	19.19	19.06		
Channel				639600	641666	643600	Tune-up limit	MPR
Frequency (MHz)				3595.02	3624.99	3654.99	(dBm)	(dB)
90	QPSK	1	1	22.39	22.40	22.18	23.0	0.0
Channel				639334	641666	644000	23.0	MPR
Frequency (MHz)				3590.01	3624.99	3650		
80	QPSK	1	1	22.33	22.44	22.20	23.0	0.0
Channel				638600	641666	644600	Tune-up limit	MPR
Frequency (MHz)				3580.02	3624.99	3669.99	(dBm)	(dB)
60	QPSK	1	1	22.37	22.39	22.19	23.0	0.0
Channel				638334	641666	645000	Tune-up limit	MPR
Frequency (MHz)				3635.01	3624.99	3675	(dBm)	(dB)
50	QPSK	1	1	22.39	22.43	22.21	23.0	0.0
Channel				637600	641666	645332	Tune-up limit	MPR
Frequency (MHz)				3570	3624.99	3679.98	(dBm)	(dB)
40	QPSK	1	1	22.39	22.34	22.20	23.0	0.0
Channel				637600	641666	645666	Tune-up limit	MPR
Frequency (MHz)				3668.02	3624.99	3684.99	(dBm)	(dB)
30	QPSK	1	1	22.33	22.37	22.18	23.0	0.0
Channel				637334	641666	646000	Tune-up limit	MPR
Frequency (MHz)				3590.01	3624.99	3650	(dBm)	(dB)
20	QPSK	1	1	22.39	22.43	22.20	23.0	0.0
Channel				637168	641666	646336	Tune-up limit	MPR
Frequency (MHz)				3587.52	3624.99	3692.49	(dBm)	(dB)
15	QPSK	1	1	22.32	22.35	22.25	23.0	0.0
Channel				637000	641666	646632	Tune-up limit	MPR
Frequency (MHz)				3605	3624.99	3694.98	(dBm)	(dB)
10	QPSK	1	1	22.38	22.41	22.20	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				65000	65600	66200	23.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.97	21.94	21.89	23.0	0.0
100	PI/2 BPSK	1	137	21.84	21.82	21.84		
100	PI/2 BPSK	1	271	21.73	21.85	21.89		
100	PI/2 BPSK	135	0	21.87	21.94	21.84		
100	PI/2 BPSK	135	69	21.85	21.93	21.91	23.0	0.0
100	PI/2 BPSK	135	138	21.77	21.90	21.81	23.0	0.0
100	PI/2 BPSK	270	0	21.84	21.89	21.89	23.0	0.0
100	QPSK	1	1	22.02	22.08	21.94		
100	QPSK	1	137	21.97	21.98	21.89		
100	QPSK	1	271	21.88	21.94	21.89		
100	QPSK	135	0	21.94	21.89	21.93	23.0	0.0
100	QPSK	135	69	21.90	22.03	21.87	23.0	0.0
100	QPSK	135	138	21.94	21.82	21.77	23.0	0.0
100	QPSK	270	0	21.88	21.91	21.85	23.0	0.0
100	16QAM	1	1	21.72	21.87	21.84	23.0	0.0
100	64QAM	1	1	21.70	21.81	21.78	23.0	0.0
100	256QAM	1	1	21.72	21.81	21.75	22.5	0.5
Channel				64958	65500	66234	23.0	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.94	21.93	21.86	23.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3740	3940.02		
80	QPSK	1	1	22.00	21.89	21.90	23.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.84	22.05	21.89	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.98	22.00	21.87	23.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.99	22.03	21.92	23.0	0.0
Channel				648000	655000	663000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.86	22.02	21.81	23.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3717.02	3740	3965.01		
30	QPSK	1	1	21.84	21.94	21.91	23.0	0.0
Channel				647334	656000	664500	Tune-up limit (dBm)	MPR
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	21.84	21.92	21.81	23.0	0.0
Channel				647000	655000	664668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.91	21.91	21.84	23.0	0.0
Channel				647188	656000	664834	Tune-up limit (dBm)	MPR
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	21.90	21.94	21.93	23.0	0.0
Channel				647000	655000	665000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.00	21.93	21.80	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				63300	63334	63500	23.0	0.0
Frequency (MHz)				3495	3500.01	3505.02		
100	PI/2 BPSK	1	1	21.86	21.84	21.83	23.0	0.0
100	PI/2 BPSK	1	137	21.86	21.84	21.83		
100	PI/2 BPSK	1	271	21.86	21.84	21.83		
100	PI/2 BPSK	135	0	21.86	21.84	21.83		
100	PI/2 BPSK	135	69	21.91	21.81	21.81	23.0	0.0
100	PI/2 BPSK	135	138	21.81	21.81	21.81	23.0	0.0
100	PI/2 BPSK	270	0	21.86	21.86	21.86	23.0	0.0
100	QPSK	1	1	22.05	22.05	21.84		
100	QPSK	1	137	21.95	21.95	21.95		
100	QPSK	1	271	21.97	21.97	21.97		
100	QPSK	135	0	21.93	21.93	21.93	23.0	0.0
100	QPSK	135	69	22.00	22.00	22.00	23.0	0.0
100	QPSK	135	138	21.84	21.84	21.84	23.0	0.0
100	QPSK	270	0	21.95	21.95	21.95	23.0	0.0
100	16QAM	1	1	21.82	21.82	21.82	23.0	0.0
100	64QAM	1	1	21.87	21.87	21.87	23.0	0.0
100	256QAM	1	1	21.52	21.52	21.52	22.5	0.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.84	22.01	21.87	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.86	21.84	21.83	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.90	21.96	21.91	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.84	22.01	21.89	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.85	21.85	21.92	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.86	21.91	21.99	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.84	21.85	21.95	23.0	0.0
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	21.89	21.99	21.99	23.0	0.0
Channel				630368	633334	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.85	21.97	21.92	23.0	0.0
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	21.87	22.02	21.92	23.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	21.93	21.92	21.90	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				650000	3750			
Frequency (MHz)				21.97				
100	PI/2 BPSK	1	1		21.97			
100	PI/2 BPSK	1	137		21.94		23.0	0.0
100	PI/2 BPSK	1	271		21.88			
100	PI/2 BPSK	135	0		21.90		23.0	0.0
100	PI/2 BPSK	135	69		21.94		23.0	0.0
100	PI/2 BPSK	135	138		21.79		23.0	0.0
100	PI/2 BPSK	270	0		21.89			
100	QPSK	1	1		22.01			
100	QPSK	1	137		21.99		23.0	0.0
100	QPSK	1	271		21.89			
100	QPSK	135	0		21.85		23.0	0.0
100	QPSK	135	69		21.85		23.0	0.0
100	QPSK	135	138		21.80		23.0	0.0
100	QPSK	270	0		21.90			
100	16QAM	1	1		21.91		23.0	0.0
100	64QAM	1	1		20.63		21.5	1.5
100	256QAM	1	1		18.68		19.5	3.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.82	21.71	21.84	23.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.90	21.89	21.86	23.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.83	21.93	21.82	23.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.03		
60	QPSK	1	1	21.88	21.87	21.87	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.85	21.98	21.91	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.85	21.88	21.88	23.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.80	21.95	21.83	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
25	QPSK	1	1	21.79	21.91	21.81	23.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
20	QPSK	1	1	21.88	21.87	21.82	23.0	0.0
Channel				647188	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	21.89	21.88	21.91	23.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	21.82	21.97	21.82	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				633334	3500.01			
Frequency (MHz)				21.89				
100	PI/2 BPSK	1	1		21.89			
100	PI/2 BPSK	1	137		21.91		23.0	0.0
100	PI/2 BPSK	1	271		21.79			
100	PI/2 BPSK	135	0		21.89		23.0	0.0
100	PI/2 BPSK	135	69		21.81		23.0	0.0
100	PI/2 BPSK	135	138		21.64		23.0	0.0
100	PI/2 BPSK	270	0		21.81			
100	QPSK	1	1		21.97			
100	QPSK	1	137		21.86		23.0	0.0
100	QPSK	1	271		21.83			
100	QPSK	135	0		21.79		23.0	0.0
100	QPSK	135	69		21.63		23.0	0.0
100	QPSK	135	138		21.68		23.0	0.0
100	QPSK	270	0		21.84			
100	16QAM	1	1		21.84		23.0	0.0
100	64QAM	1	1		20.51		21.5	1.5
100	256QAM	1	1		18.73		19.5	3.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.71	21.92	21.84	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.80	21.84	21.88	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.75	21.89	21.78	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.70	21.91	21.84	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.82	21.83	21.87	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.80	21.86	21.88	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.76	21.89	21.81	23.0	0.0
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	21.76	21.90	21.89	23.0	0.0
Channel				630368	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.76	21.89	21.82	23.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	21.76	21.83	21.79	23.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	21.75	21.88	21.86	23.0	0.0



n48 Part96 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				640000	641666	643332			
Frequency (MHz)				3600	3624.99	3649.98			
100	P12 BPSK	1	1	19.32	19.39	19.27	20.0	0.0	0.0
100	P12 BPSK	1	137	19.24	19.28	19.20			
100	P12 BPSK	1	271	19.14	19.28	19.13			
100	P12 BPSK	135	0	19.16	19.29	19.24	20.0	0.0	0.0
100	P12 BPSK	135	69	19.22	19.32	19.25	20.0	0.0	0.0
100	P12 BPSK	135	138	19.24	19.28	19.21	20.0	0.0	0.0
100	P12 BPSK	270	0	19.19	19.30	19.15	20.0	0.0	0.0
100	QPSK	1	1	19.37	19.46	19.42	20.0	0.0	0.0
100	QPSK	1	137	19.31	19.42	19.38			
100	QPSK	1	271	19.31	19.36	19.31			
100	QPSK	135	0	19.24	19.27	19.16	20.0	0.0	0.0
100	QPSK	135	69	19.21	19.33	19.27	20.0	0.0	0.0
100	QPSK	135	138	19.12	19.21	19.09	20.0	0.0	0.0
100	QPSK	270	0	19.19	19.30	19.21	20.0	0.0	0.0
100	16QAM	1	1	19.11	19.26	19.16	20.0	0.0	0.0
100	64QAM	1	1	19.13	19.23	19.15	20.0	0.0	0.0
100	256QAM	1	1	19.76	19.84	19.79	19.5	0.5	0.5
Channel				639999	641666	643666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99			
90	QPSK	1	1	19.25	19.40	19.37	20.0	0.0	0.0
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3590.01	3624.99	3650			
80	QPSK	1	1	19.26	19.32	19.31	20.0	0.0	0.0
Channel				638999	641666	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3589.02	3624.99	3669.99			
60	QPSK	1	1	19.31	19.33	19.33	20.0	0.0	0.0
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3625.01	3624.99	3675			
50	QPSK	1	1	19.33	19.34	19.38	20.0	0.0	0.0
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3670	3624.99	3679.98			
40	QPSK	1	1	19.23	19.39	19.32	20.0	0.0	0.0
Channel				637666	641666	645556	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3684.99			
30	QPSK	1	1	19.32	19.37	19.27	20.0	0.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3620.01	3624.99	3630			
20	QPSK	1	1	19.23	19.31	19.27	20.0	0.0	0.0
Channel				637168	641666	646168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3657.52	3624.99	3692.49			
15	QPSK	1	1	19.24	19.42	19.34	20.0	0.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3655	3624.99	3694.98			
10	QPSK	1	1	19.24	19.38	19.36	20.0	0.0	0.0

Part270 n77 PC3&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				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	20.14	20.20	20.10	21.0	0.0	
100	P12 BPSK	1	137	20.11	20.18	20.08			
100	P12 BPSK	1	271	20.08	20.10	19.98			
100	P12 BPSK	135	0	20.14	20.14	20.01	21.0	0.0	
100	P12 BPSK	135	69	20.08	20.13	20.06	21.0	0.0	
100	P12 BPSK	135	138	20.00	20.04	19.85	21.0	0.0	
100	P12 BPSK	270	0	20.10	20.11	20.07	21.0	0.0	
100	QPSK	1	1	20.15	20.23	20.08	21.0	0.0	
100	QPSK	1	137	20.09	20.21	20.09			
100	QPSK	1	271	19.98	20.11	20.04			
100	QPSK	135	0	20.10	20.12	20.02	21.0	0.0	
100	QPSK	135	69	20.09	20.20	20.14	21.0	0.0	
100	QPSK	135	138	20.00	20.04	20.00	21.0	0.0	
100	QPSK	270	0	20.03	20.14	20.05	21.0	0.0	
100	16QAM	1	1	20.08	20.09	20.03	21.0	0.0	
100	64QAM	1	1	19.83	19.94	19.85	21.0	0.0	
100	256QAM	1	1	19.92	20.03	19.95	21.0	0.0	
Channel				646668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.03	20.17	19.96	21.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	19.99	20.20	20.00	21.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.06	20.10	20.00	21.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.10	20.09	20.01	21.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.09	20.16	19.93	21.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.07	20.11	19.94	21.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	20.01	20.15	19.80	21.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.00	20.14	19.96	21.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.06	20.13	20.00	21.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.10	20.10	19.93	21.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.03	20.11	19.97	21.0	0.0	

Part27Q n77 PC3&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				633000	633334	635001			
Frequency (MHz)				3495	3500.01				
100	P12 BPSK	1	1		20.26				
100	P12 BPSK	1	137				21.0	0.0	
100	P12 BPSK	1	271		20.07				
100	P12 BPSK	135	0		20.08		21.0	0.0	
100	P12 BPSK	135	69		20.03		21.0	0.0	
100	P12 BPSK	135	138		20.03		21.0	0.0	
100	P12 BPSK	270	0		20.20				
100	QPSK	1	1		20.26				
100	QPSK	1	137				21.0	0.0	
100	QPSK	1	271		20.18				
100	QPSK	135	0		20.08		21.0	0.0	
100	QPSK	135	69		20.23		21.0	0.0	
100	QPSK	135	138		20.10		21.0	0.0	
100	QPSK	270	0		20.17				
100	16QAM	1	1		20.12		21.0	0.0	
100	64QAM	1	1		19.99		21.0	0.0	
100	256QAM	1	1		20.00		21.0	0.0	
Channel				633000	633334	635068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3506.02			
90	QPSK	1	1	20.07	20.16	20.09	21.0	0.0	
Channel				633668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.02	3500.01	3510			
80	QPSK	1	1	20.08	20.20	20.20	21.0	0.0	
Channel				632234	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3493.01	3500.01	3516.01			
70	QPSK	1	1	20.09	20.16	20.14	21.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.00	3500.01	3526.02			
60	QPSK	1	1	20.05	20.24	20.19	21.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3500.01	3526			
50	QPSK	1	1	20.08	20.17	20.13	21.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	20.06	20.19	20.12	21.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	20.07	20.21	20.16	21.0	0.0	
Channel				630554	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	20.05	20.16	20.16	21.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3545			
20	QPSK	1	1	20.08	20.19	20.12	21.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.55	3500.01	3542.52			
15	QPSK	1	1	20.11	20.16	20.11	21.0	0.0	
Channel				630114	633334	636554	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	20.06	20.21	20.12	21.0	0.0	

Part27O n78 PC3 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				65000					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1		20.11				
100	PI2 BPSK	1	137		20.08		21.0	0.0	
100	PI2 BPSK	1	271		19.91				
100	PI2 BPSK	135	0		20.02		21.0	0.0	
100	PI2 BPSK	135	69		19.98		21.0	0.0	
100	PI2 BPSK	135	138		19.86		21.0	0.0	
100	PI2 BPSK	270	0		19.92				
100	QPSK	1	1		20.16		21.0	0.0	
100	QPSK	1	137		20.05				
100	QPSK	1	271		20.02				
100	QPSK	135	0		20.04		21.0	0.0	
100	QPSK	135	69		20.11		21.0	0.0	
100	QPSK	135	138		19.94		21.0	0.0	
100	QPSK	270	0		20.03				
100	16QAM	1	1		20.00		21.0	0.0	
100	64QAM	1	1		19.93		21.0	0.0	
100	256QAM	1	1		18.51		19.5	1.5	
Channel				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	19.93	20.04	19.98	21.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.00	20.13	20.00	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.01	20.11	20.06	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.00	20.04	20.06	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	19.92	20.02	20.00	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.03	20.11	20.06	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3750	3763.01			
30	QPSK	1	1	20.03	20.06	20.05	21.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3767.5			
25	QPSK	1	1	20.03	20.11	20.03	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3760.02			
20	QPSK	1	1	19.93	20.08	20.06	21.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3762.51			
15	QPSK	1	1	19.93	20.06	20.06	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	19.93	20.01	20.00	21.0	0.0	

Part27Q n78 PC3 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				63000					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		20.20				
100	PI2 BPSK	1	137		20.20		21.0	0.0	
100	PI2 BPSK	1	271		20.08				
100	PI2 BPSK	135	0		20.08		21.0	0.0	
100	PI2 BPSK	135	69		20.08		21.0	0.0	
100	PI2 BPSK	135	138		19.95		21.0	0.0	
100	PI2 BPSK	270	0		20.00				
100	QPSK	1	1		20.21		21.0	0.0	
100	QPSK	1	137		20.12				
100	QPSK	1	271		20.09				
100	QPSK	135	0		20.17		21.0	0.0	
100	QPSK	135	69		20.20		21.0	0.0	
100	QPSK	135	138		20.04		21.0	0.0	
100	QPSK	270	0		20.16				
100	16QAM	1	1		20.10		21.0	0.0	
100	64QAM	1	1		20.08		21.0	0.0	
100	256QAM	1	1		18.47		19.5	1.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	20.11	20.12	20.04	21.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	19.94	20.08	20.00	21.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	19.94	19.94	19.86	21.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	19.93	20.03	19.92	21.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	19.92	20.02	19.88	21.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	20.11	20.10	19.85	21.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3533.02			
30	QPSK	1	1	19.92	20.07	19.84	21.0	0.0	
Channel				630668	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	19.95	20.00	19.86	21.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	19.95	19.97	19.87	21.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	20.01	20.10	19.91	21.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	20.06	19.98	19.87	21.0	0.0	



n48 Part96 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				646000	641666	643332			
Frequency (MHz)				3600	3624.99	3649.98			
100	PV2 BPSK	1	1	23.17	23.28	23.17	24.0	0.0	
100	PV2 BPSK	1	137	23.15	23.22	23.17			
100	PV2 BPSK	1	271	23.09	23.16	23.09			
100	PV2 BPSK	135	0	22.58	22.73	22.60	23.5	0.5	
100	PV2 BPSK	135	69	23.10	23.23	23.09	24.0	0.0	
100	PV2 BPSK	135	138	22.64	22.78	22.73	23.5	0.5	
100	PV2 BPSK	270	0	22.73	22.80	22.65	24.0	0.0	
100	QPSK	1	1	23.24	23.34	23.26			
100	QPSK	1	137	23.20	23.31	23.23			
100	QPSK	1	271	23.13	23.22	23.08	23.0	1.0	
100	QPSK	135	0	22.23	22.28	22.21			
100	QPSK	135	69	23.19	23.29	23.26			
100	QPSK	135	138	22.15	22.22	22.13	23.0	1.0	
100	QPSK	270	0	22.16	22.30	22.19	23.0	1.0	
100	16QAM	1	1	21.85	21.93	21.79			
100	64QAM	1	1	20.39	20.44	20.34	21.5	2.5	
100	256QAM	1	1	18.91	19.04	18.89	19.5	4.5	
Channel				636999	641666	643666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99			
90	QPSK	1	1	23.18	23.25	23.22	24.0	0.0	
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3590.01	3624.99	3650			
80	QPSK	1	1	23.11	23.21	23.12	24.0	0.0	
Channel				638999	641666	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3589.02	3624.99	3669.99			
60	QPSK	1	1	23.12	23.20	23.23	24.0	0.0	
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3583.01	3624.99	3675			
50	QPSK	1	1	23.07	23.20	23.18	24.0	0.0	
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3570	3624.99	3679.98			
40	QPSK	1	1	23.09	23.24	23.21	24.0	0.0	
Channel				637666	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	23.12	23.19	23.16	24.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3550.01	3624.99	3690			
20	QPSK	1	1	22.08	22.22	22.11	24.0	0.0	
Channel				637168	641666	646168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	22.06	22.16	22.05	24.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	22.10	22.22	22.09	24.0	0.0	

Part270 n77 PC3 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	22.77	22.87	22.82	24.0	0.0	
100	PV2 BPSK	1	137	22.68	22.82	22.78			
100	PV2 BPSK	1	271	22.65	22.76	22.71			
100	PV2 BPSK	135	0	22.70	22.75	22.63	24.0	0.0	
100	PV2 BPSK	135	69	22.78	22.88	22.78	24.0	0.0	
100	PV2 BPSK	135	138	22.72	22.77	22.66	24.0	0.0	
100	PV2 BPSK	270	0	22.68	22.82	22.77	24.0	0.0	
100	QPSK	1	1	22.81	22.91	22.85			
100	QPSK	1	137	22.73	22.83	22.78			
100	QPSK	1	271	22.64	22.77	22.68	24.0	0.0	
100	QPSK	135	0	22.65	22.80	22.65			
100	QPSK	135	69	22.82	22.88	22.78			
100	QPSK	135	138	22.62	22.76	22.64	24.0	0.0	
100	QPSK	270	0	22.74	22.83	22.72	24.0	0.0	
100	16QAM	1	1	22.44	22.53	22.41			
100	64QAM	1	1	22.37	22.48	22.36	24.0	0.0	
100	256QAM	1	1	21.40	21.48	21.43	22.5	1.5	
Channel				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.44	22.47	22.42	24.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.44	22.49	22.45	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.39	22.57	22.51	24.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.42	22.53	22.48	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.40	22.51	22.49	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.42	22.49	22.51	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	22.38	22.56	22.44	24.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.41	22.50	22.49	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.45	22.48	22.49	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.38	22.53	22.49	24.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.44	22.48	22.43	24.0	0.0	

Part270 n77 PC2 Ant5 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	3840	3930			
100	PV2 BPSK	1	1	24.10	24.17	24.09	25.5	0.0	
100	PV2 BPSK	1	137	24.06	24.15	24.03			
100	PV2 BPSK	1	271	24.04	24.11	24.05			
100	PV2 BPSK	135	0	24.04	24.13	24.05	25.5	0.0	
100	PV2 BPSK	135	69	24.17	24.21	24.15	25.5	0.0	
100	PV2 BPSK	135	138	23.97	24.00	23.89	25.5	0.0	
100	PV2 BPSK	270	0	24.06	24.14	24.10	25.5	0.0	
100	QPSK	1	1	24.22	24.25	24.17			
100	QPSK	1	137	24.11	24.20	24.15			
100	QPSK	1	271	24.09	24.13	24.04	24.0	0.0	
100	QPSK	135	0	24.06	24.16	24.09			
100	QPSK	135	69	24.06	24.19	24.07			
100	QPSK	135	138	24.01	24.09	23.99	25.5	0.0	
100	QPSK	270	0	24.00	24.09	24.02	25.5	0.0	
100	16QAM	1	1	23.95	24.09	23.97	25.5	0.0	
100	64QAM	1	1	22.62	22.72	22.62	24.5	1.0	
100	256QAM	1	1	21.34	21.44	21.30	22.5	3.0	
Channel				649698	650000	650234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	24.08	24.10	24.09	25.5	0.0	
Channel				649334	650000	650698	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.18	24.21	24.04	25.5	0.0	
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	24.17	24.21	24.12	25.5	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3930.01			
60	QPSK	1	1	24.16	24.22	24.09	25.5	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	24.13	24.13	24.12	25.5	0.0	
Channel				648000	650000	650400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	24.13	24.20	24.08	25.5	0.0	
Channel				647668	650000	650434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	24.18	24.20	24.13	25.5	0.0	
Channel				647334	650000	650500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	24.18	24.20	24.09	25.5	0.0	
Channel				647168	650000	650434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	24.16	24.15	24.11	25.5	0.0	
Channel				647000	650000	650600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	24.15	24.18	24.12	25.5	0.0	

Part27Q n77 PC3 Ant5 Default

BW [MHz]	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			24.0	0.0
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1		23.20		24.0	0.0
100	PI2 BPSK	1	137		23.15			
100	PI2 BPSK	1	271		22.98			
100	PI2 BPSK	135	0		23.13			
100	PI2 BPSK	135	69		23.16		24.0	0.0
100	PI2 BPSK	135	138		22.98		24.0	0.0
100	PI2 BPSK	270	0		23.14		24.0	0.0
100	QPSK	1	1		23.20			
100	QPSK	1	137		23.15			
100	QPSK	1	271		22.98			
100	QPSK	135	0		23.10		24.0	0.0
100	QPSK	135	69		23.17		24.0	0.0
100	QPSK	135	138		23.01		24.0	0.0
100	QPSK	270	0		23.13			
100	16QAM	1	1		22.98			
100	64QAM	1	1		23.03			
100	256QAM	1	1		22.07		22.5	1.5
Channel				633090	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.08	23.11	23.04	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.10	23.19	23.06	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.06	23.17	23.10	24.0	0.0
Channel				632090	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.13	23.12	23.02	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.15	23.10	23.04	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.08	23.15	23.07	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.09	23.17	23.07	24.0	0.0
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	23.06	23.08	23.00	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.14	23.17	23.03	24.0	0.0
Channel				630590	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	23.09	23.15	23.01	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	23.09	23.14	23.08	24.0	0.0

Part27Q n77 PC2 Ant5 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				633334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1		24.80		25.5	0.0
100	PI2 BPSK	1	137		24.73			
100	PI2 BPSK	1	271		24.65			
100	PI2 BPSK	135	0		24.60			
100	PI2 BPSK	135	69		24.70		25.5	0.0
100	PI2 BPSK	135	138		24.61		25.5	0.0
100	PI2 BPSK	270	0		24.66			
100	QPSK	1	1		24.84			
100	QPSK	1	137		24.80			
100	QPSK	1	271		24.67		25.5	0.0
100	QPSK	135	0		24.71		25.5	0.0
100	QPSK	135	69		24.78		25.5	0.0
100	QPSK	135	138		24.64		25.5	0.0
100	QPSK	270	0		24.70			
100	16QAM	1	1		24.55			
100	64QAM	1	1		23.52		24.5	1.0
100	256QAM	1	1		22.26		22.5	3.0
Channel				633090	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	24.61	24.69	24.85	25.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.61	24.70	24.66	25.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	24.63	24.80	24.72	25.5	0.0
Channel				632090	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	24.66	24.70	24.73	25.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	24.65	24.75	24.68	25.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.71	24.78	24.66	25.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.61	24.69	24.66	25.5	0.0
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	24.62	24.72	24.68	25.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	24.65	24.78	24.71	25.5	0.0
Channel				630590	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	24.71	24.79	24.75	25.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	24.63	24.76	24.77	25.5	0.0

Part270 n78 PC3 Ant5 Default

BW [MHz]	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)				3750				
100	PI/2 BPSK	1	1		22.84		24.0	0.0
100	PI/2 BPSK	1	137		22.76			
100	PI/2 BPSK	1	271		22.85			
100	PI/2 BPSK	135	0		22.43			
100	PI/2 BPSK	135	69		22.80		24.0	0.0
100	PI/2 BPSK	135	138		22.37		23.5	0.5
100	PI/2 BPSK	270	0		22.44		24.0	0.0
100	QPSK	1	1		22.86			
100	QPSK	1	137		22.81			
100	QPSK	1	271		22.74			
100	QPSK	135	0		22.04		23.0	1.0
100	QPSK	135	69		22.62		24.0	0.0
100	QPSK	135	138		21.96		23.0	1.0
100	QPSK	270	0		22.03		23.0	1.0
100	16QAM	1	1		21.69			
100	64QAM	1	1		20.22			
100	256QAM	1	1		18.62			
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	22.55	22.64	22.49	24.0	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	22.50	22.61	22.53	24.0	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	22.52	22.63	22.47	24.0	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	22.57	22.56	22.51	24.0	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	22.53	22.65	22.56	24.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	22.57	22.60	22.47	24.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	22.50	22.60	22.53	24.0	0.0
Channel				647334	650000	652500	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
25	QPSK	1	1	22.52	22.56	22.48	24.0	0.0
Channel				647000	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3705.01	3750	3795.02	(dBm)	(dB)
20	QPSK	1	1	22.54	22.64	22.49	24.0	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1	22.49	22.55	22.48	24.0	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	22.57	22.62	22.51	24.0	0.0

Part27Q n78 PC3 Ant5 Default

BW [MHz]	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		23.27		24.0	0.0
100	PI/2 BPSK	1	137		23.19			
100	PI/2 BPSK	1	271		23.23			
100	PI/2 BPSK	135	0		22.72			
100	PI/2 BPSK	135	69		23.24		24.0	0.0
100	PI/2 BPSK	135	138		22.66		23.5	0.5
100	PI/2 BPSK	270	0		22.70		24.0	0.0
100	QPSK	1	1		23.33			
100	QPSK	1	137		23.28			
100	QPSK	1	271		23.26			
100	QPSK	135	0		22.51		23.0	1.0
100	QPSK	135	69		23.28		24.0	0.0
100	QPSK	135	138		22.92		23.0	1.0
100	QPSK	270	0		22.39		23.0	1.0
100	16QAM	1	1		22.27			
100	64QAM	1	1		20.82			
100	256QAM	1	1		18.96			
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	23.25	23.25	22.83	24.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	23.14	23.29	22.89	24.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	23.18	23.26	22.92	24.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	23.14	23.18	22.87	24.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	23.17	23.30	22.94	24.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	23.17	23.28	22.83	24.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	23.16	23.19	22.89	24.0	0.0
Channel				630834	633334	635834	Tune-up limit	MPR
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)
25	QPSK	1	1	23.19	23.23	22.93	24.0	0.0
Channel				630568	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.69	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	23.24	23.19	22.91	24.0	0.0
Channel				630500	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	23.19	23.27	22.84	24.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	23.23	23.29	22.87	24.0	0.0

n41 PC2&PC3 Ant6 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				500202	518598	539000	21.0	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	19.72	19.63	19.59	21.0	0.0	
100	PV2 BPSK	1	137	19.64	19.79	19.61			
100	PV2 BPSK	1	271	19.43	19.76	19.98	21.0	0.0	
100	PV2 BPSK	135	0	19.75	19.69	19.69			
100	PV2 BPSK	135	69	19.61	19.59	19.48	21.0	0.0	
100	PV2 BPSK	135	138	19.50	19.62	19.53		21.0	
100	PV2 BPSK	270	0	19.57	19.72	19.54	21.0	0.0	
100	QPSK	1	1	19.49	19.92	19.50			
100	QPSK	1	137	19.50	19.67	19.48	21.0	0.0	
100	QPSK	1	271	19.55	19.78	19.71			
100	QPSK	135	0	19.49	19.72	19.66	21.0	0.0	
100	QPSK	135	69	19.59	19.90	19.75		21.0	
100	QPSK	135	138	19.55	19.67	19.77	21.0	0.0	
100	QPSK	270	0	19.64	19.73	19.70			
100	16QAM	1	1	19.52	19.63	19.61	21.0	0.0	
100	64QAM	1	1	19.77	19.66	19.59		21.0	
100	256QAM	1	1	19.43	19.77	19.56		21.0	
Channel				500200	518598	539998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.82	19.73	19.54	21.0	0.0	
Channel				507204	518598	529998		Tune-up limit (dBm)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	19.63	19.82	19.60	21.0	0.0	
Channel				506202	518598	531000		Tune-up limit (dBm)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.58	19.66	19.77	21.0	0.0	
Channel				505200	518598	531996		Tune-up limit (dBm)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.77	19.71	19.65	21.0	0.0	
Channel				504204	518598	532998		Tune-up limit (dBm)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	19.71	19.78	19.72	21.0	0.0	
Channel				503202	518598	534000		Tune-up limit (dBm)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.55	19.83	19.72	21.0	0.0	
Channel				502200	518598	534996		Tune-up limit (dBm)	
Frequency (MHz)				2511	2592.99	2714.98			
30	QPSK	1	1	19.65	19.80	19.67	21.0	0.0	
Channel				501204	518598	535998		Tune-up limit (dBm)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.78	19.75	19.55	21.0	0.0	
Channel				500700	518598	536496		Tune-up limit (dBm)	
Frequency (MHz)				2501.5	2592.99	2682.48			
15	QPSK	1	1	19.56	19.78	19.75	21.0	0.0	
Channel				500202	518598	537000		Tune-up limit (dBm)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	19.61	19.72	19.67	21.0	0.0	
Channel									



n48 Part96 Ant7 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				646000	641666	643332			
Frequency (MHz)				3600	3624.99	3649.98			
100	P12 BPSK	1	1	17.61	17.68	17.64	19.0	0.0	
100	P12 BPSK	1	137	17.55	17.63	17.59			
100	P12 BPSK	1	271	17.55	17.60	17.47			
100	P12 BPSK	135	0	17.48	17.59	17.55	19.0	0.0	
100	P12 BPSK	135	69	17.57	17.64	17.60	19.0	0.0	
100	P12 BPSK	135	138	17.46	17.58	17.45	19.0	0.0	
100	P12 BPSK	270	0	17.50	17.62	17.48	19.0	0.0	
100	QPSK	1	1	17.61	17.74	17.67			
100	QPSK	1	137	17.64	17.70	17.56			
100	QPSK	1	271	17.57	17.68	17.57	19.0	0.0	
100	QPSK	135	0	17.50	17.62	17.56			
100	QPSK	135	69	17.61	17.69	17.55			
100	QPSK	135	138	17.48	17.60	17.46	19.0	0.0	
100	QPSK	270	0	17.55	17.63	17.54	19.0	0.0	
100	16QAM	1	1	17.55	17.61	17.53			
100	64QAM	1	1	17.47	17.55	17.43			
100	256QAM	1	1	17.35	17.47	17.40	19.0	0.0	
Channel				639999	641666	643666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99	19.0	0.0	
90	QPSK	1	1	17.50	17.60	17.59	19.0	0.0	
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3590.01	3624.99	3660	19.0	0.0	
80	QPSK	1	1	17.59	17.68	17.62	19.0	0.0	
Channel				639999	641666	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3580.02	3624.99	3669.99	19.0	0.0	
60	QPSK	1	1	17.48	17.62	17.55	19.0	0.0	
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3625.01	3624.99	3675	19.0	0.0	
50	QPSK	1	1	17.47	17.63	17.63	19.0	0.0	
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3570	3624.99	3679.98	19.0	0.0	
40	QPSK	1	1	17.52	17.59	17.54	19.0	0.0	
Channel				637666	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99	19.0	0.0	
30	QPSK	1	1	17.47	17.69	17.61	19.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3520.01	3624.99	3690	19.0	0.0	
20	QPSK	1	1	17.48	17.60	17.59	19.0	0.0	
Channel				637168	641666	646168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49	19.0	0.0	
15	QPSK	1	1	17.52	17.70	17.60	19.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3655	3624.99	3694.98	19.0	0.0	
10	QPSK	1	1	17.55	17.71	17.60	19.0	0.0	

Part270 n77 PC2 Ant7 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	3840	3930			
100	P12 BPSK	1	1	18.65	18.69	18.56	19.8	0.0	
100	P12 BPSK	1	137	18.62	18.66	18.59			
100	P12 BPSK	1	271	18.50	18.61	18.56			
100	P12 BPSK	135	0	18.43	18.47	18.36	19.8	0.0	
100	P12 BPSK	135	69	18.60	18.63	18.54	19.8	0.0	
100	P12 BPSK	135	138	18.35	18.40	18.29	19.8	0.0	
100	P12 BPSK	270	0	18.39	18.51	18.47	19.8	0.0	
100	QPSK	1	1	18.67	18.72	18.63			
100	QPSK	1	137	18.56	18.67	18.61			
100	QPSK	1	271	18.52	18.64	18.54	19.8	0.0	
100	QPSK	135	0	18.48	18.58	18.52			
100	QPSK	135	69	18.59	18.67	18.56			
100	QPSK	135	138	18.44	18.59	18.53	19.8	0.0	
100	QPSK	270	0	18.48	18.62	18.53	19.8	0.0	
100	16QAM	1	1	18.43	18.57	18.50			
100	64QAM	1	1	18.40	18.44	18.31			
100	256QAM	1	1	18.42	18.49	18.37	19.8	0.0	
Channel				646668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.53	18.60	18.48	19.8	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.58	18.68	18.59	19.9	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.56	18.62	18.49	19.8	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.62	18.59	18.48	19.8	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.53	18.62	18.50	19.8	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.62	18.68	18.55	19.8	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3965.01			
30	QPSK	1	1	18.57	18.64	18.50	19.9	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	18.58	18.67	18.48	19.8	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.54	18.66	18.60	19.8	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.56	18.62	18.45	19.8	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.56	18.60	18.50	19.8	0.0	

Part27Q n77 PC2 Ant7 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	633334			
Frequency (MHz)				3500.01					
100	P12 BPSK	1	1		18.79		19.8	0.0	
100	P12 BPSK	1	137		18.69				
100	P12 BPSK	1	271		18.71				
100	P12 BPSK	135	0			18.54	19.8	0.0	
100	P12 BPSK	135	69			18.70	19.8	0.0	
100	P12 BPSK	135	138			18.51	19.8	0.0	
100	P12 BPSK	270	0			18.57			
100	QPSK	1	1		18.82				
100	QPSK	1	137			18.73	19.8	0.0	
100	QPSK	1	271			18.69			
100	QPSK	135	0			18.62			
100	QPSK	135	69			18.73	19.8	0.0	
100	QPSK	135	138			18.59	19.8	0.0	
100	QPSK	270	0			18.63			
100	16QAM	1	1			18.61			
100	64QAM	1	1			18.49	19.8	0.0	
100	256QAM	1	1			18.60	19.8	0.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		18.74	18.78	18.83	19.8	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	19.8	0.0	
80	QPSK	1	1		18.71	18.75	18.63	19.8	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	19.8	0.0	
70	QPSK	1	1		18.68	18.75	18.66	19.8	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	19.8	0.0	
60	QPSK	1	1		18.73	18.74	18.66	19.8	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	19.8	0.0	
50	QPSK	1	1		18.71	18.77	18.65	19.8	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	19.8	0.0	
40	QPSK	1	1		18.66	18.77	18.59	19.8	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	19.8	0.0	
30	QPSK	1	1		18.64	18.71	18.60	19.8	0.0
Channel				630668	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51	19.8	0.0	
25	QPSK	1	1		18.66	18.76	18.60	19.8	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.05	3500.01	3540	19.8	0.0	
20	QPSK	1	1		18.67	18.76	18.63	19.8	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.6	3500.01	3542.52	19.8	0.0	
15	QPSK	1	1		18.69	18.72	18.59	19.8	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	19.8	0.0	
10	QPSK	1	1		18.66	18.70	18.57	19.8	0.0

Part27O n78 PC3 Ant7 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				3750			19.5	0.0			
Frequency (MHz)											
100	PI2 BPSK	1	1	17.88							
100	PI2 BPSK	1	137	17.83							
100	PI2 BPSK	1	271	17.78			19.5				
100	PI2 BPSK	135	0	17.78			19.5				
100	PI2 BPSK	135	69	17.82			19.5				
100	PI2 BPSK	135	138	17.79			19.5				
100	PI2 BPSK	270	0	17.81			19.5				
100	QPSK	1	1	17.93			19.5				
100	QPSK	1	137	17.81			19.5				
100	QPSK	1	271	17.87			19.5				
100	QPSK	135	0	17.73			19.5				
100	QPSK	135	69	17.86			19.5				
100	QPSK	135	138	17.71			19.5				
100	QPSK	270	0	17.78			19.5				
100	16QAM	1	1	17.74			19.5				
100	64QAM	1	1	17.74			19.5				
100	256QAM	1	1	17.62			19.5				
Channel				649868	650000	650234	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3745.02	3750	3755.01					
90	QPSK	1	1	17.84	17.86	17.70	19.5	0.0			
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3740.01	3750	3760.02					
80	QPSK	1	1	17.75	17.80	17.71	19.5	0.0			
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3735	3750	3765					
70	QPSK	1	1	17.78	17.83	17.80	19.5	0.0			
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3730.02	3750	3770.01					
60	QPSK	1	1	17.76	17.84	17.74	19.5	0.0			
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3725.01	3750	3775.02					
50	QPSK	1	1	17.81	17.86	17.77	19.5	0.0			
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3720	3750	3780					
40	QPSK	1	1	17.83	17.82	17.80	19.5	0.0			
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3715.02	3750	3765.01					
30	QPSK	1	1	17.76	17.80	17.73	19.5	0.0			
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3710.01	3750	3760.02					
25	QPSK	1	1	17.81	17.88	17.71	19.5	0.0			
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3710.01	3750	3760.02					
20	QPSK	1	1	17.81	17.83	17.79	19.5	0.0			
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3707.52	3750	3762.51					
15	QPSK	1	1	17.77	17.86	17.81	19.5	0.0			
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3705	3750	3795					
10	QPSK	1	1	17.74	17.84	17.72	19.5	0.0			

Part27Q n78 PC3 Ant7 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				3500.01			19.5	0.0			
Frequency (MHz)											
100	PI2 BPSK	1	1	18.45							
100	PI2 BPSK	1	137	18.37							
100	PI2 BPSK	1	271	18.32			19.5				
100	PI2 BPSK	135	0	18.29			19.5				
100	PI2 BPSK	135	69	18.43			19.5				
100	PI2 BPSK	135	138	18.36			19.5				
100	PI2 BPSK	270	0	18.41			19.5				
100	QPSK	1	1	18.49			19.5				
100	QPSK	1	137	18.42			19.5				
100	QPSK	1	271	18.37			19.5				
100	QPSK	135	0	18.32			19.5				
100	QPSK	135	69	18.43			19.5				
100	QPSK	135	138	18.32			19.5				
100	QPSK	270	0	18.38			19.5				
100	16QAM	1	1	18.30			19.5				
100	64QAM	1	1	18.26			19.5				
100	256QAM	1	1	18.22			19.5				
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3495	3500.01	3505.02					
90	QPSK	1	1	18.38	18.42	18.39	19.5	0.0			
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3490.02	3500.01	3510					
80	QPSK	1	1	18.41	18.41	18.32	19.5	0.0			
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3485.01	3500.01	3515.01					
70	QPSK	1	1	18.39	18.45	18.31	19.5	0.0			
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3480	3500.01	3520.02					
60	QPSK	1	1	18.39	18.44	18.35	19.5	0.0			
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3475.02	3500.01	3525					
50	QPSK	1	1	18.34	18.37	18.30	19.5	0.0			
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3470.01	3500.01	3530.01					
40	QPSK	1	1	18.36	18.40	18.30	19.5	0.0			
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3465	3500.01	3535.02					
30	QPSK	1	1	18.41	18.39	18.29	19.5	0.0			
Channel				630668	633334	635934	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3462.51	3500.01	3537.51					
25	QPSK	1	1	18.32	18.45	18.33	19.5	0.0			
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3460.02	3500.01	3540					
20	QPSK	1	1	18.31	18.37	18.34	19.5	0.0			
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3457.5	3500.01	3542.52					
15	QPSK	1	1	18.35	18.40	18.38	19.5	0.0			
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3455.01	3500.01	3545.01					
10	QPSK	1	1	18.35	18.42	18.30	19.5	0.0			



Reduced Power Mode for EC14

n2 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				1670	1680	1690	24.0	0.0
Frequency (MHz)				1670	1680	1690		
40	PI2 BPSK	1	1	23.15	23.22	23.15		
40	PI2 BPSK	1	108	23.11	23.10	23.13		
40	PI2 BPSK	1	214	22.96	23.17	23.11	23.5	0.5
40	PI2 BPSK	108	0	22.39	22.58	22.39		
40	PI2 BPSK	108	54	22.53	23.04	23.15		
40	PI2 BPSK	108	108	23.51	22.49	22.43		
40	PI2 BPSK	216	0	22.50	22.71	22.44	23.0	1.0
40	QPSK	1	1	23.05	23.26	23.13		
40	QPSK	1	108	22.53	23.03	22.85		
40	QPSK	1	214	22.53	23.06	22.77		
40	QPSK	108	0	21.50	22.04	22.16	24.0	0.0
40	QPSK	108	54	23.04	23.25	23.16		
40	QPSK	108	108	22.01	22.05	22.05		
40	QPSK	216	0	22.26	22.33	22.15		
40	16QAM	1	1	21.79	21.87	21.63	23.0	1.0
40	64QAM	1	1	20.27	20.34	20.22		
40	256QAM	1	1	18.81	18.94	18.88		
40	256QAM	1	1	18.81	18.94	18.88		
Channel				37300	37600	37800	24.0	0.0
Frequency (MHz)				37300	37600	37800		
30	QPSK	1	1	22.49	23.19	23.10		
30	QPSK	1	1	22.49	23.19	23.10		
Channel				37200	37600	37600	24.0	0.0
Frequency (MHz)				37200	37600	37600		
25	QPSK	1	1	22.97	23.21	23.11		
25	QPSK	1	1	22.97	23.21	23.11		
Channel				37200	37600	38000	24.0	0.0
Frequency (MHz)				37200	37600	38000		
20	QPSK	1	1	22.86	23.20	23.09		
20	QPSK	1	1	22.86	23.20	23.09		
Channel				37100	37600	38050	24.0	0.0
Frequency (MHz)				37100	37600	38050		
15	QPSK	1	1	22.97	23.12	23.05		
15	QPSK	1	1	22.97	23.12	23.05		
Channel				37000	37600	38100	24.0	0.0
Frequency (MHz)				37000	37600	38100		
10	QPSK	1	1	22.93	23.14	23.07		
10	QPSK	1	1	22.93	23.14	23.07		
Channel				37000	37600	38150	24.0	0.0
Frequency (MHz)				37000	37600	38150		
5	QPSK	1	1	22.96	23.10	23.11		
5	QPSK	1	1	22.96	23.10	23.11		

n5 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				16680	16730	16780	24.0	0.0
Frequency (MHz)				16680	16730	16780		
20	PI2 BPSK	1	1	22.88	23.01	22.94		
20	PI2 BPSK	1	53	22.69	22.73	22.73		
20	PI2 BPSK	1	104	22.64	22.66	22.61	23.5	0.5
20	PI2 BPSK	50	0	22.36	22.47	22.45		
20	PI2 BPSK	50	26	22.78	22.81	22.75		
20	PI2 BPSK	50	56	22.25	22.29	22.16		
20	PI2 BPSK	100	0	22.27	22.44	22.33	24.0	0.0
20	QPSK	1	1	22.90	23.03	22.85		
20	QPSK	1	53	22.56	22.71	22.66		
20	QPSK	1	104	22.63	22.74	22.67		
20	QPSK	50	0	21.90	21.90	21.90	24.0	0.0
20	QPSK	50	26	22.82	22.94	22.86		
20	QPSK	50	56	21.70	21.77	21.65		
20	QPSK	100	0	21.87	21.92	21.86		
20	16QAM	1	1	21.62	21.59	21.59	23.0	1.0
20	64QAM	1	1	20.20	20.25	20.13		
20	256QAM	1	1	18.74	18.81	18.68		
20	256QAM	1	1	18.74	18.81	18.68		
Channel				16630	16730	16830	24.0	0.0
Frequency (MHz)				16630	16730	16830		
15	QPSK	1	1	22.85	23.01	22.79		
15	QPSK	1	1	22.85	23.01	22.79		
Channel				16580	16730	16830	24.0	0.0
Frequency (MHz)				16580	16730	16830		
10	QPSK	1	1	22.75	22.94	22.79		
10	QPSK	1	1	22.75	22.94	22.79		
Channel				16530	16730	16930	24.0	0.0
Frequency (MHz)				16530	16730	16930		
5	QPSK	1	1	22.81	22.95	22.73		
5	QPSK	1	1	22.81	22.95	22.73		

n7 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50500	50700	50900	24.0	0.0
Frequency (MHz)				50500	50700	50900		
50	PI2 BPSK	1	1	22.73	22.79	22.65		
50	PI2 BPSK	1	135	22.67	22.88	22.82		
50	PI2 BPSK	1	268	22.59	22.64	22.65	23.5	0.5
50	PI2 BPSK	135	0	22.22	22.37	22.25		
50	PI2 BPSK	135	68	22.77	22.79	22.77		
50	PI2 BPSK	135	135	22.14	22.19	22.05		
50	PI2 BPSK	270	0	22.06	22.21	22.10	24.0	0.0
50	QPSK	1	1	22.93	22.96	22.77		
50	QPSK	1	135	22.69	22.76	22.76		
50	QPSK	1	268	22.52	22.70	22.56		
50	QPSK	135	0	22.05	22.20	22.11	23.0	1.0
50	QPSK	135	68	22.88	22.90	22.84		
50	QPSK	135	135	21.75	21.91	21.83		
50	QPSK	270	0	21.79	21.92	21.88		
50	16QAM	1	1	21.35	21.41	21.43	23.0	1.0
50	64QAM	1	1	19.88	20.06	19.92		
50	256QAM	1	1	18.68	18.72	18.68		
50	256QAM	1	1	18.68	18.72	18.68		
Channel				50400	50700	51000	24.0	0.0
Frequency (MHz)				50400	50700	51000		
40	QPSK	1	1	22.85	22.82	22.83		
40	QPSK	1	1	22.85	22.82	22.83		
Channel				50300	50700	51100	24.0	0.0
Frequency (MHz)				50300	50700	51100		
30	QPSK	1	1	22.85	22.86	22.65		
30	QPSK	1	1	22.85	22.86	22.65		
Channel				50200	50700	51150	24.0	0.0
Frequency (MHz)				50200	50700	51150		
25	QPSK	1	1	22.88	22.85	22.72		
25	QPSK	1	1	22.88	22.85	22.72		
Channel				50200	50700	51200	24.0	0.0
Frequency (MHz)				50200	50700	51200		
20	QPSK	1	1	22.86	22.90	22.72		
20	QPSK	1	1	22.86	22.90	22.72		
Channel				50100	50700	51250	24.0	0.0
Frequency (MHz)				50100	50700	51250		
15	QPSK	1	1	22.87	22.84	22.74		
15	QPSK	1	1	22.87	22.84	22.74		
Channel				50100	50700	51300	24.0	0.0
Frequency (MHz)				50100	50700	51300		
10	QPSK	1	1	22.79	22.86	22.73		
10	QPSK	1	1	22.79	22.86	22.73		
Channel				50050	50700	51350	24.0	0.0
Frequency (MHz)				50050	50700	51350		
5	QPSK	1	1	22.80	22.91	22.84		
5	QPSK	1	1	22.80	22.91	22.84		



n12 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				700.5	707.5	710.5		
Frequency (MHz)				141300	141500	141700		
15	PV2 BPSK	1	1	22.81	22.98	22.97	24.0	0.0
15	PV2 BPSK	1	40	22.95	22.98	22.77		
15	PV2 BPSK	1	77	22.89	22.75	22.72		
15	PV2 BPSK	36	0	22.37	22.45	22.32	23.5	0.5
15	PV2 BPSK	36	22	22.70	22.92	22.67	24.0	0.0
15	PV2 BPSK	36	43	21.99	22.05	21.94	23.5	0.5
15	PV2 BPSK	75	0	22.22	22.38	22.18		
15	QPSK	1	1	22.95	23.07	22.81	24.0	0.0
15	QPSK	1	40	22.72	22.97	22.84		
15	QPSK	1	77	22.71	22.83	22.88		
15	QPSK	36	0	21.82	22.07	21.98	23.0	1.0
15	QPSK	36	22	22.82	22.88	22.64	24.0	0.0
15	QPSK	36	43	21.89	21.65	21.52	23.0	1.0
15	QPSK	75	0	21.72	21.77	21.66		
15	16QAM	1	1	21.75	21.78	21.72	23.0	1.0
15	64QAM	1	1	20.08	20.20	20.25	21.5	2.5
	256QAM	1	1	18.75	18.99	18.78	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.78	22.87	22.89	24.0	0.0
Channel				140300	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.74	22.87	22.83	24.0	0.0

n14 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				700.5	703	706.5		
Frequency (MHz)				158100	158600	159100		
10	PV2 BPSK	1	1		23.12		24.0	0.0
10	PV2 BPSK	1	26		23.05			
10	PV2 BPSK	1	50		22.94			
10	PV2 BPSK	25	0		22.67		23.5	0.5
10	PV2 BPSK	25	14		23.01		24.0	0.0
10	PV2 BPSK	25	27		22.81		23.5	0.5
10	PV2 BPSK	50	0		22.65			
10	QPSK	1	1		23.33		24.0	0.0
10	QPSK	1	26		23.12			
10	QPSK	1	50		23.04			
10	QPSK	25	0		22.23		23.0	1.0
10	QPSK	25	14		23.29		24.0	0.0
10	QPSK	25	27		22.20		23.0	1.0
10	QPSK	50	0		22.28			
10	16QAM	1	1		21.86		23.0	1.0
10	64QAM	1	1		20.53		21.5	2.5
10	256QAM	1	1		19.10		19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	703	705.5		
5	QPSK	1	1	23.23	23.30	23.26	24.0	0.0

n25 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374000	376500	379000		
Frequency (MHz)				1870	1892.5	1900		
40	PV2 BPSK	1	1	23.14	23.21	23.97	24.0	0.0
40	PV2 BPSK	1	108	23.07	23.17	23.01		
40	PV2 BPSK	1	214	22.83	23.13	22.80		
40	PV2 BPSK	108	0	22.42	22.49	22.54	23.5	0.5
40	PV2 BPSK	108	56	23.28	23.31	23.08	24.0	0.0
40	PV2 BPSK	108	108	22.55	22.58	22.48	23.5	0.5
40	PV2 BPSK	216	0	22.65	22.65	22.63		
40	QPSK	1	1	23.27	23.34	23.28	24.0	0.0
40	QPSK	1	108	23.10	23.16	23.22		
40	QPSK	1	214	22.95	23.22	23.11		
40	QPSK	108	0	21.94	22.18	21.95	23.0	1.0
40	QPSK	108	54	23.05	23.12	23.08	24.0	0.0
40	QPSK	108	108	22.02	22.01	22.01	23.0	1.0
40	QPSK	216	0	22.28	22.29	22.20		
40	16QAM	1	1	21.57	21.76	21.57	23.0	1.0
40	64QAM	1	1	20.15	20.40	20.24	21.5	2.5
40	256QAM	1	1	18.93	18.94	18.80	19.5	4.5
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1892.5	1900		
30	QPSK	1	1	23.13	23.23	23.34	24.0	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1892.5	1902.5		
25	QPSK	1	1	23.09	23.17	23.13	24.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1892.5	1904		
20	QPSK	1	1	23.29	23.33	23.11	24.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1892.5	1907.5		
15	QPSK	1	1	23.08	23.12	23.23	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1892.5	1910		
10	QPSK	1	1	23.08	23.13	23.20	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1892.5	1912.5		
5	QPSK	1	1	23.17	23.22	23.21	24.0	0.0



n26 Ant0 Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.99	23.08	23.04	24.0	0.0
20	PI2 BPSK	1	53	22.80	22.94	22.75		
20	PI2 BPSK	1	104	22.75	22.76	22.63		
20	PI2 BPSK	50	0	22.51	22.62	22.55	23.5	0.5
20	PI2 BPSK	50	28	22.63	22.66	22.56	24.0	0.0
20	PI2 BPSK	50	56	22.56	22.41	22.26	23.5	0.5
20	PI2 BPSK	100	0	22.38	22.49	22.35		
20	QPSK	1	1	23.07	23.16	23.05		
20	QPSK	1	53	22.79	22.91	22.84	24.0	0.0
20	QPSK	1	104	22.73	22.76	22.68		
20	QPSK	50	0	22.01	22.12	22.11	23.0	1.0
20	QPSK	50	28	22.95	23.00	22.82	24.0	0.0
20	QPSK	50	56	21.82	21.87	21.70	23.0	1.0
20	QPSK	100	0	21.91	21.94	21.86		
20	16QAM	1	1	21.78	21.86	21.80	23.0	1.0
20	64QAM	1	1	20.31	20.46	20.42	21.5	2.5
20	256QAM	1	1	19.05	19.02	19.00	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.99	23.02	22.84	24.0	0.0
Channel				165000	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.01	23.08	23.00	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.92	23.04	22.92	24.0	0.0

n30 Ant0 Default								
BW (MHz)	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	PI2 BPSK	1	1		23.30		24.0	0.0
10	PI2 BPSK	1	26		23.40			
10	PI2 BPSK	1	50		23.38			
10	PI2 BPSK	25	0		22.88		23.5	0.5
10	PI2 BPSK	25	14		23.36		24.0	0.0
10	PI2 BPSK	25	27		22.97		23.5	0.5
10	PI2 BPSK	50	0		22.89			
10	QPSK	1	1		23.49			
10	QPSK	1	26		23.31		24.0	0.0
10	QPSK	1	50		23.34			
10	QPSK	25	0		23.38		23.0	1.0
10	QPSK	25	14		23.42		24.0	0.0
10	QPSK	25	27		22.30		23.0	1.0
10	QPSK	50	0		22.38			
10	16QAM	1	1		21.86		23.0	1.0
10	64QAM	1	1		20.45		21.5	2.5
10	256QAM	1	1		19.21		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	23.32	23.41	23.13	24.0	0.0

n66 Ant0 Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	350000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	23.07	23.18	23.03	24.0	0.0
40	PI2 BPSK	1	108	23.07	23.12	22.99		
40	PI2 BPSK	1	214	23.01	23.05	22.94		
40	PI2 BPSK	108	0	22.55	22.63	22.56	23.5	0.5
40	PI2 BPSK	108	54	23.03	23.08	22.98	24.0	0.0
40	PI2 BPSK	108	108	22.43	22.51	22.48	23.5	0.5
40	PI2 BPSK	216	0	22.44	22.52	22.43		
40	QPSK	1	1	23.15	23.24	23.20		
40	QPSK	1	108	23.14	23.19	23.07	24.0	0.0
40	QPSK	1	214	23.00	23.13	23.01		
40	QPSK	108	0	22.01	22.15	22.11	23.0	1.0
40	QPSK	108	54	23.12	23.18	23.15	24.0	0.0
40	QPSK	108	108	21.95	22.00	21.91	23.0	1.0
40	QPSK	216	0	22.06	22.13	22.10		
40	16QAM	1	1	21.72	21.82	21.77	23.0	1.0
40	64QAM	1	1	20.22	20.30	20.27	21.5	2.5
40	256QAM	1	1	18.89	18.82	18.78	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.09	23.10	23.17	24.0	0.0
Channel				344000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.09	23.12	23.11	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.08	23.19	23.10	24.0	0.0
Channel				343000	348000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.04	23.12	23.17	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.02	23.19	23.14	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.06	23.19	23.07	24.0	0.0



n70 Ant0 Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				340500	340590			
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	23.09			24.0	0.0
15	PI2 BPSK	1	40	22.98				
15	PI2 BPSK	1	77	23.18				
15	PI2 BPSK	36	0	22.84			23.5	0.5
15	PI2 BPSK	36	22	23.04			24.0	0.0
15	PI2 BPSK	36	43	22.54			23.5	0.5
15	PI2 BPSK	75	0	22.53				
15	QPSK	1	1	23.28				
15	QPSK	1	40	23.09			24.0	0.0
15	QPSK	1	77	22.98				
15	QPSK	36	0	22.12			23.0	1.0
15	QPSK	36	22	23.22			24.0	0.0
15	QPSK	36	43	22.02			23.0	1.0
15	QPSK	75	0	22.18				
15	16QAM	1	1	21.98			23.0	1.0
15	64QAM	1	1	20.38			21.5	2.5
	256QAM	1	1	18.81			19.5	4.5
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	23.14	23.30	23.08	24.0	0.0
Channel				336500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	23.05	23.10	23.06	24.0	0.0

n71 Ant0 Default								
BW (MHz)	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)				672	680.5	688		
20	PI2 BPSK	1	1	23.10	23.20	23.01	24.0	0.0
20	PI2 BPSK	1	53	22.95	23.19	23.16		
20	PI2 BPSK	1	104	22.84	22.99	22.95		
20	PI2 BPSK	50	0	22.79	22.86	22.66	23.5	0.5
20	PI2 BPSK	50	28	22.95	23.02	22.80	24.0	0.0
20	PI2 BPSK	50	56	22.62	22.78	22.65	23.5	0.5
20	PI2 BPSK	100	0	22.70	22.80	22.68		
20	QPSK	1	1	23.14	23.25	22.96		
20	QPSK	1	53	23.13	23.21	22.91	24.0	0.0
20	QPSK	1	104	23.08	23.00	23.05		
20	QPSK	50	0	22.19	22.25	22.19	23.0	1.0
20	QPSK	50	28	22.89	23.21	22.92	24.0	0.0
20	QPSK	50	56	22.14	22.11	22.23	23.0	1.0
20	QPSK	100	0	22.12	22.17	22.15		
20	16QAM	1	1	21.67	21.95	21.77	23.0	1.0
20	64QAM	1	1	20.31	20.36	20.44	21.5	2.5
20	256QAM	1	1	18.67	18.58	18.57	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.04	23.10	22.88	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.96	23.20	22.78	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.10	23.19	22.85	24.0	0.0



n38 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	516000	516998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	22.94	22.97	22.81			
40	PQ2 BPSK	1	53	22.76	22.87	22.81	24.0	0.0	
40	PQ2 BPSK	1	104	22.77	22.97	22.87			
40	PQ2 BPSK	50	0	22.38	22.37	22.47	23.5	0.5	
40	PQ2 BPSK	50	28	22.98	23.04	22.80	24.0	0.0	
40	PQ2 BPSK	50	58	22.46	22.52	22.40			
40	PQ2 BPSK	100	0	22.21	22.27	22.22	23.5	0.5	
40	QPSK	1	1	22.94	23.04	22.88			
40	QPSK	1	53	22.83	22.80	22.73	24.0	0.0	
40	QPSK	1	104	22.34	22.46	22.37			
40	QPSK	50	0	21.85	21.92	21.65	23.0	1.0	
40	QPSK	50	28	22.58	22.97	22.77	24.0	0.0	
40	QPSK	50	58	21.91	22.12	21.86	23.0	1.0	
40	QPSK	100	0	21.79	21.95	21.90			
40	16QAM	1	1	21.14	21.41	21.22	23.0	1.0	
40	64QAM	1	1	19.69	19.78	19.58	21.5	2.5	
40	256QAM	1	1	18.24	18.30	18.13	19.5	4.5	
Channel				517002	516000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.91	23.02	22.83	24.0	0.0	
Channel				516504	516000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	22.76	23.00	22.69	24.0	0.0	
Channel				516000	516000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.81	22.82	22.67	24.0	0.0	
Channel				515502	516000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2617.51	2595	2612.49			
15	QPSK	1	1	22.74	22.96	22.74	24.0	0.0	
Channel				515004	516000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2675.02	2595	2614.98			
10	QPSK	1	1	22.95	22.97	22.82	24.0	0.0	

n41 PC3 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.41	22.54	22.53			
100	PQ2 BPSK	1	137	22.64	22.59	22.47	24.0	0.0	
100	PQ2 BPSK	1	271	22.33	22.53	22.34			
100	PQ2 BPSK	135	0	22.43	22.53	22.54	24.0	0.0	
100	PQ2 BPSK	135	69	22.70	22.64	22.74	24.0	0.0	
100	PQ2 BPSK	135	138	22.68	22.58	22.79	24.0	0.0	
100	PQ2 BPSK	270	0	22.43	22.61	22.64			
100	QPSK	1	1	22.81	22.94	22.74			
100	QPSK	1	137	22.58	22.71	22.63	24.0	0.0	
100	QPSK	1	271	22.19	22.32	22.25			
100	QPSK	135	0	22.54	22.66	22.50	24.0	0.0	
100	QPSK	135	69	22.76	22.80	22.74	24.0	0.0	
100	QPSK	135	138	22.80	22.58	22.53	24.0	0.0	
100	QPSK	270	0	22.65	22.71	22.65			
100	16QAM	1	1	22.25	22.27	22.19	24.0	0.0	
100	64QAM	1	1	22.34	22.17	22.37	24.0	0.0	
100	256QAM	1	1	20.81	20.82	20.74	22.5	1.5	
Channel				505200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.72	22.78	22.68	24.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	22.73	22.90	22.60	24.0	0.0	
Channel				505002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.61	22.82	22.59	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	22.62	22.76	22.61	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	22.68	22.79	22.72	24.0	0.0	
Channel				505200	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.64	22.75	22.68	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.69	22.83	22.57	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.79	22.90	22.58	24.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.80	22.78	22.58	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	22.68	22.86	22.66	24.0	0.0	

n41 PC2 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	530000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	25.72	25.76	25.88			
100	PQ2 BPSK	1	137	25.69	25.79	25.61	27.0	0.0	
100	PQ2 BPSK	1	271	25.89	25.62	25.75			
100	PQ2 BPSK	135	0	24.98	25.27	25.09	26.5	0.5	
100	PQ2 BPSK	135	69	25.84	25.89	25.55	27.0	0.0	
100	PQ2 BPSK	135	138	25.17	25.20	25.20	26.5	0.5	
100	PQ2 BPSK	270	0	25.32	25.26	25.26			
100	QPSK	1	1	25.85	25.87	25.89			
100	QPSK	1	137	25.72	25.86	25.77	27.0	0.0	
100	QPSK	1	271	25.83	25.69	25.76			
100	QPSK	135	0	24.48	24.76	24.59	26.0	1.0	
100	QPSK	135	69	25.64	25.88	25.71	27.0	0.0	
100	QPSK	135	138	24.81	24.82	24.86	26.0	1.0	
100	QPSK	270	0	24.85	24.76	24.74			
100	16QAM	1	1	24.30	24.23	24.35	26.0	1.0	
100	64QAM	1	1	22.76	22.66	22.74	24.5	2.5	
100	256QAM	1	1	21.11	21.33	21.28	22.5	4.5	
Channel				505200	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.84	25.82	25.82	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.74	25.95	25.73	27.0	0.0	
Channel				505002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.72	25.87	25.81	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	25.87	25.82	25.76	27.0	0.0	



n2 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374500	376000	376500	24.0	0.0
Frequency (MHz)				1670	1680	1690		
40	Pl2 BPSK	1	1	22.81	22.85	22.83	24.0	0.0
40	Pl2 BPSK	1	108	22.71	22.67	22.63		
40	Pl2 BPSK	1	214	22.56	22.62	22.57	23.5	0.5
40	Pl2 BPSK	108	0	22.33	22.24	22.24		
40	Pl2 BPSK	108	54	22.62	22.74	22.60	24.0	0.0
40	Pl2 BPSK	108	108	22.14	22.15	22.20		
40	Pl2 BPSK	216	0	22.14	22.38	22.38	23.5	0.5
40	QPSK	1	1	22.76	22.68	22.82		
40	QPSK	1	108	22.54	22.80	22.76	24.0	0.0
40	QPSK	1	214	22.81	22.77	22.76		
40	QPSK	108	0	21.64	21.81	21.82	23.0	1.0
40	QPSK	108	54	22.70	22.66	22.81		
40	QPSK	108	108	21.58	21.72	21.71	23.0	1.0
40	QPSK	216	0	21.89	21.77	21.54		
40	16QAM	1	1	21.32	21.34	21.26	23.0	1.0
40	64QAM	1	1	20.05	20.11	20.07		
40	256QAM	1	1	18.64	18.77	18.58	19.5	4.5
Channel				372000	373000	374000	24.0	0.0
Frequency (MHz)				1695	1680	1695		
30	QPSK	1	1	22.58	22.78	22.65	24.0	0.0
Channel				372500	376000	379500		
Frequency (MHz)				1692.5	1690	1697.5	24.0	0.0
25	QPSK	1	1	22.70	22.80	22.66		
Channel				372000	376000	380000	24.0	0.0
Frequency (MHz)				1680	1680	1690		
20	QPSK	1	1	22.68	22.68	22.78	24.0	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1687.5	1680	1697.5	24.0	0.0
15	QPSK	1	1	22.63	22.74	22.79		
Channel				371000	376000	381000	24.0	0.0
Frequency (MHz)				1655	1680	1605		
10	QPSK	1	1	22.66	22.85	22.83	24.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1680	1907.5	24.0	0.0
5	QPSK	1	1	22.62	22.89	22.64		

n5 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				165800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	Pl2 BPSK	1	1	22.89	22.91	22.85	24.0	0.0
20	Pl2 BPSK	1	53	22.71	22.78	22.80		
20	Pl2 BPSK	1	104	22.65	22.72	22.76	23.5	0.5
20	Pl2 BPSK	50	0	22.39	22.45	22.40		
20	Pl2 BPSK	50	28	22.79	22.85	22.64	24.0	0.0
20	Pl2 BPSK	50	56	22.21	22.26	22.20		
20	Pl2 BPSK	100	0	22.30	22.40	22.34	23.5	0.5
20	QPSK	1	1	22.91	22.96	22.91		
20	QPSK	1	53	22.67	22.76	22.82	24.0	0.0
20	QPSK	1	104	22.53	22.83	22.59		
20	QPSK	50	0	21.80	22.11	21.98	23.0	1.0
20	QPSK	50	28	22.73	22.95	22.78		
20	QPSK	50	56	21.58	21.80	21.64	23.0	1.0
20	QPSK	100	0	21.75	21.84	21.79		
20	16QAM	1	1	21.75	21.84	21.82	23.0	1.0
20	64QAM	1	1	20.18	20.38	20.29		
20	256QAM	1	1	18.85	18.56	18.69	19.5	4.5
Channel				168300	167500	165200	24.0	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.71	22.95	22.87	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844	24.0	0.0
10	QPSK	1	1	22.78	22.79	22.79		
Channel				165300	167300	169300	24.0	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.79	22.81	22.90	24.0	0.0

n7 Ant1 Default

BW [MHz]	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	507000	508500	24.0	0.0
Frequency (MHz)				2525	2535	2545		
50	Pl2 BPSK	1	1	23.35	23.44	23.35	24.0	0.0
50	Pl2 BPSK	1	135	23.28	23.40	23.21		
50	Pl2 BPSK	1	268	23.25	23.33	23.22	23.5	0.5
50	Pl2 BPSK	135	0	23.04	23.06	22.91		
50	Pl2 BPSK	135	68	23.24	23.41	23.25	24.0	0.0
50	Pl2 BPSK	135	135	22.88	23.07	22.99		
50	Pl2 BPSK	270	0	23.11	23.13	23.00	23.5	0.5
50	QPSK	1	1	23.37	23.48	23.43		
50	QPSK	1	135	23.33	23.40	23.40	24.0	0.0
50	QPSK	1	268	23.35	23.35	23.29		
50	QPSK	135	0	22.31	22.43	22.32	23.0	1.0
50	QPSK	135	68	23.32	23.42	23.33		
50	QPSK	135	135	22.20	22.23	22.13	23.0	1.0
50	QPSK	270	0	22.20	22.30	22.21		
50	16QAM	1	1	21.94	22.00	21.87	23.0	1.0
50	64QAM	1	1	20.48	20.60	20.45		
50	256QAM	1	1	19.17	19.24	19.16	19.5	4.5
Channel				504000	507000	510000	24.0	0.0
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.28	23.35	23.36	24.0	0.0
Channel				503000	507000	511000		
Frequency (MHz)				2515	2532	2555	24.0	0.0
30	QPSK	1	1	23.26	23.41	23.32		
Channel				502500	507000	511500	24.0	0.0
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.31	23.38	23.33	24.0	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560	24.0	0.0
20	QPSK	1	1	23.26	23.35	23.38		
Channel				501500	507000	512500	24.0	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.28	23.43	23.31	24.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565	24.0	0.0
10	QPSK	1	1	23.33	23.40	23.30		
Channel				500500	507000	513500	24.0	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.28	23.35	23.33	24.0	0.0



n12 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700	24.0	0.0
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	23.10	23.07	23.10		
15	PI/2 BPSK	1	40	22.92	22.85	22.87	23.5	0.5
15	PI/2 BPSK	1	77	22.38	22.55	22.59		
15	PI/2 BPSK	36	0	22.63	22.63	22.69		
15	PI/2 BPSK	36	22	23.06	22.94	22.91	24.0	0.0
15	PI/2 BPSK	36	43	22.29	22.34	22.19	23.5	0.5
15	PI/2 BPSK	75	0	22.32	22.48	22.46	24.0	0.0
15	QPSK	1	1	23.12	23.17	23.00		
15	QPSK	1	40	22.77	22.88	22.91		
15	QPSK	1	77	22.48	22.54	22.29	23.0	1.0
15	QPSK	36	0	22.18	22.11	22.13		
15	QPSK	36	22	22.98	23.07	23.02		
15	QPSK	36	43	21.94	22.06	22.01	23.0	1.0
15	QPSK	75	0	22.14	22.27	22.02	23.0	1.0
15	16QAM	1	1	21.93	21.86	21.77		
15	64QAM	1	1	20.32	20.61	20.47		
15	256QAM	1	1	18.85	18.84	18.80	19.5	4.5
Channel				142000	141500	142300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711	24.0	0.0
10	Channel	1	1	23.00	23.03	22.88	Tune-up limit (dBm)	MPR (dB)
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5	24.0	0.0
5	QPSK	1	1	23.01	23.09	22.78	24.0	0.0

n14 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158600			24.0	0.0
Frequency (MHz)				793				
10	PI/2 BPSK	1	1		22.90			
10	PI/2 BPSK	1	26		22.88		23.5	0.5
10	PI/2 BPSK	1	50		22.87			
10	PI/2 BPSK	25	0		22.33			
10	PI/2 BPSK	25	14		22.82		24.0	0.0
10	PI/2 BPSK	25	27		22.37		23.5	0.5
10	PI/2 BPSK	50	0		22.34		24.0	0.0
10	QPSK	1	1		22.94			
10	QPSK	1	26		22.90			
10	QPSK	1	50		22.88		23.0	1.0
10	QPSK	25	0		21.80			
10	QPSK	25	14		22.85			
10	QPSK	25	27		21.84		23.0	1.0
10	QPSK	50	0		21.90		23.0	1.0
10	16QAM	1	1		21.80			
10	64QAM	1	1		20.03			
10	256QAM	1	1		18.30		19.5	4.5
Channel				158100	158000	158100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5	24.0	0.0
5	QPSK	1	1	22.70	22.79	22.66	24.0	0.0

n25 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374000	376500	379000	24.0	0.0
Frequency (MHz)				1870	1882.5	1895		
40	PI/2 BPSK	1	1	23.02	23.11	22.96		
40	PI/2 BPSK	1	108	22.99	22.86	22.73	23.5	0.5
40	PI/2 BPSK	1	214	22.98	23.13	22.84		
40	PI/2 BPSK	108	0	22.55	22.39	22.51		
40	PI/2 BPSK	108	54	22.88	23.01	22.73	24.0	0.0
40	PI/2 BPSK	108	108	22.37	22.24	22.46	23.5	0.5
40	PI/2 BPSK	216	0	22.26	22.50	22.52	24.0	0.0
40	QPSK	1	1	23.05	23.15	23.04		
40	QPSK	1	108	22.93	23.02	22.98		
40	QPSK	1	214	22.95	22.90	22.92	23.0	1.0
40	QPSK	108	0	21.93	22.02	21.82		
40	QPSK	108	54	22.92	23.12	23.07		
40	QPSK	108	108	21.81	21.83	21.84	23.0	1.0
40	QPSK	216	0	21.98	22.01	21.70	23.0	1.0
40	16QAM	1	1	21.41	21.45	21.43		
40	64QAM	1	1	20.14	20.38	20.34		
40	256QAM	1	1	18.78	19.06	18.76	19.5	4.5
Channel				372000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1900	24.0	0.0
30	QPSK	1	1	23.01	22.99	22.98	24.0	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1920.5	1921.5	1923.5	24.0	0.0
25	QPSK	1	1	22.99	23.01	22.97	24.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1866	1882.5	1905	24.0	0.0
20	QPSK	1	1	22.88	23.03	23.05	24.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5	24.0	0.0
15	QPSK	1	1	22.84	23.05	23.04	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910	24.0	0.0
10	QPSK	1	1	22.83	23.11	22.85	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5	24.0	0.0
5	QPSK	1	1	23.06	22.99	22.87	24.0	0.0



n26 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	166300	167600	24.0	0.0	
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.77	22.98	22.93			
20	PI2 BPSK	1	53	22.66	23.03	22.83	23.5	0.5	
20	PI2 BPSK	1	164	22.73	22.90	22.92			
20	PI2 BPSK	50	0	22.17	22.24	22.39			
20	PI2 BPSK	50	28	22.74	22.91	22.76	24.0	0.0	
20	PI2 BPSK	50	56	22.34	22.33	22.38	23.5	0.5	
20	PI2 BPSK	100	0	22.45	22.64	22.49	24.0	0.0	
20	QPSK	1	1	23.05	23.10	22.97			
20	QPSK	1	53	22.84	22.84	22.96			
20	QPSK	1	104	22.69	22.76	22.61	23.0	1.0	
20	QPSK	50	0	21.73	22.04	21.99			
20	QPSK	50	28	22.83	23.07	22.77			
20	QPSK	50	56	21.91	21.82	21.81	23.0	1.0	
20	QPSK	100	0	21.80	21.83	21.81	23.0	1.0	
20	16QAM	1	1	21.82	21.80	21.90			
20	64QAM	1	1	20.40	20.32	20.27			
20	256QAM	1	1	18.43	18.48	18.37	19.5	4.5	
Channel				164300	166300	163300	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.03	23.06	22.87	24.0	0.0	
Channel				163600	166300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844	24.0	0.0	
10	QPSK	1	1	22.86	23.03	22.92			
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0	
5	QPSK	1	1	22.84	22.90	22.93			

n30 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				460000	460000		24.0	0.0	
Frequency (MHz)				2310					
10	PI2 BPSK	1	1		23.28				
10	PI2 BPSK	1	26		23.23		23.5	0.5	
10	PI2 BPSK	1	50		23.21				
10	PI2 BPSK	25	0		22.80				
10	PI2 BPSK	25	14		23.26		24.0	0.0	
10	PI2 BPSK	25	27		22.86		23.5	0.5	
10	PI2 BPSK	50	0		22.83				
10	QPSK	1	1		23.32				
10	QPSK	1	26		23.23		24.0	0.0	
10	QPSK	1	50		23.27		23.0	1.0	
10	QPSK	25	0		22.33				
10	QPSK	25	14		23.25				
10	QPSK	25	27		22.21		23.0	1.0	
10	QPSK	50	0		22.27		23.0	1.0	
10	16QAM	1	1		21.87				
10	64QAM	1	1		20.40				
10	256QAM	1	1		19.15		19.5	4.5	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5	24.0	0.0	
5	QPSK	1	1	23.20	23.22	23.17			

n66 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	346000	353000	24.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.27	23.32	23.25			
40	PI2 BPSK	1	108	23.18	23.28	23.19	23.5	0.5	
40	PI2 BPSK	1	214	23.07	23.20	23.17			
40	PI2 BPSK	108	0	22.76	22.82	22.72			
40	PI2 BPSK	108	54	23.20	23.26	23.14	24.0	0.0	
40	PI2 BPSK	108	108	22.69	22.75	22.60	23.5	0.5	
40	PI2 BPSK	216	0	22.72	22.85	22.79	24.0	0.0	
40	QPSK	1	1	23.21	23.35	23.29			
40	QPSK	1	108	23.13	23.21	23.16			
40	QPSK	1	214	23.13	23.18	23.11	23.0	1.0	
40	QPSK	108	0	22.23	22.31	22.19			
40	QPSK	108	54	23.15	23.28	23.18			
40	QPSK	108	108	22.26	22.33	22.22	23.0	1.0	
40	QPSK	216	0	22.24	22.37	22.28	23.0	1.0	
40	16QAM	1	1	21.80	21.92	21.82			
40	64QAM	1	1	20.35	20.50	20.37			
40	256QAM	1	1	18.94	19.05	18.97	19.5	4.5	
Channel				350000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.18	23.23	23.18			
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0	
25	QPSK	1	1	23.09	23.27	23.25			
Channel				344000	349000	344000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.12	23.30	23.14			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.11	23.29	23.21			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.08	23.24	23.20			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.12	23.31	23.20			

n70 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340500			24.0	0.0	
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1		22.93		23.5	0.5	
15	PI2 BPSK	1	40		22.97				
15	PI2 BPSK	1	77		22.95				
15	PI2 BPSK	36	0		22.49				
15	PI2 BPSK	36	22		22.93		24.0	0.0	
15	PI2 BPSK	36	43		22.40		23.5	0.5	
15	PI2 BPSK	75	0		22.57		24.0	0.0	
15	QPSK	1	1		23.13				
15	QPSK	1	40		22.94				
15	QPSK	1	77		22.90				
15	QPSK	36	0		21.93		23.0	1.0	
15	QPSK	36	22		23.07		24.0	0.0	
15	QPSK	36	43		21.96		23.0	1.0	
15	QPSK	75	0		21.83		23.0	1.0	
15	16QAM	1	1		21.79				
15	64QAM	1	1		20.21				
15	256QAM	1	1		18.64				
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	23.03	23.07	22.91	24.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	22.92	23.00	22.88	24.0	0.0	

n71 Ant1 Default											
BW [MHz]	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	24.0	0.0			
Frequency (MHz)				673	680.5	688					
20	PI2 BPSK	1	1	22.96	23.12	23.09	24.0	0.0	0.0		
20	PI2 BPSK	1	53	22.98	22.87	22.75					
20	PI2 BPSK	1	104	22.81	22.99	22.78					
20	PI2 BPSK	50	0	22.68	22.74	22.64					
20	PI2 BPSK	50	28	22.70	22.93	22.83	24.0	0.0	0.0		
20	PI2 BPSK	50	56	22.29	22.50	22.41	23.5	0.5	0.5		
20	PI2 BPSK	100	0	22.63	22.55	22.41	24.0	0.0	0.0		
20	QPSK	1	1	23.05	23.16	23.08					
20	QPSK	1	53	22.73	22.92	22.86					
20	QPSK	1	104	23.00	22.90	22.90					
20	QPSK	50	0	21.95	22.18	22.05	23.0	1.0	1.0		
20	QPSK	50	28	23.01	23.03	22.90	24.0	0.0	0.0		
20	QPSK	50	56	21.92	21.97	21.99	23.0	1.0	1.0		
20	QPSK	100	0	21.97	22.16	22.12	23.0	1.0	1.0		
20	16QAM	1	1	21.64	21.71	21.65					
20	64QAM	1	1	20.14	20.33	20.11					
20	256QAM	1	1	18.55	18.64	18.57					
Channel				134100	136100	138100	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5					
15	QPSK	1	1	23.06	23.06	22.88	24.0			0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				670.5	680.5	690					
10	QPSK	1	1	22.84	23.00	22.93	24.0			0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5					
5	QPSK	1	1	22.90	23.13	23.05	24.0			0.0	



n38 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	519998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	22.81	22.99	22.73			
40	PQ2 BPSK	1	53	22.72	22.91	22.76	24.0	0.0	
40	PQ2 BPSK	1	104	22.69	22.90	22.78			
40	PQ2 BPSK	50	0	22.40	22.46	22.22	23.5	0.5	
40	PQ2 BPSK	50	28	22.89	22.93	22.92	24.0	0.0	
40	PQ2 BPSK	50	58	22.33	22.53	22.24	23.5	0.5	
40	PQ2 BPSK	100	0	22.49	22.44	22.37			
40	QPSK	1	1	22.51	23.09	22.97			
40	QPSK	1	53	22.93	22.87	22.98	24.0	0.0	
40	QPSK	1	104	22.83	23.00	22.91			
40	QPSK	50	0	21.93	21.98	21.78	23.0	1.0	
40	QPSK	50	28	22.83	22.94	22.83	24.0	0.0	
40	QPSK	50	58	21.80	21.86	21.72	23.0	1.0	
40	QPSK	100	0	21.91	21.92	21.78			
40	16QAM	1	1	21.51	21.63	21.51	23.0	1.0	
40	64QAM	1	1	19.84	19.98	19.86	21.5	2.5	
40	256QAM	1	1	19.08	19.24	19.14	19.5	4.5	
Channel				517002	518000	520000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.81	23.00	22.80	24.0	0.0	
Channel				516504	518000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	22.69	22.93	22.79	24.0	0.0	
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.92	23.02	22.77	24.0	0.0	
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.80	23.01	22.86	24.0	0.0	
Channel				515004	518000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	22.92	22.96	22.94	24.0	0.0	

n41 PC3 Ant1 Default									
BW [MHz]	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	529000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.90	22.99	22.87			
100	PQ2 BPSK	1	137	22.83	22.88	22.85	24.0	0.0	
100	PQ2 BPSK	1	271	22.87	22.95	22.95			
100	PQ2 BPSK	135	0	22.73	22.86	22.77	24.0	0.0	
100	PQ2 BPSK	135	69	22.80	22.96	22.81	24.0	0.0	
100	PQ2 BPSK	135	138	22.73	22.80	22.80	24.0	0.0	
100	PQ2 BPSK	270	0	22.84	22.85	22.86			
100	QPSK	1	1	22.98	23.00	22.98			
100	QPSK	1	137	22.94	22.96	22.92	24.0	0.0	
100	QPSK	1	271	22.79	22.92	22.86			
100	QPSK	135	0	22.79	22.86	22.75	24.0	0.0	
100	QPSK	135	69	22.87	22.95	22.86	24.0	0.0	
100	QPSK	135	138	22.84	22.82	22.78	24.0	0.0	
100	QPSK	270	0	22.74	22.91	22.74			
100	16QAM	1	1	22.77	22.83	22.70	24.0	0.0	
100	64QAM	1	1	22.66	22.69	22.71	24.0	0.0	
100	256QAM	1	1	21.64	21.84	21.71	22.5	1.5	
Channel				508200	518598	529598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.84	22.94	22.78	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2642.99			
80	QPSK	1	1	22.91	22.98	22.81	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	22.90	22.96	22.74	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.99			
60	QPSK	1	1	22.83	22.91	22.78	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	22.95	22.98	22.75	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	22.90	22.87	22.73	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.92	22.98	22.77	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	22.87	22.89	22.75	24.0	0.0	
Channel				500700	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.92	22.93	22.79	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	22.94	22.97	22.83	24.0	0.0	

n41 PC2 Ant1 Default									
BW [MHz]	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	529000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	25.96	25.98	25.89			
100	PQ2 BPSK	1	137	25.89	25.95	25.93	27.0	0.0	
100	PQ2 BPSK	1	271	25.77	25.86	25.84			
100	PQ2 BPSK	135	0	25.43	25.60	25.36	26.5	0.5	
100	PQ2 BPSK	135	69	25.91	26.02	25.84	27.0	0.0	
100	PQ2 BPSK	135	138	25.35	25.55	25.37	26.5	0.5	
100	PQ2 BPSK	270	0	25.42	25.53	25.47			
100	QPSK	1	1	26.04	26.06	26.00			
100	QPSK	1	137	25.92	26.05	25.86	27.0	0.0	
100	QPSK	1	271	25.84	25.94	25.82			
100	QPSK	135	0	25.07	25.22	25.05	26.0	1.0	
100	QPSK	135	69	25.85	26.00	25.92	27.0	0.0	
100	QPSK	135	138	25.09	25.14	25.07	26.0	1.0	
100	QPSK	270	0	25.10	25.23	25.15			
100	16QAM	1	1	24.67	24.77	24.66	26.0	1.0	
100	64QAM	1	1	23.27	23.31	23.25	24.5	2.5	
100	256QAM	1	1	21.76	21.92	21.90	22.5	4.5	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	26.00	25.96	25.89	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2642.99			
80	QPSK	1	1	25.95	26.01	25.89	27.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.93	25.98	25.96	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.99			
60	QPSK	1	1	25.98	26.03	25.94	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.92	26.00	25.90	27.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2514.01	2592.99	2670			
40	QPSK	1	1	25.98	25.97	25.90	27.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.91	25.98	25.95	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2504.02	2592.99	2679.99			
20	QPSK	1	1	25.90	26.00	25.87	27.0	0.0	
Channel				500700	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	25.93	25.96	25.94	27.0	0.0	
Channel				500202	518598	537100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	25.92	25.93	25.88	27.0	0.0	



n41 PC3 Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				50502	51898	53000		
				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.32	22.40	22.37		
100	PI2 BPSK	1	137	22.22	22.32	22.26	24.0	0.0
100	PI2 BPSK	1	271	22.15	22.32	22.14		
100	PI2 BPSK	135	0	22.24	22.31	22.21	24.0	0.0
100	PI2 BPSK	135	69	22.24	22.29	22.20	24.0	0.0
100	PI2 BPSK	135	138	22.17	22.31	22.12	24.0	0.0
100	PI2 BPSK	270	0	22.13	22.33	22.25		
100	QPSK	1	1	22.37	22.46	22.42		
100	QPSK	1	137	22.27	22.29	22.30	24.0	0.0
100	QPSK	1	271	22.12	22.16	22.03		
100	QPSK	135	0	22.18	22.27	22.24	24.0	0.0
100	QPSK	135	69	22.38	22.42	22.26	24.0	0.0
100	QPSK	135	138	22.18	22.24	22.12	24.0	0.0
100	QPSK	270	0	22.26	22.29	22.20		
100	16QAM	1	1	22.09	22.23	22.12	24.0	0.0
100	64QAM	1	1	22.15	22.19	22.06	24.0	0.0
100	256QAM	1	1	21.22	21.38	21.22	22.5	1.5
Channel								
Frequency (MHz)				50500	51898	53098	Tune-up limit (dBm)	MPR (dB)
				2541	2592.99	2644.98		
90	QPSK	1	1	22.33	22.32	22.35	24.0	0.0
Channel								
Frequency (MHz)				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)
				2530.02	2592.99	2648.99		
80	QPSK	1	1	22.29	22.29	22.28	24.0	0.0
Channel								
Frequency (MHz)				506202	518988	531000	Tune-up limit (dBm)	MPR (dB)
				2631.01	2592.99	2685		
70	QPSK	1	1	22.29	22.38	22.36	24.0	0.0
Channel								
Frequency (MHz)				505200	518988	531988	Tune-up limit (dBm)	MPR (dB)
				2524	2592.99	2689.98		
60	QPSK	1	1	22.26	22.38	22.37	24.0	0.0
Channel								
Frequency (MHz)				504204	518988	532988	Tune-up limit (dBm)	MPR (dB)
				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.29	22.34	22.39	24.0	0.0
Channel								
Frequency (MHz)				503202	518988	533000	Tune-up limit (dBm)	MPR (dB)
				2516.01	2592.99	2670		
40	QPSK	1	1	22.31	22.34	22.34	24.0	0.0
Channel								
Frequency (MHz)				502200	518988	534988	Tune-up limit (dBm)	MPR (dB)
				2511	2592.99	2674.98		
30	QPSK	1	1	22.29	22.38	22.36	24.0	0.0
Channel								
Frequency (MHz)				501204	518988	535988	Tune-up limit (dBm)	MPR (dB)
				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.23	22.38	22.33	24.0	0.0
Channel								
Frequency (MHz)				500700	518988	536488	Tune-up limit (dBm)	MPR (dB)
				2493.5	2592.99	2669.48		
15	QPSK	1	1	22.31	22.34	22.29	24.0	0.0
Channel								
Frequency (MHz)				500202	518988	537000	Tune-up limit (dBm)	MPR (dB)
				2501.01	2592.99	2685		
10	QPSK	1	1	22.32	22.39	22.29	24.0	0.0

n41 PC2 Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				50502	51898	53000		
				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	25.34	25.49	25.41		
100	PI2 BPSK	1	137	25.33	25.37	25.39	27.0	0.0
100	PI2 BPSK	1	271	25.21	25.36	25.27		
100	PI2 BPSK	135	0	25.06	25.10	25.09	26.5	0.5
100	PI2 BPSK	135	69	25.39	25.42	25.21	27.0	0.0
100	PI2 BPSK	135	138	25.02	25.03	25.01	26.5	0.5
100	PI2 BPSK	270	0	25.10	25.13	24.94		
100	QPSK	1	1	25.43	25.53	25.46		
100	QPSK	1	137	25.35	25.47	25.47	27.0	0.0
100	QPSK	1	271	25.36	25.42	25.36		
100	QPSK	135	0	24.54	24.64	24.58	26.0	1.0
100	QPSK	135	69	25.45	25.50	25.39	27.0	0.0
100	QPSK	135	138	24.54	24.59	24.80	26.0	1.0
100	QPSK	270	0	24.55	24.69	24.67		
100	16QAM	1	1	24.26	24.38	24.31	26.0	1.0
100	64QAM	1	1	22.75	22.81	22.82	24.5	2.5
100	256QAM	1	1	21.29	21.35	21.36	22.5	4.5
Channel								
Frequency (MHz)				506200	518988	531988	Tune-up limit (dBm)	MPR (dB)
				2541	2592.99	2644.98		
90	QPSK	1	1	25.30	25.49	25.42	27.0	0.0
Channel								
Frequency (MHz)				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)
				2530.02	2592.99	2648.99		
80	QPSK	1	1	25.37	25.40	25.36	27.0	0.0
Channel								
Frequency (MHz)				506202	518988	531000	Tune-up limit (dBm)	MPR (dB)
				2631.01	2592.99	2685		
70	QPSK	1	1	25.37	25.42	25.40	27.0	0.0
Channel								
Frequency (MHz)				505200	518988	531988	Tune-up limit (dBm)	MPR (dB)
				2524	2592.99	2684.98		
60	QPSK	1	1	25.35	25.40	25.36	27.0	0.0
Channel								
Frequency (MHz)				504204	518988	532988	Tune-up limit (dBm)	MPR (dB)
				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.32	25.38	25.43	27.0	0.0
Channel								
Frequency (MHz)				503202	518988	533000	Tune-up limit (dBm)	MPR (dB)
				2516.01	2592.99	2670		
40	QPSK	1	1	25.29	25.47	25.32	27.0	0.0
Channel								
Frequency (MHz)				502200	518988	534988	Tune-up limit (dBm)	MPR (dB)
				2511	2592.99	2674.98		
30	QPSK	1	1	25.36	25.43	25.37	27.0	0.0
Channel								
Frequency (MHz)				501204	518988	535988	Tune-up limit (dBm)	MPR (dB)
				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.35	25.42	25.32	27.0	0.0
Channel								
Frequency (MHz)				500700	518988	536488	Tune-up limit (dBm)	MPR (dB)
				2493.5	2592.99	2669.48		
15	QPSK	1	1	25.37	25.40	25.36	27.0	0.0
Channel								
Frequency (MHz)				500202	518988	537000	Tune-up limit (dBm)	MPR (dB)
				2501.01	2592.99	2685		
10	QPSK	1	1	25.35	25.43	25.42	27.0	0.0

n48 Part96 Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				640000	641666	643332		
			1	3600	3624.99	3648.98		
100	PI2 BPSK	1	1	23.36	23.48	23.44		
100	PI2 BPSK	1	137	23.31	23.45	23.38	24.0	0.0
100	PI2 BPSK	1	271	23.28	23.41	23.37		
100	PI2 BPSK	135	0	23.11	23.23	23.09	23.5	0.5
100	PI2 BPSK	135	69	23.34	23.44	23.33	24.0	0.0
100	PI2 BPSK	135	138	23.06	23.11	23.05	23.5	0.5
100	PI2 BPSK	270	0	23.06	23.19	23.05		
100	QPSK	1	1	23.43	23.53	23.48		
100	QPSK	1	137	23.38	23.46	23.35	24.0	0.0
100	QPSK	1	271	23.34	23.40	23.29		
100	QPSK	135	0	22.74	22.88	22.85	23.0	1.0
100	QPSK	135	69	23.37	23.48	23.42	24.0	0.0
100	QPSK	135	138	22.73	22.82	22.77	23.0	1.0
100	QPSK	270	0	22.83	22.87	22.78		
100	16QAM	1	1	21.83	21.88	21.81	23.0	1.0
100	64QAM	1	1	20.45	20.57	20.43	21.5	2.5
100	256QAM	1	1	19.07	19.19	19.05	19.5	4.5
Channel				638668	641666	643666	Tune-up limit	MPR
Frequency (MHz)				3595.02	3624.99	3654.99	(dBm)	(dB)
90	QPSK	1	1	23.29	23.45	23.41	24.0	0.0
Channel				633334	641666	644000	Tune-up limit	MPR
Frequency (MHz)				3500.01	3624.99	3660	(dBm)	(dB)
80	QPSK	1	1	23.32	23.44	23.41	24.0	0.0
Channel				636668	641666	643666	Tune-up limit	MPR
Frequency (MHz)				3580.02	3624.99	3669.99	(dBm)	(dB)
80	QPSK	1	1	23.33	23.39	23.34	24.0	0.0
Channel				636334	641666	645000	Tune-up limit	MPR
Frequency (MHz)				3575.01	3624.99	3675	(dBm)	(dB)
60	QPSK	1	1	23.34	23.41	23.33	24.0	0.0
Channel				630000	641666	645332	Tune-up limit	MPR
Frequency (MHz)				3570	3624.99	3678.98	(dBm)	(dB)
40	QPSK	1	1	23.40	23.43	23.35	24.0	0.0
Channel				637668	641666	645668	Tune-up limit	MPR
Frequency (MHz)				3665.02	3624.99	3684.99	(dBm)	(dB)
30	QPSK	1	1	23.31	23.41	23.37	24.0	0.0
Channel				637334	641666	646000	Tune-up limit	MPR
Frequency (MHz)				3570.01	3624.99	3680	(dBm)	(dB)
20	QPSK	1	1	23.33	23.40	23.42	24.0	0.0
Channel				637168	641666	648168	Tune-up limit	MPR
Frequency (MHz)				3657.52	3624.99	3692.49	(dBm)	(dB)
15	QPSK	1	1	23.33	23.44	23.39	24.0	0.0
Channel				637000	641666	648332	Tune-up limit	MPR
Frequency (MHz)				3655	3624.99	3694.98	(dBm)	(dB)
10	QPSK	1	1	23.31	23.40	23.34	24.0	0.0



Part270 n77 PC3 Ant2 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	22.77	22.83	22.71	24.0	0.0		
100	PI2 BPSK	1	137	22.83	22.77	22.83				
100	PI2 BPSK	1	271	22.53	22.63	22.52				
100	PI2 BPSK	135	0	22.85	22.78	22.85	24.0	0.0		
100	PI2 BPSK	135	69	22.72	22.84	22.77	24.0	0.0		
100	PI2 BPSK	135	138	22.85	22.79	22.73	24.0	0.0		
100	PI2 BPSK	270	0	22.89	22.82	22.72	24.0	0.0		
100	QPSK	1	1	22.81	22.85	22.74				
100	QPSK	1	137	22.85	22.79	22.80				
100	QPSK	1	271	22.53	22.86	22.61	24.0	0.0		
100	QPSK	135	0	22.85	22.78	22.75				
100	QPSK	135	69	22.73	22.81	22.78				
100	QPSK	135	138	22.83	22.73	22.86	24.0	0.0		
100	QPSK	270	0	22.88	22.75	22.83	24.0	0.0		
100	16QAM	1	1	22.29	22.43	22.31	24.0	0.0		
100	64QAM	1	1	22.35	22.48	22.37	24.0	0.0		
100	256QAM	1	1	21.45	21.51	21.47	22.5	1.5		
Channel				649334	650000	649334	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	22.78	22.71	22.87	24.0	0.0		
Channel				649334	650000	649334	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	22.71	22.71	22.63	24.0	0.0		
Channel				649000	650000	649000	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3735	3840	3945				
70	QPSK	1	1	22.75	22.80	22.70	24.0	0.0		
Channel				648668	650000	648668	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	22.89	22.77	22.59	24.0	0.0		
Channel				648334	650000	648334	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	22.74	22.80	22.61	24.0	0.0		
Channel				647668	650000	647668	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	22.71	22.78	22.63	24.0	0.0		
Channel				647168	650000	647168	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	22.76	22.72	22.70	24.0	0.0		
Channel				647500	650000	647500	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3712.5	3840	3967.5				
25	QPSK	1	1	22.76	22.72	22.84	24.0	0.0		
Channel				647334	650000	647334	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	22.76	22.73	22.88	24.0	0.0		
Channel				647168	650000	647168	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3707.52	3840	3972.51				
15	QPSK	1	1	22.87	22.75	22.70	24.0	0.0		
Channel				647000	650000	647000	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3705	3840	3975				
10	QPSK	1	1	22.70	22.77	22.71	24.0	0.0		

Part270 n77 PC2 Ant2 Default										
BW [MHz]	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	65000	65000				
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	25.73	25.87	25.84	27.0	0.0		
100	PI2 BPSK	1	137	25.73	25.82	25.74				
100	PI2 BPSK	1	271	25.72	25.79	25.76				
100	PI2 BPSK	135	0	25.52	25.54	25.49	26.5	0.5		
100	PI2 BPSK	135	69	25.75	25.82	25.74	27.0	0.0		
100	PI2 BPSK	135	138	25.44	25.56	25.42	26.5	0.5		
100	PI2 BPSK	270	0	25.56	25.62	25.49	27.0	0.0		
100	QPSK	1	1	25.80	25.91	25.86				
100	QPSK	1	137	25.72	25.84	25.80				
100	QPSK	1	271	25.83	25.86	25.72	27.0	1.0		
100	QPSK	135	0	24.94	25.05	24.93				
100	QPSK	135	69	25.82	25.88	25.74				
100	QPSK	135	138	24.86	24.96	24.88	27.0	0.0		
100	QPSK	270	0	24.87	25.00	24.85	26.0	1.0		
100	16QAM	1	1	24.65	24.68	24.57	26.0	1.0		
100	64QAM	1	1	23.06	23.19	23.08	24.5	2.5		
100	256QAM	1	1	21.52	21.61	21.55	22.5	4.5		
Channel				64966	65000	64933	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	25.74	25.79	25.72	27.0	0.0		
Channel				649334	650000	649668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	25.72	25.70	25.79	27.0	0.0		
Channel				649000	650000	649000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3840	3945				
70	QPSK	1	1	25.76	25.80	25.78	27.0	0.0		
Channel				648668	650000	648334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	25.86	25.86	25.82	27.0	0.0		
Channel				648334	650000	648668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	25.66	25.77	25.81	27.0	0.0		
Channel				647668	650000	647334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	25.66	25.85	25.73	27.0	0.0		
Channel				647668	650000	647334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	25.67	25.83	25.73	27.0	0.0		
Channel				647500	650000	647500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3712.5	3840	3967.5				
25	QPSK	1	1	25.69	25.81	25.73	27.0	0.0		
Channel				647334	650000	647334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	25.71	25.84	25.74	27.0	0.0		
Channel				647168	650000	647168	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3707.52	3840	3972.51				
15	QPSK	1	1	25.68	25.88	25.80	27.0	0.0		
Channel				647000	650000	647000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3705	3840	3975				
10	QPSK	1	1	25.74	25.86	25.78	27.0	0.0		

Part27Q n77 PC3 Ant2 Default									
BW [MHz]	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	63334				
Frequency (MHz)				3500.01					
100	Pi2 BPSK	1	1		22.83				
100	Pi2 BPSK	1	137		22.78		24.0	0.0	
100	Pi2 BPSK	1	271		22.71				
100	Pi2 BPSK	135	0		22.75		24.0	0.0	
100	Pi2 BPSK	135	69		22.80		24.0	0.0	
100	Pi2 BPSK	135	138		22.65		24.0	0.0	
100	Pi2 BPSK	270	0		22.77				
100	QPSK	1	1		22.67				
100	QPSK	1	137		22.79		24.0	0.0	
100	QPSK	1	271		22.85				
100	QPSK	135	0		22.79		24.0	0.0	
100	QPSK	135	69		22.82		24.0	0.0	
100	QPSK	135	138		22.66		24.0	0.0	
100	QPSK	270	0		22.77				
100	16QAM	1	1		22.84		24.0	0.0	
100	64QAM	1	1		22.48				
100	256QAM	1	1		21.55		22.5	1.5	
Channel				63500	63334	63368	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3506.02	(dBm)	(dB)	
90	QPSK	1	1	22.89	22.74	22.71	24.0	0.0	
Channel				63268	63334	63400	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.79	22.75	24.0	0.0	
Channel				63334	63334	63434	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1	22.75	22.79	22.77	24.0	0.0	
Channel				63200	63334	63468	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	0	22.86	22.80	22.74	24.0	0.0	
Channel				63168	63334	63500	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	22.75	22.81	22.89	24.0	0.0	
Channel				63134	63334	63534	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	22.74	22.72	22.87	24.0	0.0	
Channel				63100	63334	63568	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1	22.76	22.75	22.69	24.0	0.0	
Channel				63034	63334	63634	Tune-up limit	MPR	
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)	
25	QPSK	1	1	22.72	22.84	22.77	24.0	0.0	
Channel				63098	63334	63600	Tune-up limit	MPR	
Frequency (MHz)				3460.95	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	22.89	22.73	22.72	24.0	0.0	
Channel				63050	63334	63618	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	1	22.89	22.81	22.70	24.0	0.0	
Channel				63334	63334	63634	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1	22.73	22.83	22.70	24.0	0.0	



Part27Q n77 PC2 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				63300.01					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		25.87		27.0	0.0	
100	PI2 BPSK	1	137		25.83				
100	PI2 BPSK	1	271		25.76				
100	PI2 BPSK	135	0		25.36		26.5	0.5	
100	PI2 BPSK	135	69		25.82		27.0	0.0	
100	PI2 BPSK	135	138		25.26		26.5	0.5	
100	PI2 BPSK	270	0		25.31				
100	QPSK	1	1		25.92				
100	QPSK	1	137		25.88		27.0	0.0	
100	QPSK	1	271		25.81		26.0	1.0	
100	QPSK	135	0		24.83				
100	QPSK	135	69		25.87				
100	QPSK	135	138		24.79		26.0	1.0	
100	QPSK	270	0		24.81				
100	16QAM	1	1		24.45		26.0	1.0	
100	64QAM	1	1		22.95		24.5	2.5	
100	256QAM	1	1		21.52		22.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	25.79	25.84	25.78	27.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3450.02	3500.01	3510			
80	QPSK	1	1	25.81	25.84	25.75	27.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	25.77	25.81	25.75	27.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	25.79	25.80	25.85	27.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	25.73	25.88	25.78	27.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	25.83	25.87	25.76	27.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	25.72	25.83	25.79	27.0	0.0	
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	25.80	25.81	25.75	27.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	25.74	25.86	25.85	27.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	25.78	25.78	25.74	27.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	25.81	25.77	25.81	27.0	0.0	

Part27O n78 PC3 Ant2 Default									
BW [MHz]	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)				3750					
100	PI2 BPSK	1	1		23.08		24.0	0.0	
100	PI2 BPSK	1	137		23.02				
100	PI2 BPSK	1	271		22.93				
100	PI2 BPSK	135	0		22.48		23.5	0.5	
100	PI2 BPSK	135	69		23.05		24.0	0.0	
100	PI2 BPSK	135	138		22.52		23.5	0.5	
100	PI2 BPSK	270	0		22.56				
100	QPSK	1	1		23.12				
100	QPSK	1	137		23.04		24.0	0.0	
100	QPSK	1	271		23.00		23.0	1.0	
100	QPSK	135	0		21.95				
100	QPSK	135	69		23.07				
100	QPSK	135	138		22.90		23.0	1.0	
100	QPSK	270	0		22.04				
100	16QAM	1	1		21.78		23.0	1.0	
100	64QAM	1	1		20.55		21.5	2.5	
100	256QAM	1	1		18.98		19.5	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.92	23.01	22.95	24.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.96	22.98	23.02	24.0	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.93	22.98	23.03	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3750	3763.01			
60	QPSK	1	1	22.93	23.09	23.04	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.96	23.05	23.01	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.99	22.98	23.01	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3715.02	3750	3735.01			
30	QPSK	1	1	22.94	23.00	22.94	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	22.96	23.00	23.01	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.01	23.04	23.02	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	23.01	22.97	22.96	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.99	23.07	22.99	24.0	0.0	

Part27Q n78 PC3 Ant2 Default									
BW [MHz]	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		23.06		24.0	0.0	
100	PI2 BPSK	1	137		23.01				
100	PI2 BPSK	1	271		23.07				
100	PI2 BPSK	135	0		22.43		23.5	0.5	
100	PI2 BPSK	135	69		23.03		24.0	0.0	
100	PI2 BPSK	135	138		22.39		23.5	0.5	
100	PI2 BPSK	270	0		22.42				
100	QPSK	1	1		23.10				
100	QPSK	1	137		23.04		24.0	0.0	
100	QPSK	1	271		22.96		23.0	1.0	
100	QPSK	135	0		21.90				
100	QPSK	135	69		23.05				
100	QPSK	135	138		21.91		24.0	1.0	
100	QPSK	270	0		21.86				
100	16QAM	1	1		21.88		23.0	1.0	
100	64QAM	1	1		20.81		21.5	2.5	
100	256QAM	1	1		18.93		19.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.94	22.99	22.90	24.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	22.97	23.03	22.91	24.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.97	23.07	22.97	24.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	22.98	23.00	22.95	24.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	23.00	23.02	22.93	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.98	23.02	22.90	24.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.97	23.00	22.81	24.0	0.0	
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	22.94	22.97	22.94	24.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3460.00	3500.01	3540			
20	QPSK	1	1	23.01	22.98	22.87	24.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	23.00	23.03	22.97	24.0	0.0	
Channel				630234	633334	636334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	22.96	23.06	22.95	24.0	0.0	



n48 Part96 Ant4 Default										
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	23.13	23.25	23.13	24.0	0.0		
100	P12 BPSK	1	137	23.06	23.20	23.16				
100	P12 BPSK	1	271	23.04	23.13	23.09				
100	P12 BPSK	135	0	22.59	22.73	22.81	23.5	0.5		
100	P12 BPSK	135	69	23.11	23.18	23.05	24.0	0.0		
100	P12 BPSK	135	138	22.45	22.57	22.49	23.5	0.5		
100	P12 BPSK	270	0	22.59	22.69	22.58				
100	QPSK	1	1	23.24	23.33	23.27				
100	QPSK	1	137	23.20	23.29	23.25	24.0	0.0		
100	QPSK	1	271	23.17	23.24	23.18				
100	QPSK	135	0	22.18	22.22	22.11	23.0	1.0		
100	QPSK	135	69	23.22	23.29	23.25	24.0	0.0		
100	QPSK	135	138	22.26	22.21	22.09	23.0	1.0		
100	QPSK	270	0	22.28	22.38	22.24				
100	16QAM	1	1	21.94	22.06	22.00	23.0	1.0		
100	64QAM	1	1	20.17	20.20	20.09	21.5	2.5		
100	256QAM	1	1	18.76	18.84	18.79	19.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	23.19	23.23	23.15	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	23.13	23.30	23.14	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.16	23.29	23.14	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.12	23.30	23.17	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.12	23.20	23.14	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.14	23.20	23.16	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.11	23.23	23.17	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.10	23.19	23.23	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.18	23.25	23.22	24.0	0.0		

Part270 n77 PC3 Ant4 Default													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)					
Channel													
Frequency (MHz)													
100	P12 BPSK	1	1	22.95	23.06	23.02	24.0	0.0					
100	P12 BPSK	1	137	22.95	23.02	22.94							
100	P12 BPSK	1	271	22.98	22.95	22.98							
100	P12 BPSK	135	0	22.77	22.90	22.85	24.0	0.0					
100	P12 BPSK	135	69	22.87	23.01	22.92	24.0	0.0					
100	P12 BPSK	135	138	22.78	22.87	22.81	24.0	0.0					
100	P12 BPSK	270	0	22.91	22.97	22.85							
100	QPSK	1	1	23.05	23.12	23.01							
100	QPSK	1	137	22.97	23.05	22.99	24.0	0.0					
100	QPSK	1	271	22.89	23.01	22.95							
100	QPSK	135	0	22.92	22.96	22.89	24.0	0.0					
100	QPSK	135	69	23.01	23.08	23.05	24.0	0.0					
100	QPSK	135	138	22.85	22.96	22.92	24.0	0.0					
100	QPSK	270	0	22.88	23.01	22.91							
100	16QAM	1	1	22.75	22.78	22.65	24.0	0.0					
100	64QAM	1	1	22.89	22.73	22.66	24.0	0.0					
100	256QAM	1	1	21.83	21.73	21.66	22.5	1.5					
Channel													
Frequency (MHz)													
90	QPSK	1	1	22.90	23.06	22.88	24.0	0.0					
Channel													
Frequency (MHz)													
80	QPSK	1	1	22.92	22.99	22.89	24.0	0.0					
Channel													
Frequency (MHz)													
70	QPSK	1	1	22.95	23.01	22.96	24.0	0.0					
Channel													
Frequency (MHz)													
60	QPSK	1	1	22.99	23.05	22.93	24.0	0.0					
Channel													
Frequency (MHz)													
50	QPSK	1	1	22.97	23.07	22.91	24.0	0.0					
Channel													
Frequency (MHz)													
40	QPSK	1	1	23.02	22.97	22.91	24.0	0.0					
Channel													
Frequency (MHz)													
30	QPSK	1	1	22.96	22.95	22.94	24.0	0.0					
Channel													
Frequency (MHz)													
25	QPSK	1	1	22.92	23.01	22.88	24.0	0.0					
Channel													
Frequency (MHz)													
20	QPSK	1	1	22.93	22.99	22.91	24.0	0.0					
Channel													
Frequency (MHz)													
15	QPSK	1	1	22.95	23.08	22.90	24.0	0.0					
Channel													
Frequency (MHz)													
10	QPSK	1	1	22.91	23.08	22.96	24.0	0.0					

Part270 n77 PC2 Ant4 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dbm)	MPR (db)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	25.90	25.99	25.95	27.0	0.0		
100	P12 BPSK	1	137	25.87	25.91	25.83				
100	P12 BPSK	1	271	25.75	25.87	25.83				
100	P12 BPSK	135	0	25.41	25.54	25.43	26.5	0.5		
100	P12 BPSK	135	69	25.90	25.96	25.89	27.0	0.0		
100	P12 BPSK	135	138	25.46	25.49	25.37	26.5	0.5		
100	P12 BPSK	270	0	25.44	25.53	25.41				
100	QPSK	1	1	26.00	26.07	26.04				
100	QPSK	1	137	25.98	26.04	25.96	27.0	0.0		
100	QPSK	1	271	25.79	25.88	25.80				
100	QPSK	135	0	24.96	25.01	24.95	26.0	1.0		
100	QPSK	135	69	25.93	26.04	25.99	27.0	0.0		
100	QPSK	135	138	24.98	24.93	24.80	26.0	1.0		
100	QPSK	270	0	24.89	24.99	24.87	26.0	1.0		
100	16QAM	1	1	24.59	24.66	24.63	26.0	1.0		
100	64QAM	1	1	23.10	23.17	23.03	24.5	2.5		
100	256QAM	1	1	21.63	21.71	21.67	22.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	25.89	25.93	25.97	27.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.92	25.97	25.93	27.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	25.94	26.01	25.97	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	25.96	26.02	25.93	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	25.89	25.99	26.00	27.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	25.97	25.97	25.95	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	25.96	26.04	25.97	27.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	25.94	25.93	25.94	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	25.96	25.95	26.00	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	25.90	25.94	25.94	27.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	25.86	25.95	25.94	27.0	0.0		

Part27Q n77 PC3 Ant4 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334		3500.01			
Frequency (MHz)						3500.01			
100	Pi/2 BPSK	1	1		23.12		24.0	0.0	
100	Pi/2 BPSK	1	137		23.04				
100	Pi/2 BPSK	1	271		22.96				
100	Pi/2 BPSK	135	0		22.94		24.0		0.0
100	Pi/2 BPSK	135	69		23.09		24.0		0.0
100	Pi/2 BPSK	135	138		22.91		24.0		0.0
100	Pi/2 BPSK	270	0		22.87		24.0	0.0	
100	QPSK	1	1		23.17				
100	QPSK	1	137		23.11				
100	QPSK	1	271		23.05		24.0	0.0	
100	QPSK	135	0		22.92				
100	QPSK	135	69		23.11				
100	QPSK	135	138		22.92		24.0		0.0
100	QPSK	270	0		22.98		24.0		0.0
100	16QAM	1	1		22.41		24.0		0.0
100	64QAM	1	1		22.46		24.0		0.0
100	256QAM	1	1		21.53		22.5		1.5
Channel				633000	633334	633668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.98	23.09	23.05	24.0		0.0
Channel				632668	633334	634000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	23.02	23.02	22.99	24.0		0.0
Channel				632334	633334	634334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.97	23.08	23.05	24.0		0.0
Channel				632000	633334	634668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	23.06	23.13	23.03	24.0		0.0
Channel				631668	633334	635000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	23.02	23.07	22.94	24.0		0.0
Channel				631334	633334	635334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	23.04	23.10	23.02	24.0		0.0
Channel				631000	633334	635668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	23.03	23.09	22.97	24.0		0.0
Channel				630634	633334	635934	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	23.01	23.13	22.97	24.0		0.0
Channel				630668	633334	636000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	23.03	23.08	23.03	24.0		0.0
Channel				630500	633334	636168	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	23.03	23.13	22.97	24.0		0.0
Channel				630334	633334	636334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	23.07	23.10	22.97	24.0		0.0

Part27Q n77 PC2 Ant4 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334		3500.01			
Frequency (MHz)						3500.01			
100	Pi/2 BPSK	1	1		26.18		27.0	0.0	
100	Pi/2 BPSK	1	137		26.13				
100	Pi/2 BPSK	1	271		26.07				
100	Pi/2 BPSK	135	0		26.05		26.5		0.5
100	Pi/2 BPSK	135	69		26.19		27.0		0.0
100	Pi/2 BPSK	135	138		25.50		26.5		0.5
100	Pi/2 BPSK	270	0		25.57		27.0	0.0	
100	QPSK	1	1		26.22				
100	QPSK	1	137		26.17				
100	QPSK	1	271		26.04		26.0	1.0	
100	QPSK	135	0		25.08				
100	QPSK	135	69		26.15				
100	QPSK	135	138		25.12		26.0		1.0
100	QPSK	270	0		25.18		26.0		1.0
100	16QAM	1	1		25.05		26.0		1.0
100	64QAM	1	1		22.96		24.5		2.5
100	256QAM	1	1		21.54		22.5		4.5
Channel				633000	633334	633668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	26.09	26.12	25.98	27.0		0.0
Channel				632668	633334	634000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	26.13	26.15	26.04	27.0		0.0
Channel				632334	633334	634334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	26.09	26.13	26.07	27.0		0.0
Channel				632000	633334	634668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	26.07	26.12	26.09	27.0		0.0
Channel				631668	633334	635000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	26.11	26.13	26.05	27.0		0.0
Channel				631334	633334	635334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	26.04	26.09	26.07	27.0		0.0
Channel				631000	633334	635668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	26.04	26.10	26.09	27.0		0.0
Channel				630634	633334	635934	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	26.15	26.13	26.02	27.0		0.0
Channel				630668	633334	636000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	26.05	26.09	26.10	27.0		0.0
Channel				630500	633334	636168	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	26.06	26.11	26.08	27.0		0.0
Channel				630334	633334	636334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	26.08	26.16	26.04	27.0		0.0

Part270 n78 PC3 Ant4 Default

BW [MHz]	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	24.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		23.04		24.0	0.0
100	PI/2 BPSK	1	137		23.00			
100	PI/2 BPSK	1	271		23.03			
100	PI/2 BPSK	135	0		22.88			
100	PI/2 BPSK	135	69		23.00		24.0	0.0
100	PI/2 BPSK	135	138		22.60		23.5	0.5
100	PI/2 BPSK	270	0		22.62		24.0	0.0
100	QPSK	1	1		23.06			
100	QPSK	1	137		23.03			
100	QPSK	1	271		23.02			
100	QPSK	135	0		22.15		23.0	1.0
100	QPSK	135	69		23.02		24.0	0.0
100	QPSK	135	138		22.06		23.0	1.0
100	QPSK	270	0		22.12		23.0	1.0
100	16QAM	1	1		21.97			
100	64QAM	1	1		20.30			
100	256QAM	1	1		18.90			
Channel				649668	650000	650334	24.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.94	23.00	22.89	24.0	0.0
Channel				649334	650000	650668	24.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.90	22.89	22.87	24.0	0.0
Channel				649000	650000	651000	24.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.89	22.98	22.86	24.0	0.0
Channel				648668	650000	651334	24.0	0.0
Frequency (MHz)				3730.02	3750	3770.03		
60	QPSK	1	1	22.94	22.97	22.86	24.0	0.0
Channel				648334	650000	651668	24.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.90	22.98	22.84	24.0	0.0
Channel				648000	650000	652000	24.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.94	23.00	22.91	24.0	0.0
Channel				647668	650000	652334	24.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.95	22.99	22.84	24.0	0.0
Channel				647334	650000	652668	24.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
25	QPSK	1	1	22.91	23.00	22.95	24.0	0.0
Channel				647000	650000	653000	24.0	0.0
Frequency (MHz)				3705	3750	3795		
20	QPSK	1	1	22.88	22.98	22.92	24.0	0.0
Channel				647168	650000	652834	24.0	0.0
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.91	23.01	22.90	24.0	0.0
Channel				647000	650000	653000	24.0	0.0
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.90	22.96	22.84	24.0	0.0

Part27Q n78 PC3 Ant4 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334	24.0	0.0
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1		23.06		24.0	0.0
100	PI/2 BPSK	1	137		23.00			
100	PI/2 BPSK	1	271		22.98			
100	PI/2 BPSK	135	0		22.53			
100	PI/2 BPSK	135	69		23.00		24.0	0.0
100	PI/2 BPSK	135	138		22.51		23.5	0.5
100	PI/2 BPSK	270	0		22.55		24.0	0.0
100	QPSK	1	1		23.12			
100	QPSK	1	137		23.06			
100	QPSK	1	271		23.01			
100	QPSK	135	0		22.03		23.0	1.0
100	QPSK	135	69		23.08		24.0	0.0
100	QPSK	135	138		22.02		23.0	1.0
100	QPSK	270	0		22.05		23.0	1.0
100	16QAM	1	1		21.37			
100	64QAM	1	1		19.91			
100	256QAM	1	1		18.50			
Channel				633000	633334	633668	24.0	0.0
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.93	23.01	22.94	24.0	0.0
Channel				632668	633334	634000	24.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.92	23.02	22.89	24.0	0.0
Channel				632334	633334	634334	24.0	0.0
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.01	23.02	22.90	24.0	0.0
Channel				632000	633334	634668	24.0	0.0
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.02	23.04	22.93	24.0	0.0
Channel				631668	633334	635000	24.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.94	22.97	22.90	24.0	0.0
Channel				631334	633334	635334	24.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.03	23.02	22.96	24.0	0.0
Channel				631000	633334	635668	24.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.94	23.04	22.99	24.0	0.0
Channel				630668	633334	635834	24.0	0.0
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	22.95	22.95	22.90	24.0	0.0
Channel				630334	633334	636000	24.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.96	22.97	22.98	24.0	0.0
Channel				630000	633334	636168	24.0	0.0
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	22.92	23.03	22.90	24.0	0.0
Channel				630334	633334	636334	24.0	0.0
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	23.02	23.04	22.86	24.0	0.0



n48 Part96 Ant5 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				640000	641666	643332		
Frequency (MHz)				3600	3624.99	3649.98		
100	P12 BPSK	1	1	23.17	23.28	23.17		0.0
100	P12 BPSK	1	137	23.15	23.22	23.17	24.0	
100	P12 BPSK	1	271	23.09	23.16	23.09		
100	P12 BPSK	135	0	22.58	22.73	22.60	23.5	0.5
100	P12 BPSK	135	69	23.10	23.23	23.09	24.0	0.0
100	P12 BPSK	135	138	22.64	22.78	22.73	23.5	0.5
100	P12 BPSK	270	0	22.73	22.80	22.85		
100	QPSK	1	1	23.24	23.34	23.26		
100	QPSK	1	137	23.20	23.31	23.23	24.0	0.0
100	QPSK	1	271	23.13	23.22	23.08		
100	QPSK	135	0	22.23	22.28	22.21	23.0	1.0
100	QPSK	135	69	23.19	23.29	23.26	24.0	0.0
100	QPSK	135	138	22.15	22.22	22.13	23.0	1.0
100	QPSK	270	0	22.16	22.30	22.19		
100	16QAM	1	1	21.85	21.93	21.79	23.0	1.0
100	64QAM	1	1	20.39	20.44	20.34	21.5	2.5
100	256QAM	1	1	18.91	19.04	18.89	19.5	4.5
Channel				639503	641666	643506	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3595.02	3624.99	3654.99		
90	QPSK	1	1	23.18	23.25	23.22	24.0	0.0
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3593.01	3624.99	3660		
80	QPSK	1	1	23.11	23.21	23.12	24.0	0.0
Channel				638968	641666	644966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3586.02	3624.99	3669.99		
60	QPSK	1	1	23.12	23.20	23.23	24.0	0.0
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3578.01	3624.99	3672		
50	QPSK	1	1	23.07	23.20	23.18	24.0	0.0
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3570	3624.99	3679.98		
40	QPSK	1	1	23.09	23.24	23.21	24.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	23.12	23.19	23.16	24.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.01	3624.99	3690		
20	QPSK	1	1	22.08	22.22	22.11	24.0	0.0
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.52	3624.99	3692.49		
15	QPSK	1	1	22.06	22.16	22.05	24.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	22.10	22.22	22.09	24.0	0.0

Part270 n77 PC3 Ant5 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	P12 BPSK	1	1	22.77	22.87	22.82		
100	P12 BPSK	1	137	22.68	22.82	22.78	24.0	0.0
100	P12 BPSK	1	271	22.65	22.76	22.71		
100	P12 BPSK	135	0	22.70	22.75	22.63	24.0	0.0
100	P12 BPSK	135	69	22.78	22.88	22.78	24.0	0.0
100	P12 BPSK	135	138	22.72	22.77	22.66	24.0	0.0
100	P12 BPSK	270	0	22.88	22.82	22.77		
100	QPSK	1	1	22.81	22.91	22.86		
100	QPSK	1	137	22.73	22.83	22.78	24.0	0.0
100	QPSK	1	271	22.64	22.77	22.68		
100	QPSK	135	0	22.65	22.80	22.65	24.0	0.0
100	QPSK	135	69	22.82	22.88	22.78	24.0	0.0
100	QPSK	135	138	22.62	22.76	22.64	24.0	0.0
100	QPSK	270	0	22.74	22.83	22.72		
100	16QAM	1	1	22.44	22.53	22.41	24.0	0.0
100	64QAM	1	1	22.37	22.48	22.36	24.0	0.0
100	256QAM	1	1	21.40	21.48	21.43	22.5	1.5
Channel				649668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.44	22.47	22.42	24.0	0.0
Channel				649334	650000	652998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.44	22.40	22.45	24.0	0.0
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.39	22.57	22.51	24.0	0.0
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.42	22.53	22.48	24.0	0.0
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.40	22.51	22.49	24.0	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.42	22.49	22.51	24.0	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.38	22.66	22.44	24.0	0.0
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	22.41	22.50	22.49	24.0	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.45	22.48	22.49	24.0	0.0
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.38	22.53	22.49	24.0	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.44	22.46	22.43	24.0	0.0

Part270 n77 PC2 Ant5 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	P12 BPSK	1	1	25.49	25.64	25.53		
100	P12 BPSK	1	137	25.50	25.59	25.46	27.0	0.0
100	P12 BPSK	1	271	25.41	25.52	25.45		
100	P12 BPSK	135	0	25.01	25.13	25.05	26.5	0.5
100	P12 BPSK	135	69	25.47	25.62	25.55	27.0	0.0
100	P12 BPSK	135	138	25.00	25.06	24.92	26.5	0.5
100	P12 BPSK	270	0	25.08	25.11	24.99		
100	QPSK	1	1	25.83	25.89	25.77		
100	QPSK	1	137	25.58	25.61	25.50	27.0	0.0
100	QPSK	1	271	25.42	25.56	25.42		
100	QPSK	135	0	24.46	24.81	24.55	26.0	1.0
100	QPSK	135	69	25.61	25.73	25.67	27.0	0.0
100	QPSK	135	138	24.45	24.56	24.52	26.0	1.0
100	QPSK	270	0	24.59	24.64	24.54		
100	16QAM	1	1	24.23	24.28	24.21	26.0	1.0
100	64QAM	1	1	22.62	22.72	22.62	24.5	2.5
100	256QAM	1	1	21.34	21.44	21.30	22.5	4.5
Channel				649668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	25.59	25.64	25.46	27.0	0.0
Channel				649334	650000	652998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	25.53	25.58	25.51	27.0	0.0
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	25.57	25.56	25.46	27.0	0.0
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	25.53	25.60	25.48	27.0	0.0
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	25.56	25.56	25.46	27.0	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	25.49	25.61	25.54	27.0	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	25.56	25.61	25.42	27.0	0.0
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	25.55	25.62	25.49	27.0	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.01		
20	QPSK	1	1	25.60	25.59	25.46	27.0	0.0
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	25.58	25.54	25.47	27.0	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	25.58	25.65	25.43	27.0	0.0

Part27Q n77 PC3 Ant5 Default

BW (MHz)	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		23.20			
100	PI2 BPSK	1	137		23.15		24.0	0.0
100	PI2 BPSK	1	271		22.98		24.0	0.0
100	PI2 BPSK	135	0		23.13		24.0	0.0
100	PI2 BPSK	135	69		23.16		24.0	0.0
100	PI2 BPSK	135	138		22.86		24.0	0.0
100	PI2 BPSK	270	0		23.14			
100	QPSK	1	1		23.23		24.0	0.0
100	QPSK	1	137		23.15			
100	QPSK	1	271		22.96			
100	QPSK	135	0		23.10		24.0	0.0
100	QPSK	135	69		23.17		24.0	0.0
100	QPSK	135	138		23.01		24.0	0.0
100	QPSK	270	0		23.13			
100	16QAM	1	1		22.98		24.0	0.0
100	64QAM	1	1		23.03		24.0	0.0
100	256QAM	1	1		22.07		22.5	1.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.08	23.11	23.04	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.10	23.19	23.06	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.06	23.17	23.10	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.13	23.12	23.02	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.15	23.10	23.04	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.08	23.15	23.07	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3533.02		
30	QPSK	1	1	23.09	23.17	23.07	24.0	0.0
Channel				630634	633334	635934	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	23.06	23.08	23.00	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.14	23.17	23.03	24.0	0.0
Channel				630600	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	23.09	23.15	23.01	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	23.09	23.14	23.08	24.0	0.0

Part27Q n77 PC2 Ant5 Default

BW (MHz)	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		26.25			
100	PI2 BPSK	1	137		26.19		27.0	0.0
100	PI2 BPSK	1	271		26.11		27.0	0.0
100	PI2 BPSK	135	0		25.76		26.5	0.5
100	PI2 BPSK	135	69		26.20		27.0	0.0
100	PI2 BPSK	135	138		25.03		26.5	0.5
100	PI2 BPSK	270	0		25.69			
100	QPSK	1	1		26.31		27.0	0.0
100	QPSK	1	137		26.26			
100	QPSK	1	271		26.21			
100	QPSK	135	0		25.22		26.0	1.0
100	QPSK	135	69		26.27		27.0	0.0
100	QPSK	135	138		26.26		26.0	1.0
100	QPSK	270	0		25.33			
100	16QAM	1	1		25.09		26.0	1.0
100	64QAM	1	1		23.52		24.5	2.5
100	256QAM	1	1		22.26		22.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	26.15	26.26	26.14	27.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	26.17	26.21	26.12	27.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	26.21	26.25	26.14	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	26.14	26.17	26.08	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	26.16	26.21	26.14	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	26.19	26.27	26.10	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3533.02		
30	QPSK	1	1	26.25	26.24	26.12	27.0	0.0
Channel				630634	633334	635934	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	26.24	26.18	26.19	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	26.20	26.25	26.15	27.0	0.0
Channel				630600	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	26.21	26.22	26.19	27.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	26.14	26.28	26.17	27.0	0.0

Part270 n78 PC3 Ant5 Default

BW [MHz]	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)				3750				
100	PI/2 BPSK	1	1		22.84		24.0	0.0
100	PI/2 BPSK	1	137		22.76			
100	PI/2 BPSK	1	271		22.85			
100	PI/2 BPSK	135	0		22.43			
100	PI/2 BPSK	135	69		22.80		24.0	0.0
100	PI/2 BPSK	135	138		22.37		23.5	0.5
100	PI/2 BPSK	270	0		22.44		24.0	0.0
100	QPSK	1	1		22.86			
100	QPSK	1	137		22.81			
100	QPSK	1	271		22.74			
100	QPSK	135	0		22.04		23.0	1.0
100	QPSK	135	69		22.62		24.0	0.0
100	QPSK	135	138		21.96		23.0	1.0
100	QPSK	270	0		22.03		23.0	1.0
100	16QAM	1	1		21.69			
100	64QAM	1	1		20.22			
100	256QAM	1	1		18.62			
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	22.55	22.64	22.49	24.0	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	22.50	22.61	22.53	24.0	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	22.52	22.63	22.47	24.0	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.03	(dBm)	(dB)
60	QPSK	1	1	22.57	22.56	22.51	24.0	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	22.53	22.65	22.56	24.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	22.57	22.60	22.47	24.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	22.50	22.60	22.53	24.0	0.0
Channel				647334	650000	652500	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
25	QPSK	1	1	22.52	22.56	22.48	24.0	0.0
Channel				647000	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3705.01	3750	3795.02	(dBm)	(dB)
20	QPSK	1	1	22.54	22.64	22.49	24.0	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1	22.49	22.55	22.48	24.0	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	22.57	22.62	22.51	24.0	0.0

Part27Q n78 PC3 Ant5 Default

BW [MHz]	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		23.27		24.0	0.0
100	PI/2 BPSK	1	137		23.19			
100	PI/2 BPSK	1	271		23.23			
100	PI/2 BPSK	135	0		22.72			
100	PI/2 BPSK	135	69		23.24		24.0	0.0
100	PI/2 BPSK	135	138		22.66		23.5	0.5
100	PI/2 BPSK	270	0		22.70		24.0	0.0
100	QPSK	1	1		23.33			
100	QPSK	1	137		23.28			
100	QPSK	1	271		23.26			
100	QPSK	135	0		22.51		23.0	1.0
100	QPSK	135	69		23.28		24.0	0.0
100	QPSK	135	138		22.92		23.0	1.0
100	QPSK	270	0		22.39		23.0	1.0
100	16QAM	1	1		22.27			
100	64QAM	1	1		20.82			
100	256QAM	1	1		18.96			
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	23.25	23.25	22.83	24.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	23.14	23.29	22.89	24.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	23.18	23.26	22.92	24.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	23.14	23.18	22.87	24.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	23.17	23.30	22.94	24.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	23.17	23.28	22.83	24.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	23.16	23.19	22.89	24.0	0.0
Channel				630834	633334	635834	Tune-up limit	MPR
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)
25	QPSK	1	1	23.19	23.23	22.93	24.0	0.0
Channel				630568	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.69	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	23.24	23.19	22.91	24.0	0.0
Channel				630500	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	23.19	23.27	22.84	24.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	23.23	23.29	22.87	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	529998	23.0	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.78	21.78	21.63	23.0	0.0	
100	PQ2 BPSK	1	137	21.50	21.59	21.58			
100	PQ2 BPSK	1	221	21.49	21.70	21.68	23.0	0.0	
100	PQ2 BPSK	135	0	21.65	21.63	21.59			
100	PQ2 BPSK	135	69	21.82	21.67	21.57	23.0	0.0	
100	PQ2 BPSK	135	138	21.61	21.79	21.48	23.0	0.0	
100	PQ2 BPSK	270	0	21.70	21.69	21.58			
100	QPSK	1	1	21.80	21.99	21.76	23.0	0.0	
100	QPSK	1	137	21.44	21.77	21.58			
100	QPSK	1	271	21.74	21.75	21.64	23.0	0.0	
100	QPSK	135	0	21.51	21.64	21.54			
100	QPSK	135	69	21.78	21.83	21.71	23.0	0.0	
100	QPSK	135	138	21.56	21.65	21.76	23.0	0.0	
100	QPSK	270	0	21.59	21.75	21.62			
100	16QAM	1	1	21.48	21.75	21.45	23.0	0.0	
100	64QAM	1	1	21.55	21.78	21.70	23.0	0.0	
100	256QAM	1	1	21.58	21.88	21.63	22.5	0.5	
Channel				506202	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.98	23.0	0.0	
90	QPSK	1	1	21.57	21.64	21.70			
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2593.02	2592.99	2640.99	23.0	0.0	
80	QPSK	1	1	21.74	21.80	21.61			
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	21.73	21.71	21.76			
Channel				506200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98	23.0	0.0	
60	QPSK	1	1	21.99	21.70	21.76			
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	21.58	21.87	21.64			
Channel				506202	518598	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	23.0	0.0	
40	QPSK	1	1	21.62	21.86	21.76			
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631	2592.99	2674.99	23.0	0.0	
30	QPSK	1	1	21.73	21.67	21.55			
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2676.99	23.0	0.0	
20	QPSK	1	1	21.68	21.70	21.68			
Channel				500100	518598	536996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2523.5	2592.99	2682.48	23.0	0.0	
15	QPSK	1	1	21.66	21.66	21.77			
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	21.67	21.69	21.69			



n48 Part96 Ant7 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				646000	641666	643333	24.0	0.0	
Frequency (MHz)				3600	3624.99	3649.98			
100	PV2 BPSK	1	1	22.49	22.60	22.56			
100	PV2 BPSK	1	137	22.43	22.54	22.50			
100	PV2 BPSK	1	271	22.43	22.52	22.42	23.5	0.5	
100	PV2 BPSK	135	0	22.22	22.35	22.27			
100	PV2 BPSK	135	69	22.53	22.57	22.54			
100	PV2 BPSK	135	138	22.17	22.31	22.22			
100	PV2 BPSK	270	0	22.27	22.35	22.28	24.0	0.0	
100	QPSK	1	1	22.59	22.65	22.60			
100	QPSK	1	137	22.53	22.59	22.54			
100	QPSK	1	271	22.50	22.56	22.52			
100	QPSK	135	0	21.54	21.68	21.58	23.0	1.0	
100	QPSK	135	69	22.52	22.62	22.48	24.0	0.0	
100	QPSK	135	138	21.55	21.66	21.63	23.0	1.0	
100	QPSK	270	0	21.66	21.72	21.60	23.0	1.0	
100	16QAM	1	1	21.18	21.22	21.19			
100	64QAM	1	1	19.66	19.73	19.60			
100	256QAM	1	1	18.54	18.63	18.51			
Channel				636000	641666	643333	24.0	0.0	
Frequency (MHz)				3595.02	3624.99	3654.99			
90	QPSK	1	1	22.53	22.60	22.49			
Channel				639334	641666	644000	24.0	MPR	
Frequency (MHz)				3590.01	3624.99	3650			
80	QPSK	1	1	22.49	22.57	22.46			
Channel				639668	641666	644666	24.0	MPR	
Frequency (MHz)				3580.02	3624.99	3669.99			
60	QPSK	1	1	22.46	22.52	22.49			
Channel				638334	641666	645000	24.0	MPR	
Frequency (MHz)				3625.01	3624.99	3675			
50	QPSK	1	1	22.47	22.53	22.47			
Channel				638000	641666	645332	24.0	MPR	
Frequency (MHz)				3570	3624.99	3676.98			
40	QPSK	1	1	22.54	22.52	22.50			
Channel				637668	641666	645556	24.0	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	22.56	22.56	22.55			
Channel				637334	641666	646000	24.0	MPR	
Frequency (MHz)				3520.01	3624.99	3690			
20	QPSK	1	1	22.52	22.53	22.49			
Channel				637168	641666	646168	24.0	MPR	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	22.48	22.59	22.53			
Channel				637000	641666	646332	24.0	MPR	
Frequency (MHz)				3655	3624.99	3694.98			
10	QPSK	1	1	22.55	22.57	22.54			

Part270 n77 PC2&PC3 Ant7 Default									
BW [MHz]	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	24.3	0.0	
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	23.09	23.13	23.04			
100	PV2 BPSK	1	137	23.03	23.07	22.97			
100	PV2 BPSK	1	271	22.92	22.98	22.90	23.8	0.5	
100	PV2 BPSK	135	0	22.82	22.73	22.80			
100	PV2 BPSK	135	69	22.97	23.08	22.95			
100	PV2 BPSK	135	138	22.55	22.64	22.60			
100	PV2 BPSK	270	0	22.63	22.69	22.58	24.3	0.0	
100	QPSK	1	1	23.11	23.16	23.14			
100	QPSK	1	137	23.08	23.12	23.04			
100	QPSK	1	271	22.88	22.97	22.91			
100	QPSK	135	0	22.05	22.18	22.06	23.3	1.0	
100	QPSK	135	69	23.07	23.12	23.04	24.3	0.0	
100	QPSK	135	138	22.07	22.13	22.10	23.3	1.0	
100	QPSK	270	0	22.11	22.15	22.15	23.3	1.0	
100	16QAM	1	1	21.80	21.84	21.72			
100	64QAM	1	1	20.23	20.32	20.22			
100	256QAM	1	1	18.97	19.05	18.95			
Channel				646000	650000	652334	24.3	MPR	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.99	23.06	23.06			
Channel				649334	650000	662668	24.3	MPR	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.07	23.04	23.02			
Channel				649000	650000	663000	24.3	MPR	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.96	23.09	22.99			
Channel				648668	650000	663334	24.3	MPR	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.05	23.15	23.08			
Channel				648334	650000	663668	24.3	MPR	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.04	23.08	23.06			
Channel				648000	650000	664000	24.3	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.03	23.15	23.04			
Channel				647668	650000	664334	24.3	MPR	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.99	23.09	23.04			
Channel				647500	650000	664500	24.3	MPR	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	23.06	23.10	23.09			
Channel				647334	650000	664668	24.3	MPR	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.01	23.12	23.06			
Channel				647168	650000	664834	24.3	MPR	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.97	23.04	23.01			
Channel				647000	650000	665000	24.3	MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.04	23.15	22.99			

Part270Q n77 PC2&PC3 Ant7 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334	3500.01	24.3	0.0	
Frequency (MHz)									
100	PV2 BPSK	1	1		23.22				
100	PV2 BPSK	1	137		23.18				
100	PV2 BPSK	1	271		23.12		23.8	0.5	
100	PV2 BPSK	135	0		22.77				
100	PV2 BPSK	135	69		23.19				
100	PV2 BPSK	135	138		22.76				
100	PV2 BPSK	270	0		22.77		24.3	0.0	
100	QPSK	1	1		23.25				
100	QPSK	1	137		23.13				
100	QPSK	1	271		22.99				
100	QPSK	135	0		22.19		23.3	1.0	
100	QPSK	135	69		23.21		24.3	0.0	
100	QPSK	135	138		22.20		23.3	1.0	
100	QPSK	270	0		22.25		23.3	1.0	
100	16QAM	1	1		21.94				
100	64QAM	1	1		20.36				
100	256QAM	1	1		19.06		19.8	4.5	
Channel				633500	633534	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486	3500.01	3505.02			
90	QPSK	1	1	23.16	23.20	23.06	24.3	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	23.11	23.10	23.04	24.3	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3516.01			
70	QPSK	1	1	23.14	23.13	23.11	24.3	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486	3500.01	3510.02			
60	QPSK	1	1	23.15	23.17	23.14	24.3	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	23.10	23.17	23.14	24.3	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	23.09	23.13	23.11	24.3	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	23.08	23.12	23.03	24.3	0.0	
Channel				630634	633334	636034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	23.17	23.21	23.08	24.3	0.0	
Channel				630368	633334	636360	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.25	3500.01	3540			
20	QPSK	1	1	23.15	23.19	23.09	24.3	0.0	
Channel				630050	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.6	3500.01	3542.52			
15	QPSK	1	1	23.11	23.13	23.07	24.3	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	23.14	23.18	23.12	24.3	0.0	

Part270 n78 PC3 Ant7 Default

BW [MHz]	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)				3750				
100	PI2 BPSK	1	1		22.33			
100	PI2 BPSK	1	137		22.27		24.0	0.0
100	PI2 BPSK	1	271		22.01			
100	PI2 BPSK	135	0		21.76		23.5	0.5
100	PI2 BPSK	135	69		22.27		24.0	0.0
100	PI2 BPSK	135	138		21.76		23.5	0.5
100	PI2 BPSK	270	0		21.76			
100	QPSK	1	1		22.37		24.0	0.0
100	QPSK	1	137		22.31			
100	QPSK	1	271		22.04			
100	QPSK	135	0		21.22		23.0	1.0
100	QPSK	135	69		22.31		24.0	0.0
100	QPSK	135	138		21.18		23.0	1.0
100	QPSK	270	0		21.22			
100	16QAM	1	1		21.09		23.0	1.0
100	64QAM	1	1		19.52		21.5	2.5
100	256QAM	1	1		18.32		19.5	4.5
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.25	22.22	22.18	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.25	22.30	22.25	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.30	22.27	22.22	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.21	22.24	22.20	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.19	22.26	22.21	24.0	0.0
Channel				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.23	22.28	22.22	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	22.21	22.27	22.23	24.0	0.0
Channel				647000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3767.5		
25	QPSK	1	1	22.21	22.30	22.15	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3760.02		
20	QPSK	1	1	22.19	22.32	22.17	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3762.51		
15	QPSK	1	1	22.23	22.26	22.20	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.20	22.22	22.14	24.0	0.0

Part27Q n78 PC3 Ant7 Default

BW [MHz]	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)				3500.01				
100	PI2 BPSK	1	1		22.88			
100	PI2 BPSK	1	137		22.69		24.0	0.0
100	PI2 BPSK	1	271		22.56			
100	PI2 BPSK	135	0		22.17		23.5	0.5
100	PI2 BPSK	135	69		22.75		24.0	0.0
100	PI2 BPSK	135	138		21.99		23.5	0.5
100	PI2 BPSK	270	0		22.02			
100	QPSK	1	1		22.90		24.0	0.0
100	QPSK	1	137		22.75			
100	QPSK	1	271		22.45			
100	QPSK	135	0		21.48		23.0	1.0
100	QPSK	135	69		22.58		24.0	0.0
100	QPSK	135	138		21.76		23.0	1.0
100	QPSK	270	0		21.80			
100	16QAM	1	1		21.68		23.0	1.0
100	64QAM	1	1		19.96		21.5	2.5
100	256QAM	1	1		18.44		19.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.56	22.79	22.58	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.59	22.74	22.59	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.82	22.74	22.58	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.68	22.65	22.55	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.78	22.75	22.57	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.71	22.72	22.69	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.82	22.75	22.73	24.0	0.0
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	22.75	22.74	22.58	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.58	22.68	22.57	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	22.83	22.75	22.56	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	22.83	22.82	22.76	24.0	0.0



n2 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374000	376000	378000		
Frequency (MHz)				1870	1880	1890		
40	PV2 BPSK	1	1	23.19	23.22	23.15		
40	PV2 BPSK	1	108	23.11	23.10	23.13	24.0	0.0
40	PV2 BPSK	1	214	22.96	23.17	23.11		
40	PV2 BPSK	108	0	22.36	22.59	22.39	23.5	0.5
40	PV2 BPSK	108	54	22.83	23.04	23.15	24.0	0.0
40	PV2 BPSK	108	108	22.51	22.49	22.43	23.5	0.5
40	PV2 BPSK	216	0	22.50	22.71	22.44		
40	QPSK	1	1	23.06	23.28	23.13		
40	QPSK	1	108	22.36	23.03	22.66	24.0	0.0
40	QPSK	1	214	22.93	23.06	22.77		
40	QPSK	108	0	21.93	22.04	22.16	23.0	1.0
40	QPSK	108	54	23.04	23.25	23.16	24.0	0.0
40	QPSK	108	108	22.51	22.05	22.05	23.0	1.0
40	QPSK	216	0	22.26	22.33	22.16		
40	16QAM	1	1	21.79	21.87	21.83	23.0	1.0
40	64QAM	1	1	20.27	20.34	20.22	21.5	2.5
40	256QAM	1	1	18.81	18.94	18.88	19.5	4.5
Channel				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1890	1895		
30	QPSK	1	1	22.99	23.19	23.10	24.0	0.0
Channel				372000	376000	379500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1897.5		
25	QPSK	1	1	22.87	23.21	23.11	24.0	0.0
Channel				372000	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	1	22.86	23.20	23.09	24.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1890	1902.5		
15	QPSK	1	1	22.87	23.12	23.05	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.93	23.14	23.07	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.99	23.10	23.11	24.0	0.0

Reduced Power Mode for EC16

n5 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166000	167300	167600		
Frequency (MHz)				834	836.5	839		
20	PV2 BPSK	1	1	22.88	23.01	22.94		
20	PV2 BPSK	1	53	22.69	22.73	22.73	24.0	0.0
20	PV2 BPSK	1	104	22.64	22.66	22.61		
20	PV2 BPSK	50	0	22.36	22.47	22.45	23.5	0.5
20	PV2 BPSK	50	28	22.78	22.81	22.75	24.0	0.0
20	PV2 BPSK	50	56	22.25	22.28	22.16	23.5	0.5
20	PV2 BPSK	100	0	22.27	22.44	22.33		
20	QPSK	1	1	22.90	23.03	22.85		
20	QPSK	1	53	22.58	22.71	22.66	24.0	0.0
20	QPSK	1	104	22.83	22.74	22.67		
20	QPSK	50	0	21.90	21.90	21.90	23.0	1.0
20	QPSK	50	28	22.82	22.94	22.86	24.0	0.0
20	QPSK	50	56	21.70	21.77	21.65	23.0	1.0
20	QPSK	100	0	21.87	21.92	21.86	23.0	1.0
20	16QAM	1	1	21.82	21.89	21.89	23.0	1.0
20	64QAM	1	1	20.20	20.25	20.13	21.5	2.5
20	256QAM	1	1	18.74	18.81	18.68	19.5	4.5
Channel				166000	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	834.5	841.5		
15	QPSK	1	1	22.85	22.91	22.79	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.75	22.94	22.79	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	22.81	22.95	22.73	24.0	0.0

n7 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				500000	507000	508000		
Frequency (MHz)				2500	2535	2545		
50	PV2 BPSK	1	1	22.73	22.79	22.65		
50	PV2 BPSK	1	135	22.67	22.86	22.82	24.0	0.0
50	PV2 BPSK	1	268	22.59	22.84	22.65		
50	PV2 BPSK	135	0	22.22	22.37	22.25	23.5	0.5
50	PV2 BPSK	135	68	22.77	22.76	22.77	24.0	0.0
50	PV2 BPSK	135	135	22.14	22.18	22.05	23.5	0.5
50	PV2 BPSK	270	0	22.06	22.21	22.10		
50	QPSK	1	1	22.83	22.98	22.77		
50	QPSK	1	135	22.69	22.76	22.76	24.0	0.0
50	QPSK	1	268	22.52	22.70	22.56		
50	QPSK	135	0	22.05	22.20	22.11	23.0	1.0
50	QPSK	135	68	22.88	22.90	22.84	24.0	0.0
50	QPSK	135	135	21.75	21.91	21.83	23.0	1.0
50	QPSK	270	0	21.79	21.92	21.86	23.0	1.0
50	16QAM	1	1	21.35	21.41	21.43	23.0	1.0
50	64QAM	1	1	19.88	20.06	19.92	21.5	2.5
50	256QAM	1	1	18.68	18.72	18.68	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2550		
40	QPSK	1	1	22.85	22.92	22.83	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.85	22.86	22.85	24.0	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.88	22.85	22.72	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.88	22.90	22.72	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	22.87	22.84	22.74	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.79	22.86	22.73	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	22.80	22.91	22.84	24.0	0.0



Reduced Power Mode for ECI6

n12 Ant0 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141000	141500	141700	24.0	0.0
Frequency (MHz)				705.5	707.5	708.5		
15	PV2 BPSK	1	1	22.81	22.96	22.97		
15	PV2 BPSK	1	40	22.95	22.98	22.77	24.0	0.0
15	PV2 BPSK	1	77	22.69	22.75	22.72	23.5	0.5
15	PV2 BPSK	36	0	22.37	22.45	22.32		
15	PV2 BPSK	36	22	22.70	22.82	22.87		
15	PV2 BPSK	36	43	21.99	22.05	21.94	23.5	0.5
15	PV2 BPSK	75	0	22.22	22.36	22.18	24.0	0.0
15	QPSK	1	1	22.95	23.07	22.81		
15	QPSK	1	40	22.72	22.97	22.84		
15	QPSK	1	77	22.71	22.83	22.88	23.0	1.0
15	QPSK	36	0	21.82	22.07	21.98		
15	QPSK	36	22	22.82	22.89	22.64		
15	QPSK	36	43	21.69	21.65	21.52	23.0	1.0
15	QPSK	75	0	21.72	21.77	21.66	23.0	1.0
15	16QAM	1	1	21.75	21.78	21.72		
15	64QAM	1	1	20.08	20.20	20.25		
15	256QAM	1	1	18.75	18.99	18.76	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	QPSK	1	1	22.78	22.87	22.89	24.0	0.0
Channel				140900	141500	142700	Tune-up limit (dBm)	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	QPSK	1	1	22.74	22.87	22.83	24.0	0.0

n14 Ant0 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158000		158000	24.0	0.0
Frequency (MHz)				793		793		
10	PV2 BPSK	1	1		23.12			
10	PV2 BPSK	1	26		23.05		23.5	0.5
10	PV2 BPSK	1	50		22.94			
10	PV2 BPSK	25	0		22.87			
10	PV2 BPSK	25	14		23.01		24.0	0.0
10	PV2 BPSK	25	27		22.81		23.5	0.5
10	PV2 BPSK	50	0		22.85			
10	QPSK	1	1		23.33			
10	QPSK	1	26		23.12		24.0	0.0
10	QPSK	1	50		23.04			
10	QPSK	25	0		22.23			
10	QPSK	25	14		23.29		24.0	0.0
10	QPSK	25	27		22.20		23.0	1.0
10	QPSK	50	0		22.26			
10	16QAM	1	1		21.88			
10	64QAM	1	1		20.53		21.5	2.5
10	256QAM	1	1		19.10		19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR
Frequency (MHz)				790.5	793	795.5	(dBm)	(dB)
5	QPSK	1	1	23.23	23.30	23.26	24.0	0.0

n25 Ant0 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374500	376500	378000	24.0	0.0
Frequency (MHz)				1870	1882.5	1895		
40	PV2 BPSK	1	1	23.14	23.21	22.97		
40	PV2 BPSK	1	108	23.07	23.17	23.01	23.5	0.5
40	PV2 BPSK	1	214	22.83	23.13	22.80		
40	PV2 BPSK	108	0	22.42	22.49	22.54		
40	PV2 BPSK	108	54	23.28	23.31	23.08	24.0	0.0
40	PV2 BPSK	108	108	22.55	22.56	22.48	23.5	0.5
40	PV2 BPSK	216	0	22.65	22.65	22.63		
40	QPSK	1	1	23.27	23.34	23.26		
40	QPSK	1	103	23.19	23.16	23.22	24.0	0.0
40	QPSK	1	214	22.95	23.22	23.11		
40	QPSK	108	0	21.94	22.18	21.95		
40	QPSK	108	54	23.05	23.12	23.06	23.0	1.0
40	QPSK	108	108	22.02	22.01	22.01	23.0	1.0
40	QPSK	216	0	22.29	22.29	22.26		
40	16QAM	1	1	21.57	21.76	21.57		
40	64QAM	1	1	20.15	20.40	20.24	21.5	2.5
40	256QAM	1	1	18.93	18.84	18.80	19.5	4.5
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1865	1882.5	1900	(dBm)	(dB)
30	QPSK	1	1	23.13	23.23	23.24	24.0	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1862.5	1882.5	1902.5	(dBm)	(dB)
25	QPSK	1	1	23.09	23.17	23.13	24.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1860	1882.5	1905	(dBm)	(dB)
20	QPSK	1	1	23.29	23.33	23.11	24.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1857.5	1882.5	1907.5	(dBm)	(dB)
15	QPSK	1	1	23.10	23.12	23.23	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1855	1882.5	1910	(dBm)	(dB)
10	QPSK	1	1	23.08	23.13	23.20	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1852.5	1882.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	23.17	23.22	23.21	24.0	0.0



n26 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164500	166300	167600	24.0	0.0	
Frequency (MHz)				834	831.5	839			
20	PI/2 BPSK	1	1	22.99	23.09	23.04	24.0	0.0	
20	PI/2 BPSK	1	53	22.80	22.94	22.75			
20	PI/2 BPSK	1	104	22.75	22.76	22.63			
20	PI/2 BPSK	50	0	22.51	22.62	22.55	23.5	0.5	
20	PI/2 BPSK	50	28	22.53	22.98	22.96	24.0	0.0	
20	PI/2 BPSK	50	56	22.26	22.41	22.26	23.5	0.5	
20	PI/2 BPSK	100	0	22.38	22.49	22.35	24.0	0.0	
20	QPSK	1	1	23.07	23.16	23.05			
20	QPSK	1	53	22.78	22.91	22.84			
20	QPSK	1	104	22.73	22.78	22.68	23.0	1.0	
20	QPSK	50	0	22.01	22.12	22.11			
20	QPSK	50	28	22.95	23.00	22.82			
20	QPSK	50	56	21.82	21.87	21.70	23.0	1.0	
20	QPSK	100	0	21.91	21.94	21.86	23.0	1.0	
20	16QAM	1	1	21.78	21.86	21.80			
20	64QAM	1	1	20.31	20.48	20.42	21.5	2.5	
20	256QAM	1	1	19.05	19.02	19.00	19.5	4.5	
Channel				164300	166300	166300	Tune-up limit (dB)	MPR	
Frequency (MHz)				831.5	831.5	831.5	24.0	0.0	
15	QPSK	1	1	22.99	23.02	22.94	24.0	0.0	
Channel				168800	166300	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				819	831.5	844	24.0	0.0	
10	QPSK	1	1	23.01	23.08	23.00			
Channel				163200	163200	163200	Tune-up limit (dBm)	MPR	
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0	
5	QPSK	1	1	22.92	23.04	22.92			

n30 Ant0 Default									
BW [MHz]	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	24.0	0.0	
Frequency (MHz)				2310	2310	2310			
10	PI/2 BPSK	1	1		23.30		24.0	0.0	
10	PI/2 BPSK	1	26		23.40				
10	PI/2 BPSK	1	50		23.38				
10	PI/2 BPSK	25	0		22.86		23.5	0.5	
10	PI/2 BPSK	25	14		23.36		24.0	0.0	
10	PI/2 BPSK	25	27		22.97		23.5	0.5	
10	PI/2 BPSK	50	0		22.89		24.0	0.0	
10	QPSK	1	1		23.49				
10	QPSK	1	26		23.31				
10	QPSK	1	50		23.34		23.0	1.0	
10	QPSK	25	0		22.38				
10	QPSK	25	14		23.42				
10	QPSK	25	27		22.30		23.0	1.0	
10	QPSK	50	0		22.36		23.0	1.0	
10	16QAM	1	1		21.88				
10	64QAM	1	1		20.45		21.5	2.5	
10	256QAM	1	1		19.21		19.5	4.5	
Channel				461500	462000	462500	Tune-up limit (dB)	MPR	
Frequency (MHz)				2307.5	2310	2312.5	24.0	0.0	
5	QPSK	1	1	23.32	23.41	23.13	24.0	0.0	

n66 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	24.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	23.07	23.18	23.03	24.0	0.0	
40	PI/2 BPSK	1	108	23.07	23.12	22.99			
40	PI/2 BPSK	1	214	23.01	23.05	22.94			
40	PI/2 BPSK	108	0	22.55	22.63	22.58	23.5	0.5	
40	PI/2 BPSK	108	54	23.03	23.08	22.88	24.0	0.0	
40	PI/2 BPSK	108	108	22.43	22.51	22.48	23.5	0.5	
40	PI/2 BPSK	216	0	22.44	22.52	22.43	24.0	0.0	
40	QPSK	1	1	23.15	23.24	23.20			
40	QPSK	1	103	23.14	23.19	23.07			
40	QPSK	1	214	23.00	23.13	23.01	23.0	1.0	
40	QPSK	108	0	22.91	22.15	22.11			
40	QPSK	108	54	23.12	23.18	23.15			
40	QPSK	108	108	21.95	22.00	21.91	23.0	1.0	
40	QPSK	216	0	22.96	22.13	22.10	23.0	1.0	
40	16QAM	1	1	21.72	21.82	21.77			
40	64QAM	1	1	20.22	20.30	20.27	21.5	2.5	
40	256QAM	1	1	18.69	18.62	18.78	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0	
30	QPSK	1	1	23.00	23.10	23.17	24.0	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0	
25	QPSK	1	1	23.09	23.12	23.11			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
20	QPSK	1	1	23.08	23.19	23.10			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
15	QPSK	1	1	23.04	23.12	23.17			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.02	23.19	23.14			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.00	23.19	23.07			

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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				340500	340500			
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	22.78			23.5	0.0
15	PI2 BPSK	1	40	22.69				
15	PI2 BPSK	1	77	22.62				
15	PI2 BPSK	36	0	22.64			23.5	0.0
15	PI2 BPSK	36	22	22.73			23.5	0.0
15	PI2 BPSK	36	43	22.54			23.5	0.0
15	PI2 BPSK	75	0	22.53			23.5	0.0
15	QPSK	1	1	22.82				
15	QPSK	1	40	22.78				
15	QPSK	1	77	22.73			23.0	0.5
15	QPSK	36	0	22.12			23.5	0.0
15	QPSK	36	22	22.76			23.0	0.5
15	QPSK	36	43	22.02			23.0	0.5
15	QPSK	75	0	22.16			23.0	0.5
15	16QAM	1	1	21.95			21.5	2.0
15	64QAM	1	1	20.38			19.5	4.0
15	256QAM	1	1	18.81				
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1702	1702.5	1703		
10	QPSK	1	1	22.68	22.69	22.61	23.5	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	22.70	22.73	22.63	23.5	0.0

n71 Ant0 Default								
BW [MHz]	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	23.10	23.20	23.01	24.0	0.0
20	PI2 BPSK	1	53	22.95	23.19	23.16		
20	PI2 BPSK	1	104	22.84	22.99	22.95		
20	PI2 BPSK	50	0	22.79	22.96	22.86	23.5	0.5
20	PI2 BPSK	50	28	22.85	23.02	22.90	24.0	0.0
20	PI2 BPSK	50	56	22.62	22.78	22.66	23.5	0.5
20	PI2 BPSK	100	0	22.70	22.80	22.68		
20	QPSK	1	1	23.14	23.25	22.96		
20	QPSK	1	53	23.15	23.21	22.91	24.0	0.0
20	QPSK	1	104	23.08	23.00	23.05		
20	QPSK	50	0	22.19	22.25	22.18	23.0	1.0
20	QPSK	50	28	22.99	23.21	22.92	24.0	0.0
20	QPSK	50	56	22.14	22.11	22.23	23.0	1.0
20	QPSK	100	0	22.12	22.17	22.15		
20	16QAM	1	1	21.67	21.95	21.77	23.0	1.0
20	64QAM	1	1	20.31	20.36	20.44	21.5	2.5
20	256QAM	1	1	18.67	18.56	18.57	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.04	23.05	22.88	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.96	23.20	22.78	24.0	0.0
Channel				133100	136100	137100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.10	23.19	22.85	24.0	0.0



n38 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	518000	518996	24.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PV2 BPSK	1	1	22.84	22.97	22.81		
40	PV2 BPSK	1	53	22.76	22.87	22.81		
40	PV2 BPSK	1	104	22.77	22.97	22.87	23.5	0.5
40	PV2 BPSK	50	0	22.38	22.37	22.47		
40	PV2 BPSK	50	28	22.96	23.04	22.80	24.0	0.0
40	PV2 BPSK	50	56	22.46	22.52	22.40	23.5	0.5
40	PV2 BPSK	100	0	22.21	22.27	22.22		
40	QPSK	1	1	22.94	23.04	22.96	24.0	0.0
40	QPSK	1	53	22.83	22.80	22.73		
40	QPSK	1	104	22.34	22.46	22.37	23.0	1.0
40	QPSK	50	0	21.65	21.92	21.65		
40	QPSK	50	28	22.58	22.97	22.77	24.0	0.0
40	QPSK	50	56	21.91	22.12	21.86	23.0	1.0
40	QPSK	100	0	21.79	21.95	21.90		
40	16QAM	1	1	21.14	21.41	21.22	23.0	1.0
40	64QAM	1	1	19.69	19.76	19.58	21.5	2.5
40	256QAM	1	1	18.24	18.30	18.13	19.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.91	23.02	22.83	24.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR
Frequency (MHz)				2575.02	2595	2607.48		
25	QPSK	1	1	22.76	23.00	22.69	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.81	22.82	22.67	24.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR
Frequency (MHz)				2572.51	2595	2612.49		
15	QPSK	1	1	22.74	22.96	22.74	24.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2575.03	2595	2614.98		
10	QPSK	1	1	22.95	22.97	22.82	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				509002	518598	530000	24.0	0.0
Frequency (MHz)				2540.01	2592.99	2640		
100	PV2 BPSK	1	1	22.41	22.54	22.53		
100	PV2 BPSK	1	137	22.64	22.59	22.47		
100	PV2 BPSK	1	271	22.33	22.53	22.34	24.0	0.0
100	PV2 BPSK	135	0	22.43	22.53	22.54		
100	PV2 BPSK	135	69	22.70	22.64	22.74	24.0	0.0
100	PV2 BPSK	135	138	22.68	22.58	22.73	24.0	0.0
100	PV2 BPSK	270	0	22.43	22.61	22.84		
100	QPSK	1	1	22.81	22.94	22.74	24.0	0.0
100	QPSK	1	137	22.56	22.71	22.83		
100	QPSK	1	271	22.19	22.32	22.25	24.0	0.0
100	QPSK	135	0	22.54	22.66	22.50		
100	QPSK	135	69	22.76	22.80	22.74	24.0	0.0
100	QPSK	135	138	22.60	22.56	22.53	24.0	0.0
100	QPSK	270	0	22.65	22.71	22.85		
100	16QAM	1	1	22.25	22.27	22.19	24.0	0.0
100	64QAM	1	1	22.34	22.17	22.37	24.0	0.0
100	256QAM	1	1	20.81	20.82	20.74	22.5	1.5
Channel				508000	518098	528998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.72	22.78	22.68	24.0	0.0
Channel				507004	518598	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2530.02	2592.99	2649.99		
80	QPSK	1	1	22.73	22.90	22.68	24.0	0.0
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.61	22.82	22.59	24.0	0.0
Channel				505000	518598	531998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	22.62	22.76	22.61	24.0	0.0
Channel				504004	518598	532998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.66	22.79	22.72	24.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.64	22.75	22.68	24.0	0.0
Channel				502000	518598	534998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.63	22.83	22.57	24.0	0.0
Channel				501004	518598	535998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.79	22.90	22.58	24.0	0.0
Channel				500000	518598	536498	Tune-up limit (dBm)	MPR
Frequency (MHz)				2501.5	2592.99	2682.48		
15	QPSK	1	1	22.80	22.78	22.58	24.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.68	22.86	22.66	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				509002	518598	530000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PV2 BPSK	1	1	22.83	22.98	22.90		
100	PV2 BPSK	1	137	23.02	23.01	22.90		
100	PV2 BPSK	1	271	22.78	22.96	22.85	24.0	0.0
100	PV2 BPSK	135	0	22.89	22.91	22.95		
100	PV2 BPSK	135	69	22.88	22.69	22.77	24.0	0.0
100	PV2 BPSK	135	138	22.87	22.63	22.88	24.0	0.0
100	PV2 BPSK	270	0	22.46	22.77	22.88		
100	QPSK	1	1	23.01	23.07	22.95	24.0	0.0
100	QPSK	1	137	22.75	22.82	22.83		
100	QPSK	1	271	22.53	22.68	22.70	24.0	0.0
100	QPSK	135	0	22.80	22.82	22.80		
100	QPSK	135	69	22.85	22.88	22.81	24.0	0.0
100	QPSK	135	138	22.80	22.72	22.89	24.0	0.0
100	QPSK	270	0	22.72	22.83	22.71		
100	16QAM	1	1	22.32	22.48	22.27	24.0	0.0
100	64QAM	1	1	22.39	22.20	22.47	24.0	0.0
100	256QAM	1	1	20.98	20.87	20.84	22.5	1.5
Channel				508000	518598	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.90	22.94	22.85	24.0	0.0
Channel				507004	518598	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2530.02	2592.99	2649.99		
80	QPSK	1	1	22.89	23.02	22.88	24.0	0.0
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.89	22.98	22.85	24.0	0.0
Channel				505000	518598	531998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	22.94	22.97	22.79	24.0	0.0
Channel				504004	518598	532998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.91	23.03	22.76	24.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.98	22.99	22.76	24.0	0.0
Channel				502000	518598	534998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.97	22.97	22.83	24.0	0.0
Channel				501004	518598	535998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.91	22.89	22.94	24.0	0.0
Channel				500000	518598	536498	Tune-up limit (dBm)	MPR
Frequency (MHz)				2501.5	2592.99	2682.48		
15	QPSK	1	1	22.84	22.92	22.78	24.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.88	22.87	22.76	24.0	0.0



n2 Ant1 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				374500	376000	379000	22.5	0.0
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	21.35	21.40	21.32		
40	PI2 BPSK	1	108	21.24	21.29	21.22		
40	PI2 BPSK	1	214	21.10	21.23	21.10	22.5	0.0
40	PI2 BPSK	108	0	21.23	21.32	21.23		
40	PI2 BPSK	108	54	21.25	21.39	21.36		
40	PI2 BPSK	108	108	21.23	21.28	21.14		
40	PI2 BPSK	216	0	21.23	21.27	21.17	22.5	0.0
40	QPSK	1	1	21.41	21.44	21.36		
40	QPSK	1	108	21.35	21.43	21.35		
40	QPSK	1	214	21.20	21.32	21.27		
40	QPSK	108	0	21.32	21.36	21.28	22.5	0.0
40	QPSK	108	54	21.28	21.35	21.28		
40	QPSK	108	108	21.22	21.26	21.13		
40	QPSK	216	0	21.20	21.27	21.15		
40	16QAM	1	1	21.32	21.34	21.26	22.5	0.0
40	64QAM	1	1	20.05	20.11	20.07		
40	256QAM	1	1	18.64	18.77	18.58		
Channel				375000	376000	379000		
Frequency (MHz)				1885	1890	1895	22.5	0.0
30	QPSK	1	1	21.28	21.34	21.23		
Channel				372500	376000	379500		
Frequency (MHz)				1892.5	1900	1907.5		
25	QPSK	1	1	21.21	21.41	21.31	22.5	0.0
Channel				372000	376000	380000		
Frequency (MHz)				1880	1880	1900		
20	QPSK	1	1	21.32	21.32	21.18		
Channel				371500	376000	380500	22.5	0.0
Frequency (MHz)				1897.5	1880	1902.5		
15	QPSK	1	1	21.32	21.40	21.30		
Channel				371000	376000	381000		
Frequency (MHz)				1885	1880	1905	22.5	0.0
10	QPSK	1	1	21.37	21.29	21.34		
Channel				370500	376000	381500		
Frequency (MHz)				1882.5	1880	1907.5		
5	QPSK	1	1	21.31	21.33	21.21	22.5	0.0

n5 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.89	22.91	22.85		
20	PI2 BPSK	1	53	22.71	22.78	22.80		
20	PI2 BPSK	1	104	22.65	22.72	22.78	23.5	0.5
20	PI2 BPSK	50	0	22.39	22.45	22.40		
20	PI2 BPSK	50	28	22.79	22.85	22.84		
20	PI2 BPSK	50	56	22.21	22.26	22.20		
20	PI2 BPSK	100	0	22.30	22.40	22.34	24.0	0.0
20	QPSK	1	1	22.91	22.96	22.91		
20	QPSK	1	53	22.67	22.78	22.82		
20	QPSK	1	104	22.63	22.83	22.59		
20	QPSK	50	0	21.80	22.11	21.98	23.0	1.0
20	QPSK	50	28	22.73	22.95	22.76		
20	QPSK	50	56	21.58	21.80	21.64		
20	QPSK	100	0	21.75	21.84	21.79		
20	16QAM	1	1	21.75	21.84	21.62	23.0	1.0
20	64QAM	1	1	20.18	20.38	20.29		
20	256QAM	1	1	18.65	18.58	18.69		
Channel				165300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0
15	QPSK	1	1	22.71	22.95	22.87		
Channel				166800	167300	168800		
Frequency (MHz)				820	824.5	824		
10	QPSK	1	1	22.78	22.79	22.78	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.79	22.81	22.90		

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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				505000	507000	509000	19.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	18.32	18.35	18.27		
50	PI2 BPSK	1	135	18.24	18.33	18.20		
50	PI2 BPSK	1	268	18.14	18.21	18.17	19.0	0.0
50	PI2 BPSK	135	0	18.12	18.24	18.21		
50	PI2 BPSK	135	68	18.26	18.37	18.32		
50	PI2 BPSK	135	135	18.16	18.27	18.16		
50	PI2 BPSK	270	0	18.20	18.29	18.23	19.0	0.0
50	QPSK	1	1	18.37	18.42	18.39		
50	QPSK	1	135	18.20	18.34	18.24		
50	QPSK	1	268	18.24	18.29	18.18		
50	QPSK	135	0	18.25	18.30	18.23	19.0	0.0
50	QPSK	135	68	18.31	18.38	18.31		
50	QPSK	135	135	18.29	18.34	18.28		
50	QPSK	270	0	18.32	18.37	18.30		
50	16QAM	1	1	18.09	18.23	18.20	19.0	0.0
50	64QAM	1	1	18.17	18.27	18.17		
50	256QAM	1	1	18.02	18.18	18.06		
Channel				504500	507000	510000		
Frequency (MHz)				2520	2535	2550	19.0	0.0
40	QPSK	1	1	18.31	18.29	18.25		
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.27	18.29	18.26	19.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.29	18.37	18.35		
Channel				502000	507000	512000	19.0	0.0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	18.23	18.39	18.34		
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5	19.0	0.0
15	QPSK	1	1	18.34	18.28	18.27		
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.24	18.38	18.26	19.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2597.5		
5	QPSK	1	1	18.25	18.34	18.27		



n12 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	23.10	23.07	23.10	24.0	0.0	
15	PI2 BPSK	1	40	22.92	22.85	22.87			
15	PI2 BPSK	1	77	22.36	22.55	22.59			
15	PI2 BPSK	36	0	22.63	22.63	22.69	23.5	0.5	
15	PI2 BPSK	36	22	23.06	22.94	22.91	24.0	0.0	
15	PI2 BPSK	36	43	22.29	22.34	22.19	23.5	0.5	
15	PI2 BPSK	75	0	22.32	22.48	22.48	24.0	0.0	
15	QPSK	1	1	23.12	23.17	23.06			
15	QPSK	1	40	22.77	22.88	22.91			
15	QPSK	1	77	22.48	22.54	22.29	23.0	1.0	
15	QPSK	36	0	22.18	22.11	22.13			
15	QPSK	36	22	22.98	23.07	23.02			
15	QPSK	36	43	21.94	22.06	22.01	23.0	1.0	
15	QPSK	75	0	22.14	22.27	22.02	23.0	1.0	
15	16QAM	1	1	21.93	21.86	21.77			
15	64QAM	1	1	20.32	20.61	20.47			
15	256QAM	1	1	18.85	18.84	18.80	19.5	4.5	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	23.00	23.03	22.88	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	23.01	23.09	22.78	24.0	0.0	

n14 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168600	169800	171000			
Frequency (MHz)				793	793	793			
10	PI2 BPSK	1	1		22.90		24.0	0.0	
10	PI2 BPSK	1	26		22.88				
10	PI2 BPSK	1	50		22.97				
10	PI2 BPSK	25	0		22.33		23.5	0.5	
10	PI2 BPSK	25	14		22.82		24.0	0.0	
10	PI2 BPSK	25	27		22.37		23.5	0.5	
10	PI2 BPSK	50	0		22.34		24.0	0.0	
10	QPSK	1	1		22.94				
10	QPSK	1	26		22.90				
10	QPSK	1	50		22.88		23.0	1.0	
10	QPSK	25	0		21.80				
10	QPSK	25	14		22.85				
10	QPSK	25	27		21.84		24.0	0.0	
10	QPSK	50	0		21.90		23.0	1.0	
10	16QAM	1	1		21.60		23.0	1.0	
10	64QAM	1	1		20.03		21.5	2.5	
10	256QAM	1	1		18.30		19.5	4.5	
Channel				168100	169800	169100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.70	22.79	22.66	24.0	0.0	

n25 Ant1 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				374500	376500	379500			
Frequency (MHz)				1870	1882.5	1895			
40	PI2 BPSK	1	1	21.49	21.54	21.48	22.5	0.0	
40	PI2 BPSK	1	108	21.36	21.40	21.34			
40	PI2 BPSK	1	214	21.20	21.34	21.22			
40	PI2 BPSK	108	0	21.32	21.38	21.39	22.5	0.0	
40	PI2 BPSK	108	54	21.39	21.47	21.52	22.5	0.0	
40	PI2 BPSK	108	108	21.32	21.40	21.22	22.5	0.0	
40	PI2 BPSK	216	0	21.38	21.43	21.32	22.5	0.0	
40	QPSK	1	1	21.56	21.59	21.54			
40	QPSK	1	108	21.42	21.49	21.43			
40	QPSK	1	214	21.28	21.42	21.35	21.5	0.0	
40	QPSK	108	0	21.38	21.42	21.44			
40	QPSK	108	54	21.37	21.50	21.37			
40	QPSK	108	108	21.29	21.36	21.29	22.5	0.0	
40	QPSK	216	0	21.26	21.41	21.25	22.5	0.0	
40	16QAM	1	1	21.41	21.45	21.43			
40	64QAM	1	1	20.14	20.38	20.34			
40	256QAM	1	1	18.78	19.08	18.76	19.5	3.0	
Channel				373200	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	21.45	21.50	21.43	22.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1922.5	1882.5	1922.5			
25	QPSK	1	1	21.50	21.54	21.49	22.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1880	1882.5	1905			
20	QPSK	1	1	21.50	21.50	21.48	22.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1882.5	1907.5			
15	QPSK	1	1	21.49	21.47	21.40	22.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	21.45	21.45	21.49	22.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	21.47	21.48	21.42	22.5	0.0	



n26 Ant1 Default							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PV2 BPSK	1	1	22.77	22.88	22.93	
20	PV2 BPSK	1	53	22.66	23.03	22.83	
20	PV2 BPSK	1	104	22.73	22.80	22.92	24.0
20	PV2 BPSK	50	0	22.17	22.24	22.30	23.5
20	PV2 BPSK	50	28	22.74	22.91	22.76	24.0
20	PV2 BPSK	50	56	22.34	22.33	22.38	23.5
20	PV2 BPSK	100	0	22.45	22.64	22.49	
20	QPSK	1	1	23.05	23.10	22.97	
20	QPSK	1	53	22.84	22.84	22.96	24.0
20	QPSK	1	104	22.89	22.76	22.61	
20	QPSK	50	0	21.73	22.04	21.99	23.0
20	QPSK	50	28	22.83	23.07	22.77	24.0
20	QPSK	50	56	21.91	21.82	21.81	23.0
20	QPSK	100	0	21.80	21.83	21.81	
20	16QAM	1	1	21.82	21.80	21.90	23.0
20	64QAM	1	1	20.40	20.32	20.27	21.5
20	256QAM	1	1	18.43	18.48	18.37	19.5
Channel				164300	166300	168300	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	1	23.03	23.06	22.87	24.0
Channel				163800	166300	168800	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	1	22.86	23.03	22.92	24.0
Channel				163300	166300	169300	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	1	22.84	22.90	22.93	24.0

n30 Ant1 ECI6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				460000	460000	460000	
Frequency (MHz)				2310			
10	PV2 BPSK	1	1		20.41		
10	PV2 BPSK	1	26		20.33		
10	PV2 BPSK	1	50		20.26		21.0
10	PV2 BPSK	25	0		20.29		21.0
10	PV2 BPSK	25	14		20.38		21.0
10	PV2 BPSK	25	27		20.26		21.0
10	PV2 BPSK	50	0		20.32		
10	QPSK	1	1		20.45		
10	QPSK	1	26		20.38		21.0
10	QPSK	1	50		20.28		
10	QPSK	25	0		20.25		21.0
10	QPSK	25	14		20.40		21.0
10	QPSK	25	27		20.30		21.0
10	QPSK	50	0		20.34		
10	16QAM	1	1		20.27		21.0
10	64QAM	1	1		20.40		21.0
10	256QAM	1	1		19.15		19.5
Channel				461600	462000	462500	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	1	20.30	20.37	20.21	21.0

n66 Ant1 ECI6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				346000	346000	350000	
Frequency (MHz)				1730	1745	1760	
40	PV2 BPSK	1	1	21.81	21.88	21.85	
40	PV2 BPSK	1	108	21.85	21.90	21.79	22.5
40	PV2 BPSK	1	214	21.87	21.70	21.64	
40	PV2 BPSK	108	0	21.87	21.75	21.82	22.5
40	PV2 BPSK	108	54	21.83	21.91	21.76	22.5
40	PV2 BPSK	108	108	21.69	21.76	21.64	22.5
40	PV2 BPSK	216	0	21.72	21.85	21.77	
40	QPSK	1	1	21.85	21.95	21.92	
40	QPSK	1	108	21.72	21.84	21.79	22.5
40	QPSK	1	214	21.68	21.80	21.67	
40	QPSK	108	0	21.72	21.85	21.72	22.5
40	QPSK	108	54	21.82	21.90	21.76	22.5
40	QPSK	108	108	21.68	21.78	21.68	22.5
40	QPSK	216	0	21.77	21.85	21.82	
40	16QAM	1	1	21.65	21.72	21.68	22.5
40	64QAM	1	1	20.35	20.50	20.37	21.5
40	256QAM	1	1	18.94	19.05	18.97	19.5
Channel				345000	346000	350000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	21.77	21.88	21.86	22.5
Channel				344900	346000	350000	
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	21.81	21.86	21.85	22.5
Channel				344000	346000	350000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	21.79	21.92	21.88	22.5
Channel				343900	346000	350000	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	21.74	21.86	21.83	22.5
Channel				343000	346000	350000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	21.79	21.91	21.87	22.5
Channel				342900	346000	350000	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	21.73	21.82	21.82	22.5

n70 Ant1 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				340500	1702.5		22.0	0.0	
Frequency (MHz)									
15	PI2 BPSK	1	1		21.15		22.0	0.0	
15	PI2 BPSK	1	40		21.11				
15	PI2 BPSK	1	77		20.88		22.0	0.0	
15	PI2 BPSK	36	0		20.97				
15	PI2 BPSK	36	22		21.09		22.0	0.0	
15	PI2 BPSK	36	43		20.97				
15	PI2 BPSK	75	0		21.05		22.0	0.0	
15	QPSK	1	1		21.18				
15	QPSK	1	40		21.08		22.0	0.0	
15	QPSK	1	77		21.02				
15	QPSK	36	0		21.01		22.0	0.0	
15	QPSK	36	22		21.15				
15	QPSK	36	43		21.01		22.0	0.0	
15	QPSK	75	0		21.05				
15	16QAM	1	1		20.97		22.0	0.0	
15	64QAM	1	1		20.21				
15	256QAM	1	1		18.64		19.5	2.5	
Channel				340000	1700	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	21.06	21.11	20.97	22.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	21.07	21.10	21.01	22.0	0.0	

n71 Ant1 Default									
BW [MHz]	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	24.0	0.0	
Frequency (MHz)				673	680.5	688			
20	PI2 BPSK	1	1	22.96	23.12	23.09	24.0	0.0	
20	PI2 BPSK	1	53	22.98	22.87	22.75			
20	PI2 BPSK	1	104	22.81	22.99	22.78	23.5	0.5	
20	PI2 BPSK	50	0	22.68	22.74	22.64			
20	PI2 BPSK	50	28	22.70	22.93	22.83	24.0	0.0	
20	PI2 BPSK	50	56	22.29	22.60	22.56			
20	PI2 BPSK	100	0	22.63	22.55	22.41	23.5	0.5	
20	QPSK	1	1	23.05	23.16	23.08			
20	QPSK	1	53	22.73	22.92	22.86	24.0	0.0	
20	QPSK	1	104	23.00	22.90	22.90			
20	QPSK	50	0	21.95	22.18	22.05	23.0	1.0	
20	QPSK	50	28	23.01	23.03	22.90			
20	QPSK	50	56	21.92	21.97	21.99	23.0	1.0	
20	QPSK	100	0	21.97	22.16	22.12			
20	16QAM	1	1	21.64	21.71	21.65	23.0	1.0	
20	64QAM	1	1	20.14	20.33	20.11			
20	256QAM	1	1	18.55	18.64	18.57	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	23.06	23.06	22.88	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	695			
10	QPSK	1	1	22.84	23.00	22.53	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.90	23.13	23.05	24.0	0.0	

n38 Ant1 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				516004	516000	516996	19.5	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	18.35	18.40	18.32			
40	PI/2 BPSK	1	53	18.21	18.36	18.30			
40	PI/2 BPSK	1	104	18.24	18.30	18.24	19.5	0.0	
40	PI/2 BPSK	50	0	18.24	18.28	18.17	19.5	0.0	
40	PI/2 BPSK	50	28	18.28	18.37	18.25	19.5	0.0	
40	PI/2 BPSK	50	56	18.25	18.29	18.21	19.5	0.0	
40	PI/2 BPSK	100	0	18.22	18.32	18.23	19.5	0.0	
40	QPSK	1	1	18.30	18.44	18.36	19.5	0.0	
40	QPSK	1	53	18.35	18.41	18.37			
40	QPSK	1	104	18.26	18.34	18.31			
40	QPSK	50	0	18.21	18.30	18.17			
40	QPSK	50	28	18.28	18.40	18.31	19.5	0.0	
40	QPSK	50	56	18.11	18.24	18.16	19.5	0.0	
40	QPSK	100	0	18.24	18.31	18.21	19.5	0.0	
40	16QAM	1	1	18.07	18.21	18.16	19.5	0.0	
40	64QAM	1	1	18.10	18.22	18.16	19.5	0.0	
40	256QAM	1	1	18.20	18.27	18.22	19.5	0.0	
Channel				517002	516000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	18.20	18.40	18.32	19.5	0.0	
Channel				516904	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	18.19	18.37	18.35	19.5	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	18.21	18.29	18.30	19.5	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.51	2595	2612.49			
15	QPSK	1	1	18.14	18.28	18.26	19.5	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	18.24	18.43	18.28	19.5	0.0	

n41 PC2&3 Ant1 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				502002	516998	526000	19.5	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.46	18.59	18.44			
100	PI/2 BPSK	1	137	18.39	18.42	18.49			
100	PI/2 BPSK	1	271	18.28	18.46	18.37	19.5	0.0	
100	PI/2 BPSK	135	0	18.41	18.47	18.30	19.5	0.0	
100	PI/2 BPSK	135	69	18.50	18.59	18.47	19.5	0.0	
100	PI/2 BPSK	135	138	18.29	18.36	18.37	19.5	0.0	
100	PI/2 BPSK	270	0	18.35	18.44	18.34	19.5	0.0	
100	QPSK	1	1	18.54	18.64	18.59	19.5	0.0	
100	QPSK	1	137	18.37	18.59	18.41			
100	QPSK	1	271	18.30	18.37	18.39			
100	QPSK	135	0	18.27	18.39	18.27			
100	QPSK	135	69	18.37	18.56	18.45	19.5	0.0	
100	QPSK	135	138	18.21	18.39	18.30	19.5	0.0	
100	QPSK	270	0	18.29	18.44	18.26	19.5	0.0	
100	16QAM	1	1	18.15	18.30	18.25	19.5	0.0	
100	64QAM	1	1	18.26	18.32	18.30	19.5	0.0	
100	256QAM	1	1	18.32	18.42	18.32	19.5	0.0	
Channel				502000	516998	526999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.41	18.57	18.54	19.5	0.0	
Channel				507204	516998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2539.02	2592.99	2648.99			
80	QPSK	1	1	18.47	18.59	18.49	19.5	0.0	
Channel				506202	516998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	18.47	18.54	18.55	19.5	0.0	
Channel				505200	516998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2629.98			
60	QPSK	1	1	18.51	18.51	18.49	19.5	0.0	
Channel				504204	516998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.46	18.50	18.53	19.5	0.0	
Channel				503202	516998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	18.49	18.55	18.46	19.5	0.0	
Channel				502200	516998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	18.45	18.61	18.55	19.5	0.0	
Channel				501204	516998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.41	18.59	18.53	19.5	0.0	
Channel				500700	516998	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2689.48			
15	QPSK	1	1	18.45	18.50	18.50	19.5	0.0	
Channel				500202	516998	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	18.43	18.62	18.53	19.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505200	518598	532000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	21.42	21.50	21.46	23.0	0.0
100	PI2 BPSK	1	137	21.39	21.44	21.30		
100	PI2 BPSK	1	271	21.32	21.36	21.24	23.0	0.0
100	PI2 BPSK	135	0	21.26	21.38	21.25		
100	PI2 BPSK	135	69	21.33	21.43	21.39	23.0	0.0
100	PI2 BPSK	135	138	21.17	21.22	21.09	23.0	0.0
100	PI2 BPSK	270	0	21.35	21.39	21.19	23.0	0.0
100	QPSK	1	1	21.45	21.56	21.39		
100	QPSK	1	137	21.38	21.40	21.34	23.0	0.0
100	QPSK	1	271	21.27	21.33	21.27		
100	QPSK	135	0	21.20	21.29	21.28	23.0	0.0
100	QPSK	135	69	21.29	21.46	21.39	23.0	0.0
100	QPSK	135	138	21.23	21.31	21.16	23.0	0.0
100	QPSK	270	0	21.37	21.45	21.36	23.0	0.0
100	16QAM	1	1	21.19	21.24	21.16	23.0	0.0
100	64QAM	1	1	21.15	21.26	21.13	23.0	0.0
100	256QAM	1	1	21.02	21.05	21.03	22.5	0.5
Channel				505200	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.37	21.46	21.33	23.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2643.99		
80	QPSK	1	1	21.35	21.47	21.25	23.0	0.0
Channel				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.37	21.43	21.31	23.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	21.42	21.48	21.33	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	21.39	21.45	21.33	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	21.39	21.50	21.32	23.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2211	2522.99	2374.98		
30	QPSK	1	1	21.32	21.42	21.32	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	21.39	21.45	21.26	23.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48		
15	QPSK	1	1	21.37	21.43	21.32	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	21.41	21.46	21.27	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				640000	641666	643332		
Frequency (MHz)				3600	3624.99	3649.98		
100	PI2 BPSK	1	1	21.44	21.48	21.41	22.0	0.0
100	PI2 BPSK	1	137	21.29	21.40	21.26		
100	PI2 BPSK	1	271	21.32	21.36	21.32	22.0	0.0
100	PI2 BPSK	135	0	21.38	21.42	21.37	22.0	0.0
100	PI2 BPSK	135	69	21.38	21.43	21.30	22.0	0.0
100	PI2 BPSK	135	138	21.26	21.36	21.23	22.0	0.0
100	PI2 BPSK	270	0	21.25	21.40	21.30	22.0	0.0
100	QPSK	1	1	21.45	21.53	21.40		
100	QPSK	1	137	21.32	21.45	21.40	22.0	0.0
100	QPSK	1	271	21.34	21.43	21.32		
100	QPSK	135	0	21.34	21.41	21.28	22.0	0.0
100	QPSK	135	69	21.42	21.49	21.34	22.0	0.0
100	QPSK	135	138	21.22	21.34	21.24	22.0	0.0
100	QPSK	270	0	21.30	21.41	21.27	22.0	0.0
100	16QAM	1	1	21.27	21.41	21.32	22.0	0.0
100	64QAM	1	1	20.45	20.57	20.43	21.5	0.5
100	256QAM	1	1	19.07	19.19	19.06	19.5	2.5
Channel				639668	641666	643332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3595.02	3624.99	3654.99		
90	QPSK	1	1	21.35	21.41	21.25	22.0	0.0
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3590.01	3624.99	3700		
80	QPSK	1	1	21.32	21.38	21.34	22.0	0.0
Channel				638668	641666	644666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3580.02	3624.99	3669.99		
60	QPSK	1	1	21.40	21.45	21.34	22.0	0.0
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3575.01	3624.99	3675		
50	QPSK	1	1	21.39	21.48	21.26	22.0	0.0
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3570	3624.99	3679.98		
40	QPSK	1	1	21.42	21.39	21.37	22.0	0.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	21.35	21.47	21.29	22.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3520.01	3624.99	3700		
20	QPSK	1	1	21.31	21.44	21.36	22.0	0.0
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.52	3624.99	3692.49		
15	QPSK	1	1	21.36	21.42	21.34	22.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	21.36	21.46	21.30	22.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	660000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	20.47	20.57	20.45	21.5	0.0
100	PI2 BPSK	1	137	20.32	20.42	20.28		
100	PI2 BPSK	1	271	20.26	20.39	20.37	21.5	0.0
100	PI2 BPSK	135	0	20.38	20.52	20.43	21.5	0.0
100	PI2 BPSK	135	69	20.41	20.54	20.55	21.5	0.0
100	PI2 BPSK	135	138	20.24	20.37	20.28	21.5	0.0
100	PI2 BPSK	270	0	20.52	20.53	20.45	21.5	0.0
100	QPSK	1	1	20.57	20.61	20.47		
100	QPSK	1	137	20.39	20.47	20.51	21.5	0.0
100	QPSK	1	271	20.37	20.51	20.41		
100	QPSK	135	0	20.43	20.51	20.42	21.5	0.0
100	QPSK	135	69	20.40	20.54	20.43	21.5	0.0
100	QPSK	135	138	20.33	20.45	20.34	21.5	0.0
100	QPSK	270	0	20.43	20.48	20.41	21.5	0.0
100	16QAM	1	1	20.39	20.46	20.27	21.5	0.0
100	64QAM	1	1	20.32	20.36	20.32	21.5	0.0
100	256QAM	1	1	20.14	20.38	20.26	21.5	0.0
Channel				649998	650000	650002	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.51	20.50	20.37	21.5	0.0
Channel				649334	650000	649998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.51	20.49	20.40	21.5	0.0
Channel				649000	650000	649998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	20.53	20.56	20.36	21.5	0.0
Channel				648668	650000	649334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.41	20.48	20.47	21.5	0.0
Channel				648334	650000	649668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	20.47	20.56	20.36	21.5	0.0
Channel				648000	650000	649000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.53	20.53	20.45	21.5	0.0
Channel				647668	650000	648334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.48	20.57	20.40	21.5	0.0
Channel				647500	650000	648400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	20.54	20.59	20.39	21.5	0.0
Channel				647250	650000	648250	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3709.91	3840	3970.02		
20	QPSK	1	1	20.40	20.59	20.44	21.5	0.0
Channel				647168	650000	648434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	20.44	20.60	20.52	21.5	0.0
Channel				647000	650000	649000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	20.56	20.55	20.43	21.5	0.0



Part27Q n77 PC3&2 Ant2 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				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		20.51		21.5	0.0	
100	PI2 BPSK	1	137		20.41				
100	PI2 BPSK	1	271		20.29		21.5	0.0	
100	PI2 BPSK	135	0		20.40				
100	PI2 BPSK	135	69		20.45		21.5	0.0	
100	PI2 BPSK	135	138		20.35		21.5	0.0	
100	PI2 BPSK	270	0		20.56		21.5	0.0	
100	QPSK	1	1		20.60				
100	QPSK	1	137		20.49		21.5	0.0	
100	QPSK	1	271		20.48				
100	QPSK	135	0		20.48		21.5	0.0	
100	QPSK	135	69		20.54		21.5	0.0	
100	QPSK	135	138		20.37		21.5	0.0	
100	QPSK	270	0		20.47				
100	16QAM	1	1		20.40		21.5	0.0	
100	64QAM	1	1		20.33		21.5	0.0	
100	256QAM	1	1		20.20		21.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	20.30	20.53	20.47	21.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3490.02	3500.01	3510.00			
80	QPSK	1	1	20.30	20.57	20.48	21.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	20.41	20.52	20.39	21.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	20.38	20.42	20.43	21.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	20.36	20.47	20.39	21.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	20.35	20.40	20.39	21.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	20.38	20.51	20.39	21.5	0.0	
Channel				630668	633334	635834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	20.45	20.42	20.49	21.5	0.0	
Channel				630334	633334	636000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3460.00	3500.01	3540			
20	QPSK	1	1	20.43	20.55	20.33	21.5	0.0	
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	20.47	20.39	20.40	21.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	20.29	20.52	20.47	21.5	0.0	

Part27O n78 PC3 Ant2 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				650000					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1		20.52		21.5	0.0	
100	PI2 BPSK	1	137		20.44				
100	PI2 BPSK	1	271		20.39		21.5	0.0	
100	PI2 BPSK	135	0		20.38				
100	PI2 BPSK	135	69		20.49		21.5	0.0	
100	PI2 BPSK	135	138		20.32		21.5	0.0	
100	PI2 BPSK	270	0		20.44		21.5	0.0	
100	QPSK	1	1		20.38				
100	QPSK	1	137		20.50		21.5	0.0	
100	QPSK	1	271		20.44				
100	QPSK	135	0		20.41		21.5	0.0	
100	QPSK	135	69		20.53		21.5	0.0	
100	QPSK	135	138		20.41		21.5	0.0	
100	QPSK	270	0		20.48				
100	16QAM	1	1		20.35		21.5	0.0	
100	64QAM	1	1		20.38		21.5	0.0	
100	256QAM	1	1		18.01	18.5	19.5	2.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.45	20.44	20.39	21.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.40	20.53	20.21	21.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.48	20.47	20.37	21.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.00	3750	3770.01			
60	QPSK	1	1	20.35	20.57	20.30	21.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.39	20.39	20.34	21.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.39	20.38	20.31	21.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.41	20.42	20.30	21.5	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	20.47	20.39	20.48	21.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3750	3792.02			
20	QPSK	1	1	20.30	20.57	20.43	21.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	20.29	20.42	20.34	21.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	20.35	20.47	20.44	21.5	0.0	

Part27Q n78 PC3 Ant2 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				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		20.45		21.5	0.0	
100	PI2 BPSK	1	137		20.38				
100	PI2 BPSK	1	271		20.30		21.5	0.0	
100	PI2 BPSK	135	0		20.26				
100	PI2 BPSK	135	69		20.44		21.5	0.0	
100	PI2 BPSK	135	138		20.23		21.5	0.0	
100	PI2 BPSK	270	0		20.30		21.5	0.0	
100	QPSK	1	1		20.32				
100	QPSK	1	137		20.40		21.5	0.0	
100	QPSK	1	271		20.36				
100	QPSK	135	0		20.38		21.5	0.0	
100	QPSK	135	69		20.48		21.5	0.0	
100	QPSK	135	138		20.32		21.5	0.0	
100	QPSK	270	0		20.38				
100	16QAM	1	1		20.23		21.5	0.0	
100	64QAM	1	1		20.33		21.5	0.0	
100	256QAM	1	1		18.47	19.5	21.5	2.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	20.29	20.35	20.40	21.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3490.02	3500.01	3510.00			
80	QPSK	1	1	20.39	20.27	20.43	21.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	20.200	20.330	20.47	21.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	20.43	20.48	20.45	21.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	20.31	20.48	20.32	21.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	20.37	20.39	20.43	21.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	20.39	20.36	20.39	21.5	0.0	
Channel				630668	633334	636334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	20.31	20.36	20.39	21.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	20.45	20.43	20.30	21.5	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	20.48	20.48	20.40	21.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	20.31	20.30	20.31	21.5	0.0	



n48 Part96 Ant4 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				646000	641666	643332	21.0	0.0	
Frequency (MHz)				3600	3624.99	3649.98			
100	PI2 BPSK	1	1	20.31	20.39	20.33			
100	PI2 BPSK	1	137	20.27	20.29	20.24	21.0	0.0	
100	PI2 BPSK	1	271	20.11	20.31	20.10			
100	PI2 BPSK	135	0	20.17	20.33	20.23			
100	PI2 BPSK	135	69	20.25	20.37	20.21	21.0	0.0	
100	PI2 BPSK	135	138	20.28	20.27	20.22	21.0	0.0	
100	PI2 BPSK	270	0	20.21	20.32	20.13			
100	QPSK	1	1	20.35	20.46	20.38			
100	QPSK	1	137	20.29	20.40	20.38	21.0	0.0	
100	QPSK	1	271	20.33	20.37	20.32			
100	QPSK	135	0	20.21	20.22	20.19			
100	QPSK	135	69	20.23	20.28	20.20	21.0	0.0	
100	QPSK	135	138	20.12	20.21	20.07	21.0	0.0	
100	QPSK	270	0	20.18	20.33	20.21			
100	16QAM	1	1	20.13	20.32	20.20	21.0	0.0	
100	64QAM	1	1	20.17	20.20	20.09	21.0	0.0	
100	256QAM	1	1	18.76	18.84	18.79	19.5	1.5	
Channel				636666	641666	643000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99			
90	QPSK	1	1	20.30	20.31	20.23	21.0	0.0	
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3550.01	3624.99	3660			
80	QPSK	1	1	20.29	20.34	20.25	21.0	0.0	
Channel				636666	641666	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3580.02	3624.99	3669.99			
60	QPSK	1	1	20.22	20.33	20.34	21.0	0.0	
Channel				636334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3625.01	3624.99	3675			
50	QPSK	1	1	20.24	20.37	20.28	21.0	0.0	
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3570	3624.99	3679.98			
40	QPSK	1	1	20.26	20.38	20.28	21.0	0.0	
Channel				637666	641666	645500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	20.22	20.40	20.31	21.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3520.01	3624.99	3690			
20	QPSK	1	1	20.27	20.41	20.27	21.0	0.0	
Channel				637168	641666	646168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	20.26	20.31	20.28	21.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3655	3624.99	3694.98			
10	QPSK	1	1	20.22	20.34	20.25	21.0	0.0	

Part270 n77 PC3&2 Ant4 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				650000	650000	650000	21.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.14	20.20	20.10			
100	PI2 BPSK	1	137	20.11	20.18	20.08	21.0	0.0	
100	PI2 BPSK	1	271	20.06	20.10	19.98			
100	PI2 BPSK	135	0	20.14	20.14	20.01			
100	PI2 BPSK	135	69	20.08	20.13	20.06	21.0	0.0	
100	PI2 BPSK	135	138	20.00	20.04	19.85	21.0	0.0	
100	PI2 BPSK	270	0	20.10	20.11	20.07			
100	QPSK	1	1	20.15	20.23	20.08			
100	QPSK	1	137	20.09	20.21	20.09	21.0	0.0	
100	QPSK	1	271	19.98	20.11	20.04			
100	QPSK	135	0	20.10	20.12	20.02			
100	QPSK	135	69	20.09	20.20	20.14	21.0	0.0	
100	QPSK	135	138	20.00	20.04	20.00	21.0	0.0	
100	QPSK	270	0	20.03	20.14	20.05			
100	16QAM	1	1	20.08	20.09	20.03	21.0	0.0	
100	64QAM	1	1	19.83	19.94	19.85	21.0	0.0	
100	256QAM	1	1	19.92	20.03	19.95	21.0	0.0	
Channel				645668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.15	20.04	20.06	21.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.08	20.14	20.10	21.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.10	20.06	20.18	21.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.12	20.16	20.05	21.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.02	20.03	19.99	21.0	0.0	
Channel				647666	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	20.02	20.10	20.08	21.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.01	3840	3970.02			
25	QPSK	1	1	20.19	20.03	20.15	21.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.16	20.08	20.03	21.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.09	20.06	20.02	21.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.06	20.13	20.15	21.0	0.0	

Part27Q n77 PC3&2 Ant4 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				633334			21.0	0.0	
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		20.26				
100	PI2 BPSK	1	137		20.21		21.0	0.0	
100	PI2 BPSK	1	271		20.07				
100	PI2 BPSK	135	0		20.08				
100	PI2 BPSK	135	69		20.03		21.0	0.0	
100	PI2 BPSK	135	138		20.03		21.0	0.0	
100	PI2 BPSK	270	0		20.20				
100	QPSK	1	1		20.26				
100	QPSK	1	137		20.21		21.0	0.0	
100	QPSK	1	271		20.18				
100	QPSK	135	0		20.08				
100	QPSK	135	69		20.23		21.0	0.0	
100	QPSK	135	138		20.10		21.0	0.0	
100	QPSK	270	0		20.17				
100	16QAM	1	1		20.12		21.0	0.0	
100	64QAM	1	1		19.99		21.0	0.0	
100	256QAM	1	1		20.00		21.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
				3486	3500.01	3505.02			
90	QPSK	1	1	20.07	20.16	20.09	21.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
				3450.02	3500.01	3510			
80	QPSK	1	1	20.08	20.20	20.09	21.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
				3485.01	3500.01	3515.01			
70	QPSK	1	1	20.09	20.16	20.14	21.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
				3488	3500.01	3520.02			
60	QPSK	1	1	20.05	20.24	20.19	21.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3500.01	3525			
50	QPSK	1	1	20.08	20.17	20.13	21.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
				3470.01	3500.01	3530.01			
40	QPSK	1	1	20.06	20.19	20.12	21.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
				3463	3500.01	3525.02			
30	QPSK	1	1	20.07	20.22	20.18	21.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
				3462.51	3500.01	3537.51			
25	QPSK	1	1	20.05	20.16	20.16	21.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
				3460.05	3500.01	3540			
20	QPSK	1	1	20.08	20.19	20.12	21.0	0.0	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
				3457.6	3500.01	3542.52			
15	QPSK	1	1	20.11	20.15	20.11	21.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
				3455.01	3500.01	3545.01			
10	QPSK	1	1	20.06	20.20	20.12	21.0	0.0	

Part27O n78 PC3 Ant4 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				3750			21.0	0.0			
Frequency (MHz)				20.11							
100	PI2 BPSK	1	1	20.09							
100	PI2 BPSK	1	137	20.09							
100	PI2 BPSK	1	271	19.91			21.0	0.0			
100	PI2 BPSK	135	0	20.02							
100	PI2 BPSK	135	69	19.98							
100	PI2 BPSK	135	138	19.86							
100	PI2 BPSK	270	0	19.92			21.0	0.0			
100	QPSK	1	1	20.16							
100	QPSK	1	137	20.05							
100	QPSK	1	271	20.02							
100	QPSK	135	0	20.04			21.0	0.0			
100	QPSK	135	69	20.11							
100	QPSK	135	138	19.94							
100	QPSK	270	0	20.03							
100	16QAM	1	1	20.00			21.0	0.0			
100	64QAM	1	1	19.93							
100	256QAM	1	1	18.58							
Channel				649668	650000	650334	Tune-up limit (dBm)				
Frequency (MHz)				3745.02	3750	3755.01	MPR (dB)				
90	QPSK	1	1	20.07	20.02	20.07	21.0	0.0			
Channel				649334	650000	650668	Tune-up limit (dBm)				
Frequency (MHz)				3740.01	3750	3760.02	MPR (dB)				
80	QPSK	1	1	20.02	20.12	20.13	21.0	0.0			
Channel				649000	650000	651000	Tune-up limit (dBm)				
Frequency (MHz)				3735	3750	3765	MPR (dB)				
70	QPSK	1	1	20.10	19.98	20.07	21.0	0.0			
Channel				648668	650000	651334	Tune-up limit (dBm)				
Frequency (MHz)				3730.02	3750	3770.01	MPR (dB)				
60	QPSK	1	1	20.03	20.14	20.13	21.0	0.0			
Channel				648334	650000	651668	Tune-up limit (dBm)				
Frequency (MHz)				3725.01	3750	3775.02	MPR (dB)				
50	QPSK	1	1	20.10	20.00	20.02	21.0	0.0			
Channel				648000	650000	652000	Tune-up limit (dBm)				
Frequency (MHz)				3720	3750	3780	MPR (dB)				
40	QPSK	1	1	20.01	19.99	20.00	21.0	0.0			
Channel				647668	650000	652334	Tune-up limit (dBm)				
Frequency (MHz)				3715.02	3750	3765.01	MPR (dB)				
30	QPSK	1	1	20.05	20.01	20.04	21.0	0.0			
Channel				647334	650000	652668	Tune-up limit (dBm)				
Frequency (MHz)				3710.01	3750	3760.02	MPR (dB)				
25	QPSK	1	1	19.94	19.99	19.98	21.0	0.0			
Channel				647000	650000	653000	Tune-up limit (dBm)				
Frequency (MHz)				3705	3750	3795	MPR (dB)				
20	QPSK	1	1	20.03	20.15	20.04	21.0	0.0			
Channel				647168	650000	652834	Tune-up limit (dBm)				
Frequency (MHz)				3707.52	3750	3792.51	MPR (dB)				
15	QPSK	1	1	19.99	20.05	20.04	21.0	0.0			
Channel				647000	650000	653000	Tune-up limit (dBm)				
Frequency (MHz)				3705	3750	3795	MPR (dB)				
10	QPSK	1	1	20.00	20.07	20.00	21.0	0.0			

Part27Q n78 PC3 Ant4 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				3500.01			21.0	0.0			
Frequency (MHz)				20.10							
100	PI2 BPSK	1	1	20.12							
100	PI2 BPSK	1	137	20.12							
100	PI2 BPSK	1	271	19.98			21.0	0.0			
100	PI2 BPSK	135	0	19.98							
100	PI2 BPSK	135	69	19.98							
100	PI2 BPSK	135	138	19.85							
100	PI2 BPSK	270	0	19.90			21.0	0.0			
100	QPSK	1	1	20.15							
100	QPSK	1	137	20.02							
100	QPSK	1	271	19.99							
100	QPSK	135	0	20.07			21.0	0.0			
100	QPSK	135	69	20.11							
100	QPSK	135	138	19.94							
100	QPSK	270	0	20.05							
100	16QAM	1	1	20.00			21.0	0.0			
100	64QAM	1	1	19.98							
100	256QAM	1	1	18.52							
Channel				633000	633334	633668	Tune-up limit (dBm)				
Frequency (MHz)				3495	3500.01	3505.02	MPR (dB)				
90	QPSK	1	1	20.07	20.06	20.03	21.0	0.0			
Channel				632668	633334	634000	Tune-up limit (dBm)				
Frequency (MHz)				3490.02	3500.01	3510	MPR (dB)				
80	QPSK	1	1	19.91	19.95	20.00	21.0	0.0			
Channel				632334	633334	634334	Tune-up limit (dBm)				
Frequency (MHz)				3485.01	3500.01	3515.01	MPR (dB)				
70	QPSK	1	1	20.04	20.10	20.07	21.0	0.0			
Channel				632000	633334	634668	Tune-up limit (dBm)				
Frequency (MHz)				3480	3500.01	3520.02	MPR (dB)				
60	QPSK	1	1	19.98	20.12	19.99	21.0	0.0			
Channel				631668	633334	635000	Tune-up limit (dBm)				
Frequency (MHz)				3475.02	3500.01	3525	MPR (dB)				
50	QPSK	1	1	19.94	20.11	19.93	21.0	0.0			
Channel				631334	633334	635334	Tune-up limit (dBm)				
Frequency (MHz)				3470.01	3500.01	3530.01	MPR (dB)				
40	QPSK	1	1	20.09	20.13	19.99	21.0	0.0			
Channel				631000	633334	635668	Tune-up limit (dBm)				
Frequency (MHz)				3465	3500.01	3535.02	MPR (dB)				
30	QPSK	1	1	19.93	20.02	19.95	21.0	0.0			
Channel				630668	633334	635934	Tune-up limit (dBm)				
Frequency (MHz)				3462.51	3500.01	3537.51	MPR (dB)				
25	QPSK	1	1	19.99	20.01	20.11	21.0	0.0			
Channel				630668	633334	636000	Tune-up limit (dBm)				
Frequency (MHz)				3460.02	3500.01	3540	MPR (dB)				
20	QPSK	1	1	20.05	20.10	20.05	21.0	0.0			
Channel				630500	633334	636188	Tune-up limit (dBm)				
Frequency (MHz)				3457.5	3500.01	3542.52	MPR (dB)				
15	QPSK	1	1	19.93	20.00	19.98	21.0	0.0			
Channel				630334	633334	636334	Tune-up limit (dBm)				
Frequency (MHz)				3455.01	3500.01	3545.01	MPR (dB)				
10	QPSK	1	1	20.10	20.06	20.05	21.0	0.0			



n48 Part96 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				646000	641666	643332			
Frequency (MHz)				3600	3624.99	3649.98			
100	P12 BPSK	1	1	23.17	23.28	23.17	24.0	0.0	
100	P12 BPSK	1	137	23.15	23.22	23.17			
100	P12 BPSK	1	271	23.09	23.16	23.09			
100	P12 BPSK	135	0	22.58	22.73	22.60	23.5	0.5	
100	P12 BPSK	135	69	23.10	23.23	23.09	24.0	0.0	
100	P12 BPSK	135	138	22.64	22.78	22.73	23.5	0.5	
100	P12 BPSK	270	0	22.73	22.80	22.65	24.0	0.0	
100	QPSK	1	1	23.24	23.34	23.26			
100	QPSK	1	137	23.20	23.31	23.23			
100	QPSK	1	271	23.13	23.22	23.08	23.0	1.0	
100	QPSK	135	0	22.23	22.28	22.21			
100	QPSK	135	69	23.19	23.29	23.26			
100	QPSK	135	138	22.15	22.22	22.13	23.0	1.0	
100	QPSK	270	0	22.16	22.30	22.19	23.0	1.0	
100	16QAM	1	1	21.85	21.93	21.79			
100	64QAM	1	1	20.39	20.44	20.34	21.5	2.5	
100	256QAM	1	1	18.91	19.04	18.89	19.5	4.5	
Channel				636999	641666	643666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99	24.0	0.0	
90	QPSK	1	1	23.18	23.25	23.22	24.0	0.0	
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3590.01	3624.99	3660	24.0	0.0	
80	QPSK	1	1	23.11	23.21	23.12	24.0	0.0	
Channel				638999	641666	644666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3589.02	3624.99	3669.99	24.0	0.0	
60	QPSK	1	1	23.12	23.20	23.23	24.0	0.0	
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3625.01	3624.99	3675	24.0	0.0	
50	QPSK	1	1	23.07	23.20	23.18	24.0	0.0	
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3670	3624.99	3679.98	24.0	0.0	
40	QPSK	1	1	23.09	23.24	23.21	24.0	0.0	
Channel				637666	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99	24.0	0.0	
30	QPSK	1	1	23.12	23.19	23.16	24.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3520.01	3624.99	3630	24.0	0.0	
20	QPSK	1	1	22.08	22.22	22.11	24.0	0.0	
Channel				637168	641666	646168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49	24.0	0.0	
15	QPSK	1	1	22.06	22.16	22.05	24.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3655	3624.99	3694.98	24.0	0.0	
10	QPSK	1	1	22.10	22.22	22.09	24.0	0.0	

Part270 n77 PC3 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	22.77	22.87	22.82	24.0	0.0	
100	P12 BPSK	1	137	22.68	22.82	22.78			
100	P12 BPSK	1	271	22.65	22.76	22.71			
100	P12 BPSK	135	0	22.70	22.75	22.63	24.0	0.0	
100	P12 BPSK	135	69	22.78	22.88	22.78	24.0	0.0	
100	P12 BPSK	135	138	22.72	22.77	22.66	24.0	0.0	
100	P12 BPSK	270	0	22.68	22.82	22.77	24.0	0.0	
100	QPSK	1	1	22.81	22.91	22.85			
100	QPSK	1	137	22.73	22.83	22.72			
100	QPSK	1	271	22.64	22.77	22.68	24.0	0.0	
100	QPSK	135	0	22.65	22.80	22.65			
100	QPSK	135	69	22.82	22.88	22.78			
100	QPSK	135	138	22.62	22.76	22.64	24.0	0.0	
100	QPSK	270	0	22.74	22.83	22.72	24.0	0.0	
100	16QAM	1	1	22.44	22.53	22.41			
100	64QAM	1	1	22.37	22.48	22.36	24.0	0.0	
100	256QAM	1	1	21.40	21.48	21.43	22.5	1.5	
Channel				646668	650000	663334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.44	22.47	22.42	24.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.44	22.49	22.45	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.39	22.57	22.51	24.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.42	22.53	22.48	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.40	22.51	22.49	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.42	22.49	22.51	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	22.38	22.56	22.44	24.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.41	22.50	22.49	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.45	22.48	22.49	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.38	22.53	22.49	24.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.44	22.48	22.43	24.0	0.0	

Part270 n77 PC2 Ant5 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				650000	650000	653000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	23.37	23.46	23.40	24.5	0.0	
100	P12 BPSK	1	137	23.36	23.45	23.37			
100	P12 BPSK	1	271	23.24	23.26	23.19			
100	P12 BPSK	135	0	23.19	23.27	23.25	24.5	0.0	
100	P12 BPSK	135	69	23.30	23.43	23.28	24.5	0.0	
100	P12 BPSK	135	138	23.22	23.26	23.15	24.5	0.0	
100	P12 BPSK	270	0	23.14	23.34	23.13	24.5	0.0	
100	QPSK	1	1	23.41	23.49	23.45			
100	QPSK	1	137	23.38	23.42	23.43			
100	QPSK	1	271	23.20	23.25	23.25	24.5	0.0	
100	QPSK	135	0	23.18	23.25	23.15			
100	QPSK	135	69	23.38	23.41	23.27			
100	QPSK	135	138	23.14	23.27	23.17	24.5	0.0	
100	QPSK	270	0	23.15	23.35	23.14	24.5	0.0	
100	16QAM	1	1	23.04	23.23	23.16	24.5	0.0	
100	64QAM	1	1	22.62	22.72	22.62	24.5	0.0	
100	256QAM	1	1	21.34	21.44	21.30	22.5	2.0	
Channel				656500	656500	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.34	23.45	23.37	24.5	0.0	
Channel				664034	666000	666968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.30	23.42	23.38	24.5	0.0	
Channel				665000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.26	23.37	23.39	24.5	0.0	
Channel				666668	666000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3728.02	3840	3950.01			
60	QPSK	1	1	23.34	23.42	23.40	24.5	0.0	
Channel				668334	656000	663968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.32	23.35	23.36	24.5	0.0	
Channel				670000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.38	23.45	23.33	24.5	0.0	
Channel				671668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	23.27	23.44	23.32	24.5	0.0	
Channel				675000	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	23.35	23.46	23.41	24.5	0.0	
Channel				677334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.35	23.44	23.31	24.5	0.0	
Channel				677168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.35	23.35	23.35	24.5	0.0	
Channel				678334	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.29	23.43	23.41	24.5	0.0	

Part27Q n77 PC3 Ant5 Default

BW [MHz]	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		23.20		24.0	0.0
100	PI/2 BPSK	1	137		23.15			
100	PI/2 BPSK	1	271		22.98			
100	PI/2 BPSK	135	0		23.13			
100	PI/2 BPSK	135	69		23.16		24.0	0.0
100	PI/2 BPSK	135	138		22.98		24.0	0.0
100	PI/2 BPSK	270	0		23.14		24.0	0.0
100	QPSK	1	1		23.20			
100	QPSK	1	137		23.15			
100	QPSK	1	271		22.98			
100	QPSK	135	0		23.10		24.0	0.0
100	QPSK	135	69		23.17		24.0	0.0
100	QPSK	135	138		23.01		24.0	0.0
100	QPSK	270	0		23.13		24.0	0.0
100	16QAM	1	1		22.98		24.0	0.0
100	64QAM	1	1		23.03		24.0	0.0
100	256QAM	1	1		22.07		22.5	1.5
Channel				633090	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	23.08	23.11	23.04	24.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	23.10	23.19	23.06	24.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	23.06	23.17	23.10	24.0	0.0
Channel				632090	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	23.13	23.12	23.02	24.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	23.15	23.10	23.04	24.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	23.08	23.15	23.07	24.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	23.09	23.17	23.07	24.0	0.0
Channel				630834	633334	635834	Tune-up limit	MPR
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)
25	QPSK	1	1	23.06	23.08	23.00	24.0	0.0
Channel				630598	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	23.14	23.17	23.03	24.0	0.0
Channel				630590	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	23.09	23.15	23.01	24.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	23.09	23.14	23.08	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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1		23.80		24.5	0.0
100	PI/2 BPSK	1	137		23.78			
100	PI/2 BPSK	1	271		23.69			
100	PI/2 BPSK	135	0		23.77			
100	PI/2 BPSK	135	69		23.74		24.5	0.0
100	PI/2 BPSK	135	138		23.64		24.5	0.0
100	PI/2 BPSK	270	0		23.65		24.5	0.0
100	QPSK	1	1		23.86			
100	QPSK	1	137		23.81			
100	QPSK	1	271		23.70			
100	QPSK	135	0		23.70		24.5	0.0
100	QPSK	135	69		23.77		24.5	0.0
100	QPSK	135	138		23.61		24.5	0.0
100	QPSK	270	0		23.76		24.5	0.0
100	16QAM	1	1		23.65		24.5	0.0
100	64QAM	1	1		23.52		24.5	0.0
100	256QAM	1	1		22.26		22.5	2.0
Channel				633090	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	23.66	23.79	23.66	24.5	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	23.66	23.71	23.73	24.5	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	23.69	23.79	23.62	24.5	0.0
Channel				632090	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	23.75	23.76	23.69	24.5	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	23.66	23.73	23.64	24.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	23.71	23.79	23.71	24.5	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	23.73	23.77	23.71	24.5	0.0
Channel				630834	633334	635834	Tune-up limit	MPR
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)
25	QPSK	1	1	23.65	23.74	23.63	24.5	0.0
Channel				630598	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	23.75	23.75	23.69	24.5	0.0
Channel				630590	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	23.77	23.75	23.68	24.5	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	23.68	23.70	23.68	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				650000			24.0	0.0
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1		22.84			
100	PI/2 BPSK	1	137		22.76			
100	PI/2 BPSK	1	271		22.85			
100	PI/2 BPSK	135	0		22.43			0.5
100	PI/2 BPSK	135	69		22.80			0.0
100	PI/2 BPSK	135	138		22.37			0.5
100	PI/2 BPSK	270	0		22.44			
100	QPSK	1	1		22.86			
100	QPSK	1	137		22.81			0.0
100	QPSK	1	271		22.74			
100	QPSK	135	0		22.04			1.0
100	QPSK	135	69		22.62			0.0
100	QPSK	135	138		21.96			1.0
100	QPSK	270	0		22.03			
100	16QAM	1	1		21.69			1.0
100	64QAM	1	1		20.22			2.5
100	256QAM	1	1		18.62			4.5
Channel				649668		650334	Tune-up limit	MPR
Frequency (MHz)				3745.02		3750	3755.01	
90	QPSK	1	1	22.55	22.64	22.49	24.0	0.0
Channel				649334		650000	650668	Tune-up limit
Frequency (MHz)				3740.01		3750	3760.02	MPR
80	QPSK	1	1	22.50	22.61	22.53	24.0	0.0
Channel				649000		650000	651000	Tune-up limit
Frequency (MHz)				3735		3750	3765	MPR
70	QPSK	1	1	22.52	22.63	22.47	24.0	0.0
Channel				648668		650000	651334	Tune-up limit
Frequency (MHz)				3730.02		3750	3770.03	MPR
60	QPSK	1	1	22.57	22.56	22.51	24.0	0.0
Channel				648334		650000	651668	Tune-up limit
Frequency (MHz)				3725.01		3750	3775.02	MPR
50	QPSK	1	1	22.53	22.65	22.56	24.0	0.0
Channel				648000		650000	652000	Tune-up limit
Frequency (MHz)				3720		3750	3780	MPR
40	QPSK	1	1	22.57	22.60	22.47	24.0	0.0
Channel				647668		650000	652334	Tune-up limit
Frequency (MHz)				3715.02		3750	3785.01	MPR
30	QPSK	1	1	22.50	22.60	22.53	24.0	0.0
Channel				647334		650000	652500	Tune-up limit
Frequency (MHz)				3710.01		3750	3790.02	MPR
25	QPSK	1	1	22.52	22.56	22.48	24.0	0.0
Channel				647000		650000	652668	Tune-up limit
Frequency (MHz)				3705.01		3750	3795.02	MPR
20	QPSK	1	1	22.54	22.64	22.49	24.0	0.0
Channel				647168		650000	652834	Tune-up limit
Frequency (MHz)				3707.52		3750	3792.51	MPR
15	QPSK	1	1	22.49	22.55	22.48	24.0	0.0
Channel				647000		650000	653000	Tune-up limit
Frequency (MHz)				3705		3750	3795	MPR
10	QPSK	1	1	22.57	22.62	22.51	24.0	0.0

Part27Q n78 PC3 Ant5 Default

BW [MHz]	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			24.0	0.0
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1		23.27			
100	PI/2 BPSK	1	137		23.19			
100	PI/2 BPSK	1	271		23.23			
100	PI/2 BPSK	135	0		22.72			0.5
100	PI/2 BPSK	135	69		23.24			0.0
100	PI/2 BPSK	135	138		22.66			0.5
100	PI/2 BPSK	270	0		22.70			
100	QPSK	1	1		23.28			
100	QPSK	1	137		23.28			0.0
100	QPSK	1	271		23.26			
100	QPSK	135	0		22.51			1.0
100	QPSK	135	69		23.28			0.0
100	QPSK	135	138		22.92			1.0
100	QPSK	270	0		22.39			
100	16QAM	1	1		22.27			1.0
100	64QAM	1	1		20.82			2.5
100	256QAM	1	1		18.96			4.5
Channel				633000		633334	633668	Tune-up limit
Frequency (MHz)				3495		3500.01	3505.02	MPR
90	QPSK	1	1	23.25	23.25	22.83	24.0	0.0
Channel				632668		633334	634000	Tune-up limit
Frequency (MHz)				3490.02		3500.01	3510	MPR
80	QPSK	1	1	23.14	23.29	22.89	24.0	0.0
Channel				632334		633334	634334	Tune-up limit
Frequency (MHz)				3485.01		3500.01	3515.01	MPR
70	QPSK	1	1	23.18	23.26	22.92	24.0	0.0
Channel				632000		633334	634668	Tune-up limit
Frequency (MHz)				3480		3500.01	3520.02	MPR
60	QPSK	1	1	23.14	23.18	22.87	24.0	0.0
Channel				631668		633334	635000	Tune-up limit
Frequency (MHz)				3475.02		3500.01	3525	MPR
50	QPSK	1	1	23.17	23.30	22.94	24.0	0.0
Channel				631334		633334	635334	Tune-up limit
Frequency (MHz)				3470.01		3500.01	3530.01	MPR
40	QPSK	1	1	23.17	23.28	22.83	24.0	0.0
Channel				631000		633334	635668	Tune-up limit
Frequency (MHz)				3465		3500.01	3535.02	MPR
30	QPSK	1	1	23.16	23.19	22.89	24.0	0.0
Channel				630834		633334	635834	Tune-up limit
Frequency (MHz)				3462.51		3500.01	3537.51	MPR
25	QPSK	1	1	23.19	23.23	22.93	24.0	0.0
Channel				630568		633334	636000	Tune-up limit
Frequency (MHz)				3460.69		3500.01	3540	MPR
20	QPSK	1	1	23.24	23.19	22.91	24.0	0.0
Channel				630500		633334	636168	Tune-up limit
Frequency (MHz)				3457.5		3500.01	3542.52	MPR
15	QPSK	1	1	23.19	23.27	22.84	24.0	0.0
Channel				630334		633334	636334	Tune-up limit
Frequency (MHz)				3455.01		3500.01	3545.01	MPR
10	QPSK	1	1	23.23	23.29	22.87	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				509202	518598	528000	23.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.78	21.78	21.63	23.0	0.0	
100	PI2 BPSK	1	137	21.50	21.59	21.56			
100	PI2 BPSK	1	271	21.49	21.70	21.68	23.0	0.0	
100	PI2 BPSK	135	0	21.85	21.63	21.59			
100	PI2 BPSK	135	69	21.62	21.67	21.57	23.0	0.0	
100	PI2 BPSK	135	138	21.61	21.79	21.46			
100	PI2 BPSK	270	0	21.70	21.69	21.56	23.0	0.0	
100	QPSK	1	1	21.80	21.66	21.76			
100	QPSK	1	137	21.44	21.77	21.58	23.0	0.0	
100	QPSK	1	271	21.74	21.75	21.64			
100	QPSK	135	0	21.51	21.64	21.54	23.0	0.0	
100	QPSK	135	69	21.78	21.83	21.71			
100	QPSK	135	138	21.66	21.65	21.76	23.0	0.0	
100	QPSK	270	0	21.59	21.75	21.82			
100	16QAM	1	1	21.48	21.75	21.45	23.0	0.0	
100	64QAM	1	1	21.55	21.78	21.70			
100	256QAM	1	1	21.56	21.68	21.63	22.5	0.5	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.57	21.64	21.70	23.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2549.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.74	21.80	21.61			
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.73	21.71	21.76	23.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2609.99	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	21.59	21.70	21.76			
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2564.99			
50	QPSK	1	1	21.58	21.67	21.64	23.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	21.62	21.86	21.76			
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2574.98			
30	QPSK	1	1	21.73	21.67	21.55	23.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	21.68	21.70	21.68			
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.5	2592.99	2682.48			
15	QPSK	1	1	21.66	21.66	21.77	23.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.67	21.69	21.69			



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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				646000	641666	643332	22.0	0.0	
Frequency (MHz)				3600	3624.99	3649.98			
100	PV2 BPSK	1	1	20.56	20.66	20.63			
100	PV2 BPSK	1	137	20.54	20.60	20.51			
100	PV2 BPSK	1	271	20.43	20.56	20.45	22.0	0.0	
100	PV2 BPSK	135	0	20.46	20.51	20.47			
100	PV2 BPSK	135	69	20.58	20.62	20.48			
100	PV2 BPSK	135	138	20.41	20.50	20.43			
100	PV2 BPSK	270	0	20.52	20.57	20.42	22.0	0.0	
100	QPSK	1	1	20.70	20.75	20.68			
100	QPSK	1	137	20.55	20.68	20.64			
100	QPSK	1	271	20.49	20.61	20.58			
100	QPSK	135	0	20.39	20.50	20.43	22.0	0.0	
100	QPSK	135	69	20.58	20.66	20.61			
100	QPSK	135	138	20.48	20.54	20.42			
100	QPSK	270	0	20.55	20.59	20.46			
100	16QAM	1	1	20.44	20.52	20.41	22.0	0.0	
100	64QAM	1	1	19.66	19.73	19.60			
100	256QAM	1	1	18.54	18.63	18.51			
Channel				636000	641666	643332	22.0	0.0	
Frequency (MHz)				3595.02	3624.99	3654.99			
90	QPSK	1	1	20.56	20.63	20.60			
Channel				639334	641666	644000	22.0	MPR	
Frequency (MHz)				3590.01	3624.99	3650			
80	QPSK	1	1	20.68	20.59	20.58			
Channel				639668	641666	644666	22.0	MPR	
Frequency (MHz)				3580.02	3624.99	3669.99			
60	QPSK	1	1	20.57	20.62	20.63			
Channel				638334	641666	645000	22.0	MPR	
Frequency (MHz)				3625.01	3624.99	3675			
50	QPSK	1	1	20.61	20.58	20.58			
Channel				638000	641666	645332	22.0	MPR	
Frequency (MHz)				3570	3624.99	3679.98			
40	QPSK	1	1	20.62	20.60	20.58			
Channel				637668	641666	645666	22.0	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	20.61	20.67	20.59			
Channel				637334	641666	646000	22.0	MPR	
Frequency (MHz)				3520.01	3624.99	3690			
20	QPSK	1	1	20.59	20.67	20.60			
Channel				637168	641666	646168	22.0	MPR	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	20.56	20.65	20.56			
Channel				637000	641666	646332	22.0	MPR	
Frequency (MHz)				3655	3624.99	3694.98			
10	QPSK	1	1	20.60	20.67	20.54			

Part270 n77 PC2 Ant7 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				650000	650000	650000	21.8	0.0	
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	20.67	20.73	20.58			
100	PV2 BPSK	1	137	20.54	20.69	20.65			
100	PV2 BPSK	1	271	20.59	20.64	20.58	21.8	0.0	
100	PV2 BPSK	135	0	20.48	20.54	20.50			
100	PV2 BPSK	135	69	20.65	20.69	20.65			
100	PV2 BPSK	135	138	20.46	20.56	20.48			
100	PV2 BPSK	270	0	20.58	20.60	20.45	21.8	0.0	
100	QPSK	1	1	20.74	20.77	20.68			
100	QPSK	1	137	20.71	20.74	20.68			
100	QPSK	1	271	20.58	20.66	20.52			
100	QPSK	135	0	20.52	20.56	20.50	21.8	0.0	
100	QPSK	135	69	20.59	20.69	20.62			
100	QPSK	135	138	20.50	20.55	20.48			
100	QPSK	270	0	20.49	20.62	20.55			
100	16QAM	1	1	20.45	20.59	20.54	21.8	0.0	
100	64QAM	1	1	20.23	20.32	20.22			
100	256QAM	1	1	18.97	19.05	18.99			
Channel				645668	650000	652334	21.8	MPR	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.68	20.74	20.60			
Channel				649334	650000	662668	21.8	MPR	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.67	20.65	20.54			
Channel				649000	650000	663000	21.8	MPR	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.60	20.63	20.62			
Channel				648668	650000	663334	21.8	MPR	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.61	20.65	20.63			
Channel				648334	650000	663668	21.8	MPR	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.67	20.65	20.62			
Channel				648000	650000	664000	21.8	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.71	20.66	20.58			
Channel				647668	650000	664334	21.8	MPR	
Frequency (MHz)				3713.02	3840	3965.01			
30	QPSK	1	1	20.63	20.67	20.54			
Channel				647500	650000	664500	21.8	MPR	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.63	20.71	20.59			
Channel				647334	650000	664668	21.8	MPR	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.69	20.68	20.57			
Channel				647168	650000	664834	21.8	MPR	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.68	20.64	20.59			
Channel				647000	650000	665000	21.8	MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.60	20.72	20.63			

Part27Q n77 PC2 Ant7 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				633000	633334	633334	21.8	0.0	
Frequency (MHz)				3500.01					
100	PV2 BPSK	1	1		20.80				
100	PV2 BPSK	1	137		20.75				
100	PV2 BPSK	1	271		20.71		21.8	0.0	
100	PV2 BPSK	135	0		20.60				
100	PV2 BPSK	135	69		20.74				
100	PV2 BPSK	135	138		20.65				
100	PV2 BPSK	270	0		20.71		21.8	0.0	
100	QPSK	1	1		20.83				
100	QPSK	1	137		20.77				
100	QPSK	1	271		20.67				
100	QPSK	135	0		20.61		21.8	0.0	
100	QPSK	135	69		20.76				
100	QPSK	135	138		20.62				
100	QPSK	270	0		20.69				
100	16QAM	1	1		20.66		21.8	0.0	
100	64QAM	1	1		20.36				
100	256QAM	1	1		19.08				
Channel				633000	633334	633668	21.8	2.3	
Frequency (MHz)				3466	3500.01	3506.02			
90	QPSK	1	1	20.69	20.75	20.71			
Channel				632668	633334	634000			
Frequency (MHz)				3480.02	3500.01	3510	21.8	0.0	
80	QPSK	1	1	20.70	20.76	20.65			
Channel				632224	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	20.67	20.71	20.64	21.8	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3490.01	3500.01	3520.02			
60	QPSK	1	1	20.71	20.71	20.72			
Channel				631668	633334	635000	21.8	0.0	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	20.76	20.69	20.68			
Channel				631334	633334	635334			
Frequency (MHz)				3470.03	3500.01	3530.01	21.8	0.0	
40	QPSK	1	1	20.76	20.70	20.68			
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	20.77	20.76	20.61	21.8	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	20.72	20.72	20.61			
Channel				630500	633334	636368	21.8	0.0	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	20.67	20.69	20.63			
Channel				630334	633334	636668			
Frequency (MHz)				3455.01	3500.01	3545.01	21.8	0.0	
10	QPSK	1	1	20.73	20.69	20.68			

Part27O n78 PC3 Ant7 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				650000			21.5	0.0			
Frequency (MHz)				3750							
100	PI2 BPSK	1	1		19.88		21.5	0.0			
100	PI2 BPSK	1	137		19.82						
100	PI2 BPSK	1	271		19.74						
100	PI2 BPSK	135	0		19.70						
100	PI2 BPSK	135	69		19.83		21.5	0.0			
100	PI2 BPSK	135	138		19.81		21.5	0.0			
100	PI2 BPSK	270	0		19.86						
100	QPSK	1	1		19.92		21.5	0.0			
100	QPSK	1	137		19.75						
100	QPSK	1	271		19.72		21.5	0.0			
100	QPSK	135	0		19.79						
100	QPSK	135	69		19.87						
100	QPSK	135	138		19.72						
100	QPSK	270	0		19.75		21.5	0.0			
100	16QAM	1	1		19.60		21.5	0.0			
100	64QAM	1	1		19.52		21.5	0.0			
100	256QAM	1	1		18.32		19.5	2.0			
Channel				649668	650000	650234	Tune-up limit (dBm)				
Frequency (MHz)				3745.02	3750	3755.01	MPR (dB)				
90	QPSK	1	1	19.81	19.89	19.72	21.5	0.0			
Channel				649334	650000	650668	Tune-up limit (dBm)				
Frequency (MHz)				3740.01	3750	3760.02	MPR (dB)				
80	QPSK	1	1	19.83	19.80	19.79	21.5	0.0			
Channel				649000	650000	651000	Tune-up limit (dBm)				
Frequency (MHz)				3735	3750	3765	MPR (dB)				
70	QPSK	1	1	19.79	19.86	19.71	21.5	0.0			
Channel				648668	650000	651334	Tune-up limit (dBm)				
Frequency (MHz)				3730.02	3750	3770.01	MPR (dB)				
60	QPSK	1	1	19.75	19.78	19.73	21.5	0.0			
Channel				648334	650000	651668	Tune-up limit (dBm)				
Frequency (MHz)				3725.01	3750	3775.02	MPR (dB)				
50	QPSK	1	1	19.80	19.83	19.75	21.5	0.0			
Channel				648000	650000	652000	Tune-up limit (dBm)				
Frequency (MHz)				3720	3750	3780	MPR (dB)				
40	QPSK	1	1	19.84	19.77	19.76	21.5	0.0			
Channel				647668	650000	652334	Tune-up limit (dBm)				
Frequency (MHz)				3715.02	3750	3765.01	MPR (dB)				
30	QPSK	1	1	19.77	19.83	19.76	21.5	0.0			
Channel				647500	650000	652500	Tune-up limit (dBm)				
Frequency (MHz)				3712.5	3750	3787.5	MPR (dB)				
25	QPSK	1	1	19.80	19.79	19.70	21.5	0.0			
Channel				647334	650000	652668	Tune-up limit (dBm)				
Frequency (MHz)				3710.01	3750	3790.02	MPR (dB)				
20	QPSK	1	1	19.78	19.85	19.71	21.5	0.0			
Channel				647168	650000	652834	Tune-up limit (dBm)				
Frequency (MHz)				3707.52	3750	3792.51	MPR (dB)				
15	QPSK	1	1	19.75	19.83	19.71	21.5	0.0			
Channel				647000	650000	653000	Tune-up limit (dBm)				
Frequency (MHz)				3705	3750	3795	MPR (dB)				
10	QPSK	1	1	19.75	19.87	19.76	21.5	0.0			

Part27Q n78 PC3 Ant7 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				63000			21.5	0.0			
Frequency (MHz)				3500.01							
100	PI2 BPSK	1	1		20.38		21.5	0.0			
100	PI2 BPSK	1	137		20.37						
100	PI2 BPSK	1	271		20.32						
100	PI2 BPSK	135	0		20.26						
100	PI2 BPSK	135	69		20.39		21.5	0.0			
100	PI2 BPSK	135	138		20.31		21.5	0.0			
100	PI2 BPSK	270	0		20.36						
100	QPSK	1	1		20.44		21.5	0.0			
100	QPSK	1	137		20.30						
100	QPSK	1	271		20.22		21.5	0.0			
100	QPSK	135	0		20.34						
100	QPSK	135	69		20.40						
100	QPSK	135	138		20.28						
100	QPSK	270	0		20.33		21.5	0.0			
100	16QAM	1	1		20.19		21.5	0.0			
100	64QAM	1	1		19.96		21.5	0.0			
100	256QAM	1	1		18.44		19.5	2.0			
Channel				633000	633334	633668	Tune-up limit (dBm)				
Frequency (MHz)				3495	3500.01	3505.02	MPR (dB)				
90	QPSK	1	1	20.27	20.36	20.24	21.5	0.0			
Channel				632668	633334	634000	Tune-up limit (dBm)				
Frequency (MHz)				3490.02	3500.01	3510	MPR (dB)				
80	QPSK	1	1	20.32	20.30	20.27	21.5	0.0			
Channel				632334	633334	634334	Tune-up limit (dBm)				
Frequency (MHz)				3485.01	3500.01	3515.01	MPR (dB)				
70	QPSK	1	1	20.27	20.31	20.23	21.5	0.0			
Channel				632000	633334	634668	Tune-up limit (dBm)				
Frequency (MHz)				3480	3500.01	3520.02	MPR (dB)				
60	QPSK	1	1	20.32	20.41	20.23	21.5	0.0			
Channel				631668	633334	635000	Tune-up limit (dBm)				
Frequency (MHz)				3475.02	3500.01	3525	MPR (dB)				
50	QPSK	1	1	20.29	20.39	20.28	21.5	0.0			
Channel				631334	633334	635334	Tune-up limit (dBm)				
Frequency (MHz)				3470.01	3500.01	3530.01	MPR (dB)				
40	QPSK	1	1	20.24	20.34	20.18	21.5	0.0			
Channel				631000	633334	635668	Tune-up limit (dBm)				
Frequency (MHz)				3465	3500.01	3535.02	MPR (dB)				
30	QPSK	1	1	20.27	20.37	20.20	21.5	0.0			
Channel				630668	633334	635934	Tune-up limit (dBm)				
Frequency (MHz)				3462.51	3500.01	3537.51	MPR (dB)				
25	QPSK	1	1	20.30	20.35	20.30	21.5	0.0			
Channel				630668	633334	636000	Tune-up limit (dBm)				
Frequency (MHz)				3460.02	3500.01	3540	MPR (dB)				
20	QPSK	1	1	20.31	20.33	20.20	21.5	0.0			
Channel				630500	633334	636188	Tune-up limit (dBm)				
Frequency (MHz)				3457.5	3500.01	3542.52	MPR (dB)				
15	QPSK	1	1	20.33	20.39	20.30	21.5	0.0			
Channel				630334	633334	636334	Tune-up limit (dBm)				
Frequency (MHz)				3455.01	3500.01	3545.01	MPR (dB)				
10	QPSK	1	1	20.30	20.40	20.29	21.5	0.0			



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				374000	376000	378000	17.0	0.0	
Frequency (MHz)				1870	1880	1890			
40	PI2 BPSK	1	1	16.24	16.29	16.20			
40	PI2 BPSK	1	108	16.15	16.22	16.10	17.0	0.0	
40	PI2 BPSK	1	214	16.03	16.17	16.05			
40	PI2 BPSK	108	0	16.21	16.26	16.17			
40	PI2 BPSK	108	54	16.20	16.25	16.21	17.0	0.0	
40	PI2 BPSK	108	108	16.06	16.19	16.12	17.0	0.0	
40	PI2 BPSK	216	0	16.11	16.25	16.17			
40	QPSK	1	1	16.21	16.25	16.30			
40	QPSK	1	108	16.13	16.23	16.16	17.0	0.0	
40	QPSK	1	214	16.11	16.25	16.13			
40	QPSK	108	0	16.12	16.22	16.15			
40	QPSK	108	54	16.21	16.29	16.23	17.0	0.0	
40	QPSK	108	108	16.12	16.19	16.13	17.0	0.0	
40	QPSK	216	0	16.14	16.25	16.12			
40	16QAM	1	1	16.13	16.22	16.11	17.0	0.0	
40	64QAM	1	1	15.98	16.12	16.02	17.0	0.0	
40	256QAM	1	1	16.04	16.19	16.10	17.0	0.0	
Channel				373000	376000	379000	17.0	MPR	
Frequency (MHz)				1865	1880	1895			
30	QPSK	1	1	16.16	16.26	16.14		0.0	
Channel				372500	376000	379500	17.0	MPR	
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	16.16	16.10	16.17		0.0	
Channel				372000	376000	380000	17.0	MPR	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	16.12	16.34	16.11	17.0	0.0	
Channel				371500	376000	380500	17.0	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	16.14	16.26	16.29	17.0	0.0	
Channel				371000	376000	381000	17.0	MPR	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	16.16	16.32	16.13	17.0	0.0	
Channel				370500	376000	381500	17.0	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	16.05	16.17	16.16	17.0	0.0	

Reduced Power Mode for ECI7									
n5 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168000	167300	167800	24.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.88	23.01	22.94			
20	PI2 BPSK	1	53	22.69	22.73	22.73	23.5	0.5	
20	PI2 BPSK	1	104	22.64	22.66	22.61			
20	PI2 BPSK	50	0	22.36	22.47	22.45			
20	PI2 BPSK	50	28	22.78	22.81	22.75	24.0	0.0	
20	PI2 BPSK	50	56	22.25	22.28	22.18	23.5	0.5	
20	PI2 BPSK	100	0	22.27	22.44	22.33			
20	QPSK	1	1	22.90	23.03	22.85			
20	QPSK	1	53	22.58	22.71	22.68	24.0	0.0	
20	QPSK	1	104	22.63	22.74	22.67			
20	QPSK	50	0	21.90	21.90	21.90	23.0	1.0	
20	QPSK	50	28	22.82	22.94	22.86	24.0	0.0	
20	QPSK	50	56	21.70	21.77	21.65	23.0	1.0	
20	QPSK	100	0	21.87	21.92	21.86			
20	16QAM	1	1	21.62	21.69	21.69	23.0	1.0	
20	64QAM	1	1	20.20	20.25	20.13	21.5	2.5	
20	256QAM	1	1	18.74	18.81	18.68	19.5	4.5	
Channel				166300	167300	168300	24.0	MPR	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.85	22.91	22.79	24.0	0.0	
Channel				165800	167300	168800	24.0	MPR	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.75	22.84	22.73	24.0	0.0	
Channel				165300	167300	169300	24.0	MPR	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.81	22.95	22.73	24.0	0.0	

n7 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				500000	507000	509000	19.0	0.0	
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	17.78	17.83	17.65			
50	PI2 BPSK	1	135	17.61	17.69	17.57	19.0	0.0	
50	PI2 BPSK	1	268	17.53	17.68	17.53			
50	PI2 BPSK	135	0	17.76	17.81	17.69			
50	PI2 BPSK	135	68	17.69	17.73	17.74	19.0	0.0	
50	PI2 BPSK	135	135	17.56	17.70	17.57	19.0	0.0	
50	PI2 BPSK	270	0	17.63	17.71	17.67			
50	QPSK	1	1	17.73	17.97	17.83			
50	QPSK	1	135	17.66	17.75	17.62	19.0	0.0	
50	QPSK	1	268	17.68	17.80	17.63			
50	QPSK	135	0	17.87	17.70	17.71	19.0	0.0	
50	QPSK	135	68	17.71	17.84	17.73	19.0	0.0	
50	QPSK	135	135	17.58	17.68	17.64	19.0	0.0	
50	QPSK	270	0	17.68	17.74	17.63			
50	16QAM	1	1	17.60	17.72	17.67	19.0	0.0	
50	64QAM	1	1	17.49	17.58	17.53	19.0	0.0	
50	256QAM	1	1	17.55	17.68	17.63	19.0	0.0	
Channel				504000	507000	510000	19.0	MPR	
Frequency (MHz)				2540	2535	2550			
40	QPSK	1	1	17.66	17.80	17.70	19.0	0.0	
Channel				503000	507000	511000	19.0	MPR	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	17.67	17.76	17.70	19.0	0.0	
Channel				502000	507000	511500	19.0	MPR	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	17.58	17.73	17.79	19.0	0.0	
Channel				502000	507000	512000	19.0	MPR	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	17.64	17.74	17.70	19.0	0.0	
Channel				501500	507000	512500	19.0	MPR	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	17.59	17.72	17.68	19.0	0.0	
Channel				501000	507000	513000	19.0	MPR	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	17.58	17.78	17.70	19.0	0.0	
Channel				500500	507000	513500	19.0	MPR	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	17.68	17.81	17.72	19.0	0.0	



n12 Ant0 Default

BW [MHz]	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	22.81	22.96	22.97		
15	PI/2 BPSK	1	40	22.95	22.98	22.77	24.0	0.0
15	PI/2 BPSK	1	77	22.69	22.75	22.72		
15	PI/2 BPSK	36	0	22.37	22.45	22.32	23.5	0.5
15	PI/2 BPSK	36	22	22.70	22.82	22.67	24.0	0.0
15	PI/2 BPSK	36	43	21.99	22.05	21.94	23.5	0.5
15	PI/2 BPSK	75	0	22.22	22.36	22.18		
15	QPSK	1	1	22.95	23.07	22.81		
15	QPSK	1	40	22.72	22.97	22.84	24.0	0.0
15	QPSK	1	77	22.71	22.83	22.88		
15	QPSK	36	0	21.82	22.07	21.98	23.0	1.0
15	QPSK	36	22	22.62	22.89	22.64	24.0	0.0
15	QPSK	36	43	21.69	21.65	21.52	23.0	1.0
15	QPSK	75	0	21.72	21.77	21.66		
15	16QAM	1	1	21.75	21.78	21.72	23.0	1.0
15	64QAM	1	1	20.08	20.20	20.25	21.5	2.5
15	256QAM	1	1	18.75	18.99	18.76	19.5	4.5
Channel				140900	141500	142100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.78	22.87	22.69	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	22.74	22.87	22.63	24.0	0.0

n14 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158600				
Frequency (MHz)				793				
10	PI/2 BPSK	1	1		23.12			
10	PI/2 BPSK	1	26		23.05		24.0	0.0
10	PI/2 BPSK	1	50		22.84			
10	PI/2 BPSK	25	0		22.67		23.5	0.5
10	PI/2 BPSK	25	14		23.01		24.0	0.0
10	PI/2 BPSK	25	27		22.81		23.5	0.5
10	PI/2 BPSK	50	0		22.65			
10	QPSK	1	1		23.33			
10	QPSK	1	26		23.12		24.0	0.0
10	QPSK	1	50		23.04			
10	QPSK	25	0		22.23		23.0	1.0
10	QPSK	25	14		23.29		24.0	0.0
10	QPSK	25	27		22.20		23.0	1.0
10	QPSK	50	0		22.29			
10	16QAM	1	1		21.88		23.0	1.0
10	64QAM	1	1		20.53		21.5	2.5
10	256QAM	1	1		19.10		19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	796.5		
5	QPSK	1	1	23.23	23.30	23.26	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				374000	376500	379000		
Frequency (MHz)				1870	1882.5	1895		
40	PI/2 BPSK	1	1	16.30	16.39	16.36		
40	PI/2 BPSK	1	108	16.26	16.32	16.20	17.0	0.0
40	PI/2 BPSK	1	214	16.12	16.22	16.18		
40	PI/2 BPSK	108	0	16.31	16.35	16.28	17.0	0.0
40	PI/2 BPSK	108	54	16.26	16.40	16.35	17.0	0.0
40	PI/2 BPSK	108	108	16.18	16.34	16.22	17.0	0.0
40	PI/2 BPSK	216	0	16.26	16.37	16.28		
40	QPSK	1	1	16.33	16.45	16.41		
40	QPSK	1	108	16.27	16.29	16.33	17.0	0.0
40	QPSK	1	214	16.24	16.33	16.34		
40	QPSK	108	0	16.26	16.32	16.29	17.0	0.0
40	QPSK	108	54	16.35	16.39	16.38	17.0	0.0
40	QPSK	108	108	16.24	16.29	16.20	17.0	0.0
40	QPSK	216	0	16.23	16.31	16.20		
40	16QAM	1	1	16.19	16.35	16.22	17.0	0.0
40	64QAM	1	1	16.11	16.25	16.11	17.0	0.0
40	256QAM	1	1	16.10	16.31	16.25	17.0	0.0
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	16.22	16.35	16.34	17.0	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1902.5		
25	QPSK	1	1	16.36	16.34	16.29	17.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	16.23	16.40	16.29	17.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	16.29	16.34	16.32	17.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	16.21	16.30	16.35	17.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	16.27	16.42	16.38	17.0	0.0



n26 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				168000	169300	167600	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.99	23.09	23.04		
20	PI2 BPSK	1	53	22.80	22.94	22.75	23.5	0.5
20	PI2 BPSK	1	104	22.75	22.76	22.63		
20	PI2 BPSK	50	0	22.51	22.62	22.55		
20	PI2 BPSK	50	26	22.93	22.98	22.96	24.0	0.0
20	PI2 BPSK	50	56	22.26	22.41	22.26	23.5	0.5
20	PI2 BPSK	100	0	22.38	22.49	22.35		
20	QPSK	1	1	23.07	23.10	23.05		
20	QPSK	1	53	22.79	22.91	22.84	24.0	0.0
20	QPSK	1	104	22.73	22.78	22.68		
20	QPSK	50	0	22.01	22.12	22.11		
20	QPSK	50	28	22.95	23.00	22.82	24.0	0.0
20	QPSK	50	56	21.82	21.87	21.70	23.0	1.0
20	QPSK	100	0	21.51	21.54	21.46		
20	16QAM	1	1	21.78	21.86	21.80		
20	64QAM	1	1	20.31	20.48	20.42	21.5	2.5
20	256QAM	1	1	19.05	19.02	19.00	19.5	4.5
Channel				164200	165300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.99	23.02	22.94	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844	24.0	0.0
10	QPSK	1	1	23.01	23.08	23.00	24.0	0.0
Channel				163100	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	22.92	23.04	22.92	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				148000	149200	148000	18.0	0.0
Frequency (MHz)				2310	2310	2310		
10	PI2 BPSK	1	1	17.52	17.47	17.52		
10	PI2 BPSK	1	26	17.47	17.47	17.47	18.0	0.0
10	PI2 BPSK	1	50	17.43	17.36	17.36		
10	PI2 BPSK	25	0	17.36	17.36	17.36		
10	PI2 BPSK	25	14	17.47	17.47	17.47	18.0	0.0
10	PI2 BPSK	25	27	17.39	17.44	17.39		
10	PI2 BPSK	50	0	17.44	17.44	17.44		
10	QPSK	1	1	17.57	17.53	17.53	18.0	0.0
10	QPSK	1	26	17.53	17.53	17.53		
10	QPSK	1	50	17.41	17.41	17.41		
10	QPSK	25	0	17.45	17.51	17.45	18.0	0.0
10	QPSK	25	14	17.51	17.51	17.51		
10	QPSK	25	27	17.41	17.41	17.41		
10	QPSK	50	0	17.46	17.46	17.46	18.0	0.0
10	16QAM	1	1	17.38	17.38	17.38		
10	64QAM	1	1	17.33	17.33	17.33		
10	256QAM	1	1	17.30	17.30	17.30	18.0	0.0
Channel				481800	482000	482500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5	18.0	0.0
5	QPSK	1	1	17.39	17.49	17.44	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				346000	349000	352000	18.5	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	17.75	17.82	17.69		
40	PI2 BPSK	1	108	17.60	17.70	17.65	18.5	0.0
40	PI2 BPSK	1	214	17.58	17.64	17.58		
40	PI2 BPSK	108	0	17.61	17.73	17.60		
40	PI2 BPSK	108	54	17.57	17.72	17.69	18.5	0.0
40	PI2 BPSK	108	108	17.57	17.67	17.61		
40	PI2 BPSK	216	0	17.65	17.76	17.63		
40	QPSK	1	1	17.77	17.84	17.74	18.5	0.0
40	QPSK	1	108	17.70	17.83	17.70		
40	QPSK	1	214	17.68	17.76	17.68		
40	QPSK	108	0	17.60	17.67	17.55	18.5	0.0
40	QPSK	108	54	17.70	17.79	17.74		
40	QPSK	108	108	17.54	17.63	17.59		
40	QPSK	216	0	17.60	17.67	17.59	18.5	0.0
40	16QAM	1	1	17.51	17.64	17.51		
40	64QAM	1	1	17.54	17.60	17.54		
40	256QAM	1	1	17.42	17.55	17.51	18.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	18.5	0.0
30	QPSK	1	1	17.70	17.81	17.63	18.5	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5	18.5	0.0
25	QPSK	1	1	17.72	17.75	17.61	18.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	18.5	0.0
20	QPSK	1	1	17.67	17.73	17.71	18.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	18.5	0.0
15	QPSK	1	1	17.67	17.76	17.67	18.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	18.5	0.0
10	QPSK	1	1	17.74	17.71	17.62	18.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	18.5	0.0
5	QPSK	1	1	17.62	17.72	17.67	18.5	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				340500			19.0	0.0
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1		18.32		19.0	0.0
15	PI2 BPSK	1	40		18.28			
15	PI2 BPSK	1	77		18.23			
15	PI2 BPSK	36	0		18.17		19.0	0.0
15	PI2 BPSK	36	22		18.29		19.0	0.0
15	PI2 BPSK	36	43		18.21		19.0	0.0
15	PI2 BPSK	75	0		18.26			
15	QPSK	1	1		18.37			
15	QPSK	1	40		18.26		19.0	0.0
15	QPSK	1	77		18.27			
15	QPSK	36	0		18.17			
15	QPSK	36	22		18.32		19.0	0.0
15	QPSK	36	43		18.15		19.0	0.0
15	QPSK	75	0		18.23			
15	16QAM	1	1		18.23			
15	64QAM	1	1		18.13		19.0	0.0
15	256QAM	1	1		18.12		19.0	0.0
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	18.24	18.29	18.17	19.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	18.26	18.31	18.22	19.0	0.0

n71 Ant0 Default								
BW [MHz]	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	24.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.10	23.20	23.01	24.0	0.0
20	PI/2 BPSK	1	53	22.95	23.19	23.16		
20	PI/2 BPSK	1	104	22.84	22.99	22.95		
20	PI/2 BPSK	50	0	22.79	22.86	22.86	23.5	0.5
20	PI/2 BPSK	50	28	22.95	23.02	22.90	24.0	0.0
20	PI/2 BPSK	50	56	22.82	22.78	22.86	23.5	0.5
20	PI/2 BPSK	100	0	22.70	22.80	22.68		
20	QPSK	1	1	23.14	23.25	22.96		
20	QPSK	1	53	23.13	23.21	22.91	24.0	0.0
20	QPSK	1	104	23.08	23.00	23.05		
20	QPSK	50	0	22.19	22.25	22.18		
20	QPSK	50	28	22.99	23.21	22.82	23.0	1.0
20	QPSK	50	56	22.14	22.11	22.23	23.0	1.0
20	QPSK	100	0	22.12	22.17	22.15		
20	16QAM	1	1	21.67	21.95	21.77		
20	64QAM	1	1	20.31	20.36	20.44	21.5	2.5
20	256QAM	1	1	18.67	18.56	18.57	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.04	23.05	22.88	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.90	23.20	22.78	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.10	23.19	22.85	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				516004	519000	519996	18.5	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	17.35	17.39	17.31	18.5	0.0
40	PI/2 BPSK	1	53	17.31	17.37	17.29		
40	PI/2 BPSK	1	104	17.26	17.31	17.27	18.5	0.0
40	PI/2 BPSK	50	0	17.19	17.26	17.20		
40	PI/2 BPSK	50	28	17.31	17.35	17.29	18.5	0.0
40	PI/2 BPSK	50	56	17.09	17.22	17.13		
40	PI/2 BPSK	100	0	17.22	17.29	17.18	18.5	0.0
40	QPSK	1	1	17.36	17.43	17.31		
40	QPSK	1	53	17.26	17.38	17.23	18.5	0.0
40	QPSK	1	104	17.28	17.39	17.35		
40	QPSK	50	0	17.20	17.23	17.17	18.5	0.0
40	QPSK	50	28	17.28	17.38	17.30		
40	QPSK	80	56	17.16	17.27	17.23	18.5	0.0
40	QPSK	100	0	17.30	17.34	17.23		
40	16QAM	1	1	17.15	17.22	17.11	18.5	0.0
40	64QAM	1	1	17.10	17.19	17.07		
40	256QAM	1	1	17.12	17.18	17.14	18.5	0.0
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99	18.5	0.0
30	QPSK	1	1	17.26	17.28	17.23		
Channel				516504	519000	521496	18.5	MPR
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	17.31	17.30	17.22	18.5	0.0
Channel				516000	519000	520000		
Frequency (MHz)				2580	2595	2610	18.5	0.0
20	QPSK	1	1	17.25	17.35	17.20		
Channel				515502	519000	522498	18.5	MPR
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	17.24	17.39	17.18	18.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98	18.5	0.0
10	QPSK	1	1	17.24	17.29	17.22		

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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				506002	518998	520000	18.5	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.33	17.39	17.30	18.5	0.0
100	PI/2 BPSK	1	137	17.26	17.29	17.23		
100	PI/2 BPSK	1	271	17.22	17.25	17.20	18.5	0.0
100	PI/2 BPSK	135	0	17.10	17.21	17.15		
100	PI/2 BPSK	135	69	17.20	17.32	17.16	18.5	0.0
100	PI/2 BPSK	135	138	16.96	17.12	17.02		
100	PI/2 BPSK	270	0	17.20	17.28	17.10	18.5	0.0
100	QPSK	1	1	17.36	17.44	17.32		
100	QPSK	1	137	17.23	17.37	17.30	18.5	0.0
100	QPSK	1	271	17.15	17.28	17.28		
100	QPSK	135	0	17.13	17.21	17.18	18.5	0.0
100	QPSK	135	69	17.20	17.39	17.26		
100	QPSK	135	138	17.14	17.24	17.23	18.5	0.0
100	QPSK	270	0	17.20	17.35	17.08		
100	16QAM	1	1	17.16	17.08	16.97	18.5	0.0
100	64QAM	1	1	17.07	17.14	16.96		
100	256QAM	1	1	16.99	17.12	17.05	18.5	0.0
Channel				506000	518998	520998		
Frequency (MHz)				2541	2592.99	2644.98	18.5	0.0
90	QPSK	1	1	17.33	17.41	17.27		
Channel				507204	518998	520998	18.5	MPR
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	17.33	17.24	17.25	18.5	0.0
Channel				506002	518998	520000		
Frequency (MHz)				2531.01	2592.99	2655	18.5	0.0
70	QPSK	1	1	17.30	17.31	17.26		
Channel				505200	518998	521998	18.5	MPR
Frequency (MHz)				2524	2592.99	2659.98		
60	QPSK	1	1	17.33	17.36	17.24	18.5	0.0
Channel				504204	518998	522998		
Frequency (MHz)				2521.02	2592.99	2664.99	18.5	0.0
50	QPSK	1	1	17.26	17.33	17.25		
Channel				503202	518998	523000	18.5	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.24	17.29	17.27	18.5	0.0
Channel				502200	518998	524998		
Frequency (MHz)				2511	2592.99	2674.99	18.5	0.0
30	QPSK	1	1	17.25	17.30	17.19		
Channel				501204	518998	525998	18.5	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.27	17.39	17.18	18.5	0.0
Channel				500700	518998	526498		
Frequency (MHz)				2493.15	2592.99	2683.48	18.5	0.0
15	QPSK	1	1	17.28	17.36	17.26		
Channel				500202	518998	527000	18.5	MPR
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.29	17.35	17.24	18.5	0.0



n2 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				374500	376000	379500		
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	16.32	16.37	16.26	17.5	0.0
40	PI2 BPSK	1	108	16.24	16.33	16.23		
40	PI2 BPSK	1	214	16.15	16.26	16.16	17.5	0.0
40	PI2 BPSK	108	0	16.22	16.26	16.11		
40	PI2 BPSK	108	54	16.28	16.35	16.21	17.5	0.0
40	PI2 BPSK	108	108	16.13	16.27	16.22	17.5	0.0
40	PI2 BPSK	216	0	16.20	16.34	16.25	17.5	0.0
40	QPSK	1	1	16.35	16.41	16.30		
40	QPSK	1	108	16.25	16.38	16.27	17.5	0.0
40	QPSK	1	214	16.21	16.29	16.25		
40	QPSK	108	0	16.28	16.32	16.22	17.5	0.0
40	QPSK	108	54	16.31	16.36	16.29	17.5	0.0
40	QPSK	108	108	16.24	16.26	16.16	17.5	0.0
40	QPSK	216	0	16.18	16.31	16.24		
40	16QAM	1	1	16.18	16.21	16.12	17.5	0.0
40	64QAM	1	1	16.14	16.22	16.17	17.5	0.0
40	256QAM	1	1	16.11	16.19	16.15	17.5	0.0
Channel				372000	376000	379500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1880	1895		
30	QPSK	1	1	16.31	16.28	16.24	17.5	0.0
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1872.5	1890	1897.5		
25	QPSK	1	1	16.30	16.21	16.20	17.5	0.0
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	1	16.22	16.28	16.20	17.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1880	1892.5		
15	QPSK	1	1	16.31	16.37	16.20	17.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	16.18	16.23	16.20	17.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	16.19	16.25	16.14	17.5	0.0

n5 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				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	21.82	21.88	21.84	23.0	0.0
20	PI2 BPSK	1	53	21.70	21.80	21.67		
20	PI2 BPSK	1	104	21.65	21.79	21.75	23.0	0.0
20	PI2 BPSK	50	0	21.63	21.78	21.66		
20	PI2 BPSK	50	28	21.76	21.85	21.76	23.0	0.0
20	PI2 BPSK	50	56	21.69	21.73	21.64	23.0	0.0
20	PI2 BPSK	100	0	21.75	21.78	21.72	23.0	0.0
20	QPSK	1	1	21.85	21.92	21.80		
20	QPSK	1	53	21.78	21.83	21.80	23.0	0.0
20	QPSK	1	104	21.80	21.83	21.70		
20	QPSK	50	0	21.66	21.75	21.72	23.0	0.0
20	QPSK	50	28	21.76	21.89	21.80	23.0	0.0
20	QPSK	50	56	21.58	21.80	21.64	23.0	0.0
20	QPSK	100	0	21.75	21.84	21.79		
20	16QAM	1	1	21.75	21.78	21.62	23.0	0.0
20	64QAM	1	1	20.18	20.38	20.29	21.5	1.5
20	256QAM	1	1	18.65	18.69	18.56	19.5	3.5
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	21.81	21.85	21.67	23.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				820	836.5	844		
10	QPSK	1	1	21.78	21.89	21.75	23.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	21.77	21.79	21.76	23.0	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	13.97	14.01	13.92	14.5	0.0
50	PI2 BPSK	1	135	13.83	13.96	13.84		
50	PI2 BPSK	1	268	13.81	13.90	13.76	14.5	0.0
50	PI2 BPSK	135	0	13.77	13.85	13.75		
50	PI2 BPSK	135	68	13.83	13.92	13.80	14.5	0.0
50	PI2 BPSK	135	135	13.73	13.87	13.74	14.5	0.0
50	PI2 BPSK	270	0	13.75	13.88	13.75	14.5	0.0
50	QPSK	1	1	13.98	14.06	13.96		
50	QPSK	1	135	13.85	14.02	13.97	14.5	0.0
50	QPSK	1	268	13.89	13.98	13.86		
50	QPSK	135	0	13.87	13.93	13.86	14.5	0.0
50	QPSK	135	68	13.96	14.02	13.92	14.5	0.0
50	QPSK	135	135	13.83	13.89	13.74	14.5	0.0
50	QPSK	270	0	13.87	13.94	13.82		
50	16QAM	1	1	13.70	13.82	13.73	14.5	0.0
50	64QAM	1	1	13.70	13.79	13.72	14.5	0.0
50	256QAM	1	1	13.67	13.75	13.64	14.5	0.0
Channel				504500	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	13.93	13.95	13.81	14.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	13.89	13.97	13.82	14.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	13.86	13.94	13.91	14.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	13.86	14.01	13.83	14.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	13.81	13.92	13.89	14.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	13.80	14.02	13.89	14.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	13.81	13.95	13.86	14.5	0.0



n12 Ant1 Default

BW [MHz]	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	PV2 BPSK	1	1	23.10	23.07	23.10	24.0	0.0
15	PV2 BPSK	1	40	22.92	22.85	22.87		
15	PV2 BPSK	1	77	22.38	22.55	22.59		
15	PV2 BPSK	36	0	22.83	22.83	22.89	23.5	0.5
15	PV2 BPSK	36	22	23.06	22.94	22.91	24.0	0.0
15	PV2 BPSK	36	43	22.29	22.34	22.19	23.5	0.5
15	PV2 BPSK	75	0	22.32	22.48	22.46	24.0	0.0
15	QPSK	1	1	23.12	23.17	23.00		
15	QPSK	1	40	22.77	22.88	22.91		
15	QPSK	1	77	22.48	22.54	22.29	23.0	1.0
15	QPSK	36	0	22.16	22.11	22.13		
15	QPSK	36	22	22.88	23.07	23.02		
15	QPSK	36	43	21.94	22.06	22.01	23.0	1.0
15	QPSK	75	0	22.14	22.27	22.02	23.0	1.0
15	16QAM	1	1	21.93	21.86	21.77		
15	64QAM	1	1	20.32	20.61	20.47		
15	256QAM	1	1	18.85	18.84	18.80	19.5	4.5
Channel				142000	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	23.00	23.03	22.88	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	23.01	23.00	22.78	24.0	0.0

n14 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158600				
Frequency (MHz)				793				
10	PV2 BPSK	1	1		22.90		24.0	0.0
10	PV2 BPSK	1	26		22.88			
10	PV2 BPSK	1	50		22.87			
10	PV2 BPSK	25	0		22.33		23.5	0.5
10	PV2 BPSK	25	14		22.82		24.0	0.0
10	PV2 BPSK	25	27		22.37		23.5	0.5
10	PV2 BPSK	50	0		22.34		24.0	0.0
10	QPSK	1	1		22.94			
10	QPSK	1	26		22.90			
10	QPSK	1	50		22.88		23.0	1.0
10	QPSK	25	0		21.80			
10	QPSK	25	14		22.85			
10	QPSK	25	27		21.84		23.0	1.0
10	QPSK	50	0		21.90		23.0	1.0
10	16QAM	1	1		21.60			
10	64QAM	1	1		20.03			
10	256QAM	1	1		18.30		19.5	4.5
Channel				158100	158300	158100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.70	22.79	22.66	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				374500	376500	378500		
Frequency (MHz)				1870	1882.5	1895		
40	PV2 BPSK	1	1	16.47	16.51	16.42	17.5	0.0
40	PV2 BPSK	1	108	16.31	16.40	16.29		
40	PV2 BPSK	1	214	16.20	16.41	16.34		
40	PV2 BPSK	108	0	16.38	16.43	16.24	17.5	0.0
40	PV2 BPSK	108	54	16.34	16.41	16.30	17.5	0.0
40	PV2 BPSK	108	108	16.22	16.40	16.29	17.5	0.0
40	PV2 BPSK	216	0	16.28	16.40	16.34	17.5	0.0
40	QPSK	1	1	16.32	16.57	16.48		
40	QPSK	1	108	16.34	16.51	16.38		
40	QPSK	1	214	16.30	16.42	16.41	17.5	0.0
40	QPSK	108	0	16.41	16.43	16.34		
40	QPSK	108	54	16.47	16.50	16.38		
40	QPSK	108	108	16.35	16.40	16.32	17.5	0.0
40	QPSK	216	0	16.24	16.45	16.40	17.5	0.0
40	16QAM	1	1	16.25	16.26	16.19		
40	64QAM	1	1	16.30	16.32	16.26		
40	256QAM	1	1	16.23	16.35	16.24	17.5	0.0
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	16.41	16.53	16.44	17.5	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1822.5	1882.5	1902.5		
25	QPSK	1	1	16.45	16.48	16.41	17.5	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	16.49	16.51	16.35	17.5	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1817.5	1882.5	1907.5		
15	QPSK	1	1	16.38	16.49	16.39	17.5	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	16.44	16.50	16.39	17.5	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	16.49	16.44	16.35	17.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166500	166300	167600		
Frequency (MHz)				824	831.5	839		
20	PV2 BPSK	1	1	21.95	21.99	21.92	23.0	0.0
20	PV2 BPSK	1	53	21.76	21.98	21.75		
20	PV2 BPSK	1	104	21.81	21.98	21.88		
20	PV2 BPSK	50	0	21.75	21.91	21.80	23.0	0.0
20	PV2 BPSK	50	28	21.87	21.95	21.88	23.0	0.0
20	PV2 BPSK	50	56	21.86	21.80	21.71	23.0	0.0
20	PV2 BPSK	100	0	21.87	21.88	21.84	23.0	0.0
20	QPSK	1	1	21.93	22.04	21.89		
20	QPSK	1	53	21.92	21.93	21.97		
20	QPSK	1	104	21.94	21.97	21.76	23.0	0.0
20	QPSK	50	0	21.74	21.89	21.83		
20	QPSK	50	28	21.90	21.98	21.96		
20	QPSK	50	56	21.82	21.91	21.81	23.0	0.0
20	QPSK	100	0	21.80	21.83	21.81	23.0	0.0
20	16QAM	1	1	21.82	21.80	21.90		
20	64QAM	1	1	20.40	20.32	20.27		
20	256QAM	1	1	18.43	18.48	18.37	19.5	3.5
Channel				164350	163300	163300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	21.84	21.84	21.83	23.0	0.0
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	841		
10	QPSK	1	1	21.87	21.97	21.85	23.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	21.82	21.91	21.75	23.0	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				164000	162000			
Frequency (MHz)					2310			
10	PV2 BPSK	1	1		15.42		16.0	0.0
10	PV2 BPSK	1	26		15.33			
10	PV2 BPSK	1	50		15.29			
10	PV2 BPSK	25	0		15.30		16.0	0.0
10	PV2 BPSK	25	14		15.40		16.0	0.0
10	PV2 BPSK	25	27		15.21		16.0	0.0
10	PV2 BPSK	50	0		15.36		16.0	0.0
10	QPSK	1	1		15.44			
10	QPSK	1	26		15.42			
10	QPSK	1	50		15.33		16.0	0.0
10	QPSK	25	0		15.29			
10	QPSK	25	14		15.38			
10	QPSK	25	27		15.27		16.0	0.0
10	QPSK	50	0		15.31		16.0	0.0
10	16QAM	1	1		15.30			
10	64QAM	1	1		15.28			
10	256QAM	1	1		15.17		16.0	0.0
Channel				461600	462000	462900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	15.27	15.35	15.34	16.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				349000	349000	350500		
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	17.35	17.38	17.32	18.0	0.0
40	PV2 BPSK	1	108	17.22	17.36	17.23		
40	PV2 BPSK	1	214	17.18	17.23	17.17		
40	PV2 BPSK	108	0	17.21	17.32	17.28	18.0	0.0
40	PV2 BPSK	108	54	17.21	17.35	17.29	18.0	0.0
40	PV2 BPSK	108	108	17.16	17.28	17.21	18.0	0.0
40	PV2 BPSK	216	0	17.22	17.32	17.19	18.0	0.0
40	QPSK	1	1	17.32	17.44	17.37		
40	QPSK	1	108	17.25	17.37	17.25		
40	QPSK	1	214	17.19	17.32	17.25	18.0	0.0
40	QPSK	108	0	17.21	17.31	17.20		
40	QPSK	108	54	17.22	17.38	17.33		
40	QPSK	108	108	17.16	17.31	17.19	18.0	0.0
40	QPSK	216	0	17.18	17.28	17.16	18.0	0.0
40	16QAM	1	1	17.14	17.27	17.12		
40	64QAM	1	1	17.11	17.22	17.18		
40	256QAM	1	1	17.18	17.23	17.11	18.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	17.28	17.30	17.32	18.0	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	17.20	17.22	17.23	18.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	17.26	17.40	17.29	18.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1721.5	1745	1772.5		
15	QPSK	1	1	17.23	17.30	17.28	18.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	17.21	17.27	17.24	18.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	17.27	17.35	17.33	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				340500			20.0	0.0	
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1		19.28		20.0	0.0	
15	PI/2 BPSK	1	40		19.23				
15	PI/2 BPSK	1	77		19.19				
15	PI/2 BPSK	36	0		19.16				
15	PI/2 BPSK	36	22		19.26		20.0	0.0	
15	PI/2 BPSK	36	43		19.13		20.0	0.0	
15	PI/2 BPSK	75	0		19.21		20.0	0.0	
15	QPSK	1	1		19.32				
15	QPSK	1	40		19.23				
15	QPSK	1	77		19.19				
15	QPSK	36	0		19.24		20.0	0.0	
15	QPSK	36	22		19.28		20.0	0.0	
15	QPSK	36	43		19.13		20.0	0.0	
15	QPSK	75	0		19.21		20.0	0.0	
15	16QAM	1	1		19.15				
15	64QAM	1	1		19.18				
15	256QAM	1	1		18.64				
Channel				340300	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705	20.0	0.0	
10	QPSK	1	1	19.11	19.24	19.20	20.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5	20.0	0.0	
5	QPSK	1	1	19.07	19.27	19.19	20.0	0.0	

n71 Ant1 Default									
BW [MHz]	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			24.0	0.0	
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	22.96	23.12	23.09	24.0	0.0	
20	PI/2 BPSK	1	53	22.98	22.87	22.75			
20	PI/2 BPSK	1	104	22.91	22.98	22.78			
20	PI/2 BPSK	50	0	22.88	22.74	22.84			
20	PI/2 BPSK	50	28	22.70	22.93	22.83	24.0	0.0	
20	PI/2 BPSK	50	56	22.29	22.60	22.56	23.5	0.5	
20	PI/2 BPSK	100	0	22.63	22.55	22.41	24.0	0.0	
20	QPSK	1	1	23.05	23.16	23.08			
20	QPSK	1	53	22.73	22.92	22.88			
20	QPSK	1	104	23.00	22.90	22.90			
20	QPSK	50	0	21.95	22.18	22.05	23.0	1.0	
20	QPSK	50	28	23.01	23.03	22.90	24.0	0.0	
20	QPSK	50	56	21.92	21.97	21.99	23.0	1.0	
20	QPSK	100	0	21.97	22.15	22.12	23.0	1.0	
20	16QAM	1	1	21.84	21.71	21.65			
20	64QAM	1	1	20.14	20.33	20.11			
20	256QAM	1	1	18.55	18.64	18.57			
Channel				134100	137100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5	24.0	0.0	
15	QPSK	1	1	23.06	23.06	22.88	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693	24.0	0.0	
10	QPSK	1	1	22.84	23.00	22.93	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5	24.0	0.0	
5	QPSK	1	1	22.90	23.13	23.05	24.0	0.0	

n38 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				516004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	12.40	12.45	12.37	13.5	0.0
40	PI/2 BPSK	1	53	12.34	12.38	12.29		
40	PI/2 BPSK	1	104	12.31	12.39	12.28	13.5	0.0
40	PI/2 BPSK	50	0	12.19	12.33	12.22		
40	PI/2 BPSK	50	28	12.38	12.44	12.34	13.5	0.0
40	PI/2 BPSK	50	56	12.23	12.30	12.21		
40	PI/2 BPSK	100	0	12.30	12.38	12.29	13.5	0.0
40	QPSK	1	1	12.45	12.52	12.48		
40	QPSK	1	53	12.38	12.46	12.32	13.5	0.0
40	QPSK	1	104	12.35	12.44	12.41		
40	QPSK	50	0	12.27	12.38	12.31	13.5	0.0
40	QPSK	50	28	12.38	12.49	12.40		
40	QPSK	80	56	12.26	12.39	12.29	13.5	0.0
40	QPSK	100	0	12.31	12.44	12.38		
40	16QAM	1	1	12.35	12.39	12.25	13.5	0.0
40	64QAM	1	1	12.17	12.25	12.15		
40	256QAM	1	1	12.21	12.30	12.20	13.5	0.0
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	12.41	12.44	12.40		
Channel				516504	519000	521496		
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	12.39	12.39	12.44	13.5	0.0
Channel				516000	519000	520000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	12.35	12.41	12.38		
Channel				515502	519000	524998		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	12.35	12.44	12.34	13.5	0.0
Channel				515004	519000	529998		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	12.39	12.39	12.42		

n41 PC3&2 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				506202	518998	529000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	12.42	12.49	12.38	13.5	0.0
100	PI/2 BPSK	1	137	12.38	12.31	12.16		
100	PI/2 BPSK	1	271	12.25	12.33	12.11	13.5	0.0
100	PI/2 BPSK	135	0	12.13	12.30	12.14		
100	PI/2 BPSK	135	69	12.42	12.40	12.39	13.5	0.0
100	PI/2 BPSK	135	138	12.21	12.35	12.06		
100	PI/2 BPSK	270	0	12.27	12.34	12.13	13.5	0.0
100	QPSK	1	1	12.47	12.54	12.40		
100	QPSK	1	137	12.35	12.40	12.31	13.5	0.0
100	QPSK	1	271	12.31	12.30	12.40		
100	QPSK	135	0	12.19	12.33	12.25	13.5	0.0
100	QPSK	135	69	12.28	12.46	12.38		
100	QPSK	135	138	12.24	12.31	12.21	13.5	0.0
100	QPSK	270	0	12.25	12.41	12.34		
100	16QAM	1	1	12.34	12.27	12.23	13.5	0.0
100	64QAM	1	1	12.17	12.11	12.06		
100	256QAM	1	1	12.20	12.19	12.21	13.5	0.0
Channel				506200	518998	529000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	12.38	12.39	12.32		
Channel				507204	518998	529998		
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	12.32	12.43	12.34	13.5	0.0
Channel				506202	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	12.42	12.48	12.35		
Channel				505200	518998	531998		
Frequency (MHz)				2524	2592.99	2659.98		
60	QPSK	1	1	12.34	12.50	12.32	13.5	0.0
Channel				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	12.42	12.51	12.32		
Channel				503202	518998	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	12.33	12.47	12.31	13.5	0.0
Channel				502200	518998	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	12.35	12.45	12.32		
Channel				501204	518998	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	12.35	12.40	12.25	13.5	0.0
Channel				500700	518998	536498		
Frequency (MHz)				2501.5	2592.99	2684.48		
15	QPSK	1	1	12.35	12.48	12.37		
Channel				500202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	12.33	12.43	12.34	13.5	0.0



n41 PC3 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500200	518598	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.32	22.40	22.40	24.0	0.0	
100	PQ2 BPSK	1	137	22.22	22.32	22.26			
100	PQ2 BPSK	1	271	22.15	22.32	22.14	24.0	0.0	
100	PQ2 BPSK	135	0	22.24	22.31	22.21			
100	PQ2 BPSK	135	69	22.24	22.29	22.20	24.0	0.0	
100	PQ2 BPSK	135	138	22.17	22.31	22.12			
100	PQ2 BPSK	270	0	22.13	22.33	22.25	24.0	0.0	
100	QPSK	1	1	22.37	22.46	22.42			
100	QPSK	1	137	22.27	22.25	22.30	24.0	0.0	
100	QPSK	1	271	22.12	22.18	22.03			
100	QPSK	135	0	22.18	22.27	22.24	24.0	0.0	
100	QPSK	135	69	22.30	22.42	22.26			
100	QPSK	135	138	22.16	22.24	22.12	24.0	0.0	
100	QPSK	270	0	22.26	22.25	22.20			
100	16QAM	1	1	22.09	22.23	22.12	24.0	0.0	
100	64QAM	1	1	22.15	22.19	22.06		0.0	
100	256QAM	1	1	21.22	21.38	21.22	22.5	1.5	
Channel				500200	518598	530000	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.33	22.32	22.35	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.29	22.39	22.29	24.0	0.0	
Channel				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	22.29	22.36	22.36	24.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	22.26	22.38	22.37	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.26	22.34	22.39	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.31	22.34	22.34	24.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.11	22.22.00	2374.68	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.23	22.38	22.33	24.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.5	2592.99	2682.48	24.0	0.0	
15	QPSK	1	1	22.31	22.34	22.29	24.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	24.0	0.0	
10	QPSK	1	1	22.32	22.39	22.29	24.0	0.0	

n41 PC2 Ant2 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				500202	518598	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.67	22.75	22.72	24.0	0.0	
100	PQ2 BPSK	1	137	22.57	22.67	22.61			
100	PQ2 BPSK	1	271	22.50	22.67	22.49	24.0	0.0	
100	PQ2 BPSK	135	0	22.59	22.66	22.56			
100	PQ2 BPSK	135	69	22.59	22.64	22.55	24.0	0.0	
100	PQ2 BPSK	135	138	22.52	22.66	22.47			
100	PQ2 BPSK	270	0	22.48	22.68	22.60	24.0	0.0	
100	QPSK	1	1	22.72	22.83	22.77			
100	QPSK	1	137	22.62	22.64	22.65	24.0	0.0	
100	QPSK	1	271	22.47	22.53	22.38			
100	QPSK	135	0	22.53	22.62	22.59	24.0	0.0	
100	QPSK	135	69	22.65	22.82	22.61			
100	QPSK	135	138	22.53	22.59	22.47	24.0	0.0	
100	QPSK	270	0	22.61	22.64	22.55			
100	16QAM	1	1	22.44	22.58	22.47	24.0	0.0	
100	64QAM	1	1	22.50	22.54	22.41		0.0	
100	256QAM	1	1	21.57	21.73	21.57	22.5	1.5	
Channel				500200	518598	529996	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.68	22.67	22.70	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.61	22.74	22.63	24.0	0.0	
Channel				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	22.64	22.71	22.71	24.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	22.61	22.73	22.72	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.64	22.69	22.74	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.66	22.69	22.69	24.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.11	22.22.00	2374.68	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.58	22.73	22.68	24.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.5	2592.99	2682.48	24.0	0.0	
15	QPSK	1	1	22.66	22.69	22.64	24.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	24.0	0.0	
10	QPSK	1	1	22.67	22.74	22.64	24.0	0.0	

n48 Part96 Ant2 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				3600	3624.99	3649.98			
Frequency (MHz)				18.41	18.41	18.45			
100	PV2 BPSK	1	1	18.41	18.51	18.45	19.0	0.0	
100	PV2 BPSK	1	137	18.37	18.45	18.36			
100	PV2 BPSK	1	271	18.32	18.42	18.36	19.0	0.0	
100	PV2 BPSK	135	0	18.27	18.35	18.31			
100	PV2 BPSK	135	69	18.37	18.46	18.42	19.0	0.0	
100	PV2 BPSK	135	138	18.22	18.36	18.22			
100	PV2 BPSK	270	0	18.35	18.41	18.32	19.0	0.0	
100	QPSK	1	1	18.48	18.56	18.48			
100	QPSK	1	137	18.33	18.45	18.41	19.0	0.0	
100	QPSK	1	271	18.43	18.49	18.44			
100	QPSK	135	0	18.30	18.42	18.33	19.0	0.0	
100	QPSK	135	69	18.44	18.48	18.38			
100	QPSK	135	138	18.25	18.38	18.20	19.0	0.0	
100	QPSK	270	0	18.37	18.42	18.37			
100	16QAM	1	1	18.33	18.37	18.23	19.0	0.0	
100	64QAM	1	1	18.17	18.17	18.16			
100	256QAM	1	1	18.23	18.30	18.22	19.0	0.0	
Channel				369868	3641666	3643666			
Frequency (MHz)				3656.02	3624.99	3654.99			
90	QPSK	1	1	18.36	18.45	18.38	19.0	0.0	
Channel				363303	3616666	3643000			
Frequency (MHz)				3655.01	3624.99	3650			
80	QPSK	1	1	18.35	18.51	18.36	19.0	0.0	
Channel				369868	3641666	3646666			
Frequency (MHz)				3580.02	3624.99	3659.99			
60	QPSK	1	1	18.34	18.43	18.36	19.0	0.0	
Channel				369334	3616666	3643000			
Frequency (MHz)				3575.01	3624.99	3675			
50	QPSK	1	1	18.39	18.41	18.39	19.0	0.0	
Channel				63000	3641666	3643332			
Frequency (MHz)				3570.99	3624.99	3679.98			
40	QPSK	1	1	18.39	18.53	18.34	19.0	0.0	
Channel				376868	3616666	3645666			
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	18.34	18.48	18.36	19.0	0.0	
Channel				63000	3641666	364000			
Frequency (MHz)				3545.01	3624.99	3695			
20	QPSK	1	1	18.41	18.49	18.39	19.0	0.0	
Channel				367168	3641666	3641666			
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	18.34	18.44	18.42	19.0	0.0	
Channel				63700	3616666	3638332			
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	18.42	18.52	18.33	19.0	0.0	
Channel				367168	3641666	3641666			

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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				655000	655000	662000	18.5	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.56	17.62	17.51		
100	PI/2 BPSK	1	137	17.49	17.58	17.41	18.5	0.0
100	PI/2 BPSK	1	271	17.27	17.46	17.29		
100	PI/2 BPSK	135	0	17.45	17.44	17.41		
100	PI/2 BPSK	135	69	17.38	17.44	17.40	18.5	0.0
100	PI/2 BPSK	135	138	17.40	17.43	17.36	18.5	0.0
100	PI/2 BPSK	270	0	17.37	17.47	17.34	18.5	0.0
100	QPSK	1	1	17.63	17.68	17.53		
100	QPSK	1	137	17.46	17.48	17.38		
100	QPSK	1	271	17.47	17.57	17.40	18.5	0.0
100	QPSK	135	0	17.44	17.51	17.46		
100	QPSK	135	69	17.56	17.65	17.56		
100	QPSK	135	138	17.33	17.50	17.39	18.5	0.0
100	QPSK	270	0	17.51	17.54	17.49		
100	16QAM	1	1	17.40	17.54	17.42	18.5	0.0
100	64QAM	1	1	17.34	17.37	17.28	18.5	0.0
100	256QAM	1	1	17.22	17.35	17.27	18.5	0.0
Channel				63950	639200	638334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	18.5	0.0
90	QPSK	1	1	17.47	17.57	17.52	18.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	18.5	0.0
80	QPSK	1	1	17.45	17.61	17.56	18.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	18.5	0.0
70	QPSK	1	1	17.47	17.57	17.42	18.5	0.0
Channel				649668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3930.03	18.5	0.0
60	QPSK	1	1	17.59	17.51	17.46	18.5	0.0
Channel				649334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	18.5	0.0
50	QPSK	1	1	17.46	17.65	17.40	18.5	0.0
Channel				649000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	18.5	0.0
40	QPSK	1	1	17.55	17.48	17.34	18.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3955.03	18.5	0.0
30	QPSK	1	1	17.45	17.63	17.43	18.5	0.0
Channel				647600	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5	18.5	0.0
25	QPSK	1	1	17.44	17.67	17.53	18.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	18.5	0.0
20	QPSK	1	1	17.54	17.48	17.34	18.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	18.5	0.0
15	QPSK	1	1	17.55	17.49	17.40	18.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	18.5	0.0
10	QPSK	1	1	17.51	17.61	17.50	18.5	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				633334	633334	63500.01	18.5	0.0
Frequency (MHz)				36500.01	36500.01	36500.01		
100	PI/2 BPSK	1	1	17.60	17.60	17.60		
100	PI/2 BPSK	1	137	17.57	17.57	17.57	18.5	0.0
100	PI/2 BPSK	1	271	17.50	17.50	17.50		
100	PI/2 BPSK	135	0	17.48	17.48	17.48		
100	PI/2 BPSK	135	69	17.55	17.55	17.55	18.5	0.0
100	PI/2 BPSK	135	138	17.44	17.44	17.44	18.5	0.0
100	PI/2 BPSK	270	0	17.49	17.49	17.49	18.5	0.0
100	QPSK	1	1	17.66	17.66	17.66		
100	QPSK	1	137	17.61	17.61	17.61		
100	QPSK	1	271	17.60	17.60	17.60	18.5	0.0
100	QPSK	135	0	17.45	17.45	17.45		
100	QPSK	135	69	17.54	17.54	17.54		
100	QPSK	135	138	17.50	17.50	17.50	18.5	0.0
100	QPSK	270	0	17.57	17.57	17.57		
100	16QAM	1	1	17.52	17.52	17.52	18.5	0.0
100	64QAM	1	1	17.40	17.40	17.40	18.5	0.0
100	256QAM	1	1	17.45	17.45	17.45	18.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02	18.5	0.0
90	QPSK	1	1	17.46	17.51	17.44	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	18.5	0.0
80	QPSK	1	1	17.50	17.47	17.42	18.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01	18.5	0.0
70	QPSK	1	1	17.45	17.49	17.45	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02	18.5	0.0
60	QPSK	1	1	17.37	17.44	17.36	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	18.5	0.0
50	QPSK	1	1	17.42	17.52	17.40	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	18.5	0.0
40	QPSK	1	1	17.47	17.46	17.42	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	18.5	0.0
30	QPSK	1	1	17.37	17.49	17.45	18.5	0.0
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51	18.5	0.0
25	QPSK	1	1	17.41	17.47	17.39	18.5	0.0
Channel				630568	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	18.5	0.0
20	QPSK	1	1	17.38	17.42	17.39	18.5	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52	18.5	0.0
15	QPSK	1	1	17.40	17.49	17.44	18.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01	18.5	0.0
10	QPSK	1	1	17.38	17.44	17.39	18.5	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				
Frequency (MHz)				3750				
100	Pi/2 BPSK	1	1		17.55		18.5	0.0
100	Pi/2 BPSK	1	137		17.48			
100	Pi/2 BPSK	1	271		17.41		18.5	0.0
100	Pi/2 BPSK	135	0		17.49			
100	Pi/2 BPSK	135	69		17.52		18.5	0.0
100	Pi/2 BPSK	135	138		17.42		18.5	0.0
100	Pi/2 BPSK	270	0		17.47		18.5	0.0
100	QPSK	1	1		17.63			
100	QPSK	1	137		17.50		18.5	0.0
100	QPSK	1	271		17.46			
100	QPSK	135	0		17.49		18.5	0.0
100	QPSK	135	69		17.57		18.5	0.0
100	QPSK	135	138		17.48		18.5	0.0
100	QPSK	270	0		17.53			
100	16QAM	1	1		17.40		18.5	0.0
100	64QAM	1	1		17.38		18.5	0.0
100	256QAM	1	1		17.34		18.5	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.53	17.55	17.58	18.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.54	17.53	17.50	18.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.48	17.62	17.55	18.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.03		
60	QPSK	1	1	17.48	17.59	17.54	18.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.55	17.61	17.46	18.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.55	17.45	17.45	18.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.55	17.57	17.53	18.5	0.0
Channel				647334	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	17.41	17.55	17.47	18.5	0.0
Channel				647000	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.50	17.61	17.60	18.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	17.57	17.61	17.49	18.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	17.45	17.52	17.55	18.5	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				633334				
Frequency (MHz)				3500.01				
100	Pi/2 BPSK	1	1		17.47		18.5	0.0
100	Pi/2 BPSK	1	137		17.44			
100	Pi/2 BPSK	1	271		17.27		18.5	0.0
100	Pi/2 BPSK	135	0		17.36			
100	Pi/2 BPSK	135	69		17.40		18.5	0.0
100	Pi/2 BPSK	135	138		17.27		18.5	0.0
100	Pi/2 BPSK	270	0		17.34		18.5	0.0
100	QPSK	1	1		17.61			
100	QPSK	1	137		17.42		18.5	0.0
100	QPSK	1	271		17.39			
100	QPSK	135	0		17.45		18.5	0.0
100	QPSK	135	69		17.48		18.5	0.0
100	QPSK	135	138		17.34		18.5	0.0
100	QPSK	270	0		17.42			
100	16QAM	1	1		17.26		18.5	0.0
100	64QAM	1	1		17.31		18.5	0.0
100	256QAM	1	1		17.21		18.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.31	17.40	17.33	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	17.26	17.44	17.41	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	17.43	17.40	17.36	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.47	17.40	17.42	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	17.30	17.40	17.40	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.40	17.45	17.34	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	17.41	17.29	17.34	18.5	0.0
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	17.37	17.36	17.43	18.5	0.0
Channel				630568	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.69	3500.01	3540		
20	QPSK	1	1	17.46	17.45	17.37	18.5	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	17.31	17.50	17.40	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	17.37	17.43	17.38	18.5	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				646000	641666	643333	15.0	0.0	
Frequency (MHz)				3800	3624.99	3649.98			
100	PI2 BPSK	1	1	14.35	14.40	14.32			
100	PI2 BPSK	1	137	14.23	14.35	14.26	15.0	0.0	
100	PI2 BPSK	1	271	14.23	14.33	14.30			
100	PI2 BPSK	135	0	14.19	14.28	14.15			
100	PI2 BPSK	135	69	14.28	14.29	14.16	15.0	0.0	
100	PI2 BPSK	135	138	14.20	14.29	14.21			
100	PI2 BPSK	270	0	14.22	14.35	14.25			
100	QPSK	1	1	14.37	14.46	14.42	15.0	0.0	
100	QPSK	1	137	14.26	14.33	14.30			
100	QPSK	1	271	14.24	14.33	14.23			
100	QPSK	135	0	14.28	14.32	14.25	15.0	0.0	
100	QPSK	135	69	14.32	14.42	14.28			
100	QPSK	135	138	14.24	14.31	14.18		15.0	
100	QPSK	270	0	14.21	14.35	14.27	15.0	0.0	
100	16QAM	1	1	14.19	14.27	14.13			
100	64QAM	1	1	14.22	14.28	14.14	15.0	0.0	
100	256QAM	1	1	14.07	14.19	14.16			
Channel				635699	641666	643000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3595.02	3624.99	3654.99	15.0	0.0	
90	QPSK	1	1	14.24	14.39	14.30	15.0	0.0	
Channel				639334	641666	644000			
Frequency (MHz)				3590.01	3624.99	3660			
80	QPSK	1	1	14.25	14.32	14.33	15.0	0.0	
Channel				638668	641666	644666			
Frequency (MHz)				3580.02	3624.99	3669.99			
60	QPSK	1	1	14.27	14.40	14.31	15.0	0.0	
Channel				638334	641666	645000			
Frequency (MHz)				3625.01	3624.99	3675			
50	QPSK	1	1	14.29	14.32	14.33	15.0	0.0	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	QPSK	1	1	14.34	14.33	14.37	15.0	0.0	
Channel				637666	641666	645666			
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	14.31	14.36	14.34	15.0	0.0	
Channel				637334	641666	646000			
Frequency (MHz)				3520.01	3624.99	3690			
20	QPSK	1	1	14.26	14.38	14.32	15.0	0.0	
Channel				637168	641666	646168			
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	14.25	14.41	14.32	15.0	0.0	
Channel				637000	641666	646332			
Frequency (MHz)				3655	3624.99	3694.98			
10	QPSK	1	1	14.22	14.35	14.29	15.0	0.0	
Channel									
Frequency (MHz)									

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	16.5	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	15.56	15.61	15.52			
100	PI2 BPSK	1	137	15.45	15.56	15.48	16.5	0.0	
100	PI2 BPSK	1	271	15.44	15.54	15.37			
100	PI2 BPSK	135	0	15.44	15.62	15.50			
100	PI2 BPSK	135	69	15.52	15.56	15.51	16.5	0.0	
100	PI2 BPSK	135	138	15.41	15.48	15.40			
100	PI2 BPSK	270	0	15.49	15.58	15.41			
100	QPSK	1	1	15.59	15.65	15.55	16.5	0.0	
100	QPSK	1	137	15.47	15.53	15.48			
100	QPSK	1	271	15.51	15.62	15.57			
100	QPSK	135	0	15.31	15.50	15.44	16.5	0.0	
100	QPSK	135	69	15.45	15.59	15.47			
100	QPSK	135	138	15.36	15.47	15.42			
100	QPSK	270	0	15.43	15.52	15.48	16.5	0.0	
100	16QAM	1	1	15.35	15.39	15.34			
100	64QAM	1	1	15.41	15.54	15.49			
100	256QAM	1	1	15.21	15.33	15.32	16.5	0.0	
Channel				646668	650000	662334			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.44	15.60	15.52	16.5	0.0	
Channel				649334	650000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.46	15.59	15.50	16.5	0.0	
Channel				649000	650000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.47	15.57	15.42	16.5	0.0	
Channel				648668	650000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.51	15.60	15.45	16.5	0.0	
Channel				648334	650000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.54	15.56	15.50	16.5	0.0	
Channel				648000	650000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.55	15.57	15.47	16.5	0.0	
Channel				647668	650000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.56	15.54	15.52	16.5	0.0	
Channel				647500	650000	664500			
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	15.46	15.56	15.40	16.5	0.0	
Channel				647334	650000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.53	15.51	15.42	16.5	0.0	
Channel				647168	650000	664834			
Frequency (MHz)				3707.52	3840	3971.52			
15	QPSK	1	1	15.58	15.61	15.45	16.5	0.0	
Channel				647000	650000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.54	15.59	15.41	16.5	0.0	
Channel									
Frequency (MHz)									

Part27Q n77 PC3&2 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					633334	3500.01			
Frequency (MHz)									
100	PI2 BPSK	1	1		15.61		16.5	0.0	
100	PI2 BPSK	1	137		15.59				
100	PI2 BPSK	1	271		15.51				
100	PI2 BPSK	135	0		15.53		16.5	0.0	
100	PI2 BPSK	135	69		15.64		16.5	0.0	
100	PI2 BPSK	135	138		15.48		16.5	0.0	
100	PI2 BPSK	270	0		15.55		16.5	0.0	
100	QPSK	1	1		15.65		16.5	0.0	
100	QPSK	1	137		15.63				
100	QPSK	1	271		15.58				
100	QPSK	135	0		15.47		16.5	0.0	
100	QPSK	135	69		15.60		16.5	0.0	
100	QPSK	135	138		15.49		16.5	0.0	
100	QPSK	270	0		15.53		16.5	0.0	
100	16QAM	1	1		15.43		16.5	0.0	
100	64QAM	1	1		15.59		16.5	0.0	
100	256QAM	1	1		15.43		16.5	0.0	
Channel				633500	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486	3500.01	3505.02			
90	QPSK	1	1	15.48	15.61	15.41	16.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	15.47	15.53	15.40	16.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	15.47	15.55	15.50	16.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	0	15.47	15.54	15.43	16.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	15.54	15.56	15.42	16.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	15.51	15.55	15.41	16.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	15.47	15.62	15.49	16.5	0.0	
Channel				630668	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	15.54	15.59	15.50	16.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.05	3500.01	3540			
20	QPSK	1	1	15.47	15.50	15.45	16.5	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	15.57	15.58	15.48	16.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	15.51	15.51	15.50	16.5	0.0	

Part27O n78 PC3 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				3750			16.5	0.0			
Frequency (MHz)											
100	PI2 BPSK	1	1	15.53							
100	PI2 BPSK	1	137	15.47							
100	PI2 BPSK	1	271	15.48			16.5	0.0			
100	PI2 BPSK	135	0	15.45							
100	PI2 BPSK	135	69	15.49							
100	PI2 BPSK	135	138	15.37							
100	PI2 BPSK	270	0	15.42			16.5	0.0			
100	QPSK	1	1	15.56							
100	QPSK	1	137	15.46							
100	QPSK	1	271	15.54							
100	QPSK	135	0	15.33			16.5	0.0			
100	QPSK	135	69	15.48							
100	QPSK	135	138	15.34							
100	QPSK	270	0	15.42							
100	16QAM	1	1	15.38			16.5	0.0			
100	64QAM	1	1	15.43							
100	256QAM	1	1	15.30							
Channel				648688	650000	650334	Tune-up limit (dBm)				
Frequency (MHz)				3745.02	3750	3755.01	MPR (dB)				
90	QPSK	1	1	15.32	15.52	15.40	16.5	0.0			
Channel				649334	650000	650668	Tune-up limit (dBm)				
Frequency (MHz)				3740.01	3750	3760.02	MPR (dB)				
80	QPSK	1	1	15.38	15.54	15.49	16.5	0.0			
Channel				649000	650000	651000	Tune-up limit (dBm)				
Frequency (MHz)				3735	3750	3765	MPR (dB)				
70	QPSK	1	1	15.33	15.53	15.44	16.5	0.0			
Channel				648668	650000	651334	Tune-up limit (dBm)				
Frequency (MHz)				3730.02	3750	3770.01	MPR (dB)				
60	QPSK	1	1	15.34	15.45	15.42	16.5	0.0			
Channel				648334	650000	651668	Tune-up limit (dBm)				
Frequency (MHz)				3725.01	3750	3775.02	MPR (dB)				
50	QPSK	1	1	15.40	15.42	15.42	16.5	0.0			
Channel				647000	650000	652000	Tune-up limit (dBm)				
Frequency (MHz)				3720	3750	3780	MPR (dB)				
40	QPSK	1	1	15.35	15.44	15.37	16.5	0.0			
Channel				647668	650000	652334	Tune-up limit (dBm)				
Frequency (MHz)				3715.02	3750	3765.01	MPR (dB)				
30	QPSK	1	1	15.31	15.50	15.32	16.5	0.0			
Channel				647500	650000	652500	Tune-up limit (dBm)				
Frequency (MHz)				3712.5	3750	3787.5	MPR (dB)				
25	QPSK	1	1	15.36	15.51	15.36	16.5	0.0			
Channel				647334	650000	652668	Tune-up limit (dBm)				
Frequency (MHz)				3710.01	3750	3790.02	MPR (dB)				
20	QPSK	1	1	15.43	15.41	15.37	16.5	0.0			
Channel				647168	650000	652834	Tune-up limit (dBm)				
Frequency (MHz)				3707.52	3750	3792.51	MPR (dB)				
15	QPSK	1	1	15.40	15.49	15.43	16.5	0.0			
Channel				647000	650000	653000	Tune-up limit (dBm)				
Frequency (MHz)				3705	3750	3795	MPR (dB)				
10	QPSK	1	1	15.32	15.50	15.46	16.5	0.0			

Part27Q n78 PC3 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				3500.01			16.5	0.0			
Frequency (MHz)											
100	PI2 BPSK	1	1	15.59							
100	PI2 BPSK	1	137	15.56							
100	PI2 BPSK	1	271	15.52			16.5	0.0			
100	PI2 BPSK	135	0	15.50							
100	PI2 BPSK	135	69	15.56							
100	PI2 BPSK	135	138	15.47							
100	PI2 BPSK	270	0	15.51			16.5	0.0			
100	QPSK	1	1	15.63							
100	QPSK	1	137	15.55							
100	QPSK	1	271	15.49							
100	QPSK	135	0	15.50			16.5	0.0			
100	QPSK	135	69	15.57							
100	QPSK	135	138	15.41							
100	QPSK	270	0	15.48							
100	16QAM	1	1	15.46			16.5	0.0			
100	64QAM	1	1	15.49							
100	256QAM	1	1	15.40							
Channel				633000	633334	633668	Tune-up limit (dBm)				
Frequency (MHz)				3495	3500.01	3505.02	MPR (dB)				
90	QPSK	1	1	15.54	15.60	15.50	16.5	0.0			
Channel				632668	633334	634000	Tune-up limit (dBm)				
Frequency (MHz)				3490.02	3500.01	3510	MPR (dB)				
80	QPSK	1	1	15.54	15.57	15.58	16.5	0.0			
Channel				632334	633334	634334	Tune-up limit (dBm)				
Frequency (MHz)				3485.01	3500.01	3515.01	MPR (dB)				
70	QPSK	1	1	15.51	15.50	15.50	16.5	0.0			
Channel				632000	633334	634668	Tune-up limit (dBm)				
Frequency (MHz)				3480	3500.01	3520.02	MPR (dB)				
60	QPSK	1	1	15.60	15.57	15.58	16.5	0.0			
Channel				631668	633334	635000	Tune-up limit (dBm)				
Frequency (MHz)				3475.02	3500.01	3525	MPR (dB)				
50	QPSK	1	1	15.43	15.55	15.49	16.5	0.0			
Channel				631334	633334	635334	Tune-up limit (dBm)				
Frequency (MHz)				3470.01	3500.01	3530.01	MPR (dB)				
40	QPSK	1	1	15.43	15.51	15.40	16.5	0.0			
Channel				631000	633334	635668	Tune-up limit (dBm)				
Frequency (MHz)				3465	3500.01	3535.02	MPR (dB)				
30	QPSK	1	1	15.41	15.54	15.39	16.5	0.0			
Channel				630668	633334	635834	Tune-up limit (dBm)				
Frequency (MHz)				3462.51	3500.01	3537.51	MPR (dB)				
25	QPSK	1	1	15.52	15.54	15.41	16.5	0.0			
Channel				630668	633334	636000	Tune-up limit (dBm)				
Frequency (MHz)				3460.02	3500.01	3540	MPR (dB)				
20	QPSK	1	1	15.48	15.60	15.47	16.5	0.0			
Channel				630500	633334	636168	Tune-up limit (dBm)				
Frequency (MHz)				3457.5	3500.01	3542.52	MPR (dB)				
15	QPSK	1	1	15.53	15.47	15.40	16.5	0.0			
Channel				630334	633334	636334	Tune-up limit (dBm)				
Frequency (MHz)				3455.01	3500.01	3545.01	MPR (dB)				
10	QPSK	1	1	15.56	15.46	15.55	16.5	0.0			



n48 Part96 Ant5 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				646000	641666	643332					
Frequency (MHz)				3600	3624.99	3649.98					
100	PV2 BPSK	1	1	21.16	21.20	21.10	22.0	0.0			
100	PV2 BPSK	1	137	21.00	21.13	21.08					
100	PV2 BPSK	1	271	20.87	21.05	21.02					
100	PV2 BPSK	135	0	21.04	21.12	21.06					
100	PV2 BPSK	135	69	21.09	21.13	21.02	22.0	0.0			
100	PV2 BPSK	135	138	20.93	21.04	20.98	22.0	0.0			
100	PV2 BPSK	270	0	20.90	21.05	21.00	22.0	0.0			
100	QPSK	1	1	21.22	21.27	21.18					
100	QPSK	1	137	21.15	21.18	21.06					
100	QPSK	1	271	21.01	21.14	21.10					
100	QPSK	135	0	20.92	21.05	21.00	22.0	0.0			
100	QPSK	135	69	21.08	21.22	21.15	22.0	0.0			
100	QPSK	135	138	21.03	21.11	21.06	22.0	0.0			
100	QPSK	270	0	21.10	21.16	21.07	22.0	0.0			
100	16QAM	1	1	20.97	21.06	21.01					
100	64QAM	1	1	20.39	20.44	20.34					
100	256QAM	1	1	18.91	19.04	18.89					
Channel				636000	641666	643000	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3595.02	3624.99	3654.99					
90	QPSK	1	1	21.12	21.20	21.09	22.0	0.0			
Channel				639334	641666	644000	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3700.01	3624.99	3660					
80	QPSK	1	1	21.08	21.13	21.07	22.0	0.0			
Channel				638998	641666	644666	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3580.02	3624.99	3669.99					
60	QPSK	1	1	21.09	21.18	21.06	22.0	0.0			
Channel				636334	641666	645000	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3625.01	3624.99	3675					
50	QPSK	1	1	21.13	21.20	21.07	22.0	0.0			
Channel				638000	641666	645332	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3570	3624.99	3679.98					
40	QPSK	1	1	21.18	21.22	21.10	22.0	0.0			
Channel				637666	641666	645000	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3565.02	3624.99	3684.99					
30	QPSK	1	1	21.14	21.13	21.10	22.0	0.0			
Channel				637334	641666	646000	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3520.01	3624.99	3690					
20	QPSK	1	1	21.11	21.19	21.10	22.0	0.0			
Channel				637168	641666	646168	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3557.52	3624.99	3692.49					
15	QPSK	1	1	21.09	21.24	21.10	22.0	0.0			
Channel				637000	641666	646332	Tune-up limit (dBm) MPR (dB)				
Frequency (MHz)				3655	3624.99	3694.98					
10	QPSK	1	1	21.17	21.22	21.15	22.0	0.0			

Part270 n77 PC3&2 Ant5 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)				3760	3840	3930					
100	PV2 BPSK	1	1	19.27	19.40	19.28	20.5	0.0			
100	PV2 BPSK	1	137	19.27	19.30	19.28					
100	PV2 BPSK	1	271	19.19	19.26	19.17					
100	PV2 BPSK	135	0	19.12	19.27	19.26					
100	PV2 BPSK	135	69	19.23	19.37	19.20	20.5	0.0			
100	PV2 BPSK	135	138	19.18	19.28	19.23	20.5	0.0			
100	PV2 BPSK	270	0	19.24	19.30	19.22	20.5	0.0			
100	QPSK	1	1	19.35	19.45	19.40					
100	QPSK	1	137	19.28	19.41	19.21					
100	QPSK	1	271	19.37	19.35	19.27					
100	QPSK	135	0	19.23	19.32	19.25	20.5	0.0			
100	QPSK	135	69	19.23	19.39	19.29	20.5	0.0			
100	QPSK	135	138	19.18	19.26	19.13	20.5	0.0			
100	QPSK	270	0	19.24	19.33	19.25	20.5	0.0			
100	16QAM	1	1	19.26	19.34	19.26					
100	64QAM	1	1	19.09	19.24	19.06					
100	256QAM	1	1	19.18	19.18	19.26					
Channel				646668	650000	662334	Tune-up limit (dBm)				
Frequency (MHz)				3745.02	3840	3935.01	MPR (dB)				
90	QPSK	1	1	19.29	19.36	19.26	20.5	0.0			
Channel				649334	650000	662668	Tune-up limit (dBm)				
Frequency (MHz)				3740.01	3840	3940.02	MPR (dB)				
80	QPSK	1	1	19.29	19.42	19.37	20.5	0.0			
Channel				649000	650000	663000	Tune-up limit (dBm)				
Frequency (MHz)				3735	3840	3945	MPR (dB)				
70	QPSK	1	1	19.25	19.37	19.29	20.5	0.0			
Channel				648668	650000	663334	Tune-up limit (dBm)				
Frequency (MHz)				3720.02	3840	3950.01	MPR (dB)				
60	QPSK	1	1	19.22	19.40	19.27	20.5	0.0			
Channel				648334	650000	663668	Tune-up limit (dBm)				
Frequency (MHz)				3725.01	3840	3955.02	MPR (dB)				
50	QPSK	1	1	19.23	19.36	19.30	20.5	0.0			
Channel				648000	650000	664000	Tune-up limit (dBm)				
Frequency (MHz)				3720	3840	3960	MPR (dB)				
40	QPSK	1	1	19.24	19.41	19.33	20.5	0.0			
Channel				647668	650000	664334	Tune-up limit (dBm)				
Frequency (MHz)				3713.02	3840	3953.01	MPR (dB)				
30	QPSK	1	1	19.23	19.40	19.30	20.5	0.0			
Channel				647500	650000	664500	Tune-up limit (dBm)				
Frequency (MHz)				3712.5	3840	3967.5	MPR (dB)				
25	QPSK	1	1	19.24	19.33	19.35	20.5	0.0			
Channel				647334	650000	664668	Tune-up limit (dBm)				
Frequency (MHz)				3710.01	3840	3970.02	MPR (dB)				
20	QPSK	1	1	19.29	19.41	19.27	20.5	0.0			
Channel				647168	650000	664834	Tune-up limit (dBm)				
Frequency (MHz)				3707.52	3840	3972.51	MPR (dB)				
15	QPSK	1	1	19.32	19.39	19.29	20.5	0.0			
Channel				647000	650000	665000	Tune-up limit (dBm)				
Frequency (MHz)				3705	3840	3975	MPR (dB)				
10	QPSK	1	1	19.29	19.37	19.34	20.5	0.0			

Part27Q n77 PC3&2 Ant5 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							
Frequency (MHz)					3500.01							
100	PV2 BPSK	1	1		19.84		20.5		0.0			
100	PV2 BPSK	1	137		19.85							
100	PV2 BPSK	1	271		19.73							
100	PV2 BPSK	135	0		19.82							
100	PV2 BPSK	135	69		19.81		20.5	0.0				
100	PV2 BPSK	135	138		19.85		20.5	0.0				
100	PV2 BPSK	270	0		19.70		20.5		0.0			
100	QPSK	1	1		19.89							
100	QPSK	1	137		19.74							
100	QPSK	1	271		19.69							
100	QPSK	135	0		19.74		20.5	0.0				
100	QPSK	135	69		19.85		20.5	0.0				
100	QPSK	135	138		19.72		20.5	0.0				
100	QPSK	270	0		19.74		20.5		0.0			
100	16QAM	1	1		19.67							
100	64QAM	1	1		19.58							
100	256QAM	1	1		19.56							
Channel				633000	633334	633668	Tune-up limit (dBm)					
Frequency (MHz)				3495	3500.01	3505.02	MPR (dB)					
90	QPSK	1	1	19.72	19.74	19.69	20.5					
Channel				632668	633334	634000	Tune-up limit (dBm)					
Frequency (MHz)				3450.02	3500.01	3510	MPR (dB)					
80	QPSK	1	1	19.68	19.70	19.65	20.5		0.0			
Channel				632334	633334	634334				Tune-up limit (dBm)		
Frequency (MHz)				3485.01	3500.01	3515.01				MPR (dB)		
70	QPSK	1	1	19.79	19.86	19.72				20.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)					
Frequency (MHz)				3465	3500.01	3510.02	MPR (dB)					
60	QPSK	1	1	19.78	19.83	19.72	20.5	0.0				
Channel				631668	633334	635000	Tune-up limit (dBm)					
Frequency (MHz)				3475.02	3500.01	3525	MPR (dB)					
50	QPSK	1	1	19.70	19.80	19.63	20.5		0.0			
Channel				631334	633334	635334				Tune-up limit (dBm)		
Frequency (MHz)				3470.01	3500.01	3530.01				MPR (dB)		
40	QPSK	1	1	19.70	19.77	19.70				20.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)					
Frequency (MHz)				3460	3500.01	3535.02	MPR (dB)					
30	QPSK	1	1	19.71	19.70	19.62	20.5		0.0			
Channel				630634	633334	635934				Tune-up limit (dBm)		
Frequency (MHz)				3462.51	3500.01	3537.51				MPR (dB)		
25	QPSK	1	1	19.74	19.80	19.72				20.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)					
Frequency (MHz)				3460.65	3500.01	3540	MPR (dB)					
20	QPSK	1	1	19.73	19.82	19.72	20.5		0.0			
Channel				630500	633334	636168				Tune-up limit (dBm)		
Frequency (MHz)				3457.6	3500.01	3542.52				MPR (dB)		
15	QPSK	1	1	19.69	19.84	19.73				20.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)					
Frequency (MHz)				3455.01	3500.01	3545.01	MPR (dB)					
10	QPSK	1	1	19.76	19.77	19.71	20.5	0.0				

Part27O n78 PC3 Ant5 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					
Frequency (MHz)				19.34					
100	PI2 BPSK	1	1		19.34				
100	PI2 BPSK	1	137		19.23		20.5	0.0	
100	PI2 BPSK	1	271		19.19				
100	PI2 BPSK	135	0		19.16		20.5	0.0	
100	PI2 BPSK	135	69		19.24		20.5	0.0	
100	PI2 BPSK	135	138		19.11		20.5	0.0	
100	PI2 BPSK	270	0		19.16				
100	QPSK	1	1		19.36		20.5	0.0	
100	QPSK	1	137		19.31				
100	QPSK	1	271		19.28				
100	QPSK	135	0		19.22		20.5	0.0	
100	QPSK	135	69		19.31		20.5	0.0	
100	QPSK	135	138		19.22		20.5	0.0	
100	QPSK	270	0		19.27				
100	16QAM	1	1		19.19		20.5	0.0	
100	64QAM	1	1		19.15		20.5	0.0	
100	256QAM	1	1		19.53		19.5	1.0	
Channel				649668	650000	650234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	19.21	19.20	19.24	20.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	19.24	19.34	19.10	20.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	19.16	19.22	19.17	20.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	19.14	19.19	19.18	20.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	19.18	19.18	19.12	20.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	19.26	19.29	19.24	20.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	19.30	19.32	19.24	20.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3767.5			
25	QPSK	1	1	19.25	19.30	19.12	20.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3760.02			
20	QPSK	1	1	19.14	19.23	19.20	20.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3762.51			
15	QPSK	1	1	19.25	19.21	19.19	20.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	19.31	19.20	19.11	20.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				19.75					
100	PI2 BPSK	1	1		19.75				
100	PI2 BPSK	1	137		19.67		20.5	0.0	
100	PI2 BPSK	1	271		19.61				
100	PI2 BPSK	135	0		19.59		20.5	0.0	
100	PI2 BPSK	135	69		19.69		20.5	0.0	
100	PI2 BPSK	135	138		19.55		20.5	0.0	
100	PI2 BPSK	270	0		19.57				
100	QPSK	1	1		19.61		20.5	0.0	
100	QPSK	1	137		19.77				
100	QPSK	1	271		19.70				
100	QPSK	135	0		19.68		20.5	0.0	
100	QPSK	135	69		19.72		20.5	0.0	
100	QPSK	135	138		19.66		20.5	0.0	
100	QPSK	270	0		19.64				
100	16QAM	1	1		19.60		20.5	0.0	
100	64QAM	1	1		19.54		20.5	0.0	
100	256QAM	1	1		19.71		19.5	1.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	19.69	19.68	19.63	20.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	19.69	19.80	19.62	20.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	19.69	19.71	19.74	20.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	19.72	19.69	19.69	20.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	19.72	19.68	19.75	20.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	19.56	19.80	19.60	20.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3533.02			
30	QPSK	1	1	19.73	19.63	19.67	20.5	0.0	
Channel				630668	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	19.72	19.73	19.70	20.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	19.71	19.72	19.65	20.5	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	19.74	19.70	19.72	20.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	19.71	19.68	19.63	20.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Middle Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit	MPR (dB)	
Channel				509202	518598	528000	2640		
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	14.67	14.67	14.68			
100	PV2 BPSK	1	137	14.50	14.66	14.53			
100	PV2 BPSK	1	271	14.44	14.76	14.64	16.0	0.0	
100	PV2 BPSK	135	0	14.58	14.71	14.76			
100	PV2 BPSK	135	69	14.51	14.64	14.64			
100	PV2 BPSK	135	138	14.54	14.75	14.48			
100	PV2 BPSK	270	0	14.69	14.67	14.76	16.0	0.0	
100	QPSK	1	1	14.71	14.67	14.67			
100	QPSK	1	137	14.60	14.76	14.61			
100	QPSK	1	271	14.79	14.68	14.58			
100	QPSK	135	0	14.44	14.59	14.51	16.0	0.0	
100	QPSK	135	69	14.76	14.80	14.89			
100	QPSK	135	138	14.59	14.63	14.71			
100	QPSK	270	0	14.44	14.73	14.70			
100	16QAM	1	1	14.47	14.60	14.48	16.0	0.0	
100	64QAM	1	1	14.72	14.86	14.62			
100	256QAM	1	1	14.44	14.62	14.85			
100	512QAM	1	1	14.44	14.62	14.85			
Channel				508200	518598	529998	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.74	14.64	14.66	16.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	14.70	14.69	14.67		16.0	
Channel				506202	518598	531000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	14.56	14.81	14.70	16.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	14.74	14.76	14.56		16.0	
Channel				504204	518598	532998	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	14.59	14.69	14.71	16.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.56	14.68	14.55		16.0	
Channel				502202	518598	534996	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	14.58	14.65	14.60	16.0	0.0	
Channel				501204	518598	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	14.66	14.68	14.53		16.0	
Channel				500700	518598	536496	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.46			
15	QPSK	1	1	14.62	14.76	14.68	16.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	14.70	14.69	14.69		16.0	



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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				646000	641666	645332		
Frequency (MHz)				3600	3624.99	3649.98		
100	PV2 BPSK	1	1	14.64	14.72	14.68		
100	PV2 BPSK	1	137	14.60	14.68	14.59	16.0	0.0
100	PV2 BPSK	1	271	14.54	14.61	14.46		
100	PV2 BPSK	135	0	14.48	14.59	14.56	16.0	0.0
100	PV2 BPSK	135	69	14.62	14.66	14.55	16.0	0.0
100	PV2 BPSK	135	138	14.46	14.58	14.44	16.0	0.0
100	PV2 BPSK	270	0	14.58	14.63	14.57		
100	QPSK	1	1	14.85	14.76	14.68		
100	QPSK	1	137	14.83	14.68	14.58	16.0	0.0
100	QPSK	1	271	14.50	14.64	14.55		
100	QPSK	135	0	14.51	14.80	14.50	16.0	0.0
100	QPSK	135	69	14.59	14.86	14.55	16.0	0.0
100	QPSK	135	138	14.83	14.54	14.49	16.0	0.0
100	QPSK	270	0	14.50	14.59	14.56		
100	16QAM	1	1	14.42	14.54	14.42	16.0	0.0
100	64QAM	1	1	14.41	14.54	14.45	16.0	0.0
100	256QAM	1	1	14.49	14.55	14.41	16.0	0.0
Channel				639008	641666	643006		
Frequency (MHz)				3595.02	3624.99	3654.99		
90	QPSK	1	1	14.56	14.64	14.57	16.0	0.0
Channel				639334	641666	644000		
Frequency (MHz)				3595.01	3624.99	3660		
80	QPSK	1	1	14.53	14.70	14.63	16.0	0.0
Channel				638668	641666	644666		
Frequency (MHz)				3580.02	3624.99	3669.99		
60	QPSK	1	1	14.58	14.61	14.63	16.0	0.0
Channel				638334	641666	645000		
Frequency (MHz)				3575.01	3624.99	3675		
50	QPSK	1	1	14.51	14.69	14.65	16.0	0.0
Channel				638000	641666	645332		
Frequency (MHz)				3570	3624.99	3679.98		
40	QPSK	1	1	14.56	14.71	14.80	16.0	0.0
Channel				637668	641666	645666		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	14.50	14.72	14.54	16.0	0.0
Channel				637334	641666	646000		
Frequency (MHz)				3557.01	3624.99	3690		
20	QPSK	1	1	14.59	14.65	14.54	16.0	0.0
Channel				637168	641666	646166		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	QPSK	1	1	14.56	14.67	14.58	16.0	0.0
Channel				637000	641666	646332		
Frequency (MHz)				3555	3624.99	3694.88		
10	QPSK	1	1	14.53	14.83	14.59	16.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				660000	660000	660000		
Frequency (MHz)				3760	3840	3920		
100	PV2 BPSK	1	1	16.14	16.18	16.11		
100	PV2 BPSK	1	137	16.04	16.16	16.04	17.3	0.0
100	PV2 BPSK	1	271	16.06	16.12	15.99		
100	PV2 BPSK	135	0	16.13	16.16	16.09	17.3	0.0
100	PV2 BPSK	135	69	16.07	16.15	16.02	17.3	0.0
100	PV2 BPSK	135	138	16.06	16.12	16.08	17.3	0.0
100	PV2 BPSK	270	0	16.15	16.18	16.08		
100	QPSK	1	1	16.16	16.24	16.12		
100	QPSK	1	137	16.17	16.20	16.09	17.3	0.0
100	QPSK	1	271	16.13	16.17	16.08		
100	QPSK	135	0	16.01	16.09	16.05	17.3	0.0
100	QPSK	135	69	16.07	16.19	16.08	17.3	0.0
100	QPSK	135	138	16.01	16.07	16.02	17.3	0.0
100	QPSK	270	0	15.99	16.12	16.08		
100	16QAM	1	1	16.08	16.11	16.04	17.3	0.0
100	64QAM	1	1	15.97	16.04	16.00	17.3	0.0
100	256QAM	1	1	16.03	16.06	15.96	17.3	0.0
Channel				649008	650000	662334		
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.03	16.15	16.07	17.3	0.0
Channel				649334	650000	662668		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.04	16.19	16.07	17.3	0.0
Channel				649000	650000	663000		
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	16.07	16.18	15.99	17.3	0.0
Channel				648668	650000	663334		
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.01	16.21	16.06	17.3	0.0
Channel				648334	650000	663668		
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.12	16.19	16.07	17.3	0.0
Channel				648000	650000	664000		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.02	16.13	16.04	17.3	0.0
Channel				647668	650000	664334		
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.04	16.11	16.04	17.3	0.0
Channel				647500	650000	664500		
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	16.09	16.15	15.99	17.3	0.0
Channel				647334	650000	664668		
Frequency (MHz)				3710.01	3840	3970.01		
20	QPSK	1	1	16.12	16.17	16.04	17.3	0.0
Channel				647168	650000	664834		
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	16.02	16.16	15.97	17.3	0.0
Channel				647000	650000	665000		
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	16.11	16.20	16.02	17.3	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				
Frequency (MHz)					3500.01				
100	PV2 BPSK	1	1		16.27				
100	PV2 BPSK	1	137		16.20		17.3	0.0	
100	PV2 BPSK	1	271		16.18				
100	PV2 BPSK	135	0		16.25		17.3	0.0	
100	PV2 BPSK	135	69		16.22		17.3	0.0	
100	PV2 BPSK	135	138		16.21		17.3	0.0	
100	PV2 BPSK	270	0		16.24				
100	QPSK	1	1		16.32				
100	QPSK	1	137		16.29		17.3	0.0	
100	QPSK	1	271		16.24				
100	QPSK	135	0		16.13		17.3	0.0	
100	QPSK	135	69		16.26		17.3	0.0	
100	QPSK	135	138		16.13		17.3	0.0	
100	QPSK	270	0		16.19				
100	16QAM	1	1		16.13		17.3	0.0	
100	64QAM	1	1		16.11		17.3	0.0	
100	256QAM	1	1		16.13		17.3	0.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		16.22	16.20	16.17	17.3	0.0
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		16.22	16.26	16.19	17.3	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		16.22	16.21	16.19	17.3	0.0
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		16.19	16.21	16.11	17.3	0.0
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		16.19	16.25	16.22	17.3	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		16.23	16.20	16.19	17.3	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		16.19	16.16	16.17	17.3	0.0
Channel				630634	633334	635834			
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		16.19	16.23	16.15	17.3	0.0
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		16.24	16.24	16.15	17.3	0.0
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		16.20	16.26	16.15	17.3	0.0
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		16.15	16.19	16.11	17.3	0.0

Part27O n78 PC3 Ant7 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				3750			17.0	0.0	
Frequency (MHz)									
100	PI2 BPSK	1	1	15.41					
100	PI2 BPSK	1	137	15.38					
100	PI2 BPSK	1	271	15.32					
100	PI2 BPSK	135	0	15.30			17.0	0.0	
100	PI2 BPSK	135	69	15.38			17.0	0.0	
100	PI2 BPSK	135	138	15.29			17.0	0.0	
100	PI2 BPSK	270	0	15.34			17.0	0.0	
100	QPSK	1	1	15.43					
100	QPSK	1	137	15.40					
100	QPSK	1	271	15.31					
100	QPSK	135	0	15.21			17.0	0.0	
100	QPSK	135	69	15.39			17.0	0.0	
100	QPSK	135	138	15.27			17.0	0.0	
100	QPSK	270	0	15.33			17.0	0.0	
100	16QAM	1	1	15.30			17.0	0.0	
100	64QAM	1	1	15.20			17.0	0.0	
100	256QAM	1	1	15.24			17.0	0.0	
Channel				648688	650000	650234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	15.28	15.30	15.21	17.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	15.33	15.31	15.20	17.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.36	15.29	15.31	17.0	0.0	
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	15.30	15.36	15.28	17.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	15.29	15.29	15.32	17.0	0.0	
Channel				647668	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	15.27	15.34	15.32	17.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	15.30	15.32	15.29	17.0	0.0	
Channel				647500	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3767.5			
25	QPSK	1	1	15.25	15.39	15.27	17.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3760.02			
20	QPSK	1	1	15.31	15.38	15.32	17.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3762.51			
15	QPSK	1	1	15.28	15.37	15.23	17.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	15.30	15.34	15.32	17.0	0.0	

Part27Q n78 PC3 Ant7 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				3500.01			17.0	0.0	
Frequency (MHz)									
100	PI2 BPSK	1	1	15.93					
100	PI2 BPSK	1	137	15.89					
100	PI2 BPSK	1	271	15.86					
100	PI2 BPSK	135	0	15.82			17.0	0.0	
100	PI2 BPSK	135	69	15.88			17.0	0.0	
100	PI2 BPSK	135	138	15.78			17.0	0.0	
100	PI2 BPSK	270	0	15.85					
100	QPSK	1	1	15.97					
100	QPSK	1	137	15.93					
100	QPSK	1	271	15.88					
100	QPSK	135	0	15.82			17.0	0.0	
100	QPSK	135	69	15.94			17.0	0.0	
100	QPSK	135	138	15.80			17.0	0.0	
100	QPSK	270	0	15.85			17.0	0.0	
100	16QAM	1	1	15.85			17.0	0.0	
100	64QAM	1	1	15.68			17.0	0.0	
100	256QAM	1	1	15.73			17.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	15.75	15.86	15.79	17.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	15.85	15.89	15.89	17.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	15.85	15.93	15.88	17.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	15.74	15.94	15.87	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	15.78	15.90	15.82	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	15.74	15.83	15.78	17.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3533.02			
30	QPSK	1	1	15.79	15.91	15.81	17.0	0.0	
Channel				630668	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	15.79	15.85	15.86	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	15.77	15.93	15.89	17.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	15.83	15.86	15.85	17.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	15.85	15.84	15.81	17.0	0.0	



Full&Default Power Mode for SCS-30

n2 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376000	378000	24.0	0.0	
Frequency (MHz)				1870	1880	1890			
40	PI2 BPSK	1	1	23.02	23.05	22.98	24.0	0.0	
40	PI2 BPSK	1	53	22.89	22.94	22.77			
40	PI2 BPSK	1	104	22.92	22.90	22.90			
40	PI2 BPSK	50	0	22.32	22.44	22.40	23.5	0.5	
40	PI2 BPSK	50	26	23.02	23.09	23.06	24.0	0.0	
40	PI2 BPSK	50	56	22.42	22.45	22.46	23.5	0.5	
40	PI2 BPSK	100	0	22.39	22.48	22.41			
40	QPSK	1	1	23.06	23.15	23.10			
40	QPSK	1	53	23.07	23.09	22.99	24.0	0.0	
40	QPSK	1	104	22.96	23.05	22.85	23.0	1.0	
40	QPSK	50	0	21.85	22.00	21.78			
40	QPSK	50	26	23.01	23.07	22.97			
40	QPSK	50	56	21.83	21.96	21.91	23.0	1.0	
40	QPSK	100	0	21.94	22.03	21.99	23.0	1.0	
40	16QAM	1	1	21.58	21.60	21.53			
40	64QAM	1	1	20.06	20.15	19.99			
40	256QAM	1	1	18.68	18.73	18.59	19.5	4.5	
Channel				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1885	(dB)		
30	QPSK	1	1	23.05	23.08	22.94	24.0	0.0	
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1897.5	(dB)		
25	QPSK	1	1	23.03	23.11	22.99	24.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1900	(dBm)		
20	QPSK	1	1	22.99	23.01	22.99	19.0	2.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	(dB)		
15	QPSK	1	1	23.01	23.03	23.00	22.0	1.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905	(dBm)		
10	QPSK	1	1	22.99	23.05	22.98	24.0	0.0	

n5 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	24.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.81	22.85	22.96	24.0	0.0	
20	PI2 BPSK	1	26	22.69	22.73	22.68			
20	PI2 BPSK	1	49	22.70	22.75	22.72			
20	PI2 BPSK	25	0	22.38	22.50	22.35	23.5	0.5	
20	PI2 BPSK	25	13	22.67	22.69	22.76	24.0	0.0	
20	PI2 BPSK	25	26	22.11	22.32	22.29	23.5	0.5	
20	PI2 BPSK	50	0	22.30	22.40	22.27			
20	QPSK	1	1	22.88	22.94	22.83			
20	QPSK	1	26	22.74	22.78	22.62	24.0	0.0	
20	QPSK	1	49	22.61	22.67	22.62	23.0	1.0	
20	QPSK	25	0	21.87	21.97	21.77			
20	QPSK	25	13	22.82	22.92	22.87			
20	QPSK	25	26	21.77	21.83	21.71	23.0	1.0	
20	QPSK	50	0	21.80	21.90	21.86	23.0	1.0	
20	16QAM	1	1	21.68	21.75	21.71			
20	64QAM	1	1	20.13	20.22	20.22			
20	256QAM	1	1	18.70	18.77	18.58	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	(dB)		
15	QPSK	1	1	22.68	22.92	22.81	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	(dBm)		
10	QPSK	1	1	22.77	22.88	22.82	24.0	0.0	

n7 Ant0 Default									
BW [MHz]	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	507000	509000	24.0	0.0	
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	22.76	22.81	22.73	24.0	0.0	
50	PI2 BPSK	1	67	22.73	22.75	22.54			
50	PI2 BPSK	1	131	22.23	22.24	22.25			
50	PI2 BPSK	64	0	22.14	22.27	22.13	23.5	0.5	
50	PI2 BPSK	64	35	22.58	22.75	22.57	24.0	0.0	
50	PI2 BPSK	64	69	22.10	22.17	22.07	23.5	0.5	
50	PI2 BPSK	128	0	22.24	22.26	22.18			
50	QPSK	1	1	22.78	22.83	22.73			
50	QPSK	1	67	22.71	22.77	22.69	24.0	0.0	
50	QPSK	1	131	22.10	22.27	22.18			
50	QPSK	64	0	21.63	21.78	21.59	23.0	1.0	
50	QPSK	64	35	22.68	22.78	22.72	24.0	0.0	
50	QPSK	64	69	21.56	21.65	21.59	23.0	1.0	
50	QPSK	128	0	21.63	21.74	21.67	23.0	1.0	
50	16QAM	1	1	21.28	21.30	21.24			
50	64QAM	1	1	19.77	19.80	19.73			
50	256QAM	1	1	18.55	18.65	18.48	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	(dBm)		
40	QPSK	1	1	22.64	22.77	22.60	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	(dBm)		
30	QPSK	1	1	22.67	22.72	22.65	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)		
25	QPSK	1	1	22.70	22.78	22.65	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	(dBm)		
20	PI2 BPSK	1	1	22.73	22.75	22.69	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)		
15	QPSK	1	1	22.64	22.69	22.58	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	(dBm)		
10	QPSK	1	1	22.68	22.73	22.59	24.0	0.0	



n12 Ant0 Default

BW [MHz]	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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704.5	707.5	708.5		
15	PI/2 BPSK	1	1	22.97	23.02	22.93	24.0	0.0
15	PI/2 BPSK	1	19	22.86	22.89	22.81		
15	PI/2 BPSK	1	36	22.31	22.43	22.43		
15	PI/2 BPSK	18	0	22.49	22.61	22.43	23.5	0.5
15	PI/2 BPSK	18	10	22.91	22.97	22.86	24.0	0.0
15	PI/2 BPSK	18	20	22.34	22.32	22.26	23.5	0.5
15	PI/2 BPSK	36	0	22.44	22.49	22.45		
15	QPSK	1	1	22.97	23.04	23.01		
15	QPSK	1	19	22.81	22.83	22.71	24.0	0.0
15	QPSK	1	36	22.36	22.47	22.45		
15	QPSK	18	0	22.06	22.13	21.98		
15	QPSK	18	10	22.94	22.98	22.90	24.0	0.0
15	QPSK	18	20	21.70	21.81	21.79	23.0	1.0
15	QPSK	36	0	21.92	22.01	21.96		
15	16QAM	1	1	21.64	21.78	21.81		
15	64QAM	1	1	20.15	20.26	20.19	21.5	2.5
	256QAM	1	1	18.99	18.97	18.89	19.5	4.5
Channel				140800	141500	142200	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	QPSK	1	1	22.90	22.98	22.88	24.0	0.0

n14 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158600			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				793				
10	PI/2 BPSK	1	1		23.25		24.0	0.0
10	PI/2 BPSK	1	12		23.19			
10	PI/2 BPSK	1	22		23.12			
10	PI/2 BPSK	12	0		22.92		23.5	0.5
10	PI/2 BPSK	12	6		23.21		24.0	0.0
10	PI/2 BPSK	12	12		22.79		23.5	0.5
10	PI/2 BPSK	24	0		22.76			
10	QPSK	1	1		23.30			
10	QPSK	1	12		23.18		24.0	0.0
10	QPSK	1	22		23.09			
10	QPSK	12	0		22.41		23.0	1.0
10	QPSK	12	6		23.23		24.0	0.0
10	QPSK	12	12		22.20		23.0	1.0
10	QPSK	24	0		22.27			
10	16QAM	1	1		21.96		23.0	1.0
10	64QAM	1	1		20.52		21.5	2.5
10	256QAM	1	1		19.18		19.5	4.5

n25 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374000	376500	379000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1870	1892.5	1895		
40	PI/2 BPSK	1	1	23.05	23.08	23.10	24.0	0.0
40	PI/2 BPSK	1	53	23.00	23.12	23.00		
40	PI/2 BPSK	1	104	22.81	23.01	22.85		
40	PI/2 BPSK	50	0	22.48	22.64	22.45	23.5	0.5
40	PI/2 BPSK	50	28	23.05	23.14	22.91	24.0	0.0
40	PI/2 BPSK	50	56	22.45	22.45	22.46	23.5	0.5
40	PI/2 BPSK	100	0	22.44	22.61	22.54		
40	QPSK	1	1	23.13	23.18	23.05		
40	QPSK	1	53	23.03	23.14	23.09	24.0	0.0
40	QPSK	1	104	22.82	23.06	23.00		
40	QPSK	50	0	22.11	22.16	22.04	23.0	1.0
40	QPSK	50	28	23.06	23.09	23.08	24.0	0.0
40	QPSK	50	56	21.90	22.14	22.06	23.0	1.0
40	QPSK	100	0	22.07	22.10	22.01		
40	16QAM	1	1	21.62	21.67	21.67	23.0	1.0
40	64QAM	1	1	20.27	20.29	20.30	21.5	2.5
40	256QAM	1	1	18.86	18.95	18.69	19.5	4.5
Channel				373000	376500	380000	Tune-up limit	MPR
Frequency (MHz)				1865	1892.5	1900	(dBm)	(dB)
30	QPSK	1	1	23.00	23.12	23.02	24.0	0.0
Channel				372500	376500	380500	Tune-up limit	MPR
Frequency (MHz)				1862.5	1892.5	1902.5	(dBm)	(dB)
25	QPSK	1	1	23.02	23.04	23.00	24.0	0.0
Channel				372000	376500	381000	Tune-up limit	MPR
Frequency (MHz)				1860	1892.5	1905	(dBm)	(dB)
20	QPSK	1	1	23.09	23.16	23.17	24.0	0.0
Channel				371500	376500	381500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1892.5	1907.5	(dBm)	(dB)
15	QPSK	1	1	23.07	23.14	22.82	24.0	0.0
Channel				371000	376500	382000	Tune-up limit	MPR
Frequency (MHz)				1855	1892.5	1910	(dBm)	(dB)
10	QPSK	1	1	23.15	23.07	22.95	24.0	0.0



n26 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.98	23.01	22.94	24.0	0.0	
20	PI2 BPSK	1	26	22.83	22.84	22.80			
20	PI2 BPSK	1	49	22.75	22.75	22.73			
20	PI2 BPSK	25	0	22.41	22.52	22.41	23.5	0.5	
20	PI2 BPSK	25	13	22.86	22.96	22.78	24.0	0.0	
20	PI2 BPSK	25	26	22.24	22.36	22.26	23.5	0.5	
20	PI2 BPSK	50	0	22.22	22.43	22.31			
20	QPSK	1	1	22.98	23.04	22.92			
20	QPSK	1	26	22.68	22.78	22.63	24.0	0.0	
20	QPSK	1	49	22.85	22.66	22.67			
20	QPSK	25	0	21.80	21.98	21.93	23.0	1.0	
20	QPSK	25	13	22.90	22.94	22.85	24.0	0.0	
20	QPSK	25	26	21.66	21.80	21.77	23.0	1.0	
20	QPSK	50	0	21.84	21.87	21.82	23.0	1.0	
20	16QAM	1	1	21.69	21.79	21.73			
20	64QAM	1	1	20.27	20.26	20.20	21.5	2.5	
20	256QAM	1	1	18.74	18.92	18.86	19.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.81	22.99	22.90	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.85	22.96	22.86	24.0	0.0	

n30 Ant0 Default									
BW [MHz]	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	PI2 BPSK	1	1		23.42		24.0	0.0	
10	PI2 BPSK	1	12		23.38				
10	PI2 BPSK	1	22		23.33				
10	PI2 BPSK	12	0		23.02		23.5	0.5	
10	PI2 BPSK	12	6		23.30		24.0	0.0	
10	PI2 BPSK	12	12		23.03		23.5	0.5	
10	PI2 BPSK	24	0		22.93				
10	QPSK	1	1		23.45				
10	QPSK	1	12		23.42		24.0	0.0	
10	QPSK	1	22		23.37				
10	QPSK	12	0		22.48		23.0	1.0	
10	QPSK	12	6		23.42		24.0	0.0	
10	QPSK	12	12		22.35		23.0	1.0	
10	QPSK	24	0		22.41		23.0	1.0	
10	16QAM	1	1		21.98				
10	64QAM	1	1		20.50		21.5	2.5	
10	256QAM	1	1		19.26		19.5	4.5	

n66 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	23.08	23.11	23.00	24.0	0.0	
40	PI2 BPSK	1	53	23.04	23.02	23.01			
40	PI2 BPSK	1	104	22.86	23.00	22.99			
40	PI2 BPSK	50	0	22.50	22.63	22.56	23.5	0.5	
40	PI2 BPSK	50	26	22.96	23.07	23.06	24.0	0.0	
40	PI2 BPSK	50	56	22.46	22.66	22.44	23.5	0.5	
40	PI2 BPSK	100	0	22.51	22.60	22.60			
40	QPSK	1	1	23.06	23.16	23.05			
40	QPSK	1	53	23.03	23.04	22.95	24.0	0.0	
40	QPSK	1	104	23.02	23.10	22.96			
40	QPSK	50	0	21.91	22.19	22.03	23.0	1.0	
40	QPSK	50	26	23.08	23.13	23.08	24.0	0.0	
40	QPSK	50	56	21.97	22.13	22.07	23.0	1.0	
40	QPSK	100	0	22.06	22.19	22.15			
40	16QAM	1	1	21.70	21.83	21.90	23.0	1.0	
40	64QAM	1	1	20.29	20.49	20.39	21.5	2.5	
40	256QAM	1	1	18.84	18.89	18.85	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.08	23.15	23.02	24.0	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	23.05	23.09	22.92	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	23.03	23.05	22.91	24.0	0.0	
Channel				343600	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.13	23.06	23.01	24.0	0.0	
Channel				343200	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.98	23.16	23.08	24.0	0.0	

n70 Ant0 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				340590				
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	23.20			24.0	0.0
15	PI2 BPSK	1	19	23.15				
15	PI2 BPSK	1	36	23.12				
15	PI2 BPSK	18	0	22.62			23.5	0.5
15	PI2 BPSK	18	10	23.14			24.0	0.0
15	PI2 BPSK	18	20	22.62			23.5	0.5
15	PI2 BPSK	36	0	22.67				
15	QPSK	1	1	23.23				
15	QPSK	1	19	23.19			24.0	0.0
15	QPSK	1	36	23.17			23.0	1.0
15	QPSK	18	0	22.07				
15	QPSK	18	10	23.16			24.0	0.0
15	QPSK	18	20	22.14			23.0	1.0
15	QPSK	36	0	22.20				
15	16QAM	1	1	21.84			23.0	1.0
15	64QAM	1	1	20.31			21.5	2.5
15	256QAM	1	1	18.85			19.5	4.5
Channel				340000	340590	341000	Tune-up limit	MPR
Frequency (MHz)				1700	1702.5	1705	(dBm)	(dB)
10	QPSK	1	1	23.10	23.13	23.05	24.0	0.0

n71 Ant0 Default								
BW [MHz]	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	22.88	22.95	22.93	24.0	0.0
20	PI2 BPSK	1	26	22.82	22.84	22.83		
20	PI2 BPSK	1	49	22.76	22.93	22.77		
20	PI2 BPSK	25	0	22.48	22.60	22.62	23.5	0.5
20	PI2 BPSK	25	13	22.89	23.07	23.98	24.0	0.0
20	PI2 BPSK	25	26	22.45	22.57	22.56	23.5	0.5
20	PI2 BPSK	50	0	22.41	22.58	22.54		
20	QPSK	1	1	23.05	23.09	23.01	24.0	
20	QPSK	1	26	22.88	22.93	22.86		
20	QPSK	1	49	22.82	22.92	22.86	23.0	1.0
20	QPSK	25	0	22.03	22.06	21.87		
20	QPSK	25	13	22.94	23.04	22.98	24.0	0.0
20	QPSK	25	26	21.88	21.98	21.93	23.0	1.0
20	QPSK	50	0	22.00	22.03	22.02		
20	16QAM	1	1	21.51	21.61	21.57	23.0	1.0
20	64QAM	1	1	20.18	20.23	20.19	21.5	2.5
20	256QAM	1	1	18.90	18.93	18.91	19.5	4.5
Channel				134100	136100	138100	Tune-up limit	MPR
Frequency (MHz)				670.5	680.5	690.5	(dbm)	(db)
15	QPSK	1	1	23.08	23.07	22.84	24.0	0.0
Channel				133600	136100	138600	Tune-up limit	MPR
Frequency (MHz)				666	680.5	693	(dbm)	(db)
10	QPSK	1	1	22.94	22.95	22.80	24.0	0.0



n38 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	518000	519998	24.0	0.0	
Frequency (MHz)				2580.02	2595	2599.98			
40	PV2 BPSK	1	1	22.91	22.93	22.98	24.0	0.0	
40	PV2 BPSK	1	108	22.85	22.95	22.81			
40	PV2 BPSK	1	214	22.86	23.00	22.88	23.5	0.5	
40	PV2 BPSK	108	0	22.37	22.45	22.44			
40	PV2 BPSK	108	54	22.98	22.97	22.76	24.0	0.0	
40	PV2 BPSK	108	108	22.41	22.47	22.43	23.5	0.5	
40	PV2 BPSK	216	0	22.32	22.53	22.37			
40	QPSK	1	1	22.97	23.02	22.91	24.0	0.0	
40	QPSK	1	108	22.93	22.98	22.86			
40	QPSK	1	214	22.70	22.87	22.78	23.0	1.0	
40	QPSK	108	0	21.95	21.99	21.83			
40	QPSK	108	54	22.93	22.98	22.89	24.0	0.0	
40	QPSK	108	108	21.85	21.99	21.86	23.0	1.0	
40	QPSK	216	0	21.84	22.03	22.02			
40	16QAM	1	1	21.70	21.73	21.52	23.0	1.0	
40	64QAM	1	1	20.04	20.15	20.10	21.5	2.5	
40	256QAM	1	1	18.70	18.73	18.62	19.5	4.5	
Channel				517002	518000	520998	24.0	0.0	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.84	22.88	22.87	24.0	0.0	
Channel				516504	518000	521498	24.0	0.0	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	22.83	22.95	22.90	24.0	0.0	
Channel				515000	518000	522000	24.0	0.0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.99	22.98	22.91	24.0	0.0	
Channel				515502	518000	522498	24.0	0.0	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.92	23.00	22.97	24.0	0.0	
Channel				515004	518000	522998	24.0	0.0	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	23.01	22.94	22.93	24.0	0.0	
Channel				514500	518000	523500	24.0	0.0	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	1	22.83	22.90	22.88	22.0	1.0	

n41 PC3 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502004	518598	535998	24.0	0.0	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PV2 BPSK	1	1	22.53	22.64	22.57	24.0	0.0	
50	PV2 BPSK	1	135	22.40	22.58	22.43			
50	PV2 BPSK	1	268	22.51	22.52	22.50	24.0	0.0	
50	PV2 BPSK	135	0	22.59	22.62	22.57			
50	PV2 BPSK	135	68	22.63	22.67	22.51	24.0	0.0	
50	PV2 BPSK	135	135	22.65	22.72	22.61	24.0	0.0	
50	PV2 BPSK	270	0	22.59	22.70	22.63			
50	QPSK	1	1	22.63	22.75	22.69	24.0	0.0	
50	QPSK	1	135	22.61	22.66	22.54			
50	QPSK	1	268	22.58	22.69	22.55	24.0	0.0	
50	QPSK	135	0	22.60	22.65	22.66			
50	QPSK	135	68	22.61	22.69	22.66	24.0	0.0	
50	QPSK	135	135	22.44	22.58	22.54	24.0	0.0	
50	QPSK	270	0	22.54	22.62	22.57			
50	16QAM	1	1	22.28	22.37	22.35	24.0	0.0	
50	64QAM	1	1	22.10	22.18	22.08	24.0	0.0	
50	256QAM	1	1	21.12	21.19	21.12	22.5	1.5	
Channel				503202	518598	537000	24.0	0.0	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.43	22.59	22.48	24.0	0.0	
Channel				502200	518598	534996	24.0	0.0	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.47	22.61	22.51	24.0	0.0	
Channel				501204	518598	535998	24.0	0.0	
Frequency (MHz)				2506.02	2592.99	2676.99			
20	QPSK	1	1	22.50	22.60	22.70	24.0	0.0	
Channel				500700	518598	536496	24.0	0.0	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.57	22.70	22.63	24.0	0.0	
Channel				500202	518598	537000	24.0	0.0	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.43	22.64	22.47	24.0	0.0	

n41 PC2 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504004	518598	535998	27.0	0.0	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PV2 BPSK	1	1	25.61	25.68	25.64	27.0	0.0	
50	PV2 BPSK	1	135	25.51	25.61	25.50			
50	PV2 BPSK	1	268	25.53	25.57	25.48	26.5	0.5	
50	PV2 BPSK	135	0	25.02	25.12	25.00			
50	PV2 BPSK	135	68	25.60	25.72	25.58	27.0	0.0	
50	PV2 BPSK	135	135	25.22	25.30	25.12	26.5	0.5	
50	PV2 BPSK	270	0	25.09	25.25	25.13			
50	QPSK	1	1	25.85	26.75	25.70	27.0	0.0	
50	QPSK	1	135	25.82	25.86	25.58			
50	QPSK	1	268	25.52	25.63	25.45	26.0	1.0	
50	QPSK	135	0	24.52	24.72	24.70			
50	QPSK	135	68	25.62	25.72	25.67	27.0	0.0	
50	QPSK	135	135	24.86	24.75	24.71	26.0	1.0	
50	QPSK	270	0	24.71	24.76	24.67			
50	16QAM	1	1	24.19	24.22	24.14	26.0	1.0	
50	64QAM	1	1	22.57	22.73	22.65	24.5	2.5	
50	256QAM	1	1	21.14	21.29	21.25	22.5	4.5	
Channel				503202	518598	537000	27.0	0.0	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.50	25.66	25.60	27.0	0.0	
Channel				502200	518598	534996	27.0	0.0	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.59	25.68	25.67	27.0	0.0	
Channel				501204	518598	535998	27.0	0.0	
Frequency (MHz)				2506.02	2592.99	2676.99			
20	QPSK	1	1	25.61	25.72	25.65	27.0	0.0	
Channel				500700	518598	536496	27.0	0.0	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	25.50	25.61	25.56	27.0	0.0	
Channel				500202	518598	537000	27.0	0.0	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	25.56	25.62	25.49	27.0	0.0	



n2 Ant1 Default

BW [MHz]	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	24.0	0.0
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	22.59	22.70	22.72		
40	PI2 BPSK	1	53	22.59	22.63	22.59	23.5	0.5
40	PI2 BPSK	1	104	22.48	22.61	22.41		
40	PI2 BPSK	50	0	22.07	22.12	21.85		
40	PI2 BPSK	50	28	22.51	22.58	22.36	24.0	0.0
40	PI2 BPSK	50	56	22.03	22.11	22.13	23.5	0.5
40	PI2 BPSK	100	0	21.99	22.10	22.02	24.0	0.0
40	QPSK	1	1	22.57	22.74	22.71		
40	QPSK	1	53	22.57	22.71	22.62		
40	QPSK	1	104	22.45	22.61	22.58	23.0	1.0
40	QPSK	50	0	21.45	21.59	21.53		
40	QPSK	50	28	22.80	22.65	22.57		
40	QPSK	50	56	21.48	21.58	21.56	23.0	1.0
40	QPSK	100	0	21.58	21.53	21.45	23.0	1.0
40	16QAM	1	1	21.15	21.13	21.14		
40	64QAM	1	1	19.85	19.83	19.73		
40	256QAM	1	1	18.21	18.35	18.30	19.5	4.5
Channel				372000	376000	375000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1865	1880	1895		
30	QPSK	1	1	22.52	22.66	22.65	24.0	0.0
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1902.5	1910	1897.5		
25	QPSK	1	1	22.51	22.70	22.60	24.0	0.0
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	1	22.49	22.62	22.57	19.0	2.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1857.5	1880	1900.5		
15	QPSK	1	1	22.46	22.63	22.59	22.0	1.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.60	22.70	22.62	24.0	0.0

n5 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.78	22.81	22.71		
20	PI2 BPSK	1	28	22.78	22.77	22.73	23.5	0.5
20	PI2 BPSK	1	49	22.71	22.71	22.51		
20	PI2 BPSK	25	0	22.30	22.38	22.21		
20	PI2 BPSK	25	13	22.65	22.84	22.71	24.0	0.0
20	PI2 BPSK	25	28	22.14	22.29	22.09	23.5	0.5
20	PI2 BPSK	50	0	22.28	22.30	22.22	24.0	0.0
20	QPSK	1	1	22.82	22.87	22.78		
20	QPSK	1	28	22.68	22.72	22.65		
20	QPSK	1	49	22.53	22.69	22.63	23.0	1.0
20	QPSK	25	0	21.78	21.84	21.74		
20	QPSK	25	13	22.80	22.82	22.77		
20	QPSK	25	28	21.63	21.72	21.67	23.0	1.0
20	QPSK	50	0	21.75	21.80	21.76	23.0	1.0
20	16QAM	1	1	21.45	21.50	21.41		
20	64QAM	1	1	19.76	19.98	19.78		
20	256QAM	1	1	18.49	18.81	18.53	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.67	22.84	22.69	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.70	22.80	22.64	24.0	0.0

n7 Ant1 Default

BW [MHz]	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	507000	509000	24.0	0.0
Frequency (MHz)				2505	2535	2545		
50	PI2 BPSK	1	1	23.23	23.31	23.22		
50	PI2 BPSK	1	67	23.17	23.23	23.15	24.0	0.0
50	PI2 BPSK	1	131	23.22	23.27	23.12		
50	PI2 BPSK	64	0	22.68	22.89	22.69	23.5	0.5
50	PI2 BPSK	64	35	23.13	23.26	23.23	24.0	0.0
50	PI2 BPSK	64	69	22.89	22.91	22.72	23.5	0.5
50	PI2 BPSK	128	0	22.75	22.97	22.97	24.0	0.0
50	QPSK	1	1	23.26	23.34	23.30		
50	QPSK	1	67	23.20	23.27	23.17		
50	QPSK	1	131	23.08	23.23	23.21	23.0	1.0
50	QPSK	64	0	22.23	22.37	22.15		
50	QPSK	64	35	23.20	23.31	23.26		
50	QPSK	64	69	22.21	22.30	22.24	23.0	1.0
50	QPSK	128	0	22.27	22.36	22.32	23.0	1.0
50	16QAM	1	1	21.76	21.80	21.73		
50	64QAM	1	1	20.25	20.32	20.15		
50	256QAM	1	1	18.92	19.10	19.01	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2500	2535	2550		
40	QPSK	1	1	23.28	23.31	23.09	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.24	23.20	23.32	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.08	23.17	23.29	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	23.21	23.22	23.18	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.21	23.13	23.22	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.12	23.27	23.31	24.0	0.0



n12 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141350	141500	141700	24.0	0.0
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.92	23.02	23.00		
15	PI2 BPSK	1	19	22.83	22.97	22.93		
15	PI2 BPSK	1	36	22.96	22.96	22.61	23.5	0.5
15	PI2 BPSK	18	0	22.41	22.55	22.28	24.0	0.0
15	PI2 BPSK	18	10	22.91	22.96	22.84	23.5	0.5
15	PI2 BPSK	18	20	22.35	22.46	22.24	24.0	0.0
15	PI2 BPSK	36	0	22.35	22.47	22.36	23.0	1.0
15	QPSK	1	1	23.05	23.06	23.01	24.0	0.0
15	QPSK	1	19	22.91	22.96	22.75	23.0	1.0
15	QPSK	1	36	22.70	22.80	22.75	23.0	1.0
15	QPSK	18	0	21.83	21.97	21.89	24.0	0.0
15	QPSK	18	10	22.89	22.97	22.96	23.0	1.0
15	QPSK	18	20	21.51	21.86	21.77	23.0	1.0
15	QPSK	36	0	21.88	22.00	21.96	23.0	1.0
15	16QAM	1	1	21.58	21.63	21.48	23.0	1.0
15	64QAM	1	1	20.11	20.20	20.06	21.5	2.5
15	256QAM	1	1	18.64	18.80	18.77	19.5	4.5
Channel				142000	141500	142000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.90	22.96	22.94	24.0	0.0

n14 Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158600	158600	158600	24.0	0.0
Frequency (MHz)				793	793	793		
10	PI2 BPSK	1	1	22.84	22.84	22.84		
10	PI2 BPSK	1	12	22.74	22.74	22.74		
10	PI2 BPSK	1	28	22.77	22.77	22.77	23.5	0.5
10	PI2 BPSK	12	0	22.45	22.45	22.45	24.0	0.0
10	PI2 BPSK	12	6	22.79	22.79	22.79	23.5	0.5
10	PI2 BPSK	12	12	22.40	22.40	22.40	24.0	0.0
10	PI2 BPSK	24	0	22.36	22.36	22.36	23.0	1.0
10	QPSK	1	1	22.86	22.86	22.86	24.0	0.0
10	QPSK	1	12	22.75	22.75	22.75	23.0	1.0
10	QPSK	1	22	22.72	22.72	22.72	23.0	1.0
10	QPSK	12	0	21.98	21.98	21.98	24.0	0.0
10	QPSK	12	6	22.75	22.75	22.75	23.0	1.0
10	QPSK	12	12	21.76	21.76	21.76	23.0	1.0
10	QPSK	24	0	21.80	21.80	21.80	23.0	1.0
10	16QAM	1	1	21.54	21.54	21.54	23.0	1.0
10	64QAM	1	1	20.12	20.12	20.12	21.5	2.5
10	256QAM	1	1	18.46	18.46	18.46	19.5	4.5

n25 Ant1 Default

BW [MHz]	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	376500	376500	24.0	0.0
Frequency (MHz)				1870	1882.5	1895		
40	PI2 BPSK	1	1	23.06	23.08	23.04		
40	PI2 BPSK	1	53	23.09	23.07	22.94		
40	PI2 BPSK	1	104	22.93	23.09	22.93	23.5	0.5
40	PI2 BPSK	50	0	22.25	22.38	22.26	24.0	0.0
40	PI2 BPSK	50	26	22.87	22.92	22.82	23.5	0.5
40	PI2 BPSK	50	56	22.35	22.32	22.20	24.0	0.0
40	PI2 BPSK	100	0	22.17	22.34	22.37	23.0	1.0
40	QPSK	1	1	23.11	23.12	23.06	24.0	0.0
40	QPSK	1	53	23.10	23.07	23.03	23.0	1.0
40	QPSK	50	0	21.74	21.82	21.73	24.0	0.0
40	QPSK	50	26	22.89	22.92	22.90	23.0	1.0
40	QPSK	50	56	21.74	21.79	21.66	23.0	1.0
40	QPSK	100	0	21.82	21.96	21.93	23.0	1.0
40	16QAM	1	1	21.63	21.69	21.55	23.0	1.0
40	64QAM	1	1	20.07	20.16	20.04	21.5	2.5
40	256QAM	1	1	18.75	18.81	18.65	19.5	4.5
Channel				376500	376500	376500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1895	1892.5	1900		
30	QPSK	1	1	23.06	22.99	22.97	24.0	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1920.5	1920.5	1920.5		
25	QPSK	1	1	23.00	22.97	23.00	24.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1886	1882.5	1905		
20	QPSK	1	1	23.04	23.07	23.01	24.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1872.5	1882.5	1907.5		
15	QPSK	1	1	22.98	23.04	22.94	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	23.01	23.08	22.92	24.0	0.0



n26 Ant1 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.89	22.88	22.77		
20	PI2 BPSK	1	26	22.82	22.89	22.87	23.5	0.5
20	PI2 BPSK	1	49	22.84	22.95	22.94		
20	PI2 BPSK	25	0	22.38	22.53	22.52		
20	PI2 BPSK	25	13	22.91	22.99	22.79	24.0	0.0
20	PI2 BPSK	25	26	22.35	22.49	22.30	23.5	0.5
20	PI2 BPSK	50	0	22.48	22.48	22.35		
20	QPSK	1	1	23.00	23.05	22.96		
20	QPSK	1	26	22.86	22.92	22.89	24.0	0.0
20	QPSK	1	49	22.85	22.88	22.74	23.0	1.0
20	QPSK	25	0	21.89	21.95	21.76		
20	QPSK	25	13	22.88	22.99	22.94		
20	QPSK	25	26	21.82	21.89	21.76	23.0	1.0
20	QPSK	50	0	21.88	21.95	21.92		
20	16QAM	1	1	21.55	21.61	21.58		
20	64QAM	1	1	19.96	20.13	19.94	21.5	2.5
20	256QAM	1	1	18.68	18.74	18.62	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.79	22.93	22.87	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844	24.0	0.0
10	QPSK	1	1	22.94	22.99	22.92		

n30 Ant1 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				460000			24.0	0.0
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	23.16				
10	PI2 BPSK	1	12	23.11			23.5	0.5
10	PI2 BPSK	1	22	23.05				
10	PI2 BPSK	12	0	22.70				
10	PI2 BPSK	12	6	23.15			24.0	0.0
10	PI2 BPSK	12	12	22.60			23.5	0.5
10	PI2 BPSK	24	0	22.67				
10	QPSK	1	1	23.20				
10	QPSK	1	12	23.13			24.0	0.0
10	QPSK	1	22	23.09				
10	QPSK	12	0	22.19				
10	QPSK	12	6	23.13			23.0	1.0
10	QPSK	12	12	22.06			23.0	1.0
10	QPSK	24	0	22.11				
10	16QAM	1	1	21.74			23.0	1.0
10	64QAM	1	1	20.32			21.5	2.5
10	256QAM	1	1	19.04			19.5	4.5

n66 Ant1 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	24.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	23.10	23.19	23.17		
40	PI2 BPSK	1	53	23.08	23.13	23.10	23.5	0.5
40	PI2 BPSK	1	104	22.95	23.11	23.11		
40	PI2 BPSK	50	0	22.70	22.89	22.86		
40	PI2 BPSK	50	28	22.93	23.13	23.11	24.0	0.0
40	PI2 BPSK	50	56	22.64	22.76	22.61	23.5	0.5
40	PI2 BPSK	100	0	22.74	22.80	22.71		
40	QPSK	1	1	23.13	23.26	23.17		
40	QPSK	1	53	23.18	23.11	23.15	24.0	0.0
40	QPSK	1	104	23.01	23.10	22.93	23.0	1.0
40	QPSK	50	0	22.08	22.19	22.09		
40	QPSK	50	28	23.12	23.23	23.21		
40	QPSK	50	56	22.13	22.14	22.12	23.0	1.0
40	QPSK	100	0	22.10	22.20	22.11		
40	16QAM	1	1	21.87	21.95	21.82	23.0	1.0
40	64QAM	1	1	20.40	20.47	20.37	21.5	2.5
40	256QAM	1	1	18.78	18.91	18.84	19.5	4.5
Channel				345800	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	24.0	0.0
30	QPSK	1	1	23.02	23.13	23.11		
Channel				344900	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0
25	QPSK	1	1	22.99	23.06	23.01		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	24.0	0.0
20	QPSK	1	1	22.97	23.06	23.07		
Channel				343600	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1772.5	24.0	0.0
15	QPSK	1	1	22.93	23.09	22.95		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	24.0	0.0
10	QPSK	1	1	22.96	23.09	22.98		

n70 Ant1 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				340500			24.0	0.0
Frequency (MHz)				1702.5				
15	PI/2 BPSK	1	1		23.05		24.0	0.0
15	PI/2 BPSK	1	19		23.01			
15	PI/2 BPSK	1	36		22.97		23.5	0.5
15	PI/2 BPSK	18	0		22.50			
15	PI/2 BPSK	18	10		23.01		24.0	0.0
15	PI/2 BPSK	18	20		22.40			
15	PI/2 BPSK	36	0		22.45		23.5	0.5
15	QPSK	1	1		23.10			
15	QPSK	1	19		23.00		24.0	0.0
15	QPSK	1	36		23.05			
15	QPSK	18	0		21.95		23.0	1.0
15	QPSK	18	10		23.08			
15	QPSK	18	20		21.91		23.0	1.0
15	QPSK	36	0		21.97			
15	16QAM	1	1		21.65		23.0	1.0
15	64QAM	1	1		20.19			
15	256QAM	1	1		18.79		19.5	4.5
Channel				340500	340500			
Frequency (MHz)				1700	1702.5	1705	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.97	23.02	22.91	24.0	0.0

n71 Ant1 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				138600	138100	137600	24.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	22.94	22.93	22.91	24.0	0.0
20	PI/2 BPSK	1	26	22.84	22.95	22.90		
20	PI/2 BPSK	1	49	22.70	22.95	22.79	23.5	0.5
20	PI/2 BPSK	25	0	22.37	22.49	22.53		
20	PI/2 BPSK	25	13	22.84	22.97	22.87	24.0	0.0
20	PI/2 BPSK	25	26	22.23	22.39	22.20		
20	PI/2 BPSK	50	0	22.36	22.45	22.45	23.5	0.5
20	QPSK	1	1	22.92	23.04	22.93		
20	QPSK	1	26	23.01	22.98	22.89	24.0	0.0
20	QPSK	1	49	22.78	22.87	22.84		
20	QPSK	25	0	21.83	21.99	21.92	23.0	1.0
20	QPSK	25	13	22.78	23.00	22.88		
20	QPSK	25	26	21.76	21.88	21.86	23.0	1.0
20	QPSK	50	0	21.78	21.94	21.88		
20	16QAM	1	1	21.52	21.60	21.51	23.0	1.0
20	64QAM	1	1	20.13	20.26	20.14		
20	256QAM	1	1	18.63	18.58	18.47	19.5	4.5
Channel				138100	137100	136100		
Frequency (MHz)				670.5	680.5	690.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.79	22.99	22.85	24.0	0.0
Channel				138600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				688	680.5	693	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.89	22.93	22.84	24.0	0.0



n38 Ant1 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	24.0	0.0
Frequency (MHz)				2580.02	2595	2599.98		
40	PI2 BPSK	1	1	22.83	22.99	22.91		
40	PI2 BPSK	1	108	22.89	22.94	22.91	23.5	0.5
40	PI2 BPSK	1	214	22.73	22.91	22.86		
40	PI2 BPSK	108	0	22.26	22.41	22.37		
40	PI2 BPSK	108	54	22.98	22.97	22.85	24.0	0.0
40	PI2 BPSK	108	108	22.27	22.46	22.32	23.5	0.5
40	PI2 BPSK	216	0	22.44	22.59	22.39		
40	QPSK	1	1	22.93	23.01	22.90		
40	QPSK	1	108	22.79	22.80	22.68	24.0	0.0
40	QPSK	1	214	22.77	22.82	22.77		
40	QPSK	108	0	21.72	21.84	21.70		
40	QPSK	108	54	22.81	22.88	22.87	23.0	1.0
40	QPSK	108	108	21.76	21.86	21.87		
40	QPSK	216	0	21.85	21.85	21.83		
40	16QAM	1	1	21.40	21.52	21.49	23.0	1.0
40	64QAM	1	1	19.84	20.02	20.13	21.5	2.5
40	256QAM	1	1	18.48	18.81	18.61	19.5	4.5
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.86	23.00	22.80	24.0	0.0
Channel				516504	518000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
20	QPSK	1	1	22.89	22.92	22.83	24.0	0.0
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.87	22.86	22.81	24.0	0.0
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.95	23.00	22.83	24.0	0.0
Channel				515004	518000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.89	22.95	22.80	24.0	0.0
Channel				514502	518000	523500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	1	22.83	22.92	22.89	22.0	1.0

n41 PC3 Ant1 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502004	518598	535998	24.0	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	22.63	22.74	22.72		
50	PI2 BPSK	1	135	22.56	22.69	22.55	24.0	0.0
50	PI2 BPSK	1	268	22.86	22.68	22.61		
50	PI2 BPSK	135	0	22.55	22.70	22.52		
50	PI2 BPSK	135	68	22.75	22.79	22.58	24.0	0.0
50	PI2 BPSK	135	135	22.60	22.66	22.63	24.0	0.0
50	PI2 BPSK	270	0	22.51	22.73	22.54		
50	QPSK	1	1	22.86	22.89	22.81		
50	QPSK	1	135	22.84	22.77	22.68	24.0	0.0
50	QPSK	1	268	22.83	22.86	22.72		
50	QPSK	135	0	22.54	22.75	22.60		
50	QPSK	135	68	22.77	22.85	22.72	24.0	0.0
50	QPSK	135	135	22.64	22.67	22.56	24.0	0.0
50	QPSK	270	0	22.61	22.72	22.28		
50	16QAM	1	1	22.27	22.38	22.33	24.0	0.0
50	64QAM	1	1	22.41	22.48	22.30	24.0	0.0
50	256QAM	1	1	21.48	21.51	21.39	22.5	1.5
Channel				530202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.75	22.81	22.70	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	22.84	22.78	22.60	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2676.99		
20	QPSK	1	1	22.76	22.83	22.70	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	22.75	22.84	22.67	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	22.69	22.79	22.73	24.0	0.0

n41 PC2 Ant1 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504004	518598	535998	27.0	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	25.62	25.71	25.60		
50	PI2 BPSK	1	135	25.49	25.70	25.65	26.5	0.5
50	PI2 BPSK	1	268	25.43	25.57	25.57		
50	PI2 BPSK	135	0	24.86	24.98	25.14		
50	PI2 BPSK	135	68	25.71	25.68	25.52	27.0	0.0
50	PI2 BPSK	135	135	24.99	25.17	25.01	26.5	0.5
50	PI2 BPSK	270	0	25.16	25.29	25.16		
50	QPSK	1	1	25.85	25.77	25.79		
50	QPSK	1	135	25.80	25.64	25.53	27.0	0.0
50	QPSK	1	268	25.51	25.49	25.58		
50	QPSK	135	0	24.58	24.64	24.53		
50	QPSK	135	68	25.64	25.69	25.60	27.0	0.0
50	QPSK	135	135	24.47	24.56	24.51	26.0	1.0
50	QPSK	270	0	24.80	24.64	24.55		
50	16QAM	1	1	24.16	24.17	24.05	26.0	1.0
50	64QAM	1	1	22.54	22.86	22.67	24.5	2.5
50	256QAM	1	1	21.11	21.32	21.32	22.5	4.5
Channel				530202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.84	25.65	25.57	27.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.55	25.73	25.63	27.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2676.99		
20	QPSK	1	1	25.64	25.69	25.51	27.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	25.52	25.71	25.63	27.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	25.58	25.73	25.74	27.0	0.0



n41 PC3 Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504504	518598	535998	24.0	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	22.21	22.33	22.19		
50	PI2 BPSK	1	135	22.19	22.22	22.15		
50	PI2 BPSK	1	268	22.09	22.15	22.01	24.0	0.0
50	PI2 BPSK	135	0	22.16	22.20	22.10		
50	PI2 BPSK	135	68	22.21	22.26	22.06		
50	PI2 BPSK	135	135	22.17	22.13	22.06		
50	PI2 BPSK	270	0	22.07	22.17	22.16	24.0	0.0
50	QPSK	1	1	22.35	22.40	22.25		
50	QPSK	1	135	22.16	22.23	22.12		
50	QPSK	1	268	22.11	22.14	22.09		
50	QPSK	135	0	22.07	22.14	22.13	24.0	0.0
50	QPSK	135	68	22.24	22.33	22.19	24.0	0.0
50	QPSK	135	135	22.06	22.14	22.06	24.0	0.0
50	QPSK	270	0	22.12	22.15	22.12	24.0	0.0
50	16QAM	1	1	22.07	22.15	22.03	24.0	0.0
50	64QAM	1	1	22.03	22.12	22.10	24.0	0.0
50	256QAM	1	1	21.16	21.27	21.10	22.5	1.5
Channel				503502	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.25	22.32	22.18	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	22.23	22.29	22.17	24.0	0.0
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.30	22.35	22.20	24.0	0.0
Channel				500700	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.21	22.32	22.11	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	22.24	22.29	22.12	24.0	0.0

n41 PC2 Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504504	518598	535998	27.0	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	25.15	25.28	25.17		
50	PI2 BPSK	1	135	25.10	25.20	25.13		
50	PI2 BPSK	1	268	25.05	25.15	25.09	26.5	0.5
50	PI2 BPSK	135	0	24.90	24.91	24.85		
50	PI2 BPSK	135	68	25.09	25.14	25.01		
50	PI2 BPSK	135	135	24.82	24.83	24.84		
50	PI2 BPSK	270	0	24.91	24.96	24.73	27.0	0.0
50	QPSK	1	1	25.18	25.30	25.24		
50	QPSK	1	135	25.09	25.30	25.19		
50	QPSK	1	268	25.15	25.23	25.15		
50	QPSK	135	0	24.27	24.50	24.42	26.0	1.0
50	QPSK	135	68	25.24	25.30	25.15	27.0	0.0
50	QPSK	135	135	24.32	24.42	24.38	26.0	1.0
50	QPSK	270	0	24.38	24.52	24.47	26.0	1.0
50	16QAM	1	1	24.05	24.10	24.15	26.0	1.0
50	64QAM	1	1	22.51	22.67	22.63	24.5	2.5
50	256QAM	1	1	21.04	21.15	21.16	22.5	4.5
Channel				503202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.11	25.30	25.19	27.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.04	25.31	25.29	27.0	0.0
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.08	25.20	25.22	27.0	0.0
Channel				500700	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	25.05	25.30	25.28	27.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	25.10	25.24	25.29	27.0	0.0

n48 Part96 Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				636334	641666	646500	24.0	0.0
Frequency (MHz)				3575.01	3624.99	3675		
50	PI2 BPSK	1	1	23.11	23.18	22.97		
50	PI2 BPSK	1	135	22.98	23.12	22.90		
50	PI2 BPSK	1	268	22.92	23.09	23.02	23.5	0.5
50	PI2 BPSK	135	0	22.66	22.68	22.70		
50	PI2 BPSK	135	68	23.02	23.14	23.12		
50	PI2 BPSK	135	135	22.54	22.64	22.54		
50	PI2 BPSK	270	0	22.64	22.70	22.56	24.0	0.0
50	QPSK	1	1	23.13	23.21	23.16		
50	QPSK	1	135	23.09	23.13	23.04		
50	QPSK	1	268	22.92	23.08	23.01		
50	QPSK	135	0	22.21	22.28	22.23	23.0	1.0
50	QPSK	135	68	23.03	23.18	23.08	24.0	0.0
50	QPSK	135	135	22.21	22.26	22.18	23.0	1.0
50	QPSK	270	0	22.15	22.30	22.25	23.0	1.0
50	16QAM	1	1	21.87	21.98	21.93	23.0	1.0
50	64QAM	1	1	20.32	20.53	20.49	21.5	2.5
50	256QAM	1	1	19.09	19.14	19.02	19.5	4.5
Channel				636000	641666	645312	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3570	3624.99	3679.98		
40	QPSK	1	1	23.05	23.16	23.09	24.0	0.0
Channel				637668	641666	645996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3573.72	3624.99	3684.99		
30	QPSK	1	1	22.94	23.12	23.10	24.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3569.01	3624.99	3690		
20	QPSK	1	1	23.04	23.01	22.95	24.0	0.0
Channel				637169	641666	646196	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3567.52	3624.99	3692.49		
15	QPSK	1	1	22.92	23.13	22.95	24.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	23.03	23.11	23.07	24.0	0.0
Channel				636534	641666	646500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.51	3624.99	3697.5		
5	QPSK	1	1	23.05	23.09	23.03	24.0	0.0



Part270 n77 PC3 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				643334	656000	663668	24.0	0.0	
Frequency (MHz)				3725.01	3840	3955.02			
50	PI2 BPSK	1	1	22.70	22.72	22.56	24.0	0.0	
50	PI2 BPSK	1	135	22.55	22.61	22.59			
50	PI2 BPSK	1	268	22.48	22.80	22.42	24.0	0.0	
50	PI2 BPSK	135	0	22.61	22.84	22.58			
50	PI2 BPSK	135	68	22.54	22.73	22.61	24.0	0.0	
50	PI2 BPSK	135	135	22.50	22.61	22.40			
50	PI2 BPSK	270	0	22.61	22.68	22.56	24.0	0.0	
50	QPSK	1	1	22.69	22.76	22.73			
50	QPSK	1	135	22.54	22.58	22.49	24.0	0.0	
50	QPSK	1	268	22.50	22.62	22.50			
50	QPSK	135	0	22.52	22.63	22.46	24.0	0.0	
50	QPSK	135	68	22.64	22.72	22.66			
50	QPSK	135	135	22.59	22.63	22.56	24.0	0.0	
50	QPSK	270	0	22.59	22.67	22.61			
50	16QAM	1	1	22.06	22.16	22.12	24.0	0.0	
50	64QAM	1	1	22.25	22.23	22.15			
50	256QAM	1	1	21.17	21.33	21.14	22.5	1.5	
Channel				643500	656000	664000	24.0	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.52	22.63	22.56	24.0	0.0	
Channel				647668	656000	664334		MPR	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.59	22.69	22.56	24.0	0.0	
Channel				647500	656000	664500		MPR	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.69	22.64	22.74	24.0	0.0	
Channel				647384	656000	664668		MPR	
Frequency (MHz)				3710.81	3840	3970.92			
20	QPSK	1	1	22.59	22.69	22.56	24.0	0.0	
Channel				647168	656000	664834		MPR	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.51	22.61	22.63	24.0	0.0	
Channel				647000	656000	665000		MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.59	22.56	22.67	24.0	0.0	

Part270 n77 PC2 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				643334	656000	663668	27.0	0.0	
Frequency (MHz)				3725.01	3840	3955.02			
50	PI2 BPSK	1	1	25.72	25.76	25.65	27.0	0.0	
50	PI2 BPSK	1	135	25.63	25.72	25.61			
50	PI2 BPSK	1	268	25.68	25.68	25.84	26.5	0.5	
50	PI2 BPSK	135	0	25.19	25.18	25.01			
50	PI2 BPSK	135	68	25.76	25.74	25.66	27.0	0.0	
50	PI2 BPSK	135	135	25.04	25.20	25.11			
50	PI2 BPSK	270	0	25.20	25.24	25.07	26.5	0.5	
50	QPSK	1	1	25.76	25.82	25.72			
50	QPSK	1	135	25.72	25.79	25.67	27.0	0.0	
50	QPSK	1	268	25.64	25.72	25.56			
50	QPSK	135	0	24.48	24.66	24.64	26.0	1.0	
50	QPSK	135	68	25.63	25.75	25.69			
50	QPSK	135	135	24.57	24.62	24.80	26.0	1.0	
50	QPSK	270	0	24.62	24.68	24.84			
50	16QAM	1	1	24.10	24.18	24.15	26.0	1.0	
50	64QAM	1	1	22.60	22.72	22.63		2.5	
50	256QAM	1	1	21.19	21.30	21.16	22.5	4.5	
Channel				643500	656000	664000	27.0	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.64	25.67	25.81	27.0	0.0	
Channel				647668	656000	664334		MPR	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	25.79	25.63	25.65	27.0	0.0	
Channel				647500	656000	664500		MPR	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	25.65	25.71	25.68	27.0	0.0	
Channel				647384	656000	664668		MPR	
Frequency (MHz)				3710.81	3840	3970.92			
20	QPSK	1	1	25.60	25.73	25.74	27.0	0.0	
Channel				647168	656000	664834		MPR	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	25.61	25.64	25.65	27.0	0.0	
Channel				647000	656000	665000		MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.64	25.63	25.53	27.0	0.0	

Part27Q n77 PC3 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				631668	633334	635000	24.0	0.0	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI2 BPSK	1	1	22.75	22.78	22.69	24.0	0.0	
50	PI2 BPSK	1	135	22.59	22.73	22.61			
50	PI2 BPSK	1	268	22.52	22.66	22.64	24.0	0.0	
50	PI2 BPSK	135	0	22.53	22.65	22.61			
50	PI2 BPSK	135	68	22.69	22.73	22.58	24.0	0.0	
50	PI2 BPSK	135	135	22.55	22.63	22.51			
50	PI2 BPSK	270	0	22.60	22.70	22.68	24.0	0.0	
50	QPSK	1	1	22.76	22.82	22.78			
50	QPSK	1	135	22.72	22.77	22.68	24.0	0.0	
50	QPSK	1	268	22.64	22.71	22.61			
50	QPSK	135	0	22.71	22.76	22.66	24.0	0.0	
50	QPSK	135	68	22.72	22.78	22.67			
50	QPSK	135	135	22.56	22.60	22.53	24.0	0.0	
50	QPSK	270	0	22.67	22.68	22.55			
50	16QAM	1	1	22.37	22.42	22.32	24.0	0.0	
50	64QAM	1	1	22.40	22.47	22.39		24.0	
50	256QAM	1	1	21.43	21.56	21.52	22.5	1.5	
Channel				631334	633334	635334	24.0	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.74	22.77	22.56	24.0	0.0	
Channel				631000	633334	635668		MPR (dB)	
Frequency (MHz)				3465	3500.01	3532.02			
30	QPSK	1	1	22.81	22.72	22.71	24.0	0.0	
Channel				630634	633334	635834		MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	22.69	22.80	22.73	24.0	0.0	
Channel				630998	633334	636000		MPR (dB)	
Frequency (MHz)				3460.65	3500.01	3540			
20	QPSK	1	1	22.77	22.62	22.72	24.0	0.0	
Channel				630500	633334	636168		MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	22.77	22.69	22.60	24.0	0.0	
Channel				630334	633334	636334		MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	0.0		
10	QPSK	1	1	22.58	22.76	22.63	24.0	0.0	



Part27Q n77 PC2 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3475.02	3500.01	3525	27.0	0.0	
Frequency (MHz)				631668	633334	635000			
50	PI2 BPSK	1	1	25.74	25.79	25.68	27.0	0.0	
50	PI2 BPSK	1	135	25.72	25.73	25.54			
50	PI2 BPSK	1	268	25.51	25.56	25.46	26.5	0.5	
50	PI2 BPSK	135	0	25.33	25.40	25.31			
50	PI2 BPSK	135	68	25.64	25.76	25.56	27.0	0.0	
50	PI2 BPSK	135	135	25.05	25.22	25.05			
50	PI2 BPSK	270	0	25.26	25.30	25.19	27.0	0.0	
50	QPSK	1	1	25.71	25.85	25.76			
50	QPSK	1	135	25.61	25.66	25.54	27.0	0.0	
50	QPSK	1	268	25.31	25.52	25.38			
50	QPSK	135	0	24.62	24.88	24.74	28.0	1.0	
50	QPSK	135	68	25.62	25.74	25.68			
50	QPSK	135	135	24.69	24.76	24.72	28.0	1.0	
50	QPSK	270	0	24.78	24.83	24.71			
50	16QAM	1	1	24.42	24.47	24.39	28.0	1.0	
50	16QAM	1	1	22.96	23.02	22.93		24.5	
50	256QAM	1	1	21.52	21.62	21.56	22.5	4.5	
Channel				631224	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01	27.0	0.0	
40	QPSK	1	1	25.62	25.70	25.69			
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	25.59	25.67	25.62	27.0	0.0	
Channel				630834	633334	635834			
Frequency (MHz)				3462.51	3500.01	3537.51	Tune-up limit (dBm)	MPR	
25	QPSK	1	1	25.57	25.78	25.69			
Channel				630996	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	25.54	25.77	25.75	27.0	0.0	
Channel				630900	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	25.01	26.81	25.75			
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	25.67	25.80	25.76	27.0	0.0	

Part27Q n78 PC3 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3725.01	3750	3775.02	24.0	0.0	
Frequency (MHz)				646334	650000	653668			
50	PI2 BPSK	1	1	22.92	22.95	22.88	24.0	0.0	
50	PI2 BPSK	1	135	22.87	22.90	22.80			
50	PI2 BPSK	1	268	22.79	22.85	22.78	23.5	0.5	
50	PI2 BPSK	135	0	22.31	22.45	22.23			
50	PI2 BPSK	135	68	22.84	22.91	22.75	24.0	0.0	
50	PI2 BPSK	135	135	22.24	22.36	22.28			
50	PI2 BPSK	270	0	22.37	22.42	22.30	23.5	0.5	
50	QPSK	1	1	22.96	22.98	22.83			
50	QPSK	1	135	22.81	22.88	22.84	24.0	0.0	
50	QPSK	1	268	22.69	22.80	22.80			
50	QPSK	135	0	21.97	22.05	21.94	23.0	1.0	
50	QPSK	135	68	22.80	22.85	22.82			
50	QPSK	135	135	21.85	22.01	21.86	23.0	1.0	
50	QPSK	270	0	21.98	22.05	21.91			
50	16QAM	1	1	21.61	21.64	21.53	23.0	1.0	
50	16QAM	1	1	20.14	20.20	20.04		21.5	
50	256QAM	1	1	18.69	18.80	18.62	19.5	4.5	
Channel				646000	650000	654000			
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	22.95	22.87	22.76			
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3713.02	3750	3765.01			
30	QPSK	1	1	22.80	22.97	22.90	24.0	0.0	
Channel				647500	650000	652500			
Frequency (MHz)				3712.5	3750	3787.5	Tune-up limit (dBm)	MPR	
25	QPSK	1	1	22.80	22.95	22.92			
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3789.02			
20	QPSK	1	1	22.90	22.94	22.88	24.0	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	22.80	22.83	22.86			
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.76	22.78	22.86	24.0	0.0	

Part27Q n78 PC3 Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3475.02	3500.01	3525	24.0	0.0	
Frequency (MHz)				631668	633334	635000			
50	PI2 BPSK	1	1	22.82	22.90	22.87	24.0	0.0	
50	PI2 BPSK	1	135	22.73	22.83	22.75			
50	PI2 BPSK	1	268	22.55	22.77	22.69	23.5	0.5	
50	PI2 BPSK	135	0	22.25	22.36	22.20			
50	PI2 BPSK	135	68	22.79	22.87	22.75	24.0	0.0	
50	PI2 BPSK	135	135	22.32	22.33	22.18			
50	PI2 BPSK	270	0	22.20	22.40	22.36	23.5	0.5	
50	QPSK	1	1	22.90	22.94	22.87			
50	QPSK	1	135	22.81	22.86	22.66	24.0	0.0	
50	QPSK	1	268	22.71	22.71	22.64			
50	QPSK	135	0	21.83	21.97	21.80	23.0	1.0	
50	QPSK	135	68	22.84	22.91	22.85			
50	QPSK	135	135	21.90	21.96	21.85	23.0	1.0	
50	QPSK	270	0	22.03	22.05	21.98			
50	16QAM	1	1	21.49	21.57	21.52	23.0	1.0	
50	64QAM	1	1	20.03	20.12	19.95		21.5	
50	256QAM	1	1	18.56	18.76	18.69	19.5	4.5	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.70	22.75	22.82			
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.71	22.85	22.71	24.0	0.0	
Channel				630834	633334	635834			
Frequency (MHz)				3462.51	3500.01	3537.51	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.85	22.80	22.66			
Channel				630996	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.74	22.84	22.69	24.0	0.0	
Channel				630900	633334	636168			
Frequency (MHz)				3457	3500.01	3542.52	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.71	22.77	22.70			
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	22.82	22.79	22.88	24.0	0.0	



n48 Part96 Ant4 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				636334	641666	646000		
Frequency (MHz)				3575.01	3624.99	3675		
50	PI2 BPSK	1	1	23.01	23.16	23.08	24.0	0.0
50	PI2 BPSK	1	135	22.93	23.08	23.03		
50	PI2 BPSK	1	268	22.93	23.04	23.00		
50	PI2 BPSK	135	0	22.54	22.69	22.55	23.5	0.5
50	PI2 BPSK	135	68	23.00	23.07	23.01	24.0	0.0
50	PI2 BPSK	135	135	22.34	22.50	22.35	23.5	0.5
50	PI2 BPSK	270	0	22.44	22.55	22.49	24.0	0.0
50	QPSK	1	1	23.21	23.30	23.20		
50	QPSK	1	135	23.08	23.14	23.18		
50	QPSK	1	268	23.03	23.10	23.12	23.0	1.0
50	QPSK	135	0	22.14	22.19	22.03		
50	QPSK	135	68	23.10	23.15	23.11		
50	QPSK	135	135	21.96	22.06	22.03	23.0	1.0
50	QPSK	270	0	22.16	22.25	22.21	23.0	1.0
50	16QAM	1	1	21.86	21.91	21.86		
50	64QAM	1	1	20.11	20.08	20.04		
50	256QAM	1	1	18.63	18.71	18.68	19.5	4.5
Channel				636300	641666	645332	Time-up limit (dBm)	MPR
Frequency (MHz)				3570	3624.99	3679.98		
40	QPSK	1	1	23.17	23.18	23.05	24.0	0.0
Channel				637668	641666	645666	Time-up limit (dBm)	MPR
Frequency (MHz)				3573.02	3624.99	3684.99		
30	QPSK	1	1	23.10	23.23	23.11	24.0	0.0
Channel				637334	641666	646000	Time-up limit (dBm)	MPR
Frequency (MHz)				3560.01	3624.99	3680		
20	QPSK	1	1	23.12	23.24	23.12	24.0	0.0
Channel				637168	641666	646166	Time-up limit (dBm)	MPR
Frequency (MHz)				3557.51	3624.99	3692.49		
15	QPSK	1	1	23.16	23.19	23.08	24.0	0.0
Channel				637000	641666	646332	Time-up limit (dBm)	MPR
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	23.06	23.20	23.06	24.0	0.0
Channel				636334	641666	645000	Time-up limit (dBm)	MPR
Frequency (MHz)				3552.51	3624.99	3697.5		
5	QPSK	1	1	23.08	23.15	23.12	24.0	0.0

Part270 n77 PC3 Ant4 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				646334	650000	653668		
Frequency (MHz)				3725.01	3840	3955.02		
50	PI2 BPSK	1	1	22.88	22.94	22.96	24.0	0.0
50	PI2 BPSK	1	135	22.87	22.89	22.87		
50	PI2 BPSK	1	268	22.74	22.86	22.82		
50	PI2 BPSK	135	0	22.74	22.85	22.75	24.0	0.0
50	PI2 BPSK	135	68	22.83	22.94	22.86	24.0	0.0
50	PI2 BPSK	135	135	22.71	22.80	22.76	24.0	0.0
50	PI2 BPSK	270	0	22.83	22.93	22.78	24.0	0.0
50	QPSK	1	1	22.95	23.06	22.91		
50	QPSK	1	135	22.92	22.98	22.93		
50	QPSK	1	268	22.79	22.92	22.91	24.0	0.0
50	QPSK	135	0	22.81	22.86	22.75		
50	QPSK	135	68	22.93	23.02	22.95		
50	QPSK	135	135	22.71	22.90	22.87	24.0	0.0
50	QPSK	270	0	22.77	22.90	22.79	24.0	0.0
50	16QAM	1	1	22.65	22.73	22.58		
50	64QAM	1	1	22.55	22.61	22.57		
50	256QAM	1	1	21.56	21.59	21.62	22.5	1.5
Channel				646000	650000	654000	Time-up limit (dBm)	MPR
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.90	22.99	22.81	24.0	0.0
Channel				647668	650000	654334	Time-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3840	3955.01		
30	QPSK	1	1	22.85	22.95	22.81	24.0	0.0
Channel				647500	650000	654500	Time-up limit (dBm)	MPR
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	22.81	23.05	22.77	24.0	0.0
Channel				647334	650000	654668	Time-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.82	22.99	22.83	24.0	0.0
Channel				647168	650000	654834	Time-up limit (dBm)	MPR
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.82	23.03	22.78	24.0	0.0
Channel				647000	650000	655000	Time-up limit (dBm)	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.88	22.94	22.85	24.0	0.0

Part270 n77 PC2 Ant4 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				646334	650000	653668		
Frequency (MHz)				3725.01	3840	3955.02		
50	PI2 BPSK	1	1	25.87	25.93	25.81	27.0	0.0
50	PI2 BPSK	1	135	25.76	25.88	25.80		
50	PI2 BPSK	1	268	25.61	25.78	25.78		
50	PI2 BPSK	135	0	25.35	25.40	25.30	26.5	0.5
50	PI2 BPSK	135	68	25.84	25.87	25.78	27.0	0.0
50	PI2 BPSK	135	135	25.35	25.41	25.33	26.5	0.5
50	PI2 BPSK	270	0	25.34	25.42	25.34	27.0	0.0
50	QPSK	1	1	25.90	26.03	25.92		
50	QPSK	1	135	25.88	26.01	25.85		
50	QPSK	1	268	25.73	25.83	25.67	26.0	1.0
50	QPSK	135	0	24.92	24.87	24.81		
50	QPSK	135	68	25.82	25.98	25.93		
50	QPSK	135	135	24.72	24.82	24.67	26.0	1.0
50	QPSK	270	0	24.78	24.86	24.81	26.0	1.0
50	16QAM	1	1	24.58	24.62	24.54		
50	64QAM	1	1	22.97	23.13	22.89		
50	256QAM	1	1	21.49	21.66	21.59	22.5	4.5
Channel				646000	650000	654000	Time-up limit (dBm)	MPR
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	25.78	26.00	25.81	27.0	0.0
Channel				647668	650000	654334	Time-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3840	3955.01		
30	QPSK	1	1	25.85	25.91	25.83	27.0	0.0
Channel				647500	650000	654500	Time-up limit (dBm)	MPR
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	25.77	25.89	25.88	27.0	0.0
Channel				647334	650000	654668	Time-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	25.86	25.95	25.82	27.0	0.0
Channel				647168	650000	654834	Time-up limit (dBm)	MPR
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	25.86	25.98	25.77	27.0	0.0
Channel				647000	650000	655000	Time-up limit (dBm)	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	25.82	25.94	25.84	27.0	0.0

Part27Q n77 PC3 Ant4 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				831668	833334	835000	24.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	PI2 BPSK	1	1	22.97	23.06	22.98	24.0	0.0
50	PI2 BPSK	1	135	22.80	22.94	22.80		
50	PI2 BPSK	1	268	22.73	22.81	22.71	24.0	0.0
50	PI2 BPSK	135	0	22.71	22.82	22.87		
50	PI2 BPSK	135	68	22.91	22.99	22.85	24.0	0.0
50	PI2 BPSK	135	135	22.72	22.79	22.74		0.0
50	PI2 BPSK	270	0	22.76	22.90	22.82	24.0	0.0
50	QPSK	1	1	23.01	23.09	23.05		
50	QPSK	1	135	22.90	23.03	22.91	24.0	0.0
50	QPSK	1	268	22.77	22.91	22.81		
50	QPSK	135	0	22.80	22.87	22.79	24.0	0.0
50	QPSK	135	68	22.88	23.03	22.88		0.0
50	QPSK	135	135	22.75	22.80	22.66	24.0	0.0
50	QPSK	270	0	22.78	22.83	22.76		
50	16QAM	1	1	22.21	22.28	22.21	24.0	0.0
50	64QAM	1	1	22.29	22.34	22.19		0.0
50	256QAM	1	1	21.38	21.43	21.39	22.5	1.5
Channel				631000	633334	635000	24.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.97	23.06	22.93	24.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	24.0	0.0
30	QPSK	1	1	22.90	23.00	22.87		
Channel				630834	633334	635834	24.0	0.0
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	22.99	22.98	22.89	24.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0
20	QPSK	1	1	22.98	23.02	22.88		
Channel				630600	633334	636168	24.0	0.0
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	22.95	22.99	22.83	24.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01	24.0	0.0
10	QPSK	1	1	22.92	22.97	22.90		

Part27Q n77 PC2 Ant4 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				831668	833334	835000	27.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	PI2 BPSK	1	1	26.04	26.11	26.02	27.0	0.0
50	PI2 BPSK	1	135	25.96	26.05	25.95		
50	PI2 BPSK	1	268	25.80	25.95	25.84	26.5	0.5
50	PI2 BPSK	135	0	25.88	26.02	25.91		
50	PI2 BPSK	135	68	26.01	26.11	25.97	27.0	0.0
50	PI2 BPSK	135	135	25.30	25.38	25.29		0.5
50	PI2 BPSK	270	0	25.41	25.45	25.31	27.0	0.0
50	QPSK	1	1	26.05	26.14	26.03		
50	QPSK	1	135	25.92	26.07	25.98	27.0	0.0
50	QPSK	1	268	25.87	25.98	25.90		
50	QPSK	135	0	24.93	24.97	24.84	26.0	1.0
50	QPSK	135	68	25.88	26.03	25.95		0.0
50	QPSK	135	135	25.01	26.07	24.92	26.0	1.0
50	QPSK	270	0	24.89	25.03	24.96		
50	16QAM	1	1	24.94	25.02	24.93	26.0	1.0
50	64QAM	1	1	22.73	22.85	22.81	24.5	2.5
50	256QAM	1	1	21.37	21.48	21.33	22.5	4.5
Channel				631000	633334	635000	27.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	26.03	26.07	26.00	27.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	27.0	0.0
30	QPSK	1	1	26.03	26.09	26.02		
Channel				630834	633334	635834	27.0	0.0
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	26.07	26.11	25.98	27.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	27.0	0.0
20	QPSK	1	1	25.96	26.04	26.00		
Channel				630600	633334	636168	27.0	0.0
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	25.97	26.09	26.00	27.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01	27.0	0.0
10	QPSK	1	1	26.01	26.06	25.96		

Part270 n78 PC3 Ant4 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				648334	650000	651668	24.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	Pl/2 BPSK	1	1	22.86	22.90	22.79		
50	Pl/2 BPSK	1	135	22.89	22.87	22.89		
50	Pl/2 BPSK	1	268	22.91	23.00	22.90	23.5	0.5
50	Pl/2 BPSK	135	0	22.55	22.81	22.47	23.5	0.5
50	Pl/2 BPSK	135	68	22.91	22.94	22.85	24.0	0.0
50	Pl/2 BPSK	135	135	22.38	22.47	22.38	23.5	0.5
50	Pl/2 BPSK	270	0	22.47	22.52	22.46	24.0	0.0
50	QPSK	1	1	22.94	23.05	22.99		
50	QPSK	1	135	22.55	22.99	22.88		
50	QPSK	1	268	22.91	22.97	22.84		
50	QPSK	135	0	21.96	22.07	21.97	23.0	1.0
50	QPSK	135	68	22.82	22.84	22.84	24.0	0.0
50	QPSK	135	135	21.85	21.83	21.78	23.0	1.0
50	QPSK	270	0	21.91	22.02	21.88	23.0	1.0
50	16QAM	1	1	21.84	21.94	21.82		
50	64QAM	1	1	20.15	20.19	20.16		
50	256QAM	1	1	18.75	18.88	18.77	19.5	4.5
Channel				648500	650000	652000	24.0	0.0
Frequency (MHz)				3729	3750	3780		
40	QPSK	1	1	22.82	22.99	22.88		
Channel				647668	650000	652334	24.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.89	22.90	22.89	24.0	0.0
Channel				647500	650000	652500	24.0	0.0
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	22.83	22.97	22.94	24.0	0.0
Channel				647334	650000	652668	24.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.84	22.98	22.90	24.0	0.0
Channel				647168	650000	652834	24.0	0.0
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.90	22.93	22.86	24.0	0.0
Channel				647000	650000	653000	24.0	0.0
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.85	22.97	22.92	24.0	0.0

Part27Q n78 PC3 Ant4 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				631668	633334	635000	24.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	Pl/2 BPSK	1	1	22.90	23.04	22.93		
50	Pl/2 BPSK	1	135	22.79	22.91	22.88		
50	Pl/2 BPSK	1	268	22.79	22.91	22.79	23.5	0.5
50	Pl/2 BPSK	135	0	22.39	22.45	22.35	23.5	0.5
50	Pl/2 BPSK	135	68	22.92	23.01	22.89	24.0	0.0
50	Pl/2 BPSK	135	135	22.31	22.43	22.39	23.5	0.5
50	Pl/2 BPSK	270	0	22.44	22.48	22.35	24.0	0.0
50	QPSK	1	1	22.97	23.08	23.02		
50	QPSK	1	135	22.59	23.02	22.94		
50	QPSK	1	268	22.87	22.95	22.80		
50	QPSK	135	0	21.86	21.95	21.89	23.0	1.0
50	QPSK	135	68	22.94	23.03	22.90	24.0	0.0
50	QPSK	135	135	21.94	22.04	21.90	23.0	1.0
50	QPSK	270	0	21.88	21.98	21.91	23.0	1.0
50	16QAM	1	1	21.29	21.34	21.24		
50	64QAM	1	1	19.77	19.91	19.81		
50	256QAM	1	1	18.34	18.43	18.37	19.5	4.5
Channel				631834	633334	635334	24.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.90	22.91	22.90	24.0	0.0
Channel				631000	633334	635668	24.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.84	22.82	22.84	24.0	0.0
Channel				630834	633334	635834	24.0	0.0
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	22.87	23.01	22.90	24.0	0.0
Channel				630668	633334	636000	24.0	0.0
Frequency (MHz)				3460.09	3500.01	3540		
20	QPSK	1	1	22.89	22.94	22.88	24.0	0.0
Channel				630500	633334	636168	24.0	0.0
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	22.93	22.99	22.91	24.0	0.0
Channel				630334	633334	636334	24.0	0.0
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	22.84	22.95	22.90	24.0	0.0



n48 Part96 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636334	641666	645000			
Frequency (MHz)				3575.01	3624.99	3675			
50	PV2 BPSK	1	1	22.49	22.55	22.45	24.0	0.0	
50	PV2 BPSK	1	135	22.46	22.48	22.37			
50	PV2 BPSK	1	268	22.36	22.43	22.35			
50	PV2 BPSK	135	0	21.89	21.98	21.84	23.5	0.5	
50	PV2 BPSK	135	68	22.35	22.44	22.38	24.0	0.0	
50	PV2 BPSK	135	135	21.91	22.04	21.94	23.5	0.5	
50	PV2 BPSK	270	0	22.01	22.04	21.97	24.0	0.0	
50	QPSK	1	1	22.54	22.52	22.58			
50	QPSK	1	135	22.51	22.54	22.47			
50	QPSK	1	268	22.43	22.54	22.32	23.0	1.0	
50	QPSK	135	0	21.51	21.54	21.51			
50	QPSK	135	68	22.44	22.57	22.48			
50	QPSK	135	135	21.39	21.42	21.34	23.0	1.0	
50	QPSK	270	0	21.41	21.55	21.49	23.0	1.0	
50	16QAM	1	1	21.14	21.22	21.02			
50	64QAM	1	1	19.66	19.70	19.57			
50	256QAM	1	1	18.12	18.35	18.20	19.5	4.5	
Channel				636200	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3570	3624.99	3679.98			
40	QPSK	1	1	22.42	22.53	22.51	24.0	0.0	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	22.41	22.52	22.50	24.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3680			
20	QPSK	1	1	22.48	22.58	22.51	24.0	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	22.51	22.48	22.47	24.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	22.42	22.51	22.47	24.0	0.0	
Channel				636334	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552.51	3624.99	3697.5			
5	QPSK	1	1	22.43	22.46	22.41	24.0	0.0	

Part270 n77 PC3 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				648334	650000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	PV2 BPSK	1	1	22.41	22.46	22.47	24.0	0.0	
50	PV2 BPSK	1	135	22.34	22.39	22.40			
50	PV2 BPSK	1	268	22.20	22.38	22.31			
50	PV2 BPSK	135	0	22.30	22.36	22.24	24.0	0.0	
50	PV2 BPSK	135	68	22.41	22.48	22.36	24.0	0.0	
50	PV2 BPSK	135	135	22.36	22.36	22.25	24.0	0.0	
50	PV2 BPSK	270	0	22.25	22.43	22.40	24.0	0.0	
50	QPSK	1	1	22.37	22.56	22.50			
50	QPSK	1	135	22.38	22.43	22.39			
50	QPSK	1	268	22.23	22.34	22.27	24.0	0.0	
50	QPSK	135	0	22.22	22.37	22.28			
50	QPSK	135	68	22.43	22.52	22.37			
50	QPSK	135	135	22.29	22.41	22.20	24.0	0.0	
50	QPSK	270	0	22.38	22.46	22.30	24.0	0.0	
50	16QAM	1	1	22.07	22.14	22.01			
50	64QAM	1	1	22.02	22.09	22.06			
50	256QAM	1	1	21.31	21.36	21.32	22.5	1.5	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.32	22.46	22.41	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	22.29	22.51	22.45	24.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.31	22.47	22.35	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.26	22.45	22.47	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.28	22.53	22.45	24.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.25	22.51	22.41	24.0	0.0	

Part270 n77 PC2 Ant5 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				646334	650000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	PV2 BPSK	1	1	24.39	25.50	25.42	27.0	0.0	
50	PV2 BPSK	1	135	25.37	25.48	25.43			
50	PV2 BPSK	1	268	25.35	25.46	25.33			
50	PV2 BPSK	135	0	24.87	25.08	24.95	26.5	0.5	
50	PV2 BPSK	135	68	25.41	25.48	25.43	27.0	0.0	
50	PV2 BPSK	135	135	24.87	25.00	24.88	26.5	0.5	
50	PV2 BPSK	270	0	24.89	25.02	24.86	27.0	0.0	
50	QPSK	1	1	25.50	25.61	25.49			
50	QPSK	1	135	25.50	25.47	25.35			
50	QPSK	1	268	25.28	25.42	25.33	26.0	1.0	
50	QPSK	135	0	24.42	24.51	24.42			
50	QPSK	135	68	25.52	25.58	25.50			
50	QPSK	135	135	24.36	24.50	24.41	26.0	1.0	
50	QPSK	270	0	24.53	24.56	24.40	26.0	1.0	
50	16QAM	1	1	24.09	24.22	24.11			
50	64QAM	1	1	22.95	22.59	22.52			
50	256QAM	1	1	21.31	21.38	21.20	22.5	4.5	
Channel				646000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.36	25.52	25.44	27.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	25.42	25.55	25.42	27.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	25.35	25.56	25.44	27.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.42	25.47	25.41	27.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	25.45	25.51	25.43	27.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.46	25.48	25.38	27.0	0.0	

Part27Q n77 PC3 Ant5 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				631668	633334	635000	24.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	PI/2 BPSK	1	1	22.73	22.78	22.70	24.0	0.0
50	PI/2 BPSK	1	135	22.69	22.72	22.63		
50	PI/2 BPSK	1	268	22.41	22.35	22.53	24.0	0.0
50	PI/2 BPSK	135	0	22.71	22.70	22.65		
50	PI/2 BPSK	135	68	22.57	22.74	22.65	24.0	0.0
50	PI/2 BPSK	135	135	22.42	22.64	22.51		
50	PI/2 BPSK	270	0	22.52	22.70	22.65	24.0	0.0
50	QPSK	1	1	22.78	22.80	22.71		
50	QPSK	1	135	22.71	22.76	22.74	24.0	0.0
50	QPSK	1	268	22.52	22.63	22.58		
50	QPSK	135	0	22.67	22.70	22.53	24.0	0.0
50	QPSK	135	68	22.70	22.77	22.65		
50	QPSK	135	135	22.68	22.70	22.64	24.0	0.0
50	QPSK	270	0	22.67	22.75	22.62		
50	16QAM	1	1	22.40	22.46	22.44	24.0	0.0
50	16QAM	1	1	22.54	22.52	22.42		
50	256QAM	1	1	21.43	21.61	21.51	22.5	1.5
Channel				631534	633334	635000		
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0
40	QPSK	1	1	22.60	22.77	22.52		
Channel				631000	633334	635668	24.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.60	22.61	22.59	24.0	0.0
Channel				630834	633334	635834		
Frequency (MHz)				3462.51	3500.01	3537.51	24.0	0.0
25	QPSK	1	1	22.61	22.64	22.71		
Channel				630668	633334	636000	24.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.68	22.81	22.65	24.0	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52	24.0	0.0
15	QPSK	1	1	22.80	22.76	22.53		
Channel				630334	633334	636334	24.0	0.0
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	22.77	22.66	22.54	24.0	0.0

Part27Q n77 PC2 Ant5 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				631668	633334	635000	27.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	PI/2 BPSK	1	1	26.11	26.21	26.17	27.0	0.0
50	PI/2 BPSK	1	135	26.02	26.09	25.97		
50	PI/2 BPSK	1	268	25.96	26.03	25.86	26.5	0.5
50	PI/2 BPSK	135	0	25.81	25.85	25.51		
50	PI/2 BPSK	135	68	26.01	26.15	26.11	27.0	0.0
50	PI/2 BPSK	135	135	25.53	25.56	25.48		
50	PI/2 BPSK	270	0	25.53	25.63	25.58	27.0	0.0
50	QPSK	1	1	26.13	26.26	26.12		
50	QPSK	1	135	26.07	26.16	26.07	27.0	0.0
50	QPSK	1	268	25.95	26.09	25.98		
50	QPSK	135	0	25.00	25.09	24.97	26.0	1.0
50	QPSK	135	68	26.15	26.19	26.13		
50	QPSK	135	135	25.17	25.22	25.11	26.0	1.0
50	QPSK	270	0	25.19	25.26	25.20		
50	16QAM	1	1	24.91	24.99	24.91	26.0	1.0
50	16QAM	1	1	23.34	23.45	23.35		
50	256QAM	1	1	22.08	22.13	22.03	22.5	4.5
Channel				631534	633334	635000		
Frequency (MHz)				3470.01	3500.01	3530.01	27.0	0.0
40	QPSK	1	1	26.04	26.11	26.07		
Channel				631000	633334	635668	27.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	26.05	26.14	25.99	27.0	0.0
Channel				630834	633334	635834		
Frequency (MHz)				3462.51	3500.01	3537.51	27.0	0.0
25	QPSK	1	1	26.05	26.19	26.07		
Channel				630668	633334	636000	27.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	26.10	26.15	25.98	27.0	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52	27.0	0.0
15	QPSK	1	1	26.00	26.20	26.04		
Channel				630334	633334	636334	27.0	0.0
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	26.01	26.16	25.98	27.0	0.0

Part270 n78 PC3 Ant5 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				648334	650000	651668	24.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	Pl/2 BPSK	1	1	22.33	22.37	22.27	24.0	0.0
50	Pl/2 BPSK	1	135	22.14	22.31	22.18		
50	Pl/2 BPSK	1	268	22.05	22.26	22.25	23.5	0.5
50	Pl/2 BPSK	135	0	21.80	21.91	21.92		
50	Pl/2 BPSK	135	68	22.31	22.34	22.21	24.0	0.0
50	Pl/2 BPSK	135	135	21.77	21.86	21.82		
50	Pl/2 BPSK	270	0	21.77	21.85	21.64	23.5	0.5
50	QPSK	1	1	22.35	22.42	22.29		
50	QPSK	1	135	22.27	22.29	22.24	24.0	0.0
50	QPSK	1	268	22.25	22.25	22.25		
50	QPSK	135	0	21.39	21.48	21.32	23.0	1.0
50	QPSK	135	68	22.22	22.32	22.26		
50	QPSK	135	135	21.37	21.42	21.33	23.0	1.0
50	QPSK	270	0	21.40	21.44	21.32		
50	16QAM	1	1	21.22	21.30	21.26	23.0	1.0
50	64QAM	1	1	19.56	19.67	19.51		
50	256QAM	1	1	18.16	18.25	18.08	19.5	4.5
Channel				648500	650000	652000	24.0	0.0
Frequency (MHz)				3729	3750	3780		
40	QPSK	1	1	22.28	22.35	22.09	24.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	24.0	0.0
30	QPSK	1	1	22.14	22.21	22.09		
Channel				647500	650000	652500	24.0	0.0
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	22.24	22.28	22.13	24.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	24.0	0.0
20	QPSK	1	1	22.29	22.36	22.19		
Channel				647168	650000	652834	24.0	0.0
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.20	22.34	22.07	24.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	24.0	0.0
10	QPSK	1	1	22.21	22.30	22.18		

Part27Q n78 PC3 Ant5 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				631668	633334	635000	24.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	Pl/2 BPSK	1	1	23.24	23.32	23.28	24.0	0.0
50	Pl/2 BPSK	1	135	23.33	23.37	23.24		
50	Pl/2 BPSK	1	268	23.16	23.28	23.16	23.5	0.5
50	Pl/2 BPSK	135	0	22.84	22.78	22.73		
50	Pl/2 BPSK	135	68	23.21	23.29	23.17	24.0	0.0
50	Pl/2 BPSK	135	135	22.72	22.78	22.70		
50	Pl/2 BPSK	270	0	22.70	22.80	22.77	23.5	0.5
50	QPSK	1	1	23.34	23.40	23.29		
50	QPSK	1	135	23.28	23.35	23.30	24.0	0.0
50	QPSK	1	268	23.17	23.25	23.10		
50	QPSK	135	0	22.31	22.33	22.25	23.0	1.0
50	QPSK	135	68	23.30	23.36	23.24		
50	QPSK	135	135	22.27	22.38	22.32	23.0	1.0
50	QPSK	270	0	22.36	22.42	22.33		
50	16QAM	1	1	21.99	22.05	22.03	23.0	1.0
50	64QAM	1	1	20.51	20.65	20.49		
50	256QAM	1	1	19.18	19.22	19.14	19.5	4.5
Channel				631834	633334	635334	24.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.23	23.32	23.20	24.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	24.0	0.0
30	QPSK	1	1	23.10	23.25	23.12		
Channel				630834	633334	635834	24.0	0.0
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	23.29	23.39	23.25	24.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.69	3500.01	3540	24.0	0.0
20	QPSK	1	1	23.20	23.27	23.23		
Channel				630500	633334	636168	24.0	0.0
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	23.23	23.39	23.29	24.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01	24.0	0.0
10	QPSK	1	1	23.13	23.34	23.28		

n41 PC3 Ant6 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504204	518598	532992	24.0	0.0	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	22.57	22.60	22.39	24.0	0.0	
50	PI/2 BPSK	1	135	22.48	22.49	22.38			
50	PI/2 BPSK	1	268	22.33	22.45	22.40			
50	PI/2 BPSK	135	0	22.34	22.49	22.38			
50	PI/2 BPSK	135	68	22.50	22.56	22.40	24.0	0.0	
50	PI/2 BPSK	135	135	22.48	22.50	22.36	24.0	0.0	
50	PI/2 BPSK	270	0	22.31	22.63	22.37	24.0	0.0	
50	QPSK	1	1	22.58	22.68	22.62			
50	QPSK	1	135	22.45	22.58	22.43			
50	QPSK	1	268	22.20	22.37	22.27			
50	QPSK	135	0	22.34	22.45	22.37	24.0	0.0	
50	QPSK	135	68	22.60	22.63	22.48	24.0	0.0	
50	QPSK	135	135	22.32	22.45	22.23	24.0	0.0	
50	QPSK	270	0	22.42	22.48	22.34	24.0	0.0	
50	16QAM	1	1	22.38	22.41	22.27			
50	64QAM	1	1	22.34	22.43	22.17			
50	256QAM	1	1	21.55	21.54	21.45			
Channel				502202	518598	534000	24.0	MPR	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.52	22.63	22.51	24.0	0.0	
Channel				502200	518598	534996	24.0	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.45	22.63	22.51	24.0	0.0	
Channel				501204	518598	535998	24.0	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.48	22.58	22.48	24.0	0.0	
Channel				500700	518598	536496	24.0	MPR	
Frequency (MHz)				2501.5	2592.99	2662.48			
15	QPSK	1	1	22.55	22.56	22.54	24.0	0.0	
Channel				500202	518598	537000	24.0	MPR	
Frequency (MHz)				2501.01	2592.99	2665			
10	QPSK	1	1	22.54	22.61	22.57	24.0	0.0	

n41 PC2 Ant6 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504204	518598	532992	27.0	0.0	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	25.56	25.61	25.47	27.0	0.0	
50	PI/2 BPSK	1	135	25.39	25.57	25.49			
50	PI/2 BPSK	1	268	25.32	25.58	25.36			
50	PI/2 BPSK	135	0	25.20	25.17	25.20			
50	PI/2 BPSK	135	68	25.44	25.46	25.37	27.0	0.0	
50	PI/2 BPSK	135	135	25.17	25.26	25.12	26.5	0.5	
50	PI/2 BPSK	270	0	25.19	25.26	25.16	27.0	0.0	
50	QPSK	1	1	25.61	25.70	25.52			
50	QPSK	1	135	25.48	25.56	25.54			
50	QPSK	1	268	25.45	25.61	25.45			
50	QPSK	135	0	24.64	24.69	24.70	26.0	1.0	
50	QPSK	135	68	25.59	25.61	25.53	27.0	0.0	
50	QPSK	135	135	24.64	24.71	24.66	26.0	1.0	
50	QPSK	270	0	24.61	24.78	24.72	26.0	1.0	
50	16QAM	1	1	24.28	24.34	24.42			
50	64QAM	1	1	22.82	22.88	22.97			
50	256QAM	1	1	21.43	21.46	21.37			
Channel				502202	518598	534000	27.0	MPR	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.49	25.64	25.42	27.0	0.0	
Channel				502200	518598	534996	27.0	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.57	25.57	25.39	27.0	0.0	
Channel				501204	518598	535998	27.0	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.51	25.66	25.47	27.0	0.0	
Channel				500700	518598	536496	27.0	MPR	
Frequency (MHz)				2501.5	2592.99	2662.48			
15	QPSK	1	1	25.48	25.63	25.49	27.0	0.0	
Channel				500202	518598	537000	27.0	MPR	
Frequency (MHz)				2501.01	2592.99	2665			
10	QPSK	1	1	25.55	25.62	25.38	27.0	0.0	



n48 Part96 Ant7 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				635334	641666	645000	24.0	0.0	
Frequency (MHz)				3575.01	3624.99	3675			
50	PV2 BPSK	1	1	22.41	22.51	22.49			
50	PV2 BPSK	1	135	22.38	22.40	22.37			
50	PV2 BPSK	1	268	22.30	22.47	22.38	23.5	0.5	
50	PV2 BPSK	135	0	22.16	22.30	22.21			
50	PV2 BPSK	135	68	22.43	22.48	22.43	24.0	0.0	
50	PV2 BPSK	135	135	22.08	22.26	22.10	23.5	0.5	
50	PV2 BPSK	270	0	22.22	22.30	22.23			
50	QPSK	1	1	22.55	22.61	22.52	24.0	0.0	
50	QPSK	1	135	22.48	22.54	22.47			
50	QPSK	1	268	22.43	22.50	22.43			
50	QPSK	135	0	21.50	21.59	21.49		23.0	
50	QPSK	135	68	22.37	22.57	22.41	24.0	0.0	
50	QPSK	135	135	21.46	21.59	21.53		23.0	
50	QPSK	270	0	21.57	21.62	21.56	23.0	1.0	
50	16QAM	1	1	21.12	21.11	21.05		23.0	
50	64QAM	1	1	19.63	19.64	19.54		21.5	
50	256QAM	1	1	18.50	18.54	18.46		19.5	
Channel				636200	641666	645332	24.0	0.0	
Frequency (MHz)				3570	3624.99	3679.98			
40	QPSK	1	1	22.45	22.48	22.46		24.0	
Channel				637668	641666	645666	24.0	MPR	
Frequency (MHz)				3575.02	3624.99	3684.99			
30	QPSK	1	1	22.50	22.53	22.59		24.0	
Channel				637334	641666	646000	24.0	MPR	
Frequency (MHz)				3560.01	3624.99	3680			
20	QPSK	1	1	22.52	22.56	22.44		24.0	
Channel				637168	641666	646166	24.0	MPR	
Frequency (MHz)				3567.57	3624.99	3692.49			
15	QPSK	1	1	22.40	22.58	22.41		24.0	
Channel				637000	641666	646332	24.0	MPR	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	22.49	22.51	22.40		24.0	
Channel				636254	641666	646500	24.0	MPR	
Frequency (MHz)				3552.51	3624.99	3697.5			
5	QPSK	1	1	22.39	22.48	22.42		24.0	

Part270 n77 PC2 Ant7 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				646334	650000	663668	24.3	0.0	
Frequency (MHz)				3725.01	3840	3955.02			
50	PV2 BPSK	1	1	22.96	23.06	22.95		24.3	
50	PV2 BPSK	1	135	22.97	22.99	22.82			
50	PV2 BPSK	1	268	22.84	22.94	22.80			
50	PV2 BPSK	135	0	22.55	22.69	22.47		23.8	
50	PV2 BPSK	135	68	22.85	23.02	22.88	24.3	0.0	
50	PV2 BPSK	135	135	22.45	22.51	22.47		23.8	
50	PV2 BPSK	270	0	22.59	22.56	22.49	24.3	0.0	
50	QPSK	1	1	23.03	23.14	23.01			
50	QPSK	1	135	22.98	23.04	22.94			
50	QPSK	1	268	22.82	22.93	22.82			
50	QPSK	135	0	21.97	22.06	21.99	24.3	23.3	
50	QPSK	135	68	22.89	23.07	22.97		24.3	
50	QPSK	135	135	22.03	22.01	21.95	23.3	1.0	
50	QPSK	270	0	22.02	22.11	22.04			
50	16QAM	1	1	21.71	21.72	21.61	23.3	1.0	
50	64QAM	1	1	20.10	20.18	20.11		21.8	
50	256QAM	1	1	18.89	18.91	18.85	19.8	4.5	
Channel				646000	650000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.89	23.02	22.86		24.3	
Channel				647668	650000	664334	24.3	MPR	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	22.99	22.99	22.92		24.3	
Channel				647500	650000	664500	24.3	MPR	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.96	23.00	22.88		24.3	
Channel				647334	650000	664668	24.3	MPR	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.90	23.09	22.88		24.3	
Channel				647168	650000	664834	24.3	MPR	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.92	23.04	22.97		24.3	
Channel				647000	650000	665000	24.3	MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.98	23.05	22.91		24.3	

Part27Q n77 PC2 Ant7 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				631668	633334	635000	24.3	0.0	
Frequency (MHz)				3475.02	3500.01	3525			
50	PV2 BPSK	1	1	23.01	23.07	22.96		24.3	
50	PV2 BPSK	1	135	23.02	23.02	22.92			
50	PV2 BPSK	1	268	22.94	22.99	22.90			
50	PV2 BPSK	135	0	22.82	22.80	22.49		23.8	
50	PV2 BPSK	135	68	22.85	23.07	22.99	24.3	0.0	
50	PV2 BPSK	135	135	22.53	22.57	22.49		23.8	
50	PV2 BPSK	270	0	22.64	22.57	22.59	24.3	0.0	
50	QPSK	1	1	23.95	23.16	23.11			
50	QPSK	1	135	23.01	23.11	22.94			
50	QPSK	1	268	22.82	22.93	22.84			
50	QPSK	135	0	21.98	22.16	22.02	23.3	23.0	
50	QPSK	135	68	23.07	23.12	23.02		24.3	
50	QPSK	135	135	22.06	22.09	22.01	23.3	1.0	
50	QPSK	270	0	22.12	22.16	22.06			
50	16QAM	1	1	21.74	21.73	21.64	23.3	1.0	
50	64QAM	1	1	20.20	20.24	20.12		21.8	
50	256QAM	1	1	18.97	18.93	18.91	19.8	4.5	
Channel				631214	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.91	23.14	23.05		24.3	
Channel				631000	633334	635668	24.3	MPR	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.91	23.05	23.04		24.3	
Channel				630834	633334	635834	24.3	MPR	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	22.97	23.14	23.00		24.3	
Channel				630668	633334	636000	24.3	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.95	23.13	23.07		24.3	
Channel				630500	633334	636168	24.3	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	22.91	23.05	23.03		24.3	
Channel				630334	633334	636334	24.3	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	22.95	23.11	22.97		24.3	



Part27O n78 PC3 Ant7 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				843.334	850000	851668	24.0	0.0	
Frequency (MHz)				3725.01	3750	3775.02			
50	PI2 BPSK	1	1	22.15	22.13	22.30		0.0	
50	PI2 BPSK	1	135	22.22	22.17	22.20	23.5	0.5	
50	PI2 BPSK	1	268	22.01	22.11	22.10			
50	PI2 BPSK	135	0	21.58	21.75	21.70		0.0	
50	PI2 BPSK	135	68	22.23	22.24	22.18	23.5	0.5	
50	PI2 BPSK	135	135	21.83	21.69	21.56			
50	PI2 BPSK	270	0	21.84	21.57	21.64	24.0	0.0	
50	QPSK	1	1	22.17	22.33	22.22			
50	QPSK	1	135	22.18	22.25	22.19		0.0	
50	QPSK	1	268	22.15	22.21	22.20	23.0	1.0	
50	QPSK	135	0	21.19	21.07	21.18			
50	QPSK	135	68	22.18	22.32	22.28		0.0	
50	QPSK	135	135	21.17	21.17	21.07	23.0	1.0	
50	QPSK	270	0	21.23	21.25	21.08			
50	16QAM	1	1	21.18	21.29	21.22	23.0	1.0	
50	64QAM	1	1	20.01	19.88	19.91		2.5	
50	256QAM	1	1	18.17	18.26	18.22		4.5	
Channel				850000	850000	850000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.10	22.19	22.20		0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.18	22.27	22.06		0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	22.05	22.27	22.15		0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.02	22.18	22.19		0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	22.08	22.20	22.14		0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.07	22.16	22.17		0.0	

Part27Q n78 PC3 Ant7 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				831668	833334	835000	24.0	0.0	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI2 BPSK	1	1	22.71	22.66	22.75		0.0	
50	PI2 BPSK	1	135	22.56	22.58	22.53	23.5	0.5	
50	PI2 BPSK	1	268	22.47	22.38	22.57			
50	PI2 BPSK	135	0	22.06	22.04	22.17		0.0	
50	PI2 BPSK	135	68	22.56	22.57	22.57	23.5	0.5	
50	PI2 BPSK	135	135	21.95	21.93	21.78			
50	PI2 BPSK	270	0	21.89	22.02	21.97	24.0	0.0	
50	QPSK	1	1	22.84	22.86	22.75			
50	QPSK	1	135	22.68	22.61	22.69		0.0	
50	QPSK	1	268	22.37	22.34	22.34	23.0	1.0	
50	QPSK	135	0	21.39	21.38	21.30			
50	QPSK	135	68	22.48	22.53	22.52		0.0	
50	QPSK	135	135	21.72	21.66	21.72	23.0	1.0	
50	QPSK	270	0	21.73	21.77	21.72			
50	16QAM	1	1	21.59	21.64	21.56	23.0	1.0	
50	64QAM	1	1	19.75	19.88	19.77		2.5	
50	256QAM	1	1	18.33	18.36	18.36		4.5	
Channel				831334	833334	835334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.83	22.83	22.72		0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.70	22.70	22.72		0.0	
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	22.77	22.75	22.77		0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.75	22.66	22.71		0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	22.75	22.76	22.80		0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	22.71	22.76	22.71		0.0	



WiFi&Bluetooth Power

2.4GHz WLAN				Ant 3 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Hotspot For Extremity Simultaneous	
	Mode	Channel	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
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.93	21.50	15.82	17.50	13.41	15.00	17.56	19.00	12.33	14.00	14.81	16.50
		6	2437	19.87	21.50	15.81	17.50	13.35	15.00	17.51	19.00	12.41	14.00	14.83	16.50
		11	2462	20.49	21.50	16.38	17.50	13.76	15.00	17.82	19.00	12.60	14.00	15.22	16.50
	802.11g 6Mbps	1	2412	18.91	20.50		17.50		15.00		19.00		14.00		16.50
		6	2437	19.20	20.50		17.50		15.00		19.00		14.00		16.50
		10	2457	18.89	20.00		17.50		15.00		19.00		14.00		16.50
	802.11n-HT20 MCS0	11	2462	15.30	16.00		16.00		15.00		16.00		14.00		16.00
		1	2412	16.21	17.50		17.50		15.00		17.50		14.00		16.50
		6	2437	18.22	19.50		17.50		15.00		19.00		14.00		16.50
	802.11n-HT40 MCS0	9	2452	19.15	20.50		17.50		15.00		19.00		14.00		16.50
		10	2457	14.70	16.00		17.50		15.00		19.00		14.00		16.50
		11	2462	13.99	14.50		14.50		14.50		14.50		14.00		14.50
	802.11ac-VHT20 MCS9	3	2422	15.13	16.50		16.50		15.00		16.50		14.00		16.50
		6	2437	16.82	17.50		17.50		15.00		17.50		14.00		16.50
		7	2442	15.04	16.50		16.50		15.00		16.50		14.00		16.50
	802.11ax-HE20 MCS9	8	2447	14.15	15.50		15.50		15.00		15.50		14.00		15.50
		9	2452	12.40	13.00		13.00		13.00		13.00		13.00		13.00
		1	2412	16.30	17.50		17.50		15.00		17.50		14.00		16.50
	802.11ac-VHT40 MCS9	6	2437	18.28	19.50		17.50		15.00		19.00		14.00		16.50
		9	2452	19.26	20.50	Not Required	17.50	Not Required	15.00	Not Required	19.00	Not Required	14.00	Not Required	16.50
		10	2457	14.80	16.50		17.50		15.00		19.00		14.00		16.50
	802.11ac-VHT80 MCS9	11	2462	14.09	15.00		15.00		15.00		15.00		14.00		15.00
		3	2422	15.19	17.00		17.00		15.00		17.00		14.00		16.50
		6	2437	16.97	17.50		17.50		15.00		17.50		14.00		16.50
	802.11ax-HE40 MCS9	7	2442	15.15	16.50		17.50		15.00		17.50		14.00		16.50
		8	2447	14.26	15.50		17.50		15.00		17.50		14.00		15.50
		9	2452	12.46	13.00		13.00		13.00		13.00		13.00		13.00
	802.11ax-HE80 MCS9	1	2412	16.41	17.50		17.50		15.00		17.50		14.00		16.50
		6	2437	18.40	19.50		17.50		15.00		19.00		14.00		16.50
		9	2452	19.39	20.50		17.50		15.00		19.00		14.00		16.50
	802.11ax-HE160 MCS9	10	2457	14.96	16.50		16.50		15.00		19.00		14.00		16.50
		11	2462	14.16	15.00		15.00		15.00		15.00		14.00		15.00
		3	2422	15.31	17.00		17.00		15.00		17.00		14.00		16.50
	802.11ax-HE320 MCS9	6	2437	17.12	17.50		17.50		15.00		17.50		14.00		16.50
		7	2442	15.30	17.00		17.00		15.00		17.00		14.00		16.50
		8	2447	14.43	16.00		16.00		15.00		16.00		14.00		16.00
		9	2452	12.59	13.50		13.50		13.50		13.50		13.50		13.50

5.2GHz WLAN				Ant 3 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Hotspot For Extremity Simultaneous	
	Mode	Channel	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
5.2GHz WLAN	802.11a 6Mbps	36	5180	16.42	18.00		16.50		11.00		17.00		12.00		14.50
		40	5200	17.54	19.00		16.50		11.00		17.00		12.00		14.50
		44	5220	17.66	19.00		16.50		11.00		17.00		12.00		14.50
	802.11n-HT20 MCS0	48	5240	17.16	18.50	Not Required	16.50		11.00	Not Required	17.00		12.00	Not Required	14.50
		36	5180	17.42	19.00		16.50		11.00		17.00		12.00		14.50
		40	5200	17.43	19.00		16.50		11.00		17.00		12.00		14.50
	802.11n-HT40 MCS0	44	5220	17.35	19.00		16.50		11.00		17.00		12.00		14.50
		48	5240	17.08	18.50		16.50	Not Required	11.00		17.00	Not Required	12.00		14.50
		38	5190	12.71	14.50	12.71	14.50		11.00	12.71	14.50		12.00	12.71	14.50
	802.11ac-VHT20 MCS9	46	5230	17.94	19.50	14.81	16.50		11.00	15.44	17.00		12.00	13.11	14.50
		36	5180	17.48	19.00		16.50		11.00		17.00		12.00		14.50
		40	5200	17.47	19.00		16.50		11.00		17.00		12.00		14.50
	802.11ac-VHT40 MCS9	44	5220	17.60	19.00		16.50		11.00		17.00		12.00		14.50
		48	5240	17.11	18.50		16.50		11.00		17.00		12.00		14.50
		38	5190	12.72	14.50		14.50		11.00		14.50		12.00		14.50
	802.11ac-VHT80 MCS9	46	5230	17.95	19.50		16.50		11.00		17.00		12.00		14.50
		42	5210	12.48	14.00	Not Required	14.00	9.44	11.00		14.00	10.67	12.00		14.00
		36	5180	17.63	19.00		16.50		11.00	Not Required	17.00		12.00	Not Required	14.50
	802.11ax-HE20 MCS9	40	5200	17.57	19.00		16.50		11.00		17.00		12.00		14.50
		44	5220	17.70	19.00		16.50		11.00		17.00		12.00		14.50
		48	5240	17.20	18.50		16.50	Not Required	11.00		17.00	Not Required	12.00		14.50
	802.11ax-HE40 MCS9	38	5190	12.80	14.00		14.00	Not Required	11.00		14.00	Not Required	12.00		14.00
		46	5230	18.02	19.50		16.50		11.00		17.00		12.00		14.50
		42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
	802.11ax-HE80 MCS9	42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
		42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
		42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
	802.11ax-HE160 MCS9	42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
		42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
		42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
	802.11ax-HE320 MCS9	42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
		42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
		42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
	802.11ax-HE640 MCS9	42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
		42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00
		42	5210	12.58	14.00		14.00		11.00		14.00		12.00		14.00

5.3GHz WLAN				Ant 3 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Extremity Simultaneous			
	Mode	Channel	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		
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.23	19.00	Not Required	17.00	Not Required	12.00	Not Required	17.50	Not Required	13.00	Not Required	15.50		
		56	5280	17.33	19.00		17.00		12.00		17.50		13.00		15.50		
		60	5300	16.98	18.50		17.00		12.00		17.50		13.00		15.50		
		64	5320	17.03	18.50		17.00		12.00		17.50		13.00		15.50		
	802.11n-HT20 MCS0	52	5260	17.13	19.00	Not Required	17.00	Not Required	12.00	Not Required	17.50	Not Required	13.00	Not Required	15.50		
		56	5280	17.27	19.00		17.00		12.00		17.50		13.00		15.50		
		60	5300	17.38	19.00		17.00		12.00		17.50		13.00		15.50		
		64	5320	16.36	18.00		17.00		12.00		17.50		13.00		15.50		
	802.11n-HT40 MCS0	54	5270	18.09	19.50	15.77	17.00	Not Required	12.00	16.11	17.50	Not Required	13.00	14.21	15.50		
		62	5310	13.88	15.50	15.50	12.00		13.88	15.50	13.00		13.88	15.50			
		52	5260	17.18	19.00	Not Required	17.00		Not Required	12.00	Not Required		17.50	Not Required	13.00	Not Required	15.50
		56	5280	17.31	19.00		17.00			12.00			17.50		13.00		15.50
	60	5300	17.45	19.00	17.00		12.00	17.50		13.00		15.50					
	64	5320	16.40	18.00	17.00		12.00	17.50		13.00		15.50					
	802.11ac-VHT20 MCS0	54	5270	18.09	19.50	Not Required	17.00	Not Required	12.00	Not Required	17.50	Not Required	13.00	Not Required	15.50		
		62	5310	13.89	15.50		15.50		12.00		15.50		13.00		15.50		
		58	5290	13.57	15.00		15.00		11.01		12.00		15.00		11.66	13.00	15.00
		52	5260	17.30	19.00		17.00		12.00		17.50		13.00		15.50		
	802.11ac-VHT40 MCS0	56	5280	17.38	19.00	Not Required	17.00	Not Required	12.00	Not Required	17.50	Not Required	13.00	Not Required	15.50		
		60	5300	17.52	19.00		17.00		12.00		17.50		13.00		15.50		
64		5320	16.48	18.00	17.00		12.00		17.50		13.00		15.50				
54		5270	18.17	19.50	17.00		12.00		17.50		13.00		15.50				
802.11ac-HE40 MCS0	62	5310	13.97	15.50	Not Required	15.50	Not Required	12.00	Not Required	15.50	Not Required	13.00	Not Required	15.50			
	58	5290	13.72	15.00		15.00		12.00		15.00		13.00		15.00			



2.4GHz WLAN				Ant 8 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Hotspot For Extremity Simultaneous	
	Mode	Channel	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
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.22	21.50	16.18	17.50	13.70	15.00	17.77	19.00	12.58	14.00	15.27	16.50
		6	2437	20.44	21.50	16.31	17.50	13.77	15.00	17.61	19.00	12.66	14.00	15.19	16.50
		11	2462	20.06	21.50	16.22	17.50	13.68	15.00	17.55	19.00	12.77	14.00	15.33	16.50
	802.11g 6Mbps	1	2412	19.11	20.50		17.50		15.00		19.00		14.00		16.50
		6	2437	19.37	20.50		17.50		15.00		19.00		14.00		16.50
		10	2457	18.18	20.00		17.50		15.00		19.00		14.00		16.50
	802.11n-HT20 MCS0	11	2462	14.46	16.00		16.00		15.00		16.00		14.00		16.00
		1	2412	16.35	17.50		17.50		15.00		17.50		14.00		16.50
		6	2437	18.27	19.50		17.50		15.00		19.00		14.00		16.50
	802.11n-HT40 MCS0	9	2452	17.81	19.50		17.50		15.00		19.00		14.00		16.50
		10	2457	13.62	15.00		17.50		15.00		19.00		14.00		16.50
		11	2462	13.10	14.50		14.50		14.50		14.50		14.00		14.50
	802.11ac-VHT20 MCS0	3	2422	15.72	16.50		16.50		15.00		16.50		14.00		16.50
		6	2437	15.90	17.50		17.50		15.00		17.50		14.00		16.50
		7	2442	14.09	15.50		15.50		15.00		15.50		14.00		15.50
	802.11ac-VHT40 MCS0	8	2447	13.30	14.50		14.50		14.50		14.50		14.00		14.50
		9	2452	11.36	13.00		13.00		13.00		13.00		13.00		13.00
		1	2412	16.39	17.50		17.50		15.00		17.50		14.00		16.50
	802.11ax-HE20 MCS0	6	2437	18.29	19.50		17.50		15.00		19.00		14.00		16.50
		9	2452	17.88	19.50	Not Required	17.50	Not Required	15.00	Not Required	19.00	Not Required	14.00	Not Required	16.50
		10	2457	13.69	15.50		17.50		15.00		19.00		14.00		16.50
	802.11ax-HE40 MCS0	11	2462	13.14	15.00		15.00		15.00		15.00		14.00		15.00
		3	2422	15.77	17.00		17.00		15.00		17.00		14.00		16.50
		6	2437	16.01	17.50		17.50		15.00		17.50		14.00		16.50
	802.11ax-HE80 MCS0	7	2442	14.15	15.50		17.50		15.00		17.50		14.00		16.50
		8	2447	13.37	14.50		17.50		15.00		17.50		14.00		14.50
		9	2452	11.40	13.00		13.00		13.00		13.00		13.00		13.00
	802.11ax-HE160 MCS0	1	2412	16.50	17.50		17.50		15.00		17.50		14.00		16.50
		6	2437	18.46	19.50		17.50		15.00		19.00		14.00		16.50
		9	2452	18.01	19.50		17.50		15.00		19.00		14.00		16.50
	802.11ax-HE320 MCS0	10	2457	13.87	15.50		15.50		15.00		15.50		14.00		15.50
		11	2462	13.23	15.00		15.00		15.00		15.00		14.00		15.00
		3	2422	15.88	17.00		17.00		15.00		17.00		14.00		16.50
	802.11ax-HE640 MCS0	6	2437	16.16	17.50		17.50		15.00		17.50		14.00		16.50
		7	2442	14.31	16.00		16.00		15.00		16.00		14.00		16.00
		8	2447	13.52	15.00		15.00		15.00		15.00		14.00		15.00
		9	2452	11.53	13.50		13.50		13.50		13.50		13.50		13.50

5.2GHz WLAN				Ant 8 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Hotspot		For Extremity Simultaneous					
	Mode	Channel	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				
5.2GHz WLAN	802.11a 6Mbps	36	5180	17.16	18.00	Not Required	16.50	11.00	Not Required	17.00	12.00	14.50	10.50								
		40	5200	18.05	19.00		16.50			11.00		17.00		12.00	14.50	10.50					
		44	5220	18.10	19.00		16.50			11.00		17.00		12.00	14.50	10.50					
	802.11n-HT20 MCS0	48	5240	17.67	18.50	Not Required	16.50	11.00	Not Required	17.00	12.00	14.50	10.50								
		36	5180	17.97	19.00		16.50			11.00		17.00		12.00	14.50	10.50					
		40	5200	17.90	19.00		16.50			11.00		17.00		12.00	14.50	10.50					
	802.11n-HT40 MCS0	44	5220	17.73	19.00	Not Required	16.50	11.00	Not Required	17.00	12.00	14.50	10.50								
		48	5240	17.36	18.50		16.50			11.00		17.00		12.00	14.50	10.50					
		38	5190	13.23	14.50		13.23			14.50		12.00		13.23	14.50	10.50					
	802.11ac-VHT20 MCS0	46	5230	18.12	19.50	15.28	16.50	11.00	15.88	17.00	12.00	13.44	14.50	10.50							
		36	5180	18.03	19.00	16.50	11.00								17.00	12.00	14.50	10.50			
		40	5200	17.95	19.00	16.50	11.00								17.00	12.00	14.50	10.50			
	802.11ac-VHT40 MCS0	44	5220	17.98	19.00	Not Required	16.50	11.00	Not Required	17.00	12.00	14.50	10.50								
		48	5240	17.40	18.50		16.50			11.00				17.00	12.00	14.50	10.50				
		38	5190	13.29	14.50		14.50			11.00				14.50	12.00	14.50	10.50				
	802.11ac-VHT80 MCS0	46	5230	18.14	19.50	Not Required	16.50	10.13	11.00	Not Required	17.00	11.10	12.00	Not Required	14.00	9.67	10.50				
		42	5210	12.97	14.00		14.00				11.00							14.00	12.00	14.00	10.50
		36	5180	18.17	19.00		16.50				11.00							17.00	12.00	14.50	10.50
	802.11ax-HE20 MCS0	40	5200	18.07	19.00	Not Required	16.50	11.00	Not Required	17.00	12.00	14.50	10.50								
		44	5220	18.14	19.00		16.50			11.00				17.00	12.00	14.50	10.50				
		48	5240	17.50	18.50		16.50			11.00				17.00	12.00	14.50	10.50				
	802.11ax-HE40 MCS0	38	5190	13.38	14.00	Not Required	14.00	11.00	Not Required	14.00	12.00	14.50	10.50								
		46	5230	18.23	19.50		16.50			11.00				17.00	12.00	14.50	10.50				
		42	5210	13.14	14.00		14.00			11.00				14.00	12.00	14.00	10.50				

5.3GHz WLAN				Ant 8 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Extremity Simultaneous		
	Mode	Channel	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	
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.78	19.00	Not Required	17.00	12.00	17.50	Not Required	13.00	Not Required	15.50			
		56	5280	17.66	19.00		17.00							12.00	17.50	13.00
		60	5300	17.27	18.50		17.00							12.00	17.50	13.00
		64	5320	17.26	18.50		17.00							12.00	17.50	13.00
	802.11n-HT20 MCS0	52	5260	17.55	19.00	Not Required	17.00	12.00	17.50	Not Required	13.00	Not Required	15.50			
		56	5280	17.52	19.00		17.00							12.00	17.50	13.00
		60	5300	17.49	19.00		17.00							12.00	17.50	13.00
		64	5320	16.39	18.00		17.00							12.00	17.50	13.00
	802.11n-HT40 MCS0	54	5270	18.33	19.50	15.97	17.00	Not Required	12.00	16.47	17.50	Not Required	13.00	14.61	15.50	
		62	5310	13.94	15.50	13.94	15.50		12.00	13.94	15.50		13.00	13.94	15.50	
	802.11ac-VHT20 MCS0	52	5260	17.60	19.00	Not Required	17.00	12.00	17.50	Not Required	13.00	Not Required	15.50			
		56	5280	17.55	19.00		17.00							12.00	17.50	13.00
		60	5300	17.53	19.00		17.00							12.00	17.50	13.00
		64	5320	16.45	18.00		17.00							12.00	17.50	13.00
	802.11ac-VHT40 MCS0	54	5270	18.36	19.50	Not Required	17.00	12.00	17.50	Not Required	13.00	Not Required	15.50			
		62	5310	14.00	15.50		15.50							12.00	15.50	13.00
	802.11ac-VHT80 MCS0	58	5290	13.93	15.00	Not Required	15.00	11.09	12.00	Not Required	15.00	12.01	13.00	Not Required	15.00	
		52	5260	17.70	19.00		17.00									12.00
	802.11ax-HE20 MCS0	56	5280	17.63	19.00	Not Required	17.00	12.00	17.50	Not Required	13.00	Not Required	15.50			
		60	5300	17.63	19.00		17.00							12.00	17.50	13.00
64		5320	16.53	18.00	17.00		12.00							17.50	13.00	
54		5270	18.46	19.50	17.00		12.00							17.50	13.00	
802.11ax-HE40 MCS0	62	5310	14.11	15.50	Not Required	15.50	12.00	15.50	Not Required	13.00	Not Required	15.50				
	58	5290	14.06	15.00		15.00							12.00	15.00	13.00	

2.4GHz WLAN				Art 3+8 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Hotspot For Extremity Simultaneous		
	Mode	Channel	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	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	23.09	24.50	19.01	20.50	16.57	18.00	20.68	22.00	15.47	17.00	18.06	19.50	99.31
		6	2437	23.17	24.50	19.08	20.50	16.58	18.00	20.57	22.00	15.55	17.00	18.02	19.50	
		11	2462	23.29	24.50	19.31	20.50	16.73	18.00	20.70	22.00	15.70	17.00	18.29	19.50	
	802.11g 6Mbps	1	2412	22.30	23.50	Not Required	20.50	Not Required	18.00	Not Required	22.00	Not Required	17.00	Not Required	19.50	96.98
		6	2437	22.30	23.50		20.50		18.00		22.00		17.00		19.50	
		10	2457	21.56	23.00		20.50		18.00		22.00		17.00		19.50	
	802.11n-HT20 MCS0	11	2462	17.91	19.00		19.00		18.00		19.00		17.00		19.00	96.78
		1	2412	19.29	20.50		20.50		18.00		20.50		17.00		19.50	
		6	2437	21.26	22.50		20.50		18.00		22.00		17.00		19.50	
		9	2452	21.54	23.00		20.50		18.00		22.00		17.00		19.50	
		10	2457	17.20	18.50		20.50		18.00		22.00		17.00		19.50	
	802.11n-HT40 MCS0	11	2462	16.58	17.50		17.50		17.50		17.50		17.00		17.50	93.7
		3	2422	18.45	19.50		19.50		18.00		19.50		17.00		19.50	
		6	2437	19.39	20.50		20.50		18.00		20.50		17.00		19.50	
		7	2442	17.60	19.00		19.00		18.00		20.50		17.00		19.00	
		8	2447	16.76	17.00		17.00		17.00		20.50		17.00		17.00	
	802.11ac-VHT20 MCS0	9	2452	14.92	16.00		16.00		16.00		20.50		16.00		16.00	97.1
		1	2412	19.36	20.50		20.50		18.00		20.50		17.00		19.50	
		6	2437	21.30	22.50		20.50		18.00		22.00		17.00		19.50	
		9	2452	21.63	23.00		20.50		18.00		22.00		17.00		19.50	
		10	2457	17.29	18.50		20.50		18.00		22.00		17.00		18.50	
	802.11ac-VHT40 MCS0	11	2462	16.65	18.00		18.00		18.00		18.00		17.00		18.00	93.75
		3	2422	18.50	20.00		20.00		18.00		20.00		17.00		19.50	
		6	2437	19.53	20.50		20.50		18.00		20.50		17.00		19.50	
		7	2442	17.69	19.00		19.00		18.00		19.00		17.00		19.00	
		8	2447	16.85	18.50		18.50		18.00		18.50		17.00		18.50	
	802.11ax-HE20 MCS0	9	2452	14.97	16.00		16.00		16.00		16.00		16.00		16.00	95.89
		1	2412	19.47	20.50		20.50		18.00		20.50		17.00		19.50	
		6	2437	21.44	22.50		20.50		18.00		22.00		17.00		19.50	
		9	2452	21.76	22.50		20.50		18.00		22.00		17.00		19.50	
		10	2457	17.46	19.00		19.00		18.00		19.00		17.00		19.00	
	802.11ax-HE40 MCS0	11	2462	16.73	18.00		18.00		18.00		18.00		17.00		18.00	92.49
		3	2422	18.61	20.00		20.00		18.00		20.00		17.00		19.50	
		6	2437	19.68	20.50		20.50		18.00		20.50		17.00		19.50	
		7	2442	17.84	19.50		19.50		18.00		19.50		17.00		19.50	
		8	2447	17.01	18.50		18.50		18.00		18.50		17.00		18.50	
		9	2452	15.10	16.50		16.50		16.50		16.50		16.50		16.50	

5.2GHz WLAN				Art 3+8 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Hotspot		For Extremity Simultaneous		
	Mode	Channel	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	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.82	21.00	Not Required	19.50	14.00	Not Required	20.00	15.00	17.50	13.50	13.50	96.7			
		40	5200	20.82	22.00		19.50											
		44	5220	20.90	22.00		19.50											
		48	5240	20.44	21.50		19.50											
	802.11n-HT20 MCS0	36	5180	20.71	22.00	Not Required	19.50	14.00	Not Required	20.00	15.00	17.50	13.50	13.50	96.88			
		40	5200	20.68	22.00		19.50											
		44	5220	20.55	22.00		19.50											
		48	5240	20.23	21.50		19.50											
	802.11n-HT40 MCS0	38	5190	15.99	17.50	15.99	17.50	14.00	15.99	17.50	15.00	15.99	17.50	13.50	13.50	93.9		
		46	5230	21.04	22.50	18.06	19.50		18.68	20.00		16.29	17.50					
	802.11ac-VHT20 MCS0	36	5180	20.78	22.00	Not Required	19.50	14.00	Not Required	20.00	15.00	17.50	13.50	13.50	96.78			
		40	5200	20.73	22.00		19.50											
		44	5220	20.81	22.00		19.50											
		48	5240	20.27	21.50		19.50											
	802.11ac-VHT40 MCS0	38	5190	16.03	17.50	Not Required	17.50	14.00	Not Required	17.50	15.00	17.50	13.50	13.50	93.93			
		46	5230	21.06	22.50		19.50											
	802.11ac-VHT80 MCS0	42	5210	15.74	17.00	Not Required	17.00	12.81	Not Required	17.00	13.90	15.00	Not Required	17.00	12.29	88.79		
		36	5180	20.92	22.00		19.50											
	802.11ax-HE20 MCS0	40	5200	20.84	22.00	Not Required	19.50	14.00	Not Required	20.00	15.00	17.50	13.50	13.50	95.9			
		44	5220	20.94	22.00		19.50											
		48	5240	20.37	21.50		19.50											
		38	5190	16.11	17.00		17.00											
	802.11ax-HE40 MCS0	46	5230	21.14	22.50	Not Required	19.50	14.00	Not Required	20.00	15.00	17.50	13.50	13.50	92.46			
		42	5210	15.88	17.00		17.00											
	802.11ax-HE80 MCS0	42	5210	15.88	17.00	Not Required	17.00	14.00	Not Required	17.00	15.00	17.00	13.50	13.50	86.84			

5.3GHz WLAN				Art 3+8 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Extremity Simultaneous								
	Mode	Channel	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	Duty Cycle %						
5.3GHz WLAN	802.11a 6Mbps	52	5280	20.53	22.00	Not Required	20.00	15.00	Not Required	20.50	16.00	Not Required	18.50	96.7								
		56	5280	20.51	22.00		20.00			20.50			18.50									
		60	5300	20.14	21.50		20.00			20.50			18.50									
		64	5320	20.16	21.50		20.00			20.50			18.50									
	802.11n-HT20 MCS0	52	5280	20.36	22.00	Not Required	20.00	15.00	Not Required	20.50	16.00	Not Required	18.50	96.88								
		56	5280	20.41	22.00		20.00			20.50			18.50									
		60	5300	20.45	22.00		20.00			20.50			18.50									
		64	5320	19.39	21.00		20.00			20.50			18.50									
	802.11n-HT40 MCS0	54	5270	21.22	22.50	18.88	20.00	Not Required	15.00	19.30	20.50	Not Required	16.00	17.42	18.50	93.9						
		62	5310	16.92	18.50	16.92	18.50						16.00	16.92	18.50							
	802.11ac-VHT20 MCS0	52	5280	20.41	22.00	Not Required	20.00	15.00	Not Required	20.00	16.00	Not Required	18.50	96.78								
		56	5280	20.44	22.00		20.00			20.50			18.50									
		60	5300	20.50	22.00		20.00			20.50			18.50									
		64	5320	19.44	21.00		20.00			20.50			18.50									
		802.11ac-VHT40 MCS0	54	5270	21.24		22.50			18.50			15.00		Not Required	20.00	16.00	Not Required	18.50	93.93		
			62	5310	16.96		18.50												18.50		18.50	18.50
		802.11ac-VHT80 MCS0	58	5290	16.76		18.00			Not Required			18.00		14.06	15.00	Not Required	18.00	14.85	16.00	18.00	88.79
			52	5280	20.52		22.00						20.00					20.50			18.50	
	802.11ax-HE20 MCS0	56	5280	20.52	22.00	Not Required	20.00	15.00	Not Required	20.00	16.00	Not Required	18.50	95.9								
		60	5300	20.59	22.00		20.00			20.50			18.50									
64		5320	19.52	21.00	20.00		20.50			18.50												
802.11ax-HE40 MCS0		54	5270	21.33	22.50		18.50			15.00			Not Required		20.00	16.00	Not Required	18.50	92.46			
62	5310	17.05	18.50	18.50	18.50	18.50																
802.11ax-HE80 MCS0	58	5290	16.91	18.00	18.00	15.00	18.00	16.00	18.00	86.84												



5.5GHz WLAN				Ant 3 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous For Body worn Simultaneous		For Body worn Standalone		For Extremity Simultaneous	
5.5GHz WLAN	Mode	Channel	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	100	5500	17.40	18.50	Not Required	17.00	Not Required	12.00	Not Required	17.50	Not Required	15.00
		116	5580	17.28	18.50		17.00		12.00		17.50		15.00
		132	5660	16.90	18.50		17.00		12.00		17.50		15.00
		140	5700	17.49	19.00		17.00		12.00		17.50		15.00
	802.11n-HT20 MCS0	100	5500	17.28	18.50	Not Required	17.00	Not Required	12.00	Not Required	17.50	Not Required	15.00
		116	5580	17.58	19.00		17.00		12.00		17.50		15.00
		132	5660	17.35	19.00		17.00		12.00		17.50		15.00
		140	5700	17.42	19.00		17.00		12.00		17.50		15.00
	802.11n-HT40 MCS0	102	5510	13.01	14.50	Not Required	13.01	Not Required	12.00	Not Required	13.01	Not Required	14.50
		110	5550	18.17	20.00		15.88		12.00		16.44		13.76
		134	5670	17.71	19.50		15.76		12.00		16.38		13.60
		100	5500	17.30	19.00	Not Required	17.00	Not Required	12.00	Not Required	17.50	Not Required	15.00
	802.11ac- VHT20 MCS0	116	5580	17.58	19.00		17.00		12.00		17.50		15.00
		132	5660	17.40	19.00		17.00		12.00		17.50		15.00
		140	5700	17.46	19.00		17.00		12.00		17.50		15.00
	802.11ac- VHT40 MCS0	102	5510	13.01	14.50	Not Required	14.50	Not Required	12.00	Not Required	14.50	Not Required	14.50
		110	5550	18.18	20.00		17.00		12.00		17.50		15.00
		134	5670	17.71	19.50		17.00		12.00		17.50		15.00
		106	5530	12.79	14.50	Not Required	14.50	Not Required	10.88	Not Required	14.50	Not Required	14.50
	802.11ax- HE20 MCS0	100	5500	17.38	19.00		17.00		12.00		17.50		15.00
		116	5580	17.72	19.00		17.00		12.00		17.50		15.00
		132	5660	17.48	19.00		17.00		12.00		17.50		15.00
		140	5700	17.54	19.00		17.00	Not Required	12.00	Not Required	17.50	Not Required	15.00
	802.11ax- HE40 MCS0	102	5510	13.10	14.50	Not Required	14.50		12.00		14.50		14.50
		110	5550	18.30	20.00		17.00		12.00		17.50		15.00
		134	5670	17.83	19.50		17.00		12.00		17.50		15.00
		106	5530	12.89	14.50	Not Required	14.50		12.00		14.50		14.50

5.8GHz WLAN				Ant 3 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous For Extremity Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Hotspot	
5.8GHz WLAN	Mode	Channel	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	149	5745	18.08	19.50	Not Required	18.50	Not Required	14.00	Not Required	16.00	Not Required	11.00	Not Required	13.00
		157	5785	18.14	19.50		18.50		14.00		16.00		11.00		13.00
		165	5825	17.58	19.50		18.50		14.00		16.00		11.00		13.00
	802.11n-HT20 MCS0	149	5745	17.90	19.00	Not Required	18.50	Not Required	14.00	Not Required	16.00	Not Required	11.00	Not Required	13.00
		157	5785	18.02	19.00		18.50		14.00		16.00		11.00		13.00
		165	5825	17.46	19.00		18.50		14.00		16.00		11.00		13.00
	802.11n-HT40 MCS0	151	5755	17.89	19.50	Not Required	18.50	Not Required	14.00	Not Required	16.00	Not Required	11.00	Not Required	13.00
		159	5795	17.78	19.50		18.50		14.00		16.00		11.00		13.00
		149	5745	17.98	19.00		18.50		14.00		16.00		11.00		13.00
	802.11ac- VHT20 MCS0	157	5785	18.07	19.00	Not Required	18.50	Not Required	14.00	Not Required	16.00	Not Required	11.00	Not Required	13.00
		165	5825	17.49	19.00		18.50		14.00		16.00		11.00		13.00
		151	5755	17.92	19.50		18.50		14.00		16.00		11.00		13.00
	802.11ac- VHT40 MCS0	159	5795	17.76	19.50	Not Required	18.50	Not Required	14.00	Not Required	16.00	Not Required	11.00	Not Required	13.00
		155	5775	18.19	19.50		17.10		12.71		14.77		9.81		11.83
		149	5745	18.10	19.50		18.50		14.00		16.00		11.00		13.00
	802.11ax- HE20 MCS0	157	5785	18.16	19.50	Not Required	18.50	Not Required	14.00	Not Required	16.00	Not Required	11.00	Not Required	13.00
		165	5825	17.60	19.50		18.50		14.00		16.00		11.00		13.00
		151	5755	18.01	19.50		18.50		14.00		16.00		11.00		13.00
	802.11ax- HE40 MCS0	159	5795	17.88	19.50	Not Required	18.50	Not Required	14.00	Not Required	16.00	Not Required	11.00	Not Required	13.00
		155	5775	18.29	19.50		18.50		14.00		16.00		11.00		13.00
		149	5745	18.10	19.50		18.50		14.00		16.00		11.00		13.00



5.5GHz WLAN				Ant 6 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous For Body worn Simultaneous		For Body worn Standalone		For Extremity Simultaneous	
	Mode	Channel	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
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.47	18.50		17.00		12.00		17.50		15.00
		116	5580	17.08	18.50		17.00		12.00		17.50		15.00
		132	5660	17.01	18.50		17.00		12.00		17.50		15.00
		140	5700	17.55	19.00		17.00		12.00		17.50		15.00
	802.11n-HT20 MCS0	100	5500	17.32	18.50	Not Required	17.00		12.00	Not Required	17.50	Not Required	15.00
		116	5580	17.34	19.00		17.00		12.00		17.50		15.00
		132	5660	17.40	19.00		17.00		12.00		17.50		15.00
		140	5700	17.44	19.00		17.00		12.00		17.50		15.00
	802.11n-HT40 MCS0	102	5510	12.98	14.50	12.98	14.50	Not Required	12.00	12.98	14.50	12.98	14.50
		110	5550	18.29	20.00		15.64		12.00		16.28		13.73
		134	5670	17.64	19.50		15.71		12.00		16.37		13.68
		100	5500	17.35	19.00		17.00		12.00		17.50		15.00
	802.11ac- VHT20 MCS0	116	5580	17.38	19.00		17.00		12.00		17.50		15.00
		132	5660	17.46	19.00		17.00		12.00		17.50		15.00
		140	5700	17.49	19.00		17.00		12.00		17.50		15.00
		102	5510	13.02	14.50		14.50		12.00		14.50		14.50
	802.11ac- VHT40 MCS0	110	5550	18.34	20.00		17.00		12.00		17.50		15.00
		134	5670	17.70	19.50		17.00		12.00		17.50		15.00
		106	5530	12.84	14.50		14.50	10.64	12.00		14.50	Not Required	14.50
	802.11ac- VHT80 MCS0	100	5500	17.42	19.00	Not Required	17.00		12.00		17.50		15.00
		116	5580	17.48	19.00		17.00		12.00		17.50		15.00
		132	5660	17.53	19.00		17.00		12.00		17.50		15.00
		140	5700	17.56	19.00		17.00		12.00		17.50		15.00
	802.11ax- HE20 MCS0	102	5510	13.15	14.50		14.50	Not Required	12.00		14.50		14.50
		110	5550	18.42	20.00		17.00		12.00		17.50		15.00
		134	5670	17.80	19.50		17.00		12.00		17.50		15.00
	802.11ax- HE80 MCS0	106	5530	12.95	14.50		14.50		12.00		14.50		14.50

5.8GHz WLAN				Ant 6 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous For Extremity Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Hotspot	
	Mode	Channel	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
5.8GHz WLAN	802.11a 6Mbps	149	5745	18.36	19.50		18.50		14.00		16.00		11.00		13.00
		157	5785	18.47	19.50		18.50		14.00		16.00		11.00		13.00
		165	5825	18.09	19.50		18.50		14.00		16.00		11.00		13.00
	802.11n-HT20 MCS0	149	5745	18.07	19.00		18.50		14.00		16.00		11.00		13.00
		157	5785	18.14	19.00		18.50		14.00		16.00		11.00		13.00
		165	5825	17.91	19.00		18.50		14.00		16.00		11.00		13.00
	802.11n-HT40 MCS0	151	5755	18.19	19.50	Not Required	18.50	Not Required	14.00		16.00		11.00		13.00
		159	5795	18.08	19.50		18.50		14.00		16.00		11.00		13.00
		149	5745	18.15	19.00		18.50		14.00		16.00		11.00		13.00
	802.11ac- VHT20 MCS0	157	5785	18.19	19.00		18.50		14.00		16.00		11.00		13.00
		165	5825	17.94	19.00		18.50		14.00		16.00		11.00		13.00
		151	5755	18.21	19.50		18.50		14.00		16.00		11.00		13.00
	802.11ac- VHT40 MCS0	159	5795	18.09	19.50		18.50		14.00		16.00		11.00		13.00
		155	5775	18.32	19.50	17.44	18.50	12.74	14.00	14.89	16.00	9.77	11.00	11.85	13.00
		149	5745	18.39	19.50		18.50		14.00		16.00		11.00		13.00
	802.11ax- HE20 MCS0	157	5785	18.49	19.50	Not Required	18.50	Not Required	14.00		16.00		11.00		13.00
		165	5825	18.12	19.50		18.50		14.00		16.00		11.00		13.00
		151	5755	18.32	19.50		18.50		14.00		16.00		11.00		13.00
	802.11ax- HE40 MCS0	159	5795	18.19	19.50		18.50		14.00		16.00		11.00		13.00
		155	5775	18.44	19.50		18.50		14.00		16.00		11.00		13.00



5.5GHz WLAN				Art 3+8 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous For Body worn Simultaneous		For Body worn Standalone		For Extremity Simultaneous		
	Mode	Channel	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	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.45	21.50	20.00	20.00	15.00	15.00	20.50	20.50	18.00	18.00	96.70
		116	5580	20.18	21.50									
		132	5660	19.97	21.50									
		140	5700	20.53	22.00									
	802.11n-HT20 MCS0	100	5500	20.30	21.50	Not Required	20.00	15.00	Not Required	20.50	20.50	18.00	18.00	96.88
		116	5580	20.46	22.00									
		132	5660	20.39	22.00									
		140	5700	20.44	22.00									
	802.11n-HT40 MCS0	102	5510	16.01	17.50	16.01	17.50	Not Required	15.00	16.01	17.50	16.01	17.50	93.90
		110	5550	21.24	23.00									
		134	5670	20.69	22.50									
	802.11ac-VHT20 MCS0	100	5500	20.34	22.00	20.00	20.00	15.00	15.00	20.50	20.50	18.00	18.00	96.78
		116	5580	20.49	22.00									
		132	5660	20.44	22.00									
		140	5700	20.49	22.00									
	802.11ac-VHT40 MCS0	102	5510	16.03	17.50	17.50	20.00	15.00	15.00	17.50	20.50	17.50	18.00	93.93
		110	5550	21.27	23.00									
		134	5670	20.72	22.50									
	802.11ac-VHT80 MCS0	106	5530	15.82	17.50	Not Required	20.00	17.50	13.77	15.00	17.50	17.50	17.50	88.79
		100	5500	20.41	22.00									
	802.11ax-HE20 MCS0	116	5580	20.61	22.00	20.00	20.00	15.00	15.00	20.50	20.50	18.00	18.00	95.90
		132	5660	20.52	22.00									
		140	5700	20.56	22.00									
		102	5510	16.14	17.50									
	802.11ax-HE40 MCS0	110	5550	21.37	23.00	20.00	20.00	15.00	15.00	20.50	20.50	18.00	18.00	92.46
		134	5670	20.83	22.50									
		106	5530	15.93	17.50									
	802.11ax-HE80 MCS0	106	5530	15.93	17.50	17.50		15.00		17.50		17.50		86.84

5.8GHz WLAN				Art 3+8 For Full Power For Extremity Standalone		For Head Receiver on		For Head Simultaneous For Extremity Simultaneous		For Body worn Standalone		For Body worn Simultaneous		For Hotspot							
	Mode	Channel	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	Duty Cycle					
5.8GHz WLAN	802.11a 6Mbps	149	5745	21.23	22.50		21.50		17.00		19.00		14.00		16.00	96.7					
		157	5785	21.32	22.50												21.50	17.00	19.00	14.00	16.00
		165	5825	20.85	22.50												21.50	17.00	19.00	14.00	16.00
	802.11n-HT20 MCS0	149	5745	21.00	22.00		21.50	17.00	17.00	19.00	14.00	16.00	14.00	16.00	96.88						
		157	5785	21.09	22.00											21.50	17.00	19.00	14.00	16.00	
		165	5825	20.70	22.00											21.50	17.00	19.00	14.00	16.00	
	802.11n-HT40 MCS0	151	5755	21.06	22.50	Not Required	21.50	Not Required	17.00	19.00	14.00	16.00	14.00	16.00	93.9						
		159	5795	20.94	22.50											21.50	17.00	19.00	14.00	16.00	
		149	5745	21.08	22.00											21.50	17.00	19.00	14.00	16.00	
	802.11ac-VHT20 MCS0	157	5785	21.14	22.00		21.50	17.00	17.00	19.00	14.00	16.00	14.00	16.00	96.78						
		165	5825	20.73	22.00											21.50	17.00	19.00	14.00	16.00	
	802.11ac-VHT40 MCS0	151	5755	21.06	22.50		21.50	17.00	17.00	19.00	14.00	16.00	14.00	16.00	93.93						
		159	5795	20.94	22.50											21.50	17.00	19.00	14.00	16.00	
	802.11ac-VHT80 MCS0	155	5775	21.26	22.50	20.28	21.50	15.74	17.00	17.84	19.00	12.80	14.00	14.85	16.00	88.79					
		149	5745	21.26	22.50												21.50	17.00	19.00	14.00	16.00
	802.11ax-HE20 MCS0	157	5785	21.34	22.50		21.50	17.00	17.00	19.00	14.00	16.00	14.00	16.00	95.9						
		165	5825	20.88	22.50											21.50	17.00	19.00	14.00	16.00	
		151	5755	21.18	22.50											Not Required	21.50	Not Required	17.00	19.00	14.00
	802.11ax-HE40 MCS0	159	5795	21.05	22.50	21.50	17.00	19.00	14.00	16.00											
	802.11ax-HE80 MCS0	155	5775	21.38	22.50		21.50		17.00		19.00		14.00	16.00	86.84						



2.4GHz WLAN			Ant 8 Simultaneous For WLAN 2.4G Ant 8+BT			
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	9.97	11.00	99.31
		6	2437	10.23	11.00	
		11	2462	9.86	11.00	
	802.11g 6Mbps	1	2412	10.25	11.00	96.98
		6	2437	10.05	11.00	
		11	2462	9.95	11.00	
	802.11n-HT20 MCS0	1	2412	10.17	11.00	96.78
		6	2437	10.08	11.00	
		11	2462	9.81	11.00	
	802.11n-HT40 MCS0	3	2422	10.17	11.00	93.70
		6	2437	9.92	11.00	
		9	2452	10.05	11.00	
	802.11ac-VHT20 MCS0	1	2412	10.20	11.00	97.10
		6	2437	10.12	11.00	
		11	2462	9.85	11.00	
	802.11ac-VHT40 MCS0	3	2422	10.21	11.00	93.75
		6	2437	9.94	11.00	
		9	2452	10.11	11.00	
	802.11ax-HE20 MCS0	1	2412	10.23	11.00	95.89
		6	2437	10.15	11.00	
		11	2462	9.89	11.00	
	802.11ax-HE40 MCS0	3	2422	10.23	11.00	92.49
		6	2437	9.98	11.00	
		9	2452	10.16	11.00	

BR / EDR

Mode	Channel	Frequency (MHz)	Average power (dBm) Simultaneous For WLAN 2.4G Ant 8+BT		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	6.31	4.11	4.13
	CH 39	2441	6.26	4.01	4.04
	CH 78	2480	6.29	4.05	4.01
Tune-up Limit			7.00	5.00	5.00

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm) Simultaneous For WLAN 2.4G Ant 8+BT
LE	CH 00	2402	5.46
	CH 19	2440	5.61
	CH 39	2480	5.84
Tune-up Limit			7.00

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm) Simultaneous For WLAN 2.4G Ant 8+BT
LE	CH 00	2402	5.37
	CH 19	2440	5.70
	CH 39	2480	5.86
Tune-up Limit			7.00

BR / EDR

Mode	Channel	Frequency (MHz)	Average power (dBm) For Full Power&Head&Body wear&Extremity Standalone			Average power (dBm) For Receiver on For Hotspot&Head Simultaneous			Average power (dBm) For Body-worn Standalone		
			1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.30	14.48	14.54	9.42	6.27	6.38	11.31	8.44	8.63
	CH 39	2441	18.29	15.59	15.56	10.01	6.74	6.74	12.03	8.90	8.74
	CH 78	2480	17.73	14.88	14.86	9.68	6.90	7.02	11.47	8.83	9.00
Tune-up Limit			19.00	16.00	16.50	11.00	8.00	8.00	13.00	10.00	10.50

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	6.72
	CH 19	2440	7.26
	CH 39	2480	7.44
Tune-up Limit			9.00

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	6.82
	CH 19	2440	7.16
	CH 39	2480	7.37
Tune-up Limit			9.00