

Band	WCDMA II Modem A Ant0			Tune-up Limit (dBm)	WCDMA IV Modem A Ant0			Tune-up Limit (dBm)	WCDMA V Modem A Ant0			Tune-up Limit (dBm)
	9262	9460	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938	1852.4	1537	1638	1738	1712.4	4357	4407	4458	826.4
Frequency (MHz)	1852.4	1860	1907.6		1732.6	1752.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99 RMC 12.7Mbps	22.82	22.86	22.79	24.50	18.92	18.94	18.88	20.50	23.14	23.22	23.21	24.50
3GPP Rel 6 HSDPA Subtest-1	21.85	21.76	21.84	23.50	17.99	17.90	17.81	19.50	22.21	22.19	22.38	23.50
3GPP Rel 6 HSDPA Subtest-2	21.87	21.81	21.69	23.50	17.98	17.89	17.89	19.50	22.19	22.27	22.26	23.50
3GPP Rel 6 HSDPA Subtest-3	21.25	21.28	21.19	23.00	17.39	17.37	17.45	19.00	21.69	21.80	21.85	23.00
3GPP Rel 6 HSDPA Subtest-4	21.32	21.42	21.30	23.00	17.45	17.43	17.32	19.00	21.70	21.71	21.79	23.00
3GPP Rel 6 DC-HSDPA Subtest-1	21.71	21.90	21.70	23.50	17.94	17.91	17.94	19.50	22.15	22.28	22.31	23.50
3GPP Rel 6 DC-HSDPA Subtest-2	21.90	21.74	21.67	23.50	17.98	17.93	17.87	19.50	22.19	22.19	22.33	23.50
3GPP Rel 6 DC-HSDPA Subtest-3	21.43	21.37	21.19	23.00	17.41	17.50	17.45	19.00	21.67	21.73	21.83	23.00
3GPP Rel 6 DC-HSDPA Subtest-4	21.25	21.29	21.21	23.00	17.48	17.41	17.36	19.00	21.69	21.64	21.76	23.00
3GPP Rel 6 HSUPA Subtest-1	21.82	21.79	21.81	23.50	17.83	17.83	17.81	19.50	22.07	22.19	22.32	23.50
3GPP Rel 6 HSUPA Subtest-2	19.76	19.83	19.85	21.50	15.91	15.98	15.93	17.50	20.07	20.15	20.39	21.50
3GPP Rel 6 HSUPA Subtest-3	20.87	20.87	20.76	22.50	16.88	16.96	16.90	18.50	21.21	21.21	21.27	22.50
3GPP Rel 6 HSUPA Subtest-4	19.85	19.90	19.73	21.50	15.84	16.00	15.90	17.50	20.14	20.27	20.32	21.50
3GPP Rel 6 HSUPA Subtest-5	21.90	21.95	21.77	23.50	17.94	17.89	17.87	19.50	22.14	22.19	22.28	23.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	19.36	19.36	19.30	21.00	15.50	15.40	15.38	17.00	19.67	19.84	19.75	21.00

Band 2 Modem A Ant0

RF [MHz]

Modem [MHz]

RB Size [MHz]

RB Offset [MHz]

Power Low Chy [dBm]

Power High Chy [dBm]

Power Low Chy [dBm]

Power High Chy [dBm]

Turn-on [ms]

Turn-off [ms]

MPH [dB]

MPH [dB]

Channel

Frequency [MHz]

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Band 12 Modem A Ant0										
BW [MHz]	Modemat ion	RB Size	RB Offset	Power Low Ch./Freq.	Power Medio Ch./Freq.	Power High Ch./Freq.	Time- up Int. [dB]	MPR [dB]		
Channel										
Frequency [MHz]										
10	QPSK	1	0	23.41	23.48	23.47			24.5	0
10	QPSK	1	26	23.42	23.42	23.41				
10	QPSK	1	49	23.39	23.41	23.39				
10	QPSK	25	0	22.46	22.55	22.54			23.5	1
10	QPSK	25	12	22.37	22.41	22.48				
10	QPSK	25	25	22.47	22.54	22.53				
10	16QAM	1	0	22.46	22.55	22.51			23.5	1
10	16QAM	1	26	22.48	22.48	22.54				
10	16QAM	1	49	22.41	22.45	22.47				
10	16QAM	25	0	21.39	21.52	21.54			22.5	2
10	16QAM	25	12	21.45	21.48	21.43				
10	16QAM	25	25	21.34	21.43	21.47				
10	16QAM	50	0	21.38	21.43	21.41			22.5	2
10	16QAM	1	0	21.39	21.50	21.42				
10	16QAM	1	26	21.34	21.41	21.44				
10	16QAM	1	49	21.38	21.45	21.43			21.5	3
10	16QAM	25	0	20.48	20.48	20.41				
10	16QAM	25	12	20.41	20.45	20.43				
10	16QAM	25	25	20.35	20.50	20.41			19.5	5
10	16QAM	50	0	20.41	20.48	20.52				
10	256QAM	1	0	18.39	18.53	18.43				
10	256QAM	1	26	18.38	18.47	18.45			19.5	5
10	256QAM	1	49	18.39	18.47	18.49				
10	256QAM	25	0	18.38	18.50	18.44				
10	256QAM	25	12	18.38	18.50	18.44			19.5	5
10	256QAM	25	25	18.46	18.50	18.44				
10	256QAM	50	0	18.40	18.48	18.50				
Channel										
Frequency [MHz]										
5	QPSK	1	0	23.29	23.31	23.36			24.5	0
5	QPSK	1	12	23.31	23.38	23.38				
5	QPSK	1	24	23.38	23.34	23.36				
5	QPSK	12	0	22.35	22.39	22.50			23.5	1
5	QPSK	12	7	22.27	22.28	22.40				
5	QPSK	12	13	22.30	22.51	22.47				
5	QPSK	25	0	22.49	22.45	22.47			23.5	1
5	16QAM	1	0	22.41	22.50	22.33				
5	16QAM	1	12	22.31	22.35	22.51				
5	16QAM	12	0	21.37	21.41	21.51			22.5	2
5	16QAM	12	7	21.29	21.35	21.25				
5	16QAM	12	13	21.36	21.42	21.30				
5	16QAM	25	0	21.51	21.59	21.27			22.5	2
5	16QAM	25	0	21.23	21.40	21.38				
5	16QAM	12	13	21.35	21.39	21.39				
5	16QAM	1	24	21.25	21.40	21.25			21.5	3
5	16QAM	12	0	20.31	20.44	20.28				
5	16QAM	12	7	20.31	20.56	20.31				
5	16QAM	12	13	20.15	20.43	20.35			19.5	5
5	16QAM	25	0	20.28	20.33	20.45				
5	16QAM	1	0	20.21	20.39	20.30				
5	256QAM	1	0	18.22	18.34	18.38			19.5	5
5	256QAM	1	12	18.21	18.39	18.42				
5	256QAM	12	0	18.28	18.40	18.38				
5	256QAM	12	7	18.34	18.41	18.40			19.5	5
5	256QAM	12	13	18.35	18.41	18.41				
5	256QAM	25	0	18.35	18.41	18.41				
Channel										
Frequency [MHz]										
3	QPSK	1	0	23.32	23.39	23.34			24.5	0
3	QPSK	1	8	23.18	23.26	23.26				
3	QPSK	1	14	23.34	23.28	23.37				
3	QPSK	8	0	22.40	22.32	22.38			23.5	1
3	QPSK	8	4	22.29	22.38	22.34				
3	QPSK	8	7	22.40	22.50	22.37				
3	QPSK	16	0	22.32	22.49	22.42			23.5	1
3	16QAM	1	0	22.38	22.49	22.42				
3	16QAM	1	8	22.37	22.40	22.45				
3	16QAM	1	14	21.34	21.39	21.36			22.5	2
3	16QAM	8	4	21.40	21.43	21.37				
3	16QAM	8	7	21.38	21.40	21.43				
3	16QAM	16	0	21.27	21.30	21.38			22.5	2
3	16QAM	1	0	21.22	21.42	21.27				
3	16QAM	1	8	21.20	21.34	21.38				
3	16QAM	1	14	21.35	21.32	21.37			21.5	3
3	16QAM	8	0	20.42	20.51	20.29				
3	16QAM	8	4	20.33	20.52	20.40				
3	16QAM	8	7	20.25	20.45	20.30			19.5	5
3	16QAM	15	0	20.30	20.38	20.39				
3	256QAM	1	0	18.27	18.37	18.39				
3	256QAM	1	8	18.26	18.34	18.38			19.5	5
3	256QAM	1	14	18.31	18.37	18.45				
3	256QAM	8	0	18.32	18.53	18.28				
3	256QAM	8	4	18.31	18.44	18.42			19.5	5
3	256QAM	8	7	18.34	18.40	18.30				
3	256QAM	15	0	18.20	18.35	18.45				
Channel										
Frequency [MHz]										
1.4	QPSK	1	0	23.32	23.39	23.34			24.5	0
1.4	QPSK	1	3	23.35	23.32	23.39				
1.4	QPSK	1	5	23.34	23.44	23.30				
1.4	QPSK	3	0	23.30	23.41	23.41			23.5	1
1.4	QPSK	3	1	23.29	23.39	23.43				
1.4	QPSK	3	3	23.25	23.30	23.33				
1.4	QPSK	6	0	22.35	22.46	22.42			23.5	1
1.4	16QAM	1	0	22.37	22.45	22.41				
1.4	16QAM	1	3	22.40	22.49	22.55				
1.4	16QAM	1	5	22.39	22.53	22.43			22.5	2
1.4	16QAM	3	0	22.45	22.55	22.49				
1.4	16QAM	3	1	22.42	22.49	22.42				
1.4	16QAM	3	3	22.37	22.49	22.52			22.5	2
1.4	16QAM	6	0	21.41	21.55	21.55				
1.4	16QAM	1	0	21.37	21.55	21.48				
1.4	16QAM	1	3	21.46	21.45	21.45			22.5	2
1.4	16QAM	1	5	21.35	21.40	21.42				
1.4	16QAM	3	0	21.39	21.58	21.41				
1.4	16QAM	3	1	21.45	21.46	21.47			21.5	3
1.4	16QAM	3	3	21.38	21.52	21.52				
1.4	16QAM	6	0	20.42	20.52	20.49				
1.4	256QAM	1	0	18.40	18.55	18.43			19.5	5
1.4	256QAM	1	3	18.49	18.41	18.50				
1.4	256QAM	3	0	18.39	18.41	18.53				
1.4	256QAM	3	1	18.44	18.46	18.48			19.5	5
1.4	256QAM	3	3	18.41	18.44	18.41				
1.4	256QAM	6	0	18.41	18.55	18.52				

Band 13 Modem A Ant0										
BW [MHz]	Modulat ion	RB Size	RB Offset	Power/ Low Ch./Freq.	Power/ Medio Ch./Freq.	Power/ High Ch./Freq.	Time- up Int. [dB]	MPR [dB]		
Channel										
Frequency [MHz]										
10	QPSK	1	0		23.12			24.5	0	
10	QPSK	1	26		23.01					
10	QPSK	1	49		22.97					
10	QPSK	25	0		22.55			23.5	1	
10	QPSK	25	12		22.57					
10	QPSK	25	25		22.07					
10	16QAM	1	0		22.86			23.5	1	
10	16QAM	1	26		22.85					
10	16QAM	1	49		22.95					
10	16QAM	25	0		21.54			22.5	2	
10	16QAM	25	12		21.54					
10	16QAM	25	25		21.10					
10	16QAM	50	0		21.10			22.5	2	
10	16QAM	50	0		21.10					
10	16QAM	50	0		21.10					
10	64QAM	1	26		21.10			21.5	3	
10	64QAM	1	49		21.06					
10	64QAM	1	72		21.06					
10	64QAM	25	12		20.13			19.5	5	
10	64QAM	25	25		20.08					
10	64QAM	25	25		19.87					
10	256QAM	1	0		19.37			19.5	5	
10	256QAM	1	26		18.37					
10	256QAM	1	49		18.37					
10	256QAM	25	0		18.66			19.5	5	
10	256QAM	25	12		18.47					
10	256QAM	25	25		18.47					
Channel										
Frequency [MHz]										
30	QPSK	1	0	23.05	23.06	23.05		24.5	0	
30	QPSK	1	26	22.93	22.94	22.93				
30	QPSK	1	52	22.84	22.89	22.81				
30	QPSK	1	78	22.84	22.89	22.81		24.0	0	
30	QPSK	1	104	22.93	22.94	22.87				
30	QPSK	1	130	22.93	22.94	22.87				
30	QPSK	12	19	21.99	22.10	22.08		23.5	1	
30	QPSK	12	19	22.07	22.09	22.06				
30	QPSK	12	19	22.03	22.03	22.03				
30	16QAM	1	0	21.98	22.20	22.07		23.5	1	
30	16QAM	1	12	22.07	22.09	22.07				
30	16QAM	1	24	21.96	22.09	22.07				
30	16QAM	12	18	21.08	21.07	21.01		22.5	2	
30	16QAM	12	18	21.05	21.09	20.99				
30	16QAM	12	19	21.00	21.04	21.00				
30	16QAM	1	20.93	21.14	21.04	21.01		22.5	2	
30	16QAM	1	21.03	21.08	21.05					
30	16QAM	12	21	21.03	21.08	21.05				
30	64QAM	1	24	21.05	21.13	21.04		21.5	3	
30	64QAM	12	0	19.95	20.04	20.08				
30	64QAM	12	0	20.01	20.06	20.01				
30	64QAM	12	18	20.03	20.20	20.20		19.5	5	
30	64QAM	25	0	19.97	20.09	20.01				
30	64QAM	25	0	18.31	18.47	18.38				
30	256QAM	1	12	18.34	18.35	18.37		19.5	5	
30	256QAM	12	0	18.29	18.34	18.27				
30	256QAM	12	0	18.35	18.46	18.38				
30	256QAM	12	7	18.26	18.46	18.38		19.5	5	
30	256QAM	12	7	18.26	18.39	18.30				
30	256QAM	12	19	18.36	18.44	18.25				
30	256QAM	25	0	18.35	18.44	18.38		19.5	5	
30	256QAM	25	0	18.35	18.44	18.38				
30	256QAM	25	0	18.35	18.44	18.38				

Band 25 Modem A Ant0										
BW (MHz)	Modem (MHz)	RB Size (MHz)	RB Offset (MHz)	Power Low Ch. / Freq. (dBm)	Power Mid Ch. / Freq. (dBm)	Power High Ch. / Freq. (dBm)	Turn-on time (s)	Turn-off time (s)	MRR (dB)	MRR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.98	22.00	21.98				
20	QPSK	1	49	21.93	21.99	21.78	23.5	0		
20	QPSK	1	99	21.96	21.98	21.98				
20	QPSK	50	0	22.00	22.03	21.93				
20	QPSK	50	24	21.91	21.91	21.88	23.5	0		
20	QPSK	50	50	21.94	21.96	21.90				
20	QPSK	100	0	22.00	22.01	21.99				
20	16QAM	1	0	21.99	22.00	22.01				
20	16QAM	1	49	21.97	22.01	21.97	23.5	0		
20	16QAM	1	99	21.97	22.01	21.97				
20	16QAM	50	0	21.93	21.93	21.99				
20	16QAM	50	24	21.94	21.91	21.76	23.5	0		
20	16QAM	50	50	21.96	22.00	21.80				
20	16QAM	100	0	22.00	21.99	21.81				
20	64QAM	1	0	21.98	22.02	21.91				
20	64QAM	1	49	21.96	21.91	21.88	23.5	0		
20	64QAM	1	99	22.02	21.98	21.88				
20	64QAM	50	0	21.93	20.92	20.94	22.5	1		
20	64QAM	50	24	20.91	20.92	20.94				
20	64QAM	50	50	21.96	21.98	20.93				
20	256QAM	1	0	20.91	20.91	20.91				
20	256QAM	1	49	18.97	18.94	18.85	20.5	3		
20	256QAM	1	99	19.04	19.10	18.94				
20	256QAM	50	0	18.95	18.94	18.84				
20	256QAM	50	24	19.04	18.99	19.05	20.5	3		
20	256QAM	50	50	18.96	18.88	18.85				
20	256QAM	100	0	18.95	18.88	18.85				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.03	21.95	21.93				
15	QPSK	1	31	21.78	21.81	21.75	23.5	0		
15	QPSK	1	74	21.88	21.91	21.90				
15	QPSK	50	0	21.89	21.93	21.77				
15	QPSK	50	24	21.82	21.78	21.79	23.5	0		
15	QPSK	50	50	21.86	21.87	21.84				
15	QPSK	75	0	21.93	21.89	21.77				
15	16QAM	1	0	21.84	21.81	21.80				
15	16QAM	1	31	21.82	21.94	21.79	23.5	0		
15	16QAM	1	74	21.85	21.89	21.91				
15	16QAM	50	0	21.83	21.77	21.79				
15	16QAM	50	24	21.85	21.77	21.68	23.5	0		
15	16QAM	50	50	21.86	21.91	21.88				
15	16QAM	25	12	21.89	21.78	21.70	23.5	0		
15	16QAM	25	25	21.86	21.90	21.85				
15	16QAM	50	0	20.93	20.80	20.94				
15	16QAM	50	24	20.87	20.94	20.94	22.5	1		
15	16QAM	50	50	20.95	21.02	20.87				
15	64QAM	1	0	21.84	21.91	21.79				
15	64QAM	1	31	21.86	21.83	21.85	23.5	0		
15	64QAM	1	74	21.93	21.90	21.92				
15	64QAM	50	0	20.93	20.87	20.95				
15	64QAM	50	24	20.87	20.94	20.94	22.5	1		
15	64QAM	50	50	20.95	21.02	20.87				
15	64QAM	75	0	20.81	20.86	20.72				
15	256QAM	1	0	18.84	18.84	18.84				
15	256QAM	1	31	18.84	18.85	18.75	20.5	3		
15	256QAM	1	74	18.88	18.95	18.82				
15	256QAM	50	0	18.86	18.86	18.71				
15	256QAM	50	24	18.95	18.85	18.91	20.5	3		
15	256QAM	50	50	18.87	18.78	18.75				
15	256QAM	75	0	18.87	18.84	18.84				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.04	21.94	21.94				
10	QPSK	1	12	21.88	21.83	21.79	23.5	0		
10	QPSK	1	24	21.89	21.87	21.90				
10	QPSK	12	0	21.86	21.88	21.73				
10	QPSK	12	7	21.85	21.75	21.70	23.5	0		
10	QPSK	25	0	21.87	21.81	21.81				
10	QPSK	25	12	21.85	21.86	21.80				
10	16QAM	1	0	21.83	21.85	21.89				
10	16QAM	1	12	21.85	21.87	21.89	23.5	0		
10	16QAM	1	24	21.82	21.84	21.82				
10	16QAM	12	0	21.78	21.80	21.75				
10	16QAM	12	7	21.83	21.80	21.68	23.5	0		
10	16QAM	12	14	21.88	21.93	21.72				
10	64QAM	1	0	21.86	21.93	21.72				
10	64QAM	1	12	21.88	21.87	21.88	23.5	0		
10	64QAM	1	24	21.86	21.80	21.74				
10	64QAM	12	0	21.81	21.91	21.78				
10	64QAM	12	7	20.97	20.83	20.96	22.5	1		
10	64QAM	12	14	20.85	20.81	20.78				
10	64QAM	25	0	20.90	20.90	20.87				
10	64QAM	25	7	20.79	20.76	20.74	23.5	1		
10	256QAM	1	0	18.97	18.81	18.94				
10	256QAM	1	12	18.83	18.88	18.69	20.5	3		
10	256QAM	1	24	18.90	18.90	18.85				
10	256QAM	12	0	18.81	18.79	18.79				
10	256QAM	12	7	18.90	18.83	18.92	20.5	3		
10	256QAM	12	14	18.90	18.77	18.81				
10	256QAM	25	0	18.98	18.87	18.79				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.04	21.94	21.94				
5	QPSK	1	12	21.88	21.83	21.79	23.5	0		
5	QPSK	1	24	21.89	21.87	21.90				
5	QPSK	12	0	21.86	21.88	21.73				
5	QPSK	12	7	21.85	21.75	21.70	23.5	0		
5	QPSK	25	0	21.87	21.81	21.81				
5	QPSK	25	12	21.85	21.86	21.80				
5	16QAM	1	0	21.83	21.85	21.89				
5	16QAM	1	12	21.85	21.87	21.89	23.5	0		
5	16QAM	1	24	21.82	21.84	21.82				
5	16QAM	12	0	21.78	21.80	21.75				
5	16QAM	12	7	21.83	21.80	21.68	23.5	0		
5	16QAM	12	14	21.88	21.93	21.72				
5	64QAM	1	0	21.86	21.93	21.72				
5	64QAM	1	12	21.88	21.87	21.88	23.5	0		
5	64QAM	1	24	21.86	21.80	21.74				
5	64QAM	12	0	21.81	21.91	21.78				
5	64QAM	12	7	20.97	20.83	20.96	22.5	1		
5	64QAM	12	14	20.85	20.81	20.78				
5	64QAM	25	0	20.90	20.90	20.87				
5	64QAM	25	7	20.79	20.76	20.74	23.5	1		
5	256QAM	1	0	18.97	18.81	18.94				
5	256QAM	1	12	18.83	18.88	18.69	20.5	3		
5	256QAM	1	24	18.90	18.90	18.85				
5	256QAM	12	0	18.81	18.79	18.79				
5	256QAM	12	7	18.90	18.83	18.92	20.5	3		
5	256QAM	12	14	18.90	18.77	18.81				
5	256QAM	25	0	18.98	18.87	18.79				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.99	21.94	21.95				
3	QPSK	1	8	21.87	21.78	21.86	23.5	0		
3	QPSK	1	14	21.93	21.85	21.89				
3	QPSK	8	0	21.90	21.91	21.87				
3	QPSK	8	4	21.76	21.78	21.83	23.5	0		
3	QPSK	8	7	21.82	21.87	21.76				
3	QPSK	15	0	21.96	21.87	21.80				
3	16QAM	1	0	21.88	21.89	21.87				
3	16QAM	1	8	21.87	21.92	21.84	23.5	0		
3	16QAM	1	14	21.81	21.88	21.86				
3	16QAM	8	0	21.84	21.83	21.77				
3	16QAM	8	4	21.88	21.81	21.71	23.5	0		
3	16QAM	15	0	21.87	21.87	21.71				
3	16QAM	15	0	21.96	21.89	21.73				
3	64QAM	1	0	21.92	21.96	21.72				
3	64QAM	1	8	21.83	21.83	21.76	23.5	0		
3	64QAM	1	14	21.96	21.92	21.83				
3	64QAM	8	0	20.96	20.96	20.94				
3	64QAM	8	4	20.88	20.79	20.72	22.5	1		
3	64QAM	8	7	20.93	20.95	20.83				
3	256QAM	1	0	18.89	18.80	18.95				
3	256QAM	1	8	18.91	18.86	18.80	20.5	3		
3	256QAM	1	14	18.91	18.93	18.85				
3	256QAM	8	0	18.84	18.85	18.75	20.5	3		
3	256QAM	8	4	18.93	18.84	18.93				
3	256QAM	8	7	18.93	18.78	18.76				
3	256QAM	15	0	18.94	18.86	18.85				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.95	18.96	18.94				
1.4	QPSK	1	8	21.76	21.78	21.90	23.5	0		
1.4	QPSK	1	14	21.82	21.84	21.94				
1.4	QPSK	8	0	21.80	21.90	21.78				
1.4	QPSK	8	4	21.85	21.88	21.75	23.5	0		
1.4	QPSK	8	7	21.81	21.87	21.73				
1.4	QPSK	3	0	21.81	21.87	21.72				
1.4	QPSK	3	8							

Band 66 Modem A Ant0									
BW (MHz)	Modem ID	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Time-to-Start (dBm)	APRS (dB)	
Channel									
Frequency (MHz)				13072	13022	13072			
20	QPSK	1	0	18.75	18.88	18.75			
20	QPSK	1	40	18.68	18.74	18.73			
20	QPSK	1	80	18.70	18.79	18.70			
20	QPSK	50	0	18.66	18.70	18.66			
20	QPSK	50	24	18.54	18.65	18.63			
20	QPSK	50	50	18.67	18.75	18.59			
20	QPSK	100	0	18.66	18.74	18.69			
20	16QAM	1	0	18.71	18.78	18.66			
20	16QAM	1	40	18.55	18.65	18.63			
20	16QAM	1	80	18.59	18.72	18.65			
20	16QAM	50	0	18.73	18.83	18.67			
20	16QAM	50	24	18.63	18.64	18.65			
20	16QAM	50	50	18.66	18.72	18.70			
20	16QAM	100	0	18.66	18.85	18.72			
20	64QAM	1	0	18.61	18.64	18.67			
20	64QAM	1	40	18.50	18.77	18.66			
20	64QAM	1	80	18.72	18.85	18.72			
20	64QAM	50	0	18.59	18.67	18.67			
20	64QAM	50	24	18.62	18.69	18.67			
20	64QAM	50	50	18.70	18.78	18.64			
20	64QAM	100	0	18.55	18.65	18.64			
20	256QAM	1	40	18.55	18.56	18.55			
20	256QAM	1	80	18.55	18.48	18.55			
20	256QAM	1	99	18.27	18.31	18.32			
20	256QAM	50	0	18.23	18.43	18.27			
20	256QAM	50	24	18.37	18.44	18.32			
20	256QAM	50	50	18.27	18.39	18.33			
20	256QAM	100	0	18.24	18.40	18.28			
Channel				13071.5	13022	13072.5			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	18.64	18.70	18.64			
15	QPSK	1	37	18.62	18.62	18.69			
15	QPSK	1	74	18.58	18.71	18.63			
15	QPSK	36	0	18.57	18.70	18.51			
15	QPSK	36	20	18.69	18.51	18.52			
15	QPSK	36	36	18.55	18.67	18.79			
15	16QAM	1	0	18.58	18.69	18.60			
15	16QAM	1	37	18.69	18.56	18.55			
15	16QAM	1	74	18.62	18.62	18.67			
15	16QAM	36	0	18.61	18.80	18.55			
15	16QAM	36	20	18.55	18.51	18.52			
15	16QAM	36	36	18.59	18.60	18.60			
15	16QAM	75	0	18.56	18.73	18.67			
15	64QAM	1	0	18.59	18.50	18.55			
15	64QAM	1	37	18.71	18.47	18.43			
15	64QAM	1	74	18.57	18.77	18.53			
15	64QAM	36	0	18.50	18.63	18.63			
15	64QAM	36	20	18.67	18.60	18.63			
15	64QAM	36	36	18.55	18.57	18.55			
15	64QAM	75	0	18.62	18.60	18.52			
15	256QAM	1	0	18.55	18.54	18.55			
15	256QAM	1	37	18.23	18.36	18.31			
15	256QAM	1	74	18.13	18.20	18.21			
15	256QAM	36	0	18.23	18.36	18.31			
15	256QAM	36	20	18.28	18.41	18.25			
15	256QAM	36	36	18.20	18.28	18.23			
15	256QAM	75	0	18.27	18.35	18.19			
Channel				13069.5	13022	13069.5			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	18.70	18.70	18.70			
10	QPSK	1	25	18.53	18.62	18.68			
10	QPSK	1	49	18.58	18.66	18.65			
10	QPSK	1	73	18.67	18.73	18.62			
10	QPSK	25	12	18.77	18.61	18.69			
10	QPSK	25	25	18.67	18.66	18.51			
10	16QAM	1	0	18.66	18.68	18.53			
10	16QAM	1	25	18.68	18.56	18.51			
10	16QAM	1	49	18.68	18.60	18.58			
10	16QAM	25	0	18.65	18.74	18.60			
10	16QAM	25	12	18.59	18.52	18.60			
10	16QAM	25	25	18.60	18.66	18.69			
10	16QAM	50	0	18.56	18.74	18.63			
10	64QAM	1	0	18.61	18.60	18.63			
10	64QAM	1	24	18.54	18.70	18.55			
10	64QAM	1	49	18.62	18.73	18.59			
10	64QAM	25	0	18.73	18.58	18.63			
10	64QAM	25	12	18.60	18.65	18.55			
10	64QAM	25	25	18.59	18.59	18.51			
10	64QAM	50	0	18.42	18.58	18.51			
10	256QAM	1	0	18.13	18.26	18.21			
10	256QAM	1	25	18.17	18.43	18.29			
10	256QAM	1	49	18.21	18.18	18.25			
10	256QAM	25	0	18.25	18.31	18.12			
10	256QAM	25	12	18.23	18.36	18.26			
10	256QAM	25	25	18.16	18.30	18.26			
10	256QAM	50	0	18.21	18.32	18.21			
Channel				13199.7	13022	13199.7			
Frequency (MHz)				1722.5	1745	1772.5			
5	QPSK	1	0	18.70	18.70	18.70			
5	QPSK	1	12	18.57	18.57	18.62			
5	QPSK	1	24	18.63	18.73	18.57			
5	QPSK	12	0	18.68	18.74	18.63			
5	QPSK	12	7	18.73	18.58	18.58			
5	QPSK	12	13	18.58	18.69	18.53			
5	QPSK	24	0	18.55	18.68	18.62			
5	16QAM	1	0	18.63	18.73	18.55			
5	16QAM	1	12	18.59	18.58	18.57			
5	16QAM	1	24	18.75	18.44	18.54			
5	16QAM	12	0	18.66	18.70	18.60			
5	16QAM	12	7	18.58	18.61	18.53			
5	16QAM	12	13	18.69	18.62	18.55			
5	16QAM	24	0	18.58	18.62	18.68			
5	64QAM	1	0	18.51	18.51	18.62			
5	64QAM	1	12	18.64	18.73	18.53			
5	64QAM	1	24	18.67	18.80	18.61			
5	64QAM	12	0	18.61	18.58	18.58			
5	64QAM	12	7	18.47	18.55	18.58			
5	64QAM	12	13	18.64	18.66	18.69			
5	64QAM	25	0	18.50	18.61	18.52			
5	256QAM	1	0	18.23	18.33	18.11			
5	256QAM	1	12	18.21	18.36	18.22			
5	256QAM	1	24	18.12	18.16	18.26			
5	256QAM	12	0	18.24	18.28	18.15			
5	256QAM	12	7	18.30	18.32	18.23			
5	256QAM	12	13	18.16	18.30	18.22			
5	256QAM	25	0	18.22	18.36	18.22			
Channel				15199.7	13022	15199.7			
Frequency (MHz)				1718.5	1745	1772.5			
3	QPSK	1	0	18.63	18.76	18.63			
3	QPSK	1	8	18.59	18.63	18.59			
3	QPSK	1	14	18.58	18.65	18.63			
3	QPSK	8	0	18.58	18.73	18.53			
3	QPSK	8	4	18.71	18.61	18.60			
3	QPSK	8	7	18.64	18.69	18.55			
3	QPSK	16	0	18.59	18.62	18.55			
3	16QAM	1	0	18.57	18.69	18.62			
3	16QAM	1	8	18.52	18.59	18.52			
3	16QAM	1	14	18.50	18.59	18.53			
3	16QAM	8	0	18.70	18.73	18.62			
3	16QAM	8	4	18.57	18.51	18.58			
3	16QAM	8	7	18.61	18.65	18.60			
3	16QAM	16	0	18.51	18.40	18.57			
3	64QAM	1	0	18.61	18.62	18.63			
3	64QAM	1	14	18.63	18.77	18.63			
3	64QAM	8	0	18.62	18.64	18.62			
3	64QAM	8	4	18.48	18.55	18.58			
3	64QAM	8	7	18.63	18.72	18.53			
3	256QAM	1	0	18.23	18.30	18.15			
3	256QAM	1	8	18.18	18.41	18.32			
3	256QAM	1	14	18.16	18.31	18.17			
3	256QAM	8	0	18.21	18.26	18.22			
3	256QAM	8	4	18.52	18.37	18.29			
3	256QAM	8	7	18.18	18.36	18.21			
3	256QAM	16	0	18.22	18.26	18.17			
Channel				1718.5	1745	1772.5			
Frequency (MHz)				1718.5	1745	1772.5			
1.4	QPSK	1	0	18.53	18.84	18.57			
1.4	QPSK	1	8	18.49	18.80	18.57			
1.4	QPSK	1	14	18.58	18.69	18.62			
1.4	QPSK	8	0	18.58	18.73	18.53			
1.4	QPSK	8	4	18.71	18.61	18.60			
1.4	QPSK	8	7	18.64	18.69	18.55			
1.4	QPSK	16	0	18.59	18.62	18.55			
1.4	16QAM	1	0	18.57	18.69	18.62	</		

PC3 Band 38 Modem A Ant0											
BW	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				37850	38000	38150					
Frequency (MHz)				2580	2595	2610					
20	QPSK	1	0	21.75	21.84	21.74	23.5	0			
20	QPSK	1	49	21.72	21.69	21.65					
20	QPSK	1	99	21.64	21.78	21.65					
20	QPSK	50	0	21.73	21.82	21.81	23.5	0			
20	QPSK	50	24	21.75	21.80	21.67					
20	QPSK	50	50	21.75	21.81	21.64					
20	QPSK	100	0	21.73	21.77	21.76	23.5	0			
20	16QAM	1	0	21.75	21.74	21.83					
20	16QAM	1	49	21.65	21.73	21.71					
20	16QAM	1	99	21.69	21.75	21.76	23.5	0			
20	16QAM	50	0	21.21	21.34	21.27					
20	16QAM	50	24	21.18	21.40	21.31					
20	16QAM	50	50	21.33	21.38	21.17	23	0.5			
20	16QAM	100	0	21.33	21.39	21.31					
20	64QAM	1	0	21.19	21.34	21.23					
20	64QAM	1	49	21.19	21.34	21.26	23	0.5			
20	64QAM	1	99	21.25	21.35	21.20					
20	64QAM	50	0	20.23	20.36	20.22					
20	64QAM	50	24	20.28	20.40	20.18	22	1.5			
20	64QAM	50	50	20.20	20.26	20.30					
20	64QAM	100	0	20.23	20.29	20.32					
20	256QAM	1	0	18.33	18.40	18.22	20	3.5			
20	256QAM	1	49	18.29	18.27	18.19					
20	256QAM	1	99	18.28	18.43	18.23					
20	256QAM	50	0	18.33	18.45	18.36	20	3.5			
20	256QAM	50	24	18.40	18.37	18.16					
20	256QAM	50	50	18.36	18.40	18.28					
20	256QAM	100	0	18.22	18.40	18.17					
Channel				37825	38000	38175	Tune-up limit (dBm)				
Frequency (MHz)				2577.5	2595	2612.5	MPR (dB)				
15	QPSK	1	0	21.72	21.66	21.67	23.5	0			
15	QPSK	1	37	21.68	21.64	21.53					
15	QPSK	1	74	21.53	21.62	21.56					
15	QPSK	36	0	21.69	21.68	21.55	23.5	0			
15	QPSK	36	20	21.59	21.70	21.82					
15	QPSK	36	39	21.64	21.75	21.80					
15	QPSK	75	0	21.64	21.66	21.71	23.5	0			
15	16QAM	1	0	21.60	21.66	21.58					
15	16QAM	1	37	21.60	21.61	21.56					
15	16QAM	1	74	21.64	21.60	21.63	23.5	0			
15	16QAM	36	0	21.14	21.27	21.22					
15	16QAM	36	20	21.06	21.32	21.25					
15	16QAM	36	39	21.20	21.34	21.10	23	0.5			
15	16QAM	75	0	21.17	21.29	21.19					
15	64QAM	1	0	21.13	21.26	21.17					
15	64QAM	1	37	21.13	21.19	21.21	23	0.5			
15	64QAM	1	74	21.15	21.29	21.15					
15	64QAM	36	0	20.17	20.30	20.09					
15	64QAM	36	20	20.22	20.29	20.02	22	1.5			
15	64QAM	36	39	20.09	20.15	20.16					
15	64QAM	75	0	20.18	20.15	20.19					
15	256QAM	1	0	18.28	18.26	18.08	20	3.5			
15	256QAM	1	37	18.19	18.16	18.13					
15	256QAM	1	74	18.13	18.29	18.13					
15	256QAM	36	0	18.20	18.33	18.27	20	3.5			
15	256QAM	36	20	18.31	18.26	18.12					
15	256QAM	36	39	18.27	18.27	18.13					
15	256QAM	75	0	18.08	18.35	18.03					
Channel				37800	38000	38200	Tune-up limit (dBm)				
Frequency (MHz)				2575	2595	2615	MPR (dB)				
10	QPSK	1	0	21.69	21.78	21.69	23.5	0			
10	QPSK	1	25	21.62	21.52	21.58					
10	QPSK	1	49	21.60	21.73	21.67					
10	QPSK	25	0	21.58	21.71	21.51	23.5	0			
10	QPSK	25	12	21.70	21.73	21.56					
10	QPSK	25	25	21.61	21.70	21.58					
10	QPSK	50	0	21.61	21.66	21.65	23.5	0			
10	16QAM	1	0	21.70	21.81	21.52					
10	16QAM	1	25	21.54	21.68	21.65					
10	16QAM	1	49	21.62	21.69	21.60	23.5	0			
10	16QAM	25	0	21.09	21.22	21.20					
10	16QAM	25	12	21.10	21.25	21.18					
10	16QAM	25	25	21.20	21.27	21.03	23	0.5			
10	16QAM	50	0	21.21	21.23	21.19					
10	64QAM	1	0	21.11	21.29	21.08					
10	64QAM	1	25	21.03	21.23	21.11	23	0.5			
10	64QAM	1	49	21.19	21.22	21.05					
10	64QAM	25	0	20.10	20.21	20.17					
10	64QAM	25	12	20.16	20.33	20.07	22	1.5			
10	64QAM	25	25	20.06	20.17	20.21					
10	64QAM	50	0	20.14	20.21	20.26					
10	256QAM	1	0	18.23	18.30	18.14	20	3.5			
10	256QAM	1	25	18.21	18.21	18.14					
10	256QAM	1	49	18.16	18.36	18.12					
10	256QAM	25	0	18.23	18.33	18.29	20	3.5			
10	256QAM	25	12	18.24	18.29	18.01					
10	256QAM	25	25	18.25	18.33	18.16					
10	256QAM	50	0	18.12	18.24	18.12					
Channel				37775	38000	38225	Tune-up limit (dBm)				
Frequency (MHz)				2572.5	2595	2617.5	MPR (dB)				
5	QPSK	1	0	21.66	21.73	21.59	23.5	0			
5	QPSK	1	12	21.68	21.64	21.51					
5	QPSK	1	24	21.56	21.63	21.50					
5	QPSK	12	0	21.59	21.75	21.53	23.5	0			
5	QPSK	12	7	21.62	21.74	21.59					
5	QPSK	12	13	21.69	21.71	21.55					
5	QPSK	25	0	21.60	21.68	21.72	23.5	0			
5	16QAM	1	0	21.69	21.63	21.56					
5	16QAM	1	12	21.65	21.65	21.57					
5	16QAM	1	24	21.57	21.66	21.62	23.5	0			
5	16QAM	12	0	21.06	21.26	21.19					
5	16QAM	12	7	21.05	21.35	21.22					
5	16QAM	12	13	21.24	21.34	21.08	23	0.5			
5	16QAM	25	0	21.26	21.29	21.23					
5	64QAM	1	0	21.10	21.22	21.19					
5	64QAM	1	12	21.09	21.21	21.19	23	0.5			
5	64QAM	1	24	21.12	21.20	21.13					
5	64QAM	12	0	20.08	20.22	20.17					
5	64QAM	12	7	20.22	20.25	20.06	22	1.5			
5	64QAM	12	13	20.13	20.21	20.21					
5	64QAM	25	0	20.10	20.21	20.16					
5	256QAM	1	0	18.21	18.27	18.15	20	3.5			
5	256QAM	1	12	18.15	18.18	18.07					
5	256QAM	1	24	18.23	18.28	18.15					
5	256QAM	12	0	18.26	18.39	18.25	20	3.5			
5	256QAM	12	7	18.36	18.22	18.08					
5	256QAM	12	13	18.24	18.27	18.21					
5	256QAM	25	0	18.09	18.31	18.10					

PC2 Band 38 Modem A Ant0									
BW [MHz]	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.75	21.84	21.74			
20	QPSK	1	49	21.72	21.69	21.65	23.5	0	
20	QPSK	1	99	21.64	21.78	21.65			
20	QPSK	50	0	21.73	21.82	21.61			
20	QPSK	50	24	21.75	21.80	21.78	23.5	0	
20	QPSK	50	50	21.75	21.81	21.64			
20	QPSK	100	0	21.73	21.77	21.76			
20	16QAM	1	0	21.75	21.74	21.63			
20	16QAM	1	49	21.65	21.73	21.71	23.5	0	
20	16QAM	1	99	21.69	21.75	21.66			
20	16QAM	50	0	21.69	21.77	21.66			
20	16QAM	50	24	21.74	21.70	21.60	23.5	0	
20	16QAM	50	50	21.66	21.77	21.78			
20	16QAM	100	0	21.67	21.76	21.71			
20	16QAM	1	0	21.69	21.75	21.66			
20	84QAM	1	49	21.59	21.76	21.52	23.5	0	
20	84QAM	1	99	21.68	21.64	21.68			
20	84QAM	50	0	21.68	21.65	21.54			
20	84QAM	50	24	21.73	21.76	21.60	23.5	0	
20	84QAM	50	50	21.69	21.67	21.56			
20	84QAM	100	0	21.63	21.75	21.79			
20	256QAM	1	0	19.74	19.88	19.71			
20	256QAM	1	49	19.70	19.68	19.66	21.5	2	
20	256QAM	1	99	19.85	19.73	19.70			
20	256QAM	50	0	19.69	19.78	19.73			
20	256QAM	50	24	19.77	19.75	19.71	21.5	2	
20	256QAM	50	50	19.67	19.70	19.71			
20	256QAM	100	0	19.65	19.82	19.69			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	21.71	21.80	21.70			
15	QPSK	1	37	21.61	21.55	21.57	23.5	0	
15	QPSK	1	74	21.53	21.71	21.52			
15	QPSK	36	0	21.78	21.75	21.63			
15	QPSK	36	39	21.67	21.70	21.52	23.5	0	
15	QPSK	75	0	21.87	21.72	21.82			
15	16QAM	1	0	21.68	21.62	21.52			
15	16QAM	1	37	21.63	21.57	21.62	23.5	0	
15	16QAM	1	74	21.56	21.64	21.63			
15	16QAM	36	0	21.54	21.61	21.54			
15	16QAM	36	20	21.69	21.55	21.56	23.5	0	
15	16QAM	36	39	21.57	21.71	21.68			
15	16QAM	75	0	21.66	21.56	21.61			
15	84QAM	1	0	21.50	21.67	21.51			
15	84QAM	1	37	21.57	21.69	21.54	23.5	0	
15	84QAM	1	74	21.63	21.55	21.58			
15	84QAM	36	0	21.54	21.54	21.56			
15	84QAM	36	20	21.60	21.56	21.51	23.5	0	
15	84QAM	36	39	21.57	21.71	21.59			
15	84QAM	75	0	21.56	21.62	21.69			
15	256QAM	1	0	19.70	19.73	19.63			
15	256QAM	1	37	19.58	19.59	19.53	21.5	2	
15	256QAM	1	74	19.68	19.66	19.67			
15	256QAM	36	20	19.74	19.79	19.66			
15	256QAM	36	39	19.58	19.65	19.67	21.5	2	
15	256QAM	75	0	19.58	19.71	19.62			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	21.71	21.80	21.70			
10	QPSK	25	0	21.63	21.75	21.67	23.5	0	
10	QPSK	1	49	21.53	21.71	21.52			
10	QPSK	25	0	21.58	21.78	21.53			
10	QPSK	25	12	21.69	21.74	21.58	23.5	0	
10	QPSK	50	0	21.67	21.70	21.52			
10	16QAM	1	0	21.68	21.62	21.52			
10	16QAM	1	25	21.53	21.62	21.65	23.5	0	
10	16QAM	1	49	21.56	21.64	21.63			
10	16QAM	25	0	21.54	21.61	21.54			
10	16QAM	25	12	21.69	21.55	21.56	23.5	0	
10	16QAM	50	0	21.57	21.65	21.59			
10	16QAM	50	0	21.51	21.66	21.61			
10	84QAM	1	0	21.50	21.67	21.54			
10	84QAM	1	25	21.54	21.69	21.52	23.5	0	
10	84QAM	1	49	21.63	21.51	21.58			
10	84QAM	25	0	21.55	21.65	21.54			
10	84QAM	25	12	21.60	21.66	21.51	23.5	0	
10	84QAM	25	25	21.57	21.65	21.59			
10	84QAM	50	0	21.53	21.62	21.69	23.5	0	
10	256QAM	1	0	19.70	19.73	19.63			
10	256QAM	1	25	19.58	19.59	19.53	21.5	2	
10	256QAM	1	49	19.60	19.63	19.62			
10	256QAM	25	0	19.58	19.66	19.57			
10	256QAM	25	12	19.74	19.79	19.66	21.5	2	
10	256QAM	25	25	19.58	19.65	19.67			
10	256QAM	50	0	19.58	19.71	19.62			
Channel				3777.5	38000	38222.5			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	21.63	21.78	21.67			
5	QPSK	1	12	21.59	21.56	21.58	23.5	0	
5	QPSK	1	24	21.57	21.72	21.58			
5	QPSK	12	0	21.62	21.76	21.51			
5	QPSK	12	7	21.84	21.69	21.60	23.5	0	
5	QPSK	12	13	21.65	21.74	21.51			
5	QPSK	25	0	21.57	21.76	21.62			
5	16QAM	1	0	21.65	21.61	21.52			
5	16QAM	1	12	21.54	21.58	21.59	23.5	0	
5	16QAM	1	24	21.64	21.70	21.70			
5	16QAM	12	0	21.56	21.65	21.54			
5	16QAM	12	7	21.58	21.65	21.53	23.5	0	
5	16QAM	12	13	21.61	21.62	21.62			
5	16QAM	25	0	21.53	21.67	21.61			
5	84QAM	1	0	21.52	21.60	21.51			
5	84QAM	1	12	21.53	21.66	21.51	23.5	0	
5	84QAM	1	24	21.67	21.74	21.67			
5	84QAM	12	0	21.60	21.59	21.53			
5	84QAM	12	7	21.62	21.63	21.52	23.5	0	
5	84QAM	12	13	21.61	21.51	21.54			
5	256QAM	1	0	19.60	19.73	19.58			
5	256QAM	1	12	19.60	19.55	19.60	21.5	2	
5	256QAM	1	24	19.52	19.57	19.57			
5	256QAM	12	0	19.60	19.64	19.57			
5	256QAM	12	7	19.71	19.77	19.57	21.5	2	
5	256QAM	12	13	19.63	19.65	19.56			
5	256QAM	25	0	19.52	19.70	19.63			

PC3 Band 41 Modem A Ant0												
BW (MHz)	Modulat ion	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	21.76	21.83	21.87	21.77	21.65	23.5	0		
20	QPSK	1	49	21.62	21.70	21.70	21.72	21.63				
20	QPSK	1	99	21.62	21.74	21.73	21.81	21.62	23.5	0		
20	QPSK	50	0	21.75	21.83	21.85	21.77	21.67				
20	QPSK	50	24	21.74	21.68	21.57	21.82	21.66	23.5	0		
20	QPSK	50	50	21.63	21.63	21.71	21.84	21.58				
20	QPSK	100	0	21.73	21.81	21.82	21.78	21.53	23.5	0		
20	16QAM	1	0	21.78	21.61	21.70	21.78	21.59				
20	16QAM	1	49	21.58	21.73	21.82	21.67	21.64	23.5	0		
20	16QAM	1	99	21.84	21.75	21.70	21.71	21.61				
20	16QAM	50	0	21.23	21.39	21.32	21.33	21.14	23	0.5		
20	16QAM	50	24	21.19	21.31	21.37	21.29	21.11				
20	16QAM	50	50	21.29	21.39	21.36	21.23	21.17	23	0.5		
20	16QAM	100	0	21.26	21.36	21.27	21.30	21.20				
20	64QAM	1	0	21.30	21.38	21.27	21.19	21.15	23	0.5		
20	64QAM	1	49	21.28	21.39	21.37	21.27	21.15				
20	64QAM	1	99	21.22	21.31	21.36	21.25	21.12	22	1.5		
20	64QAM	50	0	20.31	20.37	20.31	20.30	20.15				
20	64QAM	50	24	20.29	20.39	20.28	20.22	20.09	22	1.5		
20	64QAM	50	50	20.30	20.28	20.35	20.29	20.13				
20	64QAM	100	0	20.30	20.38	20.29	20.26	20.20	20	3.5		
20	256QAM	1	0	18.43	18.43	18.45	18.35	18.28				
20	256QAM	1	49	18.44	18.50	18.42	18.31	18.18	20	3.5		
20	256QAM	1	99	18.43	18.40	18.40	18.45	18.18				
20	256QAM	50	0	18.41	18.50	18.37	18.41	18.33	20	3.5		
20	256QAM	50	24	18.40	18.53	18.37	18.34	18.23				
20	256QAM	50	50	18.34	18.43	18.38	18.30	18.14	20	3.5		
20	256QAM	100	0	18.47	18.38	18.51	18.43	18.17				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	21.63	21.78	21.79	21.60	21.58	24	0		
15	QPSK	1	37	21.65	21.68	21.59	21.63	21.51				
15	QPSK	1	74	21.66	21.64	21.65	21.78	21.61	23.5	0		
15	QPSK	36	0	21.80	21.75	21.73	21.72	21.59				
15	QPSK	36	20	21.63	21.60	21.52	21.71	21.61	23.5	0		
15	QPSK	36	39	21.51	21.50	21.56	21.71	21.54				
15	QPSK	75	0	21.61	21.66	21.76	21.69	21.52	23.5	0		
15	16QAM	1	0	21.67	21.55	21.64	21.69	21.54				
15	16QAM	1	37	21.54	21.61	21.78	21.60	21.60	23.5	0		
15	16QAM	1	74	21.69	21.61	21.63	21.59	21.53				
15	16QAM	36	0	21.08	21.27	21.22	21.26	21.26	23	0.5		
15	16QAM	36	20	21.04	21.22	21.28	21.21	21.02				
15	16QAM	36	39	21.23	21.34	21.28	21.10	21.08	23	0.5		
15	16QAM	75	0	21.13	21.32	21.13	21.23	21.05				
15	64QAM	1	0	21.18	21.25	21.18	21.13	21.01	23	0.5		
15	64QAM	1	37	21.20	21.32	21.26	21.18	21.07				
15	64QAM	1	74	21.13	21.26	21.27	21.12	21.01	22	1.5		
15	64QAM	36	0	20.16	20.25	20.27	20.19	20.03				
15	64QAM	36	20	20.18	20.27	20.14	20.14	20.14	22	1.5		
15	64QAM	36	39	20.21	20.19	20.22	20.22	20.08				
15	64QAM	75	0	20.24	20.24	20.17	20.11	20.10	20	3.5		
15	256QAM	1	0	18.30	18.39	18.32	18.21	18.15				
15	256QAM	1	37	18.33	18.34	18.27	18.25	18.08	20	3.5		
15	256QAM	1	74	18.27	18.26	18.27	18.35	18.13				
15	256QAM	36	0	18.34	18.45	18.34	18.32	18.20	20	3.5		
15	256QAM	36	20	18.28	18.48	18.28	18.20	18.09				
15	256QAM	36	39	18.24	18.34	18.30	18.25	18.07	20	3.5		
15	256QAM	75	0	18.35	18.25	18.37	18.31	18.08				
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	21.72	21.68	21.75	21.73	21.60	24	0		
10	QPSK	1	25	21.59	21.65	21.58	21.69	21.61				
10	QPSK	1	49	21.58	21.70	21.63	21.80	21.57	23.5	0		
10	QPSK	25	0	21.67	21.69	21.72	21.63	21.56				
10	QPSK	25	12	21.60	21.53	21.55	21.70	21.58	23.5	0		
10	QPSK	25	25	21.52	21.54	21.63	21.71	21.53				
10	QPSK	50	0	21.60	21.76	21.76	21.67	21.54	23.5	0		
10	16QAM	1	0	21.63	21.54	21.56	21.74	21.52				
10	16QAM	1	25	21.53	21.60	21.74	21.60	21.55	23.5	0		
10	16QAM	1	49	21.73	21.60	21.63	21.59	21.56				
10	16QAM	25	0	21.11	21.27	21.21	21.20	21.03	23	0.5		
10	16QAM	25	12	21.12	21.24	21.29	21.21	21.01				
10	16QAM	25	25	21.16	21.34	21.27	21.15	21.04	22	1.5		
10	16QAM	50	0	21.20	21.25	21.11	21.18	21.07				
10	64QAM	1	0	21.16	21.26	21.23	21.12	21.11	23	0.5		
10	64QAM	1	25	21.15	21.30	21.27	21.19	21.10				
10	64QAM	1	49	21.18	21.27	21.28	21.21	21.05	22	1.5		
10	64QAM	25	0	20.20	20.26	20.24	20.19	20.02				
10	64QAM	25	12	20.19	20.30	20.14	20.12	20.03	20	3.5		
10	64QAM	25	25	20.28	20.15	20.25	20.19	20.02				
10	64QAM	50	0	20.17	20.27	20.20	20.15	20.08	20	3.5		
10	256QAM	1	0	18.38	18.27	18.34	18.27	18.17				
10	256QAM	1	25	18.30	18.34	18.37	18.21	18.05	20	3.5		
10	256QAM	1	49	18.32	18.35	18.35	18.31	18.07				
10	256QAM	25	0	18.31	18.40	18.22	18.29	18.25	20	3.5		
10	256QAM	25	12	18.25	18.38	18.27	18.27	18.14				
10	256QAM	25	25	18.20	18.29	18.23	18.16	18.06	20	3.5		
10	256QAM	50	0	18.34	18.24	18.42	18.30	18.07				
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501.5	2545.8	2593	2640.3	2687.5				
5	QPSK	1	0	21.74	21.63	21.81	21.62	21.55	24	0		
5	QPSK	1	24	21.54	21.63	21.69	21.75	21.54				
5	QPSK	12	0	21.66	21.67	21.78	21.62	21.57	23.5	0		
5	QPSK	12	7	21.63	21.62	21.55	21.70	21.58				
5	QPSK	12	13	21.58	21.68	21.57	21.78	21.53	23.5	0		
5	QPSK	25	0	21.61	21.69	21.72	21.67	21.58				
5	16QAM	1	0	21.61	21.53	21.64	21.70	21.59	23.5	0		
5	16QAM	1	12	21.56	21.60	21.76	21.63	21.52				
5	16QAM	1	24	21.78	21.66	21.62	21.56	21.52	23.5	0		
5	16QAM	12	0	21.16	21.35	21.17	21.26	21.03				
5	16QAM	12	12	21.12	21.16	21.22	21.21	21.03	23	0.5		
5	16QAM	12	13	21.20	21.23	21.28	21.16	21.09				
5	16QAM	25	0	21.16	21.27	21.11	21.21	21.05	22	1.5		
5	64QAM	1	0	21.20	21.24	21.23	21.07	21.01				
5	64QAM	1	12	21.13	21.25	21.25	21.20	21.04	23	0.5		
5	64QAM	1	24	21.08	21.27	21.27	21.18	21.08				
5	64QAM	12	0	20.19	20.31	20.15	20.21	20.05	22	1.5		
5	64QAM	12	7	20.17	20.32	20.15	20.17	20.05				
5	64QAM	12	13	20.20	20.21	20.27	20.25	20.09	20	3.5		
5	256QAM	1	0	18.36	18.33	18.32	18.31	18.24				
5	256QAM	1	12	18.40	18.44	18.38	18.26	18.16	20	3.5		
5	256QAM	1	24	18.27	18.34	18.34	18.41	18.11				
5	256QAM	12	0	18.26	18.41	18.30	18.29	18.27	20	3.5		
5	256QAM	12	7	18.25	18.39	18.28	18.21	18.07				
5	256QAM	12	13	18.20	18.29	18.18	18.16	18.22	20	3.5		
5	256QAM	25	0	18.40	18.26	18.38	18.27	18.12				

Band 2 Modem A Ant2											Band 4 Modem A Ant2											Band 7 Modem A Ant2										
BW (MHz)	Modem (MHz)	RB Size (MHz)	RB Offset (MHz)	Power Low Ch. / Freq. (MHz)	Power Middle Ch. / Freq. (MHz)	Power High Ch. / Freq. (MHz)	Time (sec)	MPE (dB)			BW (MHz)	Modem (MHz)	RB Size (MHz)	RB Offset (MHz)	Power Low Ch. / Freq. (MHz)	Power Middle Ch. / Freq. (MHz)	Power High Ch. / Freq. (MHz)	Time (sec)	MPE (dB)		BW (MHz)	Modem (MHz)	RB Size (MHz)	RB Offset (MHz)	Power Low Ch. / Freq. (MHz)	Power Middle Ch. / Freq. (MHz)	Power High Ch. / Freq. (MHz)	Time (sec)	MPE (dB)			
Channel											Channel											Channel										
Frequency (MHz)											Frequency (MHz)											Frequency (MHz)										
20	QPSK	1	0	22.05	22.05	22.06					20	QPSK	1	0	18.75	18.87	18.84					20	QPSK	1	0	19.31	19.42	19.36				
20	QPSK	1	49	22.03	22.03	22.04	23.5	0			20	QPSK	1	49	18.75	18.83	18.86	20.5	0			20	QPSK	1	49	19.29	19.31	19.03	20.5	0		
20	QPSK	1	99	22.03	22.05	22.07					20	QPSK	1	99	18.75	18.83	18.84					20	QPSK	1	99	19.31	19.37	18.71	20.5	0		
20	QPSK	50	0	21.96	22.04	21.81					20	QPSK	50	0	18.83	18.85	18.76					20	QPSK	50	0	18.82	19.17	18.88				
20	QPSK	50	24	21.86	21.90	21.96					20	QPSK	50	24	18.92	18.92	18.93	20.5	0			20	QPSK	50	24	18.99	18.96	18.91	20.5	0		
20	QPSK	50	50	21.91	22.01	21.93	23.5	0			20	QPSK	50	50	18.76	18.79	18.73					20	QPSK	50	50	19.03	19.04	18.98				
20	QPSK	100	0	21.85	21.92	21.87					20	QPSK	100	0	18.67	18.84	18.82					20	QPSK	100	0	18.95	19.02	19.00				
20	16QAM	1	0	21.87	21.84	21.83					20	16QAM	1	0	18.92	18.72	18.81	20.5	0			20	16QAM	1	0	19.19	19.26	19.27				
20	16QAM	1	49	21.89	21.89	22.04	23.5	0			20	16QAM	1	49	18.78	18.79	18.84					20	16QAM	1	49	19.17	19.24	19.20	20.5	0		
20	16QAM	1	99	21.85	21.89	21.89					20	16QAM	1	99	18.64	18.81	18.81					20	16QAM	1	99	19.09	19.03	18.97				
20	16QAM	50	0	21.90	22.02	21.95					20	16QAM	50	0	18.79	18.66	18.75	20.5	0			20	16QAM	50	0	19.02	19.06	18.98				
20	16QAM	50	24	21.99	22.09	22.04	23.5	0			20	16QAM	50	24	18.78	18.79	18.84					20	16QAM	50	24	19.03	19.04	18.99	20.5	0		
20	16QAM	50	50	22.00	22.06	22.07					20	16QAM	50	50	18.78	18.81	18.81					20	16QAM	50	50	19.17	19.06	18.97	20.5	0		
20	16QAM	100	0	21.92	21.95	21.94					20	16QAM	100	0	18.77	18.70	18.84	20.5	0			20	16QAM	100	0	19.04	19.05	19.30				
20	16QAM	1	49	21.90	21.96	22.03	23.5	0			20	16QAM	1	49	18.78	18.72	18.84					20	16QAM	1	49	19.07	19.33	19.00	20.5	0		
20	16QAM	1	99	22.00	22.05	22.01					20	16QAM	1	99	18.77	18.71	18.75					20	16QAM	1	99	19.10	19.15	19.03				
20	16QAM	50	0	20.96	21.06	21.00	22.5	1			20	16QAM	50	24	18.71	18.81	18.85	20.5	0			20	16QAM	50	24	19.01	18.88	18.73	20.5	0		
20	16QAM	50	24	20.95	21.05	21.00					20	16QAM	50	50	18.83	18.83	18.84					20	16QAM	50	50	19.03	18.95	18.82	20.5	0		
20	16QAM	100	0	20.95	21.05	20.92					20	16QAM	100	0	18.73	18.63	18.72					20	16QAM	100	0	19.06	18.94	18.82				
20	16QAM	1	49	19.35	19.75	19.57	20.5	3			20	16QAM	1	49	18.16	18.28	18.17	20.5	0			20	16QAM	1	49	19.24	19.34	19.30				
20	16QAM	1	99	19.48	19.75	19.53					20	16QAM	1	99	18.13	18.26	18.01					20	16QAM	1	99	18.85	18.87	18.92				
20	16QAM	50	0	19.36	19.45	19.21					20	16QAM	50	0	18.13	18.31	18.14	20.5	0			20	16QAM	50	0	19.03	19.08	18.97				
20	16QAM	50	24	19.45	19.65	19.57	20.5	3			20	16QAM	50	24	18.16	18.27	18.04					20	16QAM	50	24	19.07	19.24	19.20				
20	16QAM	50	50	19.41	19.67	19.66					20	16QAM	50	50	18.14	18.27	18.04					20	16QAM	50	50	19.17	19.05	19.12				
20	16QAM	100	0	19.45	19.65	19.65					20	16QAM	100	0	18.15	18.26	18.04	20.5	0			20	16QAM	100	0	19.04	19.03	19.79				
Channel											Channel											Channel										
Frequency (MHz)											Frequency (MHz)											Frequency (MHz)										
15	QPSK	1	0	18.975	18.995	18.925	Time (sec)	MPE (dB)			15	QPSK	1	0	18.57	18.84	18.81	Time (sec)	MPE (dB)			15	QPSK	1	0	19.02	18.95	18.99	Time (sec)	MPE (dB)		
15	QPSK	1	37	22.01	22.05	22.01					15	QPSK	1	37	18.78	18.79	18.79	20.5	0			15	QPSK	1	37	19.04	19.03	19.04	20.5	0		
15	QPSK	1	74	22.02	22.05	22.01					15	QPSK	1	74	18.74	18.65	18.84					15	QPSK	1	74	18.95	18.89	18.72				
15	QPSK	36	0	21.89	21.99	21.81					15	QPSK	36	0	18.66	18.76	18.71	20.5	0			15	QPSK	36	0	19.22	19.07	18.91	20.5	0		
15	QPSK	36	30	21.78	21.87	21.96	23.5	0			15	QPSK	36	30	18.55	18.73	18.67					15	QPSK	36	30	19.06	18.97	18.93	20.5	0		
15	QPSK	36	36	21.91	21.92	21.82					15	QPSK	36	36	18.59	18.83	18.76					15	QPSK	36	36	19.08	19.10	19.03				
15	QPSK	75	0	21.81	21.86	21.81					15	QPSK	75	0	18.60	18.61	18.71	20.5	0			15	QPSK	75	0	19.16	19.02	18.98				
15	16QAM	1	0	21.88	21.72	21.73	23.5	0			15	16QAM	1	0	18.77	18.79	18.89					15	16QAM	1	0	19.01	19.04	19.05				
15	16QAM	1	37	21.86	21.81	22.01					15	16QAM	1	37	18.57	18.79	18.79	20.5	0			15	16QAM	1	37	18.85	18.89	18.96				
15	16QAM	1	74	21.84	21.85	21.87					15	16QAM	1	74	18.61	18.74	18.64					15	16QAM	1	74	19.07	19.05	18.98	20.5	0		
15	16QAM	36	0	21.87	21.92	21.92					15	16QAM	36	0	18.67	18.68	18.68	20.5	0			15	16QAM	36	0	19.04	18.97	18.95				
15	16QAM	36	30	21.83	21.88	21.95	23.5	0			15	16QAM	36	30	18.65	18.74	18.72					15	16QAM	36	30	19.08	19.07	18.95	20.5	0		
15	16QAM	36	36	21.92	21.93	21.85					15	16QAM	36	36	18.66	18.66	18.64					15	16QAM	36	36	19.04	18.98	18.85				
15	16QAM	75	0	21.91	21.95	21.92					15	16QAM	75	0	18.63	18.72	18.67	20.5	0			15	16QAM	75	0	19.06	19.02	18.96	20.5	0		
15	16QAM	1	0	21.81	21.89	21.99	23.5	0			15	16QAM	1	0	18.66	18.69	18.91					15	16QAM	1	0	19.04	19.03	18.97				
15	16QAM	1	37	21.87	21.83	21.85					15	16QAM	1	37	18.63	18.64	18.67	20.5	0			15	16QAM	1	37	19.06	19.00	18.93	20.5	0		
15	16QAM	1	74	21.96	21.95	21.95					15	16QAM	1	74	18.63	18.64	18.69					15	16QAM	1	74	19.08	19.07	18.95				
15	16QAM	36	0	20.92	20.99	20.96	22.5	1			15	16QAM	36	0	18.60	18.73	18.72					15	16QAM	36	0	19.02	18.95	18.90				
15	16QAM	36	30	20.92	20.99	20.95					15	16QAM	36	30	18.63	18.72	18.67	20.5	0			15	16QAM	36	30	19.06	18.96	18.88				
15	16QAM	36	36	21.04	21.04	20.93					15	16QAM	36	36	18.64	18.73	18.68					15	16QAM	36	36	19.07	18.97	18.85				
15	16QAM	75	0	20.87	20.93	20.89					15	16QAM	75	0	18.64	18.67	18.74	20.5	0			15	16QAM	75	0	19.08	18.71	18.90				
15	16QAM	1	0	19.36	19.35	19.35	20.5	3			15	16QAM	1	0	18.15	18.27	17.96					15	16QAM	1	0	19.01	19.01	19.05				
15	16QAM	1	37	19.41	19.62	19.57					15	16QAM	1	37	18.15	18.27	17.96					15	16QAM	1	37	19.02	19.28	19.00				
15	16QAM	1	74	19.36																												

Band 25 Modem A Ant2										
Modem (MHz)	Modem on (MHz)	RB Size (MHz)	RB Offset	Power Low Ch / Freq	Power Modem Ch / Freq	Power High Ch / Freq	Turn- up rate (dB)	Turn- up rate (dB)	Turn- up rate (dB)	MPE (dB)
Channel										
Frequency (MHz)										
20	OPSK	1	0	22.12	22.15	22.14	23.5	0		
20	OPSK	1	8	22.08	22.01	22.03	23.5	0		
20	OPSK	1	16	22.03	22.01	22.02	23.5	0		
20	OPSK	50	0	22.00	22.13	21.99	23.5	0		
20	OPSK	50	24	21.99	21.87	22.03	23.5	0		
20	OPSK	50	50	22.05	22.10	22.05	23.5	0		
20	OPSK	100	0	21.87	22.05	22.02	23.5	0		
20	16QAM	1	0	21.99	21.94	21.92	23.5	0		
20	16QAM	1	49	21.99	21.95	22.00	23.5	0		
20	16QAM	1	99	22.00	21.93	22.01	23.5	0		
20	16QAM	50	0	22.04	22.09	22.01	23.5	0		
20	16QAM	50	24	22.13	22.09	22.09	23.5	0		
20	16QAM	50	50	22.05	22.13	22.12	23.5	0		
20	16QAM	100	0	22.01	22.05	22.06	23.5	0		
20	16QAM	1	0	22.03	22.05	22.13	23.5	0		
20	16QAM	1	49	21.99	22.03	22.15	23.5	0		
20	16QAM	1	99	22.12	22.10	22.12	23.5	0		
20	16QAM	50	0	21.11	21.17	21.12	23.5	1		
20	16QAM	50	24	21.12	21.20	21.05	23.5	1		
20	16QAM	50	50	21.20	21.15	21.15	23.5	1		
20	16QAM	100	0	21.05	21.10	21.03	23.5	1		
20	256QAM	1	0	19.85	19.85	19.85	20.5	3		
20	256QAM	1	99	19.89	19.85	19.84	20.5	3		
20	256QAM	50	0	19.85	19.85	19.85	20.5	3		
20	256QAM	50	24	19.88	19.79	19.89	20.5	3		
20	256QAM	50	50	19.83	19.79	19.75	20.5	3		
20	256QAM	100	0	19.80	19.83	19.83	20.5	3		
Channel										
Frequency (MHz)										
15	OPSK	1	0	22.01	22.12	22.08	23.5	0		
15	OPSK	1	8	22.00	22.04	22.07	23.5	0		
15	OPSK	1	16	22.09	22.01	22.06	23.5	0		
15	OPSK	50	0	21.98	22.00	21.83	23.5	0		
15	OPSK	50	24	21.93	21.91	21.97	23.5	0		
15	OPSK	50	50	22.01	22.04	21.95	23.5	0		
15	OPSK	75	0	21.92	21.97	21.83	23.5	0		
15	OPSK	1	0	21.96	21.99	22.06	23.5	0		
15	OPSK	1	49	21.96	21.97	22.07	23.5	0		
15	OPSK	1	97	21.90	21.88	21.99	23.5	0		
15	OPSK	1	14	21.92	21.89	21.95	23.5	0		
15	16QAM	1	0	21.92	21.92	21.96	23.5	0		
15	16QAM	1	49	21.96	21.93	21.98	23.5	0		
15	16QAM	1	97	21.90	21.88	21.99	23.5	0		
15	16QAM	36	0	21.96	22.01	21.93	23.5	0		
15	16QAM	36	20	22.02	21.98	22.02	23.5	0		
15	16QAM	36	50	21.96	21.97	22.05	23.5	0		
15	16QAM	75	0	21.96	21.97	22.05	23.5	0		
15	16QAM	1	0	21.96	21.99	22.06	23.5	0		
15	16QAM	1	8	21.96	21.97	22.07	23.5	0		
15	16QAM	1	16	22.02	22.02	22.03	23.5	0		
15	16QAM	36	0	21.91	21.91	21.11	23.5	1		
15	16QAM	36	20	21.94	21.93	21.11	23.5	1		
15	16QAM	36	50	21.92	20.96	20.91	23.5	1		
15	256QAM	1	0	19.82	19.82	19.82	20.5	3		
15	256QAM	1	97	19.85	19.74	19.83	20.5	3		
15	256QAM	1	14	19.84	19.85	19.88	20.5	3		
15	256QAM	36	0	19.85	19.85	19.84	20.5	3		
15	256QAM	36	20	19.89	19.89	19.85	20.5	3		
15	256QAM	36	50	19.44	19.67	19.74	20.5	3		
15	256QAM	75	0	19.44	19.63	19.51	20.5	3		
Channel										
Frequency (MHz)										
10	OPSK	1	0	22.07	22.08	22.07	23.5	0		
10	OPSK	1	25	22.01	22.03	22.00	23.5	0		
10	OPSK	1	49	22.06	22.05	22.04	23.5	0		
10	OPSK	25	0	22.07	22.04	21.96	23.5	0		
10	OPSK	25	12	21.91	21.87	21.96	23.5	0		
10	OPSK	25	25	21.98	22.09	22.02	23.5	0		
10	OPSK	50	0	21.87	21.99	22.01	23.5	0		
10	16QAM	1	0	21.99	21.94	21.83	23.5	0		
10	16QAM	1	25	21.93	21.88	22.09	23.5	0		
10	16QAM	1	49	21.87	21.89	21.95	23.5	0		
10	16QAM	25	0	21.96	22.01	21.97	23.5	0		
10	16QAM	25	12	22.07	21.98	22.07	23.5	0		
10	16QAM	25	18	22.13	22.09	22.01	23.5	0		
10	16QAM	50	0	21.96	21.97	22.05	23.5	0		
10	16QAM	1	0	21.96	21.99	22.06	23.5	0		
10	16QAM	1	8	21.96	21.97	22.07	23.5	0		
10	16QAM	1	16	22.02	22.02	22.03	23.5	0		
10	16QAM	36	0	21.91	21.91	21.11	23.5	1		
10	16QAM	36	20	21.94	21.93	21.11	23.5	1		
10	16QAM	36	50	21.92	20.96	20.91	23.5	1		
10	256QAM	1	0	19.80	19.82	19.86	20.5	3		
10	256QAM	1	25	19.86	19.72	19.83	20.5	3		
10	256QAM	1	49	19.82	19.74	19.85	20.5	3		
10	256QAM	25	0	19.83	19.79	19.85	20.5	3		
10	256QAM	25	12	19.46	19.62	19.85	20.5	3		
10	256QAM	25	18	19.46	19.62	19.85	20.5	3		
10	256QAM	25	25	19.43	19.75	19.86	20.5	3		
10	256QAM	50	0	19.45	19.62	19.85	20.5	3		
Channel										
Frequency (MHz)										
5	OPSK	1	0	22.03	22.04	22.03	23.5	0		
5	OPSK	1	12	22.08	22.07	22.01	23.5	0		
5	OPSK	1	24	22.08	22.03	22.08	23.5	0		
5	OPSK	12	0	21.82	22.03	21.81	23.5	0		
5	OPSK	12	7	21.88	21.90	21.93	23.5	0		
5	OPSK	12	13	21.94	22.08	21.99	23.5	0		
5	OPSK	25	0	21.85	22.05	22.01	23.5	0		
5	16QAM	1	0	21.96	21.94	21.81	23.5	0		
5	16QAM	1	12	21.95	21.83	22.07	23.5	0		
5	16QAM	1	14	21.81	21.82	22.00	23.5	0		
5	16QAM	12	0	21.93	21.99	21.99	23.5	0		
5	16QAM	12	7	22.11	22.02	22.10	23.5	0		
5	16QAM	12	13	22.08	22.02	22.11	23.5	0		
5	16QAM	25	0	21.96	21.96	22.02	23.5	0		
5	16QAM	1	0	22.02	21.94	22.07	23.5	0		
5	16QAM	1	12	21.99	22.01	22.04	23.5	0		
5	16QAM	1	24	22.07	21.99	22.12	23.5	0		
5	16QAM	12	0	21.08	21.13	21.01	23.5	1		
5	16QAM	12	7	21.03	21.10	21.02	23.5	1		
5	16QAM	12	13	21.09	21.12	21.11	23.5	1		
5	256QAM	1	0	19.87	19.82	19.80	20.5	3		
5	256QAM	1	12	19.86	19.62	19.84	20.5	3		
5	256QAM	1	24	19.49	19.74	19.59	20.5	3		
5	256QAM	12	0	19.40	19.76	19.75	20.5	3		
5	256QAM	12	7	19.54	19.61	19.59	20.5	3		
5	256QAM	12	13	19.48	19.65	19.71	20.5	3		
5	256QAM	25	0	19.41	19.69	19.60	20.5	3		
Channel										
Frequency (MHz)										
3	OPSK	1	0	22.03	22.05	22.12	23.5	0		
3	OPSK	1	8	22.00	22.02	22.08	23.5	0		
3	OPSK	1	14	22.07	22.05	22.01	23.5	0		
3	OPSK	8	0	21.93	22.00	21.98	23.5	0		
3	OPSK	8	4	21.98	21.93	21.98	23.5	0		
3	OPSK	8	7	22.00	22.04	22.07	23.5	0		
3	OPSK	15	0	21.89	21.99	21.97	23.5	0		
3	16QAM	1	0	21.94	21.83	21.81	23.5	0		
3	16QAM	1	8	21.97	21.92	22.02	23.5	0		
3	16QAM	1	14	21.93	21.86	21.97	23.5	0		
3	16QAM	8	0	21.94	22.01	21.95	23.5	0		
3	16QAM	8	4	22.07	21.95	21.99	23.5	0		
3	16QAM	8	7	22.14	22.03	22.10	23.5	0		
3	16QAM	15	0	21.98	21.92	22.02	23.5	0		
3	16QAM	1	0	21.93	21.99	22.11	23.5	0		
3	16QAM	1	8	21.96	21.97	22.12	23.5	0		
3	16QAM	1	14	22.04	22.05	22.10	23.5	0		
3	16QAM	8	0	21.05	21.10	20.99	23.5	1		
3	16QAM	8								
3	16QAM	15	0	21.08	21.15	21.12	23.5	1		
3	256QAM	1	0	21.05	21.19	20.99	20.5	3		
3	256QAM	1	8	21.08	21.10	21.03	20.5	3		
3	256QAM	1	14	21.24	21.08	21.03	20.5	3		
3	256QAM	15	0	19.49	19.68	19.64	20.5	3		
3	256QAM	1	0	19.43	19.63	19.63	20.5	3		
3	256QAM	1	8	19.44	19.73	19.71	20.5	3		
3	256QAM	1	14	19.49	19.68	19.68	20.5	3		
3	256QAM	15	0	19.42	19.67	19.65	20.5	3		
3	256QAM	8	0	19.44	19.67	19.				

PC3 Band 42 Modem A Ant2									
BW [MHz]	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune- up [dB]	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	21.87	21.76	21.68		23.5	0
20	QPSK	1	49	21.77	21.67	21.57			
20	QPSK	1	99	21.78	21.64	21.55			
20	QPSK	50	0	21.80	21.69	21.60		23.5	0
20	QPSK	50	24	21.70	21.63	21.65			
20	QPSK	50	50	21.79	21.73	21.62			
20	QPSK	100	0	21.76	21.71	21.67		23.5	0
20	16QAM	1	0	21.74	21.62	21.54			
20	16QAM	1	49	21.82	21.65	21.56			
20	16QAM	1	99	21.71	21.57	21.54		23	0.5
20	16QAM	50	0	21.42	21.25	21.18			
20	16QAM	50	24	21.37	21.26	21.15			
20	16QAM	50	50	21.35	21.30	21.15		22	1.5
20	16QAM	100	0	21.37	21.21	21.22			
20	64QAM	1	0	21.33	21.34	21.14			
20	64QAM	1	49	21.33	21.31	21.22		23	0.5
20	64QAM	1	99	21.38	21.27	21.13			
20	64QAM	50	0	20.32	20.29	20.13			
20	64QAM	50	24	20.31	20.28	20.19		20	3.5
20	64QAM	50	50	20.29	20.23	20.12			
20	64QAM	100	0	20.30	20.21	20.23			
20	256QAM	1	0	18.47	18.40	18.18		20	3.5
20	256QAM	1	49	18.43	18.39	18.24			
20	256QAM	1	99	18.37	18.32	18.25			
20	256QAM	50	0	18.40	18.29	18.34		20	3.5
20	256QAM	50	24	18.42	18.37	18.25			
20	256QAM	50	50	18.40	18.43	18.28			
20	256QAM	100	0	18.38	18.37	18.19		MPR (dB)	
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	21.84	21.70	21.60		23.5	0
15	QPSK	1	37	21.61	21.53	21.52			
15	QPSK	1	74	21.75	21.53	21.57			
15	QPSK	36	0	21.72	21.61	21.58		23.5	0
15	QPSK	36	20	21.66	21.59	21.54			
15	QPSK	36	39	21.78	21.63	21.55			
15	QPSK	75	0	21.66	21.67	21.58		23.5	0
15	16QAM	1	0	21.68	21.56	21.59			
15	16QAM	1	37	21.78	21.56	21.54			
15	16QAM	1	74	21.65	21.53	21.55		23	0.5
15	16QAM	36	0	21.30	21.19	21.10			
15	16QAM	36	20	21.35	21.15	21.13			
15	16QAM	36	39	21.33	21.25	21.08		23	0.5
15	16QAM	75	0	21.36	21.15	21.17			
15	64QAM	1	0	21.23	21.27	21.14			
15	64QAM	1	37	21.28	21.26	21.21		23	0.5
15	64QAM	1	74	21.29	21.20	21.06			
15	64QAM	36	0	20.25	20.17	20.05			
15	64QAM	36	20	20.23	20.26	20.14		22	1.5
15	64QAM	36	39	20.19	20.16	20.07			
15	64QAM	75	0	20.26	20.17	20.17			
15	256QAM	1	0	18.47	18.35	18.14		20	3.5
15	256QAM	1	37	18.37	18.37	18.14			
15	256QAM	1	74	18.28	18.32	18.22			
15	256QAM	36	0	18.35	18.25	18.33		20	3.5
15	256QAM	36	20	18.41	18.27	18.18			
15	256QAM	36	39	18.38	18.38	18.24			
15	256QAM	75	0	18.33	18.26	18.19		MPR (dB)	
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	21.76	21.65	21.62		23.5	0
10	QPSK	1	25	21.65	21.62	21.51			
10	QPSK	1	49	21.61	21.58	21.65			
10	QPSK	25	0	21.60	21.68	21.56		23.5	0
10	QPSK	25	12	21.61	21.61	21.54			
10	QPSK	25	25	21.75	21.64	21.55			
10	QPSK	50	0	21.71	21.62	21.56		23.5	0
10	16QAM	1	0	21.69	21.59	21.53			
10	16QAM	1	25	21.73	21.62	21.54			
10	16QAM	1	49	21.63	21.54	21.55		23	0.5
10	16QAM	25	0	21.36	21.15	21.10			
10	16QAM	25	12	21.28	21.23	21.07			
10	16QAM	25	25	21.31	21.25	21.06		23	0.5
10	16QAM	50	0	21.28	21.14	21.20			
10	64QAM	1	0	21.28	21.29	21.12			
10	64QAM	1	25	21.27	21.21	21.15		23	0.5
10	64QAM	1	49	21.34	21.17	21.07			
10	64QAM	25	0	20.27	20.25	20.08			
10	64QAM	25	12	20.25	20.19	20.10		22	1.5
10	64QAM	25	25	20.17	20.21	20.03			
10	64QAM	50	0	20.18	20.13	20.18			
10	256QAM	1	0	18.40	18.31	18.07		20	3.5
10	256QAM	1	25	18.35	18.31	18.23			
10	256QAM	1	49	18.29	18.24	18.22			
10	256QAM	25	0	18.34	18.25	18.33		20	3.5
10	256QAM	25	12	18.39	18.25	18.15			
10	256QAM	25	25	18.36	18.36	18.26			
10	256QAM	50	0	18.26	18.27	18.12		MPR (dB)	
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	21.76	21.71	21.61		23.5	0
5	QPSK	1	12	21.63	21.59	21.51			
5	QPSK	1	24	21.71	21.51	21.67			
5	QPSK	12	0	21.79	21.59	21.55		23.5	0
5	QPSK	12	7	21.59	21.63	21.63			
5	QPSK	12	13	21.74	21.69	21.58			
5	QPSK	25	0	21.75	21.60	21.62		23.5	0
5	16QAM	1	0	21.73	21.56	21.53			
5	16QAM	1	12	21.82	21.55	21.58			
5	16QAM	1	24	21.69	21.56	21.50		23	0.5
5	16QAM	12	0	21.41	21.14	21.15			
5	16QAM	12	7	21.29	21.24	21.15			
5	16QAM	12	13	21.23	21.21	21.08		23	0.5
5	16QAM	25	0	21.29	21.17	21.17			
5	64QAM	1	0	21.27	21.33	21.12			
5	64QAM	1	12	21.32	21.21	21.15		23	0.5
5	64QAM	1	24	21.30	21.26	21.08			
5	64QAM	12	0	20.20	20.21	20.02			
5	64QAM	12	7	20.28	20.20	20.17		22	1.5
5	64QAM	12	13	20.21	20.11	20.05			
5	64QAM	25	0	20.19	20.21	20.16			
5	256QAM	1	0	18.45	18.30	18.10		20	3.5
5	256QAM	1	12	18.36	18.32	18.14			
5	256QAM	1	24	18.27	18.27	18.15			
5	256QAM	12	0	18.28	18.20	18.27		20	3.5
5	256QAM	12	7	18.38	18.34	18.17			
5	256QAM	12	13	18.38	18.43	18.26			
5	256QAM	25	0	18.30	18.28	18.13		MPR (dB)	

PC2 Band 42 Modem A Ant2									
BW [MHz]	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune- up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	21.87	21.76	21.68	23.5	0	
20	QPSK	1	49	21.77	21.67	21.57			
20	QPSK	1	99	21.78	21.64	21.55			
20	QPSK	50	0	21.80	21.69	21.60	23.5	0	
20	QPSK	50	24	21.70	21.63	21.65			
20	QPSK	50	50	21.79	21.73	21.62			
20	QPSK	100	0	21.76	21.71	21.67	23.5	0	
20	16QAM	1	0	21.74	21.62	21.54			
20	16QAM	1	49	21.82	21.65	21.50	23.5	0	
20	16QAM	1	99	21.71	21.57	21.54			
20	16QAM	50	0	21.80	21.62	21.58			
20	16QAM	50	24	21.71	21.63	21.54	23.5	0	
20	16QAM	50	50	21.81	21.52	21.55			
20	16QAM	100	0	21.65	21.53	21.51	23.5	0	
20	16QAM	1	0	21.68	21.52	21.53			
20	16QAM	1	49	21.76	21.61	21.50			
20	16QAM	1	99	21.59	21.51	21.50	23.5	0	
20	16QAM	50	0	21.67	21.55	21.53			
20	16QAM	50	24	21.77	21.64	21.54			
20	16QAM	50	50	21.65	21.57	21.51	23.5	0	
20	16QAM	100	0	21.64	21.52	21.50			
20	256QAM	1	0	19.87	19.73	19.70	21.5	2	
20	256QAM	1	49	19.85	19.65	19.58			
20	256QAM	1	99	19.80	19.70	19.57			
20	256QAM	50	0	19.89	19.81	19.72	21.5	2	
20	256QAM	50	24	19.84	19.68	19.64			
20	256QAM	50	50	19.86	19.64	19.54			
20	256QAM	100	0	19.81	19.69	19.54	21.5	2	
20	256QAM	1	99	19.80	19.70	19.57			
20	256QAM	50	0	19.89	19.81	19.72	21.5	2	
20	256QAM	50	24	19.84	19.68	19.64			
20	256QAM	50	50	19.86	19.64	19.54			
20	256QAM	100	0	19.81	19.69	19.54	21.5	2	
20	256QAM	1	99	19.80	19.70	19.57			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	21.80	21.80	21.72	23.5	0	
15	QPSK	1	37	21.74	21.70	21.61			
15	QPSK	1	74	21.76	21.62	21.51			
15	QPSK	36	0	21.80	21.85	21.58	23.5	0	
15	QPSK	36	20	21.74	21.62	21.68			
15	QPSK	36	39	21.76	21.70	21.59			
15	QPSK	75	0	21.81	21.77	21.69	23.5	0	
15	16QAM	1	0	21.69	21.64	21.60			
15	16QAM	1	37	21.79	21.75	21.59			
15	16QAM	1	74	21.66	21.53	21.58	23.5	0	
15	16QAM	36	0	21.67	21.56	21.63			
15	16QAM	36	20	21.71	21.66	21.57			
15	16QAM	36	39	21.55	21.58	21.59	23.5	0	
15	16QAM	75	0	21.66	21.52	21.55			
15	16QAM	75	0	21.69	21.57	21.54			
15	16QAM	1	37	21.74	21.55	21.50	23.5	0	
15	16QAM	1	74	21.58	21.51	21.53			
15	16QAM	36	0	21.63	21.56	21.51			
15	16QAM	36	20	21.77	21.64	21.54	23.5	0	
15	16QAM	36	39	21.59	21.51	21.53			
15	16QAM	75	0	21.68	21.59	21.52			
15	256QAM	1	0	19.92	19.76	19.76	21.5	2	
15	256QAM	1	37	19.80	19.60	19.60			
15	256QAM	1	74	19.85	19.65	19.59			
15	256QAM	36	0	19.95	19.86	19.66	21.5	2	
15	256QAM	36	20	19.88	19.64	19.58			
15	256QAM	36	39	19.82	19.64	19.58			
15	256QAM	75	0	19.83	19.69	19.56	21.5	2	
15	256QAM	1	99	19.80	19.69	19.54			
Channel				42140	42590	43040			
Frequency (MHz)				3453	3500	3547			
10	QPSK	1	0	21.83	21.75	21.64	23.5	0	
10	QPSK	1	25	21.81	21.70	21.57			
10	QPSK	1	49	21.79	21.68	21.55			
10	QPSK	25	0	21.75	21.74	21.59	23.5	0	
10	QPSK	25	12	21.70	21.58	21.69			
10	QPSK	25	25	21.78	21.75	21.57			
10	QPSK	50	0	21.79	21.71	21.61	23.5	0	
10	16QAM	1	0	21.78	21.57	21.54			
10	16QAM	1	25	21.81	21.69	21.56			
10	16QAM	1	49	21.67	21.62	21.53	23.5	0	
10	16QAM	25	0	21.68	21.52	21.65			
10	16QAM	25	12	21.66	21.60	21.57			
10	16QAM	25	25	21.63	21.57	21.54	23.5	0	
10	16QAM	50	0	21.59	21.52	21.50			
10	16QAM	1	0	21.65	21.57	21.51	23.5	0	
10	16QAM	1	25	21.81	21.61	21.55			
10	16QAM	1	49	21.64	21.57	21.53			
10	16QAM	25	0	21.80	21.50	21.58	23.5	0	
10	16QAM	25	12	21.74	21.60	21.51			
10	16QAM	25	25	21.68	21.62	21.52			
10	16QAM	50	0	21.62	21.51	21.53	23.5	0	
10	256QAM	1	0	19.94	19.77	19.68			
10	256QAM	1	25	19.80	19.65	19.58	21.5	2	
10	256QAM	1	49	19.84	19.67	19.56			
10	256QAM	25	0	19.89	19.77	19.77			
10	256QAM	25	12	19.80	19.72	19.67	21.5	2	
10	256QAM	25	25	19.86	19.69	19.51			
10	256QAM	50	0	19.83	19.64	19.56			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	21.83	21.71	21.71	23.5	0	
5	QPSK	1	12	21.81	21.62	21.51			
5	QPSK	1	24	21.75	21.60	21.61			
5	QPSK	12	0	21.83	21.73	21.63	23.5	0	
5	QPSK	12	12	21.81	21.63	21.55			
5	QPSK	12	13	21.79	21.78	21.65			
5	QPSK	25	0	21.75	21.73	21.66	23.5	0	
5	16QAM	1	0	21.76	21.66	21.56			
5	16QAM	1	12	21.78	21.59	21.53			
5	16QAM	1	24	21.70	21.52	21.56	23.5	0	
5	16QAM	12	0	21.71	21.51	21.55			
5	16QAM	12	9	21.77	21.51	21.50			
5	16QAM	12	7	21.76	21.57	21.60	23.5	0	
5	16QAM	12	13	21.64	21.50	21.58			
5	16QAM	25	0	21.65	21.55	21.54	23.5	0	
5	16QAM	25	0	21.68	21.52	21.50			
5	16QAM	25	0	21.66	21.52	21.56			
5	16QAM	25	0	19.96	19.74	19.74	21.5	2	
5	16QAM	1	24	19.82	19.59	19.57			
5	16QAM	12	0	21.65	21.56	21.55			
5	16QAM	12	13	21.79	21.60	21.51	23.5	0	
5	16QAM	12	13	21.59	21.59	21.56			
5	16QAM	25	0	21.66	21.52	21.56			
5	256QAM	1	0	19.96	19.74	19.74	21.5	2	
5	256QAM	1	12	19.89	19.62	19.58			
5	256QAM	1	24	19.78	19.72	19.54			
5	256QAM	12	0	19.92	19.77	19.75	21.5	2	
5	256QAM	12	9	19.90	19.68	19.66			
5	256QAM	12	13	19.90	19.68	19.53			
5	256QAM	25	0	19.86	19.73	19.51	21.5	2	
5	256QAM	25	0	19.86	19.73	19.51			

Band 48 Modem A Ant2											
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 [dBm]	MPR (dB)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	14.83	14.95	14.81	14.92	16.5	0		
20	QPSK	1	49	14.73	14.87	14.73	14.77				
20	QPSK	1	99	14.74	14.79	14.68	14.84				
20	QPSK	50	0	14.78	14.90	14.89	14.90				
20	QPSK	50	24	14.67	14.86	14.84	14.74	16.5	0		
20	QPSK	50	50	14.65	14.75	14.60	14.81				
20	QPSK	100	0	14.81	14.83	14.80	14.88				
20	16QAM	1	0	14.71	14.78	14.63	14.76				
20	16QAM	1	49	14.65	14.74	14.54	14.80	16.5	0		
20	16QAM	1	99	14.77	14.93	14.73	14.90				
20	16QAM	50	0	14.70	14.77	14.69	14.70				
20	16QAM	50	24	14.67	14.70	14.57	14.71				
20	16QAM	50	50	14.77	14.85	14.76	14.80	16.5	0		
20	16QAM	100	0	14.66	14.84	14.80	14.84				
20	64QAM	1	0	14.70	14.75	14.58	14.75				
20	64QAM	1	49	14.72	14.92	14.79	14.87	16.5	0		
20	64QAM	1	99	14.63	14.81	14.70	14.70				
20	64QAM	50	0	14.65	14.73	14.60	14.79				
20	64QAM	50	24	14.75	14.88	14.77	14.90				
20	64QAM	50	50	14.70	14.75	14.69	14.69	16.5	0		
20	64QAM	100	0	14.68	14.77	14.56	14.78				
20	256QAM	1	0	13.91	14.11	13.97	14.04				
20	256QAM	1	49	13.98	14.07	14.02	14.08	16.5	0		
20	256QAM	1	99	13.98	14.03	13.91	14.05				
20	256QAM	50	0	14.03	14.21	14.03	14.18				
20	256QAM	50	24	14.12	14.16	14.04	14.13				
20	256QAM	50	50	14.04	14.09	13.93	14.00	16.5	0		
20	256QAM	100	0	14.05	14.06	13.91	14.04				
Channel				55315	55820	56160	56665				
Frequency (MHz)				3557.5	3608	3634	3692.5				
15	QPSK	1	0	14.72	14.80	14.75	14.84	16.5	0		
15	QPSK	1	37	14.69	14.83	14.67	14.72				
15	QPSK	1	74	14.63	14.64	14.56	14.71				
15	QPSK	36	0	14.73	14.80	14.84	14.84				
15	QPSK	36	20	14.57	14.80	14.58	14.67	16.5	0		
15	QPSK	36	39	14.56	14.86	14.55	14.69				
15	QPSK	75	0	14.73	14.72	14.74	14.84				
15	16QAM	1	0	14.57	14.65	14.54	14.63				
15	16QAM	1	37	14.51	14.70	14.49	14.67	16.5	0		
15	16QAM	1	74	14.63	14.83	14.66	14.79				
15	16QAM	36	0	14.59	14.73	14.55	14.84				
15	16QAM	36	20	14.59	14.63	14.47	14.67				
15	16QAM	36	39	14.72	14.72	14.70	14.67	16.5	0		
15	16QAM	75	0	14.60	14.75	14.51	14.50				
15	64QAM	1	0	14.67	14.64	14.45	14.64				
15	64QAM	1	37	14.66	14.85	14.73	14.73				
15	64QAM	1	74	14.58	14.69	14.59	14.59	16.5	0		
15	64QAM	36	0	14.57	14.64	14.48	14.68				
15	64QAM	36	20	14.71	14.77	14.69	14.81				
15	64QAM	36	39	14.65	14.70	14.59	14.55				
15	64QAM	75	0	14.54	14.70	14.45	14.70	16.5	0		
15	256QAM	1	0	13.97	14.07	13.91	14.05				
15	256QAM	1	37	13.85	13.97	13.91	14.00				
15	256QAM	1	74	13.91	13.90	13.88	13.96				
15	256QAM	36	0	13.89	14.18	14.00	14.13	16.5	0		
15	256QAM	36	20	14.02	14.02	13.90	13.98				
15	256QAM	36	39	13.89	13.98	13.79	13.91				
15	256QAM	75	0	13.95	13.96	13.87	13.92				
Channel				55290	55815	56185	56690				
Frequency (MHz)				3555	3607.5	3642.5	3695				
10	QPSK	1	0	14.77	14.91	14.87	14.89	16.5	0		
10	QPSK	1	25	14.63	14.77	14.59	14.73				
10	QPSK	1	49	14.59	14.73	14.55	14.73				
10	QPSK	25	0	14.72	14.79	14.55	14.86				
10	QPSK	25	12	14.62	14.75	14.54	14.64	16.5	0		
10	QPSK	25	25	14.53	14.70	14.46	14.71				
10	QPSK	50	0	14.73	14.69	14.70	14.81				
10	16QAM	1	0	14.67	14.74	14.59	14.71				
10	16QAM	1	25	14.54	14.70	14.42	14.66	16.5	0		
10	16QAM	1	49	14.72	14.84	14.68	14.82				
10	16QAM	25	0	14.56	14.65	14.63	14.61				
10	16QAM	25	12	14.62	14.66	14.49	14.68				
10	16QAM	25	25	14.67	14.79	14.66	14.69	16.5	0		
10	16QAM	50	0	14.62	14.72	14.53	14.58				
10	64QAM	1	0	14.66	14.65	14.51	14.71				
10	64QAM	1	25	14.65	14.80	14.69	14.83				
10	64QAM	1	49	14.50	14.70	14.57	14.64	16.5	0		
10	64QAM	25	0	14.53	14.69	14.56	14.69				
10	64QAM	25	12	14.63	14.75	14.66	14.86				
10	64QAM	25	25	14.64	14.69	14.62	14.65				
10	64QAM	50	0	14.60	14.65	14.46	14.64	16.5	0		
10	256QAM	1	0	14.04	14.15	13.98	14.02				
10	256QAM	1	25	13.90	14.02	13.94	14.05				
10	256QAM	1	49	13.95	13.99	13.87	13.99				
10	256QAM	25	0	13.90	14.07	13.99	14.07	16.5	0		
10	256QAM	25	12	14.00	14.12	13.95	14.09				
10	256QAM	25	25	13.91	13.98	13.88	13.89				
10	256QAM	50	0	13.95	13.93	13.88	13.97				
Channel				55265	55810	56170	56715				
Frequency (MHz)				3522.5	3607	3643	3697.5				
5	QPSK	1	0	14.78	14.81	14.75	14.81	16.5	0		
5	QPSK	1	12	14.61	14.81	14.67	14.72				
5	QPSK	1	24	14.68	14.73	14.58	14.79				
5	QPSK	12	0	14.67	14.80	14.59	14.78				
5	QPSK	12	7	14.55	14.82	14.65	14.63	16.5	0		
5	QPSK	12	13	14.52	14.70	14.57	14.68				
5	QPSK	25	0	14.74	14.72	14.67	14.84				
5	16QAM	1	0	14.64	14.68	14.54	14.69				
5	16QAM	1	12	14.57	14.64	14.40	14.75	16.5	0		
5	16QAM	1	24	14.72	14.87	14.66	14.84				
5	16QAM	12	0	14.63	14.67	14.55	14.58				
5	16QAM	12	7	14.60	14.56	14.51	14.63				
5	16QAM	12	13	14.66	14.80	14.70	14.72	16.5	0		
5	16QAM	25	0	14.52	14.78	14.53	14.60				
5	64QAM	1	0	14.65	14.71	14.52	14.61				
5	64QAM	1	12	14.68	14.85	14.72	14.84				
5	64QAM	1	24	14.49	14.77	14.66	14.56	16.5	0		
5	64QAM	12	0	14.61	14.62	14.53	14.71				
5	64QAM	12	7	14.72	14.77	14.69	14.83				
5	64QAM	12	13	14.63	14.64	14.62	14.60				
5	64QAM	25	0	14.62	14.65	14.49	14.73	16.5	0		
5	256QAM	1	0	13.95	14.11	13.97	14.08				
5	256QAM	1	12	13.85	13.97	13.95	14.03				
5	256QAM	1	24	13.91	13.96	13.77	13.94	16.5	0		
5	256QAM	12	0	14.00	14.17	13.94	14.06				
5	256QAM	12	7	14.08	14.04	13.96	14.04				
5	256QAM	12	13	13.98	13.96	13.92	13.93				

		WCDMA II Modem B Ant0				WCDMA IV Modem B Ant0				WCDMA V Modem B Ant0				
Band	TX Channel		9282	9400	9538	Turn-up	1312	1413	1513	Turn-up	4132	4162	4233	Turn-up
	Rx Channel		9662	9600	9698	Limit (dBm)	1537	1638	1738	Limit (dBm)	4357	4407	4458	Limit (dBm)
	Frequency (MHz)		1852.4	1848	1807.6		1722.4	1722.8	1726.8		185.4	185.4	184.6	
	RMC 12.2Kbps		22.79	22.88	22.78	24.50	18.94	18.96	18.05	19.50	22.21	22.30	22.34	24.50
	3GPP Rel 99		22.79	22.88	22.78	24.50	18.94	18.96	18.05	19.50	22.21	22.30	22.34	24.50
3GPP Rel 6	HSRPA Subtest-1	21.80	21.86	21.84	23.50	17.97	18.06	17.95	19.50	22.21	22.30	22.34	23.50	
3GPP Rel 6	HSRPA Subtest-2	21.81	21.91	21.84	23.50	18.00	18.17	17.93	19.50	22.25	22.31	22.22	23.50	
3GPP Rel 6	HSRPA Subtest-3	21.32	21.35	21.34	23.00	17.50	17.56	17.47	19.00	21.68	21.85	21.76	23.00	
3GPP Rel 6	HSRPA Subtest-4	21.29	21.31	21.34	23.00	17.42	17.62	17.41	19.00	21.61	21.79	21.70	23.00	
3GPP Rel 6	DC-HSRPA Subtest-1	21.83	21.80	21.84	23.50	17.92	18.11	17.98	19.50	22.12	22.31	22.22	23.50	
3GPP Rel 6	DC-HSRPA Subtest-2	21.72	21.90	21.82	23.50	17.89	18.17	17.92	19.50	22.16	22.38	22.24	23.50	
3GPP Rel 6	DC-HSRPA Subtest-3	21.33	21.36	21.32	23.00	17.51	17.61	17.40	19.00	21.68	21.83	21.72	23.00	
3GPP Rel 6	DC-HSRPA Subtest-4	21.23	21.40	21.24	23.00	17.48	17.60	17.45	19.00	21.70	21.85	21.75	23.00	
3GPP Rel 6	HSRPA Subtest-1	21.84	21.92	21.77	23.50	17.94	18.05	17.99	19.50	22.18	22.23	22.25	23.50	
3GPP Rel 6	HSRPA Subtest-2	19.81	19.82	19.79	21.50	15.97	16.16	16.04	17.50	20.18	20.28	20.30	21.50	
3GPP Rel 6	HSRPA Subtest-3	20.80	20.82	20.77	22.50	16.98	17.10	17.00	18.50	21.18	21.25	21.31	22.50	
3GPP Rel 6	HSRPA Subtest-4	19.74	19.92	19.78	21.50	15.98	16.05	15.93	17.50	20.24	20.29	20.30	21.50	
3GPP Rel 6	HSRPA Subtest-5	21.77	21.81	21.85	23.50	17.92	18.11	17.98	19.50	22.12	22.27	22.26	23.50	
3GPP Rel 7	HSRPA (150MHz) Subtest-1	19.37	19.38	19.26	21.00	15.53	15.56	15.54	17.00	18.64	19.78	19.72	21.00	

Band 2 Modem B Ant0												
BW (MHz)	Modem Ant	RB Size (kHz)	RB Offset	Power Min (Ch./Freq.)	Power Max (Ch./Freq.)	Power High (Ch./Freq.)	Time Up (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
20	OPRK	1	0	21.65	21.79	21.49						
20	OPRK	1	49	21.62	21.67	21.73	23.5	0				
20	OPRK	1	99	21.61	21.84	21.78						
20	OPRK	50	0	21.60	21.76	21.70						
20	OPRK	50	24	21.70	21.71	21.71	23.5	0				
20	OPRK	50	50	21.70	21.70	21.58						
20	HOQM	1	0	21.67	21.73	21.77	23.5	0				
20	HOQM	1	49	21.69	21.86	21.62						
20	HOQM	1	99	21.69	21.77	21.74						
20	HOQM	50	0	21.66	21.63	21.70	23.5	0				
20	HOQM	50	24	21.68	21.85	21.61						
20	HOQM	50	50	21.67	21.66	21.75						
20	HOQM	100	0	21.69	21.73	21.70						
20	HOQM	1	0	21.61	21.66	21.59	23.5	0				
20	HOQM	1	49	21.69	21.69	21.76						
20	HOQM	50	24	20.61	20.76	20.63						
20	HOQM	50	50	20.66	20.77	20.67	23.5	1				
20	HOQM	100	0	20.72	20.62	20.66						
20	SSQAM	1	99	18.77	18.85	18.81						
20	SSQAM	50	0	18.77	18.82	18.79						
20	SSQAM	50	24	18.79	18.82	18.79						
20	SSQAM	50	50	18.86	18.87	18.70	23.5	3				
20	SSQAM	100	0	18.78	18.89	18.78						
20	SSQAM	100	0	18.78	18.89	18.78						
Channel												
Frequency (MHz)												
16	OPRK	1	0	21.64	21.71	21.63						
16	OPRK	1	37	21.68	21.58	21.62	23.5	0				
16	OPRK	1	74	21.62	21.64	21.66						
16	OPRK	36	0	21.64	21.68	21.63						
16	OPRK	36	25	21.63	21.59	21.59	23.5	0				
16	OPRK	36	36	21.61	21.69	21.56						
16	OPRK	75	0	21.61	21.66	21.61						
16	HOQM	1	37	21.59	21.62	21.59						
16	HOQM	1	74	21.61	21.66	21.67	23.5	0				
16	HOQM	36	0	21.66	21.62	21.65						
16	HOQM	36	25	21.57	21.55	21.61	23.5	0				
16	HOQM	36	36	21.66	21.64	21.65						
16	HOQM	75	0	21.66	21.64	21.65						
16	HOQM	1	0	21.60	21.59	21.63						
16	HOQM	1	37	21.61	21.71	21.68	23.5	0				
16	HOQM	1	74	21.62	21.69	21.60						
16	HOQM	36	0	20.52	20.88	20.69						
16	HOQM	36	25	18.86	18.81	18.86	23.5	1				
16	HOQM	36	36	20.52	20.76	20.55						
16	HOQM	75	0	20.63	20.53	20.59						
16	SSQAM	1	0	18.86	18.86	18.87						
16	SSQAM	1	37	18.71	18.77	18.59	23.5	3				
16	SSQAM	1	74	18.86	18.82	18.89						
16	SSQAM	36	0	18.83	18.88	18.88						
16	SSQAM	36	25	18.88	18.73	18.87						
16	SSQAM	36	36	18.87	18.74	18.81	23.5	0				
16	SSQAM	75	0	18.86	18.87	18.86						
16	SSQAM	75	0	18.86	18.87	18.86						
Channel												
Frequency (MHz)												
14	OPRK	1	0	21.62	21.72	21.64						
14	OPRK	1	37	21.66	21.57	21.63	23.5	0				
14	OPRK	1	74	21.62	21.64	21.66						
14	OPRK	36	0	21.64	21.68	21.63						
14	OPRK	36	25	21.63	21.59	21.59	23.5	0				
14	OPRK	36	36	21.61	21.69	21.56						
14	OPRK	75	0	21.61	21.66	21.61						
14	HOQM	1	37	21.59	21.62	21.59						
14	HOQM	1	74	21.61	21.66	21.67	23.5	0				
14	HOQM	36	0	21.66	21.62	21.65						
14	HOQM	36	25	21.57	21.55	21.61	23.5	0				
14	HOQM	36	36	21.66	21.64	21.65						
14	HOQM	75	0	21.66	21.64	21.65						
14	HOQM	1	0	21.60	21.59	21.63						
14	HOQM	1	37	21.61	21.71	21.68	23.5	0				
14	HOQM	1	74	21.62	21.69	21.60						
14	HOQM	36	0	20.52	20.88	20.69						
14	HOQM	36	25	18.86	18.81	18.86	23.5	1				
14	HOQM	36	36	20.52	20.76	20.55						
14	HOQM	75	0	20.63	20.53	20.59						
14	SSQAM	1	0	18.86	18.86	18.87						
14	SSQAM	1	37	18.71	18.77	18.59	23.5	3				
14	SSQAM	1	74	18.86	18.82	18.89						
14	SSQAM	36	0	18.83	18.88	18.88						
14	SSQAM	36	25	18.88	18.73	18.87						
14	SSQAM	36	36	18.87	18.74	18.81	23.5	0				
14	SSQAM	75	0	18.86	18.87	18.86						
14	SSQAM	75	0	18.86	18.87	18.86						

Band 4 Modem B Ant0												
BW (MHz)	Modem Ant	RB Size (kHz)	RB Offset	Power Min (Ch./Freq.)	Power Max (Ch./Freq.)	Power High (Ch./Freq.)	Time Up (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
20	OPRK	1	0	18.87	18.91	18.86						
20	OPRK	1	49	18.82	18.90	18.82	23.5	0				
20	OPRK	1	99	18.96	18.84	18.96						
20	OPRK	50	0	18.72	18.97	18.87						
20	OPRK	50	24	18.90	18.89	18.86	23.5	0				
20	OPRK	50	50	18.70	18.82	18.74						
20	OPRK	100	0	18.61	18.72	18.68						
20	HOQM	1	0	18.88	18.91	18.89	23.5	0				
20	HOQM	1	49	18.84	18.97	18.91						
20	HOQM	1	99	18.80	18.78	18.85						
20	HOQM	50	0	18.89	18.78	18.91	23.5	0				
20	HOQM	50	24	18.82	18.71	18.92						
20	HOQM	50	50	18.86	18.84	18.84						
20	HOQM	100	0	18.74	18.74	18.86						
20	HOQM	1	0	18.76	18.84	18.84	23.5	0				
20	HOQM	1	49	18.75	18.78	18.86						
20	HOQM	50	0	18.72	18.84	18.72						
20	HOQM	50	24	18.76	18.85	18.80	23.5	0				
20	HOQM	50	50	18.84	18.78	18.75						
20	HOQM	100	0	18.78	18.72	18.67						
20	SSQAM	1	0	18.83	18.82	18.70						
20	SSQAM	1	49	18.76	18.82	18.49	23.5	0				
20	SSQAM	1	99	18.84	18.89	18.86						
20	SSQAM	50	0	18.87	18.72	18.86						
20	SSQAM	50	24	18.79	18.85	18.79	23.5	0				
20	SSQAM	50	50	18.71	18.81	18.56						
20	SSQAM	100	0	18.87	18.87	18.84						
Channel												
Frequency (MHz)												
16	OPRK	1	0	18.79	18.91	18.84						
16	OPRK	1	37	18.84	18.83	18.91	23.5	0				
16	OPRK	1	74	18.86	18.79	18.94						
16	OPRK	36	0	18.79	18.90	18.73						
16	OPRK	36	25	18.84	18.71	18.82	23.5	0				
16	OPRK	36	36	18.79	18.80	18.82						
16	OPRK	75	0	18.84	18.81	18.72						
16	OPRK	75	0	18.83	18.81	18.83						
16	HOQM	1	37	18.89	18.90	18.62						
16	HOQM	1	74	18.86	18.72	18.97	23.5	1				
16	HOQM	36	0	18.81	18.78	18.96						
16	HOQM	36	25	18.73	18.88	18.55	23.5	0				
16	HOQM	36	36	18.83	18.80	18.87						
16	HOQM	75	0	18.72	18.73	18.50						
16	HOQM	75	0	18.83	18.71	18.58	23.5	0				
16	HOQM	1	0	18.82	18.80	18.53						
16	HOQM	1	37	18.87	18.84	18.53						
16	HOQM	1	74	18.80	18.81	18.59	23.5	0				
16	HOQM	36	0	18.83	18.80	18.59						
16	HOQM	36	25	18.82	18.80	18.54						
16	HOQM	36	36	18.82	18.87	18.63						
16	HOQM	75	0	18.83	18.78	18.49	23.5	0				
16	SSQAM	1	0	18.83	18.82	18.70						
16	SSQAM	1	49	18.76	18.82	18.49	23.5	0				
16	SSQAM	1	99	18.84	18.89	18.86						
16	SSQAM	50	0	18.87	18.72	18.86						
16	SSQAM	50	24	18.79	18.85	18.79	23.5	0				
16	SSQAM	50	50	18.71	18.81	18.56						
16	SSQAM	100	0	18.87	18.87	18.84						
Channel												
Frequency (MHz)												
20	OPRK	1	0	18.87	18.91	18.86						
20	OPRK	1	49	18.82	18.90	18.82	23.5	0				
20	OPRK	1	99	18.96	18.84	18.96						
20	OPRK	50	0	18.72	18.97	18.87						
20	OPRK	50	24	18.90	18.90	18.86	23.5	0				
20	OPRK	50	50	18.70	18.82	18.74						
20	OPRK	100	0	18.61	18.72	18.68						
20	HOQM	1	0	18.88	18.91	18.89	23.5	0				
20	HOQM	1	49	18.84	18.97	18.91						
20	HOQM	1	99	18.80	18.88	18.85						
20	HOQM	50	0	18.89	18.78	18.91	23.5	0				
20	HOQM	50	24	18.82	18.71	18.92						
20	HOQM	50	50	18.86	18.84	18.84						
20	HOQM	100	0	18.74	18.74	18.86						
20	HOQM	1	0	18.76	18.84	18.84	23.5	0				
20	HOQM	1	49	18.75	18.78	18.86						
20	HOQM	50	0	18.72	18.84	18.72						
20	HOQM	50	24	18.76	18.85	18.80	23.5	0				
20	HOQM	50	50	18.84	18.78	18.75						
20	HOQM	100	0	18.78	18.72	18.67						
20	SSQAM	1	0	18.83	18.82	18.70						
20	SSQAM	1	49	18.76	18.82	18.49	23.5	0				
20	SSQAM	1	99	18.84	18.89	18.86						
20	SSQAM	50	0	18.87	18.72	18.86						
20	SSQAM	50	24	18.79	18.85	18.79	23.5	0				
20	SSQAM	50	50	18.71	18.81	18.56						
20	SSQAM	100	0	18.87	18.87	18.84						
Channel												
Frequency (MHz)												
16	OPRK	1	0	18.79	18.91	18.84						
16	OPRK	1	37	18.84	18.83	18.91	23.5	0				
16	OPRK	1	74	18.86	18.79	18.94						
16	OPRK	36	0	18.79	18.90	18.73						
16	OPRK	36	25	18.84	18.71	18.82	23.5	0				
16	OPRK	36	36	18.79	18.80	18.82						
16	OPRK	75	0	18.84	18.81	18.72						
16	OPRK	75	0	18.83	18.81	18.83						
16	HOQM	1	37	18.89	18.90	18.62						
16	HOQM	1	74	18.86	18.72	18.97	23.5	1				
16	HOQM	36	0	18.81	18.78	18.96						
16	HOQM	36	25	18.73	18.88	18.55	23.5	0				
16	HOQM	36	36	18.83	18.80	18.87						
16	HOQM	75	0	18.72	18.73	18.50						
16	HOQM	75	0	18.83	18.71	18.58	23.5	0				
16	HOQM	1	0	18.82	18.80	18.53						
16	HOQM	1	37	18.87	18.84	18.53						
16	HOQM	1	74	18.80	18.81	18.59	23.5	0				
16	HOQM	36	0	18.83	18.80	18.59						
16	HOQM	36	25	18.82	18.80	18.54						
16	HOQM	36	36	18.82	18.87	18.63						
16	HOQM	75	0	18.83	18.78	18.49	23.5	0				
16	SSQAM	1	0	18.83	18.82	18.70						
16	SSQAM	1	49	18.76	18.82	18.49	23.5	0				
16	SSQAM	1	99	18.84	18.89	18.86						
16	SSQAM	50	0	18.87	18.72	18.86						
16	SSQAM	50	24	18.79	18.85	18.79	23.5	0				
16	SSQAM	50	50	18.71	18.81	18.56						
16	SSQAM	100	0	18.87	18.87	18.84						
Channel												
Frequency (MHz)												
20	OPRK	1	0	18.87	18.91	18.86						
20	OPRK	1	49	18.82	18.90	18.82	23.5	0				
20	OPRK	1	99	18.96	18.84	18.96						
20	OPRK	50	0	18.72	18.97	18.87						
20	OPRK	50	24	18.90	18.90	18.86	23.5	0				
20	OPRK	50	50	18.70	18.82	18.74						
20	OPRK	100	0	18.61	18.72	18.68						
20	HOQM	1	0	18.88	18.91	18.89	23.5	0				
20	HOQM	1	49	18.84	18.97	18.91						
20	HOQM	1	99	18.80	18.88	18.85						
20	HOQM	50	0	18.89	18.78	18.91	23.5	0				
20	HOQM	50	24	18.82	18.71	18.92						
20	HOQM	50	50	18.86	18.84	18.84						
20	HOQM	100	0	18.74	18.74	18.86						
20	HOQM	1	0	18.76	18.84	18.84	23.5	0				
20	HOQM	1	49	18.75	18.78	18.86						
20	HOQM	50	0	18.72	18.84	18.72						
20	HOQM	50	24	18.76	18.85	18.80	23.5	0				
20	HOQM	50	50	18.84	18.78	18.75						
20	HOQM	100	0	18.78	18.72	18.67						
20	SSQAM	1	0	18.83	18.82	18.70						
20	SSQAM	1	49	18.76	18.82	18.49	23.5	0				
20	SSQAM	1	99	18.84	18.89	18.86						
20	SSQAM	50	0	18.87	18.72	18.86						
20	SSQAM	50	24	18.79	18.85	18.79	23.5	0				
20	SSQAM	50	50	18.71	18.81	18.56						

Band 12 Modem B Ant0												
BW (MHz)	Modem ID	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Time up (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.78	23.83	23.80			24.5	0		
10	QPSK	1	25	23.82	23.89	23.70						
10	QPSK	1	49	23.76	23.74	23.68						
10	QPSK	25	12	22.79	22.77	22.88						
10	QPSK	25	25	22.72	22.81	22.72			23.5	1		
10	QPSK	50	0	22.82	22.80	22.85						
10	16QAM	1	0	22.81	22.87	22.76						
10	16QAM	1	25	22.74	22.83	22.74						
10	16QAM	25	0	21.73	21.78	21.78			23.5	1		
10	16QAM	25	12	21.82	21.85	21.72						
10	16QAM	25	25	21.74	21.88	21.83						
10	16QAM	50	0	21.84	21.75	21.75						
10	16QAM	50	1	21.78	21.88	21.76			22.5	2		
10	16QAM	1	25	21.75	21.84	21.83						
10	16QAM	1	49	21.74	21.83	21.74						
10	16QAM	25	0	20.73	20.81	20.88						
10	16QAM	25	12	20.76	20.89	20.73			21.5	3		
10	16QAM	25	25	20.78	20.79	20.88						
10	16QAM	50	0	20.79	20.89	20.78						
10	16QAM	1	0	18.74	18.78	18.81						
10	16QAM	1	25	18.71	18.80	18.73			19.5	5		
10	16QAM	1	49	18.85	18.77	18.74						
10	16QAM	25	0	18.80	18.81	18.81						
10	16QAM	25	12	18.86	18.90	18.86						
10	16QAM	25	25	18.71	18.89	18.87			19.5	5		
10	16QAM	50	0	18.87	18.87	18.86						
Channel												
Frequency (MHz)												
9	QPSK	1	0	23.68	23.68	23.63					24.5	0
9	QPSK	1	12	23.67	23.61	23.63						
9	QPSK	1	24	23.71	23.68	23.65						
9	QPSK	12	0	22.87	22.81	22.81						
9	QPSK	12	7	22.82	22.79	22.82			23.5	1		
9	QPSK	12	13	22.84	22.79	22.76						
9	QPSK	25	0	22.78	22.77	22.79						
9	16QAM	1	0	22.85	22.71	22.71						
9	16QAM	1	12	22.75	22.73	22.59			23.5	1		
9	16QAM	1	24	22.69	22.78	22.69						
9	16QAM	12	0	21.61	21.73	21.72						
9	16QAM	12	7	21.68	21.80	21.64						
9	16QAM	12	13	21.67	21.76	21.78			22.5	2		
9	16QAM	25	0	21.67	21.68	21.72						
9	16QAM	1	0	21.68	21.77	21.68						
9	16QAM	1	12	21.65	21.81	21.78						
9	16QAM	1	24	21.50	21.77	21.65			21.5	3		
9	16QAM	12	0	20.63	20.69	20.64						
9	16QAM	12	7	20.67	20.78	20.63						
9	16QAM	12	13	20.71	20.74	20.70						
9	16QAM	25	0	20.63	20.72	20.61			19.5	5		
9	16QAM	1	0	18.61	18.67	18.76						
9	16QAM	1	12	18.54	18.76	18.63						
9	16QAM	1	24	18.83	18.59	18.57						
9	16QAM	12	0	18.62	18.62	18.72			19.5	5		
9	16QAM	12	7	18.77	18.82	18.80						
9	16QAM	12	13	18.87	18.86	18.74						
9	16QAM	25	0	18.87	18.86	18.74						
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.66	23.66	23.66			24.5	0		
3	QPSK	8	0	23.54	23.54	23.65						
3	QPSK	1	14	23.69	23.68	23.62						
3	QPSK	8	7	22.69	22.67	22.57						
3	QPSK	4	0	22.72	22.62	22.80			23.5	1		
3	QPSK	8	7	22.68	22.77	22.78						
3	QPSK	16	0	22.70	22.70	22.68						
3	16QAM	1	0	22.86	22.75	22.73						
3	16QAM	1	8	22.87	22.86	22.58			23.5	1		
3	16QAM	1	14	22.68	22.68	22.70						
3	16QAM	8	0	21.60	21.69	21.65						
3	16QAM	8	4	21.64	21.69	21.54						
3	16QAM	8	7	21.63	21.83	21.69			22.5	2		
3	16QAM	15	0	21.72	21.65	21.70						
3	16QAM	1	0	21.69	21.81	21.60						
3	16QAM	1	8	21.57	21.72	21.80						
3	16QAM	1	14	21.69	21.67	21.61			21.5	3		
3	16QAM	8	0	20.63	20.68	20.81						
3	16QAM	8	4	20.67	20.67	20.68						
3	16QAM	8	7	20.63	20.76	20.62						
3	16QAM	15	0	20.76	20.84	20.65			19.5	5		
3	16QAM	1	0	18.71	18.80	18.78						
3	16QAM	1	8	18.86	18.77	18.83						
3	16QAM	1	14	18.87	18.72	18.83						
3	16QAM	12	0	18.80	18.85	18.76			19.5	5		
3	16QAM	12	7	18.80	18.77	18.81						
3	16QAM	12	13	18.85	18.76	18.82						
3	16QAM	15	0	18.84	18.83	18.76						
Channel												
Frequency (MHz)												
14	QPSK	1	0	23.71	23.69	23.75			24.5	0		
14	QPSK	3	0	23.62	23.66	23.72						
14	QPSK	1	5	23.84	23.71	23.64						
14	QPSK	3	1	23.65	23.76	23.76						
14	QPSK	3	3	23.74	23.76	23.68			23.5	1		
14	QPSK	6	0	22.72	22.80	22.73						
14	16QAM	1	0	22.76	22.83	22.82						
14	16QAM	1	3	22.77	22.79	22.81						
14	16QAM	1	5	22.76	22.80	22.70			23.5	1		
14	16QAM	3	0	22.78	22.87	22.76						
14	16QAM	3	1	22.86	22.88	22.87						
14	16QAM	3	3	22.80	22.89	22.70						
14	16QAM	6	0	21.77	21.88	21.83			22.5	2		
14	16QAM	1	0	21.70	21.80	21.80						
14	16QAM	1	3	21.82	21.69	21.85						
14	16QAM	1	5	21.73	21.90	21.81						
14	16QAM	3	0	21.81	21.76	21.77			22.5	2		
14	16QAM	3	1	21.72	21.77	21.80						
14	16QAM	3	3	21.78	21.79	21.72						
14	16QAM	6	0	20.83	20.87	20.86						
14	16QAM	1	0	18.82	18.91	18.84			21.5	3		
14	16QAM	1	3	18.79	18.86	18.80						
14	16QAM	1	5	18.72	18.89	18.79						
14	16QAM	3	0	18.82	18.76	18.76						
14	16QAM	3	1	18.75	18.76	18.76			19.5	5		
14	16QAM	3	3	18.89	18.77	18.80						
14	16QAM	6	0	18.77	18.80	18.82						
14	16QAM	6	0	18.77	18.80	18.82						

Band 13 Modem B Ant0										
BW (MHz)	Modem ID	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Time- up (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.40	23.40	23.40		24.5	0	
10	QPSK	1	25	23.38	23.38	23.38				
10	QPSK	1	49	23.28	23.28	23.28				
10	QPSK	25	0	22.42	22.42			23.5		
10	QPSK	25	12	22.41	22.41					
10	QPSK	25	24	22.39	22.39					
10	QPSK	50	0	22.38	22.38			23.5		
10	16QAM	1	0	22.39	22.39	22.39				
10	16QAM	1	49	22.40	22.40	22.40				
10	16QAM	25	0	21.37	21.37			22.5	2	
10	16QAM	25	12	21.38	21.38					
10	16QAM	25	25	21.42	21.42					
10	16QAM	50	0	21.45	21.45			22.5		
10	16QAM	50	12	21.46	21.46					
10	16QAM	50	25	21.40	21.40					
10	64QAM	1	25	21.40	21.40			22.5	2	
10	64QAM	1	49	21.35	21.35					
10	64QAM	1	73	21.32	21.32					
10	64QAM	25	12	20.39	20.39			21.5	3	
10	64QAM	25	25	20.48	20.48					
10	64QAM	25	49	20.47	20.47					
10	256QAM	1	0	19.73	19.73			19.5	5	
10	256QAM	1	25	18.85	18.85					
10	256QAM	1	49	18.86	18.86					
10	256QAM	25	0	18.71	18.71			19.5	5	
10	256QAM	25	12	18.67	18.67					
10	256QAM	25	24	18.69	18.69					
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.03	23.03	23.03		24.5	0	
5	QPSK	1	24	23.11	23.08	23.15				
5	QPSK	1	29	23.04	23.17	23.04				
5	QPSK	12	0	22.53	22.52	22.55		23.5		
5	QPSK	12	18	22.68	22.50	22.15				
5	QPSK	12	19	22.23	22.37	22.28				
5	QPSK	12	27	22.77	22.54	22.54		23.5		
5	16QAM	1	0	22.14	22.20	22.24				
5	16QAM	1	12	22.17	22.06	22.28				
5	16QAM	1	24	22.09	22.41	22.41		23.5	1	
5	16QAM	12	0	21.08	21.21	21.26				
5	16QAM	12	7	21.09	21.19	21.14				
5	16QAM	12	13	21.28	21.34	21.21		22.5	2	
5	16QAM	25	0	21.15	21.34	21.22				
5	16QAM	25	12	21.25	21.25	21.23				
5	16QAM	1	12	21.21	21.34	21.20		22.5	2	
5	64QAM	1	24	21.17	21.22	21.10				
5	64QAM	12	0	20.18	20.24	20.22				
5	64QAM	12	7	20.26	20.20	20.12		21.5	3	
5	64QAM	12	13	20.20	20.40	20.11				
5	64QAM	25	0	20.42	19.87	19.83				
5	256QAM	1	24	18.47	18.67	18.53		19.5	5	
5	256QAM	1	12	18.43	18.49	18.41				
5	256QAM	12	0	18.44	18.62	18.52				
5	256QAM	12	7	18.42	18.50	18.54		19.5	5	
5	256QAM	12	13	18.44	18.58	18.54				
5	256QAM	25	0	18.47	18.56	18.52				

Band 25 Modem B Ant0										
BW (MHz)	Modem (MHz)	RB Size	RB Offset	Power Low Ch./Freq.	Power Modem Ch./Freq.	Power High Ch./Freq.	Time up limit (sec)	Uplink (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.62	21.62	21.68				
20	QPSK	1	49	21.77	21.73	21.77	23.5	0		
20	QPSK	1	98	21.73	21.78	21.71				
20	QPSK	50	0	21.84	21.85	21.81				
20	QPSK	50	24	21.83	21.83	21.88	23.5	0		
20	QPSK	50	50	21.89	21.83	21.89				
20	QPSK	100	0	21.78	21.84	21.81				
20	QPSK	100	0	21.85	21.85	21.78				
20	16QAM	1	49	21.88	21.92	21.87	23.5	0		
20	16QAM	1	99	21.77	21.80	21.73				
20	16QAM	50	0	21.76	21.82	21.74				
20	16QAM	50	24	21.75	21.84	21.70	23.5	0		
20	16QAM	50	50	21.87	21.86	21.91				
20	16QAM	100	0	21.82	21.82	21.80				
20	16QAM	1	0	21.74	21.85	21.80	23.5	0		
20	16QAM	1	49	21.89	21.91	21.91				
20	16QAM	1	99	21.86	21.85	21.87				
20	16QAM	50	0	20.88	20.91	20.90				
20	16QAM	50	24	20.88	20.94	20.90	23.5	1		
20	16QAM	50	50	20.78	20.83	20.83				
20	16QAM	100	0	20.75	20.84	20.78				
20	256QAM	1	0	18.91	18.97	18.95				
20	256QAM	1	49	18.92	18.90	18.93	20.5	3		
20	256QAM	50	24	18.87	18.92	18.91				
20	256QAM	50	50	18.89	18.89	18.92				
20	256QAM	100	0	18.85	18.85	18.87				
Channel										
Frequency (MHz)										
18	QPSK	1	0	21.78	21.81	21.88				
18	QPSK	1	87	21.77	21.80	21.78	23.5	0		
18	QPSK	1	74	21.72	21.78	21.71				
18	QPSK	36	0	21.76	21.83	21.70				
18	QPSK	36	36	21.80	21.83	21.78	23.5	0		
18	QPSK	36	36	21.85	21.82	21.81				
18	QPSK	75	0	21.79	21.84	21.77				
18	16QAM	1	0	21.71	21.73	21.64				
18	16QAM	1	37	21.85	21.81	21.77	23.5	0		
18	16QAM	1	84	21.74	21.80	21.75				
18	16QAM	36	0	21.75	21.83	21.68				
18	16QAM	36	20	21.64	21.78	21.67	23.5	0		
18	16QAM	75	0	21.70	21.83	21.73				
18	16QAM	1	0	21.87	21.90	21.75	23.5	0		
18	16QAM	1	87	21.85	21.89	21.85				
18	16QAM	1	74	21.73	21.78	21.65				
18	16QAM	36	0	20.79	20.89	20.85				
18	16QAM	36	20	20.85	20.91	20.73	23.5	1		
18	16QAM	36	36	20.76	20.74	20.73				
18	16QAM	75	0	20.84	20.82	20.69				
18	16QAM	1	0	18.88	18.85	18.80				
18	256QAM	1	37	18.96	18.89	18.93	20.5	3		
18	256QAM	1	74	18.81	18.81	18.86				
18	256QAM	36	0	18.82	18.82	18.80				
18	256QAM	36	20	18.98	18.90	18.97	20.5	3		
18	256QAM	36	36	18.78	18.84	18.82				
18	256QAM	75	0	18.83	18.87	18.78				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.81	21.84	21.82				
10	QPSK	1	25	21.75	21.72	21.77	23.5	0		
10	QPSK	1	49	21.77	21.77	21.73				
10	QPSK	25	0	21.72	21.82	21.69				
10	QPSK	25	12	21.77	21.83	21.80	23.5	0		
10	QPSK	25	25	21.81	21.71	21.80				
10	QPSK	50	0	21.74	21.84	21.71				
10	16QAM	1	0	21.77	21.84	21.75				
10	16QAM	1	25	21.78	21.88	21.81	23.5	0		
10	16QAM	1	49	21.88	21.88	21.71				
10	16QAM	25	0	21.69	21.74	21.63				
10	16QAM	25	12	21.88	21.79	21.82	23.5	0		
10	16QAM	25	16	21.81	21.74	21.88				
10	16QAM	50	0	21.73	21.83	21.78				
10	16QAM	1	0	21.85	21.83	21.69	23.5	0		
10	16QAM	1	49	21.85	21.82	21.80				
10	16QAM	1	49	21.83	21.74	21.81				
10	16QAM	25	0	20.78	20.89	20.77				
10	16QAM	25	12	20.82	20.87	20.85	23.5	1		
10	16QAM	25	25	20.58	20.78	20.82				
10	16QAM	50	0	20.85	20.82	20.67				
10	256QAM	1	0	18.88	18.85	18.84				
10	256QAM	1	25	18.88	18.90	18.86	20.5	3		
10	256QAM	1	49	18.71	18.85	18.96				
10	256QAM	25	0	18.82	18.89	18.78				
10	256QAM	25	12	18.88	18.93	18.85	20.5	3		
10	256QAM	25	25	18.83	18.77	18.91				
10	256QAM	50	0	18.78	18.89	18.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.79	21.82	21.78				
5	QPSK	1	12	21.75	21.70	21.79	23.5	0		
5	QPSK	1	24	21.79	21.70	21.77				
5	QPSK	12	0	21.78	21.84	21.68				
5	QPSK	12	7	21.87	21.87	21.82	23.5	0		
5	QPSK	12	13	21.87	21.80	21.87				
5	QPSK	25	0	21.72	21.82	21.68				
5	16QAM	1	0	21.74	21.88	21.72				
5	16QAM	1	12	21.80	21.86	21.85	23.5	0		
5	16QAM	1	14	21.71	21.87	21.61				
5	16QAM	12	0	21.87	21.78	21.68				
5	16QAM	12	7	21.69	21.75	21.61	23.5	0		
5	16QAM	12	13	21.77	21.73	21.86				
5	16QAM	25	0	21.81	21.89	21.72				
5	16QAM	1	0	21.87	21.84	21.70	23.5	0		
5	16QAM	1	24	21.71	21.87	21.61				
5	16QAM	12	0	20.79	20.80	20.69				
5	16QAM	12	7	20.81	20.81	20.85	23.5	1		
5	16QAM	12	13	20.78	20.74	20.71				
5	16QAM	25	0	20.88	20.80	20.75				
5	256QAM	1	0	18.90	18.92	18.91				
5	256QAM	1	12	18.88	18.92	18.88	20.5	3		
5	256QAM	1	24	18.76	18.87	18.89				
5	256QAM	12	0	18.88	18.90	18.81				
5	256QAM	12	7	18.87	18.97	18.89	20.5	3		
5	256QAM	12	13	18.83	18.85	18.98				
5	256QAM	25	0	18.89	18.90	18.79				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.75	21.83	21.79				
3	QPSK	1	8	21.76	21.78	21.79	23.5	0		
3	QPSK	1	14	21.76	21.75	21.78				
3	QPSK	8	0	21.77	21.85	21.75				
3	QPSK	8	4	21.83	21.82	21.82	23.5	0		
3	QPSK	8	7	21.81	21.75	21.78				
3	QPSK	16	0	21.72	21.87	21.68				
3	16QAM	1	0	21.76	21.84	21.71				
3	16QAM	1	8	21.79	21.89	21.81	23.5	0		
3	16QAM	1	14	21.85	21.79	21.82				
3	16QAM	8	0	21.75	21.78	21.73				
3	16QAM	8	4	21.89	21.72	21.87	23.5	0		
3	16QAM	8	7	21.80	21.84	21.84				
3	16QAM	16	0	21.70	21.87	21.72				
3	16QAM	1	0	21.79	21.86	21.69	23.5	0		
3	16QAM	1	0	21.78	21.79	21.89				
3	16QAM	1	14	21.80	21.83	21.83				
3	16QAM	8	0	20.83	20.80	20.87	23.5	1		
3	16QAM	8	7	20.73	20.81	20.79				
3	256QAM	1	0	18.99	18.99	18.99				
3	256QAM	1	8	18.84	18.98	18.93	20.5	3		
3	256QAM	1	14	18.79	18.90	18.86				
3	256QAM	8	0	18.77	18.90	18.88				
3	256QAM	8	4	18.89	18.87	18.99	20.5	3		
3	256QAM	8	7	18.86	18.84	18.82				
3	256QAM	16	0	18.89	18.90	18.79				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.67	18.60	19.14				
1.4	QPSK	1	21.65	21.78	21.87					
1.4	QPSK	1	21.78	21.72	21.83					
1.4	QPSK	5	0	21.83	21.82	21.82	23.5	0		
1.4	QPSK	5	3	21.86	21.87	21.87				
1.4	QPSK	5	21.86	21.82	21.86					
1.4	QPSK	5	21.81	21.82	21.71	23.5	0			
1.4	16QAM	1	0	21.78	21.87	21.87				
1.4	16QAM	1	21.68	21.89	21.77	23.5	0			
1.4	16QAM	5	0	21.83	21.82	21.83				
1.4	16QAM	5	3	21.86	21.84	21.81				
1.4	16QAM	5	21.67	21.74	21.81					
1.4	16QAM	5	21.71	21.82	21.70	23.5	0			
1.4	16QAM	5	21.89	21.85	21.78					
1.4	16QAM	5	21.77	21.82	21.70					
1.4	16QAM	5	21.83	21.89	18.97					

Band 66 Modem B Ant0											Band 71 Modem B Ant0										
BW (MHz)	Modem ID	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Time-up (sec)	APRS (dB)			BW (MHz)	Modem ID	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Time-up (sec)	APRS (dB)		
Channel											Channel										
Frequency (MHz)											Frequency (MHz)										
20	QPSK	1	0	18.88	18.92	18.85					20	QPSK	1	0	22.72	22.76	22.77				
20	QPSK	1	49	18.83	18.89	18.80	20.5	0			20	QPSK	1	49	22.72	22.76	22.64	24.5	0		
20	QPSK	50	0	18.86	18.90	18.75					20	QPSK	50	0	22.76	22.82	22.70				
20	QPSK	50	24	18.89	18.90	18.81					20	QPSK	50	24	21.81	21.86	21.81				
20	QPSK	100	0	18.81	18.89	18.75	20.5	0			20	QPSK	100	0	21.81	21.86	21.77	21.5	1		
20	16QAM	1	0	18.87	18.94	18.71					20	QPSK	100	24	21.78	21.79	21.79				
20	16QAM	1	49	18.87	18.96	18.81					20	16QAM	1	0	21.70	21.78	21.84				
20	16QAM	1	99	18.89	18.92	18.73					20	16QAM	1	49	21.78	21.79	21.79	21.5	1		
20	16QAM	50	0	18.81	18.89	18.89					20	16QAM	50	0	20.84	20.79	20.81				
20	16QAM	50	24	18.89	18.93	18.72	20.5	0			20	16QAM	50	24	21.70	21.71	21.70				
20	16QAM	100	0	18.85	18.98	18.88					20	16QAM	100	0	20.72	20.94	20.72	22.5	0		
20	64QAM	1	0	18.89	18.94	18.86					20	64QAM	1	0	20.76	20.62	20.85				
20	64QAM	1	49	18.92	18.94	18.82	20.5	0			20	64QAM	1	49	20.71	20.51	20.81	22.5	2		
20	64QAM	50	0	18.85	18.90	18.73					20	64QAM	50	0	20.72	20.62	20.70				
20	64QAM	50	24	18.86	18.96	18.73	20.5	0			20	64QAM	50	24	19.71	19.78	19.74	21.5	3		
20	64QAM	100	0	18.83	18.85	18.81					20	64QAM	100	0	19.73	19.75	19.85				
20	256QAM	1	0	18.86	18.76	18.53					20	256QAM	1	0	19.85	19.81	19.78				
20	256QAM	1	49	18.75	18.87	18.89	20.5	0			20	256QAM	1	49	20.57	20.62	20.70				
20	256QAM	50	0	18.74	18.77	18.60					20	256QAM	50	0	17.66	17.77	17.63	19.5	1		
20	256QAM	50	24	18.80	18.83	18.73	20.5	0			20	256QAM	50	24	17.64	17.62	17.64				
20	256QAM	100	0	18.76	18.89	18.69					20	256QAM	100	0	17.70	17.73	17.66	19.5	1		
Channel											Channel										
Frequency (MHz)											Frequency (MHz)										
3	QPSK	1	0	17.73	17.84	17.72					3	QPSK	1	0	68.57	68.65	68.55				
3	QPSK	1	37	18.80	18.82	18.79	20.5	0			3	QPSK	1	37	22.67	22.62	22.63	24.5	0		
3	QPSK	1	74	18.79	18.82	18.73					3	QPSK	1	74	22.51	22.53	22.56				
3	QPSK	36	0	18.73	18.81	18.64					3	QPSK	36	0	21.75	21.76	21.68				
3	QPSK	36	20	18.75	18.83	18.67	20.5	0			3	QPSK	36	20	21.68	21.69	21.67	21.5	1		
3	QPSK	36	36	18.79	18.86	18.77					3	QPSK	36	36	21.67	21.63	21.74				
3	16QAM	1	0	18.86	18.83	18.58					3	QPSK	75	0	21.57	21.80	21.66				
3	16QAM	1	74	18.74	18.75	18.65	20.5	0			3	16QAM	1	0	21.78	21.79	21.80				
3	16QAM	1	37	18.75	18.90	18.69					3	16QAM	1	37	21.67	21.64	21.59	21.5	1		
3	16QAM	36	0	18.68	18.74	18.57					3	16QAM	36	0	21.59	21.65	21.54				
3	16QAM	36	20	18.78	18.91	18.67	20.5	0			3	16QAM	36	20	20.68	20.74	20.65	22.5	2		
3	16QAM	36	36	18.84	18.86	18.74					3	16QAM	36	36	20.68	20.71	20.65				
3	16QAM	75	0	18.70	18.79	18.68					3	16QAM	75	0	20.59	20.68	20.73	22.5	2		
3	64QAM	1	0	18.84	18.88	18.55	20.5	0			3	64QAM	1	0	20.69	20.66	20.67				
3	64QAM	36	0	18.77	18.69	18.73					3	64QAM	36	0	20.59	20.68	20.67	21.5	2		
3	64QAM	36	20	18.78	18.90	18.79					3	64QAM	36	20	20.68	20.71	20.69				
3	64QAM	36	36	18.55	18.76	18.73	20.5	0			3	64QAM	75	0	19.68	19.75	19.61				
3	64QAM	75	0	18.70	18.79	18.68					3	64QAM	75	0	19.65	19.74	19.62				
3	256QAM	1	0	18.64	18.70	18.43	20.5	0			3	256QAM	1	0	19.66	19.61	19.60	21.5	3		
3	256QAM	1	37	18.66	18.58	18.53					3	256QAM	1	37	19.67	19.62	19.67				
3	256QAM	1	74	18.50	18.59	18.48					3	256QAM	1	74	19.67	19.62	19.67				
3	256QAM	36	0	18.64	18.63	18.49	20.5	0			3	256QAM	36	0	19.68	19.69	19.68				
3	256QAM	36	20	18.74	18.78	18.67					3	256QAM	36	20	19.67	19.67	19.67	19.5	5		
3	256QAM	36	36	18.69	18.82	18.44					3	256QAM	36	36	19.67	19.67	19.67				
3	256QAM	75	0	18.62	18.73	18.46					3	256QAM	75	0	19.64	19.64	19.66				
Channel											Channel										
Frequency (MHz)											Frequency (MHz)										
5	QPSK	1	0	17.15	17.16	17.15					5	QPSK	1	0	68.57	68.65	68.55				
5	QPSK	1	12	18.72	18.82	18.77	20.5	0			5	QPSK	1	12	22.59	22.70	22.57	24.5	0		
5	QPSK	1	24	18.91	18.89	18.61					5	QPSK	1	24	22.51	22.59	22.59				
5	QPSK	12	0	18.81	18.87	18.67					5	QPSK	12	0	21.65	21.78	21.72	21.5	1		
5	QPSK	12	7	18.76	18.85	18.79	20.5	0			5	QPSK	12	7	21.64	21.78	21.73				
5	QPSK	12	13	18.80	18.81	18.64					5	QPSK	12	13	21.65	21.78	21.73				
5	16QAM	1	0	18.86	18.86	18.86					5	QPSK	25	0	21.62	21.71	21.65				
5	16QAM	1	12	18.78	18.90	18.75	20.5	0			5	QPSK	25	25	21.62	21.64	21.72				
5	16QAM	1	24	18.81	18.86	18.61					5	16QAM	1	0	21.62	21.64	21.55	21.5	1		
5	16QAM	12	0	18.64	18.74	18.61					5	16QAM	12	0	20.70	20.70	20.70				
5	16QAM	12	7	18.79	18.91	18.60	20.5	0			5	16QAM	12	7	20.75	20.82	20.70	22.5	2		
5	16QAM	12	13	18.73	18.89	18.58					5	16QAM	12	13	20.81	20.71	20.68				
5	16QAM	25	0	18.85	18.88	18.63					5	16QAM	25	0	20.58	20.70	20.55				
5	16QAM	25	12	18.79	18.92	18.63	20.5	0			5	16QAM	25	12	20.61	20.69	20.77				
5	16QAM	25	25	18.90	18.77	18.63					5	16QAM	25	25	20.69	20.74	20.65	22.5	2		
5	16QAM	50	0	18.66	18.82	18.63					5	16QAM	50	0	19.68	19.68	19.68				
5	16QAM	50	24	18.80	18.84	18.64					5	16QAM	50	24	19.67	19.62	19.67	21.5	3		
5	16QAM	100	0	18.66	18.82	18.63					5	16QAM	100	0	19.68	19.68	19.69				
5	256QAM	1	0	18.67	18.63	18.64	20.5	0			5	256QAM	1	0	19.67	19.62	19.67				
5	256QAM	1	25	18.84	18.91	18.81					5	256QAM	1	25	18.68	18.72	18.66	19.5	5		
5	256QAM	1	49	18.81	18.96	18.77					5	256QAM	1	49	18.61	18.66	18.62				
5	256QAM	25	0	18.80	18.82	18.72	20.5	0			5	256QAM	25	0	17.59	17.69	17.62				
5	256QAM	25	12	18.91	18.94	18.75					5	256QAM	25	12	17.75	17.66	17.68	19.5	5		
5	256QAM	25	25	18.82	18.90	18.73					5	256QAM	25	25	17.69	17.66	17.61				
5	256QAM	50	0	18.78	18.90	18.68					5	256QAM	50	0	17.66	17.60	17.54	19.5	5		
Channel											Channel										
Frequency (MHz)											Frequency (MHz)										
1.4	QPSK	1	0	18.9.																	

PC3 Band 38 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up [mW]	MPR [dB]	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.23	22.24	22.21			
20	QPSK	1	49	22.09	22.17	22.14	23.5	0	
20	QPSK	1	99	22.16	22.12	22.19			
20	QPSK	50	0	22.13	22.22	22.17			
20	QPSK	50	24	22.21	22.09	22.09			
20	QPSK	50	50	22.16	22.21	22.15	23.5	0	
20	QPSK	100	0	22.12	22.16	22.17			
20	16QAM	1	0	22.08	22.14	22.11			
20	16QAM	1	49	22.14	22.08	22.16	23.5	0	
20	16QAM	1	99	22.19	22.17	22.08			
20	16QAM	50	0	21.66	21.69	21.74			
20	16QAM	50	24	21.80	21.81	21.69			
20	16QAM	50	50	21.73	21.76	21.79	23	0.5	
20	16QAM	100	0	21.69	21.71	21.65			
20	64QAM	1	0	21.70	21.67	21.64			
20	64QAM	1	49	21.81	21.68	21.79	23	0.5	
20	64QAM	1	99	21.67	21.81	21.76			
20	64QAM	50	0	20.79	20.81	20.69			
20	64QAM	50	24	20.66	20.76	20.69			
20	64QAM	50	50	20.73	20.82	20.76	22	1.5	
20	64QAM	100	0	20.65	20.71	20.67			
20	256QAM	1	0	18.69	18.71	18.77			
20	256QAM	1	49	18.71	18.77	18.77	20	3.5	
20	256QAM	1	99	18.69	18.79	18.75			
20	256QAM	50	0	18.66	18.72	18.68			
20	256QAM	50	24	18.72	18.74	18.78			
20	256QAM	50	50	18.60	18.74	18.73	20	3.5	
20	256QAM	100	0	18.72	18.80	18.69			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.16	22.11	22.11			
15	QPSK	1	37	21.95	22.06	22.11	23.5	0	
15	QPSK	1	74	22.03	21.99	22.06			
15	QPSK	36	0	22.01	22.10	22.12			
15	QPSK	36	20	22.10	21.99	22.02	23.5	0	
15	QPSK	36	36	22.05	22.17	22.02			
15	QPSK	75	0	22.00	22.12	22.15			
15	16QAM	1	0	21.88	22.11	21.98	23.5	0	
15	16QAM	1	37	22.05	22.01	22.13			
15	16QAM	74	0	22.10	22.12	21.99			
15	16QAM	36	0	21.54	21.57	21.66			
15	16QAM	36	20	21.71	21.69	21.65	23	0.5	
15	16QAM	36	36	21.61	21.66	21.69			
15	16QAM	75	0	21.56	21.59	21.56			
15	64QAM	1	0	21.66	21.55	21.57			
15	64QAM	1	37	21.78	21.59	21.76	23	0.5	
15	64QAM	74	0	21.56	21.73	21.64			
15	64QAM	36	0	20.70	20.76	20.69			
15	64QAM	36	20	20.57	20.72	20.63	22	1.5	
15	64QAM	36	36	20.67	20.73	20.64			
15	64QAM	75	0	20.60	20.84	20.59			
15	256QAM	1	0	18.63	18.62	18.68			
15	256QAM	1	37	18.65	18.70	18.67	20	3.5	
15	256QAM	1	74	18.65	18.72	18.70			
15	256QAM	36	0	18.64	18.63	18.66			
15	256QAM	36	20	18.67	18.62	18.76			
15	256QAM	36	36	18.72	18.69	18.69	20	3.5	
15	256QAM	75	0	18.67	18.72	18.64			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.16	22.09	22.05			
10	QPSK	1	25	21.95	21.99	21.96	23.5	0	
10	QPSK	1	49	22.01	22.05	22.08			
10	QPSK	25	0	22.03	22.20	22.10			
10	QPSK	25	12	22.19	22.05	22.01	23.5	0	
10	QPSK	25	25	22.10	22.20	22.11			
10	QPSK	50	0	22.04	22.07	22.07			
10	16QAM	1	0	21.97	22.10	22.09			
10	16QAM	1	25	22.11	21.96	22.08	23.5	0	
10	16QAM	1	49	22.13	22.11	21.96			
10	16QAM	25	0	21.59	21.59	21.72			
10	16QAM	25	12	21.71	21.76	21.59	23	0.5	
10	16QAM	50	0	21.61	21.64	21.53			
10	64QAM	1	0	21.59	21.60	21.61			
10	64QAM	25	0	20.70	21.63	21.76	23	0.5	
10	64QAM	1	49	21.56	21.80	21.75			
10	64QAM	25	0	20.76	20.70	20.67			
10	64QAM	25	12	20.57	20.75	20.66	22	1.5	
10	64QAM	25	25	20.63	20.75	20.74			
10	64QAM	50	0	20.60	20.59	20.61			
10	256QAM	1	0	18.67	18.68	18.69			
10	256QAM	1	25	18.60	18.64	18.71	20	3.5	
10	256QAM	1	49	18.64	18.68	18.63			
10	256QAM	25	0	18.61	18.66	18.59			
10	256QAM	25	12	18.59	18.62	18.68	20	3.5	
10	256QAM	25	25	18.59	18.66	18.67			
10	256QAM	50	0	18.70	18.76	18.67			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.16	22.13	22.13			
5	QPSK	1	12	22.01	22.08	22.11	23.5	0	
5	QPSK	1	24	21.99	22.03	22.03			
5	QPSK	12	0	22.03	22.15	22.08			
5	QPSK	12	7	22.10	22.05	22.01	23.5	0	
5	QPSK	12	13	22.06	22.12	22.10			
5	QPSK	25	0	22.10	22.17	22.10			
5	16QAM	1	0	22.07	22.09	22.04			
5	16QAM	1	12	22.01	22.00	22.05	23.5	0	
5	16QAM	1	24	22.09	22.07	22.06			
5	16QAM	12	0	21.61	21.61	21.65			
5	16QAM	12	7	21.70	21.71	21.59	23	0.5	
5	16QAM	12	13	21.62	21.72	21.64			
5	64QAM	1	0	21.68	21.56	21.55			
5	64QAM	1	12	21.78	21.66	21.72	23	0.5	
5	64QAM	1	24	21.65	21.69	21.63			
5	64QAM	12	0	20.75	20.73	20.60			
5	64QAM	12	7	20.63	20.65	20.60	22	1.5	
5	64QAM	12	13	20.65	20.71	20.64			
5	64QAM	25	0	20.57	20.63	20.66			
5	256QAM	1	0	18.61	18.68	18.70			
5	256QAM	1	12	18.59	18.67	18.67	20	3.5	
5	256QAM	1	24	18.61	18.69	18.66			
5	256QAM	12	0	18.55	18.62	18.65			
5	256QAM	12	7	18.60	18.65	18.75			
5	256QAM	12	13	18.72	18.65	18.68			
5	256QAM	25	0	18.64	18.77	18.67	20	3.5	

PC2 Band 38 Modem B Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tuneup (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.23	22.24	22.21			
20	QPSK	1	49	22.09	22.17	22.14	23.5	0	
20	QPSK	1	99	22.16	22.12	22.19			
20	QPSK	50	0	22.13	22.22	22.17			
20	QPSK	50	24	22.21	22.09	22.09	23.5	0	
20	QPSK	50	50	22.16	22.21	22.15			
20	QPSK	100	0	22.12	22.16	22.17			
20	16QAM	1	0	22.08	22.14	22.11			
20	16QAM	1	49	22.14	22.08	22.16	23.5	0	
20	16QAM	1	99	22.19	22.17	22.08			
20	16QAM	50	0	22.04	22.14	22.06			
20	16QAM	50	24	22.08	22.04	22.07	23.5	0	
20	16QAM	50	50	22.11	22.16	22.07			
20	16QAM	100	0	22.01	22.13	22.06			
20	64QAM	1	0	22.04	22.09	22.04			
20	64QAM	1	49	22.13	21.95	22.12	23.5	0	
20	64QAM	1	99	22.07	22.12	21.96			
20	64QAM	50	0	22.10	22.12	22.14			
20	64QAM	50	24	22.15	22.04	21.98	23.5	0	
20	64QAM	50	50	22.08	22.19	22.12			
20	64QAM	100	0	22.10	22.12	22.09			
20	256QAM	1	0	20.22	20.22	20.15			
20	256QAM	1	49	20.13	20.19	20.08	21.5	2	
20	256QAM	1	99	20.21	20.18	20.15			
20	256QAM	50	0	20.20	20.25	20.26			
20	256QAM	50	24	20.04	20.13	20.18	21.5	2	
20	256QAM	50	50	20.17	20.15	20.23			
20	256QAM	100	0	20.03	20.17	20.11			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.12	22.16	22.19			
15	QPSK	1	37	22.04	22.12	22.19			
15	QPSK	1	74	22.04	22.02	22.16	23.5	0	
15	QPSK	36	0	22.11	22.08	22.13			
15	QPSK	36	20	22.18	22.06	22.09	23.5	0	
15	QPSK	36	39	22.07	22.11	22.15			
15	QPSK	75	0	22.04	22.11	22.09			
15	16QAM	1	0	22.07	22.11	22.10			
15	16QAM	1	37	22.06	22.03	22.10			
15	16QAM	1	74	22.10	22.10	22.06	23.5	0	
15	16QAM	36	0	21.91	22.01	22.06			
15	16QAM	36	20	21.99	21.92	22.04	23.5	0	
15	16QAM	36	39	22.03	22.03	22.09			
15	16QAM	75	0	21.93	22.05	21.97			
15	64QAM	1	0	21.85	22.03	21.92			
15	64QAM	1	37	22.03	21.87	22.11			
15	64QAM	1	74	22.04	21.98	22.03	23.5	0	
15	64QAM	36	0	22.05	22.02	22.07			
15	64QAM	36	20	22.04	21.93	22.06	23.5	0	
15	64QAM	36	39	22.06	22.10	22.01			
15	64QAM	75	0	22.00	22.00	22.02			
15	256QAM	1	0	20.17	20.19	20.08			
15	256QAM	1	37	20.01	20.18	20.08	21.5		
15	256QAM	1	74	20.18	20.12	20.21			
15	256QAM	36	0	20.18	20.18	20.15	21.5	2	
15	256QAM	36	20	20.03	20.01	20.11			
15	256QAM	36	39	20.07	20.11	20.16			
15	256QAM	75	0	20.13	20.10	20.16			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.14	22.16	22.16			
10	QPSK	1	25	21.99	22.09	22.08	23.5	0	
10	QPSK	1	49	22.03	22.08	22.16			
10	QPSK	25	0	22.12	22.12	22.11			
10	QPSK	25	12	22.02	22.04	21.97			
10	QPSK	25	25	22.14	22.13	22.08	23.5	0	
10	QPSK	25	37	22.10	22.10	22.11			
10	16QAM	1	0	21.96	22.04	22.02			
10	16QAM	1	25	22.06	21.97	22.11	23.5	0	
10	16QAM	1	49	22.07	22.05	22.03			
10	16QAM	25	0	22.01	22.01	21.98	23.5	0	
10	16QAM	25	12	21.98	21.93	22.04			
10	16QAM	25	25	22.05	22.08	21.97			
10	16QAM	50	0	21.95	22.07	21.99			
10	16QAM	50	12	21.96	21.95	22.00	23.5	0	
10	16QAM	1	25	22.11	21.85	22.00			
10	16QAM	1	49	22.04	22.01	21.85			
10	16QAM	25	0	22.06	22.02	22.01	23.5	0	
10	16QAM	25	12	22.11	21.99	21.86			
10	16QAM	50	0	21.98	22.04	21.98			
10	16QAM	50	12	21.99	21.97	22.04	23.5	0	
10	256QAM	1	25	20.02	20.15	20.01	21.5	2	
10	256QAM	1	49	20.11	20.13	20.08			
10	256QAM	25	0	20.17	20.23	20.23			
10	256QAM	25	12	20.12	20.22	20.16	21.5	2	
10	256QAM	25	25	20.16	20.14	20.20			
10	256QAM	50	0	20.99	20.07	20.09			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.13	22.16	22.17			
5	QPSK	1	12	21.98	22.13	22.17	23.5	0	
5	QPSK	1	24	22.12	22.01	22.17			
5	QPSK	12	0	22.05	22.11	22.10			
5	QPSK	12	12	22.01	22.12	22.16	23.5	0	
5	QPSK	12	13	22.05	22.08	22.14			
5	QPSK	25	0	22.02	22.10	22.05			
5	16QAM	1	0	22.02	22.07	22.06			
5	16QAM	1	12	22.02	22.07	22.12	23.5	0	
5	16QAM	1	24	22.17	22.05	22.06			
5	16QAM	12	0	22.02	22.06	22.14			
5	16QAM	12	12	21.98	22.05	22.05	23.5	0	
5	16QAM	12	13	21.99	22.10	22.01			
5	16QAM	25	0	21.94	22.04	21.96			
5	64QAM	1	0	21.85	21.96	21.92			
5	64QAM	1	12	21.94	21.92	22.02	23.5	0	
5	64QAM	1	24	21.97	22.00	21.83			
5	64QAM	12	0	21.99	22.09	22.11			
5	64QAM	12	12	22.05	21.93	21.95	23.5	0	
5	64QAM	12	13	21.92	22.02	22.02			
5	256QAM	1	0	20.14	20.12	20.02			
5	256QAM	1	12	20.09	20.10	20.06	21.5	2	
5	256QAM	1	24	20.07	20.07	20.05			
5	256QAM	12	0	20.16	20.14	20.23			
5	256QAM	12	7	19.96	20.03	20.13	21.5	2	
5	256QAM	12	13	20.16	20.16	20.16			
5	256QAM	25	0	19.97	20.11	20.08			

PC3 Band 41 Modem B Ant0													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				39750	40173	40620	41068	41490					
Frequency (MHz)				2508.5	2548.3	2593	2637.8	2682.5					
20	QPSK	1	0	22.07	22.13	22.31	22.15	22.11	23.5	0			
20	QPSK	1	49	21.98	22.08	22.21	21.99	22.06					
20	QPSK	1	99	22.11	22.09	22.29	22.10	22.09					
20	QPSK	50	0	22.01	21.99	22.27	22.12	21.97					
20	QPSK	50	24	21.92	21.99	22.24	22.11	21.97					
20	QPSK	50	50	21.89	21.99	22.22	22.00	21.93	23.5	0			
20	QPSK	100	0	21.94	21.96	22.26	22.19	21.98					
20	16QAM	1	0	22.02	22.09	22.19	22.10	21.99					
20	16QAM	1	49	21.93	22.02	22.19	22.07	22.06					
20	16QAM	1	99	21.94	22.01	22.26	22.04	22.07					
20	16QAM	50	0	21.99	21.98	22.12	21.94	21.94	23.5	0			
20	16QAM	50	24	21.91	21.95	21.89	21.92	21.92					
20	16QAM	50	50	21.91	21.98	21.71	21.85	21.84					
20	16QAM	100	0	21.96	21.85	21.76	21.87	21.82					
20	16QAM	1	0	21.90	21.91	21.70	21.88	21.81					
20	16QAM	1	49	21.90	21.63	21.77	21.61	21.62	23	0.5			
20	16QAM	1	99	21.99	21.62	21.84	21.54	21.52					
20	16QAM	50	0	20.55	20.54	20.79	20.57	20.49					
20	16QAM	50	24	20.61	20.58	20.78	20.53	20.54					
20	16QAM	50	50	20.58	20.60	20.68	20.57	20.53					
20	16QAM	100	0	20.51	20.66	20.76	20.61	20.48	20	3.5			
20	256QAM	1	0	18.60	18.52	18.81	18.62	18.49					
20	256QAM	1	49	18.48	18.53	18.71	18.61	18.61					
20	256QAM	1	99	18.55	18.58	18.79	18.55	18.63					
20	256QAM	50	0	18.57	18.60	18.80	18.56	18.54					
20	256QAM	50	24	18.53	18.63	18.79	18.66	18.58	20	3.5			
20	256QAM	50	50	18.55	18.54	18.76	18.52	18.53					
20	256QAM	100	0	18.49	18.64	18.73	18.61	18.57					
Channel				39725	40173	40620	41068	41515					
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5					
15	QPSK	1	0	21.98	22.07	22.27	22.08	22.03	24	0			
15	QPSK	1	37	21.93	21.98	22.07	21.93	21.98					
15	QPSK	1	74	21.98	22.05	22.12	22.08	21.91					
15	QPSK	36	0	21.99	21.86	22.26	22.00	21.95					
15	QPSK	36	20	21.81	21.86	22.22	21.99	21.86					
15	QPSK	36	39	21.88	21.92	22.21	21.93	21.80	23.5	0			
15	QPSK	75	0	21.92	21.94	22.21	21.92	21.89					
15	16QAM	1	0	21.99	21.99	22.12	22.08	21.93					
15	16QAM	1	37	21.86	21.95	22.14	21.87	22.02					
15	16QAM	1	74	21.85	21.98	22.22	21.87	22.01					
15	16QAM	36	0	21.97	21.43	21.65	21.50	21.57	23	0.5			
15	16QAM	36	20	21.48	21.53	21.58	21.49	21.47					
15	16QAM	36	39	21.41	21.60	21.66	21.60	21.60					
15	16QAM	75	0	21.49	21.62	21.69	21.58	21.55					
15	16QAM	75	0	21.45	21.40	21.65	21.82	21.57					
15	16QAM	1	0	21.40	21.56	21.68	21.56	21.61	23	0.5			
15	16QAM	1	37	21.40	21.46	21.72	21.45	21.48					
15	16QAM	36	0	20.43	20.52	20.69	20.48	20.43					
15	16QAM	36	20	20.40	20.53	20.69	20.42	20.43					
15	16QAM	36	39	20.52	20.56	20.66	20.50	20.45					
15	16QAM	75	0	20.43	20.56	20.67	20.56	20.59	22	1.5			
15	256QAM	1	0	18.47	18.50	18.74	18.60	18.46					
15	256QAM	1	37	18.45	18.42	18.62	18.56	18.60					
15	256QAM	1	74	18.44	18.51	18.76	18.46	18.60					
15	256QAM	36	0	18.53	18.48	18.75	18.45	18.50					
15	256QAM	36	20	18.42	18.51	18.67	18.60	18.55	20	3.5			
15	256QAM	36	39	18.46	18.48	18.75	18.50	18.48					
15	256QAM	75	0	18.40	18.60	18.60	18.51	18.49					
Channel				39701	40160	40600	41040	41480					
Frequency (MHz)				2498.5	2543.3	2588	2632.8	2677.5					
10	QPSK	1	0	22.02	22.11	22.21	22.01	21.98	24	0			
10	QPSK	1	25	21.91	21.94	22.16	22.03	21.91					
10	QPSK	1	49	22.01	22.06	22.09	22.01	21.85					
10	QPSK	25	0	21.97	21.93	22.22	22.03	21.85					
10	QPSK	25	12	21.90	21.92	22.16	22.01	21.92					
10	QPSK	25	25	21.86	21.97	22.19	21.97	21.90	23.5	0			
10	QPSK	50	0	21.89	21.94	22.15	21.96	21.93					
10	16QAM	1	0	22.01	22.03	22.18	22.00	21.95					
10	16QAM	1	25	21.85	21.92	22.10	22.01	22.04					
10	16QAM	1	49	21.83	21.98	22.13	21.87	22.00					
10	16QAM	25	0	21.53	21.44	21.66	21.47	21.51	23	0.5			
10	16QAM	25	12	21.41	21.51	21.62	21.47	21.47					
10	16QAM	25	25	21.50	21.52	21.70	21.53	21.57					
10	16QAM	50	0	21.51	21.62	21.71	21.55	21.55					
10	16QAM	1	0	21.39	21.36	21.84	21.59	21.55					
10	16QAM	1	0	21.42	21.58	21.75	21.52	21.56	23	0.5			
10	16QAM	1	49	21.55	21.50	21.79	21.41	21.40					
10	16QAM	25	0	20.43	20.48	20.75	20.48	20.46					
10	16QAM	25	12	20.31	20.56	20.70	20.42	20.52					
10	16QAM	25	25	20.49	20.51	20.61	20.51	20.49					
10	16QAM	50	0	20.39	20.67	20.73	20.56	20.43	20	3.5			
10	256QAM	1	0	18.54	18.39	18.80	18.50	18.39					
10	256QAM	1	25	18.36	18.42	18.65	18.50	18.37					
10	256QAM	1	49	18.49	18.55	18.72	18.44	18.50					
10	256QAM	25	0	18.47	18.54	18.76	18.47	18.49					
10	256QAM	25	12	18.42	18.61	18.78	18.61	18.56	20	3.5			
10	256QAM	25	25	18.49	18.48	18.65	18.36	18.40					
10	256QAM	50	0	18.41	18.57	18.71	18.55	18.48					
Channel				39675	40148	40620	41093	41565					
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5					
5	QPSK	1	0	21.98	22.02	22.17	22.11	21.99	24	0			
5	QPSK	1	12	21.91	21.97	22.11	21.93	21.98					
5	QPSK	1	24	22.04	22.01	22.17	22.07	21.87					
5	QPSK	12	0	21.99	21.95	22.25	22.10	21.85					
5	QPSK	12	7	21.89	21.96	22.16	21.98	21.87					
5	QPSK	12	13	21.87	21.96	22.19	21.90	21.84	23.5	0			
5	QPSK	25	0	21.89	21.95	22.13	21.88	21.87					
5	16QAM	1	0	21.99	22.07	22.15	22.03	21.94					
5	16QAM	1	12	21.89	21.94	22.10	22.06	22.01					
5	16QAM	1	24	21.90	21.98	22.22	22.01	22.01					
5	16QAM	12	0	21.97	21.47	21.64	21.47	21.52	23	0.5			
5	16QAM	12	7	21.45	21.52	21.67	21.43	21.51					
5	16QAM	12	13	21.46	21.55	21.59	21.63	21.61					
5	16QAM	25	0	21.51	21.54	21.69	21.56	21.51					
5	16QAM	1	0	21.44	21.42	21.65	21.61	21.58	23	0.5			
5	16QAM	1	12	21.45	21.46	21.65	21.61	21.58					
5	16QAM	1	24	21.51	21.55	21.79	21.51	21.49					
5	16QAM	12	0	20.46	20.53	20.67	20.54	20.40					
5	16QAM	12	7	20.41	20.56	20.68	20.41	20.46	22	1.5			
5	16QAM	12	13	20.42	20.51	20.67	20.41	20.46					
5	16QAM	25	0	20.43	20.64	20.73	20.48	20.43					
5	256QAM	1	0	18.52	18.47	18.78	18.53	18.43	20			3.5	
5	256QAM	1	12	18.41	18.47	18.56	18.56	18.52					
5	256QAM	1	24	18.56	18.56	18.77	18.49	18.53					
5	256QAM	12	0	18.56	18.60	18.79	18.45	18.42					
5	256QAM	12	7	18.41	18.56	18.69	18.57	18.49					
5	256QAM	12	13	18.46	18.67	18.79	18.49	18.41	20	3.5			
5	256QAM	25	0	18.37	18.51	18.62	18.35	18.46					

Band 2 Modem B Ant2										
BW (MHz)	Modem	RB Size (kHz)	RB Offset (kHz)	Power Low Ch / Freq. (dBm)	Power Middle Ch / Freq. (dBm)	Power High Ch / Freq. (dBm)	Turn-on time (ms)	Turn-off time (ms)	Modem	RB Size (kHz)
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.67	21.72	21.68				
20	QPSK	1	49	21.74	21.68	21.50	23.5	0		
20	QPSK	50	0	21.64	21.59	21.53				
20	QPSK	50	24	21.68	21.62	21.54	23.5	0		
20	QPSK	100	0	21.53	21.58	21.67				
20	16QAM	1	0	21.64	21.68	21.66				
20	16QAM	1	49	21.58	21.58	21.57	23.5	0		
20	16QAM	1	99	21.56	21.70	21.68				
20	16QAM	50	0	21.65	21.64	21.67				
20	16QAM	50	24	21.52	21.66	21.57	23.5	0		
20	16QAM	50	50	21.53	21.71	21.69				
20	16QAM	100	0	21.54	21.58	21.55				
20	16QAM	1	0	21.52	21.56	21.54				
20	16QAM	1	49	21.61	21.52	21.54	23.5	0		
20	16QAM	1	99	21.55	21.58	21.57				
20	16QAM	50	0	20.51	20.70	20.52				
20	16QAM	50	24	20.55	20.57	20.58	22.5	1		
20	16QAM	50	50	20.55	20.55	20.52				
20	16QAM	100	0	20.64	20.50	20.52				
20	16QAM	1	49	19.85	19.75	19.85	20.5	3		
20	256QAM	1	99	18.82	18.71	18.86				
20	256QAM	1	99	18.82	18.71	18.86				
20	256QAM	50	24	18.84	18.82	18.87	20.5	3		
20	256QAM	50	50	18.85	18.89	18.82				
20	256QAM	100	0	18.87	18.87	18.87				
Channel										
Frequency (MHz)										
16	QPSK	1	0	21.57	21.57	21.53				
16	QPSK	1	37	21.58	21.52	21.56	23.5	0		
16	QPSK	1	74	21.54	21.57	21.52				
16	QPSK	36	0	21.62	21.62	21.54				
16	QPSK	36	20	21.61	21.59	21.62	23.5	0		
16	QPSK	36	36	21.62	21.54	21.58				
16	QPSK	75	0	21.57	21.60	21.63				
16	16QAM	1	0	21.61	21.59	21.60				
16	16QAM	1	37	21.56	21.57	21.59	23.5	0		
16	16QAM	1	74	21.58	21.57	21.61				
16	16QAM	36	0	21.65	21.57	21.67				
16	16QAM	36	20	21.53	21.63	21.51	23.5	0		
16	16QAM	36	36	21.58	21.58	21.57				
16	16QAM	75	0	21.58	21.57	21.57				
16	16QAM	1	0	21.52	21.54	21.50				
16	16QAM	1	37	21.52	21.57	21.56	23.5	0		
16	16QAM	1	74	21.53	21.53	21.52				
16	16QAM	36	0	20.53	20.52	20.56				
16	16QAM	36	20	20.52	20.52	20.54	22.5	1		
16	16QAM	36	36	20.51	20.58	20.51				
16	16QAM	75	0	20.55	20.57	20.52				
16	256QAM	1	0	18.82	18.78	18.82				
16	256QAM	1	37	18.95	18.92	18.94	20.5	3		
16	256QAM	1	74	18.88	18.71	18.83				
16	256QAM	36	0	18.92	18.86	18.92				
16	256QAM	36	20	18.95	18.99	18.95	20.5	3		
16	256QAM	36	36	18.86	18.84	18.81				
16	256QAM	75	0	18.83	18.88	18.88				
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.66	21.66	21.61				
20	QPSK	1	25	21.53	21.55	21.53	23.5	0		
20	QPSK	1	49	21.51	21.52	21.59				
20	QPSK	25	0	21.66	21.70	21.56				
20	QPSK	25	12	21.59	21.52	21.56	23.5	0		
20	QPSK	25	25	21.60	21.61	21.51				
20	QPSK	50	0	21.65	21.67	21.59				
20	16QAM	1	0	21.65	21.68	21.58				
20	16QAM	1	25	21.61	21.51	21.52	23.5	0		
20	16QAM	1	49	21.57	21.67	21.59				
20	16QAM	25	0	21.64	21.65	21.59				
20	16QAM	25	12	21.58	21.60	21.59	23.5	0		
20	16QAM	25	25	21.64	21.67	21.58				
20	16QAM	50	0	21.58	21.58	21.55				
20	16QAM	1	0	21.51	21.54	21.58				
20	16QAM	1	25	21.58	21.54	21.52	23.5	0		
20	16QAM	1	49	21.54	21.57	21.54				
20	16QAM	25	0	20.56	20.72	21.54				
20	16QAM	25	12	20.67	20.55	20.57	22.5	1		
20	16QAM	25	25	20.64	20.57	20.58				
20	16QAM	50	0	20.55	20.55	20.59				
20	256QAM	1	0	18.84	18.78	18.87				
20	256QAM	1	25	18.93	18.71	18.88	20.5	3		
20	256QAM	1	49	18.95	18.85	18.95				
20	256QAM	25	0	18.95	18.93	18.95				
20	256QAM	25	12	18.97	18.97	18.93	20.5	3		
20	256QAM	25	25	18.95	18.85	18.86				
20	256QAM	50	0	18.84	18.92	18.92				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.63	21.55	21.55				
3	QPSK	1	6	21.57	21.57	21.51	23.5	0		
3	QPSK	1	14	21.55	21.51	21.53				
3	QPSK	8	0	21.65	21.68	21.58				
3	QPSK	8	4	21.56	21.56	21.65	23.5	0		
3	QPSK	8	7	21.56	21.53	21.53				
3	QPSK	15	0	21.52	21.52	21.60				
3	16QAM	1	0	21.64	21.65	21.61				
3	16QAM	1	8	21.55	21.59	21.54	23.5	0		
3	16QAM	1	14	21.56	21.64	21.67				
3	16QAM	8	0	21.59	21.65	21.68				
3	16QAM	8	4	21.54	21.62	21.57	23.5	0		
3	16QAM	8	7	21.54	21.65	21.57				
3	16QAM	15	0	21.53	21.56	21.58				
3	16QAM	1	0	21.57	21.59	21.59				
3	16QAM	1	8	21.54	21.54	21.53	23.5	0		
3	16QAM	1	14	21.57	21.51	21.53				
3	16QAM	8	0	20.57	20.71	20.53				
3	16QAM	8	4	20.66	20.59	20.53	22.5	1		
3	16QAM	8	7	20.59	20.52	20.53				
3	256QAM	1	0	18.86	18.84	18.84				
3	256QAM	1	8	18.91	18.72	18.88	20.5	3		
3	256QAM	1	14	18.96	18.66	18.96				
3	256QAM	8	0	19.05	18.94	18.95				
3	256QAM	8	4	18.88	18.57	18.99	20.5	3		
3	256QAM	8	7	18.87	18.65	18.65				
3	256QAM	15	0	18.84	18.96	18.91				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.53	21.59	21.59				
1.4	QPSK	1	6	21.57	21.57	21.51	23.5	0		
1.4	QPSK	1	14	21.55	21.51	21.53				
1.4	QPSK	3	0	21.53	21.53	21.55				
1.4	QPSK	3	6	21.53	21.53	21.55				
1.4	QPSK	3	14	21.53	21.58	21.51	23.5	0		
1.4	QPSK	6	0	21.60	21.61	21.58				
1.4	QPSK	6	6	21.59	21.59	21.52	23.5	0		
1.4	QPSK	1	0	21.54	21.61	21.57				
1.4	QPSK	1	6	21.54	21.61	21.52	23.5	0		
1.4	QPSK	1	14	21.56	21.64	21.67				
1.4	QPSK	3	0	21.60	21.61	21.55				
1.4	QPSK	3	6	21.53	21.71	21.65	23.5	0		
1.4	QPSK	3	14	21.57	21.64	21.67				
1.4	QPSK	6	0	21.60	21.61	21.55				
1.4	QPSK	6	6	21.59	21.59	21.52	23.5	0		
1.4	QPSK	1	0	21.54	21.66	21.67				
1.4	QPSK	1	6	21.54	21.66	21.57	23.5	0		
1.4	QPSK	1	14	21.56	21.64	21.67				
1.4	QPSK	3	0	21.60	21.61	21.55				
1.4	QPSK	3	6	21.53	21.71	21.65	23.5	0		
1.4	QPSK	3	14	21.57	21.64	21.67				
1.4	QPSK	6	0	21.60	21.61	21.55				
1.4	QPSK	6	6	21.59	21.59	21.52	23.5	0		
1.4	QPSK	1	0	21.54	21.66	21.67				
1.4	QPSK	1	6	21.54	21.66	21.57	23.5	0		
1.4	QPSK	1	14	21.56	21.64	21.67				
1.4	QPSK	3	0	21.60	21.61	21.55				
1.4	QPSK	3	6	21.53	21.71	21.65	23.5	0		
1.4	QPSK	3	14	21.57	21.64	21.67				
1.4	QPSK	6	0	21.60	21.61	21.55				
1.4	QPSK	6	6	21.59	21.59	21.52	23.5	0		
1.4	QPSK	1	0	21.54	21.66	21.67				
1.4	QPSK	1	6	21.54	21.66	21.57	23.5	0		
1.4	QPSK	1	14	21.56	21.64	21.67				
1.4	QPSK	3	0	21.60	21.61	21.55				
1.4	QPSK	3	6	21.53	21.71	21.65	23.5	0		
1.4	QPSK	3	14	21.57	21.64	21.67				
1.4	QPSK	6	0	21.60	21.61	21.55				
1.4	QPSK	6	6	21.59	21.59	21.52	23.5	0		
1.4	QPSK	1	0	21.54	21.66	21.67				
1.4	QPSK	1	6	21.54	21.66	21.				

Band 25 Modem B Ant2									
BW (MHz)	Modem Ant	RB Start	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-on time (sec)	APRS (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.27	22.41	22.59			
20	QPSK	1	48	22.18	22.33	22.62	23.5	0	
20	QPSK	1	96	22.22	22.38	22.62			
20	QPSK	50	0	22.22	22.38	22.62			
20	QPSK	50	24	22.30	22.37	22.21	23.5	0	
20	QPSK	50	50	22.28	22.34	22.15			
20	QPSK	100	0	22.20	22.37	22.59			
20	HQAM	1	0	22.29	22.33	22.15			
20	HQAM	1	48	22.20	22.36	22.14	23.5	0	
20	HQAM	1	96	22.28	22.34	22.18			
20	HQAM	50	0	22.22	22.35	22.14			
20	HQAM	50	24	22.29	22.36	22.15	23.5	0	
20	HQAM	50	50	22.24	22.35	22.28			
20	HQAM	100	0	22.28	22.31	22.12			
20	HQAM	1	0	22.24	22.40	22.24			
20	HQAM	1	48	22.20	22.46	22.14	23.5	0	
20	HQAM	1	96	22.28	22.34	22.20			
20	HQAM	50	0	21.22	21.43	21.17			
20	HQAM	50	24	21.32	21.36	21.27	23.5	1	
20	HQAM	50	50	21.27	21.38	21.14			
20	HQAM	100	0	21.38	21.46	21.21			
20	SSQAM	1	0	19.42	19.46	19.11			
20	SSQAM	1	48	19.34	19.45	19.15	20.5	3	
20	SSQAM	1	96	19.34	19.47	19.28			
20	SSQAM	50	0	19.23	19.43	19.19			
20	SSQAM	50	24	19.19	19.43	19.27	20.5	3	
20	SSQAM	50	50	19.28	19.47	19.20			
20	SSQAM	100	0	19.21	19.44	19.25			
Channel									
Frequency (MHz)									
16	QPSK	1	0	19.07	19.80	19.07			
16	QPSK	1	37	19.18	19.30	19.15			
16	QPSK	1	74	19.21	19.33	19.18	23.5	0	
16	QPSK	36	0	22.18	22.32	22.17			
16	QPSK	36	20	22.21	22.33	22.08	23.5	0	
16	QPSK	36	36	22.21	22.32	22.11			
16	HQAM	1	0	22.08	22.32	22.18			
16	HQAM	1	0	22.24	22.33	22.08	23.5	0	
16	HQAM	1	37	22.11	22.28	22.04			
16	HQAM	1	74	22.20	22.32	22.11			
16	HQAM	36	0	22.13	22.32	22.08			
16	HQAM	36	20	22.21	22.23	22.05	23.5	0	
16	HQAM	36	36	22.23	22.28	22.02			
16	HQAM	75	0	22.17	22.27	22.16			
16	HQAM	1	0	22.16	22.28	22.02	23.5	0	
16	HQAM	1	74	22.15	22.25	22.12			
16	HQAM	36	0	21.19	21.31	21.04			
16	HQAM	36	20	21.26	21.32	21.23	22.5	1	
16	HQAM	36	36	21.20	21.25	21.11			
16	HQAM	75	0	21.24	21.36	21.15			
16	SSQAM	1	0	19.31	19.43	19.05			
16	SSQAM	1	37	19.23	19.34	19.11	20.5	3	
16	SSQAM	1	74	19.21	19.37	19.19			
16	SSQAM	36	0	19.13	19.38	19.12			
16	SSQAM	36	20	19.11	19.39	19.19	20.5	3	
16	SSQAM	36	36	19.21	19.34	19.14			
16	SSQAM	75	0	19.13	19.42	19.16			
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.05	19.80	19.10			
10	QPSK	1	25	22.15	22.24	21.84	23.5	0	
10	QPSK	1	48	22.06	22.25	21.81			
10	QPSK	25	0	22.17	22.26	22.16			
10	QPSK	25	12	22.21	22.31	22.19	23.5	0	
10	QPSK	25	25	22.20	22.27	22.10			
10	HQAM	1	0	22.27	22.24	22.04			
10	HQAM	1	25	22.15	22.24	22.04	23.5	0	
10	HQAM	1	48	22.20	22.23	22.11			
10	HQAM	25	0	22.10	22.23	22.11			
10	HQAM	25	12	22.23	22.25	22.04	23.5	0	
10	HQAM	25	25	22.23	22.23	22.04			
10	HQAM	50	0	22.15	22.24	22.10			
10	HQAM	1	0	22.21	22.28	22.22	23.5	0	
10	HQAM	1	25	22.16	22.23	22.10			
10	HQAM	1	48	22.21	22.23	22.16			
10	HQAM	25	0	21.14	21.40	21.13			
10	HQAM	25	12	21.23	21.33	21.19	22.5	1	
10	HQAM	25	25	21.26	21.35	21.12			
10	HQAM	50	0	21.24	21.42	21.11			
10	SSQAM	1	0	19.12	19.33	19.03			
10	SSQAM	1	25	19.26	19.31	19.12	20.5	3	
10	SSQAM	1	48	19.23	19.35	19.20			
10	SSQAM	25	0	19.11	19.35	19.08			
10	SSQAM	25	12	19.14	19.37	19.15	20.5	3	
10	SSQAM	25	25	19.20	19.40	19.16			
10	SSQAM	50	0	19.20	19.37	19.20			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.15	22.30	22.22			
5	QPSK	1	12	22.17	22.29	22.23	23.5	0	
5	QPSK	1	24	22.22	22.29	22.24			
5	QPSK	12	0	22.18	22.34	22.30			
5	QPSK	12	7	22.26	22.33	22.13	23.5	0	
5	QPSK	12	13	22.16	22.24	22.13			
5	QPSK	25	0	22.08	22.25	22.08			
5	HQAM	1	0	22.26	22.31	22.07			
5	HQAM	1	12	22.15	22.33	22.05	23.5	0	
5	HQAM	1	24	22.13	22.32	22.16			
5	HQAM	12	0	22.20	22.27	22.15			
5	HQAM	12	7	22.16	22.35	22.08	23.5	0	
5	HQAM	12	13	22.23	22.31	22.16			
5	HQAM	25	0	22.22	22.28	22.02			
5	HQAM	1	0	22.13	22.33	22.12	23.5	0	
5	HQAM	1	12	22.13	22.35	22.06			
5	HQAM	1	24	22.19	22.32	22.15			
5	HQAM	12	0	21.20	21.40	21.12			
5	HQAM	12	7	21.20	21.31	21.20	22.5	1	
5	HQAM	12	13	21.24	21.27	21.08			
5	HQAM	25	0	21.26	21.46	21.10			
5	SSQAM	1	0	19.15	19.44	19.08			
5	SSQAM	1	12	19.32	19.32	19.13	20.5	3	
5	SSQAM	1	24	19.22	19.43	19.24			
5	SSQAM	12	0	19.20	19.40	19.08			
5	SSQAM	12	7	19.19	19.42	19.17	20.5	3	
5	SSQAM	12	13	19.22	19.45	19.15			
5	SSQAM	25	0	19.11	19.39	19.16			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.18	22.25	22.17			
3	QPSK	1	8	22.04	22.23	21.97	23.5	0	
3	QPSK	1	14	22.15	22.26	21.93			
3	QPSK	8	0	22.21	22.25	22.14			
3	QPSK	8	4	22.26	22.34	22.11	23.5	0	
3	QPSK	8	7	22.18	22.31	22.07			
3	QPSK	15	0	22.18	22.31	22.15			
3	HQAM	1	0	22.16	22.29	22.14			
3	HQAM	1	8	22.18	22.34	22.02	23.5	0	
3	HQAM	1	14	22.14	22.34	22.11			
3	HQAM	8	0	22.17	22.29	22.05			
3	HQAM	8	4	22.19	22.31	22.12	23.5	0	
3	HQAM	8	7	22.16	22.32	22.19			
3	HQAM	15	0	22.25	22.22	22.07			
3	HQAM	1	0	22.11	22.31	22.19	23.5	0	
3	HQAM	1	8	22.10	22.38	22.09			
3	HQAM	1	14	22.17	22.31	22.18			
3	HQAM	8	0	21.19	21.38	21.13			
3	HQAM	8	4	21.28	21.38	21.14	22.5	1	
3	HQAM	8	7	21.23	21.30	21.13			
3	HQAM	15	0	21.24	21.35	21.11			
3	SSQAM	1	0	19.12	19.35	19.10			
3	SSQAM	1	8	19.31	19.32	19.09	20.5	3	
3	SSQAM	1	14	19.22	19.41	19.23			
3	SSQAM	8	0	19.22	19.41	19.11			
3	SSQAM	8	4	19.13	19.38	19.24	20.5	3	
3	SSQAM	8	7	19.26	19.44	19.17			
3	SSQAM	15	0	19.14	19.33	19.19			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	19.07	19.80	19.13			
1.4	QPSK	1	0	22.21	22.35	22.04			
1.4	QPSK	1	3	22.13	22.34	22.14	23.5	0	
1.4	QPSK	1	5	22.09	22.36	22.17			
1.4	QPSK	3	0	22.19	22.32	22.15			
1.4	QPSK	3	1	22.13	22.29	22.14			
1.4	QPSK	6	0	22.15	22.26	22.12	23.5	0	
1.4	QPSK	6	0	22.17	22.28	22.10			
1.4	HQAM	1		22.27	22.32	22.04			
1.4	HQAM	1	3	22.17	22.32	22.10			
1.4	HQAM	1	5	22.09	22.29	22.10	23.5	0	
1.4	HQAM	3		22.25	22.29	22.10			
1.4	HQAM	3	1	22.19	22.31	22.12			
1.4	HQAM	6	0	22.26	22.25	22.12	23.5	0	
1.4	HQAM	6	0	22.28	22.28	22.12			
1.4	HQAM	6	0	22.29	22.33	22.08			
1.4	HQAM	3		22.16	22.23	22.11			
1.4	HQAM	3	1	22.17	22.31	22.14	23.5	0	
1.4	HQAM	6		22.18	22.33	22.16			
1.4	HQAM	6	0	22.20	22.34	22.19			
1.4	HQAM	6	0	22.23	22.38	22.19			
1.4	HQAM	3		21.13	21.39	21.10	22.5	1	
1.4	SSQAM	1		19.17	19.37	19.12			
1.4									

PC3 Band 42 Modem B Ant2									
BW (MHz)	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	21.87	21.77	21.76	23.5	0	
20	QPSK	1	49	21.78	21.60	21.64			
20	QPSK	1	99	21.84	21.59	21.63			
20	QPSK	50	0	21.84	21.63	21.71	23.5	0	
20	QPSK	50	24	21.78	21.74	21.65			
20	QPSK	50	50	21.78	21.76	21.72			
20	QPSK	100	0	21.77	21.73	21.71	23.5	0	
20	16QAM	1	0	21.77	21.76	21.69			
20	16QAM	1	49	21.82	21.62	21.64			
20	16QAM	1	99	21.80	21.64	21.67	23	0	
20	16QAM	50	0	21.31	21.21	21.26			
20	16QAM	50	24	21.39	21.30	21.26			
20	16QAM	50	50	21.25	21.24	21.23	23	0.5	
20	16QAM	100	0	21.25	21.15	21.15			
20	16QAM	100	0	21.34	21.28	21.17			
20	64QAM	1	49	21.36	21.20	21.17	23	0.5	
20	64QAM	1	99	21.34	21.22	21.22			
20	64QAM	50	0	20.36	20.22	20.23			
20	64QAM	50	24	20.35	20.23	20.14	22	1.5	
20	64QAM	50	50	20.35	20.17	20.22			
20	64QAM	100	0	20.37	20.22	20.13			
20	256QAM	1	0	18.42	18.47	18.39	20	3.5	
20	256QAM	1	49	18.42	18.43	18.40			
20	256QAM	1	99	18.39	18.51	18.36			
20	256QAM	50	0	18.44	18.45	18.30	20	3.5	
20	256QAM	50	24	18.34	18.40	18.29			
20	256QAM	50	50	18.37	18.51	18.36			
20	256QAM	100	0	18.42	18.40	18.31	Tune-up limit (dBm)	MPR (dB)	
Channel				42165	42590	43015			
Frequency (MHz)				3467.5	3500	3542.5			
15	QPSK	1	0	21.79	21.68	21.59	23.5	0	
15	QPSK	1	37	21.63	21.50	21.46			
15	QPSK	1	74	21.70	21.55	21.57			
15	QPSK	36	0	21.80	21.59	21.59	23.5	0	
15	QPSK	36	20	21.67	21.68	21.61			
15	QPSK	36	39	21.70	21.66	21.70			
15	QPSK	75	0	21.68	21.62	21.67	23.5	0	
15	16QAM	1	0	21.75	21.68	21.56			
15	16QAM	1	37	21.70	21.58	21.56			
15	16QAM	1	74	21.67	21.55	21.59	23.5	0	
15	16QAM	36	0	21.25	21.12	21.16			
15	16QAM	36	20	21.36	21.26	21.15			
15	16QAM	36	39	21.15	21.18	21.12	23	0.5	
15	16QAM	75	0	21.24	21.05	21.03			
15	64QAM	1	0	21.30	21.18	21.13			
15	64QAM	1	37	21.35	21.18	21.16	23	0.5	
15	64QAM	1	74	21.27	21.12	21.11			
15	64QAM	36	0	20.30	20.13	20.11			
15	64QAM	36	20	20.23	20.11	20.09	22	1.5	
15	64QAM	36	39	20.32	20.04	20.11			
15	64QAM	75	0	20.35	20.11	20.00			
15	256QAM	1	0	18.39	18.40	18.36	20	3.5	
15	256QAM	1	37	18.31	18.31	18.28			
15	256QAM	1	74	18.34	18.39	18.34			
15	256QAM	36	0	18.38	18.36	18.24	20	3.5	
15	256QAM	36	20	18.29	18.36	18.16			
15	256QAM	36	39	18.30	18.39	18.34			
15	256QAM	75	0	18.39	18.27	18.20	Tune-up limit (dBm)	MPR (dB)	
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	21.84	21.71	21.62	23.5	0	
10	QPSK	1	25	21.67	21.57	21.50			
10	QPSK	1	49	21.70	21.49	21.61			
10	QPSK	25	0	21.82	21.58	21.59	23.5	0	
10	QPSK	25	12	21.66	21.71	21.56			
10	QPSK	25	25	21.74	21.66	21.60			
10	QPSK	50	0	21.66	21.65	21.60	23.5	0	
10	16QAM	1	0	21.66	21.67	21.58			
10	16QAM	1	25	21.78	21.57	21.54			
10	16QAM	1	49	21.79	21.57	21.61	23.5	0	
10	16QAM	25	0	21.28	21.17	21.17			
10	16QAM	25	12	21.33	21.25	21.19			
10	16QAM	25	25	21.23	21.15	21.20	23	0.5	
10	16QAM	50	0	21.24	21.10	21.11			
10	64QAM	1	0	21.26	21.20	21.08			
10	64QAM	1	25	21.31	21.08	21.08	23	0.5	
10	64QAM	1	49	21.22	21.12	21.14			
10	64QAM	25	0	20.32	20.16	20.11			
10	64QAM	25	12	20.30	20.13	20.06	22	1.5	
10	64QAM	25	25	20.26	20.09	20.09			
10	64QAM	50	0	20.35	20.20	20.02			
10	256QAM	1	0	18.33	18.42	18.33	20	3.5	
10	256QAM	1	25	18.36	18.35	18.31			
10	256QAM	1	49	18.31	18.39	18.30			
10	256QAM	25	0	18.34	18.34	18.24	20	3.5	
10	256QAM	25	12	18.25	18.36	18.15			
10	256QAM	25	25	18.26	18.41	18.27			
10	256QAM	50	0	18.40	18.31	18.28	Tune-up limit (dBm)	MPR (dB)	
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	21.70	21.69	21.59	23.5	0	
5	QPSK	1	12	21.63	21.42	21.57			
5	QPSK	1	24	21.66	21.55	21.48			
5	QPSK	12	0	21.82	21.53	21.58	23.5	0	
5	QPSK	12	7	21.70	21.67	21.55			
5	QPSK	12	13	21.69	21.70	21.70			
5	QPSK	25	0	21.70	21.71	21.67	23.5	0	
5	16QAM	1	0	21.69	21.69	21.64			
5	16QAM	1	12	21.73	21.58	21.57			
5	16QAM	1	24	21.72	21.63	21.59	23.5	0	
5	16QAM	12	0	21.28	21.18	21.14			
5	16QAM	12	7	21.29	21.21	21.14			
5	16QAM	12	13	21.24	21.17	21.11	23	0.5	
5	16QAM	25	0	21.12	21.11	21.04			
5	64QAM	1	0	21.26	21.26	21.11			
5	64QAM	1	12	21.34	21.09	21.13	23	0.5	
5	64QAM	1	24	21.27	21.14	21.17			
5	64QAM	12	0	20.31	20.20	20.20			
5	64QAM	12	7	20.27	20.15	20.03	22	1.5	
5	64QAM	12	13	20.28	20.05	20.18			
5	64QAM	25	0	20.35	20.18	20.02			
5	256QAM	1	0	18.30	18.37	18.37	20	3.5	
5	256QAM	1	12	18.30	18.32	18.35			
5	256QAM	1	24	18.29	18.39	18.32			
5	256QAM	12	0	18.33	18.41	18.21	20	3.5	
5	256QAM	12	7	18.26	18.35	18.26			
5	256QAM	12	13	18.32	18.40	18.27			
5	256QAM	25	0	18.29	18.30	18.29			

PC2 Band 42 Modem B Ant2											
BW (MHz)	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				42190	42590	42990					
Frequency (MHz)				3460	3500	3540					
20	QPSK	1	0	21.67	21.77	21.76		23.5	0		
20	QPSK	1	49	21.78	21.60	21.64					
20	QPSK	1	99	21.84	21.59	21.63					
20	QPSK	50	50	21.76	21.65	21.67					
20	QPSK	50	50	21.78	21.74	21.75		23.5	0		
20	QPSK	50	24	21.76	21.76	21.72					
20	QPSK	100	0	21.77	21.73	21.75					
20	16QAM	1	0	21.77	21.76	21.89					
20	16QAM	1	49	21.82	21.62	21.64		23.5	0		
20	16QAM	1	99	21.83	21.61	21.65					
20	16QAM	50	0	21.82	21.60	21.68					
20	16QAM	50	24	21.67	21.71	21.70					
20	16QAM	50	50	21.75	21.70	21.62		23.5	0		
20	16QAM	100	0	21.72	21.63	21.62					
20	16QAM	100	50	21.68	21.67	21.66					
20	16QAM	1	49	21.71	21.58	21.62					
20	16QAM	1	99	21.75	21.58	21.60		23.5	0		
20	16QAM	50	0	21.77	21.61	21.60					
20	16QAM	50	24	21.68	21.67	21.59					
20	16QAM	50	50	21.60	21.62	21.61					
20	16QAM	100	0	21.73	21.65	21.68		23.5	0		
20	256QAM	1	0	19.91	19.81	19.72					
20	256QAM	1	49	19.83	19.62	19.68				21.5	2
20	256QAM	1	99	19.90	19.58	19.58					
20	256QAM	50	50	21.80	21.54	21.57					
20	256QAM	50	24	19.82	19.57	19.62					
20	256QAM	50	50	19.89	19.56	19.62		21.5	2		
20	256QAM	100	0	19.76	19.66	19.69					
Channel				42165	42590	43015	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				3467.5	3500	3542.5					
15	QPSK	1	0	21.74	21.66	21.64		23.5	0		
15	QPSK	1	37	21.85	21.48	21.59					
15	QPSK	1	74	21.81	21.52	21.53					
15	QPSK	36	20	21.80	21.54	21.57					
15	QPSK	36	20	21.73	21.73	21.57		23.5	0		
15	QPSK	36	39	21.71	21.74	21.70					
15	QPSK	75	0	21.76	21.66	21.63					
15	16QAM	1	0	21.76	21.69	21.59					
15	16QAM	1	37	21.80	21.57	21.61		23.5	0		
15	16QAM	1	74	21.75	21.57	21.61					
15	16QAM	36	0	21.77	21.63	21.57					
15	16QAM	36	20	21.63	21.60	21.49					
15	16QAM	36	39	21.67	21.62	21.57		23.5	0		
15	16QAM	75	0	21.76	21.67	21.61					
15	16QAM	0	0	21.60	21.59	21.61					
15	16QAM	1	37	21.62	21.55	21.50					
15	16QAM	1	74	21.69	21.46	21.51		23.5	0		
15	16QAM	36	0	21.65	21.58	21.52					
15	16QAM	36	20	21.65	21.56	21.57					
15	16QAM	36	39	21.68	21.60	21.60					
15	16QAM	75	0	21.68	21.56	21.61		23.5	0		
15	256QAM	1	0	19.83	19.75	19.64					
15	256QAM	1	37	19.70	19.59	19.59				21.5	2
15	256QAM	1	74	19.83	19.45	19.47					
15	256QAM	36	20	19.79	19.44	19.57					
15	256QAM	36	39	19.80	19.49	19.60		21.5	2		
15	256QAM	75	0	19.89	19.62	19.68					
Channel				42140	42590	43040	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				3456	3500	3545					
10	QPSK	1	0	21.66	21.67	21.65		23.5	0		
10	QPSK	1	25	21.76	21.59	21.57					
10	QPSK	1	49	21.82	21.57	21.52					
10	QPSK	25	12	21.81	21.50	21.60					
10	QPSK	25	12	21.66	21.72	21.62		23.5	0		
10	QPSK	25	25	21.66	21.64	21.67					
10	QPSK	0	0	21.67	21.62	21.63					
10	16QAM	1	0	21.67	21.74	21.62					
10	16QAM	1	25	21.73	21.60	21.54		23.5	0		
10	16QAM	1	49	21.79	21.54	21.56					
10	16QAM	25	0	21.76	21.50	21.57					
10	16QAM	25	25	21.76	21.70	21.67					
10	16QAM	36	25	21.67	21.67	21.60		23.5	0		
10	16QAM	50	0	21.68	21.83	21.81					
10	16QAM	1	0	21.61	21.65	21.65					
10	16QAM	1	25	21.67	21.54	21.57					
10	16QAM	1	49	21.74	21.59	21.48		23.5	0		
10	16QAM	25	0	21.70	21.52	21.52					
10	16QAM	25	12	21.58	21.61	21.48					
10	16QAM	25	25	21.63	21.64	21.70					
10	16QAM	50	0	21.69	21.80	21.58		23.5	0		
10	256QAM	1	0	19.53	19.73	19.67					
10	256QAM	1	25	19.57	19.55	19.57				21.5	2
10	256QAM	1	49	19.78	19.56	19.53					
10	256QAM	25	0	19.76	19.68	19.65					
10	256QAM	25	12	19.73	19.55	19.59		21.5	2		
10	256QAM	25	25	19.82	19.46	19.55					
10	256QAM	50	0	19.75	19.56	19.56					
Channel				42115	42590	43055	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				3437.5	3500	3577.5					
5	QPSK	1	0	21.74	21.74	21.74		23.5	0		
5	QPSK	1	24	21.73	21.53	21.51					
5	QPSK	12	0	21.75	21.50	21.60					
5	QPSK	12	7	21.66	21.71	21.63					
5	QPSK	12	13	21.73	21.62	21.63		23.5	0		
5	QPSK	25	0	21.73	21.68	21.64					
5	16QAM	1	0	21.65	21.66	21.83					
5	16QAM	1	12	21.77	21.50	21.56					
5	16QAM	1	24	21.73	21.56	21.60		23.5	0		
5	16QAM	12	0	21.61	21.54	21.58					
5	16QAM	12	7	21.61	21.68	21.47					
5	16QAM	12	13	21.62	21.63	21.58				23.5	0
5	16QAM	25	0	21.59	21.59	21.56					
5	16QAM	1	0	21.58	21.58	21.60					
5	16QAM	1	12	21.66	21.47	21.52		23.5	0		
5	16QAM	12	0	21.67	21.54	21.57					
5	16QAM	12	0	21.69	21.56	21.49					
5	16QAM	12	7	21.62	21.62	21.62				23.5	0
5	16QAM	12	13	21.66	21.61	21.64					
5	16QAM	25	0	21.65	21.63	21.63					
5	256QAM	1	0	19.73	19.72	19.72		21.5	2		
5	256QAM	1	12	19.75	19.51	19.66					
5	256QAM	1	24	19.81	19.50	19.51					
5	256QAM	12	0	19.78	19.68	19.63				21.5	2
5	256QAM	12	7	19.77	19.54	19.57					
5	256QAM	12	13	19.86	19.57	19.61					
5	256QAM	25	0	19.69	19.56	19.63					

Band 48 Modem B Ant2														
BW [MHz]	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)					
Channel				55340	55830	56150	56640							
Frequency (MHz)				3560	3609	3641	3690							
20	QPSK	1	0	14.91	14.93	14.85	14.84	16.5	0					
20	QPSK	1	49	14.78	14.88	14.79	14.72							
20	QPSK	1	99	14.85	14.76	14.67	14.81							
20	QPSK	50	0	14.84	14.85	14.78	14.80							
20	QPSK	50	24	14.69	14.84	14.71	14.65	16.5	0					
20	QPSK	50	50	14.75	14.66	14.59	14.71							
20	QPSK	100	0	14.85	14.87	14.78	14.80							
20	16QAM	1	0	14.74	14.81	14.70	14.63							
20	16QAM	1	49	14.79	14.88	14.59	14.70	16.5	0					
20	16QAM	1	99	14.85	14.82	14.76	14.74							
20	16QAM	50	0	14.68	14.78	14.71	14.64							
20	16QAM	50	24	14.76	14.71	14.58	14.75							
20	16QAM	50	50	14.81	14.84	14.79	14.78	16.5	0					
20	16QAM	100	0	14.69	14.79	14.75	14.65							
20	64QAM	1	0	14.76	14.70	14.60	14.75							
20	64QAM	1	49	14.87	14.88	14.81	14.74	16.5	0					
20	64QAM	1	99	14.69	14.83	14.68	14.66							
20	64QAM	50	0	14.79	14.69	14.60	14.72							
20	64QAM	50	24	14.83	14.87	14.74	14.75							
20	64QAM	50	50	14.75	14.79	14.71	14.65	16.5	0					
20	64QAM	100	0	14.77	14.68	14.63	14.78							
20	256QAM	1	0	14.45	14.46	14.39	14.41							
20	256QAM	1	49	14.32	14.45	14.30	14.23	16.5	0					
20	256QAM	1	99	14.37	14.27	14.17	14.38							
20	256QAM	50	0	14.43	14.42	14.41	14.38							
20	256QAM	50	24	14.41	14.44	14.39	14.39							
20	256QAM	50	50	14.34	14.43	14.28	14.22	16.5	0					
20	256QAM	100	0	14.36	14.27	14.21	14.38							
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)					
Frequency (MHz)				3557.5	3608	3642	3692.5							
15	QPSK	1	0	14.88	14.88	14.78	14.74	16.5	0					
15	QPSK	1	37	14.72	14.83	14.75	14.63							
15	QPSK	1	74	14.75	14.63	14.56	14.76							
15	QPSK	36	0	14.81	14.72	14.73	14.70							
15	QPSK	36	20	14.65	14.78	14.62	14.61	16.5	0					
15	QPSK	36	39	14.64	14.54	14.49	14.64							
15	QPSK	75	0	14.72	14.77	14.75	14.72							
15	16QAM	1	0	14.69	14.78	14.63	14.55							
15	16QAM	1	37	14.74	14.59	14.52	14.66	16.5	0					
15	16QAM	1	74	14.72	14.76	14.67	14.64							
15	16QAM	36	0	14.62	14.75	14.68	14.55							
15	16QAM	36	20	14.68	14.62	14.51	14.64							
15	16QAM	36	39	14.74	14.73	14.68	14.67	16.5	0					
15	16QAM	75	0	14.58	14.75	14.65	14.56							
15	64QAM	1	0	14.71	14.58	14.50	14.66							
15	64QAM	1	37	14.80	14.76	14.72	14.66	16.5	0					
15	64QAM	1	74	14.66	14.77	14.62	14.62							
15	64QAM	36	0	14.67	14.65	14.48	14.63							
15	64QAM	36	20	14.72	14.77	14.68	14.66							
15	64QAM	36	39	14.69	14.75	14.58	14.59	16.5	0					
15	64QAM	75	0	14.64	14.58	14.55	14.73							
15	256QAM	1	0	14.36	14.33	14.26	14.29							
15	256QAM	1	37	14.21	14.36	14.19	14.18	16.5	0					
15	256QAM	1	74	14.33	14.15	14.09	14.35							
15	256QAM	36	0	14.38	14.32	14.36	14.32							
15	256QAM	36	20	14.30	14.35	14.28	14.34							
15	256QAM	36	39	14.28	14.36	14.23	14.10	16.5	0					
15	256QAM	75	0	14.23	14.21	14.14	14.34							
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)					
Frequency (MHz)				3555	3607.5	3642.5	3695							
10	QPSK	1	0	14.86	14.84	14.75	14.78	16.5	0					
10	QPSK	1	25	14.70	14.83	14.70	14.61							
10	QPSK	1	49	14.75	14.65	14.57	14.76							
10	QPSK	25	0	14.81	14.79	14.73	14.76							
10	QPSK	25	12	14.66	14.80	14.66	14.54	16.5	0					
10	QPSK	25	25	14.69	14.59	14.54	14.58							
10	QPSK	50	0	14.79	14.75	14.73	14.74							
10	16QAM	1	0	14.71	14.70	14.57	14.57							
10	16QAM	1	25	14.73	14.62	14.52	14.66	16.5	0					
10	16QAM	1	49	14.74	14.79	14.66	14.65							
10	16QAM	25	0	14.56	14.75	14.65	14.54							
10	16QAM	25	12	14.71	14.62	14.48	14.71							
10	16QAM	25	25	14.77	14.77	14.74	14.72	16.5	0					
10	16QAM	50	0	14.57	14.72	14.69	14.55							
10	64QAM	1	0	14.67	14.59	14.54	14.64							
10	64QAM	1	25	14.80	14.76	14.74	14.61							
10	64QAM	1	49	14.66	14.73	14.58	14.60	16.5	0					
10	64QAM	25	0	14.75	14.64	14.53	14.61							
10	64QAM	25	12	14.78	14.82	14.63	14.71							
10	64QAM	25	25	14.69	14.75	14.66	14.61							
10	64QAM	50	0	14.70	14.63	14.60	14.74	16.5	0					
10	256QAM	1	0	14.36	14.40	14.28	14.29							
10	256QAM	1	25	14.26	14.37	14.20	14.19							
10	256QAM	1	49	14.28	14.23	14.07	14.28							
10	256QAM	25	0	14.40	14.31	14.28	14.31	16.5	0					
10	256QAM	25	12	14.34	14.33	14.36	14.29							
10	256QAM	25	25	14.22	14.33	14.20	14.11							
10	256QAM	50	0	14.24	14.18	14.16	14.28							
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)					
Frequency (MHz)				3525.5	3607	3643	3697.5							
5	QPSK	1	0	14.84	14.86	14.75	14.77	16.5	0					
5	QPSK	1	12	14.67	14.78	14.72	14.63							
5	QPSK	1	24	14.73	14.68	14.60	14.76							
5	QPSK	12	0	14.76	14.72	14.70	14.70							
5	QPSK	12	7	14.61	14.77	14.59	14.53	16.5	0					
5	QPSK	12	13	14.71	14.57	14.52	14.65							
5	QPSK	25	0	14.81	14.83	14.74	14.70							
5	16QAM	1	0	14.65	14.77	14.59	14.55							
5	16QAM	1	12	14.70	14.64	14.46	14.58	16.5	0					
5	16QAM	1	24	14.76	14.69	14.70	14.68							
5	16QAM	12	0	14.57	14.67	14.68	14.60							
5	16QAM	12	7	14.70	14.65	14.54	14.70							
5	16QAM	12	13	14.77	14.71	14.73	14.70	16.5	0					
5	16QAM	25	0	14.59	14.73	14.69	14.56							
5	16QAM	25	12	14.83	14.62	14.51	14.64							
5	16QAM	25	24	14.65	14.71	14.54	14.58							
5	64QAM	1	0	14.69	14.61	14.54	14.60	16.5	0					
5	64QAM	12	7	14.77	14.82	14.62	14.68							
5	64QAM	12	13	14.63	14.70	14.58	14.60							
5	64QAM	25	0	14.65	14.56	14.58	14.67							
5	256QAM	1	0	14.36	14.36	14.36	14.35	16.5	0					
5	256QAM	1	12	14.29	14.34	14.24	14.16							
5	256QAM	1	24	14.30	14.16	14.12	14.29							
5	256QAM	12	0	14.40	14.32	14.29	14.25							
5	256QAM	12	7	14.36	14.36	14.29	14.27	16.5	0					
5	256QAM	12	13	14.24	14.33	14.23	14.14							
5	256QAM	25	0	14.30	14.24	14.15	14.28							

Band	WCDMA II Modem C Ant0				WCDMA IV Modem C Ant0				WCDMA V Modem C Ant0				
	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V				
	Rx Channel	9262	9400		9538	1312	1413		1513	4132	4182	4233	
	Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
	Frequency (MHz)	1852.4	1860	1867.6		1742.4	1752.4	1762.4		1864.4	1874.4	1884.4	
3GPP Rel 99	RMC 12.2Kbps	23.03	23.17	23.11	24.50	19.18	19.21	19.17	20.50	23.54	23.61	23.60	24.50
3GPP Rel 6	HSUPA Subtest-1	22.25	22.12	22.08	23.50	18.15	18.24	18.10	19.50	22.52	22.69	22.72	23.50
3GPP Rel 6	HSUPA Subtest-2	22.16	22.27	22.14	23.50	18.18	18.16	18.06	19.50	22.52	22.63	22.77	23.50
3GPP Rel 6	HSUPA Subtest-3	21.71	21.61	21.69	23.00	17.75	17.75	17.78	19.00	22.67	22.19	22.27	23.00
3GPP Rel 6	HSUPA Subtest-4	21.66	21.61	21.70	23.00	17.76	17.70	17.73	19.00	22.13	22.18	22.13	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.22	22.16	22.20	23.50	18.17	18.17	18.11	19.50	22.62	22.60	22.70	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.10	22.09	22.05	23.50	18.25	18.09	18.20	19.50	22.64	22.76	22.82	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.62	21.72	21.73	23.00	17.64	17.67	17.67	19.00	22.10	22.12	22.13	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.67	21.60	21.76	23.00	17.71	17.61	17.78	19.00	22.06	22.28	22.17	23.00
3GPP Rel 6	HSUPA Subtest-1	22.11	22.24	22.28	23.50	18.14	18.32	18.09	19.50	22.57	22.76	22.70	23.50
3GPP Rel 6	HSUPA Subtest-2	20.22	20.26	20.09	21.50	16.13	16.12	16.23	17.50	20.48	20.67	20.81	21.50
3GPP Rel 6	HSUPA Subtest-3	21.29	21.25	21.18	22.50	17.35	17.36	17.14	18.50	21.51	21.63	21.68	22.50
3GPP Rel 6	HSUPA Subtest-4	20.17	20.19	20.06	21.50	16.24	16.12	16.16	17.50	20.50	20.76	20.67	21.50
3GPP Rel 6	HSUPA Subtest-5	22.19	22.18	22.25	23.50	18.22	18.16	18.20	19.50	22.43	22.80	22.89	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.75	19.85	19.79	21.00	15.61	15.65	15.72	17.00	20.13	20.30	20.15	21.00

Band 2 Modem C Ant0										Band 4 Modem C Ant0										Band 5 Modem C Ant0										Band 7 Modem C Ant0										
RF	Modem	RB Size	RB Offset	Power Low Ch. (dBm)	Power High Ch. (dBm)	Power High Ch. (dBm)	Turn-up	Int. (dB)	MPRE (dB)	RF	Modem	RB Size	RB Offset	Power Low Ch. (dBm)	Power High Ch. (dBm)	Power High Ch. (dBm)	Turn-up	Int. (dB)	MPRE (dB)	RF	Modem	RB Size	RB Offset	Power Low Ch. (dBm)	Power High Ch. (dBm)	Power High Ch. (dBm)	Turn-up	Int. (dB)	MPRE (dB)	RF	Modem	RB Size	RB Offset	Power Low Ch. (dBm)	Power High Ch. (dBm)	Power High Ch. (dBm)	Turn-up	Int. (dB)	MPRE (dB)	
Channel										Channel										Channel										Channel										
20	QPSK	1	0	21.65	21.78	21.65				20	QPSK	1	0	19.63	19.75	19.63					19	QPSK	1	0	23.13	23.22	23.13				20	QPSK	1	0	19.95	19.95	19.95			
20	QPSK	1	49	21.59	21.73	21.58	23.5	0		20	QPSK	1	49	19.74	19.70	19.85	20.5	0			19	QPSK	1	25	23.05	23.06	23.04	24.5	0		20	QPSK	1	49	19.88	19.79	19.87	20.5	0	
20	QPSK	5	0	21.68	21.72	21.62				20	QPSK	5	0	19.73	19.74	19.72					19	QPSK	5	0	23.13	23.17	23.13				20	QPSK	5	0	19.66	19.57	19.70			
20	QPSK	5	24	21.65	21.61	21.67	23.5	0		20	QPSK	5	24	19.67	19.68	19.73	20.5	0			19	QPSK	5	12	23.15	23.25	23.21	23.5	1		20	QPSK	5	24	19.68	19.74	19.67	20.5	0	
20	QPSK	10	0	21.68	21.70	21.66				20	QPSK	10	0	19.75	19.75	19.75					19	QPSK	10	0	23.16	23.16	23.16				20	QPSK	10	0	19.76	19.66	19.63			
20	QPSK	10	24	21.68	21.72	21.68	23.5	0		20	QPSK	10	24	19.63	19.63	19.81	20.5	0			19	QPSK	10	1	23.21	23.16	23.10	23.5	1		20	QPSK	10	1	19.67	19.66	19.90			
20	QPSK	16	0	21.62	21.66	21.68				20	QPSK	16	0	19.78	19.78	19.78					19	QPSK	16	0	23.18	23.18	23.18				20	QPSK	16	0	19.78	19.78	19.78			
20	QPSK	16	24	21.68	21.74	21.63	23.5	0		20	QPSK	16	24	19.78	19.74	19.76	20.5	0			19	QPSK	16	1	23.20	23.16	23.14	23.5	1		20	QPSK	16	1	19.67	19.76	19.87			
20	QPSK	24	0	21.59	21.74	21.59				20	QPSK	24	0	19.69	19.57	19.74	20.5	0			19	QPSK	24	0	23.14	23.26	23.14				20	QPSK	24	0	19.71	19.75	19.87	20.5	0	
20	QPSK	24	24	21.62	21.74	21.59	23.5	0		20	QPSK	24	24	19.74	19.74	19.83	20.5	0			19	QPSK	24	1	23.19	23.23	23.19	23.5	2		20	QPSK	24	1	19.76	19.75	19.86			
20	QPSK	50	0	21.58	21.72	21.57				20	QPSK	50	0	19.70	19.77	19.76	20.5	0			19	QPSK	50	0	23.15	23.11	23.21				20	QPSK	50	0	19.74	19.75	19.81			
20	QPSK	50	24	21.62	21.74	21.55	23.5	0		20	QPSK	50	24	19.76	19.60	19.77	20.5	0			19	QPSK	50	1	23.14	23.24	23.16	23.5	2		20	QPSK	50	1	19.82	19.88	19.87			
20	QPSK	50	50	21.58	21.72	21.57				20	QPSK	50	50	19.70	19.77	19.76	20.5	0			19	QPSK	50	1	23.16	23.16	23.16				20	QPSK	50	1	19.76	19.66	19.63			
20	QPSK	1	0	21.65	21.78	21.65				20	QPSK	1	0	19.63	19.75	19.63					19	QPSK	1	0	23.13	23.22	23.13				20	QPSK	1	0	19.95	19.95	19.95			
20	QPSK	1	49	21.59	21.73	21.58	23.5	0		20	QPSK	1	49	19.74	19.70	19.85	20.5	0			19	QPSK	1	25	23.05	23.06	23.04	24.5	0		20	QPSK	1	49	19.88	19.79	19.87	20.5	0	
20	QPSK	5	0	21.68	21.72	21.62				20	QPSK	5	0	19.73	19.74	19.72					19	QPSK	5	0	23.13	23.17	23.13				20	QPSK	5	0	19.66	19.57	19.70			
20	QPSK	5	24	21.65	21.61	21.67	23.5	0		20	QPSK	5	24	19.67	19.68	19.73	20.5	0			19	QPSK	5	12	23.15	23.25	23.21	23.5	1		20	QPSK	5	24	19.68	19.74	19.67	20.5	0	
20	QPSK	10	0	21.68	21.70	21.66				20	QPSK	10	0	19.75	19.75	19.75					19	QPSK	10	0	23.16	23.16	23.16				20	QPSK	10	0	19.76	19.66	19.63			
20	QPSK	10	24	21.68	21.72	21.68	23.5	0		20	QPSK	10	24	19.63	19.63	19.81	20.5	0			19	QPSK	10	1	23.21	23.16	23.10	23.5	1		20	QPSK	10	1	19.67	19.66	19.90			
20	QPSK	16	0	21.62	21.66	21.68				20	QPSK	16	0	19.78	19.78	19.78					19	QPSK	16	0	23.18	23.18	23.18				20	QPSK	16	0	19.78	19.78	19.78			
20	QPSK	16	24	21.68	21.74	21.63	23.5	0		20	QPSK	16	24	19.78	19.74	19.76	20.5	0			19	QPSK	16	1	23.20	23.16	23.14	23.5	1		20	QPSK	16	1	19.67	19.76	19.87			
20	QPSK	24	0	21.59	21.74	21.59				20	QPSK	24	0	19.69	19.57	19.74	20.5	0			19	QPSK	24	0	23.14	23.26	23.14				20	QPSK	24	0	19.71	19.75	19.87	20.5	0	
20	QPSK	24	24	21.62	21.74	21.59	23.5	0		20	QPSK	24	24	19.74	19.74	19.83	20.5	0			19	QPSK	24	1	23.19	23.23	23.19	23.5	2		20	QPSK	24	1	19.76	19.75	19.86			
20	QPSK	50	0	21.58	21.72	21.57				20	QPSK	50	0	19.70	19.77	19.76	20.5	0			19	QPSK	50	0	23.15	23.11	23.21				20	QPSK	50	0	19.74	19.75	19.81			
20	QPSK	50	24	21.62	21.74	21.55	23.5	0		20	QPSK	50	24	19.76	19.60	19.77	20.5	0			19	QPSK	50	1	23.14	23.24	23.16	23.5	2		20	QPSK	50	1	19.82	19.88	19.87			
20	QPSK	50	50	21.58	21.72	21.57				20	QPSK	50	50	19.70	19.77	19.76	20.5	0			19	QPSK	50	1	23.16	23.16	23.16				20	QPSK	50	1	19.76	19.66	19.63			
20	QPSK	1	0	21.65	21.78	21.65				20	QPSK	1	0	19.63	19.75	19.63					19	QPSK	1	0	23.13	23.22	23.13				20	QPSK	1	0	19.95	19.95	19.95			
20	QPSK	1	49	21.59	21.73	21.58	23.5	0		20	QPSK	1	49	19.74	19.70	19.85	20.5	0			19	QPSK	1	25	23.05	23.06	23.04	24.5	0		20	QPSK	1	49	19.88	19.79	19.87	20.5	0	
20	QPSK	5	0	21.68	21.72	21.62				20	QPSK	5	0	19.73	19.74	19.72					19	QPSK	5	0	23.13	23.17	23.13				20	QPSK	5	0	19.66	19.57	19.70			
20	QPSK	5	24	21.65	21.61	21.67	23.5	0		20	QPSK	5	24	19.67	19.68	19.73	20.5	0			19	QPSK	5	12	23.15	23.25	23.21	23.5	1		20	QPSK	5	24	19.68	19.74	19.67	20.5	0	
20	QPSK	10	0	21.68	21.70	21.66				20	QPSK	10	0	19.75	19.75	19.75					19	QPSK	10	0	23.16	23.16	23.16				20	QPSK	10	0	19.76	19.66	19.63			
20	QPSK	10	24	21.68	21.72	21.68	23.5	0		20	QPSK	10	24	19.63	19.63	19.81	20.5	0			19	QPSK	10	1	23.21	23.16	23.10	23.5	1		20	QPSK	10	1	19.67	19.66	19.90			
20	QPSK	16	0	21.62	21.66	21.68				20	QPSK	16	0	19.78	19.78	19.78					19	QPSK	16	0	23.18	23.18	23.18				20	QPSK	16	0	19.78	19.78	19.78			
20	QPSK	16	24	21.68	21.74	21.63	23.5	0		20	QPSK	16	24	19.78	19.74	19.76	20.5	0			19	QPSK	16	1	23.20	23.16	23.14	23.5	1		20	QPSK	16	1	19.67	19.76	19.87			
20	QPSK	24	0	21.59	21.74	21.59				20	QPSK	24	0	19.69	19.57	19.74	20.5	0			19	QPSK	24	0	23.14	23.26	23.14				20	QPSK	24	0	19.71	19.75	19.87	20.5	0	
20	QPSK	24	24	21.62	21.74	21.59	23.5	0		20	QPSK	24	24	19.74	19.74	19.83	20.5	0			19	QPSK	24	1	23.19	23.23	23.19	23.5	2		20	QPSK	24	1	19.76	19.75	19.86			
20	QPSK	50	0	21.58	21.72	21.57				20	QPSK	50	0	19.70	19.77	19.76	20.5	0			19	QPSK	50	0	23.15	23.11	23.21				20	QPSK	50	0	19.74	19.75	19.81			
20	QPSK	50	24	21.62	21.74	21.55	23.5	0		20	QPSK	50	24	19.76	19.60	19.77	20.5	0			19	QPSK	50	1	23.14	23.24	23.16	23.5	2		20	QPSK	50	1	19.82	19.88	19.87			
20	QPSK	50	50	21.58	21.72	21.57				20	QPSK	50	50	19.70	19.77	19.76	20.5	0			19	QPSK	50	1	23.16	23.16	23.16				20	QPSK	50	1	19.76	19.66	19.63			
20	QPSK	1	0	21.65	21.78	21.65				20	QPSK	1	0	19.63	19.75	19.63					19	QPSK	1	0																

Band 12 Modem C Ant0									
BW (MHz)	Modem on	RB Size	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Turn-on time (s)	Turn-off time (s)	MFR (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.26	23.40	23.36			
10	QPSK	1	26	23.27	23.41	23.37	24.5	0	
10	QPSK	1	49	23.07	23.33	23.37			
10	QPSK	25	0	22.34	22.30	22.37			
10	QPSK	25	12	22.24	22.21	22.35			
10	QPSK	25	25	22.38	22.35	22.35	23.5	1	
10	QPSK	50	0	22.34	22.30	22.34			
10	QPSK	50	0	22.34	22.30	22.34			
10	QPSK	1	25	22.09	22.23	22.35	23.5	1	
10	QPSK	1	49	22.17	22.44	22.48			
10	QPSK	25	0	21.25	21.49	21.31			
10	QPSK	25	12	21.27	21.24	21.43	22.5	2	
10	QPSK	25	25	21.34	21.44	21.35			
10	QPSK	50	0	21.23	21.36	21.42			
10	QPSK	1	0	21.39	21.30	21.47	22.5	2	
10	QPSK	1	25	21.32	21.19	21.59			
10	QPSK	1	49	21.04	21.27	21.31			
10	QPSK	25	0	20.17	20.50	20.46			
10	QPSK	25	12	20.30	20.37	20.59	21.5	3	
10	QPSK	25	25	20.12	20.33	20.24			
10	QPSK	50	0	20.15	20.37	20.27			
10	QPSK	1	0	18.19	18.37	18.45			
10	QPSK	1	25	18.17	18.14	18.38	19.5	5	
10	QPSK	1	49	18.13	18.42	18.25			
10	QPSK	25	0	18.26	18.30	18.43			
10	QPSK	25	12	18.28	18.33	18.31	19.5	5	
10	QPSK	25	25	18.13	18.11	18.22			
10	QPSK	50	0	18.12	18.12	18.22			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.24	23.38	23.36			
5	QPSK	1	26	23.19	23.43	23.34	24.5	0	
5	QPSK	1	24	23.02	23.31	23.34			
5	QPSK	12	0	22.33	22.38	22.38			
5	QPSK	12	0	22.22	22.26	22.29	23.5	1	
5	QPSK	12	13	22.36	22.33	22.35			
5	QPSK	25	0	22.29	22.33	22.33			
5	QPSK	25	0	22.24	22.39	22.39			
5	QPSK	1	12	22.09	22.19	22.34	23.5	1	
5	QPSK	1	26	22.12	22.41	22.48			
5	QPSK	12	0	21.25	21.48	21.27			
5	QPSK	12	7	21.27	21.24	21.38	22.5	2	
5	QPSK	12	13	21.43	21.42	21.35			
5	QPSK	25	0	21.24	21.32	21.37			
5	QPSK	1	0	21.38	21.29	21.48	22.5	2	
5	QPSK	1	26	21.36	21.29	21.35			
5	QPSK	1	24	21.04	21.27	21.26			
5	QPSK	12	0	20.12	20.46	20.46			
5	QPSK	12	0	20.06	20.36	20.36	21.5	3	
5	QPSK	12	13	20.11	20.34	20.19			
5	QPSK	25	0	20.08	20.34	20.21			
5	QPSK	1	0	18.14	18.30	18.43			
5	QPSK	1	12	18.17	18.10	18.34	19.5	5	
5	QPSK	1	24	18.12	18.35	18.24			
5	QPSK	12	0	18.24	18.34	18.27			
5	QPSK	12	13	18.11	18.09	18.15	19.5	5	
5	QPSK	25	0	18.07	18.07	18.15			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.15	23.36	23.33			
1.4	QPSK	1	3	23.15	23.17	23.25	24.5	0	
1.4	QPSK	1	14	23.06	23.32	23.32			
1.4	QPSK	1	8	22.34	22.36	22.34			
1.4	QPSK	3	0	22.25	22.18	22.35	23.5	1	
1.4	QPSK	3	7	22.35	22.34	22.31			
1.4	QPSK	16	0	22.34	22.35	22.32			
1.4	QPSK	1	0	22.23	22.33	22.44	23.5	1	
1.4	QPSK	1	8	22.05	22.23	22.33			
1.4	QPSK	1	26	22.16	22.41	22.43			
1.4	QPSK	8	0	21.23	21.40	21.22			
1.4	QPSK	8	4	21.21	21.24	21.40	22.5	2	
1.4	QPSK	8	1	21.27	21.45	21.26			
1.4	QPSK	16	0	21.17	21.32	21.35			
1.4	QPSK	1	0	21.38	21.30	21.41	22.5	2	
1.4	QPSK	1	0	21.30	21.18	21.30			
1.4	QPSK	1	14	21.05	21.24	21.32			
1.4	QPSK	8	0	20.15	20.50	20.42			
1.4	QPSK	8	4	20.23	20.35	20.24	21.5	3	
1.4	QPSK	8	7	20.12	20.35	20.25			
1.4	QPSK	15	0	20.10	20.35	20.25			
1.4	QPSK	1	0	18.13	18.31	18.39			
1.4	QPSK	1	8	18.16	18.11	18.38	19.5	5	
1.4	QPSK	1	14	18.08	18.35	18.23			
1.4	QPSK	8	0	18.32	18.27	18.34			
1.4	QPSK	8	4	18.19	18.26	18.29	19.5	5	
1.4	QPSK	8	7	18.08	18.06	18.19			
1.4	QPSK	15	0	18.08	18.30	18.38			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.15	23.36	23.33			
1.4	QPSK	1	3	23.15	23.17	23.25	24.5	0	
1.4	QPSK	1	14	23.06	23.32	23.32			
1.4	QPSK	1	8	22.34	22.36	22.34			
1.4	QPSK	3	0	22.25	22.18	22.35	23.5	1	
1.4	QPSK	3	7	22.35	22.34	22.31			
1.4	QPSK	16	0	22.34	22.35	22.32			
1.4	QPSK	1	0	22.23	22.33	22.44	23.5	1	
1.4	QPSK	1	8	22.05	22.23	22.33			
1.4	QPSK	1	26	22.16	22.41	22.43			
1.4	QPSK	8	0	21.23	21.40	21.22			
1.4	QPSK	8	4	21.21	21.24	21.40	22.5	2	
1.4	QPSK	8	1	21.27	21.45	21.26			
1.4	QPSK	16	0	21.17	21.32	21.35			
1.4	QPSK	1	0	21.38	21.30	21.41	22.5	2	
1.4	QPSK	1	0	21.30	21.18	21.30			
1.4	QPSK	1	14	21.05	21.24	21.32			
1.4	QPSK	8	0	20.15	20.50	20.42			
1.4	QPSK	8	4	20.23	20.35	20.24	21.5	3	
1.4	QPSK	8	7	20.12	20.35	20.25			
1.4	QPSK	15	0	20.10	20.35	20.25			
1.4	QPSK	1	0	18.13	18.31	18.39			
1.4	QPSK	1	8	18.16	18.11	18.38	19.5	5	
1.4	QPSK	1	14	18.08	18.35	18.23			
1.4	QPSK	8	0	18.32	18.27	18.34			
1.4	QPSK	8	4	18.19	18.26	18.29	19.5	5	
1.4	QPSK	8	7	18.08	18.06	18.19			
1.4	QPSK	15	0	18.08	18.30	18.38			

Band 13 Modem C Ant0									
BW (MHz)	Modem on Channel	RB Size	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Turn-on time (s)	Turn-off time (s)	MFR (dB)
Frequency (MHz)									
10	QPSK	1	0	23.25	23.40	23.36	24.5	0	
10	QPSK	1	25	23.27	23.41	23.37			
10	QPSK	1	49	23.08	23.33	23.37			
10	QPSK	25	0	22.37	22.30	22.37	23.5	1	
10	QPSK	25	12	22.24	22.21	22.35			
10	QPSK	25	25	22.38	22.35	22.35			
10	QPSK	50	0	22.34	22.30	22.34	23.5	1	
10	QPSK	50	0	22.34	22.30	22.34			
10	QPSK	1	49	22.11	22.44	22.48			
10	QPSK	25	0	21.25	21.49	21.31	22.5	2	
10	QPSK	25	12	21.27	21.24	21.43			
10	QPSK	25	25	21.34	21.44	21.35			
10	QPSK	50	0	21.23	21.36	21.42	21.5	3	
10	QPSK	1	0	21.39	21.30	21.47			
10	QPSK	1	25	21.32	21.19	21.59			
10	QPSK	1	49	21.04	21.27	21.31	19.5	5	
10	QPSK	25	0	20.17	20.50	20.46			
10	QPSK	25	12	20.30	20.37	20.59			
10	QPSK	25	25	20.12	20.33	20.24	19.5	5	
10	QPSK	50	0	20.15	20.37	20.27			
10	QPSK	1	0	18.19	18.37	18.45			
10	QPSK	1	25	18.17	18.14	18.38	19.5	5	
10	QPSK	1	49	18.14	18.42	18.25			
10	QPSK	25	0	18.26	18.30	18.43			
10	QPSK	25	12	18.28	18.33	18.31	19.5	5	
10	QPSK	25	25	18.13	18.11	18.16			
10	QPSK	50	0	18.22	18.24	18.17			
Frequency (MHz)									
5	QPSK	1	0	23.11	23.25	23.16	24.5	0	
5	QPSK	1	12	23.22	23.35	23.04			
5	QPSK	1	24	23.17	23.22	23.03			
5	QPSK	12	0	22.67	22.62	22.58	23.5	1	
5	QPSK	12	7	22.28	22.22	22.27			
5	QPSK	12	12	22.29	22.22	22.21			
5	QPSK	25	0	22.67	22.62	22.62	23.5	1	
5	QPSK	1	0	22.08	22.06	22.08			
5	QPSK	1	24	22.17	22.05	22.18			
5	QPSK	12	0	21.36	21.30	21.24	22.5	2	
5	QPSK	12	12	21.14	21.36	21.19			
5	QPSK	12	13	21.19	21.36	21.31			
5	QPSK	25	0	21.36	21.22	21.31	22.5	2	
5	QPSK	25	12	21.22	21.22	21.26			
5	QPSK	12	7	20.11	20.31	20.32			
5	QPSK	12	13	20.28	20.38	20.10	21.5	3	
5	QPSK	25	0	20.28	20.38	20.06			
5	QPSK	1	0	18.23	18.23	18.18			
5	QPSK	1	12	18.08	18.01	18.06	19.5	5	
5	QPSK	1	24	18.06	18.13	18.16			
5	QPSK	12	0	18.22	18.18	18.22			
5	QPSK	12	7	18.12	18.13	18.16	19.5	5	
5	QPSK	12	13	18.16	18.16	18.12			
5	QPSK	25	0	18.22	18.24	18.17			

Band 25 Modem C Ant0									
BW (MHz)	Modem on Channel	RB Size	RB Offset	Power Low Ch./Freq. 16140	Power High Ch./Freq. 16140	Power High Ch./Freq. 26960	Turn-on time (s)	Turn-off time (s)	MPE (dB)
Frequency (MHz)									
20	OPRSK	1	0	22.11	22.23	22.17	23.5	0	
20	OPRSK	1	46	21.88	22.03	22.07			
20	OPRSK	1	96	22.16	22.18	22.15			
20	OPRSK	50	0	22.09	22.15	22.08			
20	OPRSK	50	24	21.87	21.87	22.03			
20	OPRSK	50	50	21.80	22.08	22.17			
20	OPRSK	100	0	22.03	22.07	22.05			
20	OPRSK	1	46	21.81	22.05	21.85			
20	OPRSK	1	96	22.04	22.16	22.05			
20	OPRSK	50	0	22.05	22.11	22.08			
20	OPRSK	50	24	21.04	21.16	21.10	22.5	1	
20	OPRSK	50	50	21.17	21.10	21.34			
20	OPRSK	100	0	21.14	21.26	21.26			
20	OPRSK	1	0	21.07	21.06	21.05			
20	OPRSK	1	46	21.90	21.93	22.01	23.5	0	
20	OPRSK	1	96	22.15	22.15	22.13			
20	OPRSK	50	0	21.07	21.20	21.28			
20	OPRSK	50	24	21.04	21.16	21.10			
20	OPRSK	50	50	21.17	21.10	21.34			
20	OPRSK	100	0	21.14	21.26	21.26			
20	OPRSK	1	0	21.07	21.06	21.05			
20	OPRSK	1	46	19.11	19.33	19.21	20.5	1	
20	OPRSK	1	96	19.24	19.27	19.45			
20	OPRSK	50	0	19.25	19.24	19.41			
20	OPRSK	50	24	19.10	19.24	19.18			
20	OPRSK	50	50	19.32	19.25	19.44			
20	OPRSK	100	0	19.22	19.36	19.35			
Channel									
26960-16140									
Frequency (MHz)									
15	OPRSK	1	0	16.67	16.60	16.67	23.5	0	
15	OPRSK	1	46	16.68	16.72	16.72			
15	OPRSK	1	96	16.70	16.82	16.79			
15	OPRSK	36	0	22.01	22.14	22.04			
15	OPRSK	36	24	21.95	21.78	21.81			
15	OPRSK	36	50	21.79	21.89	22.11			
15	OPRSK	75	0	21.94	21.96	21.94			
15	OPRSK	1	0	21.94	22.08	21.94			
15	OPRSK	1	37	21.85	21.92	21.88			
15	OPRSK	1	74	22.00	22.08	21.97			
15	OPRSK	36	0	22.01	22.08	22.05			
15	OPRSK	36	20	21.93	21.96	21.98			
15	OPRSK	36	50	21.86	21.92	21.98			
15	OPRSK	75	0	21.96	22.10	22.03			
15	OPRSK	1	0	21.95	22.10	22.03			
15	OPRSK	1	37	21.86	21.91	21.85	23.5	0	
15	OPRSK	1	74	22.02	22.11	22.09			
15	OPRSK	36	0	20.97	21.08	21.19			
15	OPRSK	36	20	20.97	21.04	21.04			
15	OPRSK	36	50	21.05	21.05	21.10			
15	OPRSK	75	0	21.08	21.15	21.16			
15	OPRSK	1	0	21.05	21.15	21.10			
15	OPRSK	1	37	19.05	19.20	19.18			
15	OPRSK	1	74	19.15	19.15	19.42			
15	OPRSK	36	0	19.17	19.23	19.26			
15	OPRSK	36	20	19.38	19.17	19.55			
15	OPRSK	36	50	19.26	19.17	19.38			
15	OPRSK	75	0	19.13	19.23	19.31			
Channel									
26960-16140									
Frequency (MHz)									
10	OPRSK	1	0	16.66	16.60	16.66	23.5	0	
10	OPRSK	1	25	16.69	16.72	16.74			
10	OPRSK	1	46	22.00	22.02	22.04			
10	OPRSK	1	74	22.03	22.07	22.09			
10	OPRSK	36	0	22.01	22.14	22.04			
10	OPRSK	36	24	21.93	21.77	21.95			
10	OPRSK	36	50	21.83	22.01	22.10			
10	OPRSK	75	0	21.92	22.02	22.05			
10	OPRSK	1	0	21.91	22.04	21.97			
10	OPRSK	1	25	21.78	22.02	21.83			
10	OPRSK	1	46	22.02	22.06	22.05			
10	OPRSK	25	0	22.02	22.04	21.94			
10	OPRSK	25	12	22.00	21.85	22.08			
10	OPRSK	25	16	22.17	22.17	22.04			
10	OPRSK	50	0	21.96	22.12	22.09			
10	OPRSK	1	0	21.85	21.92	21.98			
10	OPRSK	1	25	21.01	21.14	21.21			
10	OPRSK	1	46	20.98	21.10	20.95			
10	OPRSK	25	0	21.09	21.11	21.33			
10	OPRSK	50	0	21.06	21.24	21.14			
10	OPRSK	1	0	19.09	19.25	19.25			
10	OPRSK	1	25	19.08	19.31	19.11			
10	OPRSK	1	46	19.22	19.24	19.33			
10	OPRSK	25	0	19.25	19.32	19.32			
10	OPRSK	25	12	19.39	19.17	19.16			
10	OPRSK	25	16	19.27	19.25	19.32			
10	OPRSK	50	0	19.16	19.32	19.26			
Channel									
26960-16140									
Frequency (MHz)									
5	OPRSK	1	0	22.02	22.08	22.12	23.5	0	
5	OPRSK	1	12	21.92	21.98	21.96			
5	OPRSK	1	24	22.02	22.02	22.01			
5	OPRSK	12	0	21.98	22.02	21.96			
5	OPRSK	12	7	21.95	21.80	21.96			
5	OPRSK	12	13	21.83	21.86	22.05			
5	OPRSK	25	0	21.85	21.93	21.86			
5	OPRSK	1	0	22.00	22.01	21.97			
5	OPRSK	1	12	21.81	21.97	21.94			
5	OPRSK	1	24	21.99	22.14	21.98			
5	OPRSK	12	0	22.01	22.09	21.96			
5	OPRSK	12	7	22.02	21.91	22.03			
5	OPRSK	12	13	22.18	22.11	22.11			
5	OPRSK	25	0	21.89	22.13	22.17			
5	OPRSK	1	0	21.86	22.17	22.02			
5	OPRSK	1	12	21.82	21.84	21.89			
5	OPRSK	1	24	22.09	22.07	22.10			
5	OPRSK	12	0	21.01	21.10	21.19			
5	OPRSK	12	7	21.02	21.12	21.03			
5	OPRSK	12	13	21.05	21.14	21.24			
5	OPRSK	25	0	21.11	21.21	21.24			
5	OPRSK	1	0	19.10	19.26	19.25			
5	OPRSK	1	12	19.08	19.26	19.14			
5	OPRSK	1	24	19.18	19.24	19.36			
5	OPRSK	12	0	19.16	19.36	19.35			
5	OPRSK	12	7	19.03	19.20	19.16			
5	OPRSK	12	13	19.40	19.16	19.39			
5	OPRSK	25	0	19.17	19.25	19.31			
Channel									
26960-16140									
Frequency (MHz)									
3	OPRSK	1	0	22.04	22.12	22.12	23.5	0	
3	OPRSK	1	8	21.88	21.96	22.00			
3	OPRSK	1	14	22.09	22.10	22.03			
3	OPRSK	8	0	21.87	22.13	21.98			
3	OPRSK	8	4	21.87	21.81	21.80			
3	OPRSK	8	7	21.80	22.04	22.06			
3	OPRSK	15	0	22.00	21.96	21.99			
3	OPRSK	1	0	22.01	22.04	21.97			
3	OPRSK	1	8	21.84	22.05	21.88			
3	OPRSK	1	14	21.84	22.10	22.03			
3	OPRSK	8	0	21.92	22.02	21.98			
3	OPRSK	8	4	21.83	21.97	21.99			
3	OPRSK	8	7	22.09	22.17	22.08			
3	OPRSK	15	0	21.99	22.13	22.17			
3	OPRSK	1	0	21.89	22.10	22.09			
3	OPRSK	1	8	21.79	21.92	21.94	23.5	0	
3	OPRSK	1	14	22.07	22.08	22.05			
3	OPRSK	8	0	21.03	21.12	21.23			
3	OPRSK	8	4	20.95	21.12	20.98			
3	OPRSK	8	7	21.14	21.17	21.29			
3	OPRSK	15	0	19.15	19.24	19.33			
3	OPRSK	8	0	19.26	19.32	19.37			
3	OPRSK	8	4	19.04	19.12	19.05			
3	OPRSK	8	7	19.23	19.17	19.43			
3	OPRSK	15	0	19.11	19.27	19.24			
Channel									
26960-16140									
Frequency (MHz)									
1.4	OPRSK	1	0	22.08	22.16	22.05	23.5	0	
1.4	OPRSK	1	3	21.97	21.97	21.92			
1.4	OPRSK	1	6	22.10	22.06	22.12			
1.4	OPRSK	3	0	22.05	22.11	22.08			
1.4	OPRSK	3							

Band 66 Modem C Ant0														
BW (MHz)	Modem Cat	RB Size	RB Offset	Power Low Ch / Freq.	Power Modem Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.80	18.92	18.85	20.5	0						
20	QPSK	1	48	18.83	18.93	18.79								
20	QPSK	1	96	18.80	18.90	18.84								
20	QPSK	50	0	18.70	18.87	18.78								
20	QPSK	50	24	18.51	18.68	18.69	20.5	1						
20	QPSK	50	50	18.69	18.71	18.78								
20	QPSK	100	0	18.70	18.90	18.77								
20	16QAM	1	0	18.54	18.71	18.70								
20	16QAM	1	48	18.75	18.81	18.79	20.5	0						
20	16QAM	1	96	18.69	18.80	18.74								
20	16QAM	50	0	18.50	18.73	18.74								
20	16QAM	50	24	18.73	18.81	18.75								
20	16QAM	50	50	18.77	18.86	18.78	20.5	0						
20	16QAM	100	0	18.53	18.70	18.73								
20	16QAM	1	0	18.67	18.85	18.79								
20	16QAM	1	48	18.73	18.86	18.79								
20	16QAM	1	96	18.51	18.71	18.73	20.5	0						
20	16QAM	50	0	18.75	18.80	18.72								
20	16QAM	50	24	18.69	18.88	18.76								
20	16QAM	50	50	18.58	18.76	18.69								
20	16QAM	100	0	18.69	18.79	18.77	20.5	0						
20	16QAM	1	0	18.36	18.43	18.39								
20	16QAM	1	48	18.14	18.30	18.33								
20	16QAM	1	96	18.40	18.41	18.44								
20	16QAM	50	0	18.36	18.42	18.39	20.5	0						
20	16QAM	50	24	18.40	18.48	18.37								
20	16QAM	50	50	18.13	18.37	18.32								
20	16QAM	100	0	18.33	18.41	18.37								
Channel														
Frequency (MHz)														
1717.5 1745 1772.5														
15	QPSK	1	0	18.74	18.81	18.71	20.5	0						
15	QPSK	1	24	18.53	18.72	18.68								
15	QPSK	1	74	18.72	18.83	18.79								
15	QPSK	36	0	18.61	18.77	18.73								
15	QPSK	36	24	18.45	18.74	18.69	20.5	0						
15	QPSK	36	36	18.57	18.57	18.69								
15	QPSK	75	0	18.56	18.70	18.69								
15	16QAM	1	0	18.59	18.68	18.60								
15	16QAM	1	37	18.66	18.74	18.70	20.5	0						
15	16QAM	1	24	18.36	18.48	18.47								
15	16QAM	36	0	18.63	18.67	18.67								
15	16QAM	36	20	18.65	18.78	18.72								
15	16QAM	36	20	18.65	18.78	18.72	20.5	0						
15	16QAM	75	0	18.59	18.65	18.64								
15	16QAM	1	0	18.25	18.31	18.32								
15	16QAM	1	37	18.10	18.23	18.19								
15	16QAM	1	74	18.31	18.33	18.29	20.5	0						
15	16QAM	36	0	18.24	18.33	18.36								
15	16QAM	36	24	18.27	18.37	18.34								
15	16QAM	36	36	18.02	18.28	18.28								
15	16QAM	75	0	18.21	18.28	18.26								
Channel														
Frequency (MHz)														
1717.5 1745 1772.5														
10	QPSK	1	0	18.70	18.86	18.74	20.5	0						
10	QPSK	1	24	18.51	18.72	18.65								
10	QPSK	1	48	18.74	18.82	18.70								
10	QPSK	25	0	18.58	18.74	18.74								
10	QPSK	25	12	18.54	18.78	18.82	20.5	0						
10	QPSK	25	25	18.54	18.60	18.73								
10	QPSK	50	0	18.66	18.70	18.82								
10	16QAM	1	0	18.64	18.61	18.68								
10	16QAM	1	24	18.69	18.73	18.68	20.5	0						
10	16QAM	1	48	18.63	18.61	18.61								
10	16QAM	25	0	18.64	18.63	18.64								
10	16QAM	25	12	18.64	18.77	18.60								
10	16QAM	25	25	18.65	18.71	18.68	20.5	0						
10	16QAM	50	0	18.50	18.65	18.63								
10	16QAM	1	0	18.64	18.81	18.72								
10	16QAM	1	24	18.64	18.77	18.73								
10	16QAM	1	48	18.63	18.64	18.62	20.5	0						
10	16QAM	25	0	18.62	18.66	18.58								
10	16QAM	25	12	18.61	18.70	18.71								
10	16QAM	25	25	18.46	18.65	18.62								
10	16QAM	50	0	18.58	18.73	18.68	20.5	0						
10	16QAM	1	0	18.28	18.35	18.35								
10	16QAM	1	24	18.11	18.28	18.20								
10	16QAM	1	48	18.26	18.26	18.41								
10	16QAM	25	0	18.33	18.28	18.28	20.5	0						
10	16QAM	25	12	18.28	18.41	18.22								
10	16QAM	25	25	18.04	18.31	18.22								
10	16QAM	50	0	18.21	18.31	18.31								
Channel														
Frequency (MHz)														
1717.5 1745 1772.5														
5	QPSK	1	0	18.70	18.86	18.74	20.5	0						
5	QPSK	1	12	18.55	18.77	18.73								
5	QPSK	1	24	18.73	18.87	18.78								
5	QPSK	12	0	18.55	18.71	18.68								
5	QPSK	12	7	18.69	18.72	18.83	20.5	0						
5	QPSK	12	13	18.55	18.60	18.65								
5	QPSK	25	0	18.55	18.75	18.72								
5	16QAM	1	0	18.69	18.58	18.55								
5	16QAM	1	12	18.72	18.67	18.67	20.5	0						
5	16QAM	1	24	18.58	18.73	18.66								
5	16QAM	12	0	18.55	18.70	18.70								
5	16QAM	12	7	18.69	18.73	18.68								
5	16QAM	12	13	18.69	18.74	18.68	20.5	0						
5	16QAM	25	0	18.56	18.72	18.63								
5	16QAM	1	0	18.56	18.78	18.66								
5	16QAM	1	12	18.64	18.70	18.73								
5	16QAM	1	24	18.65	18.58	18.68	20.5	0						
5	16QAM	12	0	18.65	18.60	18.60								

PC3 Band 38 Modem C Ant0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [dBm]	Power Middle Ch [dBm]	Power High Ch [dBm]	Tune-up limit (dBm)	MPR (dB)		
Channel				37825	38000	38175				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.75	21.89	21.68	23.5	0		
20	QPSK	1	49	21.63	21.87	21.52				
20	QPSK	1	99	21.67	21.65	21.56				
20	QPSK	50	0	21.55	21.85	21.63	23.5	0		
20	QPSK	50	24	21.73	21.80	21.52				
20	QPSK	50	50	21.72	21.69	21.61				
20	QPSK	100	0	21.58	21.65	21.52	23.5	0		
20	16QAM	1	0	21.68	21.75	21.59				
20	16QAM	1	49	21.62	21.71	21.66				
20	16QAM	1	99	21.71	21.64	21.62	23	0		
20	16QAM	50	0	21.23	21.36	21.29				
20	16QAM	50	24	21.35	21.35	21.14				
20	16QAM	50	50	21.33	21.35	21.10	23	0.5		
20	16QAM	100	0	21.21	21.40	21.19				
20	64QAM	1	0	21.35	21.42	21.23				
20	64QAM	1	49	21.39	21.25	21.27	23	0.5		
20	64QAM	1	99	21.31	21.36	21.28				
20	64QAM	50	0	20.30	20.47	20.26				
20	64QAM	50	24	20.24	20.39	20.29	22	1.5		
20	64QAM	50	50	20.38	20.40	20.31				
20	64QAM	100	0	20.22	20.26	20.12				
20	256QAM	1	0	18.30	18.30	18.25	20	3.5		
20	256QAM	1	49	18.27	18.39	18.17				
20	256QAM	1	99	18.18	18.24	18.29				
20	256QAM	50	0	18.26	18.27	18.28	20	3.5		
20	256QAM	50	24	18.18	18.44	18.29				
20	256QAM	50	50	18.22	18.40	18.26				
20	256QAM	100	0	18.35	18.32	18.26	20	3.5		
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	21.74	21.88	21.64	23.5	0		
15	QPSK	1	37	21.63	21.84	21.73				
15	QPSK	1	74	21.62	21.65	21.56				
15	QPSK	36	0	21.51	21.77	21.58	23.5	0		
15	QPSK	36	20	21.65	21.68	21.40				
15	QPSK	36	39	21.66	21.66	21.59				
15	QPSK	75	0	21.57	21.60	21.40	23.5	0		
15	16QAM	1	0	21.56	21.64	21.48				
15	16QAM	1	37	21.50	21.63	21.62				
15	16QAM	1	74	21.60	21.62	21.60	23	0.5		
15	16QAM	36	0	21.11	21.30	21.24				
15	16QAM	36	20	21.28	21.29	21.05				
15	16QAM	36	39	21.25	21.25	20.98	23	0.5		
15	16QAM	75	0	21.09	21.38	21.15				
15	64QAM	1	0	21.23	21.40	21.16				
15	64QAM	1	37	21.28	21.19	21.16	23	0.5		
15	64QAM	1	74	21.25	21.24	21.26				
15	64QAM	36	0	20.24	20.42	20.24				
15	64QAM	36	20	20.15	20.29	20.18	22	1.5		
15	64QAM	36	39	20.33	20.33	20.25				
15	64QAM	75	0	20.16	20.14	20.02				
15	256QAM	1	0	18.25	18.20	18.14	20	3.5		
15	256QAM	1	37	18.16	18.31	18.05				
15	256QAM	1	74	18.12	18.14	18.26				
15	256QAM	36	0	18.23	18.18	18.26	20	3.5		
15	256QAM	36	20	18.06	18.37	18.26				
15	256QAM	36	39	18.13	18.33	18.16				
15	256QAM	75	0	18.24	18.19	18.23	20	3.5		
Channel				37800 <th>38000<th>38200</th><th colspan="2"></th></th>	38000 <th>38200</th> <th colspan="2"></th>	38200				
Frequency (MHz)				2577.5	2595	2615				
10	QPSK	1	0	21.71	21.84	21.62	23.5	0		
10	QPSK	1	25	21.63	21.86	21.75				
10	QPSK	1	49	21.67	21.65	21.53				
10	QPSK	25	0	21.42	21.75	21.61	23.5	0		
10	QPSK	25	12	21.64	21.76	21.48				
10	QPSK	25	25	21.65	21.58	21.52				
10	16QAM	1	0	21.59	21.69	21.48	23.5	0		
10	16QAM	1	25	21.55	21.62	21.59				
10	16QAM	1	49	21.61	21.55	21.50				
10	16QAM	25	0	21.12	21.31	21.25	23	0.5		
10	16QAM	25	12	21.24	21.25	21.11				
10	16QAM	25	25	21.27	21.25	21.02				
10	64QAM	1	0	21.29	21.32	21.13	23	0.5		
10	64QAM	1	25	21.28	21.21	21.26				
10	64QAM	1	49	21.29	21.28	21.25				
10	64QAM	25	0	20.20	20.41	20.13	22	1.5		
10	64QAM	25	12	20.19	20.34	20.26				
10	64QAM	25	25	20.31	20.38	20.29				
10	64QAM	50	0	20.16	20.20	20.05	20	3.5		
10	256QAM	1	0	18.18	18.20	18.16				
10	256QAM	1	25	18.15	18.35	18.10				
10	256QAM	1	49	18.14	18.14	18.21	20	3.5		
10	256QAM	25	0	18.13	18.23	18.26				
10	256QAM	25	12	18.16	18.42	18.17				
10	256QAM	25	25	18.14	18.32	18.16	20	3.5		
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	21.69	21.85	21.64	23.5	0		
5	QPSK	1	12	21.58	21.81	21.51				
5	QPSK	1	24	21.67	21.60	21.55				
5	QPSK	12	0	21.45	21.83	21.53	23.5	0		
5	QPSK	12	7	21.70	21.76	21.40				
5	QPSK	12	13	21.60	21.57	21.57				
5	QPSK	25	0	21.45	21.62	21.41	23.5	0		
5	16QAM	1	0	21.64	21.73	21.48				
5	16QAM	1	12	21.60	21.66	21.55				
5	16QAM	1	24	21.64	21.58	21.57	23	0.5		
5	16QAM	12	0	21.20	21.33	21.28				
5	16QAM	12	7	21.30	21.24	21.08				
5	16QAM	12	13	21.23	21.24	20.98	23	0.5		
5	16QAM	25	0	21.19	21.36	21.06				
5	64QAM	1	0	21.30	21.39	21.11				
5	64QAM	1	12	21.32	21.24	21.20	23	0.5		
5	64QAM	1	24	21.25	21.29	21.23				
5	64QAM	12	0	20.19	20.41	20.21	22	1.5		
5	64QAM	12	7	20.21	20.26	20.21				
5	64QAM	12	13	20.34	20.36	20.18				
5	64QAM	25	0	20.15	20.21	20.11	20	3.5		
5	256QAM	1	0	18.21	18.17	18.29				
5	256QAM	1	12	18.24	18.38	18.09				
5	256QAM	1	24	18.12	18.19	18.21	20	3.5		
5	256QAM	12	0	18.13	18.20	18.21				
5	256QAM	12	7	18.15	18.31	18.18				
5	256QAM	12	13	18.09	18.27	18.21	20	3.5		
5	256QAM	25	0	18.23	18.25	18.15				
5	256QAM	25	7	18.23	18.25	18.25				

PC3 Band 41 Modem C Ant0												
BW [MHz]	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41065	41490				
Frequency (MHz)				2508	2549.5	2593	2636.5	2680				
20	QPSK	1	0	21.55	21.61	21.91	21.53	21.51		23.5	0	
20	QPSK	1	49	21.51	21.51	21.85	21.53	21.50				
20	QPSK	1	99	21.53	21.80	21.84	21.56	21.51				
20	QPSK	50	0	21.60	21.56	21.87	21.57	21.58		23.5	0	
20	QPSK	50	24	21.59	21.58	21.86	21.53	21.59				
20	QPSK	50	50	21.56	21.57	21.86	21.58	21.57				
20	QPSK	100	0	21.60	21.56	21.90	21.62	21.55				
20	16QAM	1	0	21.55	21.58	21.90	21.89	21.57		23.5	0	
20	16QAM	1	49	21.59	21.55	21.89	21.58	21.58				
20	16QAM	1	99	21.59	21.55	21.86	21.84	21.59				
20	16QAM	50	0	21.14	21.14	21.38	21.06	21.11				
20	16QAM	50	24	21.12	21.10	21.43	21.00	21.13		23	0.5	
20	16QAM	50	50	21.13	21.11	21.41	21.03	21.12				
20	16QAM	100	0	21.12	21.13	21.42	21.02	21.12				
20	64QAM	1	0	21.14	21.11	21.41	21.05	21.11				
20	64QAM	1	49	21.10	21.09	21.38	21.02	21.09		23	0.5	
20	64QAM	1	99	21.09	21.12	21.42	21.02	21.09				
20	64QAM	50	0	20.08	20.12	20.40	20.03	20.10				
20	64QAM	50	24	20.01	20.02	20.33	20.03	20.02		22	1.5	
20	64QAM	50	50	20.08	20.13	20.34	20.07	20.11				
20	64QAM	100	0	20.09	20.12	20.42	20.02	20.10				
20	256QAM	1	0	18.08	18.11	18.41	18.04	18.13		20	3.5	
20	256QAM	1	49	18.08	18.10	18.41	18.06	18.11				
20	256QAM	1	99	18.12	18.14	18.43	18.01	18.09				
20	256QAM	50	0	18.08	18.10	18.39	18.00	18.09				
20	256QAM	50	24	18.12	18.12	18.44	18.05	18.08		20	3.5	
20	256QAM	50	50	18.14	18.14	18.40	18.00	18.12				
20	256QAM	100	0	18.12	18.13	18.43	18.03	18.08				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	21.90	21.60	21.90	21.88	21.90		24	0	
15	QPSK	1	37	21.87	21.55	21.89	21.58	21.89				
15	QPSK	1	74	21.82	21.60	21.85	21.86	21.86				
15	QPSK	36	0	21.58	21.50	21.89	21.51	21.83				
15	QPSK	36	20	21.62	21.55	21.84	21.50	21.54		23.5	0	
15	QPSK	36	39	21.51	21.56	21.90	21.56	21.58				
15	QPSK	75	0	21.65	21.54	21.90	21.60	21.52				
15	16QAM	1	0	21.58	21.56	21.87	21.64	21.56		23.5	0	
15	16QAM	1	37	21.55	21.50	21.83	21.51	21.56				
15	16QAM	1	74	21.57	21.56	21.79	21.59	21.63				
15	16QAM	36	0	21.13	21.18	21.32	21.02	21.14		23	0.5	
15	16QAM	36	20	21.10	21.10	21.43	21.00	21.10				
15	16QAM	36	39	21.08	21.09	21.38	21.05	21.10				
15	16QAM	75	0	21.09	21.17	21.38	21.03	21.05				
15	64QAM	1	0	21.19	21.07	21.42	21.08	21.07		23	0.5	
15	64QAM	1	37	21.06	21.04	21.40	20.98	21.14				
15	64QAM	1	74	21.06	21.12	21.37	21.01	21.13				
15	64QAM	36	0	20.04	20.17	20.42	19.98	20.03				
15	64QAM	36	20	20.03	20.02	20.29	19.98	20.00		22	1.5	
15	64QAM	36	39	20.04	20.15	20.34	20.01	20.07				
15	64QAM	75	0	20.13	20.17	20.44	20.06	20.11				
15	256QAM	1	0	18.11	18.05	18.44	18.00	18.06		20	3.5	
15	256QAM	1	37	18.11	18.06	18.43	18.01	18.05				
15	256QAM	1	74	18.09	18.11	18.47	18.02	18.04				
15	256QAM	36	0	18.13	18.11	18.33	18.05	18.03		20	3.5	
15	256QAM	36	20	18.11	18.16	18.46	18.07	18.04				
15	256QAM	36	39	18.08	18.17	18.39	18.03	18.11				
15	256QAM	75	0	18.12	18.16	18.46	17.97	18.05				
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503	2547	2593	2637	2683				
10	QPSK	1	0	21.87	21.59	21.83	21.50	21.30		24	0	
10	QPSK	1	25	21.82	21.51	21.82	21.88	21.85				
10	QPSK	1	49	21.85	21.58	21.87	21.88	21.84				
10	QPSK	25	0	21.54	21.58	21.81	21.60	21.60				
10	QPSK	25	12	21.56	21.62	21.84	21.51	21.82		23.5	0	
10	QPSK	25	25	21.58	21.60	21.86	21.56	21.84				
10	QPSK	50	0	21.63	21.58	21.90	21.68	21.96				
10	16QAM	1	0	21.53	21.55	21.83	21.66	21.54		23.5	0	
10	16QAM	1	25	21.54	21.54	21.83	21.56	21.59				
10	16QAM	1	49	21.60	21.58	21.89	21.59	21.54				
10	16QAM	25	0	21.09	21.09	21.42	21.06	21.07				
10	16QAM	25	12	21.06	21.10	21.39	20.93	21.14		23	0.5	
10	16QAM	25	25	21.09	21.05	21.38	21.04	21.09				
10	16QAM	50	0	21.12	21.09	21.46	21.04	21.13				
10	64QAM	1	0	21.11	21.09	21.46	21.05	21.07				
10	64QAM	1	25	21.06	21.08	21.37	21.03	21.09		23	0.5	
10	64QAM	1	49	21.06	21.16	21.38	20.98	21.09				
10	64QAM	25	0	20.12	20.15	20.35	19.99	20.13				
10	64QAM	25	12	20.03	20.05	20.33	20.06	19.99		22	1.5	
10	64QAM	25	25	20.06	20.09	20.37	20.03	20.10				
10	64QAM	50	0	20.13	20.10	20.39	19.96	20.07				
10	256QAM	1	0	18.10	18.12	18.43	18.06	18.11		20	3.5	
10	256QAM	1	25	18.04	18.04	18.42	18.00	18.15				
10	256QAM	1	49	18.15	18.15	18.41	18.05	18.12				
10	256QAM	25	0	18.05	18.07	18.42	17.95	18.13				
10	256QAM	25	12	18.09	18.06	18.45	18.06	18.11		20	3.5	
10	256QAM	25	25	18.15	18.18	18.35	17.96	18.09				
10	256QAM	50	0	18.11	18.15	18.46	17.99	18.11				
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	21.85	21.87	21.87	21.89	21.87		24	0	
5	QPSK	1	12	21.89	21.85	21.87	21.84	21.83				
5	QPSK	1	24	21.86	21.83	21.85	21.82	21.88				
5	QPSK	12	0	21.59	21.56	21.86	21.53	21.52				
5	QPSK	12	7	21.60	21.63	21.82	21.54	21.59		23.5	0	
5	QPSK	12	13	21.60	21.61	21.81	21.61	21.54				
5	QPSK	25	0	21.54	21.55	21.90	21.62	21.59				
5	16QAM	1	0	21.59	21.56	21.83	21.67	21.51		23.5	0	
5	16QAM	1	12	21.55	21.51	21.83	21.52	21.60				
5	16QAM	1	24	21.58	21.60	21.86	21.60	21.54				
5	16QAM	12	0	21.16	21.17	21.32	21.08	21.16				
5	16QAM	12	7	21.11	21.05	21.44	21.04	21.14		23	0.5	
5	16QAM	12	13	21.18	21.12	21.45	21.06	21.13				
5	16QAM	25	0	21.13	21.16	21.37	20.97	21.10				
5	64QAM	1	0	21.08	21.06	21.45	21.01	21.11		23	0.5	
5	64QAM	1	12	21.04	21.11	21.37	20.98	21.11				
5	64QAM	1	24	21.12	21.16	21.36	20.96	21.09				
5	64QAM	12	0	20.02	20.11	20.36	20.05	20.04				
5	64QAM	12	7	19.95	19.98	20.34	20.03	20.01		22	1.5	
5	64QAM	12	13	20.06	20.13	20.29	20.07	20.07				
5	64QAM	25	0	20.10	20.06	20.40	20.02	20.13				
5	256QAM	1	0	18.07	18.09	18.41	18.02	18.17				
5	256QAM	1	12	18.13	18.05	18.43	18.08	18.15		20	3.5	
5	256QAM	1	24	18.15	18.12	18.44	17.96	18.07				
5	256QAM	12	0	18.07	18.05	18.33	17.97	18.08				

Band 2 Modem C Ant2										
BW (MHz)	Modem (MHz)	RB Size (kHz)	RB Offset (kHz)	Power Low (dBm)	Power Mid (dBm)	Power High (dBm)	Turn-on time (s)	Turn-off time (s)	Turn-on time (s)	Turn-off time (s)
Channel										
Frequency (MHz)	1880	1880	1900	1900	1900	1900				
20 QPSK	1	0	21.68	21.79	21.73	21.73	23.5	0		
20 QPSK	1	40	21.65	21.77	21.71	21.71	23.5	0		
20 QPSK	1	80	21.68	21.76	21.71	21.71	23.5	0		
20 QPSK	50	0	21.67	21.74	21.67	21.67	23.5	0		
20 QPSK	50	24	21.63	21.72	21.68	21.68	23.5	0		
20 QPSK	50	50	21.62	21.72	21.71	21.71	23.5	0		
20 QPSK	100	0	21.65	21.71	21.67	21.67	23.5	0		
20 QPSK	100	0	21.65	21.76	21.72	21.72	23.5	0		
20 QPSK	1	40	21.64	21.75	21.68	21.68	23.5	0		
20 QPSK	1	80	21.66	21.74	21.73	21.73	23.5	0		
20 QPSK	50	24	21.66	21.74	21.73	21.73	23.5	0		
20 QPSK	50	50	21.66	21.73	21.73	21.73	23.5	0		
20 QPSK	100	0	21.64	21.75	21.71	21.71	23.5	0		
20 QPSK	100	0	21.64	21.75	21.71	21.71	23.5	0		
20 QPSK	1	40	21.66	21.73	21.73	21.73	23.5	0		
20 QPSK	1	80	21.66	21.73	21.73	21.73	23.5	0		
20 QPSK	50	24	20.96	20.74	20.71	20.71	22.5	1		
20 QPSK	50	50	20.99	20.77	20.70	20.70	22.5	1		
20 QPSK	100	0	20.99	20.73	20.74	20.74	22.5	1		
20 QPSK	100	0	20.99	20.73	20.74	20.74	22.5	1		
20 QPSK	1	40	18.64	18.71	18.75	18.75	20.5	3		
20 QPSK	1	80	18.75	18.72	18.73	18.73	20.5	3		
20 QPSK	50	24	18.72	18.76	18.73	18.73	20.5	3		
20 QPSK	50	50	18.72	18.75	18.68	18.68	20.5	3		
20 QPSK	100	0	18.70	18.75	18.68	18.68	20.5	3		
Channel										
Frequency (MHz)	18875	18880	19000	19000	19000	19000				
15 QPSK	1	0	21.53	21.76	21.68	21.68	23.5	0		
15 QPSK	1	37	21.56	21.77	21.73	21.73	23.5	0		
15 QPSK	1	74	21.69	21.73	21.61	21.61	23.5	0		
15 QPSK	36	0	21.54	21.66	21.60	21.60	23.5	0		
15 QPSK	36	20	21.62	21.64	21.59	21.59	23.5	0		
15 QPSK	36	36	21.59	21.66	21.70	21.70	23.5	0		
15 QPSK	75	0	21.54	21.66	21.63	21.63	23.5	0		
15 QPSK	75	0	21.55	21.66	21.61	21.61	23.5	0		
15 QPSK	1	37	21.55	21.72	21.60	21.60	23.5	0		
15 QPSK	1	74	21.62	21.76	21.63	21.63	23.5	0		
15 QPSK	36	20	21.57	21.69	21.68	21.68	23.5	0		
15 QPSK	36	36	21.59	21.70	21.67	21.67	23.5	0		
15 QPSK	75	0	21.51	21.70	21.67	21.67	23.5	0		
15 QPSK	75	0	20.64	20.70	20.64	20.64	22.5	1		
15 QPSK	1	37	18.61	18.70	18.62	18.62	20.5	3		
15 QPSK	1	74	18.65	18.71	18.69	18.69	20.5	3		
15 QPSK	36	0	18.61	18.70	18.62	18.62	20.5	3		
15 QPSK	36	20	18.61	18.67	18.59	18.59	20.5	3		
15 QPSK	36	36	18.64	18.63	18.55	18.55	20.5	3		
15 QPSK	75	0	18.65	18.74	18.63	18.63	20.5	3		
Channel										
Frequency (MHz)	18925	18930	19130	19130	19130	19130				
10 QPSK	1	0	21.63	21.76	21.64	21.64	23.5	0		
10 QPSK	1	25	21.55	21.66	21.69	21.69	23.5	0		
10 QPSK	1	40	21.56	21.73	21.63	21.63	23.5	0		
10 QPSK	1	60	21.56	21.64	21.62	21.62	23.5	0		
10 QPSK	25	12	21.54	21.68	21.59	21.59	23.5	0		
10 QPSK	25	25	21.58	21.70	21.68	21.68	23.5	0		
10 QPSK	1	0	21.59	21.70	21.68	21.68	23.5	0		
10 QPSK	1	25	21.59	21.66	21.68	21.68	23.5	0		
10 QPSK	1	40	21.65	21.70	21.65	21.65	23.5	0		
10 QPSK	25	0	21.54	21.68	21.54	21.54	23.5	0		
10 QPSK	25	12	21.59	21.63	21.61	21.61	23.5	0		
10 QPSK	25	25	21.60	21.60	21.60	21.60	23.5	0		
10 QPSK	50	0	21.59	21.67	21.58	21.58	23.5	0		
10 QPSK	1	0	21.64	21.64	21.67	21.67	23.5	0		
10 QPSK	1	25	21.61	21.72	21.65	21.65	23.5	0		
10 QPSK	1	40	21.65	21.64	21.68	21.68	23.5	0		
10 QPSK	25	0	20.59	20.69	20.60	20.60	22.5	1		
10 QPSK	25	12	20.64	20.65	20.60	20.60	22.5	1		
10 QPSK	25	25	20.63	20.71	20.65	20.65	22.5	1		
10 QPSK	50	0	20.55	20.67	20.58	20.58	22.5	1		
10 QPSK	50	0	18.54	18.65	18.70	18.70	20.5	3		
10 QPSK	1	25	18.61	18.68	18.57	18.57	20.5	3		
10 QPSK	1	40	18.66	18.63	18.70	18.70	20.5	3		
10 QPSK	25	0	18.71	18.72	18.65	18.65	20.5	3		
10 QPSK	25	12	18.62	18.70	18.71	18.71	20.5	3		
10 QPSK	25	25	18.60	18.66	18.63	18.63	20.5	3		
10 QPSK	50	0	18.57	18.67	18.65	18.65	20.5	3		
10 QPSK	50	0	18.57	18.67	18.65	18.65	20.5	3		
10 QPSK	1	24	18.76	18.60	18.66	18.66	20.5	3		
10 QPSK	12	0	18.70	18.70	18.65	18.65	20.5	3		
10 QPSK	12	7	18.59	18.71	18.61	18.61	20.5	3		
10 QPSK	12	13	18.60	18.70	18.65	18.65	20.5	3		
10 QPSK	25	0	18.59	18.73	18.67	18.67	20.5	3		
Channel										
Frequency (MHz)	18975	18980	19000	19000	19000	19000				
5 QPSK	1	0	21.50	21.62	21.73	21.73	23.5	0		
5 QPSK	1	8	21.54	21.58	21.73	21.73	23.5	0		
5 QPSK	1	14	21.62	21.77	21.62	21.62	23.5	0		
5 QPSK	8	0	21.55	21.71	21.60	21.60	23.5	0		
5 QPSK	8	4	21.54	21.62	21.64	21.64	23.5	0		
5 QPSK	8	7	21.54	21.59	21.61	21.61	23.5	0		
5 QPSK	15	0	21.55	21.66	21.64	21.64	23.5	0		
5 QPSK	1	0	21.62	21.72	21.65	21.65	23.5	0		
5 QPSK	1	8	21.52	21.71	21.60	21.60	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74	21.67	21.67	23.5	0		
5 QPSK	1	8	21.58	21.73	21.63	21.63	23.5	0		
5 QPSK	14	0	21.56	21.68	21.60	21.60	23.5	0		
5 QPSK	1	0	21.57	21.74						

Band 25 Modem C Ant2													
BW (MHz)	Modem Ant	RB State	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-out (sec)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	21.72	21.65	21.71	23.5	0					
20	QPSK	1	48	21.61	21.74	21.63		0					
20	QPSK	1	96	21.68	21.76	21.66		0					
20	QPSK	50	0	21.61	21.77	21.63	23.5	0					
20	QPSK	50	24	21.60	21.73	21.73		0					
20	QPSK	50	50	21.62	21.69	21.69		0					
20	QPSK	100	0	21.60	21.75	21.72	23.5	0					
20	QPSK	100	0	21.69	21.73	21.70		0					
20	QPSK	100	1	21.62	21.78	21.69		0					
20	HQAM	1	48	21.62	21.78	21.69	23.5	0					
20	HQAM	1	96	21.69	21.77	21.69		0					
20	HQAM	50	0	21.67	21.69	21.69		0					
20	HQAM	50	24	20.98	20.75	20.72	22.5	1					
20	HQAM	50	50	20.72	20.80	20.72		0					
20	HQAM	100	0	20.66	20.71	20.74		0					
20	SSQAM	1	96	19.72	19.68	19.78	20.5	3					
20	SSQAM	50	0	19.68	19.67	19.67		0					
20	SSQAM	50	24	19.76	19.81	19.75		0					
20	SSQAM	50	50	19.77	19.77	19.73	20.5	3					
20	SSQAM	100	0	19.69	19.74	19.74		0					
20	SSQAM	100	0	19.69	19.74	19.74		0					
Channel													
Frequency (MHz)													
16	QPSK	1	0	21.72	21.76	21.69	23.5	0					
16	QPSK	1	37	21.63	21.76	21.68		0					
16	QPSK	1	74	21.64	21.73	21.62		0					
16	QPSK	36	0	21.57	21.71	21.58	23.5	0					
16	QPSK	36	20	21.58	21.64	21.64		0					
16	QPSK	36	36	21.58	21.69	21.69		0					
16	QPSK	75	0	21.69	21.75	21.66	23.5	0					
16	QPSK	75	0	21.69	21.64	21.59		0					
16	HQAM	1	37	21.58	21.69	21.59		0					
16	HQAM	1	74	21.61	21.74	21.62	23.5	0					
16	HQAM	36	0	20.51	20.66	20.63		0					
16	HQAM	36	20	20.58	20.63	20.66		0					
16	HQAM	36	36	20.58	20.77	20.64	22.5	1					
16	HQAM	75	0	20.62	20.64	20.72		0					
16	HQAM	75	0	19.68	19.65	19.65		0					
16	SSQAM	1	37	19.72	19.77	19.68	20.5	3					
16	SSQAM	1	74	19.66	19.67	19.73		0					
16	SSQAM	36	0	19.68	19.72	19.68		0					
16	SSQAM	36	20	19.69	19.76	19.71	20.5	3					
16	SSQAM	36	36	19.75	19.69	19.62		0					
16	SSQAM	75	0	19.63	19.63	19.63		0					
Channel													
Frequency (MHz)													
16	QPSK	1	0	21.71	21.73	21.69	23.5	0					
16	QPSK	1	12	21.67	21.71	21.63		0					
16	QPSK	1	24	21.68	21.70	21.68		0					
16	QPSK	12	0	21.59	21.71	21.60	23.5	0					
16	QPSK	12	7	21.54	21.61	21.65		0					
16	QPSK	12	13	21.61	21.68	21.63		0					
16	QPSK	25	0	21.57	21.67	21.63	23.5	0					
16	HQAM	1	0	21.57	21.68	21.59		0					
16	HQAM	1	12	21.58	21.78	21.64		0					
16	HQAM	1	24	21.65	21.74	21.60	23.5	0					
16	HQAM	12	0	21.63	21.74	21.58		0					
16	HQAM	12	7	21.66	21.68	21.70		0					
16	HQAM	12	13	21.68	21.58	21.62	23.5	0					
16	HQAM	25	0	21.55	21.68	21.74		0					
16	HQAM	25	0	21.57	21.71	21.65		0					
16	HQAM	1	12	21.68	21.68	21.62	23.5	0					
16	HQAM	1	12	21.68	21.68	21.62		0					
16	HQAM	1	24	21.62	21.71	21.58		0					
16	HQAM	12	0	20.59	20.76	20.62	22.5	1					
16	HQAM	12	7	20.68	20.68	20.62		0					
16	HQAM	12	13	20.69	20.79	20.66		0					
16	HQAM	25	0	20.58	20.63	20.71	22.5	1					
16	SSQAM	1	0	19.67	19.69	19.75		0					
16	SSQAM	1	12	19.67	19.76	19.67		0					
16	SSQAM	1	24	19.69	19.57	19.73	20.5	3					
16	SSQAM	12	0	19.69	19.76	19.63		0					
16	SSQAM	12	0	19.69	19.76	19.63		0					
16	SSQAM	12	13	19.74	19.67	19.62	20.5	3					
16	SSQAM	25	0	19.61	19.68	19.62		0					
16	SSQAM	25	0	19.61	19.68	19.62		0					
Channel													
Frequency (MHz)													
3	QPSK	1	0	21.73	21.77	21.71	23.5	0					
3	QPSK	1	14	21.69	21.74	21.62		0					
3	QPSK	1	14	21.69	21.74	21.70		0					
3	QPSK	8	0	21.58	21.67	21.60	23.5	0					
3	QPSK	8	4	21.62	21.72	21.60		0					
3	QPSK	8	7	21.59	21.63	21.61		0					
3	QPSK	16	0	21.59	21.71	21.64	23.5	0					
3	QPSK	16	0	21.66	21.76	21.59		0					
3	HQAM	1	8	21.59	21.70	21.65		0					
3	HQAM	1	8	21.59	21.63	21.68	23.5	0					
3	HQAM	1	8	21.62	21.66	21.62		0					
3	HQAM	14	0	21.63	21.77	21.64		0					
3	HQAM	8	4	20.58	20.66	20.65	22.5	1					
3	SSQAM	1	0	19.62	19.61	19.70		0					
3	SSQAM	1	8	19.71	19.69	19.67		0					
3	SSQAM	1	14	19.72	19.62	19.70	20.5	3					
3	SSQAM	8	4	19.67	19.75	19.67		0					
3	SSQAM	8	4	19.71	19.73	19.73		0					
3	SSQAM	8	7	19.67	19.69	19.71	20.5	3					
3	SSQAM	8	7	19.67	19.69	19.71		0					
3	SSQAM	8	7	19.67	19.69	19.71		0					
Channel													
Frequency (MHz)													
1.4	QPSK	1	0	21.71	21.77	21.74	23.5	0					
1.4	QPSK	1	1	21.71	21.71	21.66		0					
1.4	QPSK	1	5	21.69	21.68	21.65		0					
1.4	QPSK	3	0	21.66	21.76	21.69	23.5	0					
1.4	QPSK	3	3	21.65	21.65	21.60		0					
1.4	QPSK	3	3	21.60	21.63	21.58		0					
1.4	HQAM	1	0	21.72	21.77	21.67	23.5	0					
1.4	HQAM	1	3	21.67	21.67	21.67		0					
1.4	HQAM	3	1	21.64	21.63	21.63		0					
1.4	HQAM	3	1	21.61	21.71	21.68	23.5	0					
1.4	HQAM	3	1	21.64	21.74	21.68		0					
1.4	HQAM	6	0	21.68	21.72	21.68		0					
1.4	HQAM	1	3	21.61	21.72	21.67	23.5	0					
1.4	HQAM	1	3	21.68	21.74	21.72		0					
1.4	HQAM	1	5	21.68	21.62	21.74		0					
1.4	HQAM	3	0	21.69	21.64	21.76	23.5	0					
1.4	HQAM	3	0	21.68	21.74	21.68		0					
1.4	HQAM	3	3	21.63	21.73	21.68		0					
1.4	SSQAM	1	3	20.68	20.73	20.63	22.5	1					
1.4	SSQAM	1	3	19.69	19.68	19.61		0					
1.4	SSQAM	3	1	19.62	19.72	19.66		0					
1.4	SSQAM	3	1	19.62	19.62	19.68	20.5	3					
1.4	SSQAM	3	0	19.68	19.61	19.65		0					
1.4	SSQAM	3	1	19.68	19.74	19.68		0					
1.4	SSQAM	3	3	19.67	19.67	19.67	20.5	3					
1.4	SSQAM	3	3	19.68	19.62	19.61		0					
1.4	SSQAM	3	3	19.68	19.62	19.61		0					

PC3 Band 42 Modem C Ant2										
BW [MHz]	Modulat ion	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	42590	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	22.21	22.13	22.11	23.5	0		
20	QPSK	1	49	22.13	22.05	22.06				
20	QPSK	1	99	22.15	22.05	22.03				
20	QPSK	50	0	22.12	22.01	22.05	23.5	0		
20	QPSK	50	24	22.11	22.08	22.07				
20	QPSK	50	50	22.10	22.05	22.02				
20	QPSK	100	0	22.16	22.03	22.03	23.5	0		
20	16QAM	1	0	22.17	22.08	22.01				
20	16QAM	1	49	22.14	22.03	22.06				
20	16QAM	1	99	22.13	22.05	21.99	23	0.5		
20	16QAM	50	0	22.14	22.02	22.01				
20	16QAM	50	24	22.17	22.07	22.02				
20	16QAM	50	50	22.15	22.09	22.06	22	1.5		
20	16QAM	100	0	22.10	22.01	21.92				
20	64QAM	1	0	22.15	22.04	22.04				
20	64QAM	1	49	22.12	22.07	22.05	23	0.5		
20	64QAM	1	99	22.15	22.03	22.03				
20	64QAM	50	0	21.13	21.02	21.04				
20	64QAM	50	24	21.15	21.06	21.06	22	1.5		
20	64QAM	50	50	21.10	21.09	21.02				
20	64QAM	100	0	21.13	21.06	20.99				
20	256QAM	1	0	19.08	19.10	19.04	20	3.5		
20	256QAM	1	49	19.07	19.12	19.01				
20	256QAM	1	99	19.05	19.12	19.01				
20	256QAM	50	0	19.08	19.15	19.02	20	3.5		
20	256QAM	50	24	19.03	19.11	19.05				
20	256QAM	50	50	19.06	19.15	19.01				
20	256QAM	100	0	19.01	19.11	19.03		MPR (dB)		
Channel				42165	42590	43015				
Frequency (MHz)				3457.5	3500	3542.5				
15	QPSK	1	0	22.16	22.07	22.00	23.5	0		
15	QPSK	1	37	22.11	22.07	22.00				
15	QPSK	1	74	22.13	22.04	22.03				
15	QPSK	36	0	22.08	21.99	22.02	23.5	0		
15	QPSK	36	20	22.04	22.00	21.95				
15	QPSK	36	39	22.02	22.02	21.90				
15	QPSK	75	0	22.11	22.00	21.96	23.5	0		
15	16QAM	1	0	22.09	22.00	21.99				
15	16QAM	1	37	22.03	21.98	22.01				
15	16QAM	1	74	22.01	21.94	21.94	23	0.5		
15	16QAM	36	0	22.03	21.95	21.91				
15	16QAM	36	20	22.06	21.99	21.99				
15	16QAM	36	39	22.12	22.04	21.96	22	1.5		
15	16QAM	75	0	22.07	21.91	22.02				
15	64QAM	1	0	22.13	21.94	22.03				
15	64QAM	1	37	22.07	22.01	21.96	23	0.5		
15	64QAM	1	74	22.13	22.01	21.99				
15	64QAM	36	0	21.10	20.90	20.92				
15	64QAM	36	20	21.09	21.01	21.00	22	1.5		
15	64QAM	36	39	21.04	21.06	20.97				
15	64QAM	75	0	21.09	20.95	20.93				
15	256QAM	1	0	18.97	18.97	18.93	20	3.5		
15	256QAM	1	37	19.06	18.99	18.99				
15	256QAM	1	74	18.95	19.08	18.95				
15	256QAM	36	0	18.96	19.03	18.92	20	3.5		
15	256QAM	36	20	18.90	18.99	18.99				
15	256QAM	36	39	19.03	19.09	18.94				
15	256QAM	75	0	18.98	19.05	18.96		MPR (dB)		
Channel				42140	42590	43040				
Frequency (MHz)				3455	3500	3545				
10	QPSK	1	0	22.10	22.10	22.00	23.5	0		
10	QPSK	1	25	22.15	22.15	22.00				
10	QPSK	1	49	22.15	22.15	22.06				
10	QPSK	25	0	22.06	21.89	22.00	23.5	0		
10	QPSK	25	12	22.00	21.99	21.96				
10	QPSK	25	25	22.01	21.92	21.98				
10	QPSK	50	0	22.04	21.98	21.91	23.5	0		
10	16QAM	1	0	22.05	22.02	21.93				
10	16QAM	1	25	22.11	21.96	21.98				
10	16QAM	1	49	22.09	22.03	21.96	23	0.5		
10	16QAM	25	0	22.13	21.98	21.99				
10	16QAM	25	12	22.16	21.99	22.00				
10	16QAM	25	25	22.02	21.97	21.96	22	1.5		
10	16QAM	50	0	21.97	21.94	21.99				
10	64QAM	1	0	22.08	21.94	21.98				
10	64QAM	1	25	21.99	22.02	22.04	23	0.5		
10	64QAM	1	49	22.13	21.93	21.96				
10	64QAM	25	0	21.91	20.91	20.93				
10	64QAM	25	12	21.10	20.93	20.96	22	1.5		
10	64QAM	25	25	21.07	20.98	20.99				
10	64QAM	50	0	21.06	20.94	20.91				
10	256QAM	1	0	18.95	19.02	19.01	20	3.5		
10	256QAM	1	25	19.03	19.07	18.95				
10	256QAM	1	49	19.02	19.00	18.95				
10	256QAM	25	0	19.00	19.02	18.98	20	3.5		
10	256QAM	25	12	18.92	19.04	18.93				
10	256QAM	25	25	19.00	19.09	18.93				
10	256QAM	50	0	18.93	19.08	18.90		MPR (dB)		
Channel				42115	42590	43065				
Frequency (MHz)				3452.5	3500	3547.5				
5	QPSK	1	0	22.16	22.06	22.02	23.5	0		
5	QPSK	1	12	22.11	22.05	22.00				
5	QPSK	1	24	22.14	22.03	22.04				
5	QPSK	12	0	22.08	21.98	21.97	23.5	0		
5	QPSK	12	7	22.10	21.97	21.99				
5	QPSK	12	13	22.08	21.96	21.96				
5	QPSK	25	0	22.13	21.99	21.94	23.5	0		
5	16QAM	1	0	22.14	21.97	21.90				
5	16QAM	1	12	22.03	21.94	21.94				
5	16QAM	1	24	22.05	22.01	21.89	23	0.5		
5	16QAM	12	0	22.04	21.98	21.88				
5	16QAM	12	7	22.12	22.01	21.94				
5	16QAM	12	13	22.03	22.02	22.01	22	1.5		
5	16QAM	25	0	22.03	21.90	21.93				
5	64QAM	1	0	22.04	21.96	21.92				
5	64QAM	1	12	22.07	21.96	21.99	23	0.5		
5	64QAM	1	24	22.02	22.01	21.93				
5	64QAM	12	0	21.99	20.92	20.99				
5	64QAM	12	7	21.12	21.00	21.04	22	1.5		
5	64QAM	12	13	21.03	21.06	20.95				
5	64QAM	25	0	21.08	21.01	20.90				
5	256QAM	1	0	19.03	19.09	18.97	20	3.5		
5	256QAM	1	12	18.98	19.09	18.96				
5	256QAM	1	24	18.97	19.06	18.91				
5	256QAM	12	0	19.04	19.09	19.00	20	3.5		
5	256QAM	12	7	18.95	19.04	19.03				
5	256QAM	12	13	18.98	19.05	18.94				
5	256QAM	25	0	18.95	19.09	18.90		MPR (dB)		
Channel				42115	42590	43065				
Frequency (MHz)				3452.5	3500	3547.5				

Band 48 Modem C Ant2													
BW [MHz]	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				55340	55830	56150	56640	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3560	3609	3641	3690						
20	QPSK	1	0	14.98	14.99	14.84	14.54	16.5	0				
20	QPSK	1	49	14.93	14.91	14.87	14.64						
20	QPSK	1	99	14.89	14.87	14.89	14.57						
20	QPSK	50	0	14.90	14.93	14.78	14.67						
20	QPSK	50	24	14.87	14.85	14.78	14.55	16.5	0				
20	QPSK	50	50	14.80	14.79	14.81	14.58						
20	QPSK	100	0	14.87	14.93	14.80	14.63						
20	16QAM	1	0	14.85	14.81	14.80	14.56						
20	16QAM	1	49	14.82	14.76	14.84	14.59	16.5	0				
20	16QAM	1	99	14.82	14.85	14.81	14.56						
20	16QAM	50	0	14.94	14.88	14.80	14.57						
20	16QAM	100	0	14.84	14.83	14.83	14.53						
20	64QAM	1	0	14.80	14.76	14.76	14.51	16.5	0				
20	64QAM	1	49	14.88	14.93	14.75	14.64						
20	64QAM	1	99	14.88	14.81	14.79	14.58						
20	64QAM	50	0	14.78	14.81	14.80	14.58						
20	64QAM	50	24	14.86	14.91	14.79	14.54	16.5	0				
20	64QAM	50	50	14.82	14.81	14.77	14.56						
20	64QAM	100	0	14.80	14.76	14.77	14.59						
20	256QAM	1	0	14.88	14.92	14.76	14.63						
20	256QAM	1	49	14.82	14.80	14.79	14.52	16.5	0				
20	256QAM	1	99	14.81	14.77	14.81	14.58						
20	256QAM	50	0	14.93	14.91	14.75	14.57						
20	256QAM	50	24	14.92	14.88	14.74	14.57						
20	256QAM	50	50	14.83	14.81	14.83	14.53	16.5	0				
20	256QAM	100	0	14.79	14.77	14.82	14.56						
Channel				55315	55820	56160	56665				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.5	3608	3642	3692.5						
15	QPSK	1	0	14.87	14.91	14.78	14.65	16.5	0				
15	QPSK	1	37	14.85	14.81	14.81	14.54						
15	QPSK	1	74	14.79	14.79	14.77	14.52						
15	QPSK	36	0	14.85	14.84	14.70	14.56						
15	QPSK	36	20	14.82	14.75	14.67	14.59	16.5	0				
15	QPSK	36	39	14.68	14.70	14.76	14.53						
15	QPSK	75	0	14.80	14.88	14.74	14.59						
15	16QAM	1	0	14.76	14.76	14.72	14.65						
15	16QAM	1	37	14.72	14.67	14.67	14.59	16.5	0				
15	16QAM	1	74	14.87	14.89	14.68	14.64						
15	16QAM	36	0	14.78	14.77	14.74	14.59						
15	16QAM	36	20	14.74	14.69	14.70	14.59						
15	16QAM	36	39	14.85	14.83	14.75	14.52	16.5	0				
15	16QAM	75	0	14.73	14.73	14.73	14.66						
15	64QAM	1	0	14.72	14.65	14.73	14.65						
15	64QAM	1	37	14.84	14.85	14.68	14.57						
15	64QAM	1	74	14.83	14.73	14.73	14.59	16.5	0				
15	64QAM	36	0	14.66	14.70	14.71	14.53						
15	64QAM	36	20	14.78	14.83	14.69	14.56						
15	64QAM	36	39	14.75	14.74	14.73	14.57						
15	64QAM	75	0	14.71	14.70	14.65	14.58	16.5	0				
15	256QAM	1	0	14.83	14.83	14.65	14.55						
15	256QAM	1	37	14.73	14.69	14.68	14.56						
15	256QAM	1	74	14.72	14.70	14.70	14.58						
15	256QAM	36	0	14.81	14.84	14.69	14.52	16.5	0				
15	256QAM	36	20	14.84	14.82	14.82	14.53						
15	256QAM	36	39	14.76	14.74	14.79	14.58						
15	256QAM	75	0	14.73	14.67	14.77	14.65						
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3596	3607.5	3642.5	3695						
10	QPSK	1	0	14.90	14.93	14.75	14.64	16.5	0				
10	QPSK	1	25	14.87	14.86	14.81	14.54						
10	QPSK	1	49	14.84	14.83	14.85	14.67						
10	QPSK	25	0	14.83	14.85	14.72	14.56						
10	QPSK	25	12	14.76	14.81	14.72	14.66	16.5	0				
10	QPSK	25	25	14.74	14.70	14.69	14.66						
10	QPSK	50	0	14.79	14.86	14.75	14.52						
10	16QAM	1	0	14.74	14.71	14.69	14.51						
10	16QAM	1	25	14.72	14.71	14.76	14.58	16.5	0				
10	16QAM	1	49	14.84	14.88	14.66	14.58						
10	16QAM	25	0	14.81	14.78	14.75	14.50						
10	16QAM	25	12	14.71	14.72	14.69	14.56						
10	16QAM	25	25	14.86	14.80	14.70	14.50	16.5	0				
10	16QAM	50	0	14.79	14.72	14.78	14.66						
10	64QAM	1	0	14.76	14.65	14.76	14.64						
10	64QAM	1	25	14.80	14.85	14.69	14.60						
10	64QAM	1	49	14.79	14.73	14.73	14.52	16.5	0				
10	64QAM	25	0	14.73	14.75	14.73	14.58						
10	64QAM	25	12	14.76	14.86	14.71	14.54						
10	64QAM	25	25	14.70	14.75	14.68	14.50						
10	64QAM	50	0	14.75	14.66	14.67	14.50	16.5	0				
10	256QAM	1	0	14.77	14.83	14.71	14.52						
10	256QAM	1	25	14.73	14.72	14.67	14.60						
10	256QAM	1	49	14.73	14.66	14.77	14.56						
10	256QAM	25	0	14.84	14.86	14.68	14.50	16.5	0				
10	256QAM	25	12	14.84	14.83	14.68	14.51						
10	256QAM	25	25	14.76	14.75	14.73	14.59						
10	256QAM	50	0	14.71	14.66	14.74	14.50						
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3592.5	3607	3643	3697.5						
5	QPSK	1	0	14.93	14.92	14.78	14.57	16.5	0				
5	QPSK	1	12	14.88	14.82	14.76	14.57						
5	QPSK	1	24	14.83	14.78	14.80	14.59						
5	QPSK	12	0	14.80	14.84	14.72	14.60						
5	QPSK	12	7	14.76	14.81	14.73	14.59	16.5	0				
5	QPSK	12	13	14.75	14.71	14.74	14.59						
5	QPSK	25	0	14.83	14.86	14.72	14.54						
5	16QAM	1	0	14.76	14.74	14.72	14.56						
5	16QAM	1	12	14.75	14.70	14.79	14.58	16.5	0				
5	16QAM	1	24	14.83	14.84	14.68	14.56						
5	16QAM	12	0	14.76	14.80	14.71	14.57						
5	16QAM	12	7	14.77	14.73	14.72	14.58						
5	16QAM	12	13	14.89	14.84	14.71	14.53	16.5	0				
5	16QAM	25	0	14.78	14.78	14.78	14.55						
5	16QAM	25	12	14.73	14.84	14.77	14.62						
5	16QAM	25	25	14.83	14.89	14.69	14.57						
5	64QAM	1	0	14.77	14.75	14.72	14.57	16.5	0				
5	64QAM	1	24	14.77	14.75	14.72	14.57						
5	64QAM	12	0	14.71	14.73	14.70	14.50						
5	64QAM	12	7	14.79	14.86	14.72	14.56						
5	64QAM	12	13	14.71	14.67	14.69	14.50	16.5	0				
5	64QAM	25	0	14.71	14.67	14.70	14.51						
5	256QAM	1	0	14.83	14.83	14.66	14.54						
5	256QAM	1	12	14.73	14.73	14.68	14.64						
5	256QAM	1	24	14.75	14.69	14.74	14.58	16.5	0				
5	256QAM	12	0	14.81	14.80	14.65	14.52						
5	256QAM	12	12	14.82	14.76	14.69	14.53						
5	256QAM	12	13	14.73	14.75	14.79	14.59						
5	256QAM	25	0	14.72	14.69	14.74	14.51	16.5	0				

	WCDMA II Modem D Ant0				Tune-up Limit (dBm)	WCDMA IV Modem D Ant0				Tune-up Limit (dBm)	WCDMA V Modem D Ant0				Tune-up Limit (dBm)
	Band	WCDMA II	WCDMA II	WCDMA II		Band	WCDMA IV	WCDMA IV	WCDMA IV		Band	WCDMA V	WCDMA V	WCDMA V	
Tx Channel	5262	9400	9538		1312	1413	1513		4132	4182	4233				
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458				
Frequency (MHz)	1852.4	1860	1867.6		1742.4	1752.4	1762.4		2644	2644	2644				
3GPP Rel 99	HS-SS Subtest-1	22.17	22.28	22.13	24.50	19.29	19.33	19.28	20.50	23.47	23.54	23.52	24.50		
3GPP Rel 6	HS-DS-SS Subtest-1	22.21	22.27	22.13	23.50	18.18	18.28	18.17	19.50	22.52	22.56	22.49	23.50		
3GPP Rel 6	HS-DS-SS Subtest-2	22.19	22.23	22.18	23.50	18.13	18.30	18.15	19.50	22.51	22.51	22.55	23.50		
3GPP Rel 6	HS-DS-SS Subtest-3	21.69	21.74	21.60	23.00	17.86	17.76	17.59	19.00	21.95	22.02	22.07	23.00		
3GPP Rel 6	HS-DS-SS Subtest-4	21.69	21.73	21.63	23.00	17.63	17.78	17.60	19.00	21.94	22.00	21.98	23.00		
3GPP Rel 6	DC-HS-SS Subtest-1	22.17	22.31	22.09	23.50	18.17	18.26	18.16	19.50	22.50	22.52	22.49	23.50		
3GPP Rel 6	DC-HS-SS Subtest-2	22.20	22.33	22.18	23.50	18.16	18.25	18.10	19.50	22.45	22.50	22.53	23.50		
3GPP Rel 6	DC-HS-SS Subtest-3	21.69	21.78	21.61	23.00	17.69	17.77	17.61	19.00	21.96	22.00	22.06	23.00		
3GPP Rel 6	DC-HS-SS Subtest-4	21.71	21.79	21.67	23.00	17.63	17.82	17.62	19.00	21.94	22.01	21.99	23.00		
3GPP Rel 6	HS-UPA Subtest-1	22.14	22.28	22.11	23.50	18.14	18.30	18.14	19.50	22.47	22.57	22.49	23.50		
3GPP Rel 6	HS-UPA Subtest-2	20.70	20.83	20.60	21.50	16.69	16.78	16.65	17.50	20.48	20.56	20.53	21.50		
3GPP Rel 6	HS-UPA Subtest-3	21.18	21.26	21.08	22.50	17.19	17.30	17.17	18.50	21.42	21.56	21.48	22.50		
3GPP Rel 6	HS-UPA Subtest-4	20.64	20.79	20.65	21.50	16.70	16.78	16.63	17.50	20.49	20.53	20.55	21.50		
3GPP Rel 6	HS-UPA Subtest-5	22.14	22.30	22.16	23.50	18.20	18.26	18.16	19.50	22.46	22.58	22.53	23.50		
3GPP Rel 7	HS-PA+ (16QAM) Subtest-1	20.20	20.32	20.13	21.00	16.21	16.27	16.16	17.00	20.70	20.83	20.59	21.00		

Band 2 Modem D Ant0																		
RF Freq (MHz)	Modem ID	RF Size (mm)	RF Offset	Power Low Ch / Freq.	Power Mod Ch / Freq.	Power High Ch / Freq.	Turn-on time (secs)	APR (dB)										
Channel																		
Frequency (MHz)																		
20	OPRK	1	0	21.84	21.78	21.74			23.5	0								
20	OPRK	1	49	21.88	21.68	21.64												
20	OPRK	1	99	21.82	21.76	21.67			23.5	0								
20	OPRK	50	0	21.84	21.70	21.54												
20	OPRK	50	24	21.84	21.67	21.52			23.5	0								
20	OPRK	50	50	21.50	21.57	21.54												
20	OPRK	100	0	21.62	21.68	21.51			23.5	0								
20	HOQM	1	0	21.84	21.68	21.62												
20	HOQM	1	49	21.86	21.67	21.57			23.5	0								
20	HOQM	1	99	21.88	21.73	21.73												
20	HOQM	50	0	21.58	21.71	21.72			23.5	0								
20	HOQM	50	24	21.59	21.76	21.65												
20	HOQM	50	50	21.67	21.71	21.72			23.5	0								
20	HOQM	100	0	21.69	21.76	21.65												
20	HOQM	1	0	21.54	21.70	21.72			23.5	0								
20	HOQM	1	49	21.58	21.70	21.72												
20	HOQM	1	99	21.86	21.70	21.68			23.5	1								
20	HOQM	50	0	20.55	20.70	20.73												
20	HOQM	50	24	20.94	20.70	20.73			22.5	1								
20	HOQM	50	50	20.63	20.73	20.63												
20	HOQM	100	0	20.59	20.76	20.75			20.5	3								
20	HOQM	1	0	19.57	19.71	19.66												
20	HOQM	1	49	19.59	19.70	19.68			20.5	3								
20	HOQM	1	99	19.63	19.74	19.67												
20	HOQM	50	0	19.59	19.73	19.69			20.5	3								
20	HOQM	50	24	19.63	19.63	19.63												
20	HOQM	50	50	19.67	19.77	19.66			20.5	3								
20	HOQM	100	0	19.67	19.77	19.66												
Channel																		
Frequency (MHz)																		
18	OPRK	1	0	21.54	21.68	21.62			23.5	0								
18	OPRK	1	37	21.61	21.60	21.54												
18	OPRK	1	74	21.62	21.62	21.61			23.5	0								
18	OPRK	36	0	21.30	21.65	21.51												
18	OPRK	36	25	21.63	21.67	21.68			23.5	0								
18	OPRK	36	39	21.53	21.60	21.57												
18	OPRK	75	0	21.61	21.69	21.61			23.5	0								
18	HOQM	1	0	21.66	21.66	21.69												
18	HOQM	1	37	21.58	21.62	21.50			23.5	0								
18	HOQM	1	74	21.61	21.61	21.61												
18	HOQM	36	0	21.54	21.69	21.69			23.5	0								
18	HOQM	36	25	21.56	21.57	21.61												
18	HOQM	36	39	21.56	21.57	21.61			23.5	0								
18	HOQM	75	0	21.53	21.70	21.59												
18	HOQM	1	0	21.55	21.71	21.65			23.5	0								
18	HOQM	1	37	21.61	21.67	21.71												
18	HOQM	1	74	21.52	21.63	21.67			23.5	1								
18	HOQM	36	0	20.59	20.75	20.69												
18	HOQM	36	25	20.54	20.70	20.68			22.5	1								
18	HOQM	36	39	20.55	20.65	20.55												
18	HOQM	75	0	20.54	20.69	20.71			20.5	3								
18	HOQM	1	0	19.46	19.61	19.56												
18	HOQM	1	37	19.52	19.55	19.61			20.5	3								
18	HOQM	1	74	19.58	19.67	19.58												
18	HOQM	36	0	19.46	19.74	19.62			20.5	3								
18	HOQM	36	25	19.59	19.75	19.71												
18	HOQM	36	39	19.61	19.72	19.70			20.5	3								
18	HOQM	75	0	19.49	19.62	19.60												
Channel																		
Frequency (MHz)																		
16	OPRK	1	0	21.54	21.61	21.59			23.5	0								
16	OPRK	1	25	21.53	21.63	21.60												
16	OPRK	1	49	21.54	21.61	21.59			23.5	0								
16	OPRK	25	0	21.56	21.61	21.57												
16	OPRK	25	12	21.60	21.63	21.60			23.5	0								
16	OPRK	25	25	21.49	21.60	21.54												
16	OPRK	36	0	21.59	21.69	21.66			23.5	0								
16	HOQM	1	0	21.60	21.69	21.63												
16	HOQM	1	25	21.49	21.57	21.54			23.5	0								
16	HOQM	1	49	21.58	21.67	21.64												
16	HOQM	25	0	21.56	21.70	21.69			23.5	0								
16	HOQM	25	12	21.57	21.59	21.58												
16	HOQM	25	25	21.60	21.71	21.66			23.5	0								
16	HOQM	50	0	21.53	21.71	21.69												
16	HOQM	50	0	21.56	21.73	21.69			23.5	0								
16	HOQM	1	0	21.57	21.65	21.65												
16	HOQM	1	49	21.52	21.64	21.63			22.5	1								
16	HOQM	25	0	20.49	20.70	20.60												
16	HOQM	25	12	20.46	20.68	20.62			22.5	1								
16	HOQM	25	25	20.56	20.67	20.67												
16	HOQM	50	0	20.62	20.74	20.72			20.5	3								
16	HOQM	1	0	19.50	19.63	19.67												
16	HOQM	1	25	19.57	19.63	19.67			20.5	3								
16	HOQM	1	49	19.57	19.63	19.67												
16	HOQM	25	0	19.49	19.72	19.68			20.5	3								
16	HOQM	25	12	19.53	19.64	19.74												
16	HOQM	25	25	19.61	19.70	19.67			20.5	3								
16	HOQM	50	0	19.50	19.62	19.67												
Channel																		
Frequency (MHz)																		
14	OPRK	1	0	21.54	21.61	21.57			23.5	0								
14	OPRK	1	14	21.54	21.62	21.60												
14	OPRK	8	0	21.46	21.74	21.58			23.5	0								
14	OPRK	8	4	21.64	21.69	21.62												
14	OPRK	16	0	21.55	21.69	21.65			23.5	0								
14	OPRK	16	8	21.66	21.65	21.65												
14	HOQM	1	0	21.56	21.69	21.65			23.5	0								
14	HOQM	1	14	21.56	21.69	21.65												
14	HOQM	8	0	21.57	21.68	21.74			23.5	0								
14	HOQM	8	7	21.70	21.65	21.72												
14	HOQM	16	0	21.55	21.71	21.63			23.5	0								
14	HOQM	16	8	21.67	21.68	21.71												
14	HOQM	1	0	21.54	21.69	21.70			23.5	0								
14	HOQM	1	14	21.54	21.69	21.68												
14	HOQM	8	0	20.56	20.69	20.71			22.5	1								
14	HOQM	8	4	20.66	20.69	20.71												
14	HOQM	16	0	20.58	20.70	20.63			22.5	1								
14	HOQM	16	8	20.68	20.70	20.63												
14	HOQM	1	0	19.49	19.71	19.65			20.5	3								
14	HOQM	1	14	19.53	19.74	19.65												
14	HOQM	8	0	19.63	19.67	19.74			20.5	3								
14	HOQM	8	7	19.68	19.68	19.74												
14	HOQM	16	0	19.49	19.74	19.63			20.5	3								
14	HOQM	16	8	19.58	19.74	19.63												
14	HOQM	1	0	19.61	19.63	19.65			20.5	3								
14	HOQM	1	14	19.61	19.63	19.65												
Channel																		
Frequency (MHz)																		
14	OPRK	1	0	21.60	21.74	21.68			23.5	0								
14	OPRK	1	14	21.61	21.74	21.68												
14	OPRK	8	0	21.51	21.64	21.54			23.5	0								
14	OPRK	8	4	21.56	21.68	21.54												
14	OPRK	16	0	21.56	21.68	21.59			23.5	0								
14	OPRK	16	8	21.67	21.68	21.59												
14	HOQM	1	0	21.57	21.62	21.59			23.5	0								
14	HOQM	1	14	21.58	21.65	21.53												
14	HOQM	8	0	21.49	21.65	21.53			23.5	0								
14	HOQM	8	7	21.58	21.65	21.53												
14	HOQM	16	0	21.49	21.65	21.53			23.5	0								
14	HOQM	16	8	21.58	21.65	21.53												
14	HOQM	1	0	21.59	21.60	21.55			23.5	0								
14	HOQM	1	14	21.60	21.63	21.51												
14	HOQM	8	0	21.57	21.67	21.67			23.5	0								
14	HOQM	8	7	21.60	21.70	21.69												
14	HOQM	16	0	21.59	21.68	21.66			23.5	0								
14	HOQM	16	8	21.62	21.66	21.71												
14	HOQM	1	0	21.57	21.66	21.69			23.5	0								
14	HOQM	1	14	21.57	21.66	21.66												
14	HOQM	8	0	20.59	20.76	20.61			22.5	1								
14	HOQM	8	7	20.69	20.76	20.61												
14	HOQM	16	0	19.49	19.76	19.65			20.5	3								
14	HOQM	16	8	19.58	19.76	19.65												
14	HOQM	1	0	19.50	19.67	19.68			20.5	3								
14	HOQM	1	14	19.50	19.67	19.68												
14	HOQM	8	0	19.56	19.72	19.68			20.5	3								
14	HOQM	8	7	19.66	19.72	19.68												
14	HOQM	16	0	19.49	19.72	19.68			20.5	3								
14	HOQM	16	8	19.58	19.72	19.68					</							

Band 12 Modem D Ant0														
BW (MHz)	Modem	RB Size	RB Offset	Power Low Ch / Freq.	Power Modem Ch / Freq.	Power High Ch / Freq.	Turnup (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.61	23.67	23.64	24.5	0						
10	QPSK	1	25	23.68	23.64	23.64								
10	QPSK	1	49	23.63	23.66	23.64	23.5	1						
10	QPSK	25	0	22.53	22.54	22.63								
10	QPSK	25	12	22.56	22.59	22.54	23.5	1						
10	QPSK	25	25	22.53	22.59	22.62								
10	16QAM	1	0	22.51	22.59	22.58	23.5	1						
10	16QAM	1	25	22.59	22.63	22.54								
10	16QAM	1	49	22.57	22.63	22.54	22.5	2						
10	16QAM	25	0	21.56	21.63	21.61								
10	16QAM	25	12	21.58	21.56	21.62	22.5	2						
10	16QAM	25	25	21.60	21.66	21.59								
10	16QAM	50	0	21.52	21.59	21.63	22.5	2						
10	16QAM	1	0	21.59	21.57	21.57								
10	16QAM	1	25	21.59	21.65	21.57	21.5	3						
10	16QAM	1	49	21.58	21.67	21.59								
10	16QAM	25	12	20.53	20.66	20.60	19.5	3						
10	16QAM	25	25	20.59	20.59	20.58								
10	16QAM	50	0	20.51	20.65	20.60	19.5	5						
10	16QAM	1	0	18.52	18.65	18.56								
10	16QAM	1	25	18.51	18.58	18.57	19.5	5						
10	16QAM	1	49	18.55	18.59	18.58								
10	16QAM	25	0	18.52	18.61	18.57	19.5	5						
10	16QAM	25	12	18.58	18.64	18.65								
10	16QAM	25	25	18.52	18.61	18.63	19.5	5						
10	16QAM	50	0	18.54	18.56	18.60								
Channel														
Frequency (MHz)														
8	QPSK	1	0	23.65	23.56	23.53	24.5	0						
8	QPSK	1	24	23.62	23.65	23.61								
8	QPSK	1	12	23.47	23.59	23.42	23.5	1						
8	QPSK	12	0	22.45	22.48	22.52								
8	QPSK	12	7	22.44	22.54	22.47	23.5	1						
8	QPSK	12	13	22.47	22.51	22.55								
8	QPSK	25	0	22.51	22.53	22.44	23.5	1						
8	QPSK	1	0	22.42	22.50	22.45								
8	16QAM	1	12	22.55	22.63	22.44	22.5	2						
8	16QAM	1	24	22.53	22.54	22.43								
8	16QAM	12	0	21.50	21.54	21.56	22.5	2						
8	16QAM	12	7	21.45	21.52	21.55								
8	16QAM	12	13	21.52	21.51	21.57	22.5	2						
8	16QAM	25	0	21.46	21.51	21.47								
8	16QAM	1	0	21.47	21.50	21.49	22.5	2						
8	16QAM	1	24	21.51	21.43	21.45								
8	16QAM	12	0	20.45	20.58	20.49	21.5	3						
8	16QAM	12	7	20.45	20.56	20.52								
8	16QAM	12	13	20.52	20.53	20.54	19.5	5						
8	16QAM	25	0	20.45	20.57	20.54								
8	16QAM	1	0	18.46	18.54	18.47	19.5	5						
8	16QAM	1	12	18.39	18.54	18.53								
8	16QAM	1	24	18.47	18.52	18.51	19.5	5						
8	16QAM	12	0	18.45	18.53	18.52								
8	16QAM	12	7	18.48	18.59	18.51	19.5	5						
8	16QAM	12	13	18.42	18.53	18.47								
8	16QAM	25	0	18.48	18.51	18.48	19.5	5						
8	16QAM	1	0	18.45	18.51	18.48								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	23.41	23.39	23.32	24.5	0						
1.4	QPSK	1	3	23.48	23.55	23.42								
1.4	QPSK	1	14	23.47	23.55	23.44	23.5	1						
1.4	QPSK	8	0	22.42	22.47	22.54								
1.4	QPSK	8	4	22.45	22.54	22.46	23.5	1						
1.4	QPSK	8	7	22.43	22.55	22.50								
1.4	QPSK	16	0	22.47	22.53	22.49	23.5	1						
1.4	QPSK	1	0	22.42	22.52	22.51								
1.4	16QAM	1	8	22.50	22.59	22.48	22.5	2						
1.4	16QAM	1	14	22.51	22.54	22.49								
1.4	16QAM	8	0	21.47	21.54	21.53	22.5	2						
1.4	16QAM	8	4	21.44	21.45	21.57								
1.4	16QAM	8	7	21.53	21.50	21.52	22.5	2						
1.4	16QAM	16	0	21.42	21.50	21.57								
1.4	16QAM	1	0	21.50	21.49	21.47	22.5	2						
1.4	16QAM	1	8	21.48	21.40	21.48								
1.4	16QAM	1	14	21.48	21.51	21.55	21.5	3						
1.4	16QAM	8	0	20.47	20.58	20.50								
1.4	16QAM	8	4	20.46	20.58	20.52	19.5	5						
1.4	16QAM	8	7	20.47	20.49	20.48								
1.4	16QAM	16	0	20.46	20.55	20.49	19.5	5						
1.4	16QAM	1	0	18.42	18.53	18.47								
1.4	16QAM	1	8	18.44	18.54	18.47	19.5	5						
1.4	16QAM	1	14	18.46	18.47	18.49								
1.4	16QAM	8	0	18.45	18.53	18.52	19.5	5						
1.4	16QAM	8	4	18.50	18.58	18.45								
1.4	16QAM	8	7	18.45	18.50	18.42	19.5	5						
1.4	16QAM	16	0	18.45	18.51	18.48								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	23.41	23.39	23.32	24.5	0						
1.4	QPSK	1	3	23.48	23.55	23.42								
1.4	QPSK	1	14	23.47	23.55	23.44	23.5	1						
1.4	QPSK	8	0	22.42	22.47	22.54								
1.4	QPSK	8	4	22.45	22.54	22.46	23.5	1						
1.4	QPSK	8	7	22.43	22.55	22.50								
1.4	QPSK	16	0	22.47	22.53	22.49	23.5	1						
1.4	QPSK	1	0	22.42	22.52	22.51								
1.4	16QAM	1	8	22.50	22.59	22.48	22.5	2						
1.4	16QAM	1	14	22.51	22.54	22.49								
1.4	16QAM	8	0	21.47	21.54	21.49	22.5	2						
1.4	16QAM	8	4	21.44	21.45	21.57								
1.4	16QAM	8	7	21.53	21.50	21.52	22.5	2						
1.4	16QAM	16	0	21.42	21.50	21.57								
1.4	16QAM	1	0	21.50	21.49	21.47	22.5	2						
1.4	16QAM	1	8	21.48	21.40	21.48								
1.4	16QAM	1	14	21.48	21.51	21.51	21.5	3						
1.4	16QAM	8	0	20.48	20.61	20.48								
1.4	16QAM	8	4	20.48	20.57	20.48	19.5	5						
1.4	16QAM	8	7	20.49	20.50	20.52								
1.4	16QAM	16	0	20.49	20.50	20.52	19.5	5						
1.4	16QAM	1	0	18.45	18.56	18.48								
1.4	16QAM	1	8	18.46	18.52	18.48	19.5	5						
1.4	16QAM	1	14	18.49	18.49	18.50								
1.4	16QAM	8	0	18.49	18.58	18.48	19.5	5						
1.4	16QAM	8	4	18.54	18.62	18.48								
1.4	16QAM	8	7	18.49	18.58	18.48	19.5	5						
1.4	16QAM	16	0	18.49	18.58	18.48								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	23.41	23.39	23.32	24.5	0						
1.4	QPSK	1	3	23.48	23.55	23.42								
1.4	QPSK	1	14	23.47	23.55	23.44	23.5	1						
1.4	QPSK	8	0	22.42	22.47	22.54								
1.4	QPSK	8	4	22.45	22.54	22.46	23.5	1						
1.4	QPSK	8	7	22.43	22.55	22.50								
1.4	QPSK	16	0	22.47	22.53	22.49	23.5	1						
1.4	QPSK	1	0	22.42	22.52	22.51								
1.4	16QAM	1	8	22.50	22.59	22.48	22.5	2						
1.4	16QAM	1	14	22.51	22.54	22.49								
1.4	16QAM	8	0	21.47	21.54	21.49	22.5	2						
1.4	16QAM	8	4	21.44	21.45	21.57								
1.4	16QAM	8	7	21.53	21.50	21.52	22.5	2						
1.4	16QAM	16	0	21.42	21.50	21.57								
1.4	16QAM	1	0	21.50	21.49	21.47	22.5	2						
1.4	16QAM	1	8	21.48	21.40	21.48								
1.4	16QAM	1	14	21.48	21.51	21.51	21.5	3						
1.4	16QAM	8	0	20.48	20.61	20.48								
1.4	16QAM	8	4	20.48	20.57	20.48	19.5	5						
1.4	16QAM	8	7	20.49	20.50	20.48								
1.4	16QAM	16	0	20.49	20.50	20.48	19.5	5						
1.4	16QAM	1	0	18.45	18.52	18.48								
1.4	16QAM	1	8	18.46	18.52	18.48	19.5	5						
1.4	16QAM	1	14	18.49	18.49	18.50								
1.4	16QAM	8	0	18.49	18.58	18.48	19.5	5						
1.4	16QAM	8	4	18.54	18.62	18.48								
1.4	16QAM	8	7	18.49	18.58	18.48	19.5	5						
1.4	16QAM	16	0	18.49	18.58	18.48								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	23.41	23.39	23.32	24.5	0						
1.4	QPSK	1	3	23.48	23.55	23.42								
1.4	QPSK	1	14	23.47	23.55	23.44	23.5	1						
1.4	QPSK	8	0	22.42	22.47	22.54								
1.4	QPSK	8	4	22.45	22.54	22.46	23.5	1						
1.4	QPSK	8	7	22.43	22.55	22.50								
1.4	QPSK	16	0	22.47	22.53	22.49	23.5	1						
1.4	QPSK	1	0	22.42	22.52	22.51								
1.4	16QAM	1	8	22.50	22.59	22.48	22.5	2						
1.4	16QAM	1	14	22.51	22.54	22.49								
1.4	16QAM	8	0	21.47	21.54	21.49	22.5	2						
1.4	16QAM	8	4	21.44	21.45	21.57								
1.4	16QAM	8	7	21.53										

Band 25 Modem D Ant0												
BW (MHz)	Modem (MHz)	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Max Ch / Freq.	Turn-on time (dBm)	Turn-off time (dBm)	MFR (dB)			
Channel												
Frequency (MHz)												
20	QPRK	1	0	21.77	21.88	21.72	23.5	0				
20	QPRK	1	49	21.77	21.78	21.78						
20	QPRK	50	0	21.74	21.85	21.85						
20	QPRK	50	24	21.73	21.71	21.82						
20	QPRK	50	50	21.80	21.71	21.81	23.5	0				
20	QPRK	100	0	21.76	21.88	21.73						
20	16QAM	1	0	21.78	21.79	21.80						
20	16QAM	1	49	21.80	21.85	21.76						
20	16QAM	1	99	21.81	21.81	21.82	23.5	0				
20	16QAM	50	0	21.81	21.80	21.82						
20	16QAM	50	24	21.82	21.80	21.83						
20	16QAM	50	50	21.77	21.81	21.81						
20	16QAM	100	0	21.76	21.80	21.80	23.5	0				
20	16QAM	1	0	21.78	21.81	21.81						
20	16QAM	1	49	21.71	21.85	21.81						
20	16QAM	50	24	20.80	20.78	20.89						
20	16QAM	50	50	20.89	20.82	20.89	22.5	1				
20	16QAM	100	0	20.87	20.80	20.84						
20	256QAM	1	0	18.74	18.84	18.79						
20	256QAM	1	99	18.83	18.87	18.70						
20	256QAM	50	0	18.82	18.78	18.83	20.5	3				
20	256QAM	50	24	18.81	18.80	18.89						
20	256QAM	50	50	18.85	18.78	18.72						
20	256QAM	100	0	18.86	18.88	18.72						
Channel												
Frequency (MHz)												
15	QPRK	1	0	21.72	21.78	21.83	23.5	0				
15	QPRK	1	31	21.72	21.81	21.88						
15	QPRK	1	74	21.73	21.77	21.78						
15	QPRK	50	0	21.73	21.79	21.89						
15	QPRK	50	24	21.68	21.68	21.70	23.5	0				
15	QPRK	50	50	21.78	21.80	21.73						
15	QPRK	75	0	21.74	21.83	21.80						
15	16QAM	1	0	21.71	21.78	21.79						
15	16QAM	1	31	21.74	21.79	21.79	23.5	0				
15	16QAM	1	74	21.73	21.76	21.78						
15	16QAM	50	0	20.78	21.68	21.77						
15	16QAM	50	24	21.65	21.72	21.73						
15	16QAM	75	0	21.65	21.72	21.68	23.5	0				
15	16QAM	1	0	21.64	21.75	21.78						
15	16QAM	1	74	21.64	21.77	21.75						
15	16QAM	50	0	20.83	20.79	20.73						
15	16QAM	50	24	20.88	20.78	20.84	22.5	1				
15	16QAM	50	50	20.95	20.75	20.81						
15	16QAM	50	75	20.88	20.75	20.87						
15	256QAM	1	0	18.75	18.79	18.72						
15	256QAM	1	31	18.57	18.82	18.43	20.5	3				
15	256QAM	1	74	18.51	18.87	18.64						
15	256QAM	50	0	18.54	18.78	18.60						
15	256QAM	50	24	18.52	18.87	18.54						
15	256QAM	50	39	18.53	18.89	18.67	20.5	3				
15	256QAM	50	50	18.60	18.73	18.64						
Channel												
Frequency (MHz)												
5	QPRK	1	0	21.70	21.77	21.81	23.5	0				
5	QPRK	1	12	21.84	21.72	21.81						
5	QPRK	1	24	21.74	21.82	21.81						
5	QPRK	50	0	21.73	21.78	21.75						
5	QPRK	12	7	21.74	21.59	21.74	23.5	0				
5	QPRK	12	13	21.78	21.68	21.74						
5	QPRK	50	0	21.68	21.73	21.83						
5	16QAM	1	0	21.69	21.77	21.89						
5	16QAM	1	12	21.67	21.75	21.70	23.5	0				
5	16QAM	1	24	21.65	21.74	21.80						
5	16QAM	12	0	21.79	21.68	21.81						
5	16QAM	12	7	21.74	21.75	21.71						
5	16QAM	12	14	21.84	21.75	21.78	23.5	0				
5	16QAM	25	0	21.87	21.73	21.73						
5	16QAM	1	0	21.76	21.80	21.71						
5	16QAM	1	12	21.75	21.75	21.76						
5	16QAM	1	24	21.83	21.68	21.77	22.5	1				
5	16QAM	12	0	20.87	20.81	20.71						
5	16QAM	12	7	20.88	20.79	20.82						
5	16QAM	12	13	20.85	20.69	20.83						
5	16QAM	25	0	20.80	20.72	20.86	20.5	3				
5	256QAM	1	0	18.87	18.82	18.76						
5	256QAM	1	12	18.94	18.75	18.49						
5	256QAM	1	24	18.93	18.85	18.87						
5	256QAM	12	0	18.85	18.89	18.80	20.5	3				
5	256QAM	12	7	18.92	18.74	18.46						
5	256QAM	12	13	18.99	18.89	18.70						
5	256QAM	25	0	18.93	18.87	18.89						
Channel												
Frequency (MHz)												
3	QPRK	1	0	21.65	21.81	21.65	23.5	0				
3	QPRK	1	8	21.74	21.68	21.68						
3	QPRK	1	14	21.83	21.77	21.83						
3	QPRK	50	0	21.73	21.73	21.77						
3	QPRK	8	4	21.74	21.68	21.77	23.5	0				
3	QPRK	8	7	21.70	21.66	21.76						
3	QPRK	15	0	21.75	21.83	21.71						
3	16QAM	1	0	21.68	21.77	21.78						
3	16QAM	1	8	21.76	21.74	21.72	23.5	0				
3	16QAM	1	14	21.76	21.77	21.80						
3	16QAM	3	0	21.68	21.68	21.73						
3	16QAM	8	0	20.68	20.61	20.57	22.5	1				
3	16QAM	8	4	20.59	20.69	20.65						
3	16QAM	15	0	20.68	20.57	20.58						
3	256QAM	1	0	18.87	18.82	18.75						
3	256QAM	1	8	18.92	18.73	18.48	20.5	3				
3	256QAM	1	14	18.96	18.85	18.60						
3	256QAM	8	0	18.76	18.71	18.72						
3	256QAM	8	4	18.82	18.77	18.87						
3	256QAM	8	7	18.81	18.75	18.83	20.5	3				
3	256QAM	15	0	18.96	18.87	18.89						
Channel												
Frequency (MHz)												
1.4	QPRK	1	0	21.62	21.73	21.67	23.5	0				
1.4	QPRK	1	6	21.67	21.61	21.68						
1.4	QPRK	1	12	21.71	21.71	21.71						
1.4	QPRK	3	0	21.69	21.79	21.68						
1.4	QPRK	3	0	21.68	21.73	21.68	23.5	0				
1.4	QPRK	3	3	21.83	21.73	21.58						
1.4	QPRK	6	0	21.63	21.82	21.75						
1.4	QPRK	6	3	21.76	21.81	21.76						
1.4	16QAM	1	0	21.67	21.77	21.69	23.5	0				
1.4	16QAM	1	6	21.78	21.69	21.73						
1.4	16QAM	1	12	21.78	21.72	21.74						
1.4	16QAM	3	1	21.71	21.74	21.67						
1.4	16QAM	3	1	21.78	21.72	21.78	23.5	0				
1.4	16QAM	3	1	21.79	21.72	21.74						
1.4	16QAM	1	0	21.72	21.78	21.78						
1.4	16QAM	1	6	21.74	21.68	21.77						
1.4	16QAM	3	0	21.76	21.72	21.70	23.5	0				
1.4	16QAM	3	0	21.78	21.77	21.74						
1.4	16QAM	3	3	21.68	21.77	21.72						
1.4	16QAM	6	0	20.68	20.74	20.76						
1.4	16QAM	6	3	20.77	20.67	20.72	22.5	1				
1.4	16QAM	6	6	20.68	20.64	20.76						
1.4	256QAM	1	0	18.51	18.74	18.48						
1.4	256QAM	1	6	18.51	18.85	18.65						
1.4	256QAM	3	0	18.70	18.82	18.65	20.5	3				
1.4	256QAM	3	3	18.82	18.67	18.44						
1.4	256QAM	3	6	18.83	18.80	18.89						
1.4	256QAM	6	0	18.86	18.78	18.72						

Band 66 Modem D Ant0									
BW [MHz]	Modem Channel	RB Size [kHz]	RB Offset	Power Low Ch. Freq. [dBm]	Power Main Ch. Freq. [dBm]	Power High Ch. Freq. [dBm]	Tune-up [dBm]	Antn [dB]	
Frequency (MHz)									
20	QPSK	1	0	18.73	18.69	18.55		20.5	0
20	QPSK	1	40	18.83	18.76	18.50			
20	QPSK	1	96	18.86	18.80	18.60			
20	QPSK	50	0	18.86	18.79	18.63			
20	QPSK	50	24	18.59	18.73	18.58		20.5	0
20	QPSK	50	50	18.56	18.74	18.76			
20	QPSK	100	0	18.65	18.76	18.60			
20	HQAM	1	0	18.55	18.66	18.58			
20	HQAM	1	40	18.59	18.72	18.72		20.5	0
20	HQAM	1	96	18.84	18.79	18.66			
20	HQAM	50	0	18.53	18.67	18.61			
20	HQAM	50	24	18.50	18.74	18.70		20.5	0
20	HQAM	50	50	18.62	18.79	18.63			
20	HQAM	100	0	18.52	18.71	18.60			
20	8QAM	1	0	18.55	18.74	18.76			
20	8QAM	1	40	18.66	18.74	18.67		20.5	0
20	8QAM	1	96	18.53	18.66	18.56			
20	8QAM	50	0	18.55	18.71	18.69			
20	8QAM	50	24	18.68	18.76	18.64		20.5	0
20	8QAM	50	50	18.52	18.70	18.60			
20	8QAM	100	0	18.40	18.63	18.56			
20	25QAM	1	0	18.39	18.59	18.30		20.5	0
20	25QAM	1	40	18.39	18.59	18.30			
20	25QAM	1	96	18.42	18.59	18.45			
20	25QAM	50	0	18.42	18.59	18.30			
20	25QAM	50	24	18.40	18.59	18.30		20.5	0
20	25QAM	50	50	18.42	18.57	18.25			
20	25QAM	100	0	18.48	18.54	18.42			
Channel									
Frequency (MHz)									
18	QPSK	1	0	18.67	18.71	18.60		20.5	0
18	QPSK	1	37	18.53	18.67	18.58			
18	QPSK	1	74	18.67	18.76	18.61			
18	QPSK	36	0	18.58	18.73	18.58			
18	QPSK	36	20	18.50	18.66	18.51		20.5	0
18	QPSK	36	36	18.51	18.63	18.67			
18	QPSK	75	0	18.57	18.70	18.60			
18	HQAM	1	0	18.63	18.56	18.64		20.5	0
18	HQAM	1	37	18.53	18.63	18.65			
18	HQAM	1	74	18.46	18.63	18.56			
18	HQAM	36	0	18.71	18.61	18.66			
18	HQAM	36	20	18.56	18.68	18.63		20.5	0
18	HQAM	36	36	18.51	18.63	18.68			
18	HQAM	75	0	18.65	18.66	18.64			
18	8QAM	1	0	18.50	18.65	18.72		20.5	0
18	8QAM	1	37	18.54	18.67	18.59			
18	8QAM	1	74	18.63	18.75	18.72		20.5	0
18	8QAM	36	0	18.75	18.78	18.73			
18	8QAM	36	20	18.56	18.68	18.63		20.5	0
18	8QAM	36	36	18.51	18.63	18.68			
18	8QAM	75	0	18.51	18.68	18.66		20.5	0
18	8QAM	1	0	18.36	18.64	18.36			
18	25QAM	1	37	18.33	18.40	18.21		20.5	0
18	25QAM	1	74	18.36	18.52	18.40			
18	25QAM	36	0	18.44	18.56	18.32			
18	25QAM	36	20	18.40	18.49	18.22		20.5	0
18	25QAM	36	36	18.34	18.53	18.20			
18	25QAM	75	0	18.38	18.46	18.38			
Channel									
Frequency (MHz)									
18	QPSK	1	0	18.44	18.51	18.44		20.5	0
18	QPSK	1	25	18.57	18.69	18.54			
18	QPSK	1	40	18.60	18.73	18.54			
18	QPSK	25	0	18.49	18.71	18.71			
18	QPSK	25	12	18.52	18.69	18.63		20.5	0
18	QPSK	25	25	18.50	18.64	18.70			
18	HQAM	1	0	18.60	18.60	18.60			
18	HQAM	1	0	18.58	18.61	18.61		20.5	0
18	HQAM	1	25	18.63	18.66	18.68			
18	HQAM	1	40	18.63	18.70	18.61			
18	HQAM	25	0	18.60	18.59	18.55		20.5	0
18	HQAM	25	12	18.69	18.69	18.62			
18	HQAM	25	25	18.67	18.67	18.53			
18	HQAM	50	0	18.58	18.61	18.53			
18	8QAM	1	0	18.60	18.66	18.64		20.5	0
18	8QAM	1	25	18.72	18.62	18.60			
18	8QAM	1	40	18.63	18.56	18.51			
18	8QAM	25	0	18.61	18.65	18.62		20.5	0
18	8QAM	25	12	18.63	18.71	18.65			
18	8QAM	25	25	18.40	18.62	18.48			
18	8QAM	50	0	18.50	18.60	18.63		20.5	0
18	25QAM	1	0	18.40	18.51	18.20			
18	25QAM	1	25	18.28	18.53	18.21		20.5	0
18	25QAM	1	40	18.34	18.51	18.38			
18	25QAM	25	0	18.45	18.58	18.21			
18	25QAM	25	12	18.44	18.46	18.24		20.5	0
18	25QAM	25	25	18.31	18.45	18.16			
18	25QAM	50	0	18.30	18.44	18.38			
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.67	18.71	18.60		20.5	0
5	QPSK	1	12	18.52	18.72	18.53			
5	QPSK	1	24	18.56	18.73	18.53		20.5	0
5	QPSK	12	0	18.60	18.74	18.53			
5	QPSK	12	7	18.67	18.69	18.50			
5	QPSK	12	13	18.64	18.70	18.70		20.5	0
5	QPSK	25	0	18.74	18.71	18.64			
5	HQAM	1	0	18.64	18.59	18.64		20.5	0
5	HQAM	1	12	18.62	18.62	18.77			
5	HQAM	1	24	18.70	18.63	18.73			
5	HQAM	12	0	18.63	18.55	18.67			
5	HQAM	12	7	18.67	18.66	18.73		20.5	0
5	HQAM	12	13	18.72	18.72	18.68			
5	HQAM	25	0	18.59	18.59	18.65			
5	8QAM	1	0	18.63	18.70	18.70		20.5	0
5	8QAM	1	12	18.60	18.67	18.74			
5	8QAM	1	24	18.62	18.61	18.64			
5	8QAM	12	0	18.65	18.62	18.79			
5	8QAM	12	7	18.76	18.67	18.74		20.5	0
5	8QAM	12	13	18.61	18.61	18.69			
5	25QAM	1	0	18.70	18.66	18.60			
5	25QAM	1	0	18.38	18.54	18.20		20.5	0
5	25QAM	1	12	18.50	18.47	18.19			
5	25QAM	1	24	18.31	18.53	18.34		20.5	0
5	25QAM	12	0	18.47	18.56	18.22			
5	25QAM	12	7	18.41	18.45	18.23		20.5	0
5	25QAM	12	13	18.37	18.52	18.16			
5	25QAM	25	0	18.37	18.47	18.37			
Channel									
Frequency (MHz)									
3	QPSK	1	0	18.65	18.77	18.63		20.5	0
3	QPSK	1	8	18.58	18.72	18.59			
3	QPSK	1	14	18.61	18.70	18.51			
3	QPSK	8	0	18.57	18.69	18.56		20.5	0
3	QPSK	8	4	18.54	18.69	18.50			
3	QPSK	8	7	18.52	18.62	18.68			
3	QPSK	15	0	18.60	18.65	18.50		20.5	0
3	HQAM	1	0	18.64	18.55	18.60			
3	HQAM	1	8	18.64	18.63	18.67		20.5	0
3	HQAM	1	14	18.69	18.66	18.62			
3	HQAM	8	0	18.58	18.61	18.56			
3	HQAM	8	4	18.64	18.65	18.64		20.5	0
3	HQAM	8	7	18.68	18.72	18.58			
3	HQAM	15	0	18.60	18.63	18.50			
3	8QAM	1	0	18.60	18.66	18.71		20.5	0
3	8QAM	1	8	18.74	18.69	18.56			
3	8QAM	1	14	18.62	18.62	18.50			
3	8QAM	8	0	18.59	18.66	18.55		20.5	0
3	8QAM	8	4	18.59	18.58	18.53			
3	8QAM	15	0	18.43	18.56	18.25			
3	25QAM	1	0	18.31	18.50	18.25		20.5	0
3	25QAM	1	14	18.36	18.48	18.39			
3	25QAM	8	0	18.43	18.53	18.27			
3	25QAM	8	4	18.44	18.54	18.21		20.5	0
3	25QAM	8	7	18.32	18.48	18.19			
3	25QAM	15	0	18.37	18.44	18.36			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	18.65	18.73	18.60		20.5	0
1.4	QPSK	1	8	18.58	18.72	18.59			
1.4	QPSK	1	14	18.61	18.70	18.51			
1.4	QPSK	8	0	18.54	18.73	18.54			
1.4	QPSK	3	0	18.58	18.69	18.54			
1.4	QPSK	3	8	18.64	18.74	18.64		20.5	0
1.4	QPSK	3	15	18.59	18.67	18.58			
1.4	QPSK	6	0	18.76	18.67	18.51		20.5	0
1.4	QPSK	6	8	18.56	18.65	18.50			
1.4	QPSK	3	0	18.68	18.60	18.67			
1.4	QPSK	1	0	18.64	18.58	18.54		20.5	0
1.4	QPSK	1	8	18.67	18.73	18.63			
1.4	QPSK	1	14	18.67	18.63	18.59			
1.4	QPSK	3	0	18.65	18.70	18.57			
1.4	QPSK	3	8	18.67	18.66	18.62		20.5	0
1.4	QPSK	3	15	18.					

PC3 Band 38 Modem D Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.71	21.80	21.73	23.5	0	
20	QPSK	1	49	21.63	21.74	21.65			
20	QPSK	1	99	21.61	21.76	21.65	23.5	0	
20	QPSK	50	0	21.65	21.75	21.65			
20	QPSK	50	24	21.60	21.77	21.64	23.5	0	
20	QPSK	50	50	21.65	21.72	21.65			
20	QPSK	100	0	21.65	21.77	21.66	23.5	0	
20	16QAM	1	0	21.66	21.69	21.66			
20	16QAM	1	49	21.70	21.69	21.72	23.5	0	
20	16QAM	1	99	21.62	21.73	21.63			
20	16QAM	50	0	21.15	21.23	21.20	23	0.5	
20	16QAM	50	24	21.20	21.21	21.16			
20	16QAM	50	50	21.19	21.22	21.14	23	0.5	
20	16QAM	100	0	21.13	21.26	21.15			
20	84QAM	1	0	21.14	21.27	21.12	23	0.5	
20	84QAM	1	49	21.12	21.21	21.17			
20	84QAM	1	99	21.12	21.27	21.21	22	1.5	
20	84QAM	50	0	20.18	20.25	20.17			
20	84QAM	50	24	20.19	20.23	20.13	22	1.5	
20	84QAM	50	50	20.16	20.21	20.12			
20	84QAM	100	0	20.20	20.25	20.20	20	3.5	
20	256QAM	1	0	18.20	18.26	18.17			
20	256QAM	1	49	18.18	18.21	18.21	20	3.5	
20	256QAM	1	99	18.15	18.20	18.16			
20	256QAM	50	0	18.15	18.26	18.13	20	3.5	
20	256QAM	50	24	18.19	18.25	18.20			
20	256QAM	50	50	18.13	18.20	18.16	20	3.5	
20	256QAM	100	0	18.10	18.24	18.18			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	21.59	21.70	21.69	23.5	0	
15	QPSK	1	37	21.51	21.64	21.53			
15	QPSK	1	74	21.56	21.67	21.55	23.5	0	
15	QPSK	36	0	21.61	21.66	21.54			
15	QPSK	36	20	21.52	21.64	21.62	23.5	0	
15	QPSK	36	39	21.58	21.65	21.58			
15	QPSK	75	0	21.61	21.69	21.58	23.5	0	
15	16QAM	1	0	21.58	21.68	21.60			
15	16QAM	1	37	21.68	21.61	21.69	23.5	0	
15	16QAM	1	74	21.56	21.60	21.61			
15	16QAM	36	0	21.05	21.12	21.07	23	0.5	
15	16QAM	36	20	21.09	21.09	21.05			
15	16QAM	36	39	21.12	21.14	21.02	23	0.5	
15	16QAM	75	0	21.01	21.25	21.11			
15	84QAM	1	0	21.05	21.25	21.11	23	0.5	
15	84QAM	1	37	21.03	21.16	21.14			
15	84QAM	1	74	21.06	21.19	21.15	22	1.5	
15	84QAM	36	0	20.09	20.18	20.06			
15	84QAM	36	20	20.07	20.13	20.05	22	1.5	
15	84QAM	36	39	20.06	20.11	20.07			
15	84QAM	75	0	20.07	20.15	20.14	20	3.5	
15	256QAM	1	0	18.11	18.14	18.13			
15	256QAM	1	37	18.10	18.19	18.16	20	3.5	
15	256QAM	1	74	18.12	18.09	18.09			
15	256QAM	36	0	18.12	18.24	18.04	20	3.5	
15	256QAM	36	20	18.11	18.21	18.12			
15	256QAM	36	39	18.08	18.17	18.09	20	3.5	
15	256QAM	75	0	18.01	18.12	18.13			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	21.62	21.75	21.68	23.5	0	
10	QPSK	1	25	21.61	21.76	21.56			
10	QPSK	1	49	21.59	21.64	21.56	23.5	0	
10	QPSK	25	0	21.61	21.71	21.53			
10	QPSK	25	12	21.56	21.66	21.53	23.5	0	
10	QPSK	25	25	21.58	21.69	21.57			
10	QPSK	50	0	21.60	21.64	21.56	23.5	0	
10	16QAM	1	0	21.64	21.65	21.58			
10	16QAM	1	25	21.68	21.66	21.63	23.5	0	
10	16QAM	1	49	21.58	21.65	21.51			
10	16QAM	25	0	21.05	21.16	21.19	23	0.5	
10	16QAM	25	12	21.18	21.19	21.04			
10	16QAM	25	25	21.09	21.18	21.04	23	0.5	
10	16QAM	50	0	21.08	21.20	21.03			
10	84QAM	1	0	21.02	21.26	21.04	23	0.5	
10	84QAM	1	25	21.01	21.12	21.12			
10	84QAM	1	49	21.02	21.15	21.17	22	1.5	
10	84QAM	25	0	20.12	20.22	20.06			
10	84QAM	25	12	20.12	20.22	20.05	20	3.5	
10	84QAM	25	25	20.05	20.20	20.00			
10	84QAM	50	0	20.09	20.22	20.06	20	3.5	
10	256QAM	1	0	18.12	18.20	18.15			
10	256QAM	1	25	18.06	18.14	18.19	20	3.5	
10	256QAM	1	49	18.03	18.12	18.14			
10	256QAM	25	0	18.03	18.25	18.07	20	3.5	
10	256QAM	25	12	18.14	18.20	18.11			
10	256QAM	25	25	18.03	18.10	18.06	20	3.5	
10	256QAM	50	0	18.03	18.15	18.11			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	21.61	21.73	21.69	23.5	0	
5	QPSK	1	12	21.52	21.65	21.57			
5	QPSK	1	24	21.50	21.66	21.59	23.5	0	
5	QPSK	12	0	21.58	21.77	21.62			
5	QPSK	12	7	21.56	21.66	21.56	23.5	0	
5	QPSK	12	13	21.59	21.65	21.56			
5	QPSK	25	0	21.58	21.75	21.55	23.5	0	
5	16QAM	1	0	21.57	21.68	21.56			
5	16QAM	1	12	21.67	21.62	21.69	23.5	0	
5	16QAM	1	24	21.55	21.63	21.53			
5	16QAM	12	0	21.08	21.13	21.14	23	0.5	
5	16QAM	12	7	21.12	21.17	21.06			
5	16QAM	12	13	21.12	21.15	21.09	23	0.5	
5	16QAM	25	0	21.07	21.16	21.04			
5	84QAM	1	0	21.12	21.25	21.06	23	0.5	
5	84QAM	1	12	21.01	21.09	21.05			
5	84QAM	1	24	21.11	21.24	21.11	22	1.5	
5	84QAM	12	0	20.10	20.24	20.09			
5	84QAM	12	7	20.06	20.16	20.00	22	1.5	
5	84QAM	12	13	20.03	20.18	20.07			
5	84QAM	25	0	20.09	20.16	20.08	20	3.5	
5	256QAM	1	0	18.08	18.18	18.15			
5	256QAM	1	12	18.12	18.16	18.14	20	3.5	
5	256QAM	1	24	18.04	18.16	18.11			
5	256QAM	12	0	18.12	18.22	18.08	20	3.5	
5	256QAM	12	7	18.12	18.18	18.18			
5	256QAM	12	13	18.12	18.12	18.08	20	3.5	
5	256QAM	25	0	18.09	18.13	18.10			

PC3 Band 41 Modem D Ant0											
BW [MHz]	Modulat ion	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2508	2549.5	2593	2636.5	2680			
20	QPSK	1	0	21.61	21.77	21.81	21.67	21.56	23.5	0	
20	QPSK	1	49	21.67	21.66	21.71	21.57	21.69			
20	QPSK	1	99	21.74	21.72	21.79	21.58	21.71			
20	QPSK	50	0	21.70	21.70	21.75	21.62	21.72			
20	QPSK	50	24	21.70	21.72	21.72	21.57	21.74	23.5	0	
20	QPSK	50	50	21.70	21.71	21.70	21.57	21.71			
20	QPSK	100	0	21.75	21.67	21.77	21.62	21.70			
20	16QAM	1	0	21.68	21.73	21.73	21.63	21.75			
20	16QAM	1	49	21.68	21.74	21.71	21.59	21.72	23.5	0	
20	16QAM	1	99	21.73	21.67	21.71	21.63	21.71			
20	16QAM	50	0	21.23	21.24	21.28	21.06	21.26			
20	16QAM	50	24	21.16	21.22	21.29	21.12	21.18			
20	16QAM	50	50	21.23	21.17	21.24	21.13	21.19	23	0.5	
20	16QAM	100	0	21.17	21.20	21.21	21.10	21.17			
20	64QAM	1	0	21.25	21.23	21.25	21.09	21.20			
20	64QAM	1	49	21.17	21.25	21.29	21.09	21.17			
20	64QAM	1	99	21.25	21.25	21.23	21.14	21.24	22	1.5	
20	64QAM	50	0	20.19	20.25	20.25	20.08	20.20			
20	64QAM	50	24	20.21	20.21	20.23	20.11	20.18			
20	64QAM	50	50	20.25	20.16	20.29	20.13	20.23			
20	256QAM	1	0	18.24	18.38	18.39	18.14	18.32	20	3.5	
20	256QAM	1	49	18.33	18.36	18.33	18.26	18.24			
20	256QAM	1	99	18.35	18.25	18.40	18.28	18.35			
20	256QAM	50	0	18.32	18.34	18.31	18.22	18.29			
20	256QAM	50	24	18.24	18.39	18.40	18.12	18.33	20	3.5	
20	256QAM	50	50	18.37	18.34	18.31	18.15	18.32			
20	256QAM	100	0	18.31	18.24	18.44	18.17	18.27			
Channel				39725	40173	40620	41068	41515			Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	21.70	21.72	21.71	21.58	21.70	24	0	
15	QPSK	1	37	21.59	21.54	21.61	21.59	21.67			
15	QPSK	1	74	21.68	21.60	21.69	21.50	21.67			
15	QPSK	36	0	21.67	21.66	21.73	21.57	21.63			
15	QPSK	36	20	21.64	21.70	21.61	21.48	21.66	23.5	0	
15	QPSK	36	39	21.61	21.62	21.60	21.53	21.63			
15	QPSK	75	0	21.72	21.59	21.73	21.59	21.62			
15	16QAM	1	0	21.68	21.63	21.63	21.59	21.72			
15	16QAM	1	37	21.58	21.61	21.59	21.55	21.63	23.5	0	
15	16QAM	1	74	21.71	21.64	21.63	21.50	21.61			
15	16QAM	36	0	21.11	21.18	21.21	21.01	21.14			
15	16QAM	36	20	21.08	21.11	21.25	21.03	21.17			
15	16QAM	36	39	21.16	21.12	21.18	21.02	21.14	23	0.5	
15	16QAM	75	0	21.06	21.16	21.17	21.02	21.05			
15	64QAM	1	0	21.20	21.16	21.15	21.05	21.07			
15	64QAM	1	37	21.07	21.22	21.19	20.98	21.05			
15	64QAM	1	74	21.19	21.18	21.14	21.13	21.13	22	1.5	
15	64QAM	36	0	20.10	20.19	20.20	19.97	20.09			
15	64QAM	36	20	20.12	20.11	20.12	20.02	20.07			
15	64QAM	36	39	20.14	20.03	20.22	20.03	20.12			
15	64QAM	75	0	20.13	20.13	20.11	20.02	20.11	20	3.5	
15	256QAM	1	0	18.22	18.28	18.27	18.05	18.22			
15	256QAM	1	37	18.26	18.26	18.26	18.22	18.12			
15	256QAM	1	74	18.23	18.20	18.35	18.26	18.24			
15	256QAM	36	0	18.24	18.26	18.24	18.10	18.27	20	3.5	
15	256QAM	36	20	18.22	18.32	18.28	18.03	18.28			
15	256QAM	36	39	18.33	18.32	18.23	18.13	18.20			
15	256QAM	75	0	18.28	18.23	18.35	18.08	18.22			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	21.72	21.69	21.71	21.56	21.72	24	0	
10	QPSK	1	25	21.60	21.57	21.66	21.56	21.58			
10	QPSK	1	49	21.65	21.67	21.75	21.58	21.67			
10	QPSK	25	0	21.67	21.62	21.69	21.60	21.60			
10	QPSK	25	12	21.58	21.69	21.69	21.52	21.66	23.5	0	
10	QPSK	25	25	21.64	21.62	21.58	21.47	21.69			
10	QPSK	50	0	21.64	21.61	21.71	21.51	21.68			
10	16QAM	1	0	21.60	21.71	21.68	21.51	21.68			
10	16QAM	1	25	21.65	21.72	21.64	21.54	21.66	23.5	0	
10	16QAM	1	49	21.60	21.64	21.64	21.57	21.63			
10	16QAM	25	0	21.12	21.20	21.26	20.96	21.17			
10	16QAM	25	12	21.14	21.16	21.24	21.08	21.07			
10	16QAM	25	25	21.21	21.10	21.20	21.04	21.08	23	0.5	
10	16QAM	50	0	21.09	21.14	21.15	21.09	21.06			
10	64QAM	1	0	21.15	21.16	21.13	21.07	21.11			
10	64QAM	1	25	21.11	21.13	21.19	20.98	21.09			
10	64QAM	1	49	21.24	21.21	21.21	21.02	21.11	22	1.5	
10	64QAM	25	0	20.10	20.16	20.23	19.96	20.08			
10	64QAM	25	12	20.15	20.19	20.16	20.03	20.10			
10	64QAM	25	25	20.19	20.06	20.27	20.11	20.21			
10	64QAM	50	0	20.16	20.17	20.19	20.03	20.11	20	3.5	
10	256QAM	1	0	18.16	18.29	18.30	18.07	18.29			
10	256QAM	1	25	18.26	18.28	18.30	18.15	18.19			
10	256QAM	1	49	18.24	18.22	18.33	18.17	18.29			
10	256QAM	25	0	18.21	18.30	18.23	18.12	18.28	20	3.5	
10	256QAM	25	12	18.19	18.29	18.29	18.00	18.32			
10	256QAM	25	25	18.31	18.23	18.32	18.08	18.27			
Channel				39675	40135	40600	41030	41455	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2498.5	2544.5	2593	2640.30	2687.5			
5	QPSK	1	0	21.72	21.68	21.71	21.57	21.69	24	0	
5	QPSK	1	12	21.59	21.56	21.63	21.56	21.59			
5	QPSK	1	24	21.60	21.62	21.75	21.58	21.65			
5	QPSK	12	0	21.60	21.66	21.65	21.58	21.60			
5	QPSK	12	7	21.51	21.68	21.66	21.52	21.60	23.5	0	
5	QPSK	12	13	21.61	21.66	21.62	21.46	21.63			
5	QPSK	25	0	21.73	21.66	21.76	21.61	21.59			
5	QPSK	25	1	21.61	21.67	21.66	21.59	21.65			
5	16QAM	1	12	21.65	21.70	21.63	21.54	21.71	23.5	0	
5	16QAM	1	24	21.64	21.63	21.70	21.53	21.70			
5	16QAM	12	0	21.18	21.19	21.21	21.03	21.19			
5	16QAM	12	7	21.08	21.16	21.19	20.99	21.13			
5	16QAM	12	13	21.17	21.16	21.21	21.03	21.13	23	0.5	
5	16QAM	25	0	21.09	21.17	21.11	21.03	21.10			
5	64QAM	1	0	21.14	21.14	21.22	21.02	21.10			
5	64QAM	1	12	21.14	21.18	21.21	21.03	21.10			
5	64QAM	1	24	21.15	21.15	21.18	21.03	21.14	23	0.5	
5	64QAM	12	0	20.14	20.17	20.18	19.96	20.12			
5	64QAM	12	7	20.15	20.19	20.12	20.03	20.14			
5	64QAM	12	13	20.12	20.09	20.21	20.02	20.14			
5	256QAM	1	0	18.22	18.21	18.26	18.02	18.24	20	3.5	
5	256QAM	1	12	18.22	18.24	18.31	18.24	18.11			
5	256QAM	1	24	18.26	18.23	18.32	18.22	18.22			
5	256QAM	12	0	18.24	18.27	18.25	18.15	18.22			
5	256QAM	12	7	18.13	18.33	18.36	18.06	18.30	20	3.5	
5	256QAM	12	13	18.32	18.30	18.29	18.17	18.23			
5	256QAM	25	0	18.28	18.17	18.43	18.08	18.24			

Band 2 Modem D Ant2											Band 4 Modem D Ant2											Band 7 Modem D Ant2												
BW (MHz)	Modem (MHz)	RB Sta (MHz)	RB Offset (MHz)	Power Low Ch / Freq (dBm)	Power Modem Ch / Freq (dBm)	Power High Ch / Freq (dBm)	Turn-up (dB)	Turn-off (dB)	MPE (dB)	Notes	BW (MHz)	Modem (MHz)	RB Sta (MHz)	RB Offset (MHz)	Power Low Ch / Freq (dBm)	Power Modem Ch / Freq (dBm)	Power High Ch / Freq (dBm)	Turn-up (dB)	Turn-off (dB)	MPE (dB)	Notes	BW (MHz)	Modem (MHz)	RB Sta (MHz)	RB Offset (MHz)	Power Low Ch / Freq (dBm)	Power Modem Ch / Freq (dBm)	Power High Ch / Freq (dBm)	Turn-up (dB)	Turn-off (dB)	MPE (dB)	Notes		
Channel											Channel											Channel												
Frequency (MHz)											Frequency (MHz)											Frequency (MHz)												
20	QPSK	1	0	21.77	21.62	21.78					20	QPSK	1	0	18.87	19.10	19.04					20	QPSK	1	0	19.18	19.33	19.27						
20	QPSK	1	40	21.75	21.79	21.75	23.5	0			20	QPSK	1	40	18.81	18.88	18.96					20	QPSK	1	40	19.31	19.36	19.10	19.0	0				
20	QPSK	1	96	21.74	21.72	21.71					20	QPSK	1	96	18.82	18.87	18.92					20	QPSK	1	96	19.27	19.30	19.14	19.0	0				
20	QPSK	50	0	21.76	21.79	21.70					20	QPSK	50	0	18.80	19.05	18.98					20	QPSK	50	0	18.80	19.02	18.99						
20	QPSK	50	24	21.74	21.78	21.75	23.5	0			20	QPSK	50	24	18.82	18.92	18.78					20	QPSK	50	24	19.00	18.86	18.84	20.0	0				
20	QPSK	50	50	21.73	21.67	21.67					20	QPSK	50	50	18.82	18.90	18.82					20	QPSK	50	50	18.72	18.94	18.78						
20	QPSK	100	0	21.72	21.74	21.72					20	QPSK	100	0	18.82	18.83	18.86					20	QPSK	100	0	19.03	19.00	18.78	20.0	0				
20	IQPSK	1	0	21.68	21.78	21.74					20	IQPSK	1	0	18.89	18.96	18.90					20	IQPSK	1	0	19.02	18.93	19.14						
20	IQPSK	1	40	21.68	21.78	21.69	23.5	0			20	IQPSK	1	40	18.76	18.96	18.87					20	IQPSK	1	40	18.97	18.98	18.86	20.0	0				
20	IQPSK	1	96	21.67	21.79	21.65					20	IQPSK	1	96	18.90	19.02	19.07					20	IQPSK	1	96	18.74	18.78	18.86	20.0	0				
20	IQPSK	50	0	21.68	21.78	21.70					20	IQPSK	50	0	18.86	18.90	18.92					20	IQPSK	50	0	18.97	18.79	18.80						
20	IQPSK	50	24	21.67	21.71	21.72	23.5	0			20	IQPSK	50	24	18.93	18.82	18.74					20	IQPSK	50	24	18.92	18.78	18.85	20.0	0				
20	IQPSK	50	50	21.75	21.80	21.74					20	IQPSK	50	50	18.97	18.95	19.08					20	IQPSK	50	50	18.95	18.71	18.71	20.0	0				
20	IQPSK	100	0	21.73	21.72	21.73					20	IQPSK	100	0	18.92	18.93	18.96					20	IQPSK	100	0	19.00	18.91	19.24						
20	IQPSK	1	0	21.69	21.72	21.65					20	IQPSK	1	0	18.97	18.79	18.72					20	IQPSK	1	0	19.02	19.01	19.73	20.0	0				
20	IQPSK	1	40	21.74	21.73	21.68	23.5	0			20	IQPSK	1	40	18.82	18.94	18.88					20	IQPSK	1	40	18.82	18.91	18.74	20.0	0				
20	IQPSK	1	96	21.70	21.75	21.65					20	IQPSK	1	96	18.85	18.95	18.87					20	IQPSK	1	96	18.77	18.72	18.91						
20	IQPSK	50	0	20.67	20.75	20.75					20	IQPSK	50	0	18.98	18.98	18.91					20	IQPSK	50	0	19.11	18.72	18.91						
20	IQPSK	50	24	20.70	20.71	20.73	22.5	1			20	IQPSK	50	24	18.82	18.84	18.86					20	IQPSK	50	24	18.87	18.83	18.80	20.0	0				
20	IQPSK	50	50	20.68	20.78	20.69					20	IQPSK	50	50	18.88	18.95	18.88					20	IQPSK	50	50	18.92	18.81	18.80	20.0	0				
20	IQPSK	100	0	20.68	20.74	20.69					20	IQPSK	100	0	18.87	18.92	18.77					20	IQPSK	100	0	18.95	18.81	18.83						
20	IQPSK	1	0	18.76	18.84	18.82	20.5	3			20	IQPSK	1	0	13.85	14.02	13.86					20	IQPSK	1	0	19.07	18.95	18.95						
20	IQPSK	1	40	18.69	18.76	18.72					20	IQPSK	1	40	18.78	18.76	18.85					20	IQPSK	1	40	18.97	18.93	18.90	20.0	0				
20	IQPSK	1	96	18.68	18.87	18.72					20	IQPSK	1	96	13.79	13.95	13.72					20	IQPSK	1	96	18.84	18.74	18.86						
20	IQPSK	50	0	18.75	18.79	18.72					20	IQPSK	50	0	13.85	13.93	13.70					20	IQPSK	50	0	18.89	18.74	18.84						
20	IQPSK	50	24	18.72	18.78	18.72	20.5	3			20	IQPSK	50	24	13.84	13.82	13.68					20	IQPSK	50	24	18.87	18.70	18.80	20.0	0				
20	IQPSK	50	50	18.71	18.84	18.69					20	IQPSK	50	50	13.86	14.02	13.68					20	IQPSK	50	50	18.83	18.74	18.82						
20	IQPSK	100	0	18.73	18.84	18.72					20	IQPSK	100	0	13.87	13.99	13.72					20	IQPSK	100	0	18.87	18.83	18.79	20.0	0				
Channel											Channel											Channel												
Frequency (MHz)											Frequency (MHz)											Frequency (MHz)												
16	QPSK	1	0	21.72	21.72	21.66					16	QPSK	1	0	17.73	17.55	17.47					16	QPSK	1	0	18.87	19.05	19.05						
16	QPSK	1	37	21.68	21.73	21.75	23.5	0			16	QPSK	1	37	18.81	18.87	18.91					16	QPSK	1	37	18.82	18.83	18.87	20.0	0				
16	QPSK	1	74	21.64	21.64	21.60					16	QPSK	1	74	18.80	18.91	18.93					16	QPSK	1	74	18.79	18.79	18.76						
16	QPSK	36	0	21.64	21.70	21.64					16	QPSK	36	0	18.72	18.96	18.98					16	QPSK	36	0	18.88	18.88	18.78						
16	QPSK	36	20	21.68	21.71	21.75	23.5	0			16	QPSK	36	20	18.82	18.85	18.82					16	QPSK	36	20	18.82	18.85	18.82	20.0	0				
16	QPSK	36	36	21.69	21.67	21.58					16	QPSK	36	36	18.83	18.88	19.00					16	QPSK	36	36	18.83	18.90	18.84						
16	IQPSK	1	0	21.62	21.66	21.60					16	IQPSK	1	0	18.88	18.95	18.85					16	IQPSK	1	0	18.92	19.03	18.95						
16	IQPSK	1	37	21.62	21.67	21.63	23.5	0			16	IQPSK	1	37	18.81	18.91	18.93					16	IQPSK	1	37	18.74	18.86	18.82	20.0	0				
16	IQPSK	1	74	21.62	21.70	21.62					16	IQPSK	1	74	18.82	19.00	18.96					16	IQPSK	1	74	18.71	18.87	19.07						
16	IQPSK	36	0	21.58	21.66	21.68					16	IQPSK	36	0	18.80	18.88	18.90					16	IQPSK	36	0	18.82	18.89	18.71	20.0	0				
16	IQPSK	36	20	21.61	21.65	21.63	23.5	0			16	IQPSK	36	20	18.91	18.88	18.90					16	IQPSK	36	20	18.90	18.89	18.92						
16	IQPSK	36	36	21.61	21.68	21.61					16	IQPSK	36	36	18.88	18.95	18.95					16	IQPSK	36	36	18.89	18.88	18.91						
16	IQPSK	75	0	21.65	21.69	21.54					16	IQPSK	75	0	18.96	18.96	18.87					16	IQPSK	75	0	18.98	18.94	18.88						
16	IQPSK	75	37	21.65	21.64	21.66	23.5	0			16	IQPSK	75	37	18.84	18.76	18.81					16	IQPSK	75	37	18.92	18.80	18.67	20.0	0				
16	IQPSK	75	74	21.58	21.70	21.58					16	IQPSK	75	74	18.84	18.78	18.76					16	IQPSK	75	74	18.83	18.83	18.86						
16	IQPSK	36	0	20.68	20.69	20.67					16	IQPSK	36	0	19.02	18.78	18.96					16	IQPSK	36	0	18.93	18.93	18.86						
16	IQPSK	36	20	20.68	20.70	20.69	22.5	1			16	IQPSK	36	20	18.81	18.71	18.98					16	IQPSK	36	20	18.92	18.91	18.88						
16	IQPSK	36	36	20.65	20.71	20.63					16	IQPSK	36	36	18.81	18.71	18.98					16	IQPSK	36	36	18.93	18.91	18.78						
16	IQPSK	75	0	18.65	18.71	20.63					16	IQPSK	75	0	18.98	18.70	18.96					16	IQPSK											

Band 25 Modem D Ant2										
BW (MHz)	Modem Ant	RB Start Channel	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turn-on Time (sec)	Modem Type	Modem Power (dB)	Modem Power (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.76	21.86	21.75	23.5	0		
20	QPSK	1	49	21.68	21.81	21.68				
20	QPSK	1	99	21.69	21.83	21.71				
20	QPSK	50	0	21.74	21.85	21.64				
20	QPSK	50	24	21.74	21.75	21.71				
20	QPSK	50	50	21.71	21.78	21.70				
20	QPSK	100	0	21.70	21.76	21.67				
20	16QAM	1	49	21.74	21.78	21.65	23.5	0		
20	16QAM	1	99	21.65	21.82	21.72				
20	16QAM	50	0	21.71	21.82	21.68				
20	16QAM	50	24	21.74	21.83	21.65	23.5	0		
20	16QAM	100	0	21.65	21.78	21.73				
20	16QAM	100	50	21.65	21.78	21.70				
20	64QAM	1	49	21.69	21.80	21.67	23.5	0		
20	64QAM	1	99	21.69	21.79	21.67				
20	64QAM	50	24	20.70	20.83	20.74	22.5	1		
20	64QAM	50	50	20.73	20.83	20.71				
20	64QAM	100	0	20.75	20.78	20.74				
20	256QAM	1	49	18.84	18.95	18.78	20.5	3		
20	256QAM	1	99	18.80	18.97	18.81				
20	256QAM	50	0	18.86	18.91	18.80				
20	256QAM	50	24	18.77	18.99	18.85	20.5	3		
20	256QAM	50	50	18.79	18.99	18.85				
20	256QAM	100	0	18.83	18.89	18.81				
Channel										
Frequency (MHz)										
18	QPSK	1	0	21.68	21.80	21.69	23.5	0		
18	QPSK	1	37	21.62	21.71	21.60				
18	QPSK	1	74	21.67	21.79	21.66				
18	QPSK	36	0	21.65	21.76	21.63				
18	QPSK	36	20	21.68	21.69	21.61				
18	QPSK	36	36	21.64	21.73	21.62	23.5	0		
18	QPSK	75	0	21.67	21.80	21.66				
18	QPSK	1	0	21.64	21.81	21.71				
18	16QAM	1	37	21.62	21.67	21.62	23.5	0		
18	16QAM	1	74	21.67	21.78	21.65				
18	16QAM	36	0	21.62	21.78	21.68				
18	16QAM	36	20	21.71	21.74	21.60	23.5	0		
18	16QAM	75	0	21.64	21.66	21.68				
18	16QAM	1	0	21.64	21.76	21.62				
18	16QAM	1	37	21.66	21.72	21.57	23.5	0		
18	16QAM	1	74	21.67	21.72	21.62				
18	16QAM	36	0	20.84	20.71	20.69				
18	16QAM	36	20	20.82	20.70	20.71	22.5	1		
18	16QAM	36	36	20.85	20.75	20.64				
18	16QAM	75	0	20.82	20.69	20.71				
18	256QAM	1	0	18.86	18.94	18.86	20.5	3		
18	256QAM	1	37	18.79	18.89	18.85				
18	256QAM	1	74	18.78	18.89	18.89				
18	256QAM	36	0	18.74	18.82	18.79				
18	256QAM	36	20	18.87	18.86	18.72	20.5	3		
18	256QAM	36	36	18.89	18.87	18.83				
18	256QAM	75	0	18.88	18.85	18.83				
Channel										
Frequency (MHz)										
18	QPSK	1	0	21.61	21.67	21.54	23.5	0		
5	QPSK	1	12	21.59	21.75	21.58				
5	QPSK	1	24	21.60	21.73	21.64				
5	QPSK	12	0	21.63	21.73	21.63				
5	QPSK	12	7	21.67	21.63	21.67	23.5	0		
5	QPSK	25	0	21.67	21.73	21.65				
5	QPSK	25	12	21.61	21.71	21.63				
5	16QAM	1	25	21.71	21.73	21.53	23.5	0		
5	16QAM	1	49	21.68	21.76	21.56				
5	16QAM	25	0	21.69	21.76	21.58				
5	16QAM	25	12	21.69	21.73	21.55	23.5	0		
5	16QAM	50	0	21.58	21.73	21.58				
5	16QAM	50	0	21.64	21.77	21.69				
5	64QAM	1	0	21.55	21.80	21.63	23.5	0		
5	64QAM	1	25	21.63	21.77	21.55				
5	64QAM	1	49	21.68	21.77	21.61				
5	64QAM	25	0	20.69	20.77	20.62				
5	64QAM	25	12	20.64	20.70	20.72	22.5	1		
5	64QAM	25	25	20.64	20.71	20.67				
5	64QAM	50	0	20.68	20.68	20.65				
5	256QAM	1	0	18.73	18.85	18.66	20.5	3		
5	256QAM	1	25	18.71	18.86	18.82				
5	256QAM	1	49	18.77	18.85	18.71				
5	256QAM	25	0	18.74	18.78	18.71				
5	256QAM	25	12	18.69	18.94	18.72	20.5	3		
5	256QAM	25	25	18.74	18.89	18.76				
5	256QAM	50	0	18.79	18.82	18.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.61	21.79	21.64	23.5	0		
3	QPSK	1	8	21.61	21.73	21.59				
3	QPSK	1	14	21.60	21.78	21.64				
3	QPSK	8	0	21.63	21.74	21.58				
3	QPSK	8	4	21.62	21.68	21.63	23.5	0		
3	QPSK	8	7	21.68	21.69	21.66				
3	QPSK	15	0	21.59	21.74	21.58				
3	16QAM	1	0	21.59	21.79	21.65				
3	16QAM	1	8	21.71	21.72	21.63	23.5	0		
3	16QAM	1	14	21.64	21.72	21.70				
3	16QAM	8	0	21.62	21.72	21.63				
3	16QAM	8	4	21.69	21.78	21.60	23.5	0		
3	16QAM	8	7	21.64	21.71	21.60				
3	16QAM	15	0	21.57	21.69	21.64				
3	16QAM	1	0	21.58	21.82	21.66	23.5	0		
3	16QAM	1	8	21.60	21.76	21.59				
3	64QAM	1	14	21.62	21.79	21.65				
3	64QAM	8	0	20.69	20.79	20.69	22.5	1		
3	64QAM	8	4	20.68	20.75	20.65				
3	64QAM	8	7	20.68	20.74	20.63				
3	16QAM	15	0	20.71	20.81	20.70	22.5	1		
3	256QAM	1	0	18.76	18.85	18.72	20.5	3		
3	256QAM	1	8	18.83	18.87	18.82				
3	256QAM	1	14	18.71	18.89	18.71				
3	256QAM	8	0	18.75	18.83	18.70				
3	256QAM	8	4	18.86	18.83	18.80	20.5	3		
3	256QAM	8	7	18.71	18.90	18.69				
3	256QAM	15	0	18.77	18.85	18.80				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.64	21.74	21.69	23.5	0		
1.4	QPSK	1	8	21.64	21.73	21.65				
1.4	QPSK	1	16	21.63	21.76	21.67				
1.4	QPSK	8	0	21.65	21.75	21.61	23.5	0		
1.4	QPSK	8	4	21.71	21.79	21.68				
1.4	QPSK	16	0	21.62	21.76	21.64				
1.4	QPSK	3	0	21.64	21.78	21.67				
1.4	QPSK	3	3	21.64	21.78	21.68	23.5	0		
1.4	16QAM	1	0	21.68	21.76	21.67				
1.4	16QAM	1	8	21.68	21.72	21.65				
1.4	16QAM	1	16	21.67	21.74	21.67				
1.4	16QAM	8	0	21.65	21.74	21.65	23.5	0		
1.4	16QAM	8	4	21.73	21.79	21.68				
1.4	16QAM	16	0	21.69	21.78	21.64				
1.4	16QAM	3	0	21.68	21.76	21.64				
1.4	64QAM	1	0	21.63	21.76	21.64	23.5	0		
1.4	64QAM	1	8	21.68	21.79	21.68				
1.4	64QAM	3	0	20.71	20.71	20.67	22.5	1		
1.4	64QAM	3	3	21.74	21.84	21.71				
1.4	256QAM	1	0	18.76	18.93	18.80	20.5	3		
1.4	256QAM	1	8	18.75	18.85	18.78				
1.4	256QAM	1	16	18.76	18.86	18.78				
1.4	256QAM	8	0	18.78	18.84	18.78				
1.4	256QAM	8	4	18.79	18.91	18.73	20.5	3		
1.4	256QAM	8	7	18.76	18.90	18.76				
1.4	256QAM	16	0	18.79	18.89	18.80				
1.4	256QAM	3	0	20.71	20.71	20.67	22.5	1		
1.4	256QAM	3	3	21.74	21.84	21.71				
1.4	256QAM	3	8	18.76	18.85	18.80	20.5	3		
1.4	256QAM	3	16	18.76	18.86	18.78				
1.4	256QAM	8	0	18.78	18.84	18.78				
1.4	256QAM	8	4	18.79	18.91	18.73	20.5	3		
1.4	256QAM	8	7	18.76	18.90	18.76				
1.4	256QAM	16	0	18.79	18.89	18.80				
1.4	256QAM	3	0	20.71	20.71	20.67	22.5	1		
1.4	256QAM	3	3	21.74	21.84	21.71				
1.4	256QAM	3	8	18.76	18.85	18.80	20.5	3		
1.4	256QAM	3	16	18.76	18.86	18.78				
1.4	256QAM	8	0	18.78	18.84	18.78				
1.4	256QAM	8	4	18.79	18.91	18.73	20.5	3		
1.4	256QAM	8	7	18.76	18.90	18.76				
1.4	256QAM	16	0	18.79	18.89	18.80				
1.4	256QAM	3	0	20.71	20.71	20.67	22.5	1		

PC3 Band 42 Modem D Ant2										
BW [MHz]	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	42590	42990	23.5	0	0	
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	21.91	21.88	21.86	23.5	0	0	
20	QPSK	1	49	21.89	21.79	21.77				
20	QPSK	1	99	21.86	21.85	21.80				
20	QPSK	50	0	21.87	21.79	21.82				
20	QPSK	50	24	21.77	21.80	21.80				
20	QPSK	50	50	21.80	21.80	21.80				
20	QPSK	100	0	21.85	21.79	21.80	23.5	0	0	
20	16QAM	1	0	21.83	21.79	21.82				
20	16QAM	1	49	21.87	21.75	21.82				
20	16QAM	1	99	21.82	21.73	21.84				
20	16QAM	50	0	21.41	21.24	21.24				
20	16QAM	50	24	21.41	21.41	21.25				
20	16QAM	50	50	21.36	21.32	21.33	23	0.5		
20	16QAM	100	0	21.35	21.30	21.27				
20	64QAM	1	0	21.33	21.38	21.34				
20	64QAM	1	49	21.32	21.31	21.25				
20	64QAM	1	99	21.40	21.40	21.25				
20	64QAM	50	0	20.40	20.30	20.22				
20	64QAM	50	24	20.35	20.32	20.28	22	1.5		
20	64QAM	50	50	20.29	20.37	20.24				
20	64QAM	100	0	20.35	20.36	20.27				
20	256QAM	1	0	18.34	18.32	18.31				
20	256QAM	1	49	18.32	18.34	18.30				
20	256QAM	1	99	18.29	18.35	18.30				
20	256QAM	50	0	18.31	18.40	18.34	20	3.5		
20	256QAM	50	24	18.28	18.35	18.28				
20	256QAM	50	50	18.27	18.36	18.34				
20	256QAM	100	0	18.33	18.29	18.34				
Channel				42165	42590	43015	23.5	0	0	
Frequency (MHz)				3457.5	3500	3542.5				
15	QPSK	1	0	21.87	21.76	21.79	23.5	0	0	
15	QPSK	1	37	21.82	21.69	21.72				
15	QPSK	1	74	21.81	21.81	21.74				
15	QPSK	36	0	21.80	21.78	21.75				
15	QPSK	36	20	21.72	21.68	21.74				
15	QPSK	36	39	21.78	21.68	21.75				
15	QPSK	75	0	21.68	21.71	21.68	23.5	0	0	
15	16QAM	1	0	21.72	21.74	21.79				
15	16QAM	1	37	21.80	21.72	21.70				
15	16QAM	1	74	21.73	21.62	21.75				
15	16QAM	36	0	21.39	21.14	21.22				
15	16QAM	36	20	21.40	21.38	21.23				
15	16QAM	36	39	21.26	21.27	21.23	23	0.5		
15	16QAM	75	0	21.23	21.23	21.18				
15	64QAM	1	0	21.21	21.28	21.31				
15	64QAM	1	37	21.20	21.20	21.18				
15	64QAM	1	74	21.34	21.31	21.18				
15	64QAM	36	0	20.37	20.19	20.10				
15	64QAM	36	20	20.31	20.27	20.21	22	1.5		
15	64QAM	36	39	20.26	20.35	20.23				
15	64QAM	75	0	20.33	20.32	20.25				
15	256QAM	1	0	18.26	18.29	18.21				
15	256QAM	1	37	18.21	18.32	18.21				
15	256QAM	1	74	18.27	18.29	18.23				
15	256QAM	36	0	18.20	18.35	18.19	20	3.5		
15	256QAM	36	20	18.22	18.27	18.14				
15	256QAM	36	39	18.22	18.30	18.21				
15	256QAM	75	0	18.23	18.21	18.24				
Channel				42140	42590	43040	23.5	0	0	
Frequency (MHz)				3455	3500	3545				
10	QPSK	1	0	21.85	21.77	21.74	23.5	0	0	
10	QPSK	1	25	21.80	21.74	21.72				
10	QPSK	1	49	21.78	21.79	21.78				
10	QPSK	25	0	21.75	21.69	21.71				
10	QPSK	25	12	21.67	21.77	21.71				
10	QPSK	25	25	21.67	21.75	21.73				
10	QPSK	50	0	21.71	21.68	21.69	23.5	0	0	
10	16QAM	1	0	21.70	21.78	21.74				
10	16QAM	1	25	21.76	21.73	21.72				
10	16QAM	1	49	21.73	21.71	21.82				
10	16QAM	25	0	21.34	21.18	21.15				
10	16QAM	25	12	21.29	21.30	21.21				
10	16QAM	25	25	21.25	21.31	21.23	23	0.5		
10	16QAM	50	0	21.28	21.24	21.25				
10	64QAM	1	0	21.28	21.28	21.29				
10	64QAM	1	25	21.27	21.29	21.16				
10	64QAM	1	49	21.35	21.34	21.18				
10	64QAM	25	0	20.31	20.17	20.09				
10	64QAM	25	12	20.24	20.24	20.22	22	1.5		
10	64QAM	25	25	20.26	20.33	20.14				
10	64QAM	50	0	20.28	20.33	20.16				
10	256QAM	1	0	18.22	18.20	18.22				
10	256QAM	1	25	18.31	18.29	18.24				
10	256QAM	1	49	18.17	18.24	18.28				
10	256QAM	25	0	18.25	18.34	18.17	20	3.5		
10	256QAM	25	12	18.22	18.24	18.25				
10	256QAM	25	25	18.22	18.26	18.21				
10	256QAM	50	0	18.25	18.18	18.30				
Channel				42115	42590	43065	23.5	0	0	
Frequency (MHz)				3492.5	3500	3547.5				
5	QPSK	1	0	21.79	21.78	21.78	23.5	0	0	
5	QPSK	1	12	21.79	21.71	21.65				
5	QPSK	1	24	21.77	21.74	21.73				
5	QPSK	12	0	21.74	21.68	21.69				
5	QPSK	12	7	21.70	21.78	21.72				
5	QPSK	12	13	21.73	21.72	21.74				
5	QPSK	25	0	21.68	21.78	21.74	23.5	0	0	
5	16QAM	1	0	21.70	21.73	21.72				
5	16QAM	1	12	21.84	21.68	21.77				
5	16QAM	1	24	21.80	21.67	21.83				
5	16QAM	12	0	21.28	21.21	21.20				
5	16QAM	12	7	21.35	21.36	21.21				
5	16QAM	12	13	21.30	21.19	21.27	23	0.5		
5	16QAM	25	0	21.24	21.25	21.16				
5	64QAM	1	0	21.27	21.31	21.32				
5	64QAM	1	12	21.29	21.25	21.22				
5	64QAM	1	24	21.29	21.37	21.18				
5	64QAM	12	0	20.33	20.26	20.16				
5	64QAM	12	7	20.31	20.29	20.26	22	1.5		
5	64QAM	12	13	20.27	20.24	20.13				
5	64QAM	25	0	20.32	20.31	20.20				
5	256QAM	1	0	18.25	18.27	18.19				
5	256QAM	1	12	18.29	18.24	18.19				
5	256QAM	1	24	18.26	18.28	18.27				
5	256QAM	12	0	18.27	18.35	18.15	20	3.5		
5	256QAM	12	7	18.29	18.37	18.17				
5	256QAM	12	13	18.19	18.33	18.28				
5	256QAM	25	0	18.29	18.20	18.31				

Band 48 Modem D Ant2												
BW (MHz)	Modulat ion	RB Size	RB Offset	Power Low Ch. / Freq	Power Low Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				55340	55830	56150	56640					
Frequency (MHz)				3560	3609	3641	3690					
20	QPSK	1	0	14.90	14.92	14.83	14.79	16.5	0			
20	QPSK	1	49	14.82	14.88	14.84	14.89					
20	QPSK	1	99	14.89	14.81	14.86	14.84					
20	QPSK	50	0	14.82	14.83	14.75	14.72					
20	QPSK	50	24	14.70	14.83	14.71	14.80	16.5	0			
20	QPSK	50	50	14.80	14.71	14.80	14.79					
20	QPSK	100	0	14.80	14.81	14.71	14.70					
20	16QAM	1	0	14.77	14.81	14.72	14.83					
20	16QAM	1	49	14.81	14.77	14.74	14.75	16.5	0			
20	16QAM	1	99	14.85	14.87	14.76	14.70					
20	16QAM	50	0	14.71	14.78	14.78	14.83					
20	16QAM	50	24	14.81	14.76	14.81	14.79					
20	16QAM	50	50	14.79	14.85	14.79	14.74	16.5	0			
20	16QAM	100	0	14.70	14.79	14.76	14.79					
20	64QAM	1	0	14.78	14.72	14.78	14.76					
20	64QAM	1	49	14.84	14.83	14.73	14.73	16.5	0			
20	64QAM	1	99	14.76	14.83	14.79	14.84					
20	64QAM	50	0	14.80	14.77	14.81	14.74					
20	64QAM	50	24	14.79	14.83	14.73	14.71					
20	64QAM	50	50	14.75	14.80	14.77	14.82	16.5	0			
20	64QAM	100	0	14.80	14.73	14.80	14.80					
20	256QAM	1	0	14.84	14.77	14.79	14.76					
20	256QAM	1	49	14.85	14.82	14.76	14.78	16.5	0			
20	256QAM	1	99	14.77	14.82	14.78	14.78					
20	256QAM	50	0	14.75	14.82	14.76	14.76					
20	256QAM	50	24	14.73	14.86	14.70	14.70					
20	256QAM	50	50	14.74	14.76	14.81	14.76	16.5	0			
20	256QAM	100	0	14.84	14.75	14.81	14.77					
Channel				55315	55820	56160	56665	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				3557.5	3608	3642	3692.5					
15	QPSK	1	0	14.79	14.80	14.80	14.76	16.5	0			
15	QPSK	1	37	14.78	14.78	14.72	14.84					
15	QPSK	1	74	14.78	14.68	14.82	14.79					
15	QPSK	36	0	14.74	14.72	14.71	14.65					
15	QPSK	36	20	14.65	14.71	14.85	14.73	16.5	0			
15	QPSK	36	39	14.67	14.68	14.71	14.72					
15	QPSK	75	0	14.74	14.78	14.68	14.64					
15	16QAM	1	0	14.66	14.71	14.70	14.79					
15	16QAM	1	37	14.71	14.69	14.70	14.68	16.5	0			
15	16QAM	1	74	14.73	14.75	14.66	14.65					
15	16QAM	36	0	14.67	14.73	14.74	14.74					
15	16QAM	36	20	14.68	14.64	14.74	14.75					
15	16QAM	36	39	14.75	14.75	14.71	14.63	16.5	0			
15	16QAM	75	0	14.70	14.66	14.71	14.71					
15	64QAM	1	0	14.74	14.71	14.71	14.72					
15	64QAM	1	37	14.75	14.77	14.63	14.67	16.5	0			
15	64QAM	1	74	14.71	14.70	14.71	14.76					
15	64QAM	36	0	14.69	14.69	14.70	14.62					
15	64QAM	36	20	14.71	14.74	14.63	14.63					
15	64QAM	36	39	14.68	14.74	14.68	14.76	16.5	0			
15	64QAM	75	0	14.76	14.65	14.73	14.76					
15	256QAM	1	0	14.84	14.73	14.73	14.73					
15	256QAM	1	37	14.89	14.85	14.76	14.71	16.5	0			
15	256QAM	1	74	14.77	14.89	14.77	14.87					
15	256QAM	36	0	14.76	14.73	14.85	14.79					
15	256QAM	36	20	14.82	14.89	14.75	14.75					
15	256QAM	36	39	14.70	14.83	14.73	14.87	16.5	0			
15	256QAM	75	0	14.78	14.69	14.76	14.76					
Channel				55290	55815	56165	56690	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				3555	3607.5	3642.5	3695					
10	QPSK	1	0	14.86	14.85	14.76	14.74	16.5	0			
10	QPSK	1	25	14.74	14.77	14.73	14.82					
10	QPSK	1	49	14.82	14.70	14.77	14.74					
10	QPSK	25	0	14.78	14.78	14.69	14.65					
10	QPSK	25	12	14.65	14.75	14.65	14.76	16.5	0			
10	QPSK	25	25	14.72	14.64	14.73	14.75					
10	QPSK	50	0	14.71	14.75	14.66	14.67					
10	16QAM	1	0	14.73	14.75	14.63	14.76					
10	16QAM	1	25	14.77	14.72	14.70	14.62	16.5	0			
10	16QAM	1	49	14.76	14.76	14.87	14.64					
10	16QAM	25	0	14.65	14.72	14.70	14.79					
10	16QAM	25	12	14.70	14.73	14.77	14.69					
10	16QAM	25	25	14.70	14.76	14.74	14.62	16.5	0			
10	16QAM	50	0	14.66	14.75	14.67	14.75					
10	64QAM	1	0	14.71	14.69	14.74	14.64					
10	64QAM	1	25	14.81	14.75	14.67	14.68	16.5	0			
10	64QAM	1	49	14.63	14.76	14.72	14.79					
10	64QAM	25	0	14.69	14.73	14.70	14.69					
10	64QAM	25	12	14.75	14.72	14.65	14.63					
10	64QAM	25	25	14.62	14.70	14.73	14.73	16.5	0			
10	64QAM	50	0	14.73	14.69	14.75	14.76					
10	256QAM	1	0	14.84	14.68	14.77	14.70					
10	256QAM	1	25	14.90	14.88	14.73	14.68	16.5	0			
10	256QAM	1	49	14.70	14.79	14.84	14.87					
10	256QAM	25	0	14.75	14.72	14.83	14.80					
10	256QAM	25	12	14.81	14.84	14.75	14.72					
10	256QAM	25	25	14.75	14.86	14.73	14.78	16.5	0			
10	256QAM	50	0	14.81	14.73	14.85	14.85					
Channel				55265	55810	56170	56715	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				3552.5	3597	3643	3697.5					
5	QPSK	1	0	14.78	14.83	14.78	14.67	16.5	0			
5	QPSK	1	12	14.78	14.78	14.73	14.79					
5	QPSK	1	24	14.79	14.74	14.77	14.76					
5	QPSK	12	0	14.71	14.72	14.63	14.66					
5	QPSK	12	7	14.66	14.72	14.64	14.68	16.5	0			
5	QPSK	12	13	14.69	14.64	14.76	14.67					
5	QPSK	25	0	14.72	14.77	14.69	14.65					
5	16QAM	1	0	14.85	14.68	14.66	14.78					
5	16QAM	1	12	14.69	14.70	14.70	14.65	16.5	0			
5	16QAM	1	24	14.82	14.76	14.68	14.82					
5	16QAM	12	0	14.71	14.68	14.74	14.72					
5	16QAM	12	7	14.73	14.67	14.76	14.70					
5	16QAM	12	1	14.75	14.76	14.67	14.67	16.5	0			
5	16QAM	25	0	14.68	14.70	14.71	14.71					
5	16QAM	25	12	14.75	14.69	14.70	14.64					
5	64QAM	1	0	14.78	14.72	14.78	14.76					
5	64QAM	1	24	14.68	14.77	14.73	14.80	16.5	0			
5	64QAM	12	0	14.67	14.68	14.72	14.62					
5	64QAM	12	7	14.75	14.72	14.64	14.67					
5	64QAM	12	13	14.63	14.69	14.73	14.78	16.5	0			
5	64QAM	25	0	14.73	14.64	14.74	14.65					
5	256QAM	1	0	14.81	14.76	14.74	14.74					
5	256QAM	1	12	14.88	14.88	14.76	14.73					
5	256QAM	1	24	14.77	14.80	14.73	14.86	16.5	0			
5	256QAM	12	0	14.82	14.82	14.81	14.78					
5	256QAM	12	7	14.80	14.83	14.74	14.77					
5	256QAM	12	13	14.79	14.75	14.73	14.77					
5	256QAM	25	0	14.79	14.73	14.86	14.77	16.5	0			

n2 Modem A Ant0									
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1660	1680	1900			
Frequency (MHz)									
20	PI2 BPSK	1	1	21.56	21.56	21.52		23.5	0.0
20	PI2 BPSK	1	53	21.51	21.52	21.52			
20	PI2 BPSK	1	104	21.51	21.52	21.53			
20	PI2 BPSK	50	0	21.14	21.11	21.17	23.0	0.5	
20	PI2 BPSK	50	28	21.59	21.54	21.56	23.5	0.0	
20	PI2 BPSK	50	56	21.15	21.24	21.10	23.0	0.5	
20	PI2 BPSK	100	0	21.10	21.24	21.20			
20	QPSK	1	1	21.63	21.67	21.58			
20	QPSK	1	53	21.52	21.55	21.56	23.5	0.0	
20	QPSK	1	104	21.57	21.53	21.51			
20	QPSK	50	0	20.61	20.60	20.60	22.5	1.0	
20	QPSK	50	28	21.55	21.64	21.53	23.5	0.0	
20	QPSK	50	56	20.70	20.62	20.63			
20	QPSK	100	0	20.64	20.72	20.69	22.5	1.0	
20	16QAM	1	1	20.69	20.75	20.70	22.5	1.0	
20	64QAM	1	1	19.17	19.13	19.11	21.0	2.5	
20	256QAM	1	1	17.17	17.15	17.18	19.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	21.52	21.55	21.52	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	21.51	21.58	21.53	23.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1853.5	1880	1907.5			
5	QPSK	1	1	21.54	21.64	21.55	23.5	0.0	

n5 Modem A Ant0									
BW [MHz]	Modulatio n	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	22.46	22.62	22.63		24.5	0.0
20	PI2 BPSK	1	53	22.72	22.72	22.62			
20	PI2 BPSK	1	104	22.76	22.71	22.52			
20	PI2 BPSK	50	0	22.33	22.24	22.20	24.0	0.5	
20	PI2 BPSK	50	28	22.72	22.69	22.66	24.5	0.0	
20	PI2 BPSK	50	56	22.36	22.50	22.18	24.0	0.5	
20	PI2 BPSK	100	0	22.24	22.46	22.31			
20	QPSK	1	1	22.83	22.87	22.80			
20	QPSK	1	53	22.66	22.81	22.71	24.5	0.0	
20	QPSK	1	104	22.65	22.67	22.52			
20	QPSK	50	0	21.82	21.79	21.75	23.5	1.0	
20	QPSK	50	28	22.80	22.85	22.56	24.5	0.0	
20	QPSK	50	56	21.91	21.78	21.75	23.5	1.0	
20	QPSK	100	0	21.87	21.89	21.81			
20	16QAM	1	1	21.93	21.89	21.73	23.5	1.0	
20	64QAM	1	1	20.57	20.29	20.27	22.0	2.5	
20	256QAM	1	1	18.29	18.41	18.28	20.0	4.5	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.75	22.80	22.76	24.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.74	22.74	22.75	24.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.73	22.75	22.70	24.5	0.0	

n7 Modem A Ant0									
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	18.89	18.94	18.86		20.5	0.0
40	PI2 BPSK	1	108	18.91	19.01	18.75			
40	PI2 BPSK	1	214	18.98	18.99	18.79			
40	PI2 BPSK	108	0	18.97	19.03	18.84	20.5	0.0	
40	PI2 BPSK	108	54	18.96	18.97	18.75	20.5	0.0	
40	PI2 BPSK	108	108	18.89	19.01	18.80	20.5	0.0	
40	PI2 BPSK	216	0	19.01	19.96	18.74			
40	QPSK	1	1	18.90	19.04	18.84			
40	QPSK	1	108	18.91	18.99	18.75	20.5	0.0	
40	QPSK	1	214	18.86	18.90	18.78			
40	QPSK	108	0	18.88	18.94	18.74	20.5	0.0	
40	QPSK	108	54	18.95	19.01	18.82	20.5	0.0	
40	QPSK	108	108	19.00	19.92	18.87			
40	QPSK	216	0	18.90	19.00	18.76	20.5	0.0	
40	16QAM	1	1	18.91	18.97	18.83	20.5	0.0	
40	64QAM	1	1	18.80	18.75	18.78	20.5	0.0	
40	256QAM	1	1	17.51	17.54	17.52	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.96	18.93	18.74	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.85	18.88	18.75	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	18.88	19.92	18.80	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	18.89	18.96	18.78	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.97	18.89	18.85	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.85	19.00	18.75	20.5	0.0	

n12 Modem A Ant0									
BW [MHz]	Modulatio n	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	22.58	22.77	22.54		24.5	0.0
15	PI2 BPSK	1	48	22.62	22.67	22.58			
15	PI2 BPSK	1	77	22.69	22.66	22.52			
15	PI2 BPSK	36	0	22.25	22.13	22.16	24.0	0.5	
15	PI2 BPSK	36	22	22.62	22.62	22.58	24.5	0.0	
15	PI2 BPSK	36	43	22.31	22.43	22.09	24.0	0.5	
15	PI2 BPSK	75	0	22.13	22.36	22.25			
15	QPSK	1	1	22.81	22.87	22.85			
15	QPSK	1	48	22.58	22.73	22.64	24.5	0.0	
15	QPSK	1	77	22.55	22.58	22.56			
15	QPSK	36	0	21.73	21.72	21.67	23.5	1.0	
15	QPSK	36	22	22.70	22.61	22.57	24.5	0.0	
15	QPSK	36	43	21.84	21.68	21.66			
15	QPSK	75	0	21.80	21.81	21.74	23.5	1.0	
15	16QAM	1	1	21.88	21.84	21.63	23.5	1.0	
15	64QAM	1	1	20.29	20.25	20.20	22.0	2.5	
15	256QAM	1	1	19.21	19.35	18.24	20.0	4.5	
Channel				140900	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.75	22.83	22.80	24.5	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.75	22.82	22.76	24.5	0.0	

n13 Modem A Ant0									
BW (MHz)	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				156400					
Frequency (MHz)				762					
10	PI2 BPSK	1	1		22.53				
10	PI2 BPSK	1	26		22.37		24.0	0.0	
10	PI2 BPSK	1	50		22.32				
10	PI2 BPSK	25	0		21.84		23.5	0.5	
10	PI2 BPSK	25	14		22.38		24.0	0.0	
10	PI2 BPSK	25	27		22.16		23.5	0.5	
10	PI2 BPSK	50	0		22.02				
10	QPSK	1	1		22.55				
10	QPSK	1	26		22.48		24.0	0.0	
10	QPSK	1	50		22.24				
10	QPSK	25	0		21.36		23.0	1.0	
10	QPSK	25	14		22.45		24.0	0.0	
10	QPSK	25	27		21.33				
10	QPSK	50	0		21.52		23.0	1.0	
10	16QAM	1	1		21.49		23.0	1.0	
10	16QAM	1	1		19.91		21.5	2.5	
10	256QAM	1	1		18.10		19.5	4.5	
Channel				155900	156400	156900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				779.5	762	784.5			
5	QPSK	1	1	22.50	22.53	22.51	24.0	0.0	

n14 Modem A Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				158600					
Frequency (MHz)				793					
10	PI2 BPSK	1	1		22.81				
10	PI2 BPSK	1	26		22.59		24.5	0.0	
10	PI2 BPSK	1	50		22.66				
10	PI2 BPSK	25	0		22.18		24.0	0.5	
10	PI2 BPSK	25	14		22.60		24.5	0.0	
10	PI2 BPSK	25	27		22.54		24.0	0.5	
10	PI2 BPSK	50	0		22.30				
10	QPSK	1	1		22.82				
10	QPSK	1	26		22.80		24.5	0.0	
10	QPSK	1	50		22.51				
10	QPSK	25	0		21.68		23.5	1.0	
10	QPSK	25	14		22.75		24.5	0.0	
10	QPSK	25	27		21.70				
10	QPSK	50	0		21.76		23.5	1.0	
10	16QAM	1	1		21.72		23.5	1.0	
10	16QAM	1	1		20.18		22.0	2.5	
10	256QAM	1	1		18.34		20.0	4.5	
Channel				159100	158600	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.73	22.81	22.80	24.5	0.0	

n25 Modem A Ant0									
BW (MHz)	Modulatio n	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)				1670		1682.5 1695			
40	PI2 BPSK	1	1		21.65	21.72	21.56		
40	PI2 BPSK	1	108		21.57	21.62	21.58	23.5	0.0
40	PI2 BPSK	1	214		21.55	21.73	21.54		
40	PI2 BPSK	108	0		21.22	21.18	21.12	23.0	0.5
40	PI2 BPSK	108	54		21.67	21.86	21.54	23.5	0.0
40	PI2 BPSK	108	108		21.36	21.41	21.05	23.0	0.5
40	PI2 BPSK	216	0		21.16	21.40	21.07		
40	QPSK	1	1		21.69	21.74	21.71		
40	QPSK	1	108		21.66	21.65	21.52	23.5	0.0
40	QPSK	1	214		21.55	21.72	21.52		
40	QPSK	108	0		20.57	20.65	20.63	22.5	1.0
40	QPSK	108	54		21.61	21.65	21.64	23.5	0.0
40	QPSK	108	108		20.81	20.84	20.55	22.5	1.0
40	QPSK	216	0		20.73	20.76	20.52	22.5	1.0
40	16QAM	1	1		20.79	20.96	20.81	22.5	1.0
40	16QAM	1	1		19.28	19.24	19.04	21.0	2.5
40	256QAM	1	1		17.28	17.30	17.27	19.0	4.5
Channel				372000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1		21.61	21.69	21.69	23.5	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1		21.57	21.70	21.66	23.5	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1		21.65	21.63	21.65	23.5	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1		21.64	21.63	21.65	23.5	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1		21.57	21.68	21.68	23.5	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1		21.68	21.63	21.57	23.5	0.0

n26 Modem A Ant0									
BW (MHz)	Modulatio n	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		22.68	22.64	22.85		
20	PI2 BPSK	1	53		22.70	22.65	22.75	24.5	0.0
20	PI2 BPSK	1	104		22.81	22.65	22.73		
20	PI2 BPSK	50	0		22.33	22.27	22.25	24.0	0.5
20	PI2 BPSK	50	28		22.70	22.65	22.75	24.5	0.0
20	PI2 BPSK	50	56		22.43	22.23	22.53	24.0	0.5
20	PI2 BPSK	100	0		22.23	22.38	22.47		
20	QPSK	1	1		22.78	22.85	22.58		
20	QPSK	1	53		22.70	22.73	22.78	24.5	0.0
20	QPSK	1	104		22.65	22.64	22.67		
20	QPSK	50	0		21.84	21.75	21.80	23.5	1.0
20	QPSK	50	28		22.79	22.68	22.85	24.5	0.0
20	QPSK	50	56		21.93	21.74	21.76	23.5	1.0
20	QPSK	100	0		21.93	21.88	21.95		
20	16QAM	1	1		22.02	21.71	21.95	23.5	1.0
20	16QAM	1	1		20.39	20.31	20.37	22.0	2.5
20	256QAM	1	1		18.33	18.36	18.48	20.0	4.5
Channel				164300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1		22.79	22.89	22.80	24.5	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1		22.72	22.92	22.78	24.5	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				818.5	831.5	846.5			
5	QPSK	1	1		22.72	22.89	22.78	24.5	0.0

n30 Modem A Ant0									
BW (MHz)	Modulatio n	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1	13.06			14.5	0.0	
10	PI/2 BPSK	1	26	12.95					
10	PI/2 BPSK	1	50	12.83					
10	PI/2 BPSK	25	0	12.71			14.5	0.0	
10	PI/2 BPSK	25	14	12.91			14.5	0.0	
10	PI/2 BPSK	25	27	12.83			14.5	0.0	
10	PI/2 BPSK	50	0	12.86					
10	QPSK	1	1	13.14					
10	QPSK	1	26	13.00			14.5	0.0	
10	QPSK	1	50	13.10					
10	QPSK	25	0	13.02			14.5	0.0	
10	QPSK	25	14	13.05			14.5	0.0	
10	QPSK	25	27	12.91			14.5	0.0	
10	QPSK	50	0	12.84					
10	16QAM	1	1	13.09			14.5	0.0	
10	64QAM	1	1	13.01			14.5	0.0	
10	256QAM	1	1	13.00			14.5	0.0	
Channel				461500	462000	462500			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	13.09	13.10	13.07	14.5	0.0	

n66 Modem A Ant0									
BW (MHz)	Modulatio n	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	PI/2 BPSK	1	1	19.14	19.21	19.07			
40	PI/2 BPSK	1	108	19.06	19.09	19.01	21.0	0.0	
40	PI/2 BPSK	1	214	19.06	19.16	19.07			
40	PI/2 BPSK	108	0	19.14	19.21	19.09	21.0	0.0	
40	PI/2 BPSK	108	54	19.12	19.12	19.03	21.0	0.0	
40	PI/2 BPSK	108	108	19.02	19.13	19.10	21.0	0.0	
40	PI/2 BPSK	216	0	19.10	19.17	19.01			
40	QPSK	1	1	19.20	19.24	19.21			
40	QPSK	1	108	19.17	19.16	19.06	21.0	0.0	
40	QPSK	1	214	19.06	19.16	19.06			
40	QPSK	108	0	19.06	19.15	19.06	21.0	0.0	
40	QPSK	108	54	19.16	19.17	19.06	21.0	0.0	
40	QPSK	108	108	19.14	19.16	19.05			
40	QPSK	216	0	19.13	19.17	19.06	21.0	0.0	
40	16QAM	1	1	19.14	19.16	19.09	21.0	0.0	
40	64QAM	1	1	19.08	19.15	19.04	21.0	0.0	
40	256QAM	1	1	19.22	19.32	19.30	20.0	1.0	
Channel				345000	349000	353000			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.17	19.12	19.06	21.0	0.0	
Channel				344000	349000	354000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.15	19.22	19.05	21.0	0.0	
Channel				343000	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.14	19.21	19.05	21.0	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.14	19.19	19.05	21.0	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.18	19.14	19.03	21.0	0.0	

n71 Modem A Ant0									
BW (MHz)	Modulatio n	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	PI/2 BPSK	1	1	22.71	22.81	22.78			
20	PI/2 BPSK	1	53	22.71	22.78	22.69	24.5	0.0	
20	PI/2 BPSK	1	104	22.80	22.78	22.71			
20	PI/2 BPSK	50	0	22.38	22.29	22.26	24.0	0.5	
20	PI/2 BPSK	50	28	22.74	22.78	22.75	24.5	0.0	
20	PI/2 BPSK	50	56	22.40	22.54	22.27	24.0	0.5	
20	PI/2 BPSK	100	0	22.20	22.52	22.37			
20	QPSK	1	1	22.94	22.97	22.96			
20	QPSK	1	53	22.74	22.81	22.69	24.5	0.0	
20	QPSK	1	104	22.77	22.72	22.75			
20	QPSK	50	0	21.87	21.79	21.74	23.5	1.0	
20	QPSK	50	28	22.79	22.88	22.71	24.5	0.0	
20	QPSK	50	56	21.96	21.73	21.74	23.5	1.0	
20	QPSK	100	0	21.89	21.93	21.92			
20	16QAM	1	1	22.07	21.95	21.74	23.5	1.0	
20	64QAM	1	1	20.44	20.39	20.29	22.0	2.5	
20	256QAM	1	1	19.37	19.52	19.38	20.0	4.5	
Channel				134100	136100	138100			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.90	22.94	22.86	24.5	0.0	
Channel				133600	136100	138600			
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.86	22.91	22.85	24.5	0.0	
Channel				133100	136100	139100			
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.98	22.93	22.89	24.5	0.0	

n38 PC2/3 Modem A Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.13	19.35	19.09			
40	PI/2 BPSK	1	53	19.03	19.36	19.05	21.0	0.0	
40	PI/2 BPSK	1	104	19.21	19.30	19.09			
40	PI/2 BPSK	50	0	19.08	19.36	19.18	21.0	0.0	
40	PI/2 BPSK	50	28	19.12	19.37	19.13	21.0	0.0	
40	PI/2 BPSK	50	56	19.06	19.30	19.18			
40	PI/2 BPSK	100	0	19.08	19.41	19.13	21.0	0.0	
40	QPSK	1	1	19.19	19.47	19.23			
40	QPSK	1	53	19.24	19.37	19.09	21.0	0.0	
40	QPSK	1	104	19.22	19.41	19.01			
40	QPSK	50	0	19.24	19.35	19.27	21.0	0.0	
40	QPSK	50	28	19.19	19.37	19.11	21.0	0.0	
40	QPSK	50	56	19.18	19.31	19.12			
40	QPSK	100	0	19.16	19.34	19.19	21.0	0.0	
40	16QAM	1	1	19.19	19.34	19.07	21.0	0.0	
40	64QAM	1	1	19.27	19.28	19.07	21.0	0.0	
40	256QAM	1	1	17.83	18.05	17.91	19.5	1.5	
Channel				517002	519000	520998			
Frequency (MHz)				2593.01	2595	2594.99			
30	QPSK	1	1	19.19	19.37	19.16	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	19.17	19.39	19.11	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.14	19.35	19.12	21.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.21	19.41	19.18	21.0	0.0	

n41 PC2/3 Modem A Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528500			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.33	19.50	19.28			
100	PI/2 BPSK	1	137	19.24	19.54	19.23	21.0	0.0	
100	PI/2 BPSK	1	271	19.31	19.41	19.28			
100	PI/2 BPSK	135	0	19.28	19.46	19.29	21.0	0.0	
100	PI/2 BPSK	135	69	19.23	19.47	19.33	21.0	0.0	
100	PI/2 BPSK	135	138	19.22	19.42	19.29	21.0	0.0	
100	PI/2 BPSK	270	0	19.27	19.54	19.32			
100	QPSK	1	1	19.29	19.56	19.33			
100	QPSK	1	137	19.35	19.49	19.26	21.0	0.0	
100	QPSK	1	271	19.35	19.45	19.21			
100	QPSK	135	0	19.36	19.47	19.36	21.0	0.0	
100	QPSK	135	69	19.33	19.45	19.30	21.0	0.0	
100	QPSK	135	138	19.27	19.43	19.31	21.0	0.0	
100	QPSK	270	0	19.37	19.48	19.29			
100	16QAM	1	1	19.35	19.48	19.22	21.0	0.0	
100	64QAM	1	1	19.36	19.44	19.24	21.0	0.0	
100	256QAM	1	1	17.98	18.16	18.07	19.5	1.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.31	19.51	19.31	21.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2636.02	2592.99	2648.99			
80	QPSK	1	1	19.38	19.43	19.24	21.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	19.32	19.50	19.25	21.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2626	2592.99	2659.98			
60	QPSK	1	1	19.30	19.42	19.34	21.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.34	19.55	19.35	21.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.28	19.42	19.36	21.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.38	19.42	19.29	21.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.30	19.49	19.35	21.0	0.0	

n2 Modem A Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
20	PI/2 BPSK	1	1	22.54	22.56	22.57		23.5	0.0
20	PI/2 BPSK	1	53	22.50	22.53	22.49			
20	PI/2 BPSK	1	104	22.52	22.53	22.47			
20	PI/2 BPSK	50	0	22.05	22.15	22.06	23.0	0.5	
20	PI/2 BPSK	50	28	22.52	22.55	22.58	23.5	0.0	
20	PI/2 BPSK	50	56	22.06	22.08	22.08	23.0	0.5	
20	PI/2 BPSK	100	0	22.02	22.07	22.14			
20	QPSK	1	1	22.57	22.61	22.60			
20	QPSK	1	53	22.49	22.52	22.53	23.5	0.0	
20	QPSK	1	104	22.48	22.52	22.53			
20	QPSK	50	0	21.59	21.58	21.61	22.5	1.0	
20	QPSK	50	28	22.44	22.51	22.50	23.5	0.0	
20	QPSK	50	56	21.55	21.61	21.59	22.5	1.0	
20	QPSK	100	0	21.53	21.63	21.59			
20	16QAM	1	1	21.60	21.60	21.61	22.5	1.0	
20	64QAM	1	1	20.11	20.07	20.07	21.0	2.5	
20	256QAM	1	1	18.05	18.09	18.12	19.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.44	22.50	22.53	0.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.43	22.50	22.48	0.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.47	22.55	22.53	23.5	0.0	

n7 Modem A Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
40	PI/2 BPSK	1	1	19.73	19.78	19.59	20.5	0.0	
40	PI/2 BPSK	1	108	19.77	19.73	19.54			
40	PI/2 BPSK	1	214	19.69	19.68	19.57			
40	PI/2 BPSK	108	0	19.63	19.72	19.60	20.5	0.0	
40	PI/2 BPSK	108	54	19.76	19.77	19.59	20.5	0.0	
40	PI/2 BPSK	108	108	19.72	19.81	19.50	20.5	0.0	
40	PI/2 BPSK	216	0	19.76	19.72	19.65			
40	QPSK	1	1	19.66	19.82	19.53			
40	QPSK	1	108	19.71	19.78	19.54	20.5	0.0	
40	QPSK	1	214	19.64	19.66	19.59			
40	QPSK	108	0	19.66	19.74	19.53	20.5	0.0	
40	QPSK	108	54	19.72	19.75	19.57	20.5	0.0	
40	QPSK	108	108	19.69	19.68	19.50	20.5	0.0	
40	QPSK	216	0	19.73	19.74	19.50			
40	16QAM	1	1	19.62	19.75	19.57	20.5	0.0	
40	64QAM	1	1	19.63	19.75	19.63	20.5	0.0	
40	256QAM	1	1	18.16	18.15	18.21	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.75	19.72	19.53	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	19.72	19.71	19.52	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.72	19.68	19.54	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
15	PI/2 BPSK	1	1	19.74	19.75	19.58	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.69	19.75	19.54	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	19.71	19.77	19.50	20.5	0.0	

n25 Modem A Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
40	PI/2 BPSK	1	1	22.55	22.59	22.56			
40	PI/2 BPSK	1	108	22.52	22.63	22.54	23.5	0.0	
40	PI/2 BPSK	1	214	22.60	22.63	22.53			
40	PI/2 BPSK	108	0	22.12	22.25	22.12	23.0	0.5	
40	PI/2 BPSK	108	54	22.55	22.59	22.62	23.5	0.0	
40	PI/2 BPSK	108	108	22.15	22.18	22.12	23.0	0.5	
40	PI/2 BPSK	216	0	22.04	22.11	22.15			
40	QPSK	1	1	22.67	22.69	22.64			
40	QPSK	1	108	22.52	22.57	22.60	23.5	0.0	
40	QPSK	1	214	22.63	22.59	22.60			
40	QPSK	108	0	21.63	21.65	21.69	22.5	1.0	
40	QPSK	108	54	22.48	22.64	22.60	23.5	0.0	
40	QPSK	108	108	21.63	21.69	21.66	22.5	1.0	
40	QPSK	216	0	21.57	21.67	21.66			
40	16QAM	1	1	21.69	21.68	21.62	22.5	1.0	
40	64QAM	1	1	20.15	20.10	20.13	21.0	2.5	
40	256QAM	1	1	18.10	18.10	18.16	19.0	4.5	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.64	22.65	22.57	23.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.64	22.65	22.58	23.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.60	22.62	22.58	23.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.61	22.63	22.60	23.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.60	22.64	22.59	23.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.62	22.64	22.57	23.5	0.0	

n30 Modem A Ant2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				462000							
Frequency (MHz)				2310							
10	PI/2 BPSK	1	1		12.94		14.5	0.0			
10	PI/2 BPSK	1	26		12.93						
10	PI/2 BPSK	1	50		12.78		14.5	0.0			
10	PI/2 BPSK	25	0		12.88						
10	PI/2 BPSK	25	14		12.86		14.5	0.0			
10	PI/2 BPSK	25	27		12.76						
10	PI/2 BPSK	50	0		12.69		14.5	0.0			
10	QPSK	1	1		13.11						
10	QPSK	1	26		12.95		14.5	0.0			
10	QPSK	1	50		13.01						
10	QPSK	25	0		12.91		14.5	0.0			
10	QPSK	25	14		13.00						
10	QPSK	25	27		12.67		14.5	0.0			
10	QPSK	50	0		12.88						
10	16QAM	1	1		12.99		14.5	0.0			
10	64QAM	1	1		12.89						
10	256QAM	1	1		13.03		14.5	0.0			
Channel				461500	462000	462500	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5					
5	QPSK	1	1	13.07	13.10	13.07		14.5	0.0		

n66 Modem A Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	19.29	19.30	19.25		21.0	0.0
40	PI/2 BPSK	1	108	19.17	19.26	19.27			
40	PI/2 BPSK	1	214	19.30	19.35	19.16		21.0	0.0
40	PI/2 BPSK	108	0	19.27	19.35	19.26			
40	PI/2 BPSK	108	54	19.33	19.30	19.24		21.0	0.0
40	PI/2 BPSK	108	108	19.18	19.30	19.28			
40	PI/2 BPSK	216	0	19.32	19.27	19.16		21.0	0.0
40	QPSK	1	1	19.31	19.40	19.33			
40	QPSK	1	108	19.30	19.35	19.15		21.0	0.0
40	QPSK	1	214	19.33	19.32	19.19			
40	QPSK	108	0	19.27	19.37	19.22		21.0	0.0
40	QPSK	108	54	19.21	19.39	19.30			
40	QPSK	108	108	19.34	19.29	19.19		21.0	0.0
40	QPSK	216	0	19.26	19.31	19.27			
40	16QAM	1	1	19.33	19.36	19.15		21.0	0.0
40	64QAM	1	1	19.26	19.36	19.17			
40	256QAM	1	1	19.31	19.42	19.36		20.0	1.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.28	19.31	19.23		21.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.34	19.36	19.18		21.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.30	19.36	19.18		21.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.26	19.37	19.14		21.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.26	19.35	19.19		21.0	0.0

n70 Modem A Ant2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				340500							
Frequency (MHz)				1702.5							
15	PI/2 BPSK	1	1		19.37		21.0	0.0			
15	PI/2 BPSK	1	40		19.27						
15	PI/2 BPSK	1	77		19.36		21.0	0.0			
15	PI/2 BPSK	36	0		19.40						
15	PI/2 BPSK	36	22		19.39		21.0	0.0			
15	PI/2 BPSK	36	43		19.29						
15	PI/2 BPSK	75	0		19.34		21.0	0.0			
15	QPSK	1	1		19.43						
15	QPSK	1	40		19.25		21.0	0.0			
15	QPSK	1	77		19.32						
15	QPSK	36	0		19.30		21.0	0.0			
15	QPSK	36	22		19.40						
15	QPSK	36	43		19.32		21.0	0.0			
15	QPSK	75	0		19.32						
15	16QAM	1	1		19.32		21.0	0.0			
15	64QAM	1	1		19.26						
15	256QAM	1	1		19.45		20.0	1.0			
Channel				340000	340500	341000	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				1700	1702.5	1705					
10	QPSK	1	1	19.34	19.37	19.31	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	19.37	19.37	19.31	21.0	0.0			

PC2/3 n38 Modem A Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	19.31	19.48	19.35	21.0	0.0	
40	PI2 BPSK	1	53	19.21	19.50	19.52	21.0	0.0	
40	PI2 BPSK	1	104	19.28	19.52	19.41	21.0	0.0	
40	PI2 BPSK	50	0	19.28	19.50	19.43	21.0	0.0	
40	PI2 BPSK	50	28	19.20	19.53	19.44	21.0	0.0	
40	PI2 BPSK	50	56	19.29	19.48	19.41	21.0	0.0	
40	PI2 BPSK	100	0	19.22	19.51	19.42	21.0	0.0	
40	QPSK	1	1	19.26	19.57	19.41	21.0	0.0	
40	QPSK	1	53	19.21	19.49	19.45	21.0	0.0	
40	QPSK	1	104	19.22	19.36	19.39	21.0	0.0	
40	QPSK	50	0	19.14	19.45	19.45	21.0	0.0	
40	QPSK	50	28	19.22	19.51	19.41	21.0	0.0	
40	QPSK	50	56	19.20	19.50	19.42	21.0	0.0	
40	QPSK	100	0	19.22	19.41	19.40	21.0	0.0	
40	16QAM	1	1	19.15	19.38	19.45	21.0	0.0	
40	64QAM	1	1	19.18	19.42	19.46	21.0	0.0	
40	256QAM	1	1	17.97	17.93	18.00	19.5	1.5	
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.26	19.50	19.52	21.0	0.0	
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.27	19.51	19.49	21.0	0.0	
Channel				515802	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.22	19.51	19.42	21.0	0.0	
Channel				515004	518000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2579.02	2595	2614.98			
10	QPSK	1	1	19.32	19.55	19.48	21.0	0.0	

PC2/3 n41 Modem A Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518998	529000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	19.38	19.05	19.53	21.0	0.0	
100	PI2 BPSK	1	137	19.35	19.58	19.61	21.0	0.0	
100	PI2 BPSK	1	271	19.34	19.68	19.54	21.0	0.0	
100	PI2 BPSK	135	0	19.41	19.66	19.55	21.0	0.0	
100	PI2 BPSK	135	69	19.27	19.66	19.61	21.0	0.0	
100	PI2 BPSK	135	138	19.38	19.65	19.46	21.0	0.0	
100	PI2 BPSK	270	0	19.29	19.67	19.48	21.0	0.0	
100	QPSK	1	1	19.33	19.69	19.60	21.0	0.0	
100	QPSK	1	137	19.36	19.64	19.57	21.0	0.0	
100	QPSK	1	271	19.34	19.55	19.57	21.0	0.0	
100	QPSK	135	0	19.31	19.58	19.60	21.0	0.0	
100	QPSK	135	69	19.35	19.67	19.59	21.0	0.0	
100	QPSK	135	138	19.26	19.66	19.49	21.0	0.0	
100	QPSK	270	0	19.29	19.57	19.57	21.0	0.0	
100	16QAM	1	1	19.31	19.54	19.54	21.0	0.0	
100	64QAM	1	1	19.31	19.68	19.51	21.0	0.0	
100	256QAM	1	1	18.04	18.10	18.10	19.5	1.5	
Channel				508200	518998	529998			
Frequency (MHz)				2541	2592.99	2644.99			
90	QPSK	1	1	19.40	19.67	19.59	21.0	0.0	
Channel				507204	518998	529998			
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	19.38	19.55	19.54	21.0	0.0	
Channel				506202	518998	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.36	19.59	19.52	21.0	0.0	
Channel				505200	518998	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.31	19.64	19.48	21.0	0.0	
Channel				504204	518998	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.39	19.68	19.54	21.0	0.0	
Channel				503202	518998	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.28	19.62	19.56	21.0	0.0	
Channel				502200	518998	535000			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.40	19.59	19.56	21.0	0.0	
Channel				501204	518998	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.30	19.56	19.59	21.0	0.0	

n48_FCC Modem A Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3670	3624.99	3679.98			
40	PI2 BPSK	1	1	15.25	15.30	15.14			
40	PI2 BPSK	1	53	15.16	15.27	15.15	17.0	0.0	
40	PI2 BPSK	1	104	15.20	15.29	15.19			
40	PI2 BPSK	50	0	14.79	14.91	14.70	16.5	0.5	
40	PI2 BPSK	50	28	15.25	15.28	15.29	17.0	0.0	
40	PI2 BPSK	50	56	14.82	14.86	14.78	16.5	0.5	
40	PI2 BPSK	100	0	14.68	14.70	14.84	16.0	1.0	
40	QPSK	1	1	15.28	15.32	15.25			
40	QPSK	1	53	15.18	15.23	15.20			
40	QPSK	1	104	15.23	15.25	15.31			
40	QPSK	50	0	14.31	14.31	14.36	16.0	1.0	
40	QPSK	50	28	15.17	15.24	15.22	17.0	0.0	
40	QPSK	50	56	14.31	14.31	14.33	16.0	1.0	
40	QPSK	100	0	14.17	14.34	14.27	16.0	1.0	
40	16QAM	1	1	12.85	12.75	12.81	14.5	2.5	
40	256QAM	1	1	10.70	10.76	10.86	12.5	4.5	
Channel				637334	641666	646000			
Frequency (MHz)				3560.01	3624.99	3670			
20	QPSK	1	1	15.21	15.27	15.17	17.0	0.0	
Channel				637000	641666	646332			
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	15.19	15.26	15.17	17.0	0.0	

PC3/PC2 Part27O n77 Modem A Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3850	3840	3850			
100	PI2 BPSK	1	1	22.48	22.48	22.48			
100	PI2 BPSK	1	137	22.52	22.43	22.42	24.0	0.0	
100	PI2 BPSK	1	271	22.43	22.54	22.48			
100	PI2 BPSK	135	0	22.42	22.54	22.54	24.0	0.0	
100	PI2 BPSK	135	69	22.40	22.42	22.36	24.0	0.0	
100	PI2 BPSK	135	138	22.44	22.47	22.49			
100	PI2 BPSK	270	0	22.53	22.43	22.41	24.0	0.0	
100	QPSK	1	1	22.44	22.56	22.55			
100	QPSK	1	137	22.46	22.46	22.45	24.0	0.0	
100	QPSK	1	271	22.55	22.51	22.55			
100	QPSK	135	0	22.45	22.45	22.44	24.0	0.0	
100	QPSK	135	69	22.50	22.51	22.46	24.0	0.0	
100	QPSK	135	138	22.50	22.45	22.46			
100	QPSK	270	0	22.48	22.53	22.52	24.0	0.0	
100	16QAM	1	1	22.44	22.43	22.53	24.0	0.0	
100	64QAM	1	1	22.48	22.48	22.45	24.0	0.0	
100	256QAM	1	1	20.20	20.27	20.19	22.0	2.0	
Channel				64869	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3850.01			
90	QPSK	1	1	22.48	22.48	22.48	24.0	0.0	
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3748.01	3840	3840.02			
80	QPSK	1	1	22.48	22.48	22.41	24.0	0.0	
Channel				64800	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3840			
70	QPSK	1	1	22.48	22.48	22.48	24.0	0.0	
Channel				64869	65000	65334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3750.02	3840	3850.01			
60	QPSK	1	1	22.48	22.48	22.48	24.0	0.0	
Channel				64834	65000	65368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3850.02			
50	QPSK	1	1	22.48	22.48	22.48	24.0	0.0	
Channel				64800	65000	65400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3860			
40	QPSK	1	1	22.48	22.48	22.48	24.0	0.0	
Channel				64765	65000	65434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3718.02	3840	3850.01			
30	QPSK	1	1	22.48	22.48	22.48	24.0	0.0	
Channel				64734	65000	65468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3845	3870.02			
20	QPSK	1	1	22.48	22.48	22.48	24.0	0.0	
Channel				64768	65000	65434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3872.51			
15	QPSK	1	1	22.48	22.48	22.48	24.0	0.0	
Channel				64700	65000	65500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3875			
10	QPSK	1	1	22.48	22.48	22.48	24.0	0.0	

PC3/PC2 Part27Q n77 Modem A Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel					63334				
Frequency (MHz)					3600.01				
100	PI2 BPSK	1	1		22.33				
100	PI2 BPSK	1	137		22.40		24.0	0.0	
100	PI2 BPSK	1	271		22.38				
100	PI2 BPSK	135	0		22.42		24.0	0.0	
100	PI2 BPSK	135	69		22.33		24.0	0.0	
100	PI2 BPSK	135	138		22.33		24.0	0.0	
100	PI2 BPSK	270	0		22.34		24.0	0.0	
100	QPSK	1	1		22.47				
100	QPSK	1	137		22.38		24.0	0.0	
100	QPSK	1	271		22.37				
100	QPSK	135	0		22.31		24.0	0.0	
100	QPSK	135	69		22.43		24.0	0.0	
100	QPSK	135	138		22.41		24.0	0.0	
100	QPSK	270	0		22.33		24.0	0.0	
100	16QAM	1	1		22.32		24.0	0.0	
100	64QAM	1	1		22.35		24.0	0.0	
100	256QAM	1	1		20.38		22.0	2.0	
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.31	22.25	22.29	24.0	0.0	
Channel				63268	63334	63400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	22.27	22.19	22.22	24.0	0.0	
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.29	22.32	22.23	24.0	0.0	
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	22.32	22.31	22.31	24.0	0.0	
Channel				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	22.23	22.22	22.35	24.0	0.0	
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.24	22.34	22.34	24.0	0.0	
Channel				63100	63334	63595	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.34	22.34	22.33	24.0	0.0	
Channel				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.32	22.24	22.24	24.0	0.0	
Channel				63050	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	22.25	22.23	22.30	24.0	0.0	
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	22.35	22.22	22.28	24.0	0.0	

PC3/PC2 Part27O n78 Modem A Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3790	3790	3790		
100	PI2 BPSK	1	1	22.31	22.31	22.31		
100	PI2 BPSK	1	137	22.38	22.29	22.26	24.0	0.0
100	PI2 BPSK	1	271	22.35	22.27	22.25		
100	PI2 BPSK	135	0	22.35	22.35	22.33	24.0	0.0
100	PI2 BPSK	135	69	22.35	22.37	22.29	24.0	0.0
100	PI2 BPSK	135	136	22.36	22.37	22.26	24.0	0.0
100	PI2 BPSK	270	0	22.32	22.34	22.37		
100	QPSK	1	1	22.29	22.43	22.29		
100	QPSK	1	137	22.31	22.24	22.35	24.0	0.0
100	QPSK	1	271	22.35	22.24	22.35		
100	QPSK	135	0	22.24	22.27	22.29	24.0	0.0
100	QPSK	135	69	22.30	22.37	22.35	24.0	0.0
100	QPSK	135	136	22.31	22.30	22.24	24.0	0.0
100	QPSK	270	0	22.36	22.35	22.33		
100	16QAM	1	1	22.29	22.36	22.29	24.0	0.0
100	64QAM	1	1	22.32	22.32	22.39	24.0	0.0
100	256QAM	1	1	20.07	20.03	20.03	22.0	2.0
Channel				649968	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.13	22.16	22.20	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	22.19	22.24	22.14	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.23	22.20	22.24	24.0	0.0
Channel				648968	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.23	22.20	22.17	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	22.22	22.18	22.17	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.24	22.14	22.27	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	22.23	22.27	22.16	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3750.02		
20	QPSK	1	1	22.17	22.27	22.19	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	22.20	22.11	22.13	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.12	22.13	22.13	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel					633334			
Frequency (MHz)					3460.01			
100	PI2 BPSK	1	1		22.42			
100	PI2 BPSK	1	137		22.41		24.0	0.0
100	PI2 BPSK	1	271		22.34			
100	PI2 BPSK	135	0		22.41		24.0	0.0
100	PI2 BPSK	135	69		22.40		24.0	0.0
100	PI2 BPSK	135	136		22.45		24.0	0.0
100	PI2 BPSK	270	0		22.34			
100	QPSK	1	1		22.47			
100	QPSK	1	137		22.33		24.0	0.0
100	QPSK	1	271		22.44			
100	QPSK	135	0		22.41		24.0	0.0
100	QPSK	135	69		22.40		24.0	0.0
100	QPSK	135	136		22.52		24.0	0.0
100	QPSK	270	0		22.31			
100	16QAM	1	1		22.45		24.0	0.0
100	64QAM	1	1		22.33		24.0	0.0
100	256QAM	1	1		20.38		22.0	2.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.31	22.34	22.37	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	22.40	22.29	22.43	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	22.35	22.43	22.39	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	22.35	22.29	22.41	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	22.33	22.39	22.28	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3505.01	3530.01		
40	QPSK	1	1	22.32	22.36	22.39	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	22.41	22.31	22.30	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3505.01	3540		
20	QPSK	1	1	22.30	22.38	22.32	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	22.42	22.33	22.30	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	22.37	22.39	22.35	24.0	0.0

n2 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1690	1690	1900			
Frequency (MHz)				372000	376000	380000			
20	PI2 BPSK	1	1	21.66	21.71	21.52		23.5	0.0
20	PI2 BPSK	1	53	21.61	21.67	21.54			
20	PI2 BPSK	1	104	21.64	21.71	21.52			
20	PI2 BPSK	50	0	21.32	21.31	21.19	23.0	0.5	
20	PI2 BPSK	50	28	21.59	21.73	21.55	23.5	0.0	
20	PI2 BPSK	50	56	21.27	21.34	21.14	23.0	0.5	
20	PI2 BPSK	100	0	21.28	21.42	21.22			
20	QPSK	1	1	21.78	21.81	21.74			
20	QPSK	1	53	21.66	21.66	21.55	23.5	0.0	
20	QPSK	1	104	21.60	21.72	21.51			
20	QPSK	50	0	20.79	20.80	20.66	22.5	1.0	
20	QPSK	50	28	21.74	21.76	21.60	23.5	0.0	
20	QPSK	50	56	20.78	20.73	20.64	22.5	1.0	
20	QPSK	100	0	20.83	20.85	20.72			
20	16QAM	1	1	20.87	20.95	20.77	22.5	1.0	
20	64QAM	1	1	19.28	19.33	19.14	21.0	2.5	
20	256QAM	1	1	17.38	17.28	17.24	19.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1657.5	1680	1902.5			
15	QPSK	1	1	21.70	21.71	21.69	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1655	1680	1905			
10	QPSK	1	1	21.70	21.75	21.68	23.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1652.5	1680	1907.5			
5	QPSK	1	1	21.68	21.73	21.65	23.5	0.0	

n5 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	836			
20	PI2 BPSK	1	1	22.69	22.74	22.51		24.5	0.0
20	PI2 BPSK	1	53	22.68	22.69	22.55			
20	PI2 BPSK	1	104	22.70	22.83	22.59			
20	PI2 BPSK	50	0	22.37	22.41	22.31	24.0	0.5	
20	PI2 BPSK	50	28	22.68	22.82	22.65	24.5	0.0	
20	PI2 BPSK	50	56	22.39	22.33	22.16	24.0	0.5	
20	PI2 BPSK	100	0	22.30	22.51	22.27			
20	QPSK	1	1	22.88	22.90	22.85			
20	QPSK	1	53	22.76	22.70	22.62	24.5	0.0	
20	QPSK	1	104	22.72	22.74	22.70			
20	QPSK	50	0	21.91	21.88	21.78	23.5	1.0	
20	QPSK	50	28	22.82	22.80	22.67	24.5	0.0	
20	QPSK	50	56	21.81	21.84	21.69	23.5	1.0	
20	QPSK	100	0	21.77	21.84	21.74			
20	16QAM	1	1	21.86	22.07	21.77	23.5	1.0	
20	64QAM	1	1	20.26	20.32	20.15	22.0	2.5	
20	256QAM	1	1	18.41	18.33	18.26	20.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.79	22.82	22.83	24.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.72	22.80	22.74	24.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.83	22.82	22.74	24.5	0.0	

n7 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	18.73	18.74	18.64		20.5	0.0
40	PI2 BPSK	1	108	18.62	18.85	18.53			
40	PI2 BPSK	1	214	18.61	18.70	18.67			
40	PI2 BPSK	108	0	18.72	18.81	18.58	20.5	0.0	
40	PI2 BPSK	108	54	18.67	18.74	18.54	20.5	0.0	
40	PI2 BPSK	108	108	18.69	18.71	18.67	20.5	0.0	
40	PI2 BPSK	216	0	18.76	18.79	18.59			
40	QPSK	1	1	18.70	18.86	18.59			
40	QPSK	1	108	18.64	18.76	18.59	20.5	0.0	
40	QPSK	1	214	18.75	18.84	18.60			
40	QPSK	108	0	18.68	18.83	18.67	20.5	0.0	
40	QPSK	108	54	18.69	18.84	18.64	20.5	0.0	
40	QPSK	108	108	18.76	18.77	18.67	20.5	0.0	
40	QPSK	216	0	18.69	18.83	18.57			
40	16QAM	1	1	18.68	18.75	18.59	20.5	0.0	
40	64QAM	1	1	18.69	18.73	18.60	20.5	0.0	
40	256QAM	1	1	17.34	17.23	17.21	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.74	18.76	18.60	20.5	0.0	
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.65	18.85	18.68	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	18.74	18.73	18.69	20.5	0.0	
Channel				501000	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	18.75	18.77	18.57	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.73	18.80	18.58	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.65	18.78	18.57	20.5	0.0	

n12 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	22.62	22.70	22.64		24.5	0.0
15	PI2 BPSK	1	40	22.61	22.64	22.67			
15	PI2 BPSK	1	77	22.62	22.79	22.53			
15	PI2 BPSK	36	0	22.31	22.35	22.24	24.0	0.5	
15	PI2 BPSK	36	22	22.60	22.75	22.59	24.5	0.0	
15	PI2 BPSK	36	43	22.35	22.27	22.11	24.0	0.5	
15	PI2 BPSK	75	0	22.24	22.46	22.19			
15	QPSK	1	1	22.81	22.85	22.81			
15	QPSK	1	40	22.70	22.65	22.54	24.5	0.0	
15	QPSK	1	77	22.68	22.67	22.62			
15	QPSK	36	0	21.86	21.80	21.73	23.5	1.0	
15	QPSK	36	22	22.77	22.62	22.61	24.5	0.0	
15	QPSK	36	43	21.74	21.77	21.61	23.5	1.0	
15	QPSK	75	0	21.71	21.76	21.67			
15	16QAM	1	1	21.78	22.02	21.72	23.5	1.0	
15	64QAM	1	1	20.19	20.27	20.08	22.0	2.5	
15	256QAM	1	1	18.35	18.26	18.22	20.0	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.74	22.81	22.73	24.5	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.76	22.81	22.74	24.5	0.0	

n13 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				156400					
Frequency (MHz)				762					
10	PI2 BPSK	1	1		22.49		24.0	0.0	
10	PI2 BPSK	1	26		22.32				
10	PI2 BPSK	1	50		22.32				
10	PI2 BPSK	25	0		21.79		23.5	0.5	
10	PI2 BPSK	25	14		22.36		24.0	0.0	
10	PI2 BPSK	25	27		22.14		23.5	0.5	
10	PI2 BPSK	50	0		22.02				
10	QPSK	1	1		22.57				
10	QPSK	1	26		22.44		24.0	0.0	
10	QPSK	1	50		22.21				
10	QPSK	25	0		21.35		23.0	1.0	
10	QPSK	25	14		22.52		24.0	0.0	
10	QPSK	25	27		21.28				
10	QPSK	50	0		21.47		23.0	1.0	
10	16QAM	1	1		21.44		23.0	1.0	
10	64QAM	1	1		19.89		21.5	2.5	
10	256QAM	1	1		18.09		18.5	4.5	
Channel				155900		156900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				779.5		784.5			
5	QPSK	1	1		22.51	22.54	22.50	24.0	0.0

n14 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				158600					
Frequency (MHz)				763					
10	PI2 BPSK	1	1		22.76		24.5	0.0	
10	PI2 BPSK	1	26		22.58				
10	PI2 BPSK	1	50		22.63				
10	PI2 BPSK	25	0		22.16		24.0	0.5	
10	PI2 BPSK	25	14		22.57		24.5	0.0	
10	PI2 BPSK	25	27		22.46		24.0	0.5	
10	PI2 BPSK	50	0		22.27				
10	QPSK	1	1		22.86				
10	QPSK	1	26		22.78		24.5	0.0	
10	QPSK	1	50		22.67				
10	QPSK	25	0		21.65		23.5	1.0	
10	QPSK	25	14		22.76		24.5	0.0	
10	QPSK	25	27		21.70				
10	QPSK	50	0		21.73		23.5	1.0	
10	16QAM	1	1		21.67		23.5	1.0	
10	64QAM	1	1		20.18		22.0	2.5	
10	256QAM	1	1		18.32		20.0	4.5	
Channel				158100		158900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				760.5		763	765.5		
5	QPSK	1	1	22.80	22.83	22.75	24.5	0.0	

n25 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000		376500	379000		
Frequency (MHz)				1670		1682.5	1695		
40	PI2 BPSK	1	1		22.10	22.18	21.96	23.5	0.0
40	PI2 BPSK	1	108		22.08	22.08	22.02		
40	PI2 BPSK	1	214		22.03	22.16	22.01		
40	PI2 BPSK	108	0		21.79	21.80	21.60	23.0	0.5
40	PI2 BPSK	108	54		22.04	22.18	21.98	23.5	0.0
40	PI2 BPSK	108	108		21.70	21.82	21.60	23.0	0.5
40	PI2 BPSK	216	0		21.71	21.93	21.65		
40	QPSK	1	1		22.16	22.24	22.23		
40	QPSK	1	108		22.08	22.12	22.04	23.5	0.0
40	QPSK	1	214		22.05	22.13	21.98		
40	QPSK	108	0		21.25	21.26	21.16	22.5	1.0
40	QPSK	108	54		22.22	22.23	22.00	23.5	0.0
40	QPSK	108	108		21.21	21.21	21.03	22.5	1.0
40	QPSK	216	0		21.31	21.34	21.22		
40	16QAM	1	1		21.27	21.38	21.20	22.5	1.0
40	64QAM	1	1		19.75	19.81	19.55	21.0	2.5
40	256QAM	1	1		17.71	17.79	17.69	18.0	4.5
Channel				373000		376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865		1882.5	1900		
30	QPSK	1	1		22.08	22.21	22.20	23.5	0.0
Channel				372500		376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5		1882.5	1902.5		
25	QPSK	1	1		22.08	22.14	22.18	23.5	0.0
Channel				372000		376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860		1882.5	1905		
20	QPSK	1	1		22.10	22.16	22.16	23.5	0.0
Channel				371500		376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5		1882.5	1907.5		
15	QPSK	1	1		22.08	22.13	22.10	23.5	0.0
Channel				371000		376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855		1882.5	1910		
10	QPSK	1	1		22.10	22.11	22.17	23.5	0.0
Channel				370500		376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5		1882.5	1912.5		
5	QPSK	1	1		22.06	22.13	22.14	23.5	0.0

n26 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800		166300	167800		
Frequency (MHz)				824		831.5	839		
20	PI2 BPSK	1	1		22.72	22.68	22.76	24.5	0.0
20	PI2 BPSK	1	53		22.72	22.73	22.74		
20	PI2 BPSK	1	104		22.69	22.58	22.81		
20	PI2 BPSK	50	0		22.35	22.33	22.42	24.0	0.5
20	PI2 BPSK	50	28		22.68	22.61	22.80	24.5	0.0
20	PI2 BPSK	50	56		22.36	22.20	22.52	24.0	0.5
20	PI2 BPSK	100	0		22.29	22.25	22.56		
20	QPSK	1	1		22.67	22.76	22.53		
20	QPSK	1	53		22.80	22.80	22.75	24.5	0.0
20	QPSK	1	104		22.80	22.62	22.77		
20	QPSK	50	0		21.84	21.80	21.84	23.5	1.0
20	QPSK	50	28		22.80	22.70	22.86	24.5	0.0
20	QPSK	50	56		21.76	21.64	21.77		
20	QPSK	100	0		21.77	21.79	21.67	23.5	1.0
20	16QAM	1	1		21.87	21.79	22.10	23.5	1.0
20	64QAM	1	1		20.23	20.16	20.30	22.0	2.5
20	256QAM	1	1		18.36	18.31	18.38	20.0	4.5
Channel				164300		166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5		831.5	841.5		
15	QPSK	1	1		22.71	22.90	22.78	24.5	0.0
Channel				163800		166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819		831.5	844		
10	QPSK	1	1		22.62	22.92	22.77	24.5	0.0
Channel				163300		166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5		831.5	846.5		
5	QPSK	1	1		22.69	22.91	22.75	24.5	0.0

n30 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI2 BPSK	1	1	12.88				14.5	0.0
10	PI2 BPSK	1	26	12.89					
10	PI2 BPSK	1	50	12.81					
10	PI2 BPSK	25	0	12.53				14.5	0.0
10	PI2 BPSK	25	14	12.78				14.5	0.0
10	PI2 BPSK	25	27	12.83				14.5	0.0
10	PI2 BPSK	50	0	12.76					
10	QPSK	1	1	13.16					
10	QPSK	1	26	12.95				14.5	0.0
10	QPSK	1	50	12.92					
10	QPSK	25	0	13.05				14.5	0.0
10	QPSK	25	14	13.10				14.5	0.0
10	QPSK	25	27	12.83					
10	QPSK	50	0	12.62				14.5	0.0
10	16QAM	1	1	12.88				14.5	0.0
10	64QAM	1	1	12.82				14.5	0.0
10	256QAM	1	1	12.96				14.5	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	12.91	13.01	13.04		14.5	0.0

n66 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000		349000	352000		
Frequency (MHz)				1730		1745	1760		
40	PI2 BPSK	1	1	19.11	19.16	19.09		21.0	0.0
40	PI2 BPSK	1	108	19.07	19.21	19.07			
40	PI2 BPSK	1	214	19.12	19.23	19.19			
40	PI2 BPSK	108	0	19.06	19.16	19.07	21.0	0.0	
40	PI2 BPSK	108	54	19.14	19.20	19.06	21.0	0.0	
40	PI2 BPSK	108	108	19.07	19.24	19.08	21.0	0.0	
40	PI2 BPSK	216	0	19.11	19.20	19.20	21.0	0.0	
40	QPSK	1	1	19.27	19.34	19.31			
40	QPSK	1	108	19.12	19.21	19.16	21.0	0.0	
40	QPSK	1	214	19.10	19.20	19.16			
40	QPSK	108	0	19.10	19.16	19.23	21.0	0.0	
40	QPSK	108	54	19.23	19.25	19.12	21.0	0.0	
40	QPSK	108	108	19.12	19.17	19.18			
40	QPSK	216	0	19.19	19.20	19.23	21.0	0.0	
40	16QAM	1	1	19.12	19.23	19.21	21.0	0.0	
40	64QAM	1	1	19.06	19.26	19.19	21.0	0.0	
40	256QAM	1	1	19.26	19.30	19.17	20.0	1.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1726	1745	1765			
30	QPSK	1	1	19.20	19.32	19.29	21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.19	19.31	19.26	21.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.25	19.30	19.24	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.22	19.32	19.20	21.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.27	19.30	19.26	21.0	0.0	

n71 Modem B Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600		136100	137600		
Frequency (MHz)				673		680.5	688		
20	PI2 BPSK	1	1	22.80	22.86	22.70		24.5	0.0
20	PI2 BPSK	1	53	22.81	22.89	22.75			
20	PI2 BPSK	1	104	22.75	22.89	22.86			
20	PI2 BPSK	50	0	22.44	22.56	22.43	24.0	0.5	
20	PI2 BPSK	50	28	22.82	22.82	22.77	24.5	0.0	
20	PI2 BPSK	50	56	22.49	22.44	22.31			
20	PI2 BPSK	100	0	22.31	22.57	22.31	24.0	0.5	
20	QPSK	1	1	22.92	23.01	23.00			
20	QPSK	1	53	22.86	22.85	22.83	24.5	0.0	
20	QPSK	1	104	22.83	22.85	22.90			
20	QPSK	50	0	22.11	21.93	21.86	23.5	1.0	
20	QPSK	50	28	22.88	23.00	22.81	24.5	0.0	
20	QPSK	50	56	21.86	21.85	21.74	23.5	1.0	
20	QPSK	100	0	21.90	21.92	21.86			
20	16QAM	1	1	21.98	22.20	21.92	23.5	1.0	
20	64QAM	1	1	20.29	20.34	20.22	22.0	2.5	
20	256QAM	1	1	18.50	18.53	18.45	20.0	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.87	22.94	22.91	24.5	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.83	22.93	22.90	24.5	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				666.5	680.5	695.5			
5	QPSK	1	1	22.81	22.87	22.94	24.5	0.0	

PC2/3 n38 Modem B Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.47	19.42	19.49			
40	PI/2 BPSK	1	53	19.40	19.55	19.44	21.0	0.0	
40	PI/2 BPSK	1	104	19.36	19.51	19.42			
40	PI/2 BPSK	50	0	19.47	19.59	19.51	21.0	0.0	
40	PI/2 BPSK	50	28	19.47	19.59	19.37	21.0	0.0	
40	PI/2 BPSK	50	56	19.46	19.49	19.48			
40	PI/2 BPSK	100	0	19.42	19.51	19.42			
40	QPSK	1	1	19.41	19.65	19.49			
40	QPSK	1	53	19.49	19.59	19.53	21.0	0.0	
40	QPSK	1	104	19.47	19.42	19.44			
40	QPSK	50	0	19.47	19.49	19.36	21.0	0.0	
40	QPSK	50	28	19.46	19.64	19.49	21.0	0.0	
40	QPSK	50	56	19.55	19.58	19.52			
40	QPSK	100	0	19.48	19.62	19.41	21.0	0.0	
40	16QAM	1	1	19.55	19.52	19.56	21.0	0.0	
40	64QAM	1	1	19.40	19.45	19.45	21.0	0.0	
40	256QAM	1	1	18.07	18.08	18.12	19.5	1.5	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.45	19.49	19.39	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2595	2595	2610			
20	QPSK	1	1	19.49	19.47	19.43	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.37	19.40	19.43	21.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.49	19.42	19.43	21.0	0.0	

PC2/3 n41 Modem B Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	520000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.65	19.58	19.58			
100	PI/2 BPSK	1	137	19.57	19.69	19.65	21.0	0.0	
100	PI/2 BPSK	1	271	19.53	19.66	19.63			
100	PI/2 BPSK	135	0	19.59	19.72	19.61	21.0	0.0	
100	PI/2 BPSK	135	69	19.57	19.69	19.56	21.0	0.0	
100	PI/2 BPSK	135	138	19.63	19.60	19.58			
100	PI/2 BPSK	270	0	19.57	19.64	19.59			
100	QPSK	1	1	19.61	19.75	19.67			
100	QPSK	1	137	19.65	19.70	19.65	21.0	0.0	
100	QPSK	1	271	19.57	19.59	19.60			
100	QPSK	135	0	19.64	19.61	19.58	21.0	0.0	
100	QPSK	135	69	19.63	19.74	19.60	21.0	0.0	
100	QPSK	135	138	19.67	19.73	19.61			
100	QPSK	270	0	19.64	19.70	19.63	21.0	0.0	
100	16QAM	1	1	19.65	19.66	19.66	21.0	0.0	
100	64QAM	1	1	19.56	19.62	19.63	21.0	0.0	
100	256QAM	1	1	18.17	18.27	18.28	19.5	1.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.59	19.55	19.57	21.0	0.0	
Channel				507204	518598	529996			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.63	19.71	19.69	21.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.61	19.59	19.55	21.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.51	19.70	19.67	21.0	0.0	
Channel				504204	518598	532996			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.65	19.65	19.65	21.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.64	19.62	19.54	21.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.59	19.71	19.61	21.0	0.0	
Channel				501204	518598	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.65	19.73	19.61	21.0	0.0	

n2 Modem B Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.48	22.51	22.37			
20	PI2 BPSK	1	53	22.37	22.50	22.17	23.5	0.0	
20	PI2 BPSK	1	104	22.36	22.57	22.39			
20	PI2 BPSK	50	0	22.01	21.92	22.04	23.0	0.5	
20	PI2 BPSK	50	28	22.51	22.47	22.34	23.5	0.0	
20	PI2 BPSK	50	56	22.16	22.36	21.97	23.0	0.5	
20	PI2 BPSK	100	0	21.93	22.36	21.80			
20	QPSK	1	1	22.52	22.58	22.57			
20	QPSK	1	53	22.42	22.50	22.42	23.5	0.0	
20	QPSK	1	104	22.28	22.49	22.38			
20	QPSK	50	0	21.30	21.35	21.49	22.5	1.0	
20	QPSK	50	28	22.51	22.54	22.43	23.5	0.0	
20	QPSK	50	56	21.64	21.63	21.61	22.5	1.0	
20	QPSK	100	0	21.63	21.65	21.41			
20	16QAM	1	1	21.71	21.71	21.58	22.5	1.0	
20	64QAM	1	1	20.10	19.99	19.77	21.0	2.5	
20	256QAM	1	1	18.09	18.23	18.17	19.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.48	22.48	22.51	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	22.44	22.53	22.48	23.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	22.42	22.53	22.49	23.5	0.0	

n7 Modem B Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	19.60	19.67	19.58			
40	PI2 BPSK	1	108	19.65	19.64	19.48	20.5	0.0	
40	PI2 BPSK	1	214	19.62	19.57	19.53			
40	PI2 BPSK	108	0	19.60	19.60	19.49	20.5	0.0	
40	PI2 BPSK	108	54	19.65	19.63	19.45	20.5	0.0	
40	PI2 BPSK	108	108	19.56	19.40	19.58	20.5	0.0	
40	PI2 BPSK	216	0	19.62	19.62	19.48			
40	QPSK	1	1	19.56	19.71	19.58			
40	QPSK	1	108	19.61	19.66	19.54	20.5	0.0	
40	QPSK	1	214	19.63	19.62	19.55			
40	QPSK	108	0	19.58	19.65	19.48	20.5	0.0	
40	QPSK	108	54	19.55	19.70	19.49	20.5	0.0	
40	QPSK	108	108	19.58	19.69	19.48			
40	QPSK	216	0	19.52	19.65	19.60	20.5	0.0	
40	16QAM	1	1	19.64	19.69	19.52	20.5	0.0	
40	64QAM	1	1	19.61	19.56	19.46	20.5	0.0	
40	256QAM	1	1	18.17	18.32	18.21	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.58	19.57	19.55	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.65	19.61	19.56	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	19.62	19.59	19.59	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	19.65	19.57	19.49	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.67	19.64	19.49	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.54	19.61	19.45	20.5	0.0	

n25 Modem B Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI2 BPSK	1	1	22.56	22.84	22.54			
40	PI2 BPSK	1	108	22.53	22.83	22.25	23.5	0.0	
40	PI2 BPSK	1	214	22.43	22.64	22.49			
40	PI2 BPSK	108	0	22.14	22.05	22.15	23.0	0.5	
40	PI2 BPSK	108	54	22.58	22.52	22.47	23.5	0.0	
40	PI2 BPSK	108	108	22.31	22.46	22.11	23.0	0.5	
40	PI2 BPSK	216	0	22.06	22.45	21.94			
40	QPSK	1	1	22.67	22.68	22.65			
40	QPSK	1	108	22.52	22.62	22.51	23.5	0.0	
40	QPSK	1	214	22.38	22.61	22.45			
40	QPSK	108	0	21.42	21.50	21.61	22.5	1.0	
40	QPSK	108	54	22.61	22.66	22.54	23.5	0.0	
40	QPSK	108	108	21.73	21.80	21.71	22.5	1.0	
40	QPSK	216	0	21.74	21.75	21.66			
40	16QAM	1	1	21.80	21.82	21.66	22.5	1.0	
40	64QAM	1	1	20.17	20.03	19.90	21.0	2.5	
40	256QAM	1	1	18.20	18.35	18.25	19.0	4.5	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.58	22.61	22.80	23.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	22.57	22.61	22.55	23.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.56	22.61	22.62	23.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1917.5			
15	QPSK	1	1	22.57	22.62	22.56	23.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1	22.62	22.63	22.55	23.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1912.5			
5	QPSK	1	1	22.60	22.63	22.62	23.5	0.0	

n30 Modem B Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		12.84		14.5	0.0	
10	PI/2 BPSK	1	28		12.89				
10	PI/2 BPSK	1	50		12.74				
10	PI/2 BPSK	25	0		12.63		14.5	0.0	
10	PI/2 BPSK	25	14		12.92		14.5	0.0	
10	PI/2 BPSK	25	27		12.65		14.5	0.0	
10	PI/2 BPSK	50	0		12.92				
10	QPSK	1	1		13.18		14.5	0.0	
10	QPSK	1	26		12.85				
10	QPSK	1	50		13.15				
10	QPSK	25	0		12.92		14.5	0.0	
10	QPSK	25	14		13.00		14.5	0.0	
10	QPSK	25	27		12.78				
10	QPSK	50	0		12.68		14.5	0.0	
10	16QAM	1	1		13.02		14.5	0.0	
10	64QAM	1	1		13.02		14.5	0.0	
10	256QAM	1	1		13.00		14.5	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	13.00	12.95	13.05	14.5	0.0	

n66 Modem B Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000		349000	352000		
Frequency (MHz)				1730		1745	1760		
40	PI/2 BPSK	1	1	19.32	19.27	19.23	21.0	0.0	
40	PI/2 BPSK	1	108	19.24	19.34	19.19			
40	PI/2 BPSK	1	214	19.20	19.32	19.31			
40	PI/2 BPSK	108	0	19.28	19.30	19.24	21.0	0.0	
40	PI/2 BPSK	108	54	19.28	19.33	19.19	21.0	0.0	
40	PI/2 BPSK	108	108	19.15	19.33	19.26	21.0	0.0	
40	PI/2 BPSK	216	0	19.20	19.35	19.30			
40	QPSK	1	1	19.37	19.50	19.42	21.0	0.0	
40	QPSK	1	108	19.24	19.32	19.32			
40	QPSK	1	214	19.27	19.32	19.25			
40	QPSK	108	0	19.26	19.34	19.27	21.0	0.0	
40	QPSK	108	54	19.40	19.44	19.23	21.0	0.0	
40	QPSK	108	108	19.21	19.39	19.32			
40	QPSK	216	0	19.34	19.42	19.40	21.0	0.0	
40	16QAM	1	1	19.20	19.37	19.27	21.0	0.0	
40	64QAM	1	1	19.26	19.35	19.29	21.0	0.0	
40	256QAM	1	1	19.40	19.48	19.38	20.0	1.0	
Channel				345000		349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725		1745	1765		
30	QPSK	1	1	19.36	19.36	19.38	21.0	0.0	
Channel				344000		349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720		1745	1770		
20	QPSK	1	1	19.36	19.35	19.34	21.0	0.0	
Channel				343500		349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5		1745	1772.5		
15	QPSK	1	1	19.36	19.42	19.38	21.0	0.0	
Channel				343000		349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715		1745	1775		
10	QPSK	1	1	19.35	19.37	19.35	21.0	0.0	
Channel				342500		349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5		1745	1777.5		
5	QPSK	1	1	19.36	19.44	19.34	21.0	0.0	

n70 Modem B Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340500					
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1		19.23		21.0	0.0	
15	PI/2 BPSK	1	40		19.15				
15	PI/2 BPSK	1	77		19.24				
15	PI/2 BPSK	36	0		19.19		21.0	0.0	
15	PI/2 BPSK	36	22		19.25		21.0	0.0	
15	PI/2 BPSK	36	43		19.17		21.0	0.0	
15	PI/2 BPSK	72	0		19.19				
15	QPSK	1	1		19.27		21.0	0.0	
15	QPSK	1	40		19.12				
15	QPSK	1	77		19.12				
15	QPSK	36	0		19.10		21.0	0.0	
15	QPSK	36	22		19.20		21.0	0.0	
15	QPSK	36	43		19.17				
15	QPSK	72	0		19.22		21.0	0.0	
15	16QAM	1	1		19.17		21.0	0.0	
15	64QAM	1	1		19.16		21.0	0.0	
15	256QAM	1	1		19.26		20.0	1.0	
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	19.13	19.15	19.26	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	19.14	19.18	19.16	21.0	0.0	

PC2/3 n38 Modem B Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Middle Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519896			
Frequency (MHz)				2595.02	2595	2599.98			
40	P1/2 BPSK	1	1	19.16	19.19	19.25		21.0	0.0
40	P1/2 BPSK	1	53	19.12	19.25	19.12			
40	P1/2 BPSK	1	104	19.12	19.26	19.21			
40	P1/2 BPSK	50	0	19.07	19.29	19.07	21.0	0.0	
40	P1/2 BPSK	50	28	19.21	19.17	19.16	21.0	0.0	
40	P1/2 BPSK	50	56	19.16	19.30	19.22	21.0	0.0	
40	P1/2 BPSK	100	0	19.25	19.16	19.17	21.0	0.0	
40	QPSK	1	1	19.15	19.32	19.16			
40	QPSK	1	53	19.09	19.20	19.05	21.0	0.0	
40	QPSK	1	104	19.26	19.22	19.19			
40	QPSK	50	0	19.05	19.23	19.14	21.0	0.0	
40	QPSK	50	28	19.08	19.28	19.14	21.0	0.0	
40	QPSK	50	56	19.10	19.21	19.16	21.0	0.0	
40	QPSK	100	0	19.15	19.16	19.12	21.0	0.0	
40	16QAM	1	1	19.18	19.16	19.08	21.0	0.0	
40	64QAM	1	1	19.24	19.25	19.11	21.0	0.0	
40	256QAM	1	1	17.59	17.79	17.76	19.5	1.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.32	19.26	19.15	21.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.27	19.24	19.11	21.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.26	19.30	19.13	21.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.23	19.24	19.12	21.0	0.0	

PC2/3 n41 Modem B Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Middle Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518598	528000			
Frequency (MHz)				2544.01	2562.99	2540			
100	P1/2 BPSK	1	1	19.31	19.31	19.35		21.0	0.0
100	P1/2 BPSK	1	137	19.26	19.43	19.29			
100	P1/2 BPSK	1	271	19.23	19.44	19.33			
100	P1/2 BPSK	135	0	19.29	19.37	19.25	21.0	0.0	
100	P1/2 BPSK	135	69	19.35	19.32	19.27	21.0	0.0	
100	P1/2 BPSK	135	138	19.33	19.40	19.34	21.0	0.0	
100	P1/2 BPSK	270	0	19.34	19.34	19.29	21.0	0.0	
100	QPSK	1	1	19.29	19.46	19.34			
100	QPSK	1	137	19.30	19.39	19.26	21.0	0.0	
100	QPSK	1	271	19.38	19.33	19.37			
100	QPSK	135	0	19.23	19.34	19.30	21.0	0.0	
100	QPSK	135	69	19.25	19.39	19.26	21.0	0.0	
100	QPSK	135	138	19.32	19.32	19.28	21.0	0.0	
100	QPSK	270	0	19.30	19.33	19.26	21.0	0.0	
100	16QAM	1	1	19.39	19.32	19.24	21.0	0.0	
100	64QAM	1	1	19.38	19.45	19.27	21.0	0.0	
100	256QAM	1	1	17.78	17.96	17.93	19.5	1.5	
Channel				508000	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2644.98			
90	QPSK	1	1	19.18	19.24	19.18	21.0	0.0	
Channel				507004	518598	529996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.98			
80	QPSK	1	1	19.27	19.34	19.30	21.0	0.0	
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.34	19.39	19.37	21.0	0.0	
Channel				505000	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.25	19.36	19.25	21.0	0.0	
Channel				504000	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.34	19.47	19.32	21.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2514.01	2592.99	2670			
40	QPSK	1	1	19.33	19.35	19.24	21.0	0.0	
Channel				502000	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.35	19.36	19.36	21.0	0.0	
Channel				501004	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99			
20	QPSK	1	1	19.36	19.32	19.33	21.0	0.0	

n48_FCC Modem B Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Middle Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	P1/2 BPSK	1	1	15.44	15.59	15.37			
40	P1/2 BPSK	1	53	15.41	15.43	15.37	17.0	0.0	
40	P1/2 BPSK	1	104	15.37	15.50	15.39			
40	P1/2 BPSK	50	0	15.27	15.16	14.95	16.5	0.5	
40	P1/2 BPSK	50	28	15.48	15.60	15.42	17.0	0.0	
40	P1/2 BPSK	50	56	15.10	15.27	14.95	16.5	0.5	
40	P1/2 BPSK	100	0	15.17	15.33	14.99			
40	QPSK	1	1	15.62	15.63	15.41			
40	QPSK	1	53	15.50	15.55	15.40	17.0	0.0	
40	QPSK	1	104	15.52	15.56	15.36			
40	QPSK	50	0	14.62	14.71	14.60	16.0	1.0	
40	QPSK	50	28	15.56	15.58	15.46	17.0	0.0	
40	QPSK	50	56	14.68	14.54	14.46	16.0	1.0	
40	QPSK	100	0	14.77	14.76	14.61			
40	16QAM	1	1	14.61	14.72	14.64	16.0	1.0	
40	64QAM	1	1	13.17	13.14	12.95	14.5	2.5	
40	256QAM	1	1	11.07	11.14	11.09	12.5	4.5	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	15.58	15.58	15.31	17.0	0.0	
Channel				630000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	15.52	15.54	15.34	17.0	0.0	

PC3/PC2 Part27O n77 Modem B Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65600	66200			
Frequency (MHz)				3750	3840	3930			
100	PQ2 BPSK	1	1	22.34	22.31	22.30		24.0	0.0
100	PQ2 BPSK	1	137	22.11	22.17	22.24			
100	PQ2 BPSK	1	271	22.11	22.04	22.04			
100	PQ2 BPSK	135	0	22.45	22.45	22.36	24.0		
100	PQ2 BPSK	135	69	22.23	22.22	22.23	24.0	0.0	
100	PQ2 BPSK	135	138	22.43	22.39	22.36			
100	PQ2 BPSK	270	0	22.26	22.21	22.21	24.0	0.0	
100	QPSK	1	1	22.51	22.53	22.45			
100	QPSK	1	137	22.06	22.17	22.12	24.0	0.0	
100	QPSK	1	271	22.10	22.16	22.17			
100	QPSK	135	0	22.16	22.21	22.16	24.0	0.0	
100	QPSK	135	69	22.25	22.32	22.31	24.0	0.0	
100	QPSK	135	138	22.51	22.12	22.09			
100	QPSK	270	0	22.22	22.28	22.17	24.0	0.0	
100	16QAM	1	1	22.37	22.40	22.40	24.0	0.0	
100	64QAM	1	1	22.41	22.43	22.50	24.0	0.0	
100	256QAM	1	1	20.41	20.26	20.41	22.0	2.0	
Channel				64968	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.21	22.24	22.18	24.0	0.0	
Channel				64934	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.26	22.22	22.22	24.0	0.0	
Channel				64900	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.19	22.27	22.27	24.0	0.0	
Channel				64868	65000	65334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.24	22.21	22.20	24.0	0.0	
Channel				64834	65000	65260	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.24	22.27	22.19	24.0	0.0	
Channel				64800	65000	65400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.17	22.26	22.19	24.0	0.0	
Channel				64768	65000	65434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.17	22.22	22.27	24.0	0.0	
Channel				64734	65000	65460	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.16	22.24	22.21	24.0	0.0	
Channel				64700	65000	65490	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.24	22.14	22.20	24.0	0.0	
Channel				64700	65000	65500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.27	22.20	22.27	24.0	0.0	

PC3/PC2 Part27Q n77 Modem B Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					63334				
Frequency (MHz)					3500.01				
100	PQ2 BPSK	1	1		22.07			24.0	0.0
100	PQ2 BPSK	1	137		22.01				
100	PQ2 BPSK	1	271		22.07				
100	PQ2 BPSK	135	0		22.21		24.0		
100	PQ2 BPSK	135	69		22.11		24.0	0.0	
100	PQ2 BPSK	135	138		22.10				
100	PQ2 BPSK	270	0		22.09		24.0	0.0	
100	QPSK	1	1		22.46				
100	QPSK	1	137		22.15		24.0	0.0	
100	QPSK	1	271		22.17				
100	QPSK	135	0		22.01		24.0	0.0	
100	QPSK	135	69		22.31		24.0	0.0	
100	QPSK	135	138		22.08		24.0	0.0	
100	QPSK	270	0		22.07				
100	16QAM	1	1		22.18		24.0	0.0	
100	64QAM	1	1		22.17		24.0	0.0	
100	256QAM	1	1		20.19		22.0	2.0	
Channel				633000	63334	63368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.29	22.32	22.28	24.0	0.0	
Channel				63266	63334	63400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	22.35	22.40	22.33	24.0	0.0	
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.42	22.29	22.37	24.0	0.0	
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	22.33	22.29	22.36	24.0	0.0	
Channel				63166	63334	63500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	22.31	22.29	22.40	24.0	0.0	
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.34	22.34	22.35	24.0	0.0	
Channel				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.38	22.31	22.28	24.0	0.0	
Channel				63066	63334	63600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.32	22.27	22.40	24.0	0.0	
Channel				63030	63334	63636	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	22.35	22.35	22.40	24.0	0.0	
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	22.37	22.35	22.30	24.0	0.0	

PC3/PC2 Part27O n78 Modem B Ant2									
BW [MHz]	Modulation	Channel	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	PI2 BPSK	1	1		22.18			24.0	0.0
100	PI2 BPSK	1	137		22.14				
100	PI2 BPSK	1	271		22.18				
100	PI2 BPSK	135	0		22.12		24.0		
100	PI2 BPSK	135	69		22.02		24.0		
100	PI2 BPSK	135	138		22.13	138	24.0	0.0	
100	PI2 BPSK	270	0		22.17		24.0	0.0	
100	QPSK	1	1		22.30				
100	QPSK	1	137		22.26		24.0	0.0	
100	QPSK	1	271		22.08				
100	QPSK	135	0		22.08		24.0	0.0	
100	QPSK	135	69		22.12		24.0	0.0	
100	QPSK	135	138		22.11		24.0	0.0	
100	QPSK	270	0		22.27				
100	16QAM	1	1		22.24		24.0	0.0	
100	64QAM	1	1		22.06		24.0	0.0	
100	256QAM	1	1		20.28		22.0	2.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.11	22.14	22.15	24.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3748.01	3750	3760.02			
80	QPSK	1	1		22.14	22.15	22.10	24.0	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.11	22.11	22.06	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		22.20	22.10	22.07	24.0	0.0
Channel				631351	633000	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		22.15	22.25	22.08	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		22.11	22.11	22.07	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		22.13	22.24	22.18	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		22.16	22.22	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		22.12	22.18	22.07	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3760			
10	QPSK	1	1		22.15	22.23	22.16	24.0	0.0

PC3/PC2 Part27Q n78 Modem B Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633334		3460.01			
100	PI2 BPSK	1	1		22.17		24.0	0.0	
100	PI2 BPSK	1	137		22.09				
100	PI2 BPSK	1	271		22.13				
100	PI2 BPSK	135	0		22.06				
100	PI2 BPSK	135	69		22.04		24.0	0.0	
100	PI2 BPSK	135	138		22.14		24.0	0.0	
100	PI2 BPSK	270	0		22.14		24.0	0.0	
100	QPSK	1	1		22.28		24.0	0.0	
100	QPSK	1	137		22.16				
100	QPSK	1	271		22.17				
100	QPSK	135	0		22.21				
100	QPSK	135	69		22.22		24.0	0.0	
100	QPSK	135	138		22.01		24.0	0.0	
100	QPSK	270	0		22.02				
100	16QAM	1	1		22.18		24.0	0.0	
100	64QAM	1	1		22.18		24.0	0.0	
100	256QAM	1	1		20.17		22.0	2.0	
Channel									
Frequency (MHz)				633000		633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1		22.12	22.16	22.24	24.0	0.0
Channel									
Frequency (MHz)				632668		633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1		22.23	22.10	22.10	24.0	0.0
Channel									
Frequency (MHz)				632334		633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1		22.14	22.15	22.16	24.0	0.0
Channel									
Frequency (MHz)				632000		633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1		22.16	22.13	22.22	24.0	0.0
Channel									
Frequency (MHz)				631668		633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1		22.16	22.17	22.19	24.0	0.0
Channel									
Frequency (MHz)				631334		633334	636334	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1		22.20	22.15	22.09	24.0	0.0
Channel									
Frequency (MHz)				631000		633334	636668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1		22.20	22.11	22.15	24.0	0.0
Channel									
Frequency (MHz)				630668		633334	637000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1		22.21	22.16	22.21	24.0	0.0
Channel									
Frequency (MHz)				630334		633334	637334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1		22.13	22.21	22.16	24.0	0.0
Channel									
Frequency (MHz)				630000		633334	637668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1		22.21	22.21	22.22	24.0	0.0

n2 Modem C Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI2 BPSK	1	1	21.68	21.83	21.62	23.5
20	PI2 BPSK	1	53	21.63	21.78	21.64	23.5
20	PI2 BPSK	1	104	21.66	21.78	21.63	
20	PI2 BPSK	56	9	21.41	21.42	21.25	23.0
20	PI2 BPSK	50	28	21.70	21.81	21.67	23.5
20	PI2 BPSK	50	56	21.38	21.45	21.24	23.0
20	PI2 BPSK	100	0	21.39	21.52	21.25	
20	QPSK	1	1	21.85	21.90	21.87	23.5
20	QPSK	1	53	21.79	21.89	21.58	23.5
20	QPSK	1	104	21.63	21.82	21.59	
20	QPSK	50	0	20.86	20.92	20.77	22.5
20	QPSK	50	28	21.84	21.89	21.68	23.5
20	QPSK	50	56	20.91	20.78	20.77	22.5
20	QPSK	100	0	20.87	20.94	20.83	
20	16QAM	1	1	20.95	21.00	20.80	22.5
20	64QAM	1	1	19.29	19.38	19.20	21.0
20	256QAM	1	1	17.37	17.40	17.26	19.0
Channel				371500	376000	380500	
Frequency (MHz)				1867.5	1880	1902.5	
15	QPSK	1	1	21.71	21.74	21.76	23.5
Channel				371000	376000	381000	
Frequency (MHz)				1865	1880	1905	
10	QPSK	1	1	21.73	21.78	21.80	23.5
Channel				370500	376000	381500	
Frequency (MHz)				1862.5	1880	1907.5	
5	QPSK	1	1	21.73	21.76	21.76	23.5

n5 Modem C Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166000	167300	167600	
Frequency (MHz)				834	836.5	838	
20	PI2 BPSK	1	1	22.62	22.72	22.64	
20	PI2 BPSK	1	53	22.58	22.62	22.51	24.5
20	PI2 BPSK	1	104	22.62	22.62	22.56	
20	PI2 BPSK	50	0	22.38	22.38	22.29	24.0
20	PI2 BPSK	50	28	22.59	22.81	22.61	24.5
20	PI2 BPSK	50	56	22.33	22.27	22.14	24.0
20	PI2 BPSK	100	0	22.30	22.52	22.20	
20	QPSK	1	1	22.67	22.90	22.83	
20	QPSK	1	53	22.69	22.63	22.58	24.5
20	QPSK	1	104	22.69	22.69	22.70	
20	QPSK	50	0	21.83	21.87	21.77	23.5
20	QPSK	50	28	22.90	22.90	22.59	24.5
20	QPSK	50	56	21.75	21.77	21.61	23.5
20	QPSK	100	0	21.77	21.78	21.73	
20	16QAM	s	1	21.85	22.04	21.68	23.5
20	64QAM	1	1	20.26	20.30	20.12	22.0
20	256QAM	1	1	18.41	18.29	18.17	20.0
Channel				166300	167300	168300	
Frequency (MHz)				831.5	836.5	841.5	
15	QPSK	1	1	22.82	22.83	22.79	24.5
Channel				165800	167300	168800	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	1	22.81	22.85	22.83	24.5
Channel				165300	167300	169300	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	1	22.84	22.82	22.84	24.5

n7 Modem C Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2500	2535	2560	
40	PI2 BPSK	1	1	18.63	18.79	18.58	
40	PI2 BPSK	1	108	18.64	18.73	18.66	20.5
40	PI2 BPSK	1	214	18.66	18.76	18.70	
40	PI2 BPSK	108	0	18.66	18.74	18.64	20.5
40	PI2 BPSK	108	54	18.72	18.65	18.66	20.5
40	PI2 BPSK	108	108	18.75	18.64	18.60	20.5
40	PI2 BPSK	216	0	18.77	18.76	18.71	
40	QPSK	1	1	18.65	18.80	18.70	
40	QPSK	1	108	18.72	18.75	18.67	20.5
40	QPSK	1	214	18.75	18.73	18.57	
40	QPSK	108	0	18.76	18.71	18.69	20.5
40	QPSK	108	54	18.65	18.77	18.67	20.5
40	QPSK	108	108	18.75	18.66	18.59	20.5
40	QPSK	216	0	18.75	18.76	18.61	
40	16QAM	1	1	18.66	18.70	18.65	20.5
40	64QAM	1	1	18.76	18.66	18.72	20.5
40	256QAM	1	1	17.26	17.19	17.16	19.0
Channel				503000	507000	511000	
Frequency (MHz)				2515	2535	2555	
30	QPSK	1	1	18.74	18.67	18.63	20.5
Channel				502500	507000	511500	
Frequency (MHz)				2512.5	2535	2557.5	
25	QPSK	1	1	18.67	18.70	18.61	20.5
Channel				502000	507000	512000	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	1	18.75	18.65	18.72	20.5
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI2 BPSK	1	1	18.65	18.67	18.62	20.5
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	1	18.76	18.64	18.64	20.5
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	1	18.68	18.78	18.61	20.5

n12 Modem C Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI2 BPSK	1	1	22.72	22.76	22.76	
15	PI2 BPSK	1	40	22.68	22.74	22.82	24.5
15	PI2 BPSK	1	77	22.72	22.83	22.63	
15	PI2 BPSK	36	0	22.40	22.41	22.34	24.0
15	PI2 BPSK	36	22	22.73	22.87	22.68	24.5
15	PI2 BPSK	36	43	22.46	22.32	22.19	24.0
15	PI2 BPSK	75	0	22.37	22.54	22.32	
15	QPSK	1	1	22.87	22.93	22.81	
15	QPSK	1	40	22.80	22.77	22.68	24.5
15	QPSK	1	77	22.83	22.76	22.72	
15	QPSK	36	0	21.99	21.93	21.78	23.5
15	QPSK	36	22	22.96	22.96	22.73	24.5
15	QPSK	36	43	21.83	21.85	21.69	
15	QPSK	75	0	21.85	21.89	21.77	23.5
15	16QAM	1	1	21.85	22.11	21.78	23.5
15	64QAM	1	1	20.20	20.41	20.13	22.0
15	256QAM	1	1	18.44	18.37	18.37	20.0
Channel				140800	141500	142200	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	1	22.79	22.84	22.80	24.5
Channel				140300	141500	142700	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	1	22.70	22.91	22.84	24.5

n13 Modem C Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				156460			
Frequency (MHz)				740			
10	PI2 BPSK	1	1	22.66			
10	PI2 BPSK	1	26	22.38		24.0	0.0
10	PI2 BPSK	1	50	22.38			
10	PI2 BPSK	25	0	21.87		23.5	0.5
10	PI2 BPSK	25	14	22.42		24.0	0.0
10	PI2 BPSK	25	27	22.20		23.5	0.5
10	PI2 BPSK	50	0	22.09			
10	QPSK	1	1	22.67			
10	QPSK	1	26	22.55		24.0	0.0
10	QPSK	1	50	22.25			
10	QPSK	25	0	21.40		23.0	1.0
10	QPSK	25	14	22.35		24.0	0.0
10	QPSK	25	27	21.39		23.0	1.0
10	QPSK	50	0	21.54			
10	16QAM	1	1	21.50		23.0	1.0
10	64QAM	1	1	19.98		21.5	2.5
10	256QAM	1	1	18.22		19.5	4.5
Channel				155900	156400	156900	
Frequency (MHz)				739.5	742	744.5	
5	QPSK	1	1	22.60	22.66	22.59	24.0

n14 Modem C Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				156600			
Frequency (MHz)				743			
10	PI2 BPSK	1	1	22.92			
10	PI2 BPSK	1	26	22.72		24.5	0.0
10	PI2 BPSK	1	50	22.77			
10	PI2 BPSK	25	0	22.32		24.0	0.5
10	PI2 BPSK	25	14	22.74		24.5	0.0
10	PI2 BPSK	25	27	22.64		24.0	0.5
10	PI2 BPSK	50	0	22.40			
10	QPSK	1	1	23.06			
10	QPSK	1	26	22.96		24.5	0.0
10	QPSK	1	50	22.63			
10	QPSK	25	0	21.79		23.5	1.0
10	QPSK	25	14	22.59		24.5	0.0
10	QPSK	25	27	21.84		23.5	1.0
10	QPSK	50	0	21.91			
10	16QAM	1	1	21.79		23.5	1.0
10	64QAM	1	1	20.55		22.0	2.5
10	256QAM	1	1	18.49		20.0	4.5
Channel				156100	156600	156100	
Frequency (MHz)				740.5	743	746.5	
5	QPSK	1	1	22.90	22.96	22.89	24.5

n25 Modem C Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				374000	376000	376000	
Frequency (MHz)				1800	1862.5	1860	
40	PI2 BPSK	1	1	21.80	21.86	21.66	
40	PI2 BPSK	1	108	21.69	21.66	21.68	23.5
40	PI2 BPSK	1	214	21.66	21.66	21.67	
40	PI2 BPSK	108	0	21.46	21.49	21.27	23.0
40	PI2 BPSK	108	54	21.66	21.87	21.65	23.5
40	PI2 BPSK	108	108	21.29	21.43	21.28	23.0
40	PI2 BPSK	216	0	21.32	21.54	21.30	
40	QPSK	1	1	21.86	21.92	21.80	23.5
40	QPSK	1	108	21.72	21.80	21.66	23.5
40	QPSK	1	214	21.67	21.82	21.59	
40	QPSK	108	0	20.98	20.88	20.78	22.5
40	QPSK	108	54	21.87	21.68	21.68	23.5
40	QPSK	108	108	20.88	20.91	20.74	22.5
40	QPSK	216	0	20.93	20.94	20.82	
40	16QAM	1	1	20.91	20.98	20.80	22.5
40	64QAM	1	1	19.43	19.47	19.17	21.0
40	256QAM	1	1	17.39	17.47	17.29	19.0
Channel				373000	376000	380000	
Frequency (MHz)				1805	1862.5	1900	
30	QPSK	1	1	21.79	21.86	21.76	23.5
Channel				372500	376000	380500	
Frequency (MHz)				1802.5	1862.5	1902.5	
25	QPSK	1	1	21.77	21.79	21.73	23.5
Channel				372000	376000	381000	
Frequency (MHz)				1800	1862.5	1900	
20	QPSK	1	1	21.74	21.84	21.75	23.5
Channel				371500	376000	381500	
Frequency (MHz)				1807.5	1862.5	1907.5	
15	QPSK	1	1	21.75	21.86	21.75	23.5
Channel				371000	376000	382000	
Frequency (MHz)				1805	1862.5	1910	
10	QPSK	1	1	21.77	21.87	21.81	23.5
Channel				370500	376000	382500	
Frequency (MHz)				1802.5	1862.5	1912.5	
5	QPSK	1	1	21.74	21.85	21.75	23.5

n26 Modem C Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				164460	166000	167000	
Frequency (MHz)				824	831.5	838	
20	PI2 BPSK	1	1	22.66	22.60	22.66	
20	PI2 BPSK	1	53	22.66	22.63	22.65	24.5
20	PI2 BPSK	1	104	22.71	22.69	22.80	
20	PI2 BPSK	50	0	22.30	22.27	22.33	24.0
20	PI2 BPSK	50	26	22.60	22.60	22.75	24.5
20	PI2 BPSK	50	56	22.27	22.26	22.35	24.0
20	PI2 BPSK	100	0	22.22	22.15	22.52	
20	QPSK	1	1	22.73	22.96	22.92	
20	QPSK	1	53	22.74	22.52	22.75	24.5
20	QPSK	1	104	22.72	22.95	22.72	
20	QPSK	50	0	21.84	21.81	21.78	23.5
20	QPSK	50	26	22.60	22.64	22.66	24.5
20	QPSK	50	56	21.75	21.59	21.75	23.5
20	QPSK	100	0	21.78	21.77	21.84	
20	16QAM	1	1	21.79	21.76	22.01	23.5
20	64QAM	1	1	20.23	20.17	20.30	22.5
20	256QAM	1	1	18.37	18.31	18.32	20.0
Channel				164300	166300	168300	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	1	22.69	22.82	22.88	24.5
Channel				163800	166300	168800	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	1	22.68	22.91	22.87	24.5
Channel				163300	166300	169300	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	1	22.68	22.90	22.91	24.5

n30 Modem C Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI2 BPSK	1	1		12.92				
10	PI2 BPSK	1	26		12.78		14.5	0.0	
10	PI2 BPSK	1	50		12.58				
10	PI2 BPSK	25	0		12.70		14.5	0.0	
10	PI2 BPSK	25	14		12.90		14.5	0.0	
10	PI2 BPSK	25	27		12.69				
10	PI2 BPSK	50	0		12.71		14.5	0.0	
10	QPSK	1	1		13.14				
10	QPSK	1	26		12.85		14.5	0.0	
10	QPSK	1	50		12.92				
10	QPSK	25	0		13.08		14.5	0.0	
10	QPSK	25	14		12.93		14.5	0.0	
10	QPSK	25	27		12.94				
10	QPSK	50	0		12.86		14.5	0.0	
10	16QAM	1	1		12.94		14.5	0.0	
10	64QAM	1	1		12.96		14.5	0.0	
10	256QAM	1	1		12.79		14.5	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	13.03	13.09	12.89	14.5	0.0	

n66 Modem C Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000		349000	350000		
Frequency (MHz)				1920		1945	1960		
40	PI2 BPSK	1	1		19.12	19.23	19.20		
40	PI2 BPSK	1	108		19.21	19.22	19.14	21.0	
40	PI2 BPSK	1	214		19.19	19.30	19.27		
40	PI2 BPSK	108	0		19.14	19.23	19.16	21.0	
40	PI2 BPSK	108	54		19.20	19.21	19.21	21.0	
40	PI2 BPSK	108	108		19.14	19.20	19.11	21.0	
40	PI2 BPSK	216	0		19.22	19.30	19.36		
40	QPSK	1	1		19.39	19.42	19.41		
40	QPSK	1	108		19.18	19.17	19.12	21.0	
40	QPSK	1	214		19.15	19.22	19.22		
40	QPSK	108	0		19.13	19.16	19.13	21.0	
40	QPSK	108	54		19.26	19.30	19.12	21.0	
40	QPSK	108	108		19.17	19.18	19.20		
40	QPSK	216	0		19.24	19.36	19.34	21.0	
40	16QAM	1	1		19.16	19.18	19.16	21.0	
40	64QAM	1	1		19.17	19.22	19.21	21.0	
40	256QAM	1	1		19.30	19.36	19.19	20.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725		1745	1765		
30	QPSK	1	1		19.14	19.21	19.14	21.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720		1745	1770		
20	QPSK	1	1		19.20	19.20	19.13	21.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5		1745	1772.5		
15	QPSK	1	1		19.18	19.23	19.21	21.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715		1745	1775		
10	QPSK	1	1		19.12	19.17	19.16	21.0	
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	19.18	21.0	

n71 Modem C Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134000		136100	137600		
Frequency (MHz)				872		880.5	888		
20	PI2 BPSK	1	1		22.73	22.83	22.58		
20	PI2 BPSK	1	53		22.76	22.78	22.70	24.5	
20	PI2 BPSK	1	104		22.61	22.85	22.79		
20	PI2 BPSK	50	0		22.32	22.51	22.32	24.0	
20	PI2 BPSK	50	26		22.74	22.69	22.72	24.5	
20	PI2 BPSK	50	56		22.36	22.36	22.23	24.0	
20	PI2 BPSK	100	0		22.20	22.53	22.19		
20	QPSK	1	1		22.90	22.94	22.90		
20	QPSK	1	53		22.86	22.72	22.58	24.5	
20	QPSK	1	104		22.76	22.80	22.87		
20	QPSK	50	0		22.08	21.82	21.84	23.5	
20	QPSK	50	26		22.82	22.87	22.88	24.5	
20	QPSK	50	56		21.72	21.81	21.84	23.5	
20	QPSK	100	0		21.76	21.86	21.74		
20	16QAM	1	1		21.90	22.06	21.85	23.5	
20	64QAM	1	1		20.24	20.30	20.17	22.0	
20	256QAM	1	1		19.39	19.43	19.39	20.0	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				870.5		880.5	890.5		
15	QPSK	1	1		22.78	22.87	22.78	24.5	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				868		880.5	893		
10	QPSK	1	1		22.84	22.87	22.87	24.5	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				866.5		880.5	896.5		
5	QPSK	1	1		22.79	22.87	22.86	24.5	

PC2/3 n38 Modem C Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519004	519000	519996			
Frequency (MHz)				2580.10	2595	2599.98			
40	PI/2 BPSK	1	1	19.26	19.46	19.34			
40	PI/2 BPSK	1	53	19.37	19.49	19.33	21.0	0.0	
40	PI/2 BPSK	1	104	19.17	19.43	19.34			
40	PI/2 BPSK	50	0	19.30	19.45	19.20	21.0	0.0	
40	PI/2 BPSK	50	26	19.23	19.39	19.36	21.0	0.0	
40	PI/2 BPSK	50	56	19.16	19.47	19.21			
40	PI/2 BPSK	100	0	19.25	19.38	19.27	21.0	0.0	
40	QPSK	1	1	19.25	19.51	19.31			
40	QPSK	1	53	19.29	19.29	19.27	21.0	0.0	
40	QPSK	1	104	19.31	19.33	19.37			
40	QPSK	50	0	19.30	19.43	19.33	21.0	0.0	
40	QPSK	50	26	19.26	19.40	19.32	21.0	0.0	
40	QPSK	50	56	19.20	19.38	19.35			
40	QPSK	100	0	19.30	19.44	19.37	21.0	0.0	
40	16QAM	1	1	19.30	19.50	19.26	21.0	0.0	
40	64QAM	1	1	19.28	19.34	19.33	21.0	0.0	
40	256QAM	1	1	17.84	18.05	17.93	19.5	1.5	
Channel				517002	519000	520998			
Frequency (MHz)				2583.01	2595	2604.99			
30	QPSK	1	1	19.29	19.44	19.35	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.31	19.40	19.46	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.29	19.42	19.40	21.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.25	19.40	19.43	21.0	0.0	

PC2/3 n41 Modem C Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502002	518598	530500			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.27	19.36	19.27			
100	PI/2 BPSK	1	137	19.28	19.41	19.28	21.0	0.0	
100	PI/2 BPSK	1	271	19.19	19.38	19.26			
100	PI/2 BPSK	135	0	19.25	19.40	19.22	21.0	0.0	
100	PI/2 BPSK	135	69	19.17	19.30	19.32	21.0	0.0	
100	PI/2 BPSK	135	138	19.16	19.42	19.20			
100	PI/2 BPSK	270	0	19.17	19.32	19.25	21.0	0.0	
100	QPSK	1	1	19.17	19.43	19.30			
100	QPSK	1	137	19.31	19.29	19.21	21.0	0.0	
100	QPSK	1	271	19.31	19.32	19.33			
100	QPSK	135	0	19.26	19.35	19.25	21.0	0.0	
100	QPSK	135	69	19.20	19.36	19.27	21.0	0.0	
100	QPSK	135	138	19.18	19.31	19.32			
100	QPSK	270	0	19.21	19.35	19.31	21.0	0.0	
100	16QAM	1	1	19.25	19.39	19.25	21.0	0.0	
100	64QAM	1	1	19.17	19.30	19.31	21.0	0.0	
100	256QAM	1	1	17.83	17.96	17.83	19.5	1.5	
Channel				508200	518598	529598			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.16	19.35	19.30	21.0	0.0	
Channel				507204	518598	529598			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.24	19.39	19.19	21.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.24	19.31	19.23	21.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.21	19.41	19.21	21.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.21	19.31	19.19	21.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.22	19.33	19.21	21.0	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.28	19.36	19.19	21.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.17	19.28	19.29	21.0	0.0	

n2 Modem C Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)									
20	PI/2 BPSK	1	1	22.61	22.60	22.50			
20	PI/2 BPSK	1	53	22.49	22.56	22.25	23.5	0.0	
20	PI/2 BPSK	1	104	22.41	22.65	22.44			
20	PI/2 BPSK	50	0	22.05	21.95	22.10	23.0	0.5	
20	PI/2 BPSK	50	28	22.64	22.51	22.48	23.5	0.0	
20	PI/2 BPSK	50	56	22.30	22.47	22.01			
20	PI/2 BPSK	100	0	22.01	22.48	21.87	23.0	0.5	
20	QPSK	1	1	22.67	22.68	22.60			
20	QPSK	1	53	22.48	22.63	22.56	23.5	0.0	
20	QPSK	1	104	22.43	22.53	22.42			
20	QPSK	50	0	21.36	21.39	21.54	22.5	1.0	
20	QPSK	50	28	22.66	22.67	22.56	23.5	0.0	
20	QPSK	50	56	21.70	21.70	21.70			
20	QPSK	100	0	21.72	21.77	21.46	22.5	1.0	
20	16QAM	1	1	21.76	21.75	21.65	22.5	1.0	
20	64QAM	1	1	20.16	19.96	19.85	21.0	2.5	
20	256QAM	1	1	18.20	18.34	18.27	19.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	22.56	22.63	22.52	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	22.59	22.55	22.57	23.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.56	22.64	22.53	23.5	0.0	

n7 Modem C Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2620	2635	2650			
40	PI/2 BPSK	1	1	19.54	19.59	19.46			
40	PI/2 BPSK	1	108	19.48	19.48	19.44	20.5	0.0	
40	PI/2 BPSK	1	214	19.44	19.58	19.49			
40	PI/2 BPSK	108	0	19.49	19.48	19.44	20.5	0.0	
40	PI/2 BPSK	108	54	19.47	19.45	19.55	20.5	0.0	
40	PI/2 BPSK	108	108	19.49	19.50	19.57			
40	PI/2 BPSK	216	0	19.52	19.55	19.58	20.5	0.0	
40	QPSK	1	1	19.54	19.61	19.53			
40	QPSK	1	108	19.44	19.58	19.49	20.5	0.0	
40	QPSK	1	214	19.55	19.53	19.48			
40	QPSK	108	0	19.56	19.52	19.51	20.5	0.0	
40	QPSK	108	54	19.45	19.59	19.43	20.5	0.0	
40	QPSK	108	108	19.52	19.58	19.48			
40	QPSK	216	0	19.55	19.57	19.56	20.5	0.0	
40	16QAM	1	1	19.44	19.48	19.44	20.5	0.0	
40	64QAM	1	1	19.47	19.49	19.53	20.5	0.0	
40	256QAM	1	1	18.09	18.20	18.13	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2615	2635	2655			
30	QPSK	1	1	19.53	19.60	19.44	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2612.5	2635	2657.5			
25	QPSK	1	1	19.49	19.56	19.56	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2610	2635	2660			
20	QPSK	1	1	19.51	19.57	19.45	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2607.5	2635	2662.5			
15	PI/2 BPSK	1	1	19.47	19.56	19.56	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2605	2635	2665			
10	QPSK	1	1	19.50	19.52	19.54	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2602.5	2635	2667.5			
5	QPSK	1	1	19.43	19.50	19.48	20.5	0.0	

n25 Modem C Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI/2 BPSK	1	1	22.58	22.73	22.64			
40	PI/2 BPSK	1	108	22.60	22.65	22.33	23.5	0.0	
40	PI/2 BPSK	1	214	22.55	22.66	22.59			
40	PI/2 BPSK	108	0	22.20	22.12	22.23	23.0	0.5	
40	PI/2 BPSK	108	54	22.67	22.63	22.55	23.5	0.0	
40	PI/2 BPSK	108	108	22.34	22.53	22.17			
40	PI/2 BPSK	216	0	22.15	22.60	21.99	23.0	0.5	
40	QPSK	1	1	22.71	22.75	22.73			
40	QPSK	1	108	22.57	22.70	22.61	23.5	0.0	
40	QPSK	1	214	22.44	22.66	22.53			
40	QPSK	108	0	21.53	21.61	21.67	22.5	1.0	
40	QPSK	108	54	22.72	22.73	22.65	23.5	0.0	
40	QPSK	108	108	21.78	21.88	21.75			
40	QPSK	216	0	21.79	21.82	21.71	22.5	1.0	
40	16QAM	1	1	21.83	21.85	21.77	22.5	1.0	
40	64QAM	1	1	20.21	20.06	19.95	21.0	2.5	
40	256QAM	1	1	18.22	18.48	18.28	19.0	4.5	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.66	22.66	22.64	23.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	22.61	22.71	22.70	23.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.64	22.73	22.67	23.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.68	22.67	22.63	23.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	22.61	22.66	22.69	23.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.66	22.65	22.71	23.5	0.0	

n30 Modem C Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1	12.94			14.5	0.0	
10	PI/2 BPSK	1	26	12.80					
10	PI/2 BPSK	1	50	12.88					
10	PI/2 BPSK	25	0	12.85			14.5	0.0	
10	PI/2 BPSK	25	14	12.95			14.5	0.0	
10	PI/2 BPSK	25	27	12.86			14.5	0.0	
10	PI/2 BPSK	50	0	12.93					
10	QPSK	1	1	13.12			14.5	0.0	
10	QPSK	1	26	12.80					
10	QPSK	1	50	12.87					
10	QPSK	25	0	12.78			14.5	0.0	
10	QPSK	25	14	13.04			14.5	0.0	
10	QPSK	25	27	12.81			14.5	0.0	
10	QPSK	50	0	12.91					
10	16QAM	1	1	13.07			14.5	0.0	
10	64QAM	1	1	12.77			14.5	0.0	
10	256QAM	1	1	12.99			14.5	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	13.10	12.90	13.00	14.5	0.0	

n66 Modem C Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	19.23	19.29	19.25	21.0	0.0	
40	PI/2 BPSK	1	108	19.20	19.39	19.29			
40	PI/2 BPSK	1	214	19.26	19.40	19.29			
40	PI/2 BPSK	108	0	19.23	19.31	19.31	21.0	0.0	
40	PI/2 BPSK	108	54	19.31	19.27	19.26	21.0	0.0	
40	PI/2 BPSK	108	108	19.12	19.36	19.25	21.0	0.0	
40	PI/2 BPSK	216	0	19.24	19.41	19.26			
40	QPSK	1	1	19.42	19.55	19.50			
40	QPSK	1	108	19.27	19.27	19.30	21.0	0.0	
40	QPSK	1	214	19.29	19.27	19.27			
40	QPSK	108	0	19.28	19.25	19.28	21.0	0.0	
40	QPSK	108	54	19.38	19.42	19.19	21.0	0.0	
40	QPSK	108	108	19.31	19.25	19.29	21.0	0.0	
40	QPSK	216	0	19.33	19.41	19.38			
40	16QAM	1	1	19.32	19.27	19.23			
40	64QAM	1	1	19.22	19.23	19.27	21.0	0.0	
40	256QAM	1	1	18.39	18.47	18.36	20.0	1.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.22	19.38	19.29	21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.22	19.38	19.32	21.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.23	19.37	19.32	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.17	19.43	19.32	21.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.23	19.38	19.27	21.0	0.0	

n70 Modem C Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340500					
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1		19.41		21.0	0.0	
15	PI/2 BPSK	1	40		19.40				
15	PI/2 BPSK	1	77		19.44				
15	PI/2 BPSK	36	0		19.41		21.0	0.0	
15	PI/2 BPSK	36	22		19.41		21.0	0.0	
15	PI/2 BPSK	36	43		19.40		21.0	0.0	
15	PI/2 BPSK	75	0		19.44				
15	QPSK	1	1		19.54				
15	QPSK	1	40		19.41		21.0	0.0	
15	QPSK	1	77		19.40				
15	QPSK	36	0		19.41				
15	QPSK	36	22		19.44		21.0	0.0	
15	QPSK	36	43		19.40		21.0	0.0	
15	QPSK	75	0		19.47				
15	16QAM	1	1		19.40		21.0	0.0	
15	64QAM	1	1		19.40		21.0	0.0	
15	256QAM	1	1		18.54		20.0	1.0	
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	19.37	19.43	19.41	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	19.37	19.39	19.37	21.0	0.0	

PC2/3 n38 Modem C Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	19.41	19.51	19.37			
40	PI2 BPSK	1	53	19.39	19.54	19.27	21.0	0.0	
40	PI2 BPSK	1	104	19.39	19.50	19.42			
40	PI2 BPSK	50	0	19.38	19.64	19.33	21.0	0.0	
40	PI2 BPSK	50	28	19.37	19.61	19.28	21.0	0.0	
40	PI2 BPSK	50	56	19.30	19.57	19.37	21.0	0.0	
40	PI2 BPSK	100	0	19.33	19.63	19.33			
40	QPSK	1	1	19.49	19.70	19.27			
40	QPSK	1	53	19.43	19.65	19.31	21.0	0.0	
40	QPSK	1	104	19.33	19.47	19.34			
40	QPSK	50	0	19.42	19.58	19.38	21.0	0.0	
40	QPSK	50	28	19.38	19.66	19.25	21.0	0.0	
40	QPSK	50	56	19.51	19.65	19.45	21.0	0.0	
40	QPSK	100	0	19.45	19.67	19.29			
40	16QAM	1	1	19.30	19.58	19.41	21.0	0.0	
40	64QAM	1	1	19.47	19.60	19.38	21.0	0.0	
40	256QAM	1	1	18.01	18.15	18.17	19.5	1.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.95			
30	QPSK	1	1	19.44	19.50	19.30	21.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2585	2610			
20	QPSK	1	1	19.48	19.53	19.46	21.0	0.0	
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2585	2612.49			
15	QPSK	1	1	19.50	19.50	19.37	21.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2585	2614.98			
10	QPSK	1	1	19.53	19.57	19.44	21.0	0.0	

PC2/3 n41 Modem C Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2562.99	2560			
100	PI2 BPSK	1	1	19.61	19.71	19.55			
100	PI2 BPSK	1	137	19.52	19.73	19.44	21.0	0.0	
100	PI2 BPSK	1	271	19.56	19.72	19.53			
100	PI2 BPSK	135	0	19.49	19.76	19.44	21.0	0.0	
100	PI2 BPSK	135	69	19.57	19.75	19.47	21.0	0.0	
100	PI2 BPSK	135	138	19.64	19.71	19.55	21.0	0.0	
100	PI2 BPSK	270	0	19.54	19.73	19.44			
100	QPSK	1	1	19.60	19.65	19.44			
100	QPSK	1	137	19.63	19.62	19.46	21.0	0.0	
100	QPSK	1	271	19.54	19.69	19.52			
100	QPSK	135	0	19.58	19.69	19.53	21.0	0.0	
100	QPSK	135	69	19.60	19.61	19.44	21.0	0.0	
100	QPSK	135	138	19.63	19.75	19.58	21.0	0.0	
100	QPSK	270	0	19.62	19.66	19.44			
100	16QAM	1	5	19.49	19.68	19.55	21.0	0.0	
100	64QAM	1	1	19.58	19.78	19.47	21.0	0.0	
100	256QAM	1	1	18.18	18.34	18.31	19.5	1.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2544.98			
90	QPSK	1	1	19.63	19.67	19.58	21.0	0.0	
Channel				507204	518598	529996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2562.99	2549.98			
80	QPSK	1	1	19.51	19.71	19.47	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2562.99	2555			
70	QPSK	1	1	19.48	19.74	19.53	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2562.99	2559.98			
60	QPSK	1	1	19.64	19.80	19.57	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.02	2562.99	2544.99			
50	QPSK	1	1	19.49	19.67	19.45	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2570			
40	QPSK	1	1	19.53	19.80	19.44	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2574.98			
30	QPSK	1	1	19.59	19.80	19.53	21.0	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2579.99			
20	QPSK	1	1	19.62	19.72	19.44	21.0	0.0	

n48_FCC Modem C Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	15.63	15.73	15.55			
40	PI2 BPSK	1	53	15.56	15.56	15.55	17.0	0.0	
40	PI2 BPSK	1	104	15.53	15.67	15.51			
40	PI2 BPSK	50	0	15.44	15.36	15.12	16.5	0.5	
40	PI2 BPSK	50	28	15.62	15.70	15.54	17.0	0.0	
40	PI2 BPSK	50	56	15.23	15.44	15.08	16.5	0.5	
40	PI2 BPSK	100	0	15.37	15.46	15.12			
40	QPSK	1	1	15.74	15.76	15.75			
40	QPSK	1	53	15.67	15.67	15.57	17.0	0.0	
40	QPSK	1	104	15.63	15.71	15.55			
40	QPSK	50	0	14.73	14.84	14.76	16.0	1.0	
40	QPSK	50	28	15.66	15.69	15.65	17.0	0.0	
40	QPSK	50	56	14.87	14.65	14.67	16.0	1.0	
40	QPSK	100	0	14.93	14.56	14.81			
40	16QAM	1	1	14.73	14.82	14.81	16.0	1.0	
40	64QAM	1	1	13.32	13.28	13.14	14.5	2.5	
40	256QAM	1	1	11.27	11.27	11.25	12.5	4.5	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	15.71	15.71	15.71	17.0	0.0	
Channel				631000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552	3624.99	3684.98			
10	QPSK	1	1	15.68	15.68	15.68	17.0	0.0	

PC3/PC2 Part270 n77 Modem C Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65600	66200			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	22.26	22.20	22.15			
100	PI2 BPSK	1	137	22.22	22.15	22.24	24.0	0.0	
100	PI2 BPSK	1	271	22.20	22.09	22.18			
100	PI2 BPSK	135	0	22.35	22.42	22.32	24.0	0.0	
100	PI2 BPSK	135	69	22.30	22.24	22.21	24.0	0.0	
100	PI2 BPSK	135	135	22.07	22.08	22.01			
100	PI2 BPSK	270	0	22.24	22.23	22.17	24.0	0.0	
100	QPSK	1	1	22.33	22.46	22.34			
100	QPSK	1	137	22.25	22.21	22.09	24.0	0.0	
100	QPSK	1	271	22.15	22.16	22.09			
100	QPSK	135	0	22.22	22.24	22.32	24.0	0.0	
100	QPSK	135	69	22.20	22.25	22.20	24.0	0.0	
100	QPSK	135	135	22.02	22.12	22.07			
100	QPSK	270	0	22.16	22.17	22.10			
100	16QAM	1	1	21.61	21.56	21.50	23.0	1.0	
100	64QAM	1	1	21.52	21.48	21.49	23.0	1.0	
100	256QAM	1	1	19.68	19.71	19.63	21.5	2.5	
Channel				64968	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.21	22.12	22.09	24.0	0.0	
Channel				64834	65000	65066	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.11	22.13	22.16	24.0	0.0	
Channel				64800	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.12	22.21	22.08	24.0	0.0	
Channel				64868	65000	66334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3960.01			
60	QPSK	1	1	22.08	22.15	22.20	24.0	0.0	
Channel				64834	65000	65368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3722.01	3840	3950.02			
50	QPSK	1	1	22.07	22.22	22.17	24.0	0.0	
Channel				64800	65000	65400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.09	22.12	22.19	24.0	0.0	
Channel				64768	65000	65434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.09	22.09	22.10	24.0	0.0	
Channel				64734	65000	65468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.18	22.14	22.20	24.0	0.0	
Channel				647168	65000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3840	3972.51			
15	QPSK	1	1	22.10	22.08	22.14	24.0	0.0	
Channel				647000	65000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.22	22.09	22.11	24.0	0.0	

PC3/PC2 Part27Q n77 Modem C Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				63334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	22.42					
100	PI2 BPSK	1	137	22.10			24.0		0.0
100	PI2 BPSK	1	271	22.26					
100	PI2 BPSK	135	0	22.23			24.0		0.0
100	PI2 BPSK	135	69	22.26			24.0		0.0
100	PI2 BPSK	135	135	22.31					
100	PI2 BPSK	270	0	22.32			24.0		0.0
100	QPSK	1	1	22.36					
100	QPSK	1	137	22.23			24.0		0.0
100	QPSK	1	271	22.36					
100	QPSK	135	0	22.32			24.0		0.0
100	QPSK	135	69	22.51			24.0		0.0
100	QPSK	135	135	22.45			24.0		0.0
100	QPSK	270	0	22.32					
100	16QAM	1	1	22.56			23.0		1.0
100	64QAM	1	1	22.08			23.0		1.0
100	256QAM	1	1	20.42			21.5		2.5
Channel				633000	63334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.41	22.42	22.44	24.0		0.0
Channel				632668	63334	634000			
Frequency (MHz)				3490.62	3500.01	3510			
80	QPSK	1	1	22.44	22.43	22.40	24.0		0.0
Channel				632334	63334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.47	22.43	22.50	24.0		0.0
Channel				632000	63334	634668			
Frequency (MHz)				3480	3500.01	3505.02			
60	QPSK	1	1	22.39	22.48	22.40	24.0		0.0
Channel				631668	63334	635000			
Frequency (MHz)				3476.02	3500.01	3505			
50	QPSK	1	1	22.51	22.45	22.39	24.0		0.0
Channel				631334	63334	635334			
Frequency (MHz)				3470.01	3500.01	3508.01			
40	QPSK	1	1	22.47	22.54	22.42	24.0		0.0
Channel				631000	63334	635668			
Frequency (MHz)				3465	3500.01	3505.02			
30	QPSK	1	1	22.42	22.44	22.42	24.0		0.0
Channel				630668	63334	636000			
Frequency (MHz)				3460.62	3500.01	3505			
20	QPSK	1	1	22.53	22.51	22.51	24.0		0.0
Channel				630300	63334	636168			
Frequency (MHz)				3457.5	3500.01	3503.52			
15	QPSK	1	1	22.44	22.40	22.42	24.0		0.0
Channel				630334	63334	636334			
Frequency (MHz)				3455.01	3500.01	3503.01			
10	QPSK	1	1	22.48	22.46	22.40	24.0		0.0

PC3/PC2 Part270 n78 Modem C Ant2									
BW (MHz)	Modulation	RB Size	RG 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		22.10		24.0	0.0	
100	PI2 BPSK	1	137		22.02				
100	PI2 BPSK	1	271		22.30				
100	PI2 BPSK	135	0		22.04		24.0	0.0	
100	PI2 BPSK	135	69		22.06		24.0	0.0	
100	PI2 BPSK	135	138		22.24		24.0	0.0	
100	PI2 BPSK	270	0		22.19				
100	QPSK	1	1		22.50				
100	QPSK	1	137		22.12		24.0	0.0	
100	QPSK	1	271		22.30				
100	QPSK	135	0		22.23		24.0	0.0	
100	QPSK	135	69		22.48		24.0	0.0	
100	QPSK	135	138		22.36		24.0	0.0	
100	QPSK	270	0		22.19				
100	16QAM	1	1		22.16		23.0	1.0	
100	64QAM	1	1		22.35		23.0	1.0	
100	256QAM	1	1		20.20		21.5	2.5	
Channel				649968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.39	22.35	22.43	24.0	0.0
Channel				649934	650000	650066	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3750	3760.99			
80	QPSK	1	1		22.33	22.42	22.29	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.33	22.36	22.40	24.0	0.0
Channel				648968	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3750.02	3750	3770.01			
60	QPSK	1	1		22.34	22.43	22.35	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3723.01	3750	3775.02			
50	QPSK	1	1		22.29	22.30	22.30	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		22.39	22.42	22.39	24.0	0.0
Channel				647968	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		22.34	22.45	22.32	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3718.01	3750	3780.02			
20	QPSK	1	1		22.42	22.33	22.27	24.0	0.0
Channel				647168	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.62	3750	3782.51			
15	QPSK	1	1		22.34	22.41	22.35	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.41	22.41	22.34	24.0	0.0

PC3/PC2 Part27Q n78 Modem C Ant2									
BW (MHz)	Modulation	RB Size	RG 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		22.31		24.0	0.0	
100	PI2 BPSK	1	137		22.04				
100	PI2 BPSK	1	271		22.25				
100	PI2 BPSK	135	0		22.27		24.0	0.0	
100	PI2 BPSK	135	69		22.41		24.0	0.0	
100	PI2 BPSK	135	138		22.30		24.0	0.0	
100	PI2 BPSK	270	0		22.27				
100	QPSK	1	1		22.46				
100	QPSK	1	137		22.30		24.0	0.0	
100	QPSK	1	271		22.27				
100	QPSK	135	0		22.38		24.0	0.0	
100	QPSK	135	69		22.47		24.0	0.0	
100	QPSK	135	138		22.46		24.0	0.0	
100	QPSK	270	0		22.29				
100	16QAM	1	1		22.48		23.0	1.0	
100	64QAM	1	1		22.29		23.0	1.0	
100	256QAM	1	1		20.32		21.5	2.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		22.44	22.42	22.38	24.0	0.0
Channel				633068	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3500.01	3501			
80	QPSK	1	1		22.44	22.33	22.44	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		22.36	22.36	22.30	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		22.35	22.30	22.39	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3479.02	3500.01	3525			
50	QPSK	1	1		22.44	22.30	22.44	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		22.44	22.31	22.44	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		22.35	22.37	22.30	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3459.02	3500.01	3540			
20	QPSK	1	1		22.34	22.41	22.41	24.0	0.0
Channel				630000	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.50			
15	QPSK	1	1		22.42	22.31	22.33	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		22.40	22.42	22.30	24.0	0.0

n2 Modem D Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37000	37600	38000			
Frequency (MHz)				1860	1860	1860			
20	PI2 BPSK	1	1	21.59	21.74	21.68	23.5	0.0	
20	PI2 BPSK	1	53	21.52	21.68	21.60	23.5	0.0	
20	PI2 BPSK	1	104	21.58	21.71	21.55			
20	PI2 BPSK	50	9	21.28	21.30	21.18	23.0	0.5	
20	PI2 BPSK	50	28	21.62	21.71	21.59	23.5	0.0	
20	PI2 BPSK	50	56	21.28	21.29	21.11	23.0	0.5	
20	PI2 BPSK	100	0	21.32	21.37	21.16			
20	QPSK	1	1	21.52	21.76	21.60			
20	QPSK	1	53	21.65	21.53	21.51	23.5	0.0	
20	QPSK	1	104	21.55	21.75	21.61			
20	QPSK	50	0	20.75	20.80	20.71	22.5	1.0	
20	QPSK	50	28	21.68	21.71	21.68	23.5	0.0	
20	QPSK	50	56	20.83	20.82	20.81	22.5	1.0	
20	QPSK	100	0	20.77	20.88	20.73			
20	16QAM	1	1	20.88	20.89	20.71	22.5	1.0	
20	64QAM	1	1	19.23	19.25	19.06	21.0	2.5	
20	256QAM	1	1	17.31	17.52	17.14	19.0	4.5	
Channel				37150	37600	38000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1860	1862.5			
15	QPSK	1	1	21.58	21.66	21.52	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1860	1865			
10	QPSK	1	1	21.58	21.65	21.59	23.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1860	1867.5			
5	QPSK	1	1	21.57	21.69	21.60	23.5	0.0	

n5 Modem D Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				16600	167300	167800			
Frequency (MHz)				835	836.5	838			
20	PI2 BPSK	1	1	22.51	22.60	22.59			
20	PI2 BPSK	1	53	22.53	22.58	22.57	24.5	0.0	
20	PI2 BPSK	1	104	22.52	22.60	22.59			
20	PI2 BPSK	50	0	22.22	22.22	22.17	24.0	0.5	
20	PI2 BPSK	50	28	22.54	22.58	22.51	24.5	0.0	
20	PI2 BPSK	50	56	22.13	22.13	22.17	24.0	0.5	
20	PI2 BPSK	100	0	22.14	22.37	22.05			
20	QPSK	1	1	22.73	22.76	22.75			
20	QPSK	1	53	22.55	22.53	22.58	24.5	0.0	
20	QPSK	1	104	22.59	22.95	22.62			
20	QPSK	50	0	21.64	21.74	21.59	23.5	1.0	
20	QPSK	50	28	22.60	22.74	22.54	24.5	0.0	
20	QPSK	50	56	21.68	21.59	21.52	23.5	1.0	
20	QPSK	100	0	21.55	21.65	21.58			
20	16QAM	1	1	21.67	21.87	21.56	23.5	1.0	
20	64QAM	1	1	20.07	20.16	20.02	22.0	2.5	
20	256QAM	1	1	18.29	18.15	18.05	20.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.63	22.72	22.70	0.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.65	22.71	22.72	24.5	0.0	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				828.5	836.5	848.5			
5	QPSK	1	1	22.69	22.69	22.67	24.5	0.0	

n7 Modem D Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2620	2635	2660			
40	PI2 BPSK	1	1	18.58	18.58	18.58			
40	PI2 BPSK	1	108	18.60	18.69	18.51	20.5	0.0	
40	PI2 BPSK	1	214	18.67	18.68	18.54			
40	PI2 BPSK	108	0	18.62	18.68	18.52	20.5	0.0	
40	PI2 BPSK	108	54	18.62	18.68	18.52	20.5	0.0	
40	PI2 BPSK	108	108	18.64	18.65	18.56	20.5	0.0	
40	PI2 BPSK	216	0	18.57	18.58	18.52			
40	QPSK	1	1	18.60	18.72	18.51			
40	QPSK	1	108	18.61	18.60	18.56	20.5	0.0	
40	QPSK	1	214	18.55	18.59	18.55			
40	QPSK	108	0	18.58	18.68	18.54	20.5	0.0	
40	QPSK	108	54	18.57	18.69	18.55	20.5	0.0	
40	QPSK	108	108	18.66	18.62	18.57			
40	QPSK	216	0	18.60	18.68	18.57	20.5	0.0	
40	16QAM	1	1	18.66	18.69	18.57	20.5	0.0	
40	64QAM	1	1	18.55	18.55	18.61	20.5	0.0	
40	256QAM	1	1	17.18	17.15	17.10	19.0	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2615	2635	2665			
30	QPSK	1	1	18.60	18.65	18.54	20.5	0.0	
Channel				502500	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2612.5	2635	2657.5			
25	QPSK	1	1	18.54	18.66	18.62	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2610	2635	2660			
20	QPSK	1	1	18.54	18.70	18.63	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2607.5	2635	2662.5			
15	PI2 BPSK	1	1	18.62	18.55	18.58	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2605	2635	2665			
10	QPSK	1	1	18.55	18.65	18.62	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2602.5	2635	2667.5			
5	QPSK	1	1	18.53	18.66	18.56	20.5	0.0	

n12 Modem D Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				704.5	707.5	708.5			
15	PI2 BPSK	1	1	22.74	22.80	22.76			
15	PI2 BPSK	1	40	22.72	22.71	22.78	24.5	0.0	
15	PI2 BPSK	1	77	22.75	22.86	22.61			
15	PI2 BPSK	36	0	22.36	22.43	22.32	24.0	0.5	
15	PI2 BPSK	36	22	22.76	22.90	22.63	24.5	0.0	
15	PI2 BPSK	36	43	22.45	22.29	22.17	24.0	0.5	
15	PI2 BPSK	75	0	22.39	22.57	22.36			
15	QPSK	1	1	22.91	22.98	22.93			
15	QPSK	1	40	22.79	22.79	22.82	24.5	0.0	
15	QPSK	1	77	22.80	22.78	22.71			
15	QPSK	36	0	21.97	21.94	21.75	23.5	1.0	
15	QPSK	36	22	22.92	22.93	22.76	24.5	0.0	
15	QPSK	36	43	21.87	21.84	21.67	23.5	1.0	
15	QPSK	75	0	21.85	21.91	21.81			
15	16QAM	1	1	21.87	22.12	21.74	23.5	1.0	
15	64QAM	1	1	20.27	20.48	20.15	22.0	2.5	
15	256QAM	1	1	18.43	18.41	18.35	20.0	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
15	QPSK	1	1	22.98	22.92	22.92	24.5	0.0	
Channel				142000	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.82	22.93	22.75	24.5	0.0	

n13 Modem D Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				156400					
Frequency (MHz)				162					
10	PI2 BPSK	1	1		22.58			24.0	0.0
10	PI2 BPSK	1	26		22.34				
10	PI2 BPSK	1	50		22.34				
10	PI2 BPSK	25	0		21.91			23.5	0.5
10	PI2 BPSK	25	14		22.39			24.0	0.0
10	PI2 BPSK	25	27		22.17			23.5	0.5
10	PI2 BPSK	50	0		22.08				
10	QPSK	1	1		22.59			24.0	0.0
10	QPSK	1	26		22.59				
10	QPSK	1	50		22.21				
10	QPSK	25	0		21.41			23.0	1.0
10	QPSK	25	14		22.54			24.0	0.0
10	QPSK	25	27		21.41			23.0	1.0
10	QPSK	50	0		21.52				
10	16QAM	1	1		21.50			23.0	1.0
10	64QAM	1	1		20.02			21.0	2.5
10	256QAM	1	1		18.18			19.0	4.5
Channel				155900		156400	155900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5		792	784.5		
5	QPSK	1	1		22.61	22.65	22.63	24.0	0.0

n14 Modem D Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				158650					
Frequency (MHz)				793					
10	PI2 BPSK	1	1		22.77			24.5	0.0
10	PI2 BPSK	1	26		22.55				
10	PI2 BPSK	1	50		22.56				
10	PI2 BPSK	25	0		22.18			24.0	0.5
10	PI2 BPSK	25	14		22.51			24.5	0.0
10	PI2 BPSK	25	27		22.43			24.0	0.5
10	PI2 BPSK	50	0		22.20				
10	QPSK	1	1		22.81			24.5	0.0
10	QPSK	1	26		22.77				
10	QPSK	1	50		22.54				
10	QPSK	25	0		21.58			23.5	1.0
10	QPSK	25	14		22.66			24.5	0.0
10	QPSK	25	27		21.58			23.5	1.0
10	QPSK	50	0		21.69				
10	16QAM	1	1		21.58			23.5	1.0
10	64QAM	1	1		20.15			22.0	2.5
10	256QAM	1	1		18.25			20.0	4.5
Channel				158100		158650	158100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5		793	786.5		
5	QPSK	1	1		22.74	22.79	22.70	24.5	0.0

n25 Modem D Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000		376500	374000		
Frequency (MHz)				1870		1882.5	1866		
40	PI2 BPSK	1	1		22.07	22.18	21.96	23.5	0.0
40	PI2 BPSK	1	106		22.06	21.96	22.01		
40	PI2 BPSK	1	214		21.89	22.18	22.03		
40	PI2 BPSK	106	0		21.82	21.72	21.64	23.0	0.5
40	PI2 BPSK	106	54		21.90	22.12	21.94	23.5	0.0
40	PI2 BPSK	106	106		21.60	21.71	21.55	23.0	0.5
40	PI2 BPSK	216	0		21.65	21.86	21.63		
40	QPSK	1	1		22.24	22.27	22.23	23.5	0.0
40	QPSK	1	106		21.95	22.14	22.00		
40	QPSK	1	214		21.90	22.18	21.92		
40	QPSK	106	0		21.34	21.16	21.08	22.5	1.0
40	QPSK	106	54		22.24	22.25	21.92	23.5	0.0
40	QPSK	106	106		21.24	21.15	20.98	22.5	1.0
40	QPSK	216	0		21.20	21.23	21.09		
40	16QAM	1	1		21.23	21.24	21.14	22.5	1.0
40	64QAM	1	1		19.77	19.79	19.52	21.0	2.5
40	256QAM	1	1		17.73	17.80	17.62	19.0	4.5
Channel				373000		376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865		1882.5	1900		
30	QPSK	1	1		22.18	22.18	22.18	23.5	0.0
Channel				372500		376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5		1882.5	1862.5		
25	QPSK	1	1		22.19	22.24	22.20	23.5	0.0
Channel				372000		376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860		1882.5	1905		
20	QPSK	1	1		22.19	22.22	22.20	23.5	0.0
Channel				371500		376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5		1882.5	1907.5		
15	QPSK	1	1		22.19	22.21	22.15	23.5	0.0
Channel				371000		376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855		1882.5	1910		
10	QPSK	1	1		22.18	22.21	22.16	23.5	0.0
Channel				370500		376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5		1882.5	1912.5		
5	QPSK	1	1		22.19	22.18	22.15	23.5	0.0

n26 Modem D Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800		166300	164800		
Frequency (MHz)				824		831.5	838		
20	PI2 BPSK	1	1		22.62	22.63	22.64	24.5	0.0
20	PI2 BPSK	1	53		22.63	22.59	22.64		
20	PI2 BPSK	1	104		22.67	22.59	22.78		
20	PI2 BPSK	50	0		22.29	22.23	22.31	24.0	0.5
20	PI2 BPSK	50	26		22.64	22.61	22.75	24.5	0.0
20	PI2 BPSK	50	56		22.24	22.24	22.29	24.0	0.5
20	PI2 BPSK	100	0		22.19	22.17	22.54		
20	QPSK	1	1		22.81	22.78	22.99	24.5	0.0
20	QPSK	1	53		22.70	22.55	22.74		
20	QPSK	1	104		22.74	22.97	22.70		
20	QPSK	50	0		21.81	21.85	21.75	23.5	1.0
20	QPSK	50	26		22.79	22.66	22.98	24.5	0.0
20	QPSK	50	56		21.79	21.61	21.71	23.5	1.0
20	QPSK	100	0		21.78	21.82	21.83		
20	16QAM	1	1		21.83	21.79	22.00	23.5	1.0
20	64QAM	1	1		20.20	20.21	20.28	22.0	2.5
20	256QAM	1	1		18.41	18.38	18.32	20.0	4.5
Channel				164300		166300	165300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5		831.5	841.5		
15	QPSK	1	1		22.79	22.88	22.81	24.5	0.0
Channel				163800		166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819		831.5	844		
10	QPSK	1	1		22.80	22.80	22.73	24.5	0.0
Channel				163300		166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5		831.5	846.5		
5	QPSK	1	1		22.71	22.78	22.72	24.5	0.0

n30 Modem D Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI2 BPSK	1	1		13.12				
10	PI2 BPSK	1	26		13.04		14.5	0.0	
10	PI2 BPSK	1	50		13.00				
10	PI2 BPSK	25	0		12.83		14.5	0.0	
10	PI2 BPSK	25	14		12.68		14.5	0.0	
10	PI2 BPSK	25	27		12.78				
10	PI2 BPSK	50	0		12.72		14.5	0.0	
10	QPSK	1	1		13.17				
10	QPSK	1	26		12.92		14.5	0.0	
10	QPSK	1	50		13.05				
10	QPSK	25	0		13.11		14.5	0.0	
10	QPSK	25	14		13.14		14.5	0.0	
10	QPSK	25	27		12.72				
10	QPSK	50	0		12.93		14.5	0.0	
10	16QAM	1	1		13.08		14.5	0.0	
10	64QAM	1	1		12.89		14.5	0.0	
10	256QAM	1	1		13.09		14.5	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1		13.04	13.16	13.07	14.5	0.0

n66 Modem D Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				344000	345000	350000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1		19.03	19.01	19.05		
40	PI2 BPSK	1	108		19.05	19.08	19.09	21.0	0.0
40	PI2 BPSK	1	214		19.06	19.16	19.03		
40	PI2 BPSK	108	0		19.05	19.05	19.08	21.0	0.0
40	PI2 BPSK	108	54		19.09	19.03	19.04	21.0	0.0
40	PI2 BPSK	108	106		19.05	19.04	19.07		
40	PI2 BPSK	216	0		19.09	19.16	19.08	21.0	0.0
40	QPSK	1	1		19.20	19.22	19.15		
40	QPSK	1	108		19.08	19.08	19.05	21.0	0.0
40	QPSK	1	214		19.10	19.07	19.08		
40	QPSK	108	0		19.03	19.04	19.05	21.0	0.0
40	QPSK	108	54		19.07	19.08	19.03	21.0	0.0
40	QPSK	108	108		19.05	19.04	19.02		
40	QPSK	216	0		19.08	19.19	19.14	21.0	0.0
40	16QAM	1	1		19.06	19.01	19.02	21.0	0.0
40	64QAM	1	1		19.01	18.99	19.01	21.0	0.0
40	256QAM	1	1		18.13	18.19	18.12	20.0	1.0
Channel				345000	345000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1		19.04	19.14	19.09	21.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1		19.08	19.18	19.04	21.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1		19.09	19.14	19.03	21.0	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1		19.04	19.15	19.04	21.0	0.0
Channel				342500	349000	350500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1		19.06	19.15	19.05	21.0	0.0

n71 Modem D Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI2 BPSK	1	1		22.62	22.69	22.64		
20	PI2 BPSK	1	53		22.69	22.71	22.57	24.5	0.0
20	PI2 BPSK	1	104		22.55	22.74	22.72		
20	PI2 BPSK	50	0		22.22	22.45	22.21	24.0	0.5
20	PI2 BPSK	50	28		22.68	22.59	22.62	24.5	0.0
20	PI2 BPSK	50	56		22.25	22.23	22.09	24.0	0.5
20	PI2 BPSK	100	0		22.07	22.42	22.06		
20	QPSK	1	1		22.73	22.83	22.87		
20	QPSK	1	53		22.71	22.64	22.83	24.5	0.0
20	QPSK	1	104		22.70	22.73	22.80		
20	QPSK	50	0		21.93	21.69	21.78	23.5	1.0
20	QPSK	50	28		22.77	22.78	22.94	24.5	0.0
20	QPSK	50	56		21.59	21.68	21.54	23.5	1.0
20	QPSK	100	0		21.68	21.75	21.81		
20	16QAM	1	1		21.78	21.93	21.72	23.5	1.0
20	64QAM	1	1		20.13	20.16	20.06	22.0	2.5
20	256QAM	1	1		19.29	19.35	19.33	20.0	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1		22.64	22.79	22.66	24.5	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1		22.65	22.78	22.56	24.5	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1		22.63	22.77	22.63	24.5	0.0

PC2/3 n38 Modem D Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.15	19.19	19.17	21.0	0.0	
40	PI/2 BPSK	1	53	19.15	19.24	19.20			
40	PI/2 BPSK	1	104	19.19	19.25	19.19	21.0	0.0	
40	PI/2 BPSK	50	0	19.14	19.24	19.11			
40	PI/2 BPSK	50	26	19.19	19.27	19.21	21.0	0.0	
40	PI/2 BPSK	50	56	19.11	19.35	19.20			
40	PI/2 BPSK	100	0	19.29	19.27	19.30	21.0	0.0	
40	QPSK	1	1	19.11	19.41	19.27			
40	QPSK	1	53	19.26	19.35	19.24	21.0	0.0	
40	QPSK	1	104	19.27	19.24	19.28			
40	QPSK	50	0	19.23	19.32	19.33	21.0	0.0	
40	QPSK	50	26	19.22	19.35	19.22			
40	QPSK	50	56	19.28	19.28	19.29	21.0	0.0	
40	QPSK	100	0	19.29	19.30	19.17			
40	16QAM	1	1	19.26	19.24	19.26	21.0	0.0	
40	64QAM	1	1	19.36	19.29	19.13			
40	256QAM	1	1	17.70	17.82	17.80	19.5	1.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.37	19.35	19.37	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.29	19.37	19.29	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.35	19.39	19.38	21.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.36	19.38	19.29	21.0	0.0	
Channel									

PC2/3 n41 Modem D Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528200			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.21	19.30	19.27	21.0	0.0	
100	PI/2 BPSK	1	137	19.21	19.32	19.22			
100	PI/2 BPSK	1	271	19.24	19.31	19.24	21.0	0.0	
100	PI/2 BPSK	135	0	19.26	19.34	19.21			
100	PI/2 BPSK	135	69	19.28	19.39	19.24	21.0	0.0	
100	PI/2 BPSK	135	138	19.21	19.40	19.24			
100	PI/2 BPSK	270	0	19.28	19.30	19.30	21.0	0.0	
100	QPSK	1	1	19.22	19.45	19.31			
100	QPSK	1	137	19.29	19.43	19.24	21.0	0.0	
100	QPSK	1	271	19.36	19.30	19.30			
100	QPSK	135	0	19.34	19.35	19.32	21.0	0.0	
100	QPSK	135	69	19.29	19.36	19.28			
100	QPSK	135	138	19.27	19.32	19.30	21.0	0.0	
100	QPSK	270	0	19.29	19.32	19.25			
100	16QAM	1	1	19.31	19.32	19.27	21.0	0.0	
100	64QAM	1	1	19.36	19.40	19.20			
100	256QAM	1	1	17.76	17.92	17.85	19.5	1.5	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.25	19.29	19.22	21.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.30	19.38	19.32	21.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.28	19.34	19.25	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	19.37	19.40	19.26	21.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.23	19.37	19.33	21.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.30	19.35	19.29	21.0	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.33	19.44	19.21	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	19.36	19.34	19.26	21.0	0.0	
Channel									

n2 Modem D Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	22.42	22.42	22.35		24.0	0.0
20	PI/2 BPSK	1	53	22.37	22.41	22.08			
20	PI/2 BPSK	1	104	22.27	22.48	22.31		23.5	0.5
20	PI/2 BPSK	50	0	21.85	21.84	21.94			
20	PI/2 BPSK	50	28	22.44	22.36	22.31		24.0	0.0
20	PI/2 BPSK	50	56	22.11	22.28	21.90		23.5	0.5
20	PI/2 BPSK	100	0	21.89	22.37	21.74			
20	QPSK	1	1	22.47	22.50	22.48		24.0	0.0
20	QPSK	1	53	22.36	22.47	22.41			
20	QPSK	1	104	22.24	22.34	22.23		23.0	1.0
20	QPSK	50	0	21.18	21.26	21.36			
20	QPSK	50	28	22.48	22.49	22.41		24.0	0.0
20	QPSK	50	56	21.53	21.56	21.50		23.0	1.0
20	QPSK	100	0	21.51	21.61	21.30			
20	16QAM	1	1	21.60	21.62	21.50		23.0	1.0
20	64QAM	1	1	19.90	19.85	19.67		21.5	2.5
20	256QAM	1	1	17.99	18.23	18.10		19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.39	22.45	22.36		0.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.44	22.47	22.46		0.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.41	22.44	22.43		24.0	0.0

n7 Modem D Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	19.49	19.42	19.45		20.5	0.0
40	PI/2 BPSK	1	108	19.37	19.48	19.37			
40	PI/2 BPSK	1	214	19.44	19.40	19.43		20.5	0.0
40	PI/2 BPSK	108	0	19.35	19.49	19.52			
40	PI/2 BPSK	108	54	19.47	19.45	19.53		20.5	0.0
40	PI/2 BPSK	108	108	19.48	19.53	19.48		20.5	0.0
40	PI/2 BPSK	216	0	19.37	19.41	19.38			
40	QPSK	1	1	19.43	19.55	19.51		20.5	0.0
40	QPSK	1	108	19.43	19.40	19.52			
40	QPSK	1	214	19.40	19.44	19.38		20.5	0.0
40	QPSK	108	0	19.39	19.49	19.47			
40	QPSK	108	54	19.40	19.53	19.49		20.5	0.0
40	QPSK	108	108	19.42	19.43	19.49		20.5	0.0
40	QPSK	216	0	19.41	19.52	19.39			
40	16QAM	1	1	19.41	19.46	19.39		20.5	0.0
40	64QAM	1	1	19.40	19.40	19.47		20.5	0.0
40	256QAM	1	1	17.98	18.12	18.00		19.0	1.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.48	19.51	19.44		20.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.38	19.50	19.48		20.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	19.51	19.49	19.42		20.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	19.47	19.51	19.43		20.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.46	19.43	19.42		20.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.44	19.42	19.42		20.5	0.0

n25 Modem D Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI/2 BPSK	1	1	22.52	22.71	22.62		24.0	0.0
40	PI/2 BPSK	1	108	22.61	22.62	22.26			
40	PI/2 BPSK	1	214	22.49	22.60	22.54		23.5	0.5
40	PI/2 BPSK	108	0	22.15	22.06	22.16			
40	PI/2 BPSK	108	54	22.69	22.58	22.52		24.0	0.0
40	PI/2 BPSK	108	108	22.33	22.47	22.11		23.5	0.5
40	PI/2 BPSK	216	0	22.12	22.55	21.98			
40	QPSK	1	1	22.67	22.72	22.56		24.0	0.0
40	QPSK	1	108	22.57	22.66	22.61			
40	QPSK	1	214	22.37	22.68	22.48		23.0	1.0
40	QPSK	108	0	21.48	21.60	21.64			
40	QPSK	108	54	22.70	22.71	22.63		24.0	0.0
40	QPSK	108	108	21.74	21.87	21.69		23.0	1.0
40	QPSK	216	0	21.73	21.77	21.66			
40	16QAM	1	1	21.83	21.86	21.71		23.0	1.0
40	64QAM	1	1	20.16	20.01	19.93		21.5	2.5
40	256QAM	1	1	18.17	18.47	18.21		19.5	4.5
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.63	22.66	22.56		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	22.69	22.69	22.51		24.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.64	22.65	22.53		24.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.60	22.68	22.53		24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	22.67	22.65	22.51		24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.66	22.64	22.51		24.0	0.0

n30 Modem D Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		12.90		14.5	0.0	
10	PI/2 BPSK	1	26		12.96				
10	PI/2 BPSK	1	50		12.75		14.5	0.0	
10	PI/2 BPSK	25	0		12.73				
10	PI/2 BPSK	25	14		12.68		14.5	0.0	
10	PI/2 BPSK	25	27		12.82				
10	PI/2 BPSK	50	0		12.68		14.5	0.0	
10	QPSK	1	1		13.25				
10	QPSK	1	26		13.16		14.5	0.0	
10	QPSK	1	50		13.24				
10	QPSK	25	0		13.15		14.5	0.0	
10	QPSK	25	14		13.17		14.5	0.0	
10	QPSK	25	27		12.82		14.5	0.0	
10	QPSK	50	0		13.02		14.5	0.0	
10	16QAM	1	1		12.98		14.5	0.0	
10	64QAM	1	1		12.94		14.5	0.0	
10	256QAM	1	1		13.21		14.5	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	13.10	13.17	13.05	14.5	0.0	

n66 Modem D Ant2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				346000	349000	352000				
Frequency (MHz)				1720	1745	1760				
40	PI/2 BPSK	1	1	19.07	19.05	19.12		21.0	0.0	
40	PI/2 BPSK	1	108	19.01	19.20	19.10				
40	PI/2 BPSK	1	214	19.10	19.26	19.09		21.0	0.0	
40	PI/2 BPSK	108	0	19.05	19.10	19.08				
40	PI/2 BPSK	108	54	19.04	19.04	19.06		21.0	0.0	
40	PI/2 BPSK	108	108	19.08	19.19	19.06				
40	PI/2 BPSK	216	0	19.04	19.28	19.06		21.0	0.0	
40	QPSK	1	1	19.19	19.31	19.10				
40	QPSK	1	108	19.10	19.15	19.08		21.0	0.0	
40	QPSK	1	214	19.03	19.20	19.11				
40	QPSK	108	0	19.07	19.17	19.11		21.0	0.0	
40	QPSK	108	54	19.17	19.19	19.15				
40	QPSK	108	108	19.04	19.13	19.12		21.0	0.0	
40	QPSK	216	0	19.13	19.25	19.17				
40	16QAM	1	1	19.02	19.16	19.10		21.0	0.0	
40	64QAM	1	1	19.08	19.15	19.13				
40	256QAM	1	1	19.16	19.22	19.12	20.0	21.0	1.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	19.08	19.20	19.15		21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	1	19.04	19.19	19.10		21.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	1	19.06	19.17	19.14		21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	19.02	19.13	19.11		21.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	1	19.10	19.13	19.15		21.0	0.0	

n70 Modem D Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340000		340500			
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1		19.21		21.0	0.0	
15	PI/2 BPSK	1	40		19.24				
15	PI/2 BPSK	1	77		19.33		21.0	0.0	
15	PI/2 BPSK	36	0		19.22				
15	PI/2 BPSK	36	22		19.26		21.0	0.0	
15	PI/2 BPSK	36	43		19.24				
15	PI/2 BPSK	75	0		19.34		21.0	0.0	
15	QPSK	1	1		19.38				
15	QPSK	1	40		19.25		21.0	0.0	
15	QPSK	1	77		19.25				
15	QPSK	36	0		19.23		21.0	0.0	
15	QPSK	36	22		19.26				
15	QPSK	36	43		19.25		21.0	0.0	
15	QPSK	75	0		19.33				
15	16QAM	1	1		19.30		21.0	0.0	
15	64QAM	1	1		19.30				
15	256QAM	1	1		19.40		20.0	1.0	
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	19.25	19.31	19.30	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	19.27	19.31	19.31	21.0	0.0	

PC2/3 n38 Modem D Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2590.02	2595	2599.98			
Frequency (MHz)									
40	PI2 BPSK	1	1	19.05	19.22	19.20		21.0	0.0
40	PI2 BPSK	1	53	19.03	19.27	19.28			
40	PI2 BPSK	1	104	19.08	19.21	19.21			
40	PI2 BPSK	50	0	19.01	19.30	19.17	21.0	0.0	
40	PI2 BPSK	50	28	19.01	19.31	19.25	21.0	0.0	
40	PI2 BPSK	50	56	19.01	19.31	19.18		21.0	0.0
40	PI2 BPSK	100	0	19.05	19.30	19.22			
40	QPSK	1	1	19.05	19.41	19.21			
40	QPSK	1	53	19.09	19.19	19.29	21.0	0.0	
40	QPSK	1	104	19.09	19.25	19.28		21.0	0.0
40	QPSK	50	0	19.06	19.32	19.22			
40	QPSK	50	28	19.03	19.34	19.28	21.0	0.0	
40	QPSK	50	56	19.11	19.33	19.22		21.0	0.0
40	QPSK	100	0	19.12	19.38	19.31			
40	16QAM	1	1	19.12	19.28	19.24	21.0		
40	64QAM	1	1	19.08	19.23	19.28	21.0	0.0	
40	256QAM	1	1	17.64	17.76	17.79	19.5	1.5	
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2599.98			
30	QPSK	1	1	19.09	19.38	19.35	21.0	0.0	
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.01	19.34	19.36	21.0	0.0	
Channel				515002	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.48			
15	QPSK	1	1	19.05	19.40	19.35	21.0	0.0	
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.10	19.28	19.38	21.0	0.0	

PC2/3 n41 Modem D Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	19.13	19.40	19.36		21.0	0.0
100	PI2 BPSK	1	137	19.09	19.39	19.42			
100	PI2 BPSK	1	271	19.15	19.37	19.42			
100	PI2 BPSK	135	0	19.19	19.48	19.36	21.0	0.0	
100	PI2 BPSK	135	69	19.14	19.44	19.35	21.0	0.0	
100	PI2 BPSK	135	138	19.12	19.48	19.35		21.0	0.0
100	PI2 BPSK	270	0	19.09	19.41	19.38			
100	QPSK	1	1	19.20	19.50	19.31			
100	QPSK	1	137	19.11	19.37	19.38	21.0	0.0	
100	QPSK	1	271	19.17	19.43	19.34		21.0	0.0
100	QPSK	135	0	19.14	19.48	19.31			
100	QPSK	135	69	19.10	19.49	19.37	21.0	0.0	
100	QPSK	135	138	19.19	19.46	19.32		21.0	0.0
100	QPSK	270	0	19.18	19.45	19.43			
100	16QAM	1	1	19.09	19.38	19.32	21.0	0.0	
100	64QAM	1	1	19.18	19.39	19.36	21.0	0.0	
100	256QAM	1	1	17.77	17.90	17.94	19.5	1.5	
Channel				506200	518598	528998		MPR (dB)	
Frequency (MHz)				2641	2592.99	2644.99			
90	QPSK	1	1	19.19	19.46	19.43	21.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2592.99	2648.99			
80	QPSK	1	1	19.22	19.44	19.33	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	19.20	19.35	19.40	21.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2620	2592.99	2659.98			
60	QPSK	1	1	19.11	19.44	19.39	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2612.09	2592.99	2664.99			
50	QPSK	1	1	19.07	19.46	19.39	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	19.19	19.46	19.36	21.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	19.07	19.41	19.41	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2606.03	2592.99	2679.99			
20	QPSK	1	1	19.11	19.43	19.40	21.0	0.0	

n48_FCC Modem D Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.98	3679.98			
40	PI2 BPSK	1	1	15.19	15.28	15.22		17.0	0.0
40	PI2 BPSK	1	53	15.17	15.10	15.17			
40	PI2 BPSK	1	104	15.16	15.34	15.06			
40	PI2 BPSK	50	0	15.07	14.93	14.69	16.5	0.5	
40	PI2 BPSK	50	28	15.17	15.24	15.13	17.0	0.0	
40	PI2 BPSK	50	56	14.96	15.10	14.74		16.5	0.5
40	PI2 BPSK	100	0	14.99	15.05	14.65			
40	QPSK	1	1	15.38	15.41	15.25			
40	QPSK	1	53	15.32	15.22	15.18	17.0	0.0	
40	QPSK	1	104	15.27	15.37	15.12		16.0	1.0
40	QPSK	50	0	14.37	14.49	14.42			
40	QPSK	50	28	15.23	15.33	15.22	17.0	0.0	
40	QPSK	50	56	14.45	14.28	14.28	16.0	1.0	
40	QPSK	100	0	14.36	14.60	14.40		16.0	1.0
40	16QAM	1	1	14.29	14.45	14.36			
40	64QAM	1	1	12.87	12.92	12.76	14.5	2.5	
40	256QAM	1	1	10.82	10.82	10.79	12.5	4.5	
Channel				637334	641666	646000		MPR (dB)	
Frequency (MHz)				3560.01	3624.98	3674.98			
20	QPSK	1	1	15.29	15.39	15.20	17.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3684.98			
10	QPSK	1	1	15.28	15.32	15.25	17.0	0.0	

PC3/PC2 Part270 n77 Modem D Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	22.44	22.52	22.56	24.0	0.0
100	Pi2 BPSK	1	137	22.31	22.23	22.31	24.0	0.0
100	Pi2 BPSK	1	271	22.48	22.56	22.50	24.0	0.0
100	Pi2 BPSK	135	0	22.45	22.50	22.41	24.0	0.0
100	Pi2 BPSK	135	69	22.35	22.23	22.27	24.0	0.0
100	Pi2 BPSK	135	138	22.37	22.27	22.29	24.0	0.0
100	Pi2 BPSK	270	0	22.24	22.38	22.27	24.0	0.0
100	QPSK	1	1	22.51	22.57	22.52	24.0	0.0
100	QPSK	1	137	22.26	22.23	22.23	24.0	0.0
100	QPSK	1	271	22.21	22.24	22.23	24.0	0.0
100	QPSK	135	0	22.45	22.40	22.40	24.0	0.0
100	QPSK	135	69	22.33	22.47	22.28	24.0	0.0
100	QPSK	135	138	22.41	22.36	22.34	24.0	0.0
100	QPSK	270	0	22.32	22.35	22.28	24.0	0.0
100	16QAM	1	1	22.21	22.27	22.25	24.0	0.0
100	64QAM	1	1	22.21	22.27	22.30	24.0	0.0
100	256QAM	1	1	20.73	20.79	20.73	22.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.26	22.29	22.30	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.32	22.41	22.17	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.32	22.22	22.24	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.40	22.23	22.29	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.37	22.27	22.25	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.41	22.24	22.39	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.21	22.40	22.27	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.28	22.30	22.16	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.34	22.40	22.28	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.27	22.44	22.36	24.0	0.0

PC3/PC2 Part270 n77 Modem D Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	22.36	22.36		24.0	0.0
100	Pi2 BPSK	1	137	22.43	22.43		24.0	0.0
100	Pi2 BPSK	1	271	22.33	22.33		24.0	0.0
100	Pi2 BPSK	135	0	22.45	22.45		24.0	0.0
100	Pi2 BPSK	135	69	22.49	22.49		24.0	0.0
100	Pi2 BPSK	135	138	22.43	22.43		24.0	0.0
100	Pi2 BPSK	270	0	22.41	22.41		24.0	0.0
100	QPSK	1	1	22.58	22.58		24.0	0.0
100	QPSK	1	137	22.54	22.54		24.0	0.0
100	QPSK	1	271	22.42	22.42		24.0	0.0
100	QPSK	135	0	22.45	22.45		24.0	0.0
100	QPSK	135	69	22.51	22.51		24.0	0.0
100	QPSK	135	138	22.49	22.49		24.0	0.0
100	QPSK	270	0	22.44	22.44		24.0	0.0
100	16QAM	1	1	22.39	22.39		24.0	0.0
100	64QAM	1	1	22.49	22.49		24.0	0.0
100	256QAM	1	1	20.37	20.37		22.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.19	22.21	22.20	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.12	22.16	22.09	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.23	22.21	22.08	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.10	22.14	22.12	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.18	22.24	22.17	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.19	22.20	22.20	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.10	22.16	22.12	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.22	22.09	22.19	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.13	22.24	22.20	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.17	22.21	22.19	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	22.11	22.11		24.0	0.0
100	Pi2 BPSK	1	137	22.24	22.24		24.0	0.0
100	Pi2 BPSK	1	271	22.09	22.09		24.0	0.0
100	Pi2 BPSK	135	0	22.27	22.27		24.0	0.0
100	Pi2 BPSK	135	69	22.36	22.36		24.0	0.0
100	Pi2 BPSK	135	138	22.30	22.30		24.0	0.0
100	Pi2 BPSK	270	0	22.19	22.19		24.0	0.0
100	QPSK	1	1	22.40	22.40		24.0	0.0
100	QPSK	1	137	22.16	22.16		24.0	0.0
100	QPSK	1	271	22.16	22.16		24.0	0.0
100	QPSK	135	0	22.10	22.10		24.0	0.0
100	QPSK	135	69	22.35	22.35		24.0	0.0
100	QPSK	135	138	22.18	22.18		24.0	0.0
100	QPSK	270	0	22.25	22.25		24.0	0.0
100	16QAM	1	1	22.14	22.14		24.0	0.0
100	64QAM	1	1	22.02	22.02		24.0	0.0
100	256QAM	1	1	20.20	20.20		22.0	2.0
Channel								
				64568	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
90	QPSK	1	1	22.15	22.10	22.05	24.0	0.0
Channel								
				64534	65000	65068	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
80	QPSK	1	1	22.11	22.14	22.10	24.0	0.0
Channel								
				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
70	QPSK	1	1	22.04	22.17	22.29	24.0	0.0
Channel								
				64668	65000	65134	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
60	QPSK	1	1	22.07	22.02	22.12	24.0	0.0
Channel								
				64334	65000	65168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
50	QPSK	1	1	22.01	22.10	22.10	24.0	0.0
Channel								
				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
40	QPSK	1	1	22.11	22.10	22.10	24.0	0.0
Channel								
				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	22.08	22.06	22.03	24.0	0.0
Channel								
				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	22.05	22.03	22.18	24.0	0.0
Channel								
				64768	65000	65268	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	22.14	22.17	22.04	24.0	0.0
Channel								
				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	22.05	22.03	22.26	24.0	0.0

<2.4GHz WLAN>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.75	20.00	99.07
		6	2437	19.85	20.00	
		11	2462	19.77	20.00	
	802.11g 6Mbps	1	2412	19.67	20.00	94.00
		6	2437	19.74	20.00	
		11	2462	19.64	20.00	
	802.11n-HT20 MCS0	1	2412	19.75	20.00	91.67
		6	2437	19.67	20.00	
		11	2462	19.75	20.00	
	802.11n-HT40 MCS0	3	2422	19.25	19.50	87.67
		6	2437	19.17	19.50	
		9	2452	19.20	19.50	

<5.2GHz WLAN>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.72	20.00	95.03
		40	5200	19.75	20.00	
		44	5220	19.71	20.00	
		48	5240	19.69	20.00	
	802.11n-HT20 MCS0	36	5180	19.61	20.00	93.97
		40	5200	19.66	20.00	
		44	5220	19.69	20.00	
		48	5240	19.69	20.00	
	802.11n-HT40 MCS0	38	5190	19.22	19.50	89.73
		46	5230	19.24	19.50	

<5.3GHz WLAN>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5280	19.65	20.00	95.03
		56	5280	19.72	20.00	
		60	5300	19.72	20.00	
		64	5320	19.67	20.00	
	802.11n-HT20 MCS0	52	5280	19.62	20.00	93.97
		56	5280	19.69	20.00	
		60	5300	19.68	20.00	
		64	5320	19.69	20.00	
	802.11n-HT40 MCS0	54	5270	19.32	19.50	89.73
		62	5310	19.34	19.50	

<5.8GHz WLAN>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	100	5500	19.62	20.00	95.03
		116	5580	19.70	20.00	
		112	5560	19.77	20.00	
		124	5620	19.70	20.00	
		132	5660	19.64	20.00	
		140	5700	19.55	20.00	
		100	5500	19.68	20.00	
		116	5580	19.54	20.00	
	802.11n-HT20 MCS0	112	5560	19.69	20.00	93.97
		124	5620	19.61	20.00	
		132	5660	19.61	20.00	
		140	5700	19.68	20.00	
		102	5510	19.26	19.50	
		110	5550	19.40	19.50	
		126	5630	19.37	19.50	
		134	5670	19.38	19.50	

<5.8GHz WLAN>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	19.73	20.00	95.03
		157	5785	19.69	20.00	
		165	5825	19.68	20.00	
		149	5745	19.69	20.00	
	802.11n-HT20 MCS0	157	5785	19.69	20.00	93.97
		165	5825	19.64	20.00	
		151	5755	19.32	19.50	
		159	5795	19.36	19.50	