



Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9282	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	RMC 12.2Kbps	24.89	24.92	24.91	25.50	24.53	24.92	24.89	25.50	24.44	24.40	24.30	25.50
3GPP Rel 6	HSDPA Subtest-1	24.36	24.39	24.40	24.50	24.06	24.07	24.00	24.50	24.28	24.34	24.36	24.50
3GPP Rel 6	HSDPA Subtest-2	24.03	24.03	24.06	24.50	24.01	24.08	24.03	24.50	23.76	23.86	23.85	24.50
3GPP Rel 6	HSDPA Subtest-3	23.52	23.58	23.70	24.00	23.70	23.82	23.95	24.00	23.76	23.83	23.84	24.00
3GPP Rel 6	HSDPA Subtest-4	23.59	23.60	23.51	24.00	23.82	23.84	23.90	24.00	23.86	23.85	23.80	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	23.77	23.88	23.78	24.50	23.67	23.86	23.89	24.50	24.24	24.41	24.39	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	23.86	23.90	23.82	24.50	23.81	23.72	23.91	24.50	23.84	23.89	23.87	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	23.30	23.35	23.43	24.00	23.21	23.23	23.31	24.00	23.69	23.90	23.87	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	23.38	23.44	23.48	24.00	23.79	23.81	23.85	24.00	22.34	22.31	22.86	24.00
3GPP Rel 6	HSUPA Subtest-1	22.89	22.87	22.90	24.50	22.56	22.64	22.68	24.50	22.85	22.83	22.88	24.50
3GPP Rel 6	HSUPA Subtest-2	22.39	22.16	22.18	22.50	21.28	21.34	21.41	22.50	22.19	22.27	22.30	22.50
3GPP Rel 6	HSUPA Subtest-3	22.38	22.42	22.41	23.50	21.81	21.86	21.95	23.50	22.31	22.33	22.42	23.50
3GPP Rel 6	HSUPA Subtest-4	22.18	22.13	22.10	22.50	21.40	21.47	21.41	22.50	22.10	22.15	22.28	22.50
3GPP Rel 6	HSUPA Subtest-5	23.38	23.39	23.26	24.50	22.52	22.59	22.61	24.50	23.03	23.06	23.06	24.50
3GPP Rel 7	HSUPA+ (16QAM) Subtest-	21.28	21.16	21.08	22.00	21.00	21.07	20.93	22.00	20.80	20.87	20.73	22.00



Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9282	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9862	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	RMC 12.2Kbps	17.50	17.54	17.57	19.00	18.36	18.37	18.10	19.40	21.28	21.30	21.22	21.30
3GPP Rel 6	HSDPA Subtest-1	16.80	16.62	16.72	18.00	17.90	17.91	17.90	18.40	19.81	19.91	19.88	20.30
3GPP Rel 6	HSDPA Subtest-2	16.75	16.59	16.82	18.00	17.89	17.89	17.89	18.40	19.35	19.44	19.42	20.30
3GPP Rel 6	HSDPA Subtest-3	16.22	16.15	16.52	17.50	17.33	17.35	17.33	17.90	19.31	19.34	19.42	19.80
3GPP Rel 6	HSDPA Subtest-4	16.33	16.12	16.50	17.50	17.34	17.40	17.40	17.90	19.36	19.39	19.31	19.80
3GPP Rel 8	DC-HSDPA Subtest-1	16.73	16.66	16.74	18.00	17.55	17.74	17.76	18.40	19.82	19.94	19.90	20.30
3GPP Rel 8	DC-HSDPA Subtest-2	16.80	16.56	16.71	18.00	17.64	17.52	17.80	18.40	19.36	19.41	19.47	20.30
3GPP Rel 8	DC-HSDPA Subtest-3	16.27	16.14	16.47	17.50	17.03	17.12	17.19	17.90	19.22	18.95	18.39	19.80
3GPP Rel 8	DC-HSDPA Subtest-4	16.33	16.13	16.47	17.50	17.15	17.16	17.14	17.90	18.89	18.90	18.40	19.80
3GPP Rel 6	HSUPA Subtest-1	16.78	16.61	16.72	18.00	17.43	17.46	17.48	18.40	19.38	19.33	19.41	20.30
3GPP Rel 6	HSUPA Subtest-2	14.72	14.58	14.76	16.00	15.09	15.19	15.27	16.40	17.71	17.81	17.88	18.30
3GPP Rel 6	HSUPA Subtest-3	15.76	15.65	15.83	17.00	15.61	15.67	15.78	17.40	18.89	18.85	18.97	19.30
3GPP Rel 6	HSUPA Subtest-4	14.82	14.59	14.80	16.00	15.25	15.34	15.28	16.40	17.70	17.65	17.87	18.30
3GPP Rel 6	HSUPA Subtest-5	16.81	16.61	16.77	18.00	17.32	17.40	17.50	18.40	19.54	19.62	19.60	20.30
3GPP Rel 7	HSUPA+ (16QAM) Subtest-	14.11	14.05	14.13	15.50	14.84	14.97	14.81	15.90	17.36	17.37	17.28	17.80



Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
TX 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	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	RMC 12.2Kbps	13.82	13.92	13.95	14.00	12.03	12.04	11.74	12.40	15.80	15.87	15.76	16.10
3GPP Rel 6	HSDPA Subtest-1	12.81	12.69	12.81	13.00	11.05	11.09	10.71	11.40	14.58	14.64	14.66	15.10
3GPP Rel 6	HSDPA Subtest-2	12.85	12.68	12.85	13.00	11.09	11.08	10.75	11.40	14.06	14.16	14.15	15.10
3GPP Rel 6	HSDPA Subtest-3	12.32	12.20	12.57	12.50	10.56	10.60	10.47	10.90	14.06	14.13	14.14	14.60
3GPP Rel 6	HSDPA Subtest-4	12.36	12.22	12.53	12.50	10.60	10.62	10.43	10.90	14.16	14.15	14.10	14.60
3GPP Rel 8	DC-HSDPA Subtest-1	12.80	12.68	12.81	13.00	11.04	11.08	10.71	11.40	14.54	14.71	14.69	15.10
3GPP Rel 8	DC-HSDPA Subtest-2	12.82	12.66	12.80	13.00	11.06	11.06	10.70	11.40	14.14	14.19	14.17	15.10
3GPP Rel 8	DC-HSDPA Subtest-3	12.33	12.21	12.56	12.50	10.57	10.61	10.46	10.90	13.99	13.70	13.17	14.60
3GPP Rel 8	DC-HSDPA Subtest-4	12.35	12.22	12.54	12.50	10.59	10.62	10.44	10.90	13.64	13.61	13.16	14.60
3GPP Rel 6	HSUPA Subtest-1	12.82	12.69	12.82	13.00	11.06	11.09	10.72	11.40	14.15	14.13	14.18	15.10
3GPP Rel 6	HSUPA Subtest-2	10.81	10.63	10.83	11.00	9.05	9.03	8.73	9.40	12.49	12.57	12.60	13.10
3GPP Rel 6	HSUPA Subtest-3	11.83	11.66	11.84	12.00	10.07	10.06	9.74	10.40	13.61	13.63	13.72	14.10
3GPP Rel 6	HSUPA Subtest-4	10.85	10.65	10.84	11.00	9.09	9.05	8.74	9.40	12.40	12.45	12.58	13.10
3GPP Rel 6	HSUPA Subtest-5	12.86	12.70	12.81	13.00	11.10	11.10	10.71	11.40	14.33	14.36	14.36	15.10
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	10.18	10.06	10.19	10.50	8.42	8.46	8.09	8.90	12.10	12.17	12.03	12.60



Band 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23450	23525	23550			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.33	23.11	23.08			
10	QPSK	1	25	23.00	23.00	23.02	25	0	
10	QPSK	1	49	23.09	23.05	23.00			
10	QPSK	25	0	22.25	22.25	22.15			
10	QPSK	25	12	22.31	22.18	22.20	24	1	
10	QPSK	25	25	22.25	22.21	22.11			
10	QPSK	50	0	22.27	22.27	22.08			
10	16QAM	1	0	22.48	22.48	22.42			
10	16QAM	1	25	22.44	22.43	22.22	24	1	
10	16QAM	1	49	22.43	22.42	22.32			
10	16QAM	25	0	21.19	21.13	21.12			
10	16QAM	25	12	21.32	21.15	21.07	23	2	
10	16QAM	25	25	21.10	21.26	21.27			
10	16QAM	50	0	21.24	21.20	21.15			
10	64QAM	1	0	21.31	21.36	21.36			
10	64QAM	1	25	21.32	21.36	21.41	23	2	
10	64QAM	1	49	21.13	21.33	21.09			
10	64QAM	25	0	20.21	20.17	20.20			
10	64QAM	25	12	20.35	20.25	20.75	22	3	
10	64QAM	25	25	20.23	20.19	20.52			
10	64QAM	50	0	20.32	20.21	20.01			
Channel				23425	23525	23625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	23.27	23.10	23.02			
5	QPSK	1	12	23.28	23.18	23.02	25	0	
5	QPSK	1	24	23.09	23.05	23.12			
5	QPSK	12	0	22.22	22.23	22.06			
5	QPSK	12	7	22.23	22.16	22.14	24	1	
5	QPSK	12	13	22.24	22.20	22.01			
5	QPSK	25	0	22.22	22.24	22.03			
5	16QAM	1	0	22.44	22.40	22.38			
5	16QAM	1	12	22.34	22.33	22.17	24	1	
5	16QAM	1	24	22.38	22.39	22.22			
5	16QAM	12	0	21.12	21.11	21.07			
5	16QAM	12	7	21.29	21.08	21.01	23	2	
5	16QAM	12	13	21.00	21.25	21.22			
5	16QAM	25	0	21.18	21.19	21.06			
5	64QAM	1	0	21.25	21.32	21.29			
5	64QAM	1	12	21.32	21.31	21.40	23	2	
5	64QAM	1	24	21.11	21.33	21.09			
5	64QAM	12	0	20.11	20.17	20.12			
5	64QAM	12	7	20.27	20.18	20.73	22	3	
5	64QAM	12	13	20.23	20.17	20.70			
5	64QAM	25	0	20.32	20.12	20.01			
Channel				23415	23525	23635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	23.29	23.01	23.01			
3	QPSK	1	8	23.22	23.00	23.22	25	0	
3	QPSK	1	14	23.04	23.00	23.12			
3	QPSK	8	0	22.20	22.16	22.06			
3	QPSK	8	4	22.25	22.09	22.15	24	1	
3	QPSK	8	7	22.19	22.21	22.02			
3	QPSK	16	0	22.23	22.23	22.03			
3	16QAM	1	0	22.44	22.39	22.37			
3	16QAM	1	8	22.42	22.41	22.17	24	1	
3	16QAM	1	14	22.40	22.32	22.29			
3	16QAM	8	0	21.18	21.03	21.10			
3	16QAM	8	4	21.29	21.07	21.03	23	2	
3	16QAM	8	7	21.02	21.22	21.25			
3	16QAM	16	0	21.17	21.18	21.12			
3	64QAM	1	0	21.22	21.33	21.31			
3	64QAM	1	8	21.32	21.36	21.35	23	2	
3	64QAM	1	14	21.07	21.30	21.00			
3	64QAM	8	0	20.18	20.12	20.14			
3	64QAM	8	4	20.31	20.18	20.66	22	3	
3	64QAM	8	7	20.16	20.19	20.44			
3	64QAM	16	0	20.28	20.16	20.94			
Channel				23407	23525	23643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.31	23.08	23.06			
1.4	QPSK	1	3	23.16	23.15	23.15			
1.4	QPSK	1	5	23.19	23.16	23.10	25	0	
1.4	QPSK	3	0	23.30	23.08	23.19			
1.4	QPSK	3	1	23.17	23.18	23.16			
1.4	QPSK	3	3	23.17	23.19	23.08			
1.4	QPSK	6	0	22.18	22.27	22.00	24	1	
1.4	16QAM	1	0	22.38	22.43	22.41			
1.4	16QAM	1	3	22.41	22.42	22.14			
1.4	16QAM	1	5	22.36	22.42	22.24	24	1	
1.4	16QAM	3	0	22.28	22.41	22.35			
1.4	16QAM	3	1	22.40	22.35	22.14			
1.4	16QAM	3	3	22.36	22.42	22.21			
1.4	16QAM	6	0	21.14	21.19	21.15	23	2	
1.4	64QAM	1	0	21.30	21.36	21.31			
1.4	64QAM	1	3	21.24	21.31	21.14			
1.4	64QAM	1	5	21.04	21.25	21.09	23	2	
1.4	64QAM	3	0	21.26	21.26	21.31			
1.4	64QAM	3	1	21.24	21.29	21.30			
1.4	64QAM	3	3	21.04	21.20	21.04			
1.4	64QAM	6	0	20.25	20.19	20.14	22	3	



Band 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				2365	2100				
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	24.54	24.80	23.88			
20	QPSK	1	49	23.81	24.58	23.28			25
20	QPSK	1	99	23.58	23.83	23.00			
20	QPSK	50	0	23.16	23.55	22.55			
20	QPSK	50	24	22.82	23.51	23.13			24
20	QPSK	50	50	22.31	23.27	22.92			
20	QPSK	100	0	22.60	23.64	22.73			
20	16QAM	1	0	23.50	23.77	22.51			
20	16QAM	1	49	22.96	23.73	23.25			24
20	16QAM	1	99	22.78	23.11	22.94			
20	16QAM	50	0	22.14	22.52	21.58			
20	16QAM	50	24	21.73	22.85	22.14			23
20	16QAM	50	50	21.42	22.37	21.86			
20	16QAM	100	0	21.71	22.58	21.65			
20	64QAM	1	0	21.58	21.83	21.36			
20	64QAM	1	49	21.11	22.09	21.04			23
20	64QAM	1	99	21.36	21.37	21.09			
20	64QAM	50	0	20.37	21.01	20.11			
20	64QAM	50	24	21.44	21.07	20.15			
20	64QAM	50	50	21.46	20.64	20.19			22
20	64QAM	100	0	21.50	20.85	21.45			
Channel				2365	2100	2137.5			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	24.11	24.48	23.68			
15	QPSK	1	37	23.53	24.57	24.17			25
15	QPSK	1	74	23.36	24.07	23.02			
15	QPSK	36	0	23.04	23.55	23.13			
15	QPSK	36	20	22.66	23.64	23.23			24
15	QPSK	36	39	22.36	23.43	22.59			
15	QPSK	75	0	22.58	23.56	22.79			
15	16QAM	1	0	23.30	23.74	22.76			
15	16QAM	1	37	22.89	23.82	23.33			24
15	16QAM	1	74	22.54	23.29	22.05			
15	16QAM	36	0	22.16	22.56	22.07			
15	16QAM	36	20	21.79	22.85	22.17			23
15	16QAM	36	39	21.46	22.45	21.70			
15	16QAM	75	0	21.74	22.65	21.82			
15	64QAM	1	0	21.42	22.82	21.11			
15	64QAM	1	37	21.24	22.17	21.62			23
15	64QAM	1	74	21.28	21.70	21.19			
15	64QAM	36	0	20.50	21.16	20.23			
15	64QAM	36	20	20.12	21.17	20.47			22
15	64QAM	36	39	20.13	20.82	20.20			
15	64QAM	75	0	20.07	20.88	20.01			
Channel				2365	2100	2140.0			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	24.18	24.20	24.28			
10	QPSK	1	25	23.83	24.16	23.79			25
10	QPSK	1	49	23.57	24.28	23.14			
10	QPSK	25	0	23.15	23.34	23.24			
10	QPSK	25	12	23.00	23.45	22.52			24
10	QPSK	25	25	22.68	23.45	22.20			
10	QPSK	50	0	22.75	23.45	22.68			
10	16QAM	1	0	23.40	23.82	23.46			
10	16QAM	1	25	23.10	23.89	23.06			24
10	16QAM	1	49	22.91	23.71	22.43			
10	16QAM	25	0	22.27	22.40	22.29			
10	16QAM	25	12	22.11	22.51	22.00			
10	16QAM	25	25	21.79	22.49	21.39			23
10	16QAM	50	0	21.96	22.51	21.74			
10	64QAM	1	0	21.60	22.11	21.35			
10	64QAM	1	25	21.44	22.21	21.35			23
10	64QAM	1	49	21.29	22.10	21.20			
10	64QAM	25	0	20.58	21.23	20.46			
10	64QAM	25	12	20.42	21.24	20.43			
10	64QAM	25	25	20.12	20.97	20.26			22
10	64QAM	50	0	20.29	21.05	20.11			
Channel				2372.5	2100	2142.5			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	24.32	24.21	23.81			
5	QPSK	1	12	24.10	24.31	23.01			25
5	QPSK	1	24	23.94	24.31	23.14			
5	QPSK	12	0	23.37	23.35	22.54			
5	QPSK	12	7	23.31	23.46	22.11			
5	QPSK	12	13	23.13	23.42	22.86			24
5	QPSK	25	0	23.17	23.43	22.93			
5	16QAM	1	0	23.52	23.53	22.82			
5	16QAM	1	12	23.38	23.55	22.21			24
5	16QAM	1	24	23.23	23.61	22.40			
5	16QAM	12	0	22.43	22.40	21.62			
5	16QAM	12	7	22.38	22.42	21.24			
5	16QAM	12	13	22.26	22.44	21.99			23
5	16QAM	25	0	22.33	22.43	21.17			
5	64QAM	1	0	21.75	22.19	21.21			
5	64QAM	1	12	21.64	22.19	21.33			23
5	64QAM	1	24	21.56	22.21	21.48			
5	64QAM	12	0	20.75	21.25	20.22			
5	64QAM	12	7	20.79	21.34	20.28			22
5	64QAM	12	13	20.65	21.24	20.19			
5	64QAM	25	0	20.70	21.20	20.27			



Band 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2300	2306	2310			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	23.10	23.24	23.16			
10	QPSK	1	25	23.18	23.17	23.15		25	0
10	QPSK	1	49	23.05	23.21	23.02			
10	QPSK	25	0	22.82	22.36	22.31			
10	QPSK	25	12	22.83	22.28	22.29		24	1
10	QPSK	25	25	22.31	22.33	22.32			
10	QPSK	50	0	22.29	22.32	22.33			
10	16QAM	1	0	22.42	22.80	22.63			
10	16QAM	1	25	22.77	22.85	22.49		24	1
10	16QAM	1	49	22.22	22.48	22.31			
10	16QAM	25	0	21.79	21.25	21.40			
10	16QAM	25	12	21.90	21.38	21.28		23	2
10	16QAM	25	25	21.27	21.34	21.28			
10	16QAM	50	0	21.09	21.34	21.28			
10	64QAM	1	0	22.24	21.83	21.97			
10	64QAM	1	25	21.15	21.51	22.22		23	2
10	64QAM	1	49	21.25	21.43	21.34			
10	64QAM	25	0	20.15	20.13	20.80			
10	64QAM	25	12	20.17	20.54	20.86		22	3
10	64QAM	25	25	20.12	20.81	20.58			
10	64QAM	50	0	20.10	20.42	20.67			
Channel				2305	2306	2310			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	23.05	23.22	23.12			
5	QPSK	1	12	23.20	23.12	23.07		25	0
5	QPSK	1	24	23.15	23.11	23.19			
5	QPSK	12	0	22.11	22.15	22.23			
5	QPSK	12	7	22.18	22.18	22.19		24	1
5	QPSK	12	13	22.27	22.33	22.25			
5	QPSK	25	0	22.26	22.31	22.31			
5	16QAM	1	0	22.41	22.59	22.55			
5	16QAM	1	12	22.13	22.58	22.29		24	1
5	16QAM	1	24	22.17	22.42	22.22			
5	16QAM	12	0	21.13	21.15	21.39			
5	16QAM	12	7	21.18	21.35	21.20		23	2
5	16QAM	12	13	21.26	21.29	21.28			
5	16QAM	25	0	21.00	21.27	21.22			
5	64QAM	1	0	21.19	21.56	21.58			
5	64QAM	1	12	21.15	21.48	22.22		23	2
5	64QAM	1	24	21.23	21.37	21.26			
5	64QAM	12	0	20.10	20.13	20.71			
5	64QAM	12	7	20.15	20.49	20.77		22	3
5	64QAM	12	13	20.08	20.79	20.58			
5	64QAM	25	0	20.05	20.38	20.65			
Channel				2302	2306	2310			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	23.01	23.17	23.06			
3	QPSK	1	8	23.12	23.12	23.07		25	0
3	QPSK	1	14	23.03	23.11	23.13			
3	QPSK	8	0	22.16	22.59	22.24			
3	QPSK	8	4	22.13	22.25	22.23		24	1
3	QPSK	8	7	22.31	22.27	22.29			
3	QPSK	15	0	22.19	22.25	22.28			
3	16QAM	1	0	22.33	22.52	22.58			
3	16QAM	1	8	22.19	22.59	22.46		24	1
3	16QAM	1	14	22.21	22.42	22.22			
3	16QAM	8	0	21.17	21.18	21.36			
3	16QAM	8	4	21.72	21.29	21.19		23	2
3	16QAM	8	7	21.26	21.33	21.21			
3	16QAM	15	0	21.03	21.25	21.21			
3	64QAM	1	0	21.20	21.55	21.54			
3	64QAM	1	8	21.05	21.42	22.18		23	2
3	64QAM	1	14	21.22	21.39	21.31			
3	64QAM	8	0	20.14	20.07	20.76			
3	64QAM	8	4	20.17	20.45	20.83		22	3
3	64QAM	8	7	20.06	20.80	20.54			
3	64QAM	15	0	20.03	20.37	20.65			
Channel				2307	2306	2313			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	23.01	23.17	23.11			
1.4	QPSK	1	3	23.18	23.10	23.13			
1.4	QPSK	1	5	23.03	23.19	23.14		25	0
1.4	QPSK	3	0	23.17	23.09	23.10			
1.4	QPSK	3	1	23.13	23.02	23.06			
1.4	QPSK	3	3	23.03	23.13	23.14		24	1
1.4	QPSK	6	0	22.29	22.22	22.33			
1.4	16QAM	1	0	22.34	22.56	22.53			
1.4	16QAM	1	3	22.17	22.60	22.29			
1.4	16QAM	1	5	22.15	22.39	22.22		24	1
1.4	16QAM	3	0	22.26	22.48	22.51			
1.4	16QAM	3	1	22.15	22.82	22.32			
1.4	16QAM	3	3	22.05	22.39	22.16			
1.4	16QAM	6	0	21.07	21.24	21.23		23	2
1.4	64QAM	1	0	21.21	21.60	21.82			
1.4	64QAM	1	3	21.09	21.41	22.21			
1.4	64QAM	1	5	21.22	21.34	21.29		23	2
1.4	64QAM	3	0	21.18	21.53	21.88			
1.4	64QAM	3	1	21.09	21.33	22.18			
1.4	64QAM	3	3	21.13	21.34	21.22			
1.4	64QAM	6	0	20.10	20.33	20.64		22	3



Band 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2330					
Frequency (MHz)				792					
10	QPSK	1	0		23.26				
10	QPSK	1	25		23.15		25	0	
10	QPSK	1	49		23.18				
10	QPSK	25	0		22.37				
10	QPSK	25	12		22.33		24	1	
10	QPSK	25	25		22.34				
10	QPSK	50	0		22.29				
10	16QAM	1	0		22.66				
10	16QAM	1	25		22.57		24	1	
10	16QAM	1	49		22.56				
10	16QAM	25	0		21.43				
10	16QAM	25	12		21.45		23	2	
10	16QAM	25	25		21.34				
10	16QAM	50	0		21.43				
10	64QAM	1	0		21.45				
10	64QAM	1	25		21.45		23	2	
10	64QAM	1	49		21.33				
10	64QAM	25	0		20.45				
10	64QAM	25	12		20.40		22	3	
10	64QAM	25	25		20.35				
10	64QAM	50	0		20.41				
Channel				23205	23230	23255			
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	0	23.15	23.23	23.22			
5	QPSK	1	12	23.06	23.08	23.11	25	0	
5	QPSK	1	24	23.09	23.15	23.16			
5	QPSK	12	0	22.33	22.37	22.31			
5	QPSK	12	7	22.31	22.25	22.30	24	1	
5	QPSK	12	13	22.27	22.32	22.25			
5	QPSK	25	0	22.29	22.33	22.30			
5	16QAM	1	0	22.60	22.65	22.58			
5	16QAM	1	12	22.51	22.55	22.50	24	1	
5	16QAM	1	24	22.54	22.48	22.54			
5	16QAM	12	0	21.34	21.38	21.41			
5	16QAM	12	7	21.37	21.45	21.38	23	2	
5	16QAM	12	13	21.26	21.28	21.32			
5	16QAM	25	0	21.37	21.40	21.38			
5	64QAM	1	0	21.43	21.36	21.44			
5	64QAM	1	12	21.37	21.35	21.35	23	2	
5	64QAM	1	24	21.25	21.31	21.26			
5	64QAM	12	0	20.37	20.42	20.42			
5	64QAM	12	7	20.30	20.36	20.36	22	3	
5	64QAM	12	13	20.25	20.31	20.25			
5	64QAM	25	0	20.36	20.33	20.33			



Band 14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2330					
Frequency (MHz)				793					
10	QPSK	1	0		23.47				
10	QPSK	1	25		23.37		25	0	
10	QPSK	1	49		23.27				
10	QPSK	25	0		22.39				
10	QPSK	25	12		22.39		24	1	
10	QPSK	25	25		22.39				
10	QPSK	50	0		22.32				
10	16QAM	1	0		22.85				
10	16QAM	1	25		22.61		24	1	
10	16QAM	1	49		22.58				
10	16QAM	25	0		21.41				
10	16QAM	25	12		21.38		23	2	
10	16QAM	25	25		21.42				
10	16QAM	50	0		21.41				
10	64QAM	1	0		21.15				
10	64QAM	1	25		21.60		23	2	
10	64QAM	1	49		21.53				
10	64QAM	25	0		20.13				
10	64QAM	25	12		20.46		22	3	
10	64QAM	25	25		20.44				
10	64QAM	50	0		20.46				
Channel				2330	2330	2335	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	0	23.40	23.41	23.38			
5	QPSK	1	12	23.29	23.30	23.38	25	0	
5	QPSK	1	24	23.23	23.28	23.17			
5	QPSK	12	0	22.32	22.29	22.38			
5	QPSK	12	7	22.30	22.32	22.33	24	1	
5	QPSK	12	13	22.38	22.38	22.29			
5	QPSK	25	0	22.39	22.32	22.32			
5	16QAM	1	0	22.84	22.78	22.80			
5	16QAM	1	12	22.59	22.52	22.61	24	1	
5	16QAM	1	24	22.52	22.49	22.46			
5	16QAM	12	0	21.35	21.41	21.31			
5	16QAM	12	7	21.31	21.28	21.29	23	2	
5	16QAM	12	13	21.33	21.37	21.32			
5	16QAM	25	0	21.36	21.32	21.34			
5	64QAM	1	0	21.11	21.08	21.12			
5	64QAM	1	12	21.61	21.52	21.57	23	2	
5	64QAM	1	24	21.44	21.52	21.43			
5	64QAM	12	0	20.04	20.13	20.11			
5	64QAM	12	7	20.37	20.40	20.44	22	3	
5	64QAM	12	13	20.42	20.42	20.39			
5	64QAM	25	0	20.40	20.43	20.42			



Band 17								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2370	2370	2380		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.18	23.30	23.08	25	0
10	QPSK	1	25	23.03	23.29	23.15		
10	QPSK	1	49	23.05	23.09	23.00		
10	QPSK	25	0	22.22	22.31	22.25	24	1
10	QPSK	25	12	22.33	22.31	22.25		
10	QPSK	25	25	22.32	22.33	22.35		
10	QPSK	50	0	22.34	22.30	22.23	24	1
10	16QAM	1	0	22.50	22.57	22.50		
10	16QAM	1	25	22.51	22.50	22.57		
10	16QAM	1	49	22.44	22.47	22.35	23	2
10	16QAM	25	0	21.33	21.29	21.27		
10	16QAM	25	12	21.32	21.25	21.21		
10	16QAM	25	25	21.31	21.38	21.31	23	2
10	16QAM	50	0	21.32	21.32	21.23		
10	64QAM	1	0	21.34	21.76	22.10		
10	64QAM	1	25	21.93	22.00	22.22	23	2
10	64QAM	1	49	21.56	21.60	21.33		
10	64QAM	25	0	20.52	20.73	20.84		
10	64QAM	25	12	19.87	19.94	19.89	22	3
10	64QAM	25	25	19.80	19.72	19.59		
10	64QAM	50	0	19.63	19.66	19.75		
Channel				2375	2370	2385		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.15	23.09	23.02	25	0
5	QPSK	1	12	23.01	23.21	23.11		
5	QPSK	1	24	23.02	23.08	23.05		
5	QPSK	12	0	22.13	22.24	22.23	24	1
5	QPSK	12	7	22.23	22.24	22.16		
5	QPSK	12	13	22.30	22.30	22.28		
5	QPSK	25	0	22.32	22.30	22.18	24	1
5	16QAM	1	0	22.50	22.57	22.42		
5	16QAM	1	12	22.41	22.36	22.57		
5	16QAM	1	24	22.36	22.45	22.27	23	2
5	16QAM	12	0	21.27	21.19	21.20		
5	16QAM	12	7	21.28	21.15	21.21		
5	16QAM	12	13	21.22	21.35	21.24	23	2
5	16QAM	25	0	21.29	21.31	21.19		
5	64QAM	1	0	21.27	21.75	22.08		
5	64QAM	1	12	21.81	21.95	22.21	23	2
5	64QAM	1	24	21.55	21.57	21.27		
5	64QAM	12	0	20.44	20.68	20.84		
5	64QAM	12	7	20.87	20.91	20.87	22	3
5	64QAM	12	13	20.77	20.70	20.54		
5	64QAM	25	0	20.58	20.62	20.75		



Band 26								
EW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				28765	28865	28965		
Frequency (MHz)				811.5	831.5	841.5		
15	QPSK	1	0	23.86	24.16	23.66	25	0
15	QPSK	1	37	23.74	24.09	23.51		
15	QPSK	1	74	24.16	23.64	23.43		
15	QPSK	36	0	22.77	22.81	22.74	24	1
15	QPSK	36	20	23.26	22.84	22.73		
15	QPSK	36	39	23.32	22.84	22.13		
15	QPSK	75	0	23.35	22.78	22.64	24	1
15	16QAM	1	0	23.13	22.85	22.93		
15	16QAM	1	37	23.45	23.11	22.79		
15	16QAM	1	74	23.52	22.98	22.71	23	2
15	16QAM	36	0	21.83	21.78	21.69		
15	16QAM	36	20	22.32	21.79	21.72		
15	16QAM	36	39	22.32	21.78	21.53	22	3
15	16QAM	75	0	22.37	21.85	21.63		
15	64QAM	1	0	21.07	21.81	21.33		
15	64QAM	1	37	21.82	21.21	21.78	23	2
15	64QAM	1	74	22.41	22.06	21.59		
15	64QAM	36	0	20.30	20.87	20.70		
15	64QAM	36	20	20.68	20.42	20.54	22	3
15	64QAM	36	39	21.40	20.39	19.63		
15	64QAM	75	0	20.70	20.64	20.14		
Channel				28740	28865	28990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	23.81	23.81	23.63	25	0
10	QPSK	1	25	24.04	23.89	23.48		
10	QPSK	1	49	24.07	23.61	23.38		
10	QPSK	25	0	22.77	22.81	22.84	24	1
10	QPSK	25	12	23.22	22.80	22.67		
10	QPSK	25	25	23.25	22.81	22.08		
10	QPSK	50	0	23.30	22.78	22.59	24	1
10	16QAM	1	0	23.03	22.80	22.86		
10	16QAM	1	25	23.45	23.03	22.79		
10	16QAM	1	49	23.48	22.88	22.71	23	2
10	16QAM	25	0	21.81	21.78	21.68		
10	16QAM	25	12	22.29	21.78	21.64		
10	16QAM	25	25	22.32	21.78	21.49	22	3
10	16QAM	50	0	22.37	21.78	21.60		
10	64QAM	1	0	21.04	21.75	21.28		
10	64QAM	1	25	21.82	21.20	21.78	23	2
10	64QAM	1	49	22.35	22.02	21.33		
10	64QAM	25	0	20.37	20.77	20.68		
10	64QAM	25	12	20.63	20.32	20.52	22	3
10	64QAM	25	25	21.37	20.39	19.61		
10	64QAM	50	0	20.61	20.59	20.06		
Channel				28715	28865	29015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	23.79	23.67	23.57	25	0
5	QPSK	1	12	24.08	23.84	23.43		
5	QPSK	1	24	24.10	23.55	23.39		
5	QPSK	12	0	22.82	22.79	22.70	24	1
5	QPSK	12	7	23.26	22.74	22.58		
5	QPSK	12	13	23.26	22.76	22.03		
5	QPSK	25	0	23.29	22.77	22.61	24	1
5	16QAM	1	0	23.05	22.80	22.83		
5	16QAM	1	12	23.44	23.02	22.79		
5	16QAM	1	24	23.48	22.91	22.65	23	2
5	16QAM	12	0	21.76	21.78	21.60		
5	16QAM	12	7	22.24	21.76	21.68		
5	16QAM	12	13	22.24	21.73	21.45	22	3
5	16QAM	25	0	22.32	21.80	21.56		
5	64QAM	1	0	21.47	21.80	21.28		
5	64QAM	1	12	21.80	21.17	21.71	23	2
5	64QAM	1	24	22.36	22.02	21.32		
5	64QAM	12	0	20.37	20.85	20.64		
5	64QAM	12	7	20.65	20.36	20.48	22	3
5	64QAM	12	13	21.36	20.30	19.62		
5	64QAM	25	0	20.62	20.59	20.11		
Channel				28700	28865	29020	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	23.86	23.88	23.62	25	0
3	QPSK	1	8	24.07	23.67	23.44		
3	QPSK	1	14	24.09	23.56	23.41		
3	QPSK	8	0	22.78	22.74	22.95	24	1
3	QPSK	8	4	23.23	22.84	22.73		
3	QPSK	8	7	23.27	22.76	22.08		
3	QPSK	15	0	23.28	22.89	22.60	24	1
3	16QAM	1	0	23.11	22.93	22.86		
3	16QAM	1	8	23.36	23.01	22.77		
3	16QAM	1	14	23.49	22.96	22.65	23	2
3	16QAM	8	0	21.80	21.72	21.66		
3	16QAM	8	4	22.30	21.72	21.70		
3	16QAM	8	7	22.32	21.68	21.45	22	3
3	16QAM	15	0	22.30	21.81	21.58		
3	64QAM	1	0	21.00	21.72	21.29		
3	64QAM	1	8	21.80	21.15	21.71	23	2
3	64QAM	1	14	22.34	21.98	21.40		
3	64QAM	8	0	20.46	20.87	20.64		
3	64QAM	8	4	20.64	20.36	20.49	22	3
3	64QAM	8	7	21.36	20.36	19.56		
3	64QAM	15	0	20.64	20.55	20.10		
Channel				28977	28865	29033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	849.3		
1.4	QPSK	1	0	23.85	23.88	23.60	25	0
1.4	QPSK	1	3	24.01	23.68	23.49		
1.4	QPSK	1	5	24.16	23.57	23.37		
1.4	QPSK	3	0	23.83	23.70	23.63	24	1
1.4	QPSK	3	1	24.06	23.85	23.65		
1.4	QPSK	3	3	24.11	23.61	23.33		
1.4	QPSK	6	0	23.31	22.77	22.58	24	1
1.4	16QAM	1	0	23.09	22.92	22.89		
1.4	16QAM	1	3	23.40	23.04	22.70		
1.4	16QAM	1	5	23.44	22.88	22.67	24	1
1.4	16QAM	3	0	23.06	22.82	22.81		
1.4	16QAM	3	1	23.30	22.99	22.69		
1.4	16QAM	3	3	23.39	22.80	22.65	23	2
1.4	16QAM	6	0	22.36	21.77	21.57		
1.4	64QAM	1	0	21.01	21.81	21.30		
1.4	64QAM	1	3	21.81	21.21	21.71	23	2
1.4	64QAM	1	5	22.39	22.05	21.41		
1.4	64QAM	3	0	22.32	21.72	21.55		
1.4	64QAM	3	1	21.39	21.75	21.25	22	3
1.4	64QAM	3	3	21.75	21.13	21.69		
1.4	64QAM	6	0	20.63	20.82	20.09		



Band 30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2710					
Frequency (MHz)				2310					
10	QPSK	1	0		24.34		25	0	
10	QPSK	1	25		24.22				
10	QPSK	1	49		24.23				
10	QPSK	25	0		23.38		24	1	
10	QPSK	25	12		23.23				
10	QPSK	25	25		23.29				
10	QPSK	50	0		23.15		24	1	
10	16QAM	1	0		23.52				
10	16QAM	1	25		23.36				
10	16QAM	1	49		23.53		23	2	
10	16QAM	25	0		22.25				
10	16QAM	25	12		22.40				
10	16QAM	25	25		22.36		23	2	
10	16QAM	50	0		22.40				
10	64QAM	1	0		22.07				
10	64QAM	1	25		21.61		22	3	
10	64QAM	1	49		21.86				
10	64QAM	25	0		20.67				
10	64QAM	25	12		20.72		22	3	
10	64QAM	25	25		20.83				
10	64QAM	50	0		20.69				
Channel				2765			27735		
Frequency (MHz)				2307.5			2310	2312.5	
5	QPSK	1	0	23.89	24.24	23.48	25	0	
5	QPSK	1	12	23.81	24.15	23.42			
5	QPSK	1	24	23.86	24.14	23.41			
5	QPSK	12	0	22.76	23.19	22.40	24	1	
5	QPSK	12	7	22.93	23.27	22.56			
5	QPSK	12	13	22.93	23.25	22.40			
5	QPSK	25	0	22.76	23.06	22.35	24	1	
5	16QAM	1	0	23.09	23.45	22.69			
5	16QAM	1	12	22.95	23.32	22.55			
5	16QAM	1	24	23.16	23.46	22.65	23	2	
5	16QAM	12	0	21.84	22.19	21.39			
5	16QAM	12	7	21.96	22.38	21.61			
5	16QAM	12	13	21.98	22.36	21.53	23	2	
5	16QAM	25	0	22.00	22.32	21.61			
5	64QAM	1	0	21.94	22.01	21.73			
5	64QAM	1	12	21.72	21.57	21.38	22	3	
5	64QAM	1	24	21.45	21.76	21.61			
5	64QAM	12	0	20.77	20.65	20.44			
5	64QAM	12	7	20.31	20.69	19.88	22	3	
5	64QAM	12	13	20.47	20.80	19.97			
5	64QAM	25	0	20.27	20.59	19.67			



Band 71									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				13322	13322	13322			
Frequency (MHz)				673	683	688			
20	QPSK	1	0	23.82	23.77	23.78			
20	QPSK	1	49	23.64	23.71	23.69		25	0
20	QPSK	1	99	23.53	23.61	23.62			
20	QPSK	50	0	22.73	22.86	22.77			
20	QPSK	50	24	22.66	22.85	22.75		24	1
20	QPSK	50	50	22.71	22.98	22.75			
20	QPSK	100	0	22.77	22.76	22.75			
20	16QAM	1	0	23.00	23.07	23.14			
20	16QAM	1	49	22.93	22.96	22.97		24	1
20	16QAM	1	99	22.74	22.93	22.86			
20	16QAM	50	0	21.67	21.71	21.76			
20	16QAM	50	24	21.67	21.71	21.68		23	2
20	16QAM	50	50	21.58	21.78	21.66			
20	16QAM	100	0	21.73	21.72	21.75			
20	64QAM	1	0	21.59	21.85	22.03			
20	64QAM	1	49	21.56	21.41	21.92		23	2
20	64QAM	1	99	21.41	21.81	21.32			
20	64QAM	50	0	20.27	20.68	20.29			
20	64QAM	50	24	20.67	20.39	20.88		22	3
20	64QAM	50	50	20.96	20.78	20.81			
20	64QAM	100	0	20.49	20.78	20.69			
Channel				13317	13327	13327			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	23.75	23.71	23.72			
15	QPSK	1	37	23.54	23.67	23.59		25	0
15	QPSK	1	74	23.53	23.54	23.57			
15	QPSK	36	0	22.67	22.61	22.73			
15	QPSK	36	20	22.60	22.66	22.74		24	1
15	QPSK	36	39	22.66	22.70	22.68			
15	QPSK	75	0	22.74	22.69	22.75			
15	16QAM	1	0	22.91	22.97	23.04			
15	16QAM	1	37	22.87	22.88	22.90		24	1
15	16QAM	1	74	22.84	22.91	22.75			
15	16QAM	36	0	21.67	21.64	21.74			
15	16QAM	36	20	21.65	21.61	21.68		23	2
15	16QAM	36	39	21.53	21.73	21.68			
15	16QAM	75	0	21.64	21.65	21.68			
15	64QAM	1	0	21.57	21.82	21.67			
15	64QAM	1	37	21.48	21.33	21.87		23	2
15	64QAM	1	74	21.50	21.77	21.10			
15	64QAM	36	0	20.31	20.64	20.20			
15	64QAM	36	20	20.64	20.29	20.84		22	3
15	64QAM	36	39	20.58	20.77	20.76			
15	64QAM	75	0	20.42	20.73	20.69			
Channel				13312	13322	13342			
Frequency (MHz)				688	678	693			
10	QPSK	1	0	23.80	23.70	23.71			
10	QPSK	1	25	23.55	23.64	23.60		25	0
10	QPSK	1	49	23.53	23.67	23.56			
10	QPSK	25	0	22.63	22.86	22.77			
10	QPSK	25	12	22.64	22.64	22.72		24	1
10	QPSK	25	25	22.63	22.67	22.72			
10	QPSK	50	0	22.68	22.74	22.69			
10	16QAM	1	0	22.93	22.99	23.12			
10	16QAM	1	25	22.90	22.95	22.96		24	1
10	16QAM	1	49	22.73	22.92	22.75			
10	16QAM	25	0	21.66	21.65	21.73			
10	16QAM	25	12	21.58	21.62	21.62		23	2
10	16QAM	25	25	21.48	21.72	21.59			
10	16QAM	50	0	21.71	21.68	21.66			
10	64QAM	1	0	21.51	21.82	21.99			
10	64QAM	1	25	21.63	21.41	21.83		23	2
10	64QAM	1	49	21.42	21.79	21.36			
10	64QAM	25	0	20.37	20.65	20.22			
10	64QAM	25	12	20.58	20.34	20.79		22	3
10	64QAM	25	25	20.52	20.74	20.80			
10	64QAM	50	0	20.45	20.73	20.62			
Channel				13317	13347	13347			
Frequency (MHz)				685.5	676.5	695.5			
5	QPSK	1	0	23.80	23.71	23.77			
5	QPSK	1	12	23.60	23.68	23.53		25	0
5	QPSK	1	24	23.45	23.60	23.62			
5	QPSK	12	0	22.69	22.67	22.67			
5	QPSK	12	7	22.61	22.64	22.74		24	1
5	QPSK	12	13	22.63	22.67	22.69			
5	QPSK	25	0	22.72	22.67	22.65			
5	16QAM	1	0	22.90	23.04	23.14			
5	16QAM	1	12	22.91	22.87	22.85		24	1
5	16QAM	1	24	22.67	22.88	22.84			
5	16QAM	12	0	21.66	21.67	21.66			
5	16QAM	12	7	21.62	21.62	21.65		23	2
5	16QAM	12	13	21.48	21.71	21.64			
5	16QAM	25	0	21.71	21.64	21.75			
5	64QAM	1	0	21.50	21.90	22.01			
5	64QAM	1	12	21.62	21.36	21.82		23	2
5	64QAM	1	24	21.34	21.81	21.06			
5	64QAM	12	0	20.39	20.64	20.29			
5	64QAM	12	7	20.65	20.34	20.87		22	3
5	64QAM	12	13	20.52	20.76	20.78			
5	64QAM	25	0	20.48	20.70	20.61			



Band 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20425	20525	20625			
Frequency (MHz)				825	836.5	844			
10	QPSK	1	0	21.72	21.69	21.69	22.6	0	
10	QPSK	1	25	21.68	21.64	21.63			
10	QPSK	1	49	21.67	21.69	21.61			
10	QPSK	25	0	21.70	21.67	21.61	22.6	0	
10	QPSK	25	12	21.59	21.60	21.61			
10	QPSK	25	25	21.63	21.56	21.54			
10	QPSK	50	0	21.66	21.66	21.53	22.6	0	
10	16QAM	1	0	21.62	21.60	21.64			
10	16QAM	1	25	21.63	21.62	21.59			
10	16QAM	1	49	21.57	21.67	21.51	22.6	0	
10	16QAM	25	0	21.52	21.48	21.52			
10	16QAM	25	12	21.64	21.59	21.56			
10	16QAM	25	25	21.60	21.50	21.54	22.6	0	
10	16QAM	50	0	21.63	21.65	21.46			
10	64QAM	1	0	21.69	21.65	21.60			
10	64QAM	1	25	21.66	21.64	21.56	22.6	0	
10	64QAM	1	49	21.59	21.69	21.52			
10	64QAM	25	0	21.59	21.55	21.58			
10	64QAM	25	12	21.66	21.53	21.51	22	0.6	
10	64QAM	25	25	21.54	21.54	21.53			
10	64QAM	50	0	21.61	21.60	21.43			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	21.71	21.69	21.67	22.6	0	
5	QPSK	1	12	21.60	21.57	21.61			
5	QPSK	1	24	21.67	21.59	21.60			
5	QPSK	12	0	21.50	21.47	21.58	22.6	0	
5	QPSK	12	7	21.61	21.51	21.55			
5	QPSK	12	13	21.57	21.47	21.46			
5	QPSK	25	0	21.62	21.57	21.44	22.6	0	
5	16QAM	1	0	21.54	21.59	21.56			
5	16QAM	1	12	21.54	21.52	21.44			
5	16QAM	1	24	21.52	21.62	21.41	22.6	0	
5	16QAM	12	0	21.42	21.45	21.43			
5	16QAM	12	7	21.59	21.53	21.56			
5	16QAM	12	13	21.59	21.48	21.53	22.6	0	
5	16QAM	25	0	21.60	21.55	21.46			
5	64QAM	1	0	21.64	21.65	21.60			
5	64QAM	1	12	21.64	21.54	21.51	22.6	0	
5	64QAM	1	24	21.49	21.63	21.43			
5	64QAM	12	0	21.54	21.48	21.58			
5	64QAM	12	7	21.65	21.45	21.43	22	0.6	
5	64QAM	12	13	21.53	21.44	21.51			
5	64QAM	25	0	21.51	21.55	21.38			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	21.63	21.64	21.65	22.6	0	
3	QPSK	1	8	21.62	21.62	21.60			
3	QPSK	1	14	21.62	21.68	21.59			
3	QPSK	8	0	21.58	21.53	21.57	22.6	0	
3	QPSK	8	4	21.61	21.55	21.56			
3	QPSK	8	7	21.55	21.48	21.52			
3	QPSK	15	0	21.65	21.62	21.51	22.6	0	
3	16QAM	1	0	21.61	21.51	21.64			
3	16QAM	1	8	21.56	21.54	21.53			
3	16QAM	1	14	21.52	21.64	21.41	22.6	0	
3	16QAM	8	0	21.47	21.46	21.48			
3	16QAM	8	4	21.58	21.57	21.51			
3	16QAM	8	7	21.56	21.40	21.51	22.6	0	
3	16QAM	15	0	21.59	21.59	21.46			
3	64QAM	1	0	21.68	21.61	21.50			
3	64QAM	1	8	21.59	21.57	21.46	22.6	0	
3	64QAM	1	14	21.55	21.63	21.50			
3	64QAM	8	0	21.57	21.51	21.49			
3	64QAM	8	4	21.59	21.44	21.46	22	0.6	
3	64QAM	8	7	21.44	21.44	21.46			
3	64QAM	15	0	21.54	21.52	21.40			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	21.70	21.65	21.60	22.6	0	
1.4	QPSK	1	3	21.58	21.62	21.57			
1.4	QPSK	1	5	21.66	21.61	21.51			
1.4	QPSK	3	0	21.54	21.52	21.60	22.6	0	
1.4	QPSK	3	1	21.70	21.58	21.56			
1.4	QPSK	3	3	21.62	21.53	21.48			
1.4	QPSK	6	0	21.60	21.61	21.46	22.6	0	
1.4	16QAM	1	0	21.56	21.55	21.60			
1.4	16QAM	1	3	21.55	21.60	21.49			
1.4	16QAM	1	5	21.56	21.65	21.43	22.6	0	
1.4	16QAM	3	0	21.46	21.44	21.44			
1.4	16QAM	3	1	21.55	21.51	21.48			
1.4	16QAM	3	3	21.58	21.47	21.45	22.6	0	
1.4	16QAM	6	0	21.57	21.57	21.46			
1.4	64QAM	1	0	21.62	21.62	21.54			
1.4	64QAM	1	3	21.64	21.57	21.48	22.6	0	
1.4	64QAM	1	5	21.50	21.69	21.48			
1.4	64QAM	3	0	21.56	21.47	21.55			
1.4	64QAM	3	3	21.44	21.47	21.46	22	0.6	
1.4	64QAM	6	0	21.60	21.58	21.42			



Band 5_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20425	20525	20600			
Frequency (MHz)				825	836.5	844			
10	QPSK	1	0	20.42	20.30	20.26	21.2	0	
10	QPSK	1	25	20.37	20.23	20.24			
10	QPSK	1	49	20.34	20.31	20.22			
10	QPSK	25	0	20.41	20.28	20.19	21.2	0	
10	QPSK	25	12	20.21	20.18	20.11			
10	QPSK	25	25	20.21	20.15	20.18			
10	QPSK	50	0	20.32	20.22	20.21	21.2	0	
10	16QAM	1	0	20.41	20.25	20.17			
10	16QAM	1	25	20.32	20.19	20.26			
10	16QAM	1	49	20.27	20.28	20.08	21.2	0	
10	16QAM	25	0	20.29	20.25	20.26			
10	16QAM	25	12	20.21	20.16	20.04			
10	16QAM	25	25	20.11	20.21	20.12	21.2	0	
10	16QAM	50	0	20.21	20.10	20.05			
10	64QAM	1	0	20.39	20.21	20.23			
10	64QAM	1	25	20.20	20.13	20.13	21.2	0	
10	64QAM	1	49	20.30	20.19	20.18			
10	64QAM	25	0	20.33	20.19	20.19			
10	64QAM	25	12	20.15	20.13	20.04	21.2	0	
10	64QAM	25	25	20.15	20.16	20.05			
10	64QAM	50	0	20.18	20.09	20.04			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	20.41	20.27	20.12	21.2	0	
5	QPSK	1	12	20.23	20.21	20.24			
5	QPSK	1	24	20.28	20.15	20.16			
5	QPSK	12	0	20.30	20.15	20.09	21.2	0	
5	QPSK	12	7	20.25	20.02	20.08			
5	QPSK	12	13	20.16	20.17	20.08			
5	QPSK	25	0	20.17	20.28	20.03	21.2	0	
5	16QAM	1	0	20.32	20.30	20.17			
5	16QAM	1	12	20.31	20.08	20.13			
5	16QAM	1	24	20.26	20.13	20.05	21.2	0	
5	16QAM	12	0	20.16	20.13	20.19			
5	16QAM	12	7	20.11	20.13	19.95			
5	16QAM	12	13	20.14	20.07	20.02	21.2	0	
5	16QAM	25	0	20.16	20.16	19.95			
5	64QAM	1	0	20.34	20.18	20.04			
5	64QAM	1	12	20.18	20.07	20.08	21.2	0	
5	64QAM	1	24	20.15	20.19	20.00			
5	64QAM	12	0	20.39	20.16	20.18			
5	64QAM	12	7	20.12	20.07	19.95	21.2	0	
5	64QAM	12	13	20.17	20.13	19.95			
5	64QAM	25	0	20.10	20.09	20.01			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	20.40	20.28	20.18	21.2	0	
3	QPSK	1	8	20.32	20.10	20.15			
3	QPSK	1	14	20.33	20.15	20.11			
3	QPSK	8	0	20.26	20.10	20.15	21.2	0	
3	QPSK	8	4	20.19	20.16	20.03			
3	QPSK	8	7	20.19	20.18	20.05			
3	QPSK	15	0	20.26	20.14	20.10	21.2	0	
3	16QAM	1	0	20.37	20.14	20.13			
3	16QAM	1	8	20.32	20.11	20.21			
3	16QAM	1	14	20.25	20.26	20.10	21.2	0	
3	16QAM	8	0	20.25	20.18	20.17			
3	16QAM	8	4	20.24	20.11	19.98			
3	16QAM	8	7	20.10	20.15	19.95	21.2	0	
3	16QAM	15	0	20.14	20.08	19.99			
3	64QAM	1	0	20.38	20.21	20.21			
3	64QAM	1	8	20.18	20.11	20.08	21.2	0	
3	64QAM	1	14	20.16	20.11	20.01			
3	64QAM	8	0	20.27	20.21	20.18			
3	64QAM	8	4	20.18	20.14	20.00	21.2	0	
3	64QAM	8	7	20.17	20.11	19.98			
3	64QAM	15	0	20.16	20.07	20.02			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	20.33	20.25	20.17	21.2	0	
1.4	QPSK	1	3	20.34	20.15	20.18			
1.4	QPSK	1	5	20.21	20.20	20.13			
1.4	QPSK	3	0	20.31	20.12	20.12	21.2	0	
1.4	QPSK	3	1	20.29	20.02	20.10			
1.4	QPSK	3	3	20.24	20.10	20.08			
1.4	QPSK	6	0	20.24	20.14	20.09	21.2	0	
1.4	16QAM	1	0	20.37	20.18	20.17			
1.4	16QAM	1	3	20.24	20.11	20.24			
1.4	16QAM	1	5	20.20	20.21	20.11	21.2	0	
1.4	16QAM	3	0	20.16	20.21	20.24			
1.4	16QAM	3	1	20.17	20.02	20.02			
1.4	16QAM	3	3	20.15	20.09	20.06	21.2	0	
1.4	16QAM	6	0	20.21	20.08	19.98			
1.4	64QAM	1	0	20.39	20.16	20.16			
1.4	64QAM	1	3	20.29	20.12	20.13	21.2	0	
1.4	64QAM	1	5	20.32	20.24	20.14			
1.4	64QAM	3	0	20.27	20.08	20.12			
1.4	64QAM	3	1	20.17	20.08	20.03	21.2	0	
1.4	64QAM	3	3	20.09	20.10	20.01			
1.4	64QAM	6	0	20.08	20.04	20.00			



Band 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2655	2100	2150			
Frequency (MHz)				2610	2535	2560			
20	QPSK	1	0	21.31	21.28	21.35			
20	QPSK	1	49	21.21	21.23	21.28	21.7	0	
20	QPSK	1	99	21.10	21.11	21.20			
20	QPSK	50	0	21.25	21.25	21.20			
20	QPSK	50	24	21.14	21.21	21.23	21.7	0	
20	QPSK	50	50	21.08	21.18	21.18			
20	QPSK	100	0	21.04	21.13	21.22			
20	16QAM	1	0	21.26	21.28	21.25			
20	16QAM	1	49	21.21	21.15	21.25	21.7	0	
20	16QAM	1	99	21.03	21.01	21.11			
20	16QAM	50	0	21.22	21.15	21.22			
20	16QAM	50	24	21.04	21.20	21.18	21.7	0	
20	16QAM	50	50	21.02	21.15	21.18			
20	16QAM	100	0	21.03	21.15	21.15			
20	64QAM	1	0	21.28	21.08	21.32			
20	64QAM	1	49	21.16	21.14	21.28	21.7	0	
20	64QAM	1	99	21.02	21.09	21.15			
20	64QAM	50	0	21.28	21.16	21.22			
20	64QAM	50	24	21.05	21.18	21.18	21.7	0	
20	64QAM	50	50	21.04	21.08	21.12			
20	64QAM	100	0	20.96	21.09	21.12			
Channel				20825	21100	21375			
Frequency (MHz)				20705	20535	20625			
15	QPSK	1	0	21.25	21.21	21.34			
15	QPSK	1	37	21.14	21.19	21.25	21.7	0	
15	QPSK	1	74	21.10	21.05	21.15			
15	QPSK	36	0	21.21	21.19	21.29			
15	QPSK	36	20	21.10	21.18	21.19	21.7	0	
15	QPSK	36	39	21.01	21.10	21.12			
15	QPSK	75	0	21.00	21.11	21.20			
15	16QAM	1	0	21.18	21.20	21.19			
15	16QAM	1	37	21.13	21.12	21.20	21.7	0	
15	16QAM	1	74	20.93	20.95	21.09			
15	16QAM	36	0	21.15	21.15	21.17			
15	16QAM	36	20	21.00	21.20	21.18	21.7	0	
15	16QAM	36	39	21.01	21.14	21.15			
15	16QAM	75	0	20.96	21.07	21.12			
15	64QAM	1	0	21.23	21.22	21.31			
15	64QAM	1	37	21.13	21.08	21.16	21.7	0	
15	64QAM	1	74	20.97	21.01	21.05			
15	64QAM	36	0	21.18	21.09	21.21			
15	64QAM	36	20	21.02	21.18	21.13	21.7	0	
15	64QAM	36	39	21.02	20.98	21.04			
15	64QAM	75	0	20.86	21.02	21.08			
Channel				20800	21100	21400			
Frequency (MHz)				20505	20535	20565			
10	QPSK	1	0	21.24	21.25	21.27			
10	QPSK	1	25	21.18	21.16	21.25	21.7	0	
10	QPSK	1	49	21.00	21.03	21.11			
10	QPSK	25	0	21.26	21.18	21.22			
10	QPSK	25	12	21.08	21.19	21.18	21.7	0	
10	QPSK	25	25	21.00	21.17	21.08			
10	QPSK	50	0	21.00	21.08	21.22			
10	16QAM	1	0	21.22	21.28	21.23			
10	16QAM	1	25	21.16	21.14	21.20	21.7	0	
10	16QAM	1	49	20.96	20.97	21.01			
10	16QAM	25	0	21.17	21.07	21.17			
10	16QAM	25	12	20.97	21.19	21.13	21.7	0	
10	16QAM	25	25	20.94	21.15	21.06			
10	16QAM	50	0	20.98	21.09	21.15			
10	64QAM	1	0	21.29	21.25	21.31			
10	64QAM	1	25	21.13	21.10	21.18	21.7	0	
10	64QAM	1	49	20.97	21.02	21.08			
10	64QAM	25	0	21.28	21.08	21.14			
10	64QAM	25	12	20.95	21.14	21.17	21.7	0	
10	64QAM	25	25	20.97	20.99	21.02			
10	64QAM	50	0	20.86	21.05	21.05			
Channel				20775	21100	21425			
Frequency (MHz)				20625	20535	20675			
5	QPSK	1	0	21.30	21.26	21.32			
5	QPSK	1	12	21.20	21.14	21.24	21.7	0	
5	QPSK	1	24	21.05	21.01	21.13			
5	QPSK	12	0	21.26	21.19	21.24			
5	QPSK	12	7	21.10	21.12	21.16	21.7	0	
5	QPSK	12	13	21.06	21.10	21.08			
5	QPSK	25	0	21.03	21.04	21.21			
5	16QAM	1	0	21.19	21.25	21.17			
5	16QAM	1	12	21.14	21.10	21.19	21.7	0	
5	16QAM	1	24	21.01	20.93	21.02			
5	16QAM	12	0	21.13	21.06	21.22			
5	16QAM	12	7	20.97	21.20	21.09	21.7	0	
5	16QAM	12	13	20.93	21.14	21.13			
5	16QAM	25	0	21.03	21.05	21.06			
5	64QAM	1	0	21.18	21.20	21.24			
5	64QAM	1	12	21.16	21.08	21.20	21.7	0	
5	64QAM	1	24	20.99	21.00	21.05			
5	64QAM	12	0	21.27	21.07	21.18			
5	64QAM	12	7	20.98	21.10	21.13	21.7	0	
5	64QAM	12	13	20.99	21.08	21.04			
5	64QAM	25	0	20.96	21.01	21.12			



Band 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23059	23095	23150			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	19.70	19.60	19.59			
10	QPSK	1	25	19.68	19.55	19.57	20.7	0	
10	QPSK	1	49	19.63	19.52	19.51			
10	QPSK	25	0	19.66	19.58	19.56			
10	QPSK	25	12	19.58	19.49	19.52	20.7	0	
10	QPSK	25	25	19.62	19.62	19.51			
10	QPSK	50	0	19.58	19.47	19.42			
10	16QAM	1	0	19.66	19.54	19.59			
10	16QAM	1	25	19.66	19.54	19.51	20.7	0	
10	16QAM	1	49	19.62	19.50	19.42			
10	16QAM	25	0	19.64	19.58	19.54			
10	16QAM	25	12	19.55	19.44	19.49	20.7	0	
10	16QAM	25	25	19.52	19.43	19.43			
10	16QAM	50	0	19.58	19.46	19.33			
10	64QAM	1	0	19.60	19.50	19.49			
10	64QAM	1	25	19.67	19.54	19.50	20.7	0	
10	64QAM	1	49	19.61	19.42	19.45			
10	64QAM	25	0	19.64	19.50	19.47			
10	64QAM	25	12	19.51	19.48	19.43	20.7	0	
10	64QAM	25	25	19.60	19.51	19.48			
10	64QAM	50	0	19.51	19.38	19.32			
Channel				23055	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	19.60	19.53	19.58			
5	QPSK	1	12	19.68	19.48	19.53	20.7	0	
5	QPSK	1	24	19.60	19.50	19.50			
5	QPSK	12	0	19.60	19.52	19.55			
5	QPSK	12	7	19.54	19.43	19.50	20.7	0	
5	QPSK	12	13	19.54	19.48	19.49			
5	QPSK	25	0	19.55	19.39	19.40			
5	16QAM	1	0	19.63	19.44	19.50			
5	16QAM	1	12	19.64	19.50	19.51	20.7	0	
5	16QAM	1	24	19.52	19.43	19.42			
5	16QAM	12	0	19.61	19.48	19.52			
5	16QAM	12	7	19.48	19.35	19.45	20.7	0	
5	16QAM	12	13	19.48	19.37	19.40			
5	16QAM	25	0	19.48	19.45	19.31			
5	64QAM	1	0	19.60	19.41	19.39			
5	64QAM	1	12	19.67	19.53	19.40	20.7	0	
5	64QAM	1	24	19.61	19.41	19.44			
5	64QAM	12	0	19.63	19.45	19.47			
5	64QAM	12	7	19.41	19.42	19.36	20.7	0	
5	64QAM	12	13	19.54	19.47	19.38			
5	64QAM	25	0	19.46	19.34	19.22			
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	19.64	19.58	19.56			
3	QPSK	1	8	19.65	19.45	19.50	20.7	0	
3	QPSK	1	14	19.60	19.52	19.41			
3	QPSK	8	0	19.64	19.52	19.49			
3	QPSK	8	4	19.54	19.43	19.52	20.7	0	
3	QPSK	8	7	19.54	19.48	19.47			
3	QPSK	15	0	19.49	19.44	19.34			
3	16QAM	1	0	19.60	19.44	19.58			
3	16QAM	1	8	19.60	19.49	19.51	20.7	0	
3	16QAM	1	14	19.59	19.47	19.40			
3	16QAM	8	0	19.60	19.48	19.49			
3	16QAM	8	4	19.48	19.43	19.47	20.7	0	
3	16QAM	8	7	19.48	19.38	19.36			
3	16QAM	15	0	19.56	19.37	19.31			
3	64QAM	1	0	19.62	19.44	19.40			
3	64QAM	1	8	19.67	19.49	19.42	20.7	0	
3	64QAM	1	14	19.59	19.33	19.39			
3	64QAM	8	0	19.61	19.41	19.38			
3	64QAM	8	4	19.46	19.41	19.41	20.7	0	
3	64QAM	8	7	19.53	19.50	19.42			
3	64QAM	15	0	19.43	19.28	19.23			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	19.61	19.50	19.51			
1.4	QPSK	1	3	19.67	19.55	19.49	20.7	0	
1.4	QPSK	1	5	19.57	19.43	19.44			
1.4	QPSK	3	0	19.64	19.54	19.55			
1.4	QPSK	3	1	19.49	19.39	19.47	20.7	0	
1.4	QPSK	3	3	19.61	19.48	19.43			
1.4	QPSK	6	0	19.48	19.44	19.38	20.7	0	
1.4	16QAM	1	0	19.63	19.47	19.57			
1.4	16QAM	1	3	19.64	19.49	19.48	20.7	0	
1.4	16QAM	1	5	19.53	19.45	19.38			
1.4	16QAM	3	0	19.58	19.56	19.51			
1.4	16QAM	3	1	19.54	19.44	19.43	20.7	0	
1.4	16QAM	3	3	19.43	19.33	19.42			
1.4	16QAM	6	0	19.52	19.38	19.25	20.7	0	
1.4	64QAM	1	0	19.67	19.40	19.45			
1.4	64QAM	1	3	19.61	19.46	19.41	20.7	0	
1.4	64QAM	1	5	19.52	19.41	19.38			
1.4	64QAM	3	0	19.58	19.47	19.45			
1.4	64QAM	3	1	19.42	19.45	19.41	20.7	0	
1.4	64QAM	3	3	19.53	19.51	19.37			
1.4	64QAM	6	0	19.49	19.32	19.31	20.7	0	



Band 12_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23030	23055	23150			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	19.22	19.28	19.25	19.8	0	
10	QPSK	1	25	19.13	19.19	19.24			
10	QPSK	1	49	19.14	19.24	19.19			
10	QPSK	25	0	19.16	19.23	19.20			
10	QPSK	25	12	19.04	19.10	19.14			
10	QPSK	25	25	19.04	19.17	19.13			
10	QPSK	50	0	19.11	19.19	19.17			
10	16QAM	1	0	19.18	19.23	19.20			
10	16QAM	1	25	19.06	19.13	19.24			
10	16QAM	1	49	19.07	19.22	19.12			
10	16QAM	25	0	19.07	19.17	19.24			
10	16QAM	25	12	18.99	19.09	19.06			
10	16QAM	25	25	18.95	19.13	19.12			
10	16QAM	50	0	18.99	19.09	19.06			
10	64QAM	1	0	19.19	19.23	19.20			
10	64QAM	1	25	19.04	19.13	19.19			
10	64QAM	1	49	19.07	19.20	19.15			
10	64QAM	25	0	19.13	19.15	19.24			
10	64QAM	25	12	18.97	19.09	19.11			
10	64QAM	25	25	18.95	19.16	19.05			
10	64QAM	50	0	19.00	19.10	19.06			
Channel				23035	23055	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	19.16	19.26	19.19	19.8	0	
5	QPSK	1	12	19.04	19.13	19.24			
5	QPSK	1	24	19.11	19.15	19.16			
5	QPSK	12	0	19.10	19.08	19.14			
5	QPSK	12	7	19.00	19.03	19.11			
5	QPSK	12	13	19.00	19.12	19.10			
5	QPSK	25	0	18.97	19.18	19.04			
5	16QAM	1	0	19.13	19.22	19.16			
5	16QAM	1	12	19.05	19.09	19.20			
5	16QAM	1	24	19.00	19.12	19.03			
5	16QAM	12	0	18.98	19.07	19.17			
5	16QAM	12	7	18.91	19.05	18.98			
5	16QAM	12	13	18.91	19.04	19.04			
5	16QAM	25	0	18.96	19.09	19.00			
5	64QAM	1	0	19.12	19.15	19.11			
5	64QAM	1	12	18.96	19.06	19.10			
5	64QAM	1	24	18.97	19.19	19.06			
5	64QAM	12	0	19.13	19.15	19.23			
5	64QAM	12	7	18.89	19.06	19.01			
5	64QAM	12	13	18.94	19.10	19.05			
5	64QAM	25	0	18.92	19.06	19.03			
Channel				23025	23055	23155			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	19.19	19.25	19.25	19.8	0	
3	QPSK	1	8	19.07	19.12	19.16			
3	QPSK	1	14	19.09	19.17	19.13			
3	QPSK	8	0	19.10	19.15	19.19			
3	QPSK	8	4	19.01	19.10	19.09			
3	QPSK	8	7	19.03	19.13	19.10			
3	QPSK	15	0	19.06	19.15	19.09			
3	16QAM	1	0	19.12	19.13	19.19			
3	16QAM	1	8	19.07	19.12	19.20			
3	16QAM	1	14	19.02	19.18	19.11			
3	16QAM	8	0	18.99	19.12	19.17			
3	16QAM	8	4	18.98	19.03	19.05			
3	16QAM	8	7	18.94	19.08	19.02			
3	16QAM	15	0	18.91	19.05	18.99			
3	64QAM	1	0	19.12	19.21	19.19			
3	64QAM	1	8	19.00	19.11	19.10			
3	64QAM	1	14	18.97	19.10	19.07			
3	64QAM	8	0	19.05	19.14	19.16			
3	64QAM	8	4	18.93	19.07	19.02			
3	64QAM	8	7	18.95	19.10	18.97			
3	64QAM	15	0	18.92	19.06	18.99			
Channel				23017	23055	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	19.14	19.19	19.15	19.8	0	
1.4	QPSK	1	3	19.10	19.13	19.24			
1.4	QPSK	1	5	19.09	19.15	19.15			
1.4	QPSK	3	0	19.05	19.11	19.21			
1.4	QPSK	3	1	18.94	19.08	19.12			
1.4	QPSK	3	3	18.97	19.07	19.05			
1.4	QPSK	6	0	19.02	19.18	19.12			
1.4	16QAM	1	0	19.17	19.20	19.11			
1.4	16QAM	1	3	19.05	19.12	19.14			
1.4	16QAM	1	5	19.04	19.12	19.12			
1.4	16QAM	3	0	19.06	19.14	19.19			
1.4	16QAM	3	1	18.91	19.07	18.98			
1.4	16QAM	3	3	18.85	19.11	19.10			
1.4	16QAM	6	0	18.95	19.06	19.01			
1.4	64QAM	1	0	19.11	19.17	19.16			
1.4	64QAM	1	3	19.01	19.10	19.17			
1.4	64QAM	1	5	18.98	19.12	19.15			
1.4	64QAM	3	0	19.03	19.12	19.18			
1.4	64QAM	3	1	18.93	19.05	19.11			
1.4	64QAM	3	3	18.95	19.06	18.98			
1.4	64QAM	6	0	18.95	19.05	18.98			



Band 13								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23250				
Frequency (MHz)				782				
10	QPSK	1	0		18.80			
10	QPSK	1	25		18.75			
10	QPSK	1	49		18.67		19.7	0
10	QPSK	25	0		18.73			
10	QPSK	25	12		18.70			
10	QPSK	25	25		18.69		19.7	0
10	QPSK	50	0		18.64			
10	16QAM	1	0		18.74			
10	16QAM	1	25		18.68		19.7	0
10	16QAM	1	49		18.62			
10	16QAM	25	0		18.74			
10	16QAM	25	12		18.73			
10	16QAM	25	25		18.61		19.7	0
10	16QAM	50	0		18.67			
10	64QAM	1	0		18.65			
10	64QAM	1	25		18.51		19.7	0
10	64QAM	1	49		18.64			
10	64QAM	25	0		18.71			
10	64QAM	25	12		18.67		19.7	0
10	64QAM	25	25		18.59			
10	64QAM	50	0		18.50			
Channel				23205				
Frequency (MHz)				779.5				
5	QPSK	1	0	18.74	18.79	18.72		
5	QPSK	1	12	18.75	18.68	18.71		
5	QPSK	1	24	18.66	18.59	18.59	19.7	0
5	QPSK	12	0	18.59	18.69	18.67		
5	QPSK	12	7	18.65	18.69	18.60		
5	QPSK	12	13	18.53	18.49	18.58	19.7	0
5	QPSK	25	0	18.60	18.58	18.61		
5	16QAM	1	0	18.72	18.70	18.64		
5	16QAM	1	12	18.61	18.58	18.56	19.7	0
5	16QAM	1	24	18.62	18.54	18.52		
5	16QAM	12	0	18.71	18.72	18.69		
5	16QAM	12	7	18.63	18.65	18.70		
5	16QAM	12	13	18.58	18.59	18.57	19.7	0
5	16QAM	25	0	18.58	18.57	18.64		
5	64QAM	1	0	18.62	18.61	18.55		
5	64QAM	1	12	18.48	18.45	18.50	19.7	0
5	64QAM	1	24	18.59	18.64	18.58		
5	64QAM	12	0	18.71	18.65	18.67		
5	64QAM	12	7	18.55	18.49	18.52	19.7	0
5	64QAM	12	13	18.50	18.54	18.58		
5	64QAM	25	0	18.40	18.44	18.50		



Band 13_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23250				
Frequency (MHz)				782				
10	QPSK	1	0		19.21			
10	QPSK	1	25		19.16		19.8	0
10	QPSK	1	49		19.08			
10	QPSK	25	0		19.18			
10	QPSK	25	12		19.11		19.8	0
10	QPSK	25	25		19.00			
10	QPSK	50	0		19.18			
10	16QAM	1	0		19.15			
10	16QAM	1	25		19.07		19.8	0
10	16QAM	1	49		19.03			
10	16QAM	25	0		19.15			
10	16QAM	25	12		19.14		19.8	0
10	16QAM	25	25		19.02			
10	16QAM	50	0		19.08			
10	64QAM	1	0		19.06			
10	64QAM	1	25		18.92		19.8	0
10	64QAM	1	49		19.05			
10	64QAM	25	0		19.12			
10	64QAM	25	12		18.98		19.8	0
10	64QAM	25	25		19.00			
10	64QAM	50	0		18.91			
Channel				23205				
Frequency (MHz)				779.5				
5	QPSK	1	0	19.15	19.20	19.13		
5	QPSK	1	12	19.16	19.09	19.12	19.8	0
5	QPSK	1	24	19.07	19.00	19.00		
5	QPSK	12	0	19.00	19.10	19.05		
5	QPSK	12	7	19.06	19.10	19.01	19.8	0
5	QPSK	12	13	18.94	18.90	18.99		
5	QPSK	25	0	19.01	18.99	19.02		
5	16QAM	1	0	19.13	19.11	19.05		
5	16QAM	1	12	19.02	18.99	18.97	19.8	0
5	16QAM	1	24	19.03	18.95	18.93		
5	16QAM	12	0	19.12	19.13	19.10		
5	16QAM	12	7	19.04	19.06	19.11	19.8	0
5	16QAM	12	13	18.99	19.00	18.98		
5	16QAM	25	0	18.99	18.98	19.05		
5	64QAM	1	0	19.03	19.02	18.95		
5	64QAM	1	12	18.89	18.86	18.91	19.8	0
5	64QAM	1	24	19.00	19.05	18.97		
5	64QAM	12	0	19.12	19.06	19.08		
5	64QAM	12	7	18.96	18.90	18.93	19.8	0
5	64QAM	12	13	18.91	18.95	18.99		
5	64QAM	25	0	18.81	18.85	18.91		



Band 14								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23350				
Frequency (MHz)				793				
10	QPSK	1	0		19.13			
10	QPSK	1	25		19.06		19.9	0
10	QPSK	1	49		19.09			
10	QPSK	25	0		19.05			
10	QPSK	25	12		19.03		19.9	0
10	QPSK	25	25		18.99			
10	QPSK	50	0		19.01			
10	16QAM	1	0		19.10			
10	16QAM	1	25		18.95		19.9	0
10	16QAM	1	49		19.02			
10	16QAM	25	0		19.03			
10	16QAM	25	12		18.97		19.9	0
10	16QAM	25	25		18.99			
10	16QAM	50	0		18.99			
10	64QAM	1	0		18.96			
10	64QAM	1	25		18.89		19.9	0
10	64QAM	1	49		19.05			
10	64QAM	25	0		19.10		19.9	0
10	64QAM	25	12		18.98			
10	64QAM	25	25		19.00			
10	64QAM	50	0		19.03			
Channel				23350				
Frequency (MHz)				790.5			23350	
Channel				793			23350	
Channel				795.5				
5	QPSK	1	0	19.05	19.03	19.03		
5	QPSK	1	12	19.00	19.01	19.06	19.9	0
5	QPSK	1	24	19.05	19.08	19.01		
5	QPSK	12	0	18.95	18.99	19.00		
5	QPSK	12	7	18.99	18.97	18.96	19.9	0
5	QPSK	12	13	18.98	18.94	18.89		
5	QPSK	25	0	19.04	19.08	19.04		
5	16QAM	1	0	19.00	19.02	19.00		
5	16QAM	1	12	18.99	18.91	18.91	19.9	0
5	16QAM	1	24	18.95	18.92	18.93		
5	16QAM	12	0	19.03	19.00	18.93		
5	16QAM	12	7	18.94	18.67	18.94	19.9	0
5	16QAM	12	13	18.97	18.96	18.90		
5	16QAM	25	0	18.91	18.90	18.96		
5	64QAM	1	0	18.92	18.91	18.91		
5	64QAM	1	12	18.89	18.81	18.86	19.9	0
5	64QAM	1	24	18.95	18.98	19.03		
5	64QAM	12	0	19.08	19.02	19.06		
5	64QAM	12	7	18.90	18.93	18.88	19.9	0
5	64QAM	12	13	18.96	18.99	18.89		
5	64QAM	25	0	18.89	18.98	19.03		



Band 14_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23330					
Frequency (MHz)				793					
10	QPSK	1	0		19.21				
10	QPSK	1	25		19.14		20	0	
10	QPSK	1	49		19.17				
10	QPSK	25	0		19.15				
10	QPSK	25	12		19.11		20	0	
10	QPSK	25	25		19.07				
10	QPSK	50	0		19.10				
10	16QAM	1	0		19.18				
10	16QAM	1	25		19.07		20	0	
10	16QAM	1	49		19.10				
10	16QAM	25	0		19.11				
10	16QAM	25	12		19.05		20	0	
10	16QAM	25	25		19.07				
10	16QAM	50	0		19.07				
10	64QAM	1	0		19.04				
10	64QAM	1	25		18.97		20	0	
10	64QAM	1	49		19.13				
10	64QAM	25	0		19.18				
10	64QAM	25	12		19.08		20	0	
10	64QAM	25	25		19.08				
10	64QAM	50	0		19.11				
Channel				23305					
Frequency (MHz)				790.5			23330	23305	
5	QPSK	1	0	19.13	19.11	19.11			
5	QPSK	1	12	19.08	19.09	19.14	20	0	
5	QPSK	1	24	19.13	19.16	19.09			
5	QPSK	12	0	19.07	19.07	19.05			
5	QPSK	12	7	19.07	19.05	19.04	20	0	
5	QPSK	12	13	19.06	19.02	18.97			
5	QPSK	25	0	19.12	19.18	19.12			
5	16QAM	1	0	19.08	19.10	19.08	20	0	
5	16QAM	1	12	19.07	18.99	18.99			
5	16QAM	1	24	19.03	19.00	19.01			
5	16QAM	12	0	19.11	19.08	19.01	20	0	
5	16QAM	12	7	19.02	18.95	18.92			
5	16QAM	12	13	19.05	19.04	18.98			
5	16QAM	25	0	18.99	18.98	19.04			
5	64QAM	1	0	19.00	18.99	18.95	20	0	
5	64QAM	1	12	18.96	18.89	18.94			
5	64QAM	1	24	19.03	19.06	19.11			
5	64QAM	12	0	19.11	19.10	19.14	20	0	
5	64QAM	12	7	18.98	19.01	18.95			
5	64QAM	12	13	19.04	19.07	19.07			
5	64QAM	25	0	19.07	19.06	19.11			



Band 17								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23790	23790	23890		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	19.83	19.48	19.62	20.7	0
10	QPSK	1	25	19.62	19.47	19.53		
10	QPSK	1	49	19.56	19.40	19.60		
10	QPSK	25	0	19.57	19.39	19.55	20.7	0
10	QPSK	25	12	19.53	19.40	19.43		
10	QPSK	25	25	19.46	19.30	19.58		
10	QPSK	50	0	19.55	19.34	19.50	20.7	0
10	16QAM	1	0	19.62	19.48	19.53		
10	16QAM	1	25	19.58	19.42	19.46		
10	16QAM	1	49	19.46	19.38	19.54	20.7	0
10	16QAM	25	0	19.47	19.35	19.48		
10	16QAM	25	12	19.49	19.36	19.36		
10	16QAM	25	25	19.42	19.29	19.48	20.7	0
10	16QAM	50	0	19.45	19.31	19.46		
10	64QAM	1	0	19.53	19.43	19.57		
10	64QAM	1	25	19.52	19.46	19.43	20.7	0
10	64QAM	1	49	19.50	19.39	19.59		
10	64QAM	25	0	19.48	19.36	19.48		
10	64QAM	25	12	19.47	19.31	19.37	20.7	0
10	64QAM	25	25	19.36	19.23	19.53		
10	64QAM	50	0	19.55	19.30	19.46		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	19.55	19.47	19.54	20.7	0
5	QPSK	1	12	19.57	19.46	19.44		
5	QPSK	1	24	19.46	19.36	19.54		
5	QPSK	12	0	19.44	19.29	19.54	20.7	0
5	QPSK	12	7	19.53	19.35	19.35		
5	QPSK	12	13	19.36	19.21	19.48		
5	QPSK	25	0	19.48	19.32	19.42	20.7	0
5	16QAM	1	0	19.59	19.45	19.46		
5	16QAM	1	12	19.55	19.42	19.41		
5	16QAM	1	24	19.36	19.29	19.45	20.7	0
5	16QAM	12	0	19.42	19.31	19.46		
5	16QAM	12	7	19.49	19.29	19.37		
5	16QAM	12	13	19.42	19.25	19.42	20.7	0
5	16QAM	25	0	19.45	19.29	19.37		
5	64QAM	1	0	19.43	19.41	19.57		
5	64QAM	1	12	19.49	19.40	19.36	20.7	0
5	64QAM	1	24	19.46	19.36	19.49		
5	64QAM	12	0	19.38	19.35	19.41		
5	64QAM	12	7	19.47	19.31	19.28	20.7	0
5	64QAM	12	13	19.31	19.14	19.48		
5	64QAM	25	0	19.53	19.28	19.40		



Band 17_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23790	23790	23890		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	19.40	19.28	19.33		
10	QPSK	1	25	19.34	19.27	19.31	19.5	0
10	QPSK	1	49	19.29	19.20	19.38		
10	QPSK	25	0	19.32	19.28	19.33		
10	QPSK	25	12	19.31	19.20	19.13	19.5	0
10	QPSK	25	25	19.19	19.10	19.29		
10	QPSK	50	0	19.33	19.28	19.27		
10	16QAM	1	0	19.32	19.28	19.25		
10	16QAM	1	25	19.32	19.22	19.22	19.5	0
10	16QAM	1	49	19.19	19.18	19.26		
10	16QAM	25	0	19.18	19.15	19.22		
10	16QAM	25	12	19.27	19.16	19.15	19.5	0
10	16QAM	25	25	19.22	19.09	19.21		
10	16QAM	50	0	19.20	19.11	19.23		
10	64QAM	1	0	19.32	19.23	19.37		
10	64QAM	1	25	19.23	19.28	19.14	19.5	0
10	64QAM	1	49	19.27	19.19	19.38		
10	64QAM	25	0	19.22	19.16	19.25		
10	64QAM	25	12	19.28	19.11	19.08	19.5	0
10	64QAM	25	25	19.18	19.03	19.27		
10	64QAM	50	0	19.32	19.10	19.20		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	19.29	19.27	19.34		
5	QPSK	1	12	19.27	19.28	19.24	19.5	0
5	QPSK	1	24	19.24	19.16	19.34		
5	QPSK	12	0	19.19	19.09	19.34		
5	QPSK	12	7	19.23	19.15	19.15	19.5	0
5	QPSK	12	13	19.10	19.01	19.28		
5	QPSK	25	0	19.23	19.12	19.22		
5	16QAM	1	0	19.30	19.25	19.26		
5	16QAM	1	12	19.29	19.22	19.21	19.5	0
5	16QAM	1	24	19.14	19.09	19.25		
5	16QAM	12	0	19.15	19.11	19.26		
5	16QAM	12	7	19.26	19.09	19.17	19.5	0
5	16QAM	12	13	19.22	19.05	19.22		
5	16QAM	25	0	19.25	19.09	19.17		
5	64QAM	1	0	19.15	19.21	19.37		
5	64QAM	1	12	19.29	19.20	19.16	19.5	0
5	64QAM	1	24	19.20	19.16	19.29		
5	64QAM	12	0	19.17	19.15	19.21		
5	64QAM	12	7	19.17	19.11	19.08	19.5	0
5	64QAM	12	13	19.08	18.94	19.28		
5	64QAM	25	0	19.29	19.09	19.20		



Band 26								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26740	26895	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.05	21.92	22.00	22.6	0
15	QPSK	1	37	22.04	21.87	21.99		
15	QPSK	1	74	21.97	21.89	21.95		
15	QPSK	36	0	21.99	21.91	21.87		
15	QPSK	36	20	21.92	21.80	21.97		
15	QPSK	36	39	21.96	21.86	21.93		
15	QPSK	75	0	21.97	21.90	21.94	22.6	0
15	16QAM	1	0	21.96	21.87	21.95		
15	16QAM	1	37	22.02	21.82	21.99		
15	16QAM	1	74	21.95	21.81	21.85		
15	16QAM	36	0	21.85	21.74	21.79		
15	16QAM	36	20	21.95	21.83	21.97		
15	16QAM	36	39	21.88	21.79	21.83	22.6	0
15	16QAM	75	0	21.88	21.78	21.87		
15	64QAM	1	0	22.01	21.86	21.95		
15	64QAM	1	37	21.99	21.83	21.94		
15	64QAM	1	74	21.87	21.81	21.84		
15	64QAM	36	0	21.84	21.76	21.79		
15	64QAM	36	20	21.89	21.88	21.96	22	0.6
15	64QAM	36	39	21.96	21.84	21.88		
15	64QAM	75	0	21.92	21.72	21.79		
Channel				26740	26895	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	21.97	21.90	21.93	22.6	0
10	QPSK	1	25	21.98	21.81	21.92		
10	QPSK	1	49	21.93	21.80	21.92		
10	QPSK	25	0	21.84	21.70	21.81		
10	QPSK	25	12	21.93	21.83	21.87		
10	QPSK	25	25	21.92	21.81	21.88		
10	QPSK	50	0	21.94	21.83	21.95	22.6	0
10	16QAM	1	0	21.90	21.82	21.85		
10	16QAM	1	25	22.01	21.77	21.85		
10	16QAM	1	49	21.94	21.73	21.83		
10	16QAM	25	0	21.80	21.65	21.79		
10	16QAM	25	12	21.87	21.73	21.83		
10	16QAM	25	25	21.82	21.76	21.82	22.6	0
10	16QAM	50	0	21.88	21.76	21.78		
10	64QAM	1	0	22.00	21.85	21.89		
10	64QAM	1	25	21.90	21.73	21.84		
10	64QAM	1	49	21.79	21.79	21.87		
10	64QAM	25	0	21.75	21.72	21.75		
10	64QAM	25	12	21.83	21.81	21.95	22	0.6
10	64QAM	25	25	21.89	21.81	21.82		
10	64QAM	50	0	21.87	21.70	21.79		
Channel				26715	26895	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.01	21.88	21.99	22.6	0
5	QPSK	1	12	21.94	21.84	21.91		
5	QPSK	1	24	21.92	21.83	21.87		
5	QPSK	12	0	21.86	21.71	21.82		
5	QPSK	12	7	21.93	21.87	21.87		
5	QPSK	12	13	21.94	21.82	21.88		
5	QPSK	25	0	21.95	21.90	21.92	22.6	0
5	16QAM	1	0	21.91	21.87	21.86		
5	16QAM	1	12	21.96	21.82	21.85		
5	16QAM	1	24	21.89	21.74	21.76		
5	16QAM	12	0	21.75	21.65	21.73		
5	16QAM	12	7	21.89	21.80	21.96		
5	16QAM	12	13	21.86	21.77	21.76	22.6	0
5	16QAM	25	0	21.84	21.72	21.83		
5	64QAM	1	0	21.97	21.85	21.94		
5	64QAM	1	12	21.98	21.74	21.94		
5	64QAM	1	24	21.84	21.80	21.87		
5	64QAM	12	0	21.78	21.76	21.73		
5	64QAM	12	7	21.81	21.79	21.95	22	0.6
5	64QAM	12	13	21.86	21.83	21.82		
5	64QAM	25	0	21.82	21.69	21.78		
Channel				26705	26895	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.01	21.87	21.97	22.6	0
3	QPSK	1	8	22.00	21.79	21.99		
3	QPSK	1	14	21.95	21.84	21.93		
3	QPSK	8	0	21.92	21.73	21.84		
3	QPSK	8	4	21.97	21.81	21.97		
3	QPSK	8	7	21.89	21.86	21.91		
3	QPSK	15	0	21.90	21.86	21.97	22.6	0
3	16QAM	1	0	21.91	21.79	21.94		
3	16QAM	1	8	21.94	21.79	21.84		
3	16QAM	1	14	21.89	21.81	21.76		
3	16QAM	8	0	21.85	21.73	21.76		
3	16QAM	8	4	21.88	21.73	21.88		
3	16QAM	8	7	21.80	21.72	21.73	22.6	0
3	16QAM	15	0	21.80	21.75	21.84		
3	64QAM	1	0	22.00	21.82	21.88		
3	64QAM	1	8	21.94	21.74	21.85		
3	64QAM	1	14	21.78	21.75	21.92		
3	64QAM	8	0	21.77	21.70	21.72		
3	64QAM	8	4	21.79	21.83	21.95	22	0.6
3	64QAM	8	7	21.89	21.74	21.79		
3	64QAM	15	0	21.89	21.65	21.75		
Channel				26897	26895	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.01	21.88	21.94	22.6	0
1.4	QPSK	1	3	22.04	21.79	21.92		
1.4	QPSK	1	5	21.89	21.87	21.90		
1.4	QPSK	3	0	21.83	21.70	21.84		
1.4	QPSK	3	1	21.91	21.86	21.88		
1.4	QPSK	3	3	21.92	21.77	21.90		
1.4	QPSK	6	0	21.95	21.88	21.97	22.6	0
1.4	16QAM	1	0	21.87	21.84	21.90		
1.4	16QAM	1	3	22.02	21.73	21.83		
1.4	16QAM	1	5	21.90	21.71	21.80		
1.4	16QAM	3	0	21.77	21.71	21.72		
1.4	16QAM	3	1	21.87	21.75	21.97		
1.4	16QAM	3	3	21.82	21.75	21.80	22.6	0
1.4	16QAM	6	0	21.83	21.75	21.79		
1.4	64QAM	1	0	22.01	21.83	21.87		
1.4	64QAM	1	3	21.93	21.79	21.88		
1.4	64QAM	1	5	21.83	21.76	21.91		
1.4	64QAM	3	0	21.79	21.67	21.79		
1.4	64QAM	3	1	21.83	21.80	21.94	22	0.6
1.4	64QAM	3	3	21.95	21.79	21.80		
1.4	64QAM	6	0	21.82	21.62	21.71		



Band 26 for_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26755	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	20.48	20.36	20.28	21.2	0
15	QPSK	1	37	20.39	20.27	20.27		
15	QPSK	1	74	20.40	20.32	20.22		
15	QPSK	36	0	20.41	20.30	20.24		
15	QPSK	36	20	20.30	20.18	20.17	21.2	0
15	QPSK	36	39	20.30	20.25	20.18		
15	QPSK	75	0	20.36	20.25	20.22		
15	16QAM	1	0	20.44	20.31	20.23		
15	16QAM	1	37	20.34	20.21	20.27	21.2	0
15	16QAM	1	74	20.33	20.30	20.15		
15	16QAM	36	0	20.33	20.25	20.27		
15	16QAM	36	20	20.25	20.17	20.09		
15	16QAM	36	39	20.21	20.21	20.15	21.2	0
15	16QAM	75	0	20.25	20.17	20.09		
15	64QAM	1	0	20.45	20.31	20.23		
15	64QAM	1	37	20.30	20.21	20.22		
15	64QAM	1	74	20.33	20.28	20.18	21.2	0
15	64QAM	36	0	20.39	20.23	20.27		
15	64QAM	36	20	20.23	20.17	20.14		
15	64QAM	36	39	20.21	20.24	20.08		
15	64QAM	75	0	20.28	20.18	20.09		
Channel				26740	26865	26960	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	20.42	20.36	20.22	21.2	0
10	QPSK	1	25	20.30	20.21	20.27		
10	QPSK	1	49	20.37	20.23	20.21		
10	QPSK	25	0	20.36	20.18	20.17		
10	QPSK	25	12	20.26	20.11	20.14	21.2	0
10	QPSK	25	25	20.26	20.20	20.13		
10	QPSK	50	0	20.23	20.28	20.07		
10	16QAM	1	0	20.39	20.30	20.19		
10	16QAM	1	25	20.31	20.17	20.23	21.2	0
10	16QAM	1	49	20.26	20.20	20.08		
10	16QAM	25	0	20.24	20.15	20.20		
10	16QAM	25	12	20.17	20.13	20.01		
10	16QAM	25	25	20.17	20.12	20.07	21.2	0
10	16QAM	50	0	20.24	20.17	20.03		
10	64QAM	1	0	20.38	20.23	20.14		
10	64QAM	1	25	20.22	20.14	20.13		
10	64QAM	1	49	20.23	20.27	20.09	21.2	0
10	64QAM	25	0	20.39	20.23	20.28		
10	64QAM	25	12	20.15	20.14	20.04		
10	64QAM	25	25	20.20	20.18	20.06		
10	64QAM	50	0	20.18	20.14	20.06		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	20.45	20.35	20.28	21.2	0
5	QPSK	1	12	20.33	20.20	20.19		
5	QPSK	1	24	20.35	20.25	20.16		
5	QPSK	12	0	20.36	20.23	20.22		
5	QPSK	12	7	20.27	20.18	20.12	21.2	0
5	QPSK	12	13	20.29	20.21	20.13		
5	QPSK	25	0	20.32	20.23	20.12		
5	16QAM	1	0	20.38	20.21	20.22		
5	16QAM	1	12	20.33	20.20	20.23	21.2	0
5	16QAM	1	24	20.28	20.28	20.14		
5	16QAM	12	0	20.25	20.20	20.20		
5	16QAM	12	7	20.24	20.11	20.08		
5	16QAM	12	13	20.20	20.16	20.05	21.2	0
5	16QAM	25	0	20.17	20.15	20.02		
5	64QAM	1	0	20.43	20.28	20.22		
5	64QAM	1	12	20.26	20.19	20.13		
5	64QAM	1	24	20.23	20.18	20.10	21.2	0
5	64QAM	12	0	20.31	20.22	20.19		
5	64QAM	12	7	20.19	20.15	20.05		
5	64QAM	12	13	20.21	20.16	20.06		
5	64QAM	25	0	20.18	20.14	20.02		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	20.41	20.30	20.27	21.2	0
3	QPSK	1	8	20.35	20.24	20.25		
3	QPSK	1	14	20.30	20.22	20.15		
3	QPSK	8	0	20.37	20.18	20.20		
3	QPSK	8	4	20.29	20.08	20.11	21.2	0
3	QPSK	8	7	20.27	20.18	20.09		
3	QPSK	15	0	20.31	20.17	20.15		
3	16QAM	1	0	20.37	20.23	20.18		
3	16QAM	1	8	20.24	20.19	20.26	21.2	0
3	16QAM	1	14	20.28	20.28	20.13		
3	16QAM	8	0	20.26	20.21	20.27		
3	16QAM	8	4	20.23	20.10	20.07		
3	16QAM	8	7	20.18	20.14	20.07	21.2	0
3	16QAM	15	0	20.23	20.15	20.03		
3	64QAM	1	0	20.42	20.29	20.21		
3	64QAM	1	8	20.28	20.15	20.13		
3	64QAM	1	14	20.33	20.24	20.15	21.2	0
3	64QAM	8	0	20.30	20.18	20.17		
3	64QAM	8	4	20.17	20.13	20.04		
3	64QAM	8	7	20.18	20.15	20.02		
3	64QAM	15	0	20.16	20.10	20.06		
Channel				26897	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	20.47	20.34	20.25	21.2	0
1.4	QPSK	1	3	20.33	20.23	20.19		
1.4	QPSK	1	5	20.35	20.28	20.19		
1.4	QPSK	3	0	20.33	20.24	20.20		
1.4	QPSK	3	1	20.26	20.09	20.07	21.2	0
1.4	QPSK	3	3	20.27	20.19	20.12		
1.4	QPSK	6	0	20.33	20.24	20.13		
1.4	16QAM	1	0	20.34	20.21	20.15		
1.4	16QAM	1	3	20.26	20.17	20.19	21.2	0
1.4	16QAM	1	5	20.29	20.27	20.09		
1.4	16QAM	3	0	20.29	20.20	20.18		
1.4	16QAM	3	1	20.21	20.16	20.01		
1.4	16QAM	3	3	20.19	20.11	20.09	21.2	0
1.4	16QAM	6	0	20.16	20.17	20.00		
1.4	64QAM	1	0	20.36	20.23	20.14		
1.4	64QAM	1	3	20.22	20.21	20.21		
1.4	64QAM	1	5	20.28	20.23	20.14	21.2	0
1.4	64QAM	3	0	20.33	20.18	20.18		
1.4	64QAM	3	1	20.15	20.09	20.13		
1.4	64QAM	3	3	20.19	20.17	20.08		
1.4	64QAM	6	0	20.28	20.09	20.00	20.8	0.8



Band 30								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2770				
Frequency (MHz)				2310				
10	QPSK	1	0		20.19			
10	QPSK	1	25		20.14		20.4	0
10	QPSK	1	49		20.11			
10	QPSK	25	0		20.12			
10	QPSK	25	12		20.11		20.4	0
10	QPSK	25	25		20.10			
10	QPSK	50	0		20.05			
10	16QAM	1	0		20.13			
10	16QAM	1	25		20.06		20.4	0
10	16QAM	1	49		20.11			
10	16QAM	25	0		20.03			
10	16QAM	25	12		20.03		20.4	0
10	16QAM	25	25		20.04			
10	16QAM	50	0		20.15			
10	64QAM	1	0		20.11			
10	64QAM	1	25		20.03		20.4	0
10	64QAM	1	49		20.03			
10	64QAM	25	0		20.10			
10	64QAM	25	12		20.10		20.4	0
10	64QAM	25	25		19.99			
10	64QAM	50	0		20.07			
Channel				2785	2770	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	20.14	20.15	20.12		
5	QPSK	1	12	20.14	20.07	20.14	20.4	0
5	QPSK	1	24	20.09	20.08	20.02		
5	QPSK	12	0	20.05	20.02	20.07		
5	QPSK	12	7	20.07	20.02	20.04	20.4	0
5	QPSK	12	13	20.02	20.09	20.03		
5	QPSK	25	0	20.05	20.03	19.98		
5	16QAM	1	0	20.06	20.10	20.07		
5	16QAM	1	12	19.96	19.96	20.04	20.4	0
5	16QAM	1	24	20.07	20.09	20.02		
5	16QAM	12	0	19.97	19.95	19.99		
5	16QAM	12	7	20.00	19.98	20.00	20.4	0
5	16QAM	12	13	19.99	20.04	19.94		
5	16QAM	25	0	20.06	20.06	20.07		
5	64QAM	1	0	20.10	20.11	20.01		
5	64QAM	1	12	19.93	19.97	19.99	20.4	0
5	64QAM	1	24	20.02	19.95	19.95		
5	64QAM	12	0	20.06	20.04	20.03		
5	64QAM	12	7	20.02	20.05	20.03	20.4	0
5	64QAM	12	13	19.93	19.93	19.97		
5	64QAM	25	0	20.03	20.02	19.97		



Band 71									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				13322	13322	13322			
Frequency (MHz)				673	683	688			
20	QPSK	1	0	19.97	20.00	19.92			
20	QPSK	1	49	19.95	19.88	19.90	20.9	0	
20	QPSK	1	99	19.90	19.96	19.87			
20	QPSK	50	0	19.87	19.95	19.90			
20	QPSK	50	24	19.92	19.91	19.88	20.9	0	
20	QPSK	50	50	19.90	19.89	19.84			
20	QPSK	100	0	19.86	19.89	19.78			
20	16QAM	1	0	19.91	19.88	19.89			
20	16QAM	1	49	19.97	19.92	19.85	20.9	0	
20	16QAM	1	99	19.89	19.97	19.85			
20	16QAM	50	0	19.84	19.87	19.84			
20	16QAM	50	24	19.90	19.85	19.80	20.9	0	
20	16QAM	50	50	19.93	19.95	19.92			
20	16QAM	100	0	19.87	19.95	19.90			
20	64QAM	1	0	19.83	19.94	19.77			
20	64QAM	1	49	19.95	19.89	19.84	20.9	0	
20	64QAM	1	99	19.88	19.97	19.86			
20	64QAM	50	0	19.93	19.91	19.82			
20	64QAM	50	24	19.87	19.87	19.86	20.9	0	
20	64QAM	50	50	19.89	19.80	19.82			
20	64QAM	100	0	19.84	19.91	19.82			
Channel				133197	133297	133397			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	19.92	19.90	19.90			
15	QPSK	1	37	19.87	19.92	19.85	20.9	0	
15	QPSK	1	74	19.90	19.87	19.81			
15	QPSK	36	0	19.92	19.87	19.88			
15	QPSK	36	20	19.92	19.91	19.80	20.9	0	
15	QPSK	36	39	19.89	19.92	19.78			
15	QPSK	75	0	19.76	19.87	19.71			
15	16QAM	1	0	19.87	19.84	19.85			
15	16QAM	1	37	19.89	19.83	19.75	20.9	0	
15	16QAM	1	74	19.84	19.91	19.75			
15	16QAM	36	0	19.79	19.86	19.75			
15	16QAM	36	20	19.89	19.85	19.75	20.9	0	
15	16QAM	36	39	19.93	19.91	19.89			
15	16QAM	75	0	19.82	19.86	19.87			
15	64QAM	1	0	19.83	19.94	19.74			
15	64QAM	1	37	19.95	19.79	19.76	20.9	0	
15	64QAM	1	74	19.83	19.86	19.83			
15	64QAM	36	0	19.86	19.91	19.74			
15	64QAM	36	20	19.87	19.77	19.77	20.9	0	
15	64QAM	36	39	19.83	19.80	19.72			
15	64QAM	75	0	19.76	19.82	19.76			
Channel				133172	133272	133422			
Frequency (MHz)				668	678	693			
10	QPSK	1	0	19.91	19.85	19.85			
10	QPSK	1	25	19.91	19.88	19.82	20.9	0	
10	QPSK	1	49	19.83	19.86	19.79			
10	QPSK	25	0	19.85	19.88	19.84			
10	QPSK	25	12	19.82	19.85	19.84	20.9	0	
10	QPSK	25	25	19.81	19.89	19.78			
10	QPSK	50	0	19.85	19.86	19.75			
10	16QAM	1	0	19.88	19.79	19.83			
10	16QAM	1	25	19.95	19.84	19.76	20.9	0	
10	16QAM	1	49	19.80	19.93	19.80			
10	16QAM	25	0	19.84	19.86	19.81			
10	16QAM	25	12	19.84	19.81	19.74	20.9	0	
10	16QAM	25	25	19.90	19.94	19.91			
10	16QAM	50	0	19.87	19.92	19.89			
10	64QAM	1	0	19.73	19.86	19.72			
10	64QAM	1	25	19.87	19.87	19.75	20.9	0	
10	64QAM	1	49	19.82	19.89	19.83			
10	64QAM	25	0	19.84	19.87	19.78	20.9	0	
10	64QAM	25	12	19.79	19.85	19.79			
10	64QAM	25	25	19.87	19.85	19.81	20.9	0	
10	64QAM	50	0	19.80	19.87	19.72			
Channel				133147	133247	133447			
Frequency (MHz)				665.5	675.5	695.5			
5	QPSK	1	0	19.90	19.86	19.90			
5	QPSK	1	12	19.93	19.88	19.86	20.9	0	
5	QPSK	1	24	19.85	19.91	19.84			
5	QPSK	12	0	19.93	19.92	19.85			
5	QPSK	12	7	19.90	19.88	19.85	20.9	0	
5	QPSK	12	13	19.80	19.91	19.82			
5	QPSK	25	0	19.77	19.87	19.69			
5	16QAM	1	0	19.89	19.83	19.84			
5	16QAM	1	12	19.95	19.89	19.81	20.9	0	
5	16QAM	1	24	19.84	19.90	19.80			
5	16QAM	12	0	19.76	19.78	19.79			
5	16QAM	12	7	19.88	19.84	19.78	20.9	0	
5	16QAM	12	13	19.92	19.93	19.91			
5	16QAM	25	0	19.84	19.91	19.82			
5	64QAM	1	0	19.78	19.86	19.74			
5	64QAM	1	12	19.87	19.83	19.84	20.9	0	
5	64QAM	1	24	19.79	19.94	19.82			
5	64QAM	12	0	19.93	19.83	19.77			
5	64QAM	12	7	19.85	19.77	19.83	20.9	0	
5	64QAM	12	13	19.83	19.89	19.81			
5	64QAM	25	0	19.80	19.82	19.72			



Band 71_Ant 2								
Band (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up (dBm)	MPR (dB)
Channel				13322	13322	13322		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	19.09	19.02	18.92		
20	QPSK	1	49	18.97	19.00	18.92	19.5	0
20	QPSK	1	99	18.92	18.98	18.89		
20	QPSK	50	0	18.94	18.97	18.84		
20	QPSK	50	24	18.94	18.93	18.90	19.5	0
20	QPSK	50	50	18.92	18.91	18.88		
20	QPSK	100	0	18.92	18.94	18.83		
20	16QAM	1	0	18.93	18.88	18.91		
20	16QAM	1	49	18.99	18.94	18.85	19.5	0
20	16QAM	1	99	18.91	18.99	18.87		
20	16QAM	50	0	18.86	18.89	18.86		
20	16QAM	50	24	18.92	18.97	18.82	19.5	0
20	16QAM	50	50	18.95	18.97	18.94		
20	16QAM	100	0	18.89	18.97	18.92		
20	64QAM	1	0	18.85	18.95	18.79		
20	64QAM	1	49	18.97	18.91	18.86	19.5	0
20	64QAM	1	99	18.90	18.99	18.88		
20	64QAM	50	0	18.95	18.93	18.84		
20	64QAM	50	24	18.89	18.89	18.88	19.5	0
20	64QAM	50	50	18.91	18.92	18.84		
20	64QAM	100	0	18.86	18.93	18.84		
Channel				133197	133297	133397		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	18.94	18.92	18.92		
15	QPSK	1	37	18.89	18.94	18.87	19.5	0
15	QPSK	1	74	18.92	18.89	18.83		
15	QPSK	36	0	18.94	18.97	18.84		
15	QPSK	36	20	18.94	18.93	18.82	19.5	0
15	QPSK	36	39	18.91	18.94	18.80		
15	QPSK	75	0	18.78	18.89	18.73		
15	16QAM	1	0	18.89	18.86	18.87		
15	16QAM	1	37	18.91	18.85	18.77	19.5	0
15	16QAM	1	74	18.86	18.93	18.77		
15	16QAM	36	0	18.81	18.88	18.77		
15	16QAM	36	20	18.91	18.87	18.77	19.5	0
15	16QAM	36	39	18.95	18.93	18.91		
15	16QAM	75	0	18.94	18.90	18.89		
15	64QAM	1	0	18.85	18.96	18.78		
15	64QAM	1	37	18.97	18.81	18.78	19.5	0
15	64QAM	1	74	18.85	18.98	18.85		
15	64QAM	36	0	18.88	18.93	18.76		
15	64QAM	36	20	18.89	18.79	18.79	19.5	0
15	64QAM	36	39	18.85	18.90	18.74		
15	64QAM	75	0	18.78	18.84	18.78		
Channel				133172	133272	133422		
Frequency (MHz)				668	678	693		
10	QPSK	1	0	18.93	18.97	18.87		
10	QPSK	1	25	18.93	18.90	18.84	19.5	0
10	QPSK	1	49	18.85	18.96	18.81		
10	QPSK	25	0	18.97	18.90	18.86		
10	QPSK	25	12	18.84	18.87	18.86	19.5	0
10	QPSK	25	25	18.83	18.91	18.78		
10	QPSK	50	0	18.87	18.88	18.77		
10	16QAM	1	0	18.90	18.81	18.85		
10	16QAM	1	25	18.97	18.86	18.78	19.5	0
10	16QAM	1	49	18.82	18.95	18.82		
10	16QAM	25	0	18.86	18.88	18.83		
10	16QAM	25	12	18.86	18.83	18.79	19.5	0
10	16QAM	25	25	18.92	18.96	18.93		
10	16QAM	50	0	18.89	18.94	18.91		
10	64QAM	1	0	18.75	18.90	18.74		
10	64QAM	1	25	18.89	18.89	18.77	19.5	0
10	64QAM	1	49	18.84	18.91	18.85		
10	64QAM	25	0	18.86	18.89	18.80		
10	64QAM	25	12	18.81	18.87	18.81	19.5	0
10	64QAM	25	25	18.89	18.87	18.83		
10	64QAM	50	0	18.82	18.89	18.74		
Channel				133147	133247	133447		
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	18.92	18.98	18.92		
5	QPSK	1	12	18.95	19.00	18.88	19.5	0
5	QPSK	1	24	18.87	18.93	18.86		
5	QPSK	12	0	18.95	18.94	18.90		
5	QPSK	12	7	18.92	18.90	18.87	19.5	0
5	QPSK	12	13	18.82	18.93	18.84		
5	QPSK	25	0	18.79	18.89	18.71		
5	16QAM	1	0	18.91	18.85	18.86		
5	16QAM	1	12	18.97	18.91	18.83	19.5	0
5	16QAM	1	24	18.86	18.92	18.82		
5	16QAM	12	0	18.78	18.80	18.81		
5	16QAM	12	7	18.90	18.86	18.80	19.5	0
5	16QAM	12	13	18.94	18.95	18.93		
5	16QAM	25	0	18.86	18.93	18.84		
5	64QAM	1	0	18.80	18.98	18.76		
5	64QAM	1	12	18.89	18.85	18.89	19.5	0
5	64QAM	1	24	18.81	18.96	18.84		
5	64QAM	12	0	18.95	18.85	18.79		
5	64QAM	12	7	18.87	18.79	18.85	19.5	0
5	64QAM	12	13	18.85	18.91	18.83		
5	64QAM	25	0	18.82	18.84	18.74		



Band 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20590			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	15.72	15.75	15.73			
10	QPSK	1	25	15.63	15.63	15.43	15.8	0	
10	QPSK	1	49	15.66	15.64	15.32			
10	QPSK	25	0	15.53	15.64	15.62			
10	QPSK	25	12	15.60	15.65	15.60	15.8	0	
10	QPSK	25	25	15.64	15.65	15.65			
10	QPSK	50	0	15.63	15.63	15.60			
10	16QAM	1	0	15.65	15.67	15.62			
10	16QAM	1	25	15.52	15.67	15.56	15.8	0	
10	16QAM	1	49	15.58	15.67	15.58			
10	16QAM	25	0	15.61	15.58	15.62			
10	16QAM	25	12	15.60	15.60	15.58	15.8	0	
10	16QAM	25	25	15.56	15.67	15.58			
10	16QAM	50	0	15.63	15.64	15.64			
10	64QAM	1	0	15.55	15.66	15.55			
10	64QAM	1	25	15.60	15.61	15.61	15.8	0	
10	64QAM	1	49	15.59	15.63	15.65			
10	64QAM	25	0	15.66	15.59	15.72			
10	64QAM	25	12	15.61	15.67	15.45	15.8	0	
10	64QAM	25	25	15.63	15.61	15.65			
10	64QAM	50	0	15.56	15.74	15.61			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	15.70	15.65	15.72			
5	QPSK	1	12	15.63	15.56	15.48	15.8	0	
5	QPSK	1	24	15.56	15.55	15.38			
5	QPSK	12	0	15.60	15.59	15.63			
5	QPSK	12	7	15.58	15.65	15.66	15.8	0	
5	QPSK	12	13	15.63	15.62	15.66			
5	QPSK	25	0	15.57	15.63	15.55			
5	16QAM	1	0	15.60	15.62	15.56			
5	16QAM	1	12	15.55	15.62	15.56	15.8	0	
5	16QAM	1	24	15.60	15.65	15.61			
5	16QAM	12	0	15.61	15.65	15.58			
5	16QAM	12	7	15.62	15.66	15.56	15.8	0	
5	16QAM	12	13	15.57	15.68	15.56			
5	16QAM	25	0	15.64	15.65	15.59			
5	64QAM	1	0	15.57	15.66	15.52			
5	64QAM	1	12	15.63	15.62	15.66	15.8	0	
5	64QAM	1	24	15.58	15.64	15.57			
5	64QAM	12	0	15.60	15.61	15.68			
5	64QAM	12	7	15.64	15.58	15.74	15.8	0	
5	64QAM	12	13	15.59	15.67	15.66			
5	64QAM	25	0	15.64	15.73	15.58			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	15.74	15.69	15.69			
3	QPSK	1	8	15.59	15.60	15.43	15.8	0	
3	QPSK	1	14	15.64	15.50	15.34			
3	QPSK	8	0	15.54	15.61	15.56			
3	QPSK	8	4	15.62	15.73	15.67	15.8	0	
3	QPSK	8	7	15.59	15.62	15.66			
3	QPSK	15	0	15.65	15.69	15.51			
3	16QAM	1	0	15.62	15.66	15.58			
3	16QAM	1	8	15.51	15.62	15.57	15.8	0	
3	16QAM	1	14	15.65	15.61	15.65			
3	16QAM	8	0	15.59	15.66	15.66			
3	16QAM	8	4	15.61	15.60	15.66	15.8	0	
3	16QAM	8	7	15.57	15.68	15.58			
3	16QAM	15	0	15.65	15.69	15.56			
3	64QAM	1	0	15.54	15.58	15.57			
3	64QAM	1	8	15.63	15.63	15.66	15.8	0	
3	64QAM	1	14	15.55	15.58	15.58			
3	64QAM	8	0	15.62	15.55	15.67			
3	64QAM	8	4	15.65	15.64	15.72	15.8	0	
3	64QAM	8	7	15.59	15.67	15.72			
3	64QAM	15	0	15.60	15.69	15.64			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	15.68	15.65	15.74			
1.4	QPSK	1	3	15.65	15.54	15.43	15.8	0	
1.4	QPSK	1	5	15.60	15.51	15.36			
1.4	QPSK	3	0	15.59	15.64	15.63			
1.4	QPSK	3	1	15.65	15.45	15.65			
1.4	QPSK	3	3	15.60	15.64	15.63	15.8	0	
1.4	QPSK	6	0	15.61	15.66	15.52			
1.4	16QAM	1	0	15.68	15.60	15.63			
1.4	16QAM	1	3	15.60	15.56	15.52	15.8	0	
1.4	16QAM	1	5	15.56	15.67	15.64			
1.4	16QAM	3	0	15.60	15.64	15.65			
1.4	16QAM	3	1	15.59	15.68	15.66			
1.4	16QAM	3	3	15.59	15.71	15.52			
1.4	16QAM	6	0	15.57	15.66	15.56	15.8	0	
1.4	64QAM	1	0	15.57	15.62	15.53			
1.4	64QAM	1	3	15.64	15.56	15.62			
1.4	64QAM	1	5	15.55	15.66	15.61	15.8	0	
1.4	64QAM	3	0	15.57	15.61	15.70			
1.4	64QAM	3	1	15.58	15.59	15.73			
1.4	64QAM	3	3	15.67	15.56	15.66			
1.4	64QAM	6	0	15.60	15.46	15.66	15.8	0	



Band 5_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20590		
Frequency (MHz)				825	836.5	844		
10	QPSK	1	0	14.31	14.29	14.18	15	0
10	QPSK	1	25	14.30	14.16	14.11		
10	QPSK	1	49	14.27	14.12	14.02		
10	QPSK	25	0	14.25	14.18	14.13	15	0
10	QPSK	25	12	14.18	14.27	14.20		
10	QPSK	25	25	14.29	14.23	14.22		
10	QPSK	50	0	14.29	14.08	14.17	15	0
10	16QAM	1	0	14.22	14.25	14.24		
10	16QAM	1	25	14.23	14.15	14.10		
10	16QAM	1	49	14.24	14.25	14.13	15	0
10	16QAM	25	0	14.21	14.19	14.27		
10	16QAM	25	12	14.20	14.29	14.22		
10	16QAM	25	25	14.23	14.20	14.14	15	0
10	16QAM	50	0	14.29	14.26	14.13		
10	64QAM	1	0	14.22	14.30	14.25		
10	64QAM	1	25	14.19	14.16	14.20	15	0
10	64QAM	1	49	14.20	14.25	14.20		
10	64QAM	25	0	14.23	14.26	14.28		
10	64QAM	25	12	14.26	14.08	14.29	15	0
10	64QAM	25	25	14.26	14.10	14.25		
10	64QAM	50	0	14.30	14.23	14.19		
Channel				20425	20525	20625		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	14.14	14.21	14.13	15	0
5	QPSK	1	12	14.07	13.96	14.04		
5	QPSK	1	24	13.96	13.92	14.10		
5	QPSK	12	0	14.19	14.18	14.17	15	0
5	QPSK	12	7	14.13	14.29	14.17		
5	QPSK	12	13	14.16	14.19	14.14		
5	QPSK	25	0	14.19	14.28	14.17	15	0
5	16QAM	1	0	14.12	14.23	14.07		
5	16QAM	1	12	14.17	14.15	13.94		
5	16QAM	1	24	14.14	14.25	14.25	15	0
5	16QAM	12	0	14.16	14.17	14.29		
5	16QAM	12	7	14.15	14.07	14.16		
5	16QAM	12	13	14.13	14.22	14.23	15	0
5	16QAM	25	0	14.15	14.24	14.25		
5	64QAM	1	0	14.11	14.07	14.05		
5	64QAM	1	12	14.10	14.14	14.12	15	0
5	64QAM	1	24	14.07	14.15	14.08		
5	64QAM	12	0	14.08	14.17	14.10		
5	64QAM	12	7	14.23	14.30	14.19	15	0
5	64QAM	12	13	14.08	14.10	14.10		
5	64QAM	25	0	14.30	14.09	14.14		
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	14.24	14.30	14.20	15	0
3	QPSK	1	8	14.10	14.19	14.04		
3	QPSK	1	14	14.05	14.01	14.04		
3	QPSK	8	0	14.29	14.18	14.20	15	0
3	QPSK	8	4	14.15	14.13	14.22		
3	QPSK	8	7	14.27	14.24	14.13		
3	QPSK	15	0	14.19	14.12	14.11	15	0
3	16QAM	1	0	14.16	14.08	14.09		
3	16QAM	1	8	13.99	14.20	14.04		
3	16QAM	1	14	14.25	14.20	14.19	15	0
3	16QAM	8	0	14.29	14.22	14.17		
3	16QAM	8	4	14.11	14.14	14.15		
3	16QAM	8	7	14.19	14.16	14.15	15	0
3	16QAM	15	0	14.16	14.13	14.10		
3	64QAM	1	0	14.10	14.22	14.11		
3	64QAM	1	8	14.12	14.02	14.08	15	0
3	64QAM	1	14	14.11	14.08	14.05		
3	64QAM	8	0	14.16	14.08	14.10		
3	64QAM	8	4	14.23	14.24	14.02	15	0
3	64QAM	8	7	14.17	14.10	14.03		
3	64QAM	15	0	14.07	14.25	14.21		
Channel				20407	20525	20643		
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	14.28	14.23	14.25	15	0
1.4	QPSK	1	3	13.99	13.99	14.09		
1.4	QPSK	1	5	14.05	14.00	14.02		
1.4	QPSK	3	0	14.26	14.20	14.25	15	0
1.4	QPSK	3	1	14.19	14.24	14.25		
1.4	QPSK	3	3	14.25	14.20	14.13		
1.4	QPSK	6	0	14.30	14.21	14.12	15	0
1.4	16QAM	1	0	14.23	14.20	14.03		
1.4	16QAM	1	3	14.15	14.06	14.07		
1.4	16QAM	1	5	14.24	14.05	14.16	15	0
1.4	16QAM	3	0	14.23	14.22	14.25		
1.4	16QAM	3	1	14.15	14.15	14.16		
1.4	16QAM	3	3	14.17	14.25	14.13	15	0
1.4	16QAM	6	0	14.29	14.08	14.23		
1.4	64QAM	1	0	14.15	14.27	14.15		
1.4	64QAM	1	3	14.10	14.08	14.09	15	0
1.4	64QAM	1	5	14.05	14.02	14.19		
1.4	64QAM	3	0	14.21	14.18	14.01		
1.4	64QAM	3	1	14.20	14.22	14.27	15	0
1.4	64QAM	3	3	13.99	14.03	14.10		
1.4	64QAM	6	0	14.22	14.27	14.14		



Band 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2610	2535	2550			
Frequency (MHz)				2610	2535	2550			
20	QPSK	1	0	13.63	13.67	13.50			
20	QPSK	1	49	13.42	13.32	13.39	13.9	0	
20	QPSK	1	99	13.45	13.30	13.43			
20	QPSK	50	0	13.60	13.62	13.59			
20	QPSK	50	24	13.56	13.58	13.58	13.9	0	
20	QPSK	50	50	13.54	13.57	13.52			
20	QPSK	100	0	13.48	13.60	13.47			
20	16QAM	1	0	13.41	13.50	13.51			
20	16QAM	1	49	13.41	13.40	13.53	13.9	0	
20	16QAM	1	99	13.41	13.48	13.52			
20	16QAM	50	0	13.54	13.46	13.52			
20	16QAM	50	24	13.43	13.54	13.62	13.9	0	
20	16QAM	50	50	13.64	13.60	13.63			
20	16QAM	100	0	13.59	13.52	13.46			
20	64QAM	1	0	13.65	13.59	13.55			
20	64QAM	1	49	13.41	13.42	13.50	13.9	0	
20	64QAM	1	99	13.40	13.47	13.55			
20	64QAM	50	0	13.57	13.50	13.54	13.9	0	
20	64QAM	50	24	13.65	13.59	13.65	13.9	0	
20	64QAM	50	50	13.47	13.61	13.66			
20	64QAM	100	0	13.62	13.58	13.53			
Channel				20825	21100	21375			
Frequency (MHz)				2070.5	2535	2562.5			
15	QPSK	1	0	13.55	13.60	13.43			
15	QPSK	1	37	13.42	13.30	13.37	13.9	0	
15	QPSK	1	74	13.36	13.42	13.38			
15	QPSK	36	0	13.35	13.30	13.58			
15	QPSK	36	20	13.55	13.55	13.47	13.9	0	
15	QPSK	36	39	13.54	13.55	13.48			
15	QPSK	75	0	13.59	13.48	13.40			
15	16QAM	1	0	13.34	13.47	13.46			
15	16QAM	1	37	13.41	13.30	13.51	13.9	0	
15	16QAM	1	74	13.38	13.40	13.48			
15	16QAM	36	0	13.44	13.36	13.50			
15	16QAM	36	20	13.35	13.50	13.60	13.9	0	
15	16QAM	36	39	13.60	13.51	13.60			
15	16QAM	75	0	13.49	13.43	13.41			
15	64QAM	1	0	13.58	13.59	13.51			
15	64QAM	1	37	13.41	13.36	13.50	13.9	0	
15	64QAM	1	74	13.30	13.39	13.45			
15	64QAM	36	0	13.56	13.48	13.45	13.9	0	
15	64QAM	36	20	13.63	13.51	13.58			
15	64QAM	36	39	13.46	13.61	13.63			
15	64QAM	75	0	13.56	13.54	13.50			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	13.58	13.61	13.42			
10	QPSK	1	25	13.38	13.23	13.39	13.9	0	
10	QPSK	1	49	13.41	13.44	13.41			
10	QPSK	25	0	13.52	13.52	13.51			
10	QPSK	25	12	13.53	13.50	13.51	13.9	0	
10	QPSK	25	25	13.47	13.47	13.51			
10	QPSK	50	0	13.54	13.48	13.43			
10	16QAM	1	0	13.36	13.44	13.41			
10	16QAM	1	25	13.38	13.34	13.43	13.9	0	
10	16QAM	1	49	13.41	13.42	13.43			
10	16QAM	25	0	13.46	13.43	13.51			
10	16QAM	25	12	13.37	13.52	13.54	13.9	0	
10	16QAM	25	25	13.61	13.60	13.62			
10	16QAM	50	0	13.59	13.49	13.43			
10	64QAM	1	0	13.64	13.58	13.56			
10	64QAM	1	25	13.35	13.35	13.44	13.9	0	
10	64QAM	1	49	13.33	13.41	13.50			
10	64QAM	25	0	13.52	13.49	13.45	13.9	0	
10	64QAM	25	12	13.62	13.52	13.63			
10	64QAM	25	25	13.47	13.60	13.64			
10	64QAM	50	0	13.62	13.49	13.45			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	13.63	13.61	13.41			
5	QPSK	1	12	13.35	13.30	13.39	13.9	0	
5	QPSK	1	24	13.45	13.47	13.37			
5	QPSK	12	0	13.50	13.52	13.50			
5	QPSK	12	7	13.52	13.51	13.48	13.9	0	
5	QPSK	12	13	13.51	13.49	13.45			
5	QPSK	25	0	13.55	13.38	13.38			
5	16QAM	1	0	13.35	13.49	13.42			
5	16QAM	1	12	13.40	13.40	13.43	13.9	0	
5	16QAM	1	24	13.38	13.41	13.52			
5	16QAM	12	0	13.48	13.43	13.48			
5	16QAM	12	7	13.34	13.50	13.62	13.9	0	
5	16QAM	12	13	13.59	13.57	13.60			
5	16QAM	25	0	13.52	13.46	13.42			
5	64QAM	1	0	13.56	13.52	13.54			
5	64QAM	1	12	13.39	13.41	13.45	13.9	0	
5	64QAM	1	24	13.36	13.45	13.51			
5	64QAM	12	0	13.53	13.50	13.53			
5	64QAM	12	7	13.56	13.50	13.61	13.9	0	
5	64QAM	12	13	13.45	13.54	13.56			
5	64QAM	25	0	13.52	13.55	13.50			



Band 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23055	23095	23150			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	17.69	17.82	17.72			
10	QPSK	1	25	17.55	17.51	17.47	18.5	0	
10	QPSK	1	49	17.42	17.41	17.37			
10	QPSK	25	0	17.55	17.61	17.52			
10	QPSK	25	12	17.50	17.45	17.44	18.5	0	
10	QPSK	25	25	17.49	17.44	17.40			
10	QPSK	50	0	17.53	17.54	17.43			
10	16QAM	1	0	17.76	17.71	17.71			
10	16QAM	1	25	17.73	17.71	17.73	18.5	0	
10	16QAM	1	49	17.80	17.81	17.74			
10	16QAM	25	0	17.47	17.50	17.48			
10	16QAM	25	12	17.55	17.46	17.45	18.5	0	
10	16QAM	25	25	17.49	17.49	17.50			
10	16QAM	50	0	17.54	17.51	17.43			
10	64QAM	1	0	17.61	17.50	17.56			
10	64QAM	1	25	17.69	17.65	17.64	18.5	0	
10	64QAM	1	49	17.70	17.71	17.68			
10	64QAM	25	0	17.52	17.48	17.53			
10	64QAM	25	12	17.57	17.50	17.50	18.5	0	
10	64QAM	25	25	17.54	17.53	17.56			
10	64QAM	50	0	17.56	17.58	17.48			
Channel				23055	23095	23150			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	17.61	17.79	17.72			
5	QPSK	1	12	17.45	17.41	17.44	18.5	0	
5	QPSK	1	24	17.41	17.35	17.30			
5	QPSK	12	0	17.45	17.56	17.45			
5	QPSK	12	7	17.50	17.45	17.40	18.5	0	
5	QPSK	12	13	17.49	17.41	17.40			
5	QPSK	25	0	17.43	17.48	17.34			
5	16QAM	1	0	17.77	17.71	17.69			
5	16QAM	1	12	17.70	17.67	17.65	18.5	0	
5	16QAM	1	24	17.71	17.77	17.70			
5	16QAM	12	0	17.46	17.49	17.39			
5	16QAM	12	7	17.52	17.56	17.35	18.5	0	
5	16QAM	12	13	17.48	17.47	17.49			
5	16QAM	25	0	17.47	17.51	17.35			
5	64QAM	1	0	17.52	17.49	17.54			
5	64QAM	1	12	17.65	17.56	17.54	18.5	0	
5	64QAM	1	24	17.67	17.62	17.65			
5	64QAM	12	0	17.42	17.46	17.52			
5	64QAM	12	7	17.49	17.48	17.50	18.5	0	
5	64QAM	12	13	17.51	17.48	17.46			
5	64QAM	25	0	17.46	17.51	17.46			
Channel				23025	23095	23105			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	17.59	17.78	17.64			
3	QPSK	1	8	17.50	17.50	17.37	18.5	0	
3	QPSK	1	14	17.32	17.35	17.30			
3	QPSK	8	0	17.45	17.56	17.51			
3	QPSK	8	4	17.47	17.41	17.41	18.5	0	
3	QPSK	8	7	17.48	17.34	17.31			
3	QPSK	15	0	17.53	17.52	17.34			
3	16QAM	1	0	17.89	17.68	17.69			
3	16QAM	1	8	17.86	17.61	17.65	18.5	0	
3	16QAM	1	14	17.79	17.71	17.73			
3	16QAM	8	0	17.43	17.42	17.46			
3	16QAM	8	4	17.51	17.37	17.39	18.5	0	
3	16QAM	8	7	17.43	17.43	17.45			
3	16QAM	15	0	17.51	17.45	17.38			
3	64QAM	1	0	17.55	17.42	17.46			
3	64QAM	1	8	17.63	17.62	17.63	18.5	0	
3	64QAM	1	14	17.62	17.68	17.68			
3	64QAM	8	0	17.45	17.42	17.50			
3	64QAM	8	4	17.47	17.50	17.40	18.5	0	
3	64QAM	8	7	17.53	17.43	17.46			
3	64QAM	15	0	17.48	17.56	17.45			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	17.68	17.81	17.65			
1.4	QPSK	1	3	17.47	17.45	17.39	18.5	0	
1.4	QPSK	1	5	17.37	17.39	17.28			
1.4	QPSK	3	0	17.45	17.53	17.43			
1.4	QPSK	3	1	17.42	17.39	17.38			
1.4	QPSK	3	3	17.40	17.38	17.30	18.5	0	
1.4	QPSK	6	0	17.52	17.46	17.40			
1.4	16QAM	1	0	17.76	17.62	17.69			
1.4	16QAM	1	3	17.63	17.65	17.72			
1.4	16QAM	1	5	17.71	17.71	17.64	18.5	0	
1.4	16QAM	3	0	17.39	17.42	17.48			
1.4	16QAM	3	1	17.49	17.43	17.36			
1.4	16QAM	3	3	17.47	17.47	17.50			
1.4	16QAM	6	0	17.44	17.49	17.39	18.5	0	
1.4	64QAM	1	0	17.52	17.50	17.51			
1.4	64QAM	1	3	17.68	17.56	17.59			
1.4	64QAM	1	5	17.60	17.63	17.63	18.5	0	
1.4	64QAM	3	0	17.45	17.48	17.53			
1.4	64QAM	3	1	17.48	17.49	17.50			
1.4	64QAM	3	3	17.48	17.43	17.56			
1.4	64QAM	6	0	17.54	17.56	17.41	18.5	0	



Band 12_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23000	23095	23150			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	16.67	16.79	16.72	17.5	0	
10	QPSK	1	25	16.62	16.48	16.44			
10	QPSK	1	49	16.39	16.38	16.34			
10	QPSK	25	0	16.61	16.71	16.68	17.5	0	
10	QPSK	25	12	16.47	16.42	16.41			
10	QPSK	25	25	16.46	16.41	16.37			
10	QPSK	50	0	16.65	16.65	16.63	17.5	0	
10	16QAM	1	0	16.75	16.68	16.68			
10	16QAM	1	25	16.70	16.66	16.70			
10	16QAM	1	49	16.77	16.76	16.71	17.5	0	
10	16QAM	25	0	16.44	16.47	16.45			
10	16QAM	25	12	16.62	16.43	16.42			
10	16QAM	25	25	16.46	16.46	16.47	17.5	0	
10	16QAM	50	0	16.51	16.46	16.40			
10	64QAM	1	0	16.68	16.47	16.53			
10	64QAM	1	25	16.66	16.62	16.61	17.5	0	
10	64QAM	1	49	16.67	16.68	16.65			
10	64QAM	25	0	16.49	16.45	16.50			
10	64QAM	25	12	16.54	16.47	16.47	17.5	0	
10	64QAM	25	25	16.51	16.50	16.53			
10	64QAM	50	0	16.53	16.55	16.45			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	16.68	16.76	16.69	17.5	0	
5	QPSK	1	12	16.42	16.38	16.41			
5	QPSK	1	24	16.38	16.32	16.27			
5	QPSK	12	0	16.42	16.53	16.42	17.5	0	
5	QPSK	12	7	16.47	16.42	16.37			
5	QPSK	12	13	16.46	16.38	16.37			
5	QPSK	25	0	16.40	16.45	16.31	17.5	0	
5	16QAM	1	0	16.74	16.68	16.66			
5	16QAM	1	12	16.67	16.64	16.62			
5	16QAM	1	24	16.68	16.74	16.67	17.5	0	
5	16QAM	12	0	16.43	16.46	16.36			
5	16QAM	12	7	16.49	16.33	16.32			
5	16QAM	12	13	16.45	16.44	16.46	17.5	0	
5	16QAM	25	0	16.44	16.46	16.32			
5	64QAM	1	0	16.49	16.46	16.51			
5	64QAM	1	12	16.62	16.53	16.51	17.5	0	
5	64QAM	1	24	16.64	16.59	16.62			
5	64QAM	12	0	16.39	16.43	16.49			
5	64QAM	12	7	16.46	16.45	16.47	17.5	0	
5	64QAM	12	13	16.48	16.45	16.43			
5	64QAM	25	0	16.43	16.48	16.43			
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	16.66	16.75	16.61	17.5	0	
3	QPSK	1	8	16.47	16.47	16.34			
3	QPSK	1	14	16.38	16.32	16.33			
3	QPSK	8	0	16.42	16.53	16.48	17.5	0	
3	QPSK	8	4	16.44	16.38	16.38			
3	QPSK	8	7	16.45	16.31	16.28			
3	QPSK	15	0	16.60	16.49	16.31	17.5	0	
3	16QAM	1	0	16.68	16.65	16.66			
3	16QAM	1	8	16.63	16.58	16.62			
3	16QAM	1	14	16.76	16.68	16.70	17.5	0	
3	16QAM	8	0	16.40	16.39	16.43			
3	16QAM	8	4	16.48	16.34	16.36			
3	16QAM	8	7	16.40	16.40	16.42	17.5	0	
3	16QAM	15	0	16.46	16.46	16.35			
3	64QAM	1	0	16.52	16.39	16.43			
3	64QAM	1	8	16.60	16.59	16.60	17.5	0	
3	64QAM	1	14	16.69	16.65	16.63			
3	64QAM	8	0	16.42	16.39	16.47			
3	64QAM	8	4	16.44	16.47	16.37	17.5	0	
3	64QAM	8	7	16.60	16.40	16.46			
3	64QAM	15	0	16.45	16.53	16.42			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	16.65	16.77	16.62	17.5	0	
1.4	QPSK	1	3	16.44	16.42	16.36			
1.4	QPSK	1	5	16.34	16.36	16.25			
1.4	QPSK	3	0	16.42	16.50	16.40	17.5	0	
1.4	QPSK	3	1	16.39	16.36	16.35			
1.4	QPSK	3	3	16.37	16.35	16.27			
1.4	QPSK	6	0	16.49	16.43	16.37	17.5	0	
1.4	16QAM	1	0	16.73	16.59	16.66			
1.4	16QAM	1	3	16.60	16.62	16.59			
1.4	16QAM	1	5	16.68	16.68	16.61	17.5	0	
1.4	16QAM	3	0	16.36	16.39	16.45			
1.4	16QAM	3	1	16.46	16.40	16.33			
1.4	16QAM	3	3	16.44	16.41	16.47	17.5	0	
1.4	16QAM	6	0	16.41	16.46	16.36			
1.4	64QAM	1	0	16.49	16.47	16.48			
1.4	64QAM	1	3	16.65	16.53	16.56	17.5	0	
1.4	64QAM	1	5	16.67	16.60	16.60			
1.4	64QAM	3	0	16.42	16.43	16.50			
1.4	64QAM	3	1	16.45	16.46	16.47	17.5	0	
1.4	64QAM	3	3	16.45	16.40	16.53			
1.4	64QAM	6	0	16.51	16.53	16.38			



Band 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23250					
Frequency (MHz)				782					
10	QPSK	1	0		16.42				
10	QPSK	1	25		16.39		16.5	0	
10	QPSK	1	49		16.34				
10	QPSK	25	0		16.37				
10	QPSK	25	12		16.31		16.5	0	
10	QPSK	25	25		16.31				
10	QPSK	50	0		16.34				
10	16QAM	1	0		16.34				
10	16QAM	1	25		16.35		16.5	0	
10	16QAM	1	49		16.32				
10	16QAM	25	0		16.38				
10	16QAM	25	12		16.35		16.5	0	
10	16QAM	25	25		16.35				
10	16QAM	50	0		16.32				
10	64QAM	1	0		16.35				
10	64QAM	1	25		16.31		16.5	0	
10	64QAM	1	49		16.36				
10	64QAM	25	0		16.32				
10	64QAM	25	12		16.30		16.5	0	
10	64QAM	25	25		16.30				
10	64QAM	50	0		16.25				
Channel				23205					
Frequency (MHz)				779.5			782	784.5	
5	QPSK	1	0	16.41	16.41	16.38			
5	QPSK	1	12	16.38	16.36	16.29	16.5	0	
5	QPSK	1	24	16.25	16.24	16.31			
5	QPSK	12	0	16.37	16.29	16.34			
5	QPSK	12	7	16.27	16.30	16.23	16.5	0	
5	QPSK	12	13	16.25	16.25	16.24			
5	QPSK	25	0	16.28	16.30	16.28			
5	16QAM	1	0	16.33	16.24	16.25			
5	16QAM	1	12	16.27	16.26	16.26	16.5	0	
5	16QAM	1	24	16.29	16.24	16.29			
5	16QAM	12	0	16.35	16.35	16.36			
5	16QAM	12	7	16.29	16.26	16.34	16.5	0	
5	16QAM	12	13	16.30	16.26	16.29			
5	16QAM	25	0	16.28	16.29	16.32			
5	64QAM	1	0	16.27	16.32	16.32			
5	64QAM	1	12	16.23	16.28	16.25	16.5	0	
5	64QAM	1	24	16.30	16.29	16.28			
5	64QAM	12	0	16.23	16.28	16.24			
5	64QAM	12	7	16.23	16.24	16.26	16.5	0	
5	64QAM	12	13	16.27	16.22	16.21			
5	64QAM	25	0	16.21	16.18	16.20			



Band 13_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23250					
Frequency (MHz)				782					
10	QPSK	1	0		16.86				
10	QPSK	1	25		16.83		17.5	0	
10	QPSK	1	49		16.76				
10	QPSK	25	0		16.75				
10	QPSK	25	12		16.75		17.5	0	
10	QPSK	25	25		16.75				
10	QPSK	50	0		16.69				
10	16QAM	1	0		16.78				
10	16QAM	1	25		16.79		17.5	0	
10	16QAM	1	49		16.76				
10	16QAM	25	0		16.82				
10	16QAM	25	12		16.79		17.5	0	
10	16QAM	25	25		16.79				
10	16QAM	50	0		16.76				
10	64QAM	1	0		16.79				
10	64QAM	1	25		16.75		17.5	0	
10	64QAM	1	49		16.80				
10	64QAM	25	0		16.76				
10	64QAM	25	12		16.74		17.5	0	
10	64QAM	25	25		16.74				
10	64QAM	50	0		16.69				
Channel				23205					
Frequency (MHz)				779.5			782	784.5	
5	QPSK	1	0	16.85	16.85	16.82			
5	QPSK	1	12	16.82	16.80	16.73	17.5	0	
5	QPSK	1	24	16.69	16.68	16.75			
5	QPSK	12	0	16.81	16.73	16.75			
5	QPSK	12	7	16.71	16.74	16.67	17.5	0	
5	QPSK	12	13	16.69	16.69	16.68			
5	QPSK	25	0	16.72	16.74	16.72			
5	16QAM	1	0	16.77	16.68	16.69			
5	16QAM	1	12	16.71	16.70	16.70	17.5	0	
5	16QAM	1	24	16.73	16.68	16.73			
5	16QAM	12	0	16.79	16.79	16.80			
5	16QAM	12	7	16.73	16.70	16.76	17.5	0	
5	16QAM	12	13	16.74	16.70	16.73			
5	16QAM	25	0	16.72	16.73	16.76			
5	64QAM	1	0	16.71	16.76	16.75			
5	64QAM	1	12	16.67	16.72	16.69	17.5	0	
5	64QAM	1	24	16.74	16.73	16.72			
5	64QAM	12	0	16.67	16.72	16.68			
5	64QAM	12	7	16.67	16.68	16.70	17.5	0	
5	64QAM	12	13	16.71	16.66	16.65			
5	64QAM	25	0	16.65	16.62	16.64			



Band 14								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				23350				
Frequency (MHz)				793				
10	QPSK	1	0		16.58			
10	QPSK	1	25		16.67		16.6	0
10	QPSK	1	49		16.53			
10	QPSK	25	0		16.55			
10	QPSK	25	12		16.52		16.6	0
10	QPSK	25	25		16.50			
10	QPSK	50	0		16.51			
10	16QAM	1	0		16.54			
10	16QAM	1	25		16.56		16.6	0
10	16QAM	1	49		16.49			
10	16QAM	25	0		16.54			
10	16QAM	25	12		16.42		16.6	0
10	16QAM	25	25		16.48			
10	16QAM	50	0		16.48			
10	64QAM	1	0		16.40			
10	64QAM	1	25		16.48		16.6	0
10	64QAM	1	49		16.50			
10	64QAM	25	0		16.50			
10	64QAM	25	12		16.54		16.6	0
10	64QAM	25	25		16.52			
10	64QAM	50	0		16.44			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	16.55	16.67	16.50		
5	QPSK	1	12	16.55	16.52	16.49	16.6	0
5	QPSK	1	24	16.45	16.45	16.47		
5	QPSK	12	0	16.53	16.54	16.47		
5	QPSK	12	7	16.56	16.48	16.56	16.6	0
5	QPSK	12	13	16.50	16.49	16.53		
5	QPSK	25	0	16.50	16.45	16.44		
5	16QAM	1	0	16.44	16.52	16.45		
5	16QAM	1	12	16.53	16.47	16.47	16.6	0
5	16QAM	1	24	16.39	16.41	16.48		
5	16QAM	12	0	16.49	16.45	16.45		
5	16QAM	12	7	16.38	16.42	16.35	16.6	0
5	16QAM	12	13	16.43	16.40	16.36		
5	16QAM	25	0	16.46	16.42	16.48		
5	64QAM	1	0	16.30	16.33	16.31		
5	64QAM	1	12	16.46	16.40	16.46	16.6	0
5	64QAM	1	24	16.42	16.42	16.42		
5	64QAM	12	0	16.50	16.46	16.50		
5	64QAM	12	7	16.46	16.52	16.48	16.6	0
5	64QAM	12	13	16.46	16.52	16.42		
5	64QAM	25	0	16.41	16.37	16.44		



Band 14_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23305					
Frequency (MHz)				793					
10	QPSK	1	0		18.45				
10	QPSK	1	25		18.44		17.3	0	
10	QPSK	1	49		18.40				
10	QPSK	25	0		18.33				
10	QPSK	25	12		18.39		17.3	0	
10	QPSK	25	25		18.37				
10	QPSK	50	0		18.29				
10	16QAM	1	0		18.41				
10	16QAM	1	25		18.43		17.3	0	
10	16QAM	1	49		18.38				
10	16QAM	25	0		18.41				
10	16QAM	25	12		18.29		17.3	0	
10	16QAM	25	25		18.33				
10	16QAM	50	0		18.25				
10	64QAM	1	0		18.27				
10	64QAM	1	25		18.35		17.3	0	
10	64QAM	1	49		18.37				
10	64QAM	25	0		18.37				
10	64QAM	25	12		18.41		17.3	0	
10	64QAM	25	25		18.39				
10	64QAM	50	0		18.31				
Channel				23305	23330	23355			
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	0	18.41	18.44	18.27			
5	QPSK	1	12	18.37	18.39	18.27	17.3	0	
5	QPSK	1	24	18.32	18.32	18.29			
5	QPSK	12	0	18.35	18.41	18.31			
5	QPSK	12	7	18.34	18.35	18.38			
5	QPSK	12	13	18.27	18.38	18.31	17.3	0	
5	QPSK	25	0	18.34	18.32	18.28			
5	16QAM	1	0	18.31	18.39	18.23			
5	16QAM	1	12	18.40	18.34	18.31	17.3	0	
5	16QAM	1	24	18.18	18.28	18.34			
5	16QAM	12	0	18.34	18.32	18.23			
5	16QAM	12	7	18.22	18.29	18.19	17.3	0	
5	16QAM	12	13	18.21	18.27	18.13			
5	16QAM	25	0	18.33	18.29	18.30			
5	64QAM	1	0	18.11	18.20	18.15			
5	64QAM	1	12	18.31	18.27	18.24	17.3	0	
5	64QAM	1	24	18.19	18.29	18.19			
5	64QAM	12	0	18.27	18.33	18.37			
5	64QAM	12	7	18.29	18.39	18.34	17.3	0	
5	64QAM	12	13	18.32	18.39	18.28			
5	64QAM	25	0	18.21	18.24	18.22			



Band 17								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23790	23790	23890		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	17.51	17.56	17.50		
10	QPSK	1	25	17.35	17.25	17.25	18.5	0
10	QPSK	1	49	17.18	17.11	17.09		
10	QPSK	25	0	17.33	17.38	17.31		
10	QPSK	25	12	17.20	17.15	17.18	18.5	0
10	QPSK	25	25	17.25	17.22	17.18		
10	QPSK	50	0	17.32	17.32	17.22		
10	16QAM	1	0	17.46	17.51	17.41		
10	16QAM	1	25	17.45	17.45	17.45	18.5	0
10	16QAM	1	49	17.52	17.55	17.50		
10	16QAM	25	0	17.20	17.23	17.18		
10	16QAM	25	12	17.28	17.23	17.22	18.5	0
10	16QAM	25	25	17.21	17.25	17.29		
10	16QAM	50	0	17.26	17.24	17.21		
10	64QAM	1	0	17.39	17.20	17.25		
10	64QAM	1	25	17.42	17.43	17.43	18.5	0
10	64QAM	1	49	17.45	17.42	17.48		
10	64QAM	25	0	17.28	17.24	17.28		
10	64QAM	25	12	17.29	17.21	17.21	18.5	0
10	64QAM	25	25	17.28	17.26	17.36		
10	64QAM	50	0	17.29	17.29	17.26		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	17.32	17.49	17.42		
5	QPSK	1	12	17.34	17.25	17.23	18.5	0
5	QPSK	1	24	17.14	17.11	17.08		
5	QPSK	12	0	17.31	17.30	17.25		
5	QPSK	12	7	17.17	17.07	17.11	18.5	0
5	QPSK	12	13	17.17	17.21	17.11		
5	QPSK	25	0	17.32	17.23	17.19		
5	16QAM	1	0	17.52	17.47	17.39		
5	16QAM	1	12	17.43	17.38	17.43	18.5	0
5	16QAM	1	24	17.43	17.45	17.42		
5	16QAM	12	0	17.19	17.17	17.09		
5	16QAM	12	7	17.19	17.21	17.19	18.5	0
5	16QAM	12	13	17.16	17.16	17.21		
5	16QAM	25	0	17.18	17.23	17.21		
5	64QAM	1	0	17.29	17.18	17.24	18.5	0
5	64QAM	1	12	17.39	17.39	17.35		
5	64QAM	1	24	17.40	17.33	17.42		
5	64QAM	12	0	17.23	17.21	17.25		
5	64QAM	12	7	17.19	17.16	17.15	18.5	0
5	64QAM	12	13	17.22	17.18	17.25		
5	64QAM	25	0	17.29	17.28	17.22		



Band 17_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23790	23790	23890		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	16.87	16.77	16.65		
10	QPSK	1	25	16.50	16.44	16.36	17.5	0
10	QPSK	1	49	16.36	16.31	16.33		
10	QPSK	25	0	16.51	16.67	16.61		
10	QPSK	25	12	16.44	16.34	16.35	17.5	0
10	QPSK	25	25	16.39	16.34	16.36		
10	QPSK	50	0	16.55	16.63	16.54		
10	16QAM	1	0	16.72	16.58	16.61		
10	16QAM	1	25	16.65	16.58	16.65	17.5	0
10	16QAM	1	49	16.68	16.73	16.63		
10	16QAM	25	0	16.36	16.38	16.36		
10	16QAM	25	12	16.45	16.33	16.32	17.5	0
10	16QAM	25	25	16.44	16.42	16.38		
10	16QAM	50	0	16.48	16.46	16.36		
10	64QAM	1	0	16.59	16.42	16.46		
10	64QAM	1	25	16.60	16.59	16.61	17.5	0
10	64QAM	1	49	16.58	16.66	16.60		
10	64QAM	25	0	16.41	16.35	16.41		
10	64QAM	25	12	16.48	16.40	16.47	17.5	0
10	64QAM	25	25	16.43	16.45	16.50		
10	64QAM	50	0	16.50	16.53	16.35		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	16.50	16.67	16.62		
5	QPSK	1	12	16.36	16.37	16.34	17.5	0
5	QPSK	1	24	16.38	16.32	16.26		
5	QPSK	12	0	16.38	16.43	16.35		
5	QPSK	12	7	16.44	16.35	16.32	17.5	0
5	QPSK	12	13	16.39	16.28	16.28		
5	QPSK	25	0	16.31	16.35	16.27		
5	16QAM	1	0	16.72	16.63	16.59		
5	16QAM	1	12	16.65	16.59	16.56	17.5	0
5	16QAM	1	24	16.68	16.67	16.61		
5	16QAM	12	0	16.34	16.42	16.33		
5	16QAM	12	7	16.44	16.28	16.31	17.5	0
5	16QAM	12	13	16.37	16.40	16.40		
5	16QAM	25	0	16.35	16.46	16.31		
5	64QAM	1	0	16.44	16.44	16.44		
5	64QAM	1	12	16.59	16.48	16.41	17.5	0
5	64QAM	1	24	16.59	16.58	16.57		
5	64QAM	12	0	16.29	16.40	16.40		
5	64QAM	12	7	16.41	16.35	16.37	17.5	0
5	64QAM	12	13	16.46	16.43	16.37		
5	64QAM	25	0	16.37	16.40	16.41		



Band 25						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 26160	Power Middle Ch. / Freq. 26340	Power High Ch. / Freq. 26520
Channel				26160	26340	26520
Frequency (MHz)				1800	1880	1905
20	QPSK	1	0	14.92	14.78	14.62
20	QPSK	1	49	14.75	14.75	14.79
20	QPSK	1	99	14.61	14.67	14.65
20	QPSK	50	0	14.88	14.72	14.79
20	QPSK	50	24	14.66	14.71	14.75
20	QPSK	50	50	14.66	14.82	14.74
20	QPSK	100	0	14.79	14.67	14.72
20	16QAM	1	0	14.91	14.81	14.91
20	16QAM	1	49	14.87	14.77	14.82
20	16QAM	1	99	14.77	14.75	14.87
20	16QAM	50	0	14.66	14.84	14.78
20	16QAM	50	24	14.70	14.66	14.84
20	16QAM	50	50	14.72	14.67	14.80
20	16QAM	100	0	14.81	14.81	14.66
20	64QAM	1	0	14.82	14.70	14.89
20	64QAM	1	49	14.74	14.70	14.88
20	64QAM	1	99	14.77	14.71	14.87
20	64QAM	50	0	14.72	14.84	14.79
20	64QAM	50	24	14.76	14.70	14.88
20	64QAM	50	50	14.69	14.66	14.84
20	64QAM	100	0	14.72	14.66	14.73
Channel				26115	26340	26515
Frequency (MHz)				1857.5	1880	1907.5
15	QPSK	1	0	14.73	14.76	14.66
15	QPSK	1	37	14.65	14.69	14.70
15	QPSK	1	74	14.61	14.67	14.60
15	QPSK	36	0	14.65	14.71	14.75
15	QPSK	36	20	14.59	14.66	14.77
15	QPSK	36	39	14.56	14.82	14.73
15	QPSK	75	0	14.83	14.80	14.62
15	16QAM	1	0	14.82	14.79	14.85
15	16QAM	1	37	14.79	14.72	14.80
15	16QAM	1	74	14.69	14.73	14.81
15	16QAM	36	0	14.65	14.58	14.69
15	16QAM	36	20	14.64	14.64	14.79
15	16QAM	36	39	14.64	14.66	14.74
15	16QAM	75	0	14.54	14.80	14.66
15	64QAM	1	0	14.81	14.61	14.89
15	64QAM	1	37	14.72	14.69	14.79
15	64QAM	1	74	14.70	14.85	14.85
15	64QAM	36	20	14.74	14.64	14.85
15	64QAM	36	39	14.69	14.66	14.82
15	64QAM	75	0	14.72	14.62	14.66
Channel				26090	26340	26640
Frequency (MHz)				1855	1880	1910
10	QPSK	1	0	14.74	14.68	14.65
10	QPSK	1	25	14.68	14.72	14.75
10	QPSK	1	49	14.52	14.66	14.57
10	QPSK	25	0	14.66	14.64	14.65
10	QPSK	25	12	14.59	14.62	14.79
10	QPSK	25	25	14.60	14.61	14.73
10	QPSK	50	0	14.84	14.67	14.68
10	16QAM	1	0	14.90	14.80	14.81
10	16QAM	1	25	14.86	14.73	14.82
10	16QAM	1	49	14.72	14.70	14.81
10	16QAM	25	0	14.65	14.61	14.75
10	16QAM	25	12	14.64	14.61	14.75
10	16QAM	25	25	14.65	14.67	14.78
10	16QAM	50	0	14.59	14.65	14.61
10	64QAM	1	0	14.73	14.62	14.81
10	64QAM	1	25	14.73	14.64	14.83
10	64QAM	1	49	14.73	14.84	14.81
10	64QAM	25	0	14.70	14.80	14.77
10	64QAM	25	12	14.72	14.68	14.84
10	64QAM	25	25	14.67	14.63	14.68
10	64QAM	50	0	14.62	14.66	14.71
Channel				26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5
5	QPSK	1	0	14.79	14.73	14.62
5	QPSK	1	12	14.7	14.65	14.79
5	QPSK	1	24	14.52	14.67	14.6
5	QPSK	12	0	14.66	14.66	14.61
5	QPSK	12	7	14.65	14.63	14.7
5	QPSK	12	13	14.66	14.57	14.68
5	QPSK	25	0	14.6	14.65	14.63
5	16QAM	1	0	14.89	14.71	14.9
5	16QAM	1	12	14.87	14.73	14.77
5	16QAM	1	24	14.7	14.66	14.84
5	16QAM	12	0	14.65	14.61	14.68
5	16QAM	12	7	14.67	14.57	14.77
5	16QAM	12	13	14.68	14.57	14.74
5	16QAM	25	0	14.6	14.54	14.63
5	64QAM	1	0	14.78	14.63	14.68
5	64QAM	1	12	14.7	14.62	14.78
5	64QAM	1	24	14.7	14.71	14.82
5	64QAM	12	0	14.71	14.56	14.76
5	64QAM	12	7	14.73	14.65	14.81
5	64QAM	12	13	14.66	14.61	14.81
5	64QAM	25	0	14.64	14.66	14.72
Channel				26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5
3	QPSK	1	0	14.81	14.73	14.90
3	QPSK	1	8	14.65	14.71	14.79
3	QPSK	1	14	14.61	14.67	14.64
3	QPSK	8	0	14.66	14.65	14.77
3	QPSK	8	4	14.61	14.69	14.79
3	QPSK	8	7	14.64	14.54	14.66
3	QPSK	15	0	14.81	14.67	14.65
3	16QAM	1	0	14.87	14.80	14.85
3	16QAM	1	8	14.83	14.68	14.74
3	16QAM	1	14	14.80	14.72	14.84
3	16QAM	8	0	14.59	14.59	14.77
3	16QAM	8	4	14.70	14.58	14.79
3	16QAM	8	7	14.72	14.58	14.78
3	16QAM	15	0	14.61	14.53	14.61
3	64QAM	1	0	14.75	14.70	14.86
3	64QAM	1	8	14.69	14.65	14.78
3	64QAM	1	14	14.77	14.64	14.83
3	64QAM	8	0	14.66	14.63	14.74
3	64QAM	8	4	14.67	14.68	14.87
3	64QAM	8	7	14.64	14.60	14.78
3	64QAM	15	0	14.69	14.56	14.69
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	14.76	14.75	14.67
1.4	QPSK	1	3	14.65	14.71	14.78
1.4	QPSK	1	5	14.53	14.67	14.59
1.4	QPSK	3	0	14.62	14.65	14.61
1.4	QPSK	3	1	14.65	14.63	14.71
1.4	QPSK	3	3	14.62	14.62	14.71
1.4	QPSK	6	0	14.67	14.63	14.65
1.4	16QAM	1	0	14.85	14.74	14.84
1.4	16QAM	1	3	14.83	14.77	14.82
1.4	16QAM	1	5	14.71	14.65	14.86
1.4	16QAM	3	0	14.61	14.54	14.75
1.4	16QAM	3	1	14.64	14.60	14.76
1.4	16QAM	3	3	14.66	14.62	14.72
1.4	16QAM	6	0	14.59	14.53	14.61
1.4	64QAM	1	0	14.80	14.69	14.87
1.4	64QAM	1	3	14.72	14.61	14.79
1.4	64QAM	1	5	14.76	14.71	14.79
1.4	64QAM	3	0	14.65	14.54	14.77
1.4	64QAM	3	1	14.66	14.69	14.80
1.4	64QAM	3	3	14.68	14.59	14.84
1.4	64QAM	6	0	14.63	14.66	14.69



Band 26								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26745	26865	26985		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	15.78	15.75	15.76		
15	QPSK	1	37	15.67	15.63	15.51	15.8	0
15	QPSK	1	74	15.66	15.58	15.39		
15	QPSK	36	0	15.63	15.69	15.68		
15	QPSK	36	20	15.64	15.68	15.68	15.8	0
15	QPSK	36	39	15.69	15.68	15.67		
15	QPSK	75	0	15.65	15.73	15.60		
15	16QAM	1	0	15.68	15.67	15.66		
15	16QAM	1	37	15.61	15.62	15.61	15.8	0
15	16QAM	1	74	15.65	15.69	15.65		
15	16QAM	36	0	15.64	15.68	15.68		
15	16QAM	36	20	15.65	15.70	15.67	15.8	0
15	16QAM	36	39	15.62	15.72	15.60		
15	16QAM	75	0	15.67	15.73	15.64		
15	64QAM	1	0	15.64	15.68	15.60		
15	64QAM	1	37	15.64	15.65	15.68	15.8	0
15	64QAM	1	74	15.61	15.63	15.67		
15	64QAM	36	0	15.66	15.64	15.72		
15	64QAM	36	20	15.65	15.60	15.76	15.8	0
15	64QAM	36	39	15.68	15.61	15.73		
15	64QAM	75	0	15.66	15.76	15.68		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	15.75	15.69	15.73		
10	QPSK	1	25	15.58	15.53	15.59	15.8	0
10	QPSK	1	49	15.56	15.49	15.50		
10	QPSK	25	0	15.72	15.71	15.77		
10	QPSK	25	12	15.69	15.73	15.69	15.8	0
10	QPSK	25	25	15.76	15.76	15.70		
10	QPSK	50	0	15.73	15.71	15.68		
10	16QAM	1	0	15.60	15.65	15.59		
10	16QAM	1	25	15.59	15.60	15.53	15.8	0
10	16QAM	1	49	15.63	15.67	15.67		
10	16QAM	25	0	15.70	15.71	15.75		
10	16QAM	25	12	15.60	15.63	15.66	15.8	0
10	16QAM	25	25	15.66	15.68	15.68		
10	16QAM	50	0	15.70	15.68	15.73		
10	64QAM	1	0	15.62	15.69	15.58		
10	64QAM	1	25	15.61	15.62	15.56	15.8	0
10	64QAM	1	49	15.53	15.60	15.61		
10	64QAM	25	0	15.59	15.64	15.54		
10	64QAM	25	12	15.69	15.71	15.70	15.8	0
10	64QAM	25	25	15.54	15.60	15.61		
10	64QAM	50	0	15.75	15.66	15.71		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	15.66	15.73	15.71		
5	QPSK	1	12	15.61	15.63	15.62	15.8	0
5	QPSK	1	24	15.58	15.53	15.59		
5	QPSK	12	0	15.77	15.73	15.77		
5	QPSK	12	7	15.72	15.67	15.69	15.8	0
5	QPSK	12	13	15.69	15.69	15.72		
5	QPSK	25	0	15.71	15.64	15.67		
5	16QAM	1	0	15.59	15.60	15.60		
5	16QAM	1	12	15.52	15.67	15.53	15.8	0
5	16QAM	1	24	15.66	15.69	15.69		
5	16QAM	12	0	15.70	15.75	15.68		
5	16QAM	12	7	15.62	15.70	15.64	15.8	0
5	16QAM	12	13	15.67	15.70	15.63		
5	16QAM	25	0	15.73	15.71	15.69		
5	64QAM	1	0	15.65	15.65	15.58		
5	64QAM	1	12	15.62	15.62	15.63	15.8	0
5	64QAM	1	24	15.61	15.67	15.58		
5	64QAM	12	0	15.67	15.63	15.58		
5	64QAM	12	7	15.74	15.73	15.62	15.8	0
5	64QAM	12	13	15.61	15.65	15.56		
5	64QAM	25	0	15.69	15.73	15.69		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	15.74	15.70	15.72		
3	QPSK	1	8	15.53	15.61	15.56	15.8	0
3	QPSK	1	14	15.58	15.57	15.50		
3	QPSK	8	0	15.74	15.74	15.73		
3	QPSK	8	4	15.69	15.75	15.71	15.8	0
3	QPSK	8	7	15.73	15.75	15.64		
3	QPSK	15	0	15.73	15.69	15.64		
3	16QAM	1	0	15.65	15.67	15.59		
3	16QAM	1	8	15.56	15.54	15.62	15.8	0
3	16QAM	1	14	15.69	15.66	15.69		
3	16QAM	8	0	15.76	15.77	15.71		
3	16QAM	8	4	15.63	15.66	15.64	15.8	0
3	16QAM	8	7	15.68	15.69	15.66		
3	16QAM	15	0	15.72	15.76	15.69		
3	64QAM	1	0	15.60	15.68	15.68		
3	64QAM	1	8	15.64	15.56	15.62	15.8	0
3	64QAM	1	14	15.57	15.67	15.63		
3	64QAM	8	0	15.64	15.61	15.58		
3	64QAM	8	4	15.72	15.76	15.71	15.8	0
3	64QAM	8	7	15.52	15.58	15.56		
3	64QAM	15	0	15.74	15.76	15.68		
Channel				26897	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	15.66	15.66	15.66		
1.4	QPSK	1	3	15.56	15.63	15.58	15.8	0
1.4	QPSK	1	5	15.51	15.50	15.56		
1.4	QPSK	3	0	15.74	15.70	15.69		
1.4	QPSK	3	1	15.74	15.75	15.68	15.8	0
1.4	QPSK	3	3	15.73	15.68	15.74		
1.4	QPSK	6	0	15.69	15.71	15.67		
1.4	16QAM	1	0	15.60	15.65	15.64		
1.4	16QAM	1	3	15.60	15.52	15.52	15.8	0
1.4	16QAM	1	5	15.61	15.67	15.69		
1.4	16QAM	3	0	15.74	15.77	15.69		
1.4	16QAM	3	1	15.63	15.67	15.69	15.8	0
1.4	16QAM	3	3	15.72	15.65	15.64		
1.4	16QAM	6	0	15.72	15.68	15.64		
1.4	64QAM	1	0	15.61	15.61	15.62	15.8	0
1.4	64QAM	1	3	15.61	15.63	15.57		
1.4	64QAM	1	5	15.56	15.54	15.62	15.8	0
1.4	64QAM	3	0	15.59	15.56	15.64		
1.4	64QAM	3	1	15.76	15.71	15.71		
1.4	64QAM	3	3	15.51	15.54	15.52		
1.4	64QAM	6	0	15.71	15.76	15.69	15.8	0



Band 26_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)	
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	14.35	14.30	14.27	15	
15	QPSK	1	37	14.32	14.25	14.15		
15	QPSK	1	74	14.28	14.18	14.02		
15	QPSK	36	0	14.33	14.28	14.23		
15	QPSK	36	20	14.19	14.28	14.28		
15	QPSK	36	39	14.29	14.28	14.23		
15	QPSK	75	0	14.30	14.17	14.21	15	
15	16QAM	1	0	14.23	14.25	14.28		
15	16QAM	1	37	14.23	14.18	14.16		
15	16QAM	1	74	14.26	14.27	14.23		
15	16QAM	36	0	14.23	14.23	14.32		
15	16QAM	36	20	14.25	14.32	14.30		
15	16QAM	36	39	14.23	14.29	14.18	15	
15	16QAM	75	0	14.29	14.33	14.22		
15	64QAM	1	0	14.27	14.32	14.25		
15	64QAM	1	37	14.26	14.25	14.29		
15	64QAM	1	74	14.24	14.28	14.30		
15	64QAM	36	0	14.25	14.28	14.28		
15	64QAM	36	20	14.28	14.15	14.37	15	
15	64QAM	36	39	14.28	14.16	14.28		
15	64QAM	75	0	14.31	14.31	14.28		
Channel				26740	26865	26990		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	14.22	14.29	14.23		15
10	QPSK	1	25	14.15	14.03	14.11		
10	QPSK	1	49	14.07	14.01	14.13		
10	QPSK	25	0	14.28	14.28	14.22		
10	QPSK	25	12	14.22	14.30	14.18		
10	QPSK	25	25	14.20	14.25	14.24		
10	QPSK	50	0	14.28	14.28	14.18	15	
10	16QAM	1	0	14.18	14.27	14.10		
10	16QAM	1	25	14.23	14.21	14.08		
10	16QAM	1	49	14.17	14.30	14.25		
10	16QAM	25	0	14.17	14.24	14.33		
10	16QAM	25	12	14.19	14.11	14.21		
10	16QAM	25	25	14.23	14.23	14.25	15	
10	16QAM	50	0	14.17	14.27	14.30		
10	64QAM	1	0	14.17	14.07	14.11		
10	64QAM	1	25	14.19	14.15	14.14		
10	64QAM	1	49	14.08	14.19	14.10		
10	64QAM	25	0	14.15	14.23	14.10		
10	64QAM	25	12	14.27	14.31	14.21	15	
10	64QAM	25	25	14.08	14.21	14.12		
10	64QAM	50	0	14.32	14.18	14.23		
Channel				26715	26865	27015		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	14.27	14.32	14.22		15
5	QPSK	1	12	14.15	14.21	14.13		
5	QPSK	1	24	14.08	14.11	14.08		
5	QPSK	12	0	14.32	14.28	14.24		
5	QPSK	12	7	14.24	14.21	14.27		
5	QPSK	12	13	14.28	14.29	14.21		
5	QPSK	25	0	14.28	14.22	14.20	15	
5	16QAM	1	0	14.19	14.15	14.17		
5	16QAM	1	12	14.04	14.20	14.08		
5	16QAM	1	24	14.29	14.29	14.21		
5	16QAM	12	0	14.33	14.25	14.24		
5	16QAM	12	7	14.20	14.20	14.17		
5	16QAM	12	13	14.26	14.21	14.16	15	
5	16QAM	25	0	14.23	14.17	14.17		
5	64QAM	1	0	14.13	14.26	14.14		
5	64QAM	1	12	14.15	14.09	14.12		
5	64QAM	1	24	14.17	14.18	14.13		
5	64QAM	12	0	14.21	14.10	14.12		
5	64QAM	12	7	14.33	14.33	14.09	15	
5	64QAM	12	13	14.17	14.17	14.06		
5	64QAM	25	0	14.16	14.31	14.22		
Channel				26705	26865	27025		
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	14.30	14.33	14.34		15
3	QPSK	1	8	14.04	14.06	14.10		
3	QPSK	1	14	14.11	14.10	14.07		
3	QPSK	8	0	14.33	14.28	14.33		
3	QPSK	8	4	14.29	14.29	14.28		
3	QPSK	8	7	14.28	14.28	14.13		
3	QPSK	15	0	14.34	14.23	14.13	15	
3	16QAM	1	0	14.23	14.24	14.10		
3	16QAM	1	8	14.19	14.08	14.16		
3	16QAM	1	14	14.31	14.13	14.24		
3	16QAM	8	0	14.32	14.30	14.26		
3	16QAM	8	4	14.22	14.20	14.22		
3	16QAM	8	7	14.26	14.27	14.18	15	
3	16QAM	15	0	14.31	14.16	14.23		
3	64QAM	1	0	14.15	14.29	14.22		
3	64QAM	1	8	14.18	14.08	14.14		
3	64QAM	1	14	14.10	14.05	14.22		
3	64QAM	8	0	14.23	14.22	14.10		
3	64QAM	8	4	14.29	14.31	14.29	15	
3	64QAM	8	7	14.05	14.12	14.13		
3	64QAM	15	0	14.30	14.28	14.23		
Channel				26897	26865	27033		
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	14.28	14.29	14.27		15
1.4	QPSK	1	3	14.09	14.22	14.11		
1.4	QPSK	1	5	14.03	14.08	14.12		
1.4	QPSK	3	0	14.25	14.24	14.22		
1.4	QPSK	3	1	14.34	14.28	14.16		
1.4	QPSK	3	3	14.28	14.23	14.28		
1.4	QPSK	6	0	14.28	14.22	14.23	15	
1.4	16QAM	1	0	14.21	14.21	14.16		
1.4	16QAM	1	3	14.14	14.07	14.14		
1.4	16QAM	1	5	14.14	14.28	14.21		
1.4	16QAM	3	0	14.22	14.33	14.22		
1.4	16QAM	3	1	14.17	14.30	14.25		
1.4	16QAM	3	3	14.28	14.23	14.11	15	
1.4	16QAM	6	0	14.26	14.22	14.13		
1.4	64QAM	1	0	14.18	14.12	14.16		
1.4	64QAM	1	3	14.06	14.28	14.19		
1.4	64QAM	1	5	14.14	14.12	14.10		
1.4	64QAM	3	0	14.18	14.05	14.21		
1.4	64QAM	3	1	14.34	14.28	14.20	15	
1.4	64QAM	3	3	14.04	14.06	14.04		
1.4	64QAM	6	0	14.29	14.30	14.25		



Band 30										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				2771.0						
Frequency (MHz)				2310						
10	QPSK	1	0		12.09					
10	QPSK	1	25		11.88			12.1	0	
10	QPSK	1	49		11.81					
10	QPSK	25	0		11.98					
10	QPSK	25	12		11.86			12.1	0	
10	QPSK	25	25		11.85					
10	QPSK	50	0		11.88					
10	16QAM	1	0		12.08					
10	16QAM	1	25		12.05			12.1	0	
10	16QAM	1	49		12.04					
10	16QAM	25	0		11.73					
10	16QAM	25	12		11.77			12.1	0	
10	16QAM	25	25		11.76					
10	16QAM	50	0		11.72					
10	64QAM	1	0		11.93					
10	64QAM	1	25		12.00			12.1	0	
10	64QAM	1	49		11.90					
10	64QAM	25	0		11.80					
10	64QAM	25	12		11.87			12.1	0	
10	64QAM	25	25		11.76					
10	64QAM	50	0		11.84					
Channel				2785.5			2771.0	2773.5		
Frequency (MHz)				2307.5			2310	2312.5		
5	QPSK	1	0	12.04	12.01	12.00				
5	QPSK	1	12	11.90	11.98	11.98		12.1	0	
5	QPSK	1	24	11.75	11.76	11.74				
5	QPSK	12	0	11.92	11.93	11.87				
5	QPSK	12	7	11.76	11.84	11.81		12.1	0	
5	QPSK	12	13	11.71	11.86	11.70				
5	QPSK	25	0	11.89	11.83	11.83				
5	16QAM	1	0	12.00	11.99	12.00				
5	16QAM	1	12	11.99	11.99	12.04		12.1	0	
5	16QAM	1	24	11.96	12.03	12.04				
5	16QAM	12	0	11.69	11.70	11.71				
5	16QAM	12	7	11.67	11.70	11.69		12.1	0	
5	16QAM	12	13	11.74	11.69	11.76				
5	16QAM	25	0	11.63	11.71	11.66				
5	64QAM	1	0	11.98	11.91	11.89				
5	64QAM	1	12	11.96	11.98	11.95		12.1	0	
5	64QAM	1	24	11.86	11.80	11.81				
5	64QAM	12	0	11.79	11.74	11.70				
5	64QAM	12	7	11.79	11.83	11.87		12.1	0	
5	64QAM	12	13	11.74	11.88	11.68				
5	64QAM	25	0	11.74	11.76	11.76				



Band 66												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				13072	13092	13092						
Frequency (MHz)				1720	1745	1770						
20	QPSK	1	0	12.80	12.75	12.56	12.8	0				
20	QPSK	1	49	12.70	12.65	12.55						
20	QPSK	1	99	12.67	12.64	12.57						
20	QPSK	50	0	12.54	12.38	12.27						
20	QPSK	50	24	12.53	12.38	12.22						
20	QPSK	50	50	12.43	12.30	12.02	12.8	0				
20	QPSK	100	0	12.42	12.30	12.23						
20	16QAM	1	0	12.79	12.74	12.55						
20	16QAM	1	49	12.65	12.58	12.38						
20	16QAM	1	99	12.63	12.48	12.24						
20	16QAM	50	0	12.52	12.39	12.26	12.8	0				
20	16QAM	50	24	12.50	12.36	12.24						
20	16QAM	50	50	12.42	12.29	12.04						
20	16QAM	100	0	12.47	12.33	12.23						
20	64QAM	1	0	12.69	12.65	12.55						
20	64QAM	1	49	12.61	12.54	12.34	12.8	0				
20	64QAM	1	99	12.63	12.44	12.15						
20	64QAM	50	0	12.63	12.47	12.35						
20	64QAM	50	24	12.61	12.45	12.33						
20	64QAM	50	50	12.55	12.38	12.14						
20	64QAM	100	0	12.57	12.43	12.26	12.8	0				
Channel				13097	13202	13267						
Frequency (MHz)				1717.5	1745	1772.5						
15	QPSK	1	0	12.71	12.75	12.47				12.8	0	
15	QPSK	1	37	12.68	12.60	12.47						
15	QPSK	1	74	12.63	12.55	12.25						
15	QPSK	36	0	12.48	12.38	12.15						
15	QPSK	36	20	12.43	12.29	12.22						
15	QPSK	36	39	12.41	12.26	11.97	12.8	0				
15	QPSK	75	0	12.38	12.25	12.21						
15	16QAM	1	0	12.73	12.74	12.50						
15	16QAM	1	37	12.61	12.50	12.38						
15	16QAM	1	74	12.55	12.42	12.15						
15	16QAM	36	0	12.42	12.33	12.25	12.8	0				
15	16QAM	36	20	12.42	12.33	12.14						
15	16QAM	36	39	12.35	12.19	11.97						
15	16QAM	75	0	12.40	12.33	12.16						
15	64QAM	1	0	12.69	12.67	12.45						
15	64QAM	1	37	12.55	12.44	12.29	12.8	0				
15	64QAM	1	74	12.57	12.40	12.10						
15	64QAM	36	20	12.55	12.35	12.24						
15	64QAM	36	39	12.48	12.38	12.04						
15	64QAM	75	0	12.51	12.38	12.19						
Channel				13022	13202	13262	12.8	0				
Frequency (MHz)				1715	1745	1775						
10	QPSK	1	0	12.73	12.68	12.53						
10	QPSK	1	25	12.63	12.65	12.48						
10	QPSK	1	49	12.60	12.55	12.54						
10	QPSK	25	0	12.52	12.38	12.21						
10	QPSK	25	12	12.48	12.35	12.12	12.8	0				
10	QPSK	25	25	12.34	12.21	11.98						
10	QPSK	50	0	12.39	12.28	12.15						
10	16QAM	1	0	12.78	12.71	12.50						
10	16QAM	1	25	12.61	12.49	12.38						
10	16QAM	1	49	12.62	12.46	12.17	12.8	0				
10	16QAM	25	0	12.48	12.37	12.19						
10	16QAM	25	12	12.42	12.35	12.23						
10	16QAM	25	25	12.39	12.28	12.00						
10	16QAM	50	0	12.38	12.25	12.13						
10	64QAM	1	0	12.63	12.56	12.51	12.8	0				
10	64QAM	1	25	12.54	12.48	12.27						
10	64QAM	1	49	12.58	12.34	12.15						
10	64QAM	25	0	12.63	12.37	12.33						
10	64QAM	25	12	12.60	12.38	12.27						
10	64QAM	25	25	12.45	12.38	12.06	12.8	0				
10	64QAM	50	0	12.53	12.37	12.25						
Channel				13197	13202	13267						
Frequency (MHz)				1712.5	1745	1777.5						
5	QPSK	1	0	12.79	12.70	12.56				12.8	0	
5	QPSK	1	12	12.65	12.59	12.48						
5	QPSK	1	24	12.65	12.60	12.47						
5	QPSK	12	0	12.50	12.38	12.21						
5	QPSK	12	7	12.44	12.35	12.12						
5	QPSK	12	13	12.34	12.30	11.97	12.8	0				
5	QPSK	25	0	12.38	12.29	12.20						
5	16QAM	1	0	12.74	12.69	12.54						
5	16QAM	1	12	12.61	12.50	12.28						
5	16QAM	1	24	12.60	12.40	12.21						
5	16QAM	12	0	12.43	12.39	12.22	12.8	0				
5	16QAM	12	7	12.46	12.30	12.22						
5	16QAM	12	13	12.34	12.25	11.98						
5	16QAM	25	0	12.38	12.29	12.17						
5	64QAM	1	0	12.59	12.57	12.48						
5	64QAM	1	12	12.53	12.45	12.32	12.8	0				
5	64QAM	1	24	12.63	12.44	12.14						
5	64QAM	12	0	12.60	12.37	12.32						
5	64QAM	12	7	12.61	12.38	12.28						
5	64QAM	12	13	12.53	12.34	12.06						
5	64QAM	25	0	12.54	12.37	12.19	12.8	0				
Channel				13197	13202	13267						
Frequency (MHz)				1711.5	1745	1778.5						
3	QPSK	1	0	12.71	12.67	12.50				12.8	0	
3	QPSK	1	8	12.65	12.61	12.50						
3	QPSK	1	14	12.67	12.61	12.57						
3	QPSK	8	0	12.47	12.38	12.21						
3	QPSK	8	4	12.53	12.30	12.16						
3	QPSK	8	7	12.39	12.21	11.93	12.8	0				
3	QPSK	15	0	12.33	12.28	12.22						
3	16QAM	1	0	12.73	12.68	12.54						
3	16QAM	1	8	12.56	12.49	12.28						
3	16QAM	1	14	12.59	12.42	12.21						
3	16QAM	8	0	12.50	12.29	12.19	12.8	0				
3	16QAM	8	4	12.45	12.36	12.16						
3	16QAM	8	7	12.38	12.25	11.98						
3	16QAM	15	0	12.42	12.27	12.16						
3	64QAM	1	0	12.61	12.68	12.48						
3	64QAM	1	8	12.62	12.48	12.27	12.8	0				
3	64QAM	1	14	12.62	12.38	12.10						
3	64QAM	8	0	12.62	12.38	12.33						
3	64QAM	8	4	12.60	12.38	12.29						
3	64QAM	8	7	12.50	12.37	12.08						
3	64QAM	15	0	12.54	12.35	12.18	12.8	0				
Channel				13179	13202	13265						
Frequency (MHz)				1710.7	1745	1779.3						
1.4	QPSK	1	0	12.77	12.75	12.51				12.8	0	
1.4	QPSK	1	3	12.68	12.57	12.48						
1.4	QPSK	1	5	12.58	12.57	12.57						
1.4	QPSK	3	0	12.52	12.38	12.21						
1.4	QPSK	3	1	12.52	12.36	12.13						
1.4	QPSK	3	3	12.40	12.29	12.02	12.8	0				
1.4	QPSK	6	0	12.33	12.24	12.17						
1.4	16QAM	1	0	12.73	12.74	12.51						
1.4	16QAM	1	3	12.61	12.65	12.30						
1.4	16QAM	1	5	12.62	12.42	12.23						
1.4	16QAM	3	0	12.49	12.33	12.23	12.8	0				
1.4	16QAM	3	1	12.43	12.35	12.16						
1.4	16QAM	3	3	12.36	12.20	12.00						
1.4	16QAM	6	0	12.38	12.31	12.14						
1.4	64QAM	1	0	12.62	12.63	12.47						
1.4	64QAM	1	3	12.56	12.52	12.28	12.8	0				
1.4	64QAM	1	5	12.63	12.41	12.08						
1.4	64QAM	3	0	12.54	12.45	12.28						
1.4	64QAM	3	1	12.51	12.45	12.28						
1.4	64QAM	3	3	12.51	12.35	12.15						
1.4	64QAM	6	0	12.47	12.41	12.21	12.8	0				



Band 71									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				13322	13322	13322			
Frequency (MHz)				673	683	688			
20	QPSK	1	0	18.58	18.43	18.48			
20	QPSK	1	49	18.27	18.28	18.43			
20	QPSK	1	99	18.20	18.21	18.29	18.9	0	
20	QPSK	50	0	18.30	18.24	18.26			
20	QPSK	50	24	18.29	18.16	18.19	18.9	0	
20	QPSK	50	50	18.28	18.23	18.21			
20	QPSK	100	0	18.23	18.12	18.11			
20	16QAM	1	0	18.57	18.38	18.47			
20	16QAM	1	49	18.43	18.42	18.41	18.9	0	
20	16QAM	1	99	18.43	18.36	18.33			
20	16QAM	50	0	18.27	18.20	18.17			
20	16QAM	50	24	18.30	18.22	18.20	18.9	0	
20	16QAM	50	50	18.28	18.23	18.22			
20	16QAM	100	0	18.26	18.12	18.12			
20	64QAM	1	0	18.40	18.32	18.30			
20	64QAM	1	49	18.24	18.31	18.21	18.9	0	
20	64QAM	1	99	18.32	18.25	18.24			
20	64QAM	50	0	18.25	18.19	18.20	18.9	0	
20	64QAM	50	24	18.29	18.21	18.20			
20	64QAM	50	50	18.28	18.22	18.23			
20	64QAM	100	0	18.27	18.13	18.12			
Channel				133197	133297	133397			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	18.51	18.39	18.48			
15	QPSK	1	37	18.22	18.17	18.41	18.9	0	
15	QPSK	1	74	18.14	18.20	18.29			
15	QPSK	36	0	18.24	18.23	18.23			
15	QPSK	36	20	18.23	18.13	18.15	18.9	0	
15	QPSK	36	39	18.25	18.14	18.12			
15	QPSK	75	0	18.21	18.09	18.04			
15	16QAM	1	0	18.48	18.33	18.40			
15	16QAM	1	37	18.42	18.40	18.39	18.9	0	
15	16QAM	1	74	18.36	18.31	18.27			
15	16QAM	36	0	18.27	18.17	18.08			
15	16QAM	36	20	18.28	18.14	18.19	18.9	0	
15	16QAM	36	39	18.20	18.20	18.16			
15	16QAM	75	0	18.22	18.10	18.05			
15	64QAM	1	0	18.39	18.27	18.29			
15	64QAM	1	37	18.18	18.31	18.12	18.9	0	
15	64QAM	1	74	18.30	18.20	18.18			
15	64QAM	36	0	18.18	18.18	18.18			
15	64QAM	36	20	18.19	18.20	18.12	18.9	0	
15	64QAM	36	39	18.25	18.21	18.23			
15	64QAM	75	0	18.17	18.13	18.11			
Channel				133172	133272	133422			
Frequency (MHz)				668	678	693			
10	QPSK	1	0	18.56	18.39	18.45			
10	QPSK	1	25	18.19	18.17	18.33	18.9	0	
10	QPSK	1	49	18.12	18.21	18.24			
10	QPSK	25	0	18.21	18.16	18.20			
10	QPSK	25	12	18.28	18.16	18.18	18.9	0	
10	QPSK	25	25	18.18	18.20	18.14			
10	QPSK	50	0	18.23	18.05	18.05			
10	16QAM	1	0	18.55	18.33	18.37			
10	16QAM	1	25	18.36	18.40	18.39	18.9	0	
10	16QAM	1	49	18.36	18.28	18.28			
10	16QAM	25	0	18.26	18.10	18.10			
10	16QAM	25	12	18.30	18.17	18.14	18.9	0	
10	16QAM	25	25	18.25	18.19	18.12			
10	16QAM	50	0	18.22	18.02	18.05			
10	64QAM	1	0	18.39	18.28	18.29			
10	64QAM	1	25	18.15	18.29	18.21	18.9	0	
10	64QAM	1	49	18.28	18.24	18.22			
10	64QAM	25	0	18.19	18.18	18.17	18.9	0	
10	64QAM	25	12	18.19	18.11	18.18			
10	64QAM	25	25	18.20	18.15	18.15			
10	64QAM	50	0	18.19	18.08	18.02			
Channel				133147	133247	133447			
Frequency (MHz)				665.5	675.5	695.5			
5	QPSK	1	0	18.57	18.34	18.47			
5	QPSK	1	12	18.26	18.17	18.38	18.9	0	
5	QPSK	1	24	18.15	18.12	18.20			
5	QPSK	12	0	18.29	18.18	18.25			
5	QPSK	12	7	18.27	18.12	18.17	18.9	0	
5	QPSK	12	13	18.21	18.19	18.13			
5	QPSK	25	0	18.18	18.12	18.08			
5	16QAM	1	0	18.49	18.35	18.40			
5	16QAM	1	12	18.37	18.42	18.34	18.9	0	
5	16QAM	1	24	18.42	18.33	18.30			
5	16QAM	12	0	18.23	18.20	18.12			
5	16QAM	12	7	18.25	18.13	18.20	18.9	0	
5	16QAM	12	13	18.26	18.13	18.14			
5	16QAM	25	0	18.17	18.02	18.02			
5	64QAM	1	0	18.38	18.30	18.24			
5	64QAM	1	12	18.17	18.30	18.18	18.9	0	
5	64QAM	1	24	18.25	18.21	18.23			
5	64QAM	12	0	18.15	18.13	18.11			
5	64QAM	12	7	18.28	18.12	18.13	18.9	0	
5	64QAM	12	13	18.24	18.21	18.16			
5	64QAM	25	0	18.18	18.03	18.07			



Band 71_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up (dBm)	MPR (dB)	
Channel				13322	13322	13322			
Frequency (MHz)				673	683	688			
20	QPSK	1	0	16.63	16.03	16.47			
20	QPSK	1	49	16.32	16.31	16.48	17	0	
20	QPSK	1	99	16.25	16.26	16.34			
20	QPSK	50	0	16.58	16.52	16.23			
20	QPSK	50	24	16.34	16.21	16.24	17	0	
20	QPSK	50	50	16.33	16.28	16.26			
20	QPSK	100	0	16.56	16.50	16.40			
20	16QAM	1	0	16.62	16.43	16.52			
20	16QAM	1	49	16.46	16.47	16.46	17	0	
20	16QAM	1	99	16.48	16.41	16.38			
20	16QAM	50	0	16.32	16.25	16.22			
20	16QAM	50	24	16.35	16.27	16.25	17	0	
20	16QAM	50	50	16.33	16.28	16.27			
20	16QAM	100	0	16.31	16.17	16.17			
20	64QAM	1	0	16.45	16.37	16.35			
20	64QAM	1	49	16.29	16.36	16.28	17	0	
20	64QAM	1	99	16.37	16.30	16.29			
20	64QAM	50	0	16.30	16.24	16.25			
20	64QAM	50	24	16.34	16.26	16.25	17	0	
20	64QAM	50	50	16.33	16.27	16.28			
20	64QAM	100	0	16.32	16.18	16.17			
Channel				133197	133297	133397			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	16.56	16.44	16.53			
15	QPSK	1	37	16.27	16.22	16.46	17	0	
15	QPSK	1	74	16.19	16.25	16.34			
15	QPSK	36	0	16.28	16.28	16.28			
15	QPSK	36	20	16.28	16.18	16.20	17	0	
15	QPSK	36	39	16.30	16.19	16.17			
15	QPSK	75	0	16.26	16.14	16.09			
15	16QAM	1	0	16.53	16.38	16.45			
15	16QAM	1	37	16.47	16.45	16.38	17	0	
15	16QAM	1	74	16.41	16.36	16.32			
15	16QAM	36	0	16.32	16.22	16.13			
15	16QAM	36	20	16.33	16.19	16.24	17	0	
15	16QAM	36	39	16.25	16.25	16.21			
15	16QAM	75	0	16.27	16.15	16.10			
15	64QAM	1	0	16.44	16.32	16.34			
15	64QAM	1	37	16.23	16.36	16.17	17	0	
15	64QAM	1	74	16.35	16.25	16.23			
15	64QAM	36	0	16.23	16.23	16.23			
15	64QAM	36	20	16.24	16.25	16.17	17	0	
15	64QAM	36	39	16.30	16.25	16.28			
15	64QAM	75	0	16.22	16.18	16.16			
Channel				133172	133272	133422			
Frequency (MHz)				668	678	693			
10	QPSK	1	0	16.61	16.44	16.50			
10	QPSK	1	25	16.24	16.22	16.38	17	0	
10	QPSK	1	49	16.17	16.26	16.29			
10	QPSK	25	0	16.26	16.21	16.25			
10	QPSK	25	12	16.33	16.21	16.23	17	0	
10	QPSK	25	25	16.23	16.25	16.19			
10	QPSK	50	0	16.28	16.10	16.10			
10	16QAM	1	0	16.60	16.38	16.42			
10	16QAM	1	25	16.41	16.45	16.44	17	0	
10	16QAM	1	49	16.41	16.33	16.33			
10	16QAM	25	0	16.31	16.15	16.15			
10	16QAM	25	12	16.35	16.22	16.19	17	0	
10	16QAM	25	25	16.30	16.24	16.17			
10	16QAM	50	0	16.27	16.07	16.10			
10	64QAM	1	0	16.44	16.31	16.34			
10	64QAM	1	25	16.20	16.34	16.28	17	0	
10	64QAM	1	49	16.33	16.29	16.27			
10	64QAM	25	0	16.24	16.23	16.22			
10	64QAM	25	12	16.24	16.16	16.23	17	0	
10	64QAM	25	25	16.25	16.20	16.20			
10	64QAM	50	0	16.24	16.13	16.07			
Channel				133147	133247	133447			
Frequency (MHz)				665.5	675.5	695.5			
5	QPSK	1	0	16.62	16.39	16.52			
5	QPSK	1	12	16.31	16.22	16.43	17	0	
5	QPSK	1	24	16.20	16.17	16.25			
5	QPSK	12	0	16.34	16.23	16.31			
5	QPSK	12	7	16.32	16.17	16.22	17	0	
5	QPSK	12	13	16.26	16.24	16.18			
5	QPSK	25	0	16.23	16.17	16.11			
5	16QAM	1	0	16.54	16.40	16.45			
5	16QAM	1	12	16.42	16.47	16.39	17	0	
5	16QAM	1	24	16.47	16.38	16.35			
5	16QAM	12	0	16.28	16.25	16.17			
5	16QAM	12	7	16.30	16.18	16.25	17	0	
5	16QAM	12	13	16.31	16.18	16.19			
5	16QAM	25	0	16.22	16.07	16.07			
5	64QAM	1	0	16.43	16.35	16.29			
5	64QAM	1	12	16.22	16.35	16.23	17	0	
5	64QAM	1	24	16.30	16.26	16.28			
5	64QAM	12	0	16.20	16.18	16.18			
5	64QAM	12	7	16.33	16.17	16.18	17	0	
5	64QAM	12	13	16.29	16.26	16.21			
5	64QAM	25	0	16.23	16.08	16.12			



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.95	24.98	24.72			
20	QPSK	1	49	24.77	24.83	24.50	25	0	
20	QPSK	1	99	24.74	24.58	24.29			
20	QPSK	50	0	23.83	23.88	23.75			
20	QPSK	50	24	23.96	23.92	23.63	24	1	
20	QPSK	50	50	23.85	23.78	23.45			
20	QPSK	100	0	23.89	23.89	23.63			
20	16QAM	1	0	23.84	23.77	23.77			
20	16QAM	1	49	23.92	23.83	23.62	24	1	
20	16QAM	1	99	23.91	23.67	23.34			
20	16QAM	50	0	22.85	22.80	22.80			
20	16QAM	50	24	22.88	22.92	22.68	23	2	
20	16QAM	50	50	22.90	22.79	22.47			
20	16QAM	100	0	22.82	22.91	22.64			
20	64QAM	1	0	22.09	22.13	22.03			
20	64QAM	1	49	22.02	22.21	22.11	23	2	
20	64QAM	1	99	22.07	22.20	21.78			
20	64QAM	50	0	21.53	21.57	21.39			
20	64QAM	50	24	21.49	21.55	21.31	22	3	
20	64QAM	50	50	21.42	21.47	21.12			
20	64QAM	100	0	21.35	21.38	21.08			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.91	24.89	24.68			
15	QPSK	1	37	24.72	24.79	24.41	25	0	
15	QPSK	1	74	24.72	24.54	24.28			
15	QPSK	36	0	23.95	23.94	23.66			
15	QPSK	36	20	23.95	23.92	23.60	24	1	
15	QPSK	36	39	23.85	23.76	23.42			
15	QPSK	75	0	23.83	23.81	23.61			
15	16QAM	1	0	23.92	23.91	23.76			
15	16QAM	1	37	23.94	23.75	23.56	24	1	
15	16QAM	1	74	23.84	23.65	23.25			
15	16QAM	36	0	22.89	22.86	22.74			
15	16QAM	36	20	22.88	22.91	22.63	23	2	
15	16QAM	36	39	22.82	22.73	22.40			
15	16QAM	75	0	22.85	22.86	22.60			
15	64QAM	1	0	22.08	22.07	22.02			
15	64QAM	1	37	21.93	22.12	22.02	23	2	
15	64QAM	1	74	21.97	22.18	21.68			
15	64QAM	36	0	21.52	21.55	21.31			
15	64QAM	36	20	21.42	21.53	21.30	22	3	
15	64QAM	36	39	21.34	21.45	21.08			
15	64QAM	75	0	21.28	21.31	20.98			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.95	24.96	24.62			
10	QPSK	1	25	24.76	24.83	24.42	25	0	
10	QPSK	1	49	24.84	24.54	24.22			
10	QPSK	25	0	24.00	23.91	23.65			
10	QPSK	25	12	23.86	23.92	23.63	24	1	
10	QPSK	25	25	23.77	23.73	23.45			
10	QPSK	50	0	23.88	23.89	23.63			
10	16QAM	1	0	23.93	23.95	23.71			
10	16QAM	1	25	23.94	23.77	23.46	24	1	
10	16QAM	1	49	23.83	23.66	23.30			
10	16QAM	25	0	22.92	23.00	22.74			
10	16QAM	25	12	22.82	22.84	22.59	23	2	
10	16QAM	25	25	22.91	22.76	22.42			
10	16QAM	50	0	22.89	22.88	22.60			
10	64QAM	1	0	22.05	22.12	21.94			
10	64QAM	1	25	22.02	22.12	22.07	23	2	
10	64QAM	1	49	22.00	22.19	21.77			
10	64QAM	25	0	21.51	21.55	21.30			
10	64QAM	25	12	21.41	21.51	21.30	22	3	
10	64QAM	25	25	21.34	21.42	21.11			
10	64QAM	50	0	21.33	21.38	21.02			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.88	24.91	24.63			
5	QPSK	1	12	24.76	24.81	24.48	25	0	
5	QPSK	1	24	24.68	24.50	24.26			
5	QPSK	12	0	23.92	24.00	23.69			
5	QPSK	12	7	23.86	23.91	23.55	24	1	
5	QPSK	12	13	23.78	23.77	23.38			
5	QPSK	25	0	23.83	23.83	23.61			
5	16QAM	1	0	23.94	23.91	23.68			
5	16QAM	1	12	23.92	23.80	23.56	24	1	
5	16QAM	1	24	23.86	23.65	23.27			
5	16QAM	12	0	22.94	22.90	22.76			
5	16QAM	12	7	22.83	22.85	22.61	23	2	
5	16QAM	12	13	22.87	22.77	22.41			
5	16QAM	25	0	22.88	22.83	22.60			
5	64QAM	1	0	22.02	22.04	21.96			
5	64QAM	1	12	21.96	22.21	22.04	23	2	
5	64QAM	1	24	21.98	22.10	21.75			
5	64QAM	12	0	21.48	21.50	21.35			
5	64QAM	12	7	21.45	21.51	21.21	22	3	
5	64QAM	12	13	21.35	21.38	21.03			
5	64QAM	25	0	21.28	21.38	20.97			



Band 41										
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	40195	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.94	24.86	24.98	24.45	23.81	25	0
20	QPSK	1	49	24.83	24.90	24.85	24.29	23.70		
20	QPSK	1	99	24.71	24.93	24.74	24.28	23.72		
20	QPSK	50	0	23.82	23.88	23.91	23.48	22.88	24	1
20	QPSK	50	24	23.82	23.83	23.90	23.45	22.87		
20	QPSK	50	50	23.80	23.84	23.87	23.40	22.72		
20	QPSK	100	0	23.86	23.89	23.90	23.45	22.84	24	1
20	16QAM	1	0	23.86	23.89	23.86	23.53	22.89		
20	16QAM	1	49	23.88	23.81	23.88	23.34	22.76		
20	16QAM	1	99	23.81	23.90	23.80	23.35	22.75	23	2
20	16QAM	50	0	22.90	22.86	22.82	22.52	21.93		
20	16QAM	50	24	22.81	22.86	22.83	22.48	21.91		
20	16QAM	50	50	22.87	22.84	22.83	22.44	21.79	22	3
20	16QAM	100	0	22.90	22.88	22.86	22.48	21.87		
20	64QAM	1	0	22.82	22.45	22.78	22.00	21.13		
20	64QAM	1	49	22.45	22.46	22.48	21.90	21.09	23	2
20	64QAM	1	99	22.41	22.49	22.39	21.30	21.15		
20	64QAM	50	0	21.84	21.82	21.92	21.42	20.72		
20	64QAM	50	24	21.87	21.86	21.83	21.32	20.74	22	3
20	64QAM	50	50	21.82	21.86	21.84	21.14	20.70		
20	64QAM	100	0	21.90	21.85	21.81	21.27	20.65		
Channel				39725	40173	40620	41058	41515		
Frequency (MHz)				2503.5	2546.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.78	24.85	24.86	24.35	23.77	25	0
15	QPSK	1	37	24.76	24.83	24.84	24.24	23.62		
15	QPSK	1	74	24.70	24.81	24.67	24.20	23.71		
15	QPSK	36	0	23.95	23.78	23.86	23.47	22.79	24	1
15	QPSK	36	20	23.96	23.75	23.90	23.37	22.80		
15	QPSK	36	39	23.86	23.87	23.80	23.39	22.68		
15	QPSK	75	0	23.78	23.86	23.98	23.35	22.77	24	1
15	16QAM	1	0	23.86	23.79	23.76	23.48	22.63		
15	16QAM	1	37	23.80	23.80	23.87	23.34	22.67		
15	16QAM	1	74	23.79	23.89	23.78	23.28	22.71	23	2
15	16QAM	36	0	22.90	22.84	22.75	22.46	21.84		
15	16QAM	36	20	22.77	22.76	22.75	22.40	21.83		
15	16QAM	36	39	22.86	22.78	22.79	22.38	21.79	22	3
15	16QAM	75	0	22.81	22.83	22.83	22.47	21.80		
15	64QAM	1	0	22.58	22.36	22.68	21.90	21.13		
15	64QAM	1	37	22.39	22.38	22.47	21.86	21.07	23	2
15	64QAM	1	74	22.41	22.42	22.37	21.24	21.08		
15	64QAM	36	0	21.81	21.80	21.88	21.34	20.63		
15	64QAM	36	20	21.87	21.77	21.81	21.30	20.65	22	3
15	64QAM	36	39	21.78	21.83	21.80	21.12	20.67		
15	64QAM	75	0	21.88	21.77	21.77	21.27	20.57		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	24.80	24.76	24.83	24.42	23.71	25	0
10	QPSK	1	25	24.75	24.69	24.82	24.25	23.66		
10	QPSK	1	49	24.70	24.81	24.66	24.28	23.68		
10	QPSK	25	0	23.95	23.78	23.82	23.44	22.77	24	1
10	QPSK	25	12	23.88	23.73	23.87	23.41	22.82		
10	QPSK	25	25	23.81	23.81	23.81	23.40	22.70		
10	QPSK	50	0	23.84	23.84	23.90	23.43	22.78	24	1
10	16QAM	1	0	23.82	23.84	23.76	23.51	22.85		
10	16QAM	1	25	23.83	23.71	23.84	23.28	22.74		
10	16QAM	1	49	23.76	23.85	23.80	23.34	22.68	23	2
10	16QAM	25	0	22.86	22.82	22.78	22.43	21.88		
10	16QAM	25	12	22.76	22.77	22.74	22.40	21.84		
10	16QAM	25	25	22.78	22.82	22.74	22.40	21.71	22	3
10	16QAM	50	0	22.84	22.82	22.80	22.48	21.86		
10	64QAM	1	0	22.61	22.42	22.69	21.97	21.06		
10	64QAM	1	25	22.45	22.38	22.45	21.83	21.08	23	2
10	64QAM	1	49	22.32	22.42	22.39	21.29	21.11		
10	64QAM	25	0	21.83	21.79	21.92	21.41	20.69		
10	64QAM	25	12	21.85	21.81	21.76	21.25	20.72	22	3
10	64QAM	25	25	21.74	21.77	21.76	21.07	20.61		
10	64QAM	50	0	21.90	21.77	21.74	21.25	20.57		
Channel				39675	40148	40620	41093	41555		
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5		
5	QPSK	1	0	24.76	24.82	24.83	24.39	23.80	25	0
5	QPSK	1	12	24.82	24.90	24.85	24.22	23.65		
5	QPSK	1	24	24.82	24.76	24.67	24.28	23.64		
5	QPSK	12	0	23.93	23.80	23.84	23.47	22.77	24	1
5	QPSK	12	7	23.86	23.73	23.81	23.44	22.86		
5	QPSK	12	13	23.84	23.80	23.82	23.34	22.65		
5	QPSK	25	0	23.82	23.89	23.81	23.40	22.74	24	1
5	16QAM	1	0	23.84	23.88	23.84	23.47	22.85		
5	16QAM	1	12	23.81	23.79	23.81	23.25	22.68		
5	16QAM	1	24	23.73	23.84	23.72	23.33	22.86	23	2
5	16QAM	12	0	22.87	22.85	22.80	22.52	21.89		
5	16QAM	12	7	22.75	22.80	22.77	22.46	21.89		
5	16QAM	12	13	22.86	22.82	22.76	22.38	21.73	22	3
5	16QAM	25	0	22.87	22.83	22.83	22.38	21.84		
5	64QAM	1	0	22.55	22.44	22.78	21.93	21.05		
5	64QAM	1	12	22.41	22.40	22.41	21.90	21.09	23	2
5	64QAM	1	24	22.35	22.47	22.35	21.27	21.15		
5	64QAM	12	0	21.79	21.76	21.98	21.38	20.68		
5	64QAM	12	7	21.77	21.81	21.76	21.28	20.66	22	3
5	64QAM	12	13	21.77	21.81	21.80	21.11	20.61		
5	64QAM	25	0	21.87	21.79	21.72	21.23	20.61		



Band 41 HPUE										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	26.80	26.15	26.77	25.40	25.10	27	0
20	QPSK	1	49	26.48	25.53	26.73	25.15	25.02		
20	QPSK	1	99	26.57	25.99	26.68	25.04	25.06	26	1
20	QPSK	50	0	25.88	25.19	26.00	24.43	24.39		
20	QPSK	50	24	25.89	25.25	25.93	24.27	24.38	26	1
20	QPSK	50	50	25.85	25.35	25.79	24.07	24.25		
20	QPSK	100	0	25.89	25.28	25.87	24.32	24.24	26	1
20	16QAM	1	0	25.95	25.35	26.01	24.75	24.39		
20	16QAM	1	49	25.94	25.32	26.01	24.53	24.28	26	1
20	16QAM	1	99	25.96	25.35	25.96	24.13	24.10		
20	16QAM	50	0	25.14	24.29	25.09	23.57	23.48	25	2
20	16QAM	50	24	25.09	24.37	25.05	23.42	23.53		
20	16QAM	50	50	24.99	24.48	24.97	23.26	23.41	25	2
20	16QAM	100	0	23.91	23.34	24.85	23.39	23.35		
20	64QAM	1	0	23.94	23.44	23.98	23.16	23.11	25	2
20	64QAM	1	49	24.16	23.08	24.09	23.18	23.46		
20	64QAM	1	99	24.27	23.15	24.02	23.24	23.22	24	3
20	64QAM	50	0	23.35	22.35	23.27	22.63	22.24		
20	64QAM	50	24	23.47	22.49	23.24	22.52	22.31	24	3
20	64QAM	50	50	23.34	22.61	23.19	22.35	22.15		
20	64QAM	100	0	23.29	22.45	23.17	22.51	22.28		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	26.80	26.07	26.74	25.33	25.07	27	0
15	QPSK	1	37	26.43	25.90	26.69	25.08	24.98		
15	QPSK	1	74	26.51	25.97	26.54	25.00	25.05	26	1
15	QPSK	36	0	25.88	25.09	25.91	24.34	24.35		
15	QPSK	36	20	25.86	25.22	25.87	24.24	24.28	26	1
15	QPSK	36	39	25.82	25.35	25.69	24.06	24.24		
15	QPSK	75	0	25.94	25.19	25.83	24.30	24.23	26	1
15	16QAM	1	0	25.87	25.44	25.92	24.85	24.33		
15	16QAM	1	37	25.91	25.27	26.00	24.51	24.28	26	1
15	16QAM	1	74	25.90	25.27	25.76	24.13	24.07		
15	16QAM	36	0	25.13	24.25	25.09	23.49	23.38	25	2
15	16QAM	36	20	25.08	24.34	24.97	23.36	23.43		
15	16QAM	36	39	24.97	24.41	24.91	23.23	23.41	25	2
15	16QAM	75	0	24.99	24.33	24.89	23.29	23.31		
15	64QAM	1	0	23.93	23.43	23.88	23.12	23.02	25	2
15	64QAM	1	37	24.10	23.04	23.99	23.13	23.38		
15	64QAM	1	74	24.22	23.12	24.00	23.17	23.15	24	3
15	64QAM	36	0	23.35	22.35	23.22	22.54	22.16		
15	64QAM	36	20	23.38	22.49	23.15	22.49	22.24	24	3
15	64QAM	36	39	23.31	22.58	23.09	22.26	22.08		
15	64QAM	75	0	23.29	22.35	23.11	22.51	22.21		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	26.54	25.02	26.01	25.33	25.95	27	0
10	QPSK	1	25	26.32	25.77	26.69	25.08	24.84		
10	QPSK	1	49	26.41	25.92	26.50	24.85	24.95	26	1
10	QPSK	25	0	25.85	25.05	25.89	24.37	24.33		
10	QPSK	25	12	25.73	26.21	25.80	24.12	24.30	26	1
10	QPSK	25	25	25.75	25.25	25.65	23.96	24.09		
10	QPSK	50	0	25.83	25.25	25.75	24.19	24.04	26	1
10	16QAM	1	0	25.82	25.46	25.85	24.61	24.28		
10	16QAM	1	25	25.82	25.24	25.91	24.46	24.14	26	1
10	16QAM	1	49	25.90	25.19	25.80	24.04	23.97		
10	16QAM	25	0	25.02	24.13	24.98	23.52	23.35	25	2
10	16QAM	25	12	24.98	24.35	24.92	23.40	23.42		
10	16QAM	25	25	24.86	24.32	24.91	23.11	23.24	25	2
10	16QAM	50	0	24.85	24.31	24.89	23.32	23.25		
10	64QAM	1	0	23.81	23.38	23.84	23.09	23.04	25	2
10	64QAM	1	25	24.11	23.07	23.95	23.02	23.42		
10	64QAM	1	49	24.23	23.00	23.98	23.17	23.20	24	3
10	64QAM	25	0	23.21	22.99	23.11	22.57	22.19		
10	64QAM	25	12	23.45	22.39	23.23	22.44	22.15	24	3
10	64QAM	25	25	23.25	22.53	23.08	22.20	21.96		
10	64QAM	50	0	23.18	22.37	23.07	22.45	22.20		
Channel				39675	40148	40620	41093	41555		
Frequency (MHz)				2498.5	2545.3	2593	2640.3	2687.5		
5	QPSK	1	0	26.49	25.01	26.68	25.29	24.94	27	0
5	QPSK	1	12	26.32	25.79	26.63	25.02	24.87		
5	QPSK	1	24	26.37	25.81	26.42	24.92	24.98	26	1
5	QPSK	12	0	25.81	25.03	25.94	24.24	24.19		
5	QPSK	12	7	25.73	25.06	25.73	24.15	24.25	26	1
5	QPSK	12	13	25.68	25.25	25.60	23.91	24.16		
5	QPSK	25	0	25.71	25.12	25.78	24.15	24.08	26	1
5	16QAM	1	0	25.86	25.48	25.95	24.55	24.28		
5	16QAM	1	12	25.77	25.08	25.85	24.42	24.12	26	1
5	16QAM	1	24	25.88	25.25	25.68	23.93	23.95		
5	16QAM	12	0	25.00	24.10	24.69	23.48	23.32	25	2
5	16QAM	12	7	24.97	24.28	24.98	23.28	23.39		
5	16QAM	12	13	24.82	24.33	24.93	23.12	23.33	25	2
5	16QAM	25	0	24.91	24.21	24.72	23.28	23.22		
5	64QAM	1	0	23.78	23.24	23.73	23.04	23.05	25	2
5	64QAM	1	12	24.06	22.86	23.92	22.97	23.26		
5	64QAM	1	24	24.13	23.04	23.99	23.14	23.09	24	3
5	64QAM	12	0	23.19	22.18	23.12	22.49	22.01		
5	64QAM	12	7	23.42	22.39	23.08	22.28	22.19	24	3
5	64QAM	12	13	23.24	22.57	23.11	22.13	22.01		
5	64QAM	25	0	23.25	22.24	23.06	22.38	22.11		



Band 48									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	24.52	24.37	24.68	23.93		
20	QPSK	1	49	24.29	24.37	24.45	23.75	25	0
20	QPSK	1	99	24.31	24.54	24.41	23.77		
20	QPSK	50	0	23.44	23.43	23.67	22.96		
20	QPSK	50	24	23.49	23.54	23.64	22.95		
20	QPSK	50	50	23.41	23.57	23.51	22.89	24	1
20	QPSK	100	0	23.47	23.50	23.62	22.91		
20	16QAM	1	0	23.64	23.47	23.71	23.03		
20	16QAM	1	49	23.38	23.44	23.57	22.83	24	1
20	16QAM	1	99	23.39	23.65	23.53	22.89		
20	16QAM	50	0	22.48	22.46	22.69	21.98		
20	16QAM	50	24	22.48	22.55	22.65	21.97	23	2
20	16QAM	50	50	22.44	22.60	22.54	21.91		
20	16QAM	100	0	22.51	22.56	22.62	21.85		
20	64QAM	1	0	22.14	21.99	22.33	21.62		
20	64QAM	1	49	22.00	22.01	22.14	21.43	23	2
20	64QAM	1	99	22.02	22.26	22.12	22.29		
20	64QAM	50	0	21.48	21.47	21.70	21.02		
20	64QAM	50	24	21.52	21.89	21.67	20.97	22	3
20	64QAM	50	50	21.46	21.62	21.63	20.99		
20	64QAM	100	0	21.51	21.99	21.70	21.00		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	24.46	24.35	24.55	23.92		
15	QPSK	1	37	24.25	24.29	24.36	23.73	25	0
15	QPSK	1	74	24.28	24.33	24.33	23.72		
15	QPSK	36	0	23.34	23.34	23.66	22.89		
15	QPSK	36	20	23.47	23.52	23.62	22.86	24	1
15	QPSK	36	39	23.38	23.49	23.47	22.82		
15	QPSK	75	0	23.47	23.44	23.57	22.82		
15	16QAM	1	0	23.57	23.38	23.64	23.03		
15	16QAM	1	37	23.29	23.44	23.48	22.73	24	1
15	16QAM	1	74	23.37	23.64	23.50	22.84		
15	16QAM	36	0	22.47	22.45	22.59	21.92		
15	16QAM	36	20	22.42	22.54	22.58	21.96	23	2
15	16QAM	36	39	22.38	22.51	22.50	21.85		
15	16QAM	75	0	22.50	22.52	22.52	21.90		
15	64QAM	1	0	22.09	21.99	22.31	21.57		
15	64QAM	1	37	21.93	21.94	22.14	21.34	23	2
15	64QAM	1	74	21.97	22.19	22.07	22.26		
15	64QAM	36	0	21.38	21.41	21.70	20.98		
15	64QAM	36	20	21.47	21.54	21.67	20.93	22	3
15	64QAM	36	39	21.41	21.60	21.51	20.90		
15	64QAM	75	0	21.47	21.57	21.64	20.92		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565	3607.5	3642.5	3693		
10	QPSK	1	0	24.45	24.31	24.57	23.87		
10	QPSK	1	25	24.23	24.35	24.36	23.69	25	0
10	QPSK	1	49	24.26	24.47	24.33	23.74		
10	QPSK	25	0	23.36	23.40	23.66	22.96		
10	QPSK	25	12	23.47	23.46	23.61	22.86	24	1
10	QPSK	25	25	23.31	23.46	23.43	22.82		
10	QPSK	50	0	23.47	23.50	23.66	22.90		
10	16QAM	1	0	23.62	23.45	23.65	23.00		
10	16QAM	1	25	23.33	23.44	23.52	22.77	24	1
10	16QAM	1	49	23.31	23.63	23.46	22.84		
10	16QAM	25	0	22.44	22.41	22.66	21.95		
10	16QAM	25	12	22.42	22.52	22.60	21.89	23	2
10	16QAM	25	25	22.38	22.56	22.51	21.90		
10	16QAM	50	0	22.51	22.51	22.54	21.94		
10	64QAM	1	0	22.07	21.93	22.32	21.54		
10	64QAM	1	25	21.93	21.91	22.09	21.42	23	2
10	64QAM	1	49	22.00	22.24	22.12	22.25		
10	64QAM	25	0	21.43	21.41	21.70	20.98		
10	64QAM	25	12	21.51	21.51	21.64	20.88	22	3
10	64QAM	25	25	21.45	21.58	21.47	20.95		
10	64QAM	50	0	21.49	21.54	21.70	20.99		
Channel				55685	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3592.5	3607	3642	3692.5		
5	QPSK	1	0	24.46	24.31	24.50	23.91		
5	QPSK	1	12	24.25	24.35	24.45	23.69	25	0
5	QPSK	1	24	24.27	24.48	24.31	23.72		
5	QPSK	12	0	23.35	23.43	23.58	22.95		
5	QPSK	12	7	23.42	23.54	23.61	22.91	24	1
5	QPSK	12	13	23.37	23.48	23.42	22.86		
5	QPSK	25	0	23.38	23.41	23.62	22.84		
5	16QAM	1	0	23.54	23.40	23.65	23.03		
5	16QAM	1	12	23.38	23.39	23.54	22.78	24	1
5	16QAM	1	24	23.38	23.56	23.52	22.82		
5	16QAM	12	0	22.39	22.37	22.61	21.90		
5	16QAM	12	7	22.45	22.47	22.61	21.88	23	2
5	16QAM	12	13	22.41	22.57	22.51	21.85		
5	16QAM	25	0	22.42	22.53	22.54	21.85		
5	64QAM	1	0	22.13	21.94	22.26	21.56		
5	64QAM	1	12	21.97	22.01	22.09	21.40	23	2
5	64QAM	1	24	22.00	22.26	22.09	22.21		
5	64QAM	12	0	21.44	21.39	21.63	20.92		
5	64QAM	12	7	21.51	21.57	21.62	20.92	22	3
5	64QAM	12	13	21.37	21.57	21.50	20.92		
5	64QAM	25	0	21.44	21.52	21.61	20.93		



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.08	21.05	21.01	21.1	0	
20	QPSK	1	49	21.01	21.00	21.01			
20	QPSK	1	99	21.01	20.98	20.97			
20	QPSK	50	0	21.07	21.02	21.01	21.1	0	
20	QPSK	50	24	20.98	21.03	20.98			
20	QPSK	50	50	21.02	21.05	20.93			
20	QPSK	100	0	21.00	20.89	20.88	21.1	0	
20	16QAM	1	0	21.04	20.95	20.91			
20	16QAM	1	49	20.98	20.95	20.98			
20	16QAM	1	99	20.92	20.90	20.98	21.1	0	
20	16QAM	50	0	20.84	21.00	20.98			
20	16QAM	50	24	20.97	21.01	20.96			
20	16QAM	50	50	21.03	21.05	20.84	21.1	0	
20	16QAM	100	0	20.92	20.84	20.78			
20	64QAM	1	0	21.05	20.95	20.94			
20	64QAM	1	49	21.01	20.99	20.98	21.1	0	
20	64QAM	1	99	21.01	20.90	20.93			
20	64QAM	50	0	21.01	20.96	20.97			
20	64QAM	50	24	20.98	20.94	20.89	21.1	0	
20	64QAM	50	50	21.02	21.03	20.88			
20	64QAM	100	0	20.86	20.84	20.82			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	21.06	20.97	21.01	21.1	0	
15	QPSK	1	37	21.01	20.99	21.01			
15	QPSK	1	74	20.97	20.93	20.97			
15	QPSK	36	0	21.00	20.95	20.93	21.1	0	
15	QPSK	36	20	20.90	21.02	20.92			
15	QPSK	36	39	21.06	20.96	20.85			
15	QPSK	75	0	20.90	20.94	20.87	21.1	0	
15	16QAM	1	0	20.96	20.91	20.85			
15	16QAM	1	37	20.94	20.92	20.91			
15	16QAM	1	74	20.92	20.97	20.94	21.1	0	
15	16QAM	36	0	20.87	20.95	20.94			
15	16QAM	36	20	20.96	21.00	20.92			
15	16QAM	36	39	20.98	20.97	20.81	21.1	0	
15	16QAM	75	0	20.90	20.83	20.71			
15	64QAM	1	0	20.95	20.89	20.90			
15	64QAM	1	37	20.85	20.99	20.88	21.1	0	
15	64QAM	1	74	20.99	20.84	20.88			
15	64QAM	36	0	20.98	20.94	20.88			
15	64QAM	36	20	20.91	20.93	20.82	21.1	0	
15	64QAM	36	39	21.00	21.01	20.86			
15	64QAM	75	0	20.86	20.77	20.80			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	20.98	20.99	20.98	21.1	0	
10	QPSK	1	25	20.92	20.97	20.96			
10	QPSK	1	49	20.92	20.98	20.97			
10	QPSK	25	0	21.00	20.94	20.99	21.1	0	
10	QPSK	25	12	20.98	20.97	20.95			
10	QPSK	25	25	21.05	21.01	20.93			
10	QPSK	50	0	20.96	20.91	20.84	21.1	0	
10	16QAM	1	0	20.98	20.86	20.82			
10	16QAM	1	25	20.92	20.93	20.96			
10	16QAM	1	49	20.91	20.84	20.94	21.1	0	
10	16QAM	25	0	20.84	20.92	20.98			
10	16QAM	25	12	20.90	20.92	20.86			
10	16QAM	25	25	21.01	21.04	20.82	21.1	0	
10	16QAM	50	0	20.88	20.80	20.78			
10	64QAM	1	0	20.99	20.91	20.85			
10	64QAM	1	25	21.00	20.91	20.88	21.1	0	
10	64QAM	1	49	20.96	20.89	20.96			
10	64QAM	25	0	20.97	20.88	20.80			
10	64QAM	25	12	20.94	20.90	20.82	21.1	0	
10	64QAM	25	25	20.99	20.93	20.78			
10	64QAM	50	0	20.77	20.78	20.77			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	21.02	20.95	20.97	21.1	0	
5	QPSK	1	12	20.91	20.92	20.96			
5	QPSK	1	24	21.01	20.95	20.90			
5	QPSK	12	0	21.00	21.01	20.93	21.1	0	
5	QPSK	12	7	20.88	21.03	20.91			
5	QPSK	12	13	21.00	20.99	20.84			
5	QPSK	25	0	20.86	20.79	20.84	21.1	0	
5	16QAM	1	0	21.01	20.94	20.82			
5	16QAM	1	12	20.97	20.93	20.91			
5	16QAM	1	24	20.92	20.87	20.91	21.1	0	
5	16QAM	12	0	20.90	20.93	20.93			
5	16QAM	12	7	20.89	20.91	20.91			
5	16QAM	12	13	21.03	20.97	20.84	21.1	0	
5	16QAM	25	0	20.89	20.78	20.74			
5	64QAM	1	0	20.99	20.88	20.94			
5	64QAM	1	12	20.91	20.97	20.93	21.1	0	
5	64QAM	1	24	20.94	20.81	20.91			
5	64QAM	12	0	20.99	20.95	20.94			
5	64QAM	12	7	20.97	20.87	20.89	21.1	0	
5	64QAM	12	13	20.93	20.99	20.82			
5	64QAM	25	0	20.83	20.80	20.78			



Band 41										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40195	40620	41055	41490		
Frequency (MHz)				2508	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.73	21.05	21.06	20.78	21.08	21.1	0
20	QPSK	1	49	20.88	21.02	20.93	20.77	21.00		
20	QPSK	1	99	20.85	20.97	20.94	20.74	20.97		
20	QPSK	50	0	20.70	21.02	21.01	20.70	21.06		
20	QPSK	50	24	20.64	20.99	20.91	20.67	21.03	21.1	0
20	QPSK	50	50	20.65	21.00	20.88	20.69	20.92		
20	QPSK	100	0	20.65	20.99	20.91	20.68	21.00		
20	16QAM	1	0	20.69	20.81	20.80	20.76	20.92		
20	16QAM	1	49	20.82	20.85	20.81	20.68	21.04	21.1	0
20	16QAM	1	99	20.55	20.88	20.95	20.68	20.90		
20	16QAM	50	0	20.55	20.87	20.88	20.64	20.82		
20	16QAM	50	24	20.58	20.92	20.97	20.60	20.90		
20	16QAM	50	50	20.64	20.98	20.96	20.66	20.92	21.1	0
20	16QAM	100	0	20.55	20.98	20.81	20.60	20.97		
20	64QAM	1	0	20.64	20.78	20.72	20.70	20.83		
20	64QAM	1	49	20.64	20.87	20.87	20.77	21.04		
20	64QAM	1	99	20.62	20.91	20.94	20.73	21.01	21.1	0
20	64QAM	50	0	20.60	20.84	20.89	20.65	20.93		
20	64QAM	50	24	20.56	20.90	20.93	20.65	20.96		
20	64QAM	50	50	20.60	20.88	20.79	20.68	20.95		
20	64QAM	100	0	20.58	20.98	20.81	20.71	21.01		
Channel				39725	40173	40620	41068	41516	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.68	21.01	20.92	20.73	20.98	21.1	0
15	QPSK	1	37	20.83	20.95	21.01	20.76	21.00		
15	QPSK	1	74	20.55	20.93	20.93	20.71	21.00		
15	QPSK	38	0	20.60	21.00	20.95	20.65	20.95		
15	QPSK	38	20	20.64	21.03	20.94	20.63	20.91	21.1	0
15	QPSK	38	39	20.59	21.04	20.86	20.61	20.97		
15	QPSK	75	0	20.63	20.80	20.81	20.64	20.86		
15	16QAM	1	0	20.61	20.91	20.88	20.72	21.02		
15	16QAM	1	37	20.57	20.88	20.95	20.65	20.97	21.1	0
15	16QAM	1	74	20.55	20.83	20.90	20.66	20.91		
15	16QAM	38	0	20.49	20.96	20.89	20.62	20.94		
15	16QAM	38	20	20.54	20.96	20.89	20.57	20.91		
15	16QAM	38	39	20.64	20.99	20.76	20.59	21.02	21.1	0
15	16QAM	75	0	20.53	20.83	20.70	20.57	20.82		
15	64QAM	1	0	20.59	20.88	20.92	20.66	20.95		
15	64QAM	1	37	20.57	20.96	20.91	20.73	20.95		
15	64QAM	1	74	20.61	20.84	20.85	20.63	20.93	21.1	0
15	64QAM	38	0	20.58	20.94	20.92	20.57	20.97		
15	64QAM	38	20	20.47	20.84	20.92	20.53	20.88		
15	64QAM	38	39	20.55	20.94	20.80	20.65	21.01		
15	64QAM	75	0	20.56	20.79	20.78	20.67	20.76		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.64	20.95	20.91	20.75	21.05	21.1	0
10	QPSK	1	25	20.58	20.91	20.94	20.71	21.00		
10	QPSK	1	49	20.59	20.90	20.94	20.65	20.94		
10	QPSK	25	0	20.57	21.00	20.96	20.60	21.01		
10	QPSK	25	12	20.56	20.93	20.90	20.58	20.90	21.1	0
10	QPSK	25	25	20.61	20.99	20.92	20.59	20.97		
10	QPSK	50	0	20.65	20.86	20.96	20.64	20.88		
10	16QAM	1	0	20.69	20.92	20.81	20.70	20.98		
10	16QAM	1	25	20.55	20.93	20.89	20.60	20.95	21.1	0
10	16QAM	1	49	20.48	20.82	20.96	20.63	20.90		
10	16QAM	25	0	20.48	21.00	20.88	20.54	20.94		
10	16QAM	25	12	20.55	20.98	20.95	20.53	20.91		
10	16QAM	25	25	20.64	21.03	20.78	20.62	20.93	21.1	0
10	16QAM	50	0	20.45	20.81	20.78	20.59	20.91		
10	64QAM	1	0	20.59	20.92	20.93	20.66	21.04		
10	64QAM	1	25	20.54	20.90	20.88	20.70	20.99		
10	64QAM	1	49	20.58	20.80	20.92	20.68	20.91	21.1	0
10	64QAM	25	0	20.52	20.86	20.95	20.52	20.92		
10	64QAM	25	12	20.50	20.92	20.86	20.59	20.94		
10	64QAM	25	25	20.53	20.94	20.83	20.61	20.94		
10	64QAM	50	0	20.55	20.76	20.79	20.69	20.78		
Channel				39675	40148	40620	41093	41555	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.3	2593	2640.3	2687.5		
5	QPSK	1	0	20.73	20.97	20.98	20.68	20.98	21.1	0
5	QPSK	1	12	20.67	20.94	20.95	20.72	21.00		
5	QPSK	1	24	20.55	20.89	20.90	20.64	20.91		
5	QPSK	12	0	20.55	20.93	20.91	20.62	20.97		
5	QPSK	12	7	20.57	20.96	20.93	20.59	20.96	21.1	0
5	QPSK	12	13	20.65	21.00	20.88	20.64	21.06		
5	QPSK	25	0	20.57	20.81	20.84	20.67	20.88		
5	16QAM	1	0	20.62	20.93	20.87	20.73	20.97		
5	16QAM	1	12	20.59	20.94	20.96	20.64	20.97	21.1	0
5	16QAM	1	24	20.50	20.86	20.96	20.60	20.86		
5	16QAM	12	0	20.50	20.92	20.89	20.55	20.89		
5	16QAM	12	7	20.51	20.96	20.89	20.51	20.87		
5	16QAM	12	13	20.54	20.96	20.78	20.60	20.95	21.1	0
5	16QAM	25	0	20.53	20.78	20.77	20.56	20.90		
5	64QAM	1	0	20.58	20.88	20.87	20.66	20.98		
5	64QAM	1	12	20.54	20.89	20.94	20.76	20.94		
5	64QAM	1	24	20.60	20.83	20.92	20.65	20.97	21.1	0
5	64QAM	12	0	20.60	20.86	20.93	20.58	21.01		
5	64QAM	12	7	20.49	20.87	20.81	20.56	20.92		
5	64QAM	12	13	20.57	20.97	20.81	20.65	20.97		
5	64QAM	25	0	20.55	20.79	20.81	20.68	20.76		



Band 41 HPUE										
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.	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	22.58	22.22	22.58	22.18	22.65	22.7	0
20	QPSK	1	49	22.49	22.15	22.53	22.11	22.56		
20	QPSK	1	99	22.52	22.17	22.48	22.08	22.55		
20	QPSK	50	0	22.46	22.15	22.43	22.16	22.61	22.7	0
20	QPSK	50	24	22.44	22.07	22.46	22.02	22.52		
20	QPSK	50	50	22.45	22.13	22.39	21.99	22.51		
20	QPSK	100	0	22.38	22.06	22.40	22.06	22.51	22.7	0
20	16QAM	1	0	22.39	22.21	22.49	22.16	22.39		
20	16QAM	1	49	22.50	22.08	22.48	22.02	22.50		
20	16QAM	1	99	22.44	22.08	22.36	22.03	22.53	22.7	0
20	16QAM	50	0	22.39	22.13	22.42	22.17	22.47		
20	16QAM	50	24	22.43	22.15	22.35	22.05	22.45		
20	16QAM	50	50	22.38	22.10	22.45	22.06	22.43	22.7	0
20	16QAM	100	0	22.40	22.10	22.44	22.06	22.45		
20	64QAM	1	0	22.43	22.13	22.39	22.06	22.53		
20	64QAM	1	49	22.39	22.12	22.42	22.09	22.56	22.7	0
20	64QAM	1	99	22.40	22.02	22.45	22.01	22.49		
20	64QAM	50	0	22.45	22.05	22.34	21.97	22.41		
20	64QAM	50	24	22.49	22.11	22.46	22.02	22.57	22.7	0
20	64QAM	50	50	22.43	22.08	22.38	21.96	22.47		
20	64QAM	100	0	22.39	22.12	22.33	21.96	22.61		
Channel				39725	40173	40620	41068	41516	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2546.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.55	22.22	22.56	22.15	22.59	22.7	0
15	QPSK	1	37	22.45	22.13	22.45	22.08	22.50		
15	QPSK	1	74	22.46	22.10	22.41	22.05	22.49		
15	QPSK	36	0	22.41	22.05	22.36	22.16	22.58	22.7	0
15	QPSK	36	20	22.35	22.01	22.41	21.92	22.43		
15	QPSK	36	39	22.44	22.04	22.30	21.92	22.44		
15	QPSK	75	0	22.30	22.16	22.37	21.99	22.46	22.7	0
15	16QAM	1	0	22.32	22.14	22.45	22.15	22.56		
15	16QAM	1	37	22.40	22.08	22.41	22.00	22.50		
15	16QAM	1	74	22.38	22.07	22.36	21.93	22.52	22.7	0
15	16QAM	36	0	22.33	22.07	22.32	22.12	22.42		
15	16QAM	36	20	22.34	22.13	22.30	22.05	22.43		
15	16QAM	36	39	22.38	22.05	22.40	22.02	22.43	22.7	0
15	16QAM	75	0	22.40	22.07	22.44	21.98	22.44		
15	64QAM	1	0	22.35	22.07	22.31	22.06	22.52		
15	64QAM	1	37	22.31	22.02	22.32	22.08	22.54	22.7	0
15	64QAM	1	74	22.33	22.02	22.36	21.93	22.47		
15	64QAM	36	0	22.43	22.00	22.28	21.97	22.38		
15	64QAM	36	20	22.42	22.07	22.45	21.98	22.57	22.7	0
15	64QAM	36	39	22.34	22.03	22.38	21.89	22.47		
15	64QAM	75	0	22.34	22.09	22.29	21.91	22.40		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.50	22.20	22.68	22.16	22.59	22.7	0
10	QPSK	1	25	22.46	22.14	22.49	22.10	22.56		
10	QPSK	1	49	22.48	22.11	22.44	22.08	22.54		
10	QPSK	25	0	22.42	22.12	22.37	22.16	22.54	22.7	0
10	QPSK	25	12	22.41	21.97	22.39	22.02	22.52		
10	QPSK	25	25	22.38	22.12	22.31	21.96	22.47		
10	QPSK	50	0	22.29	22.11	22.39	21.96	22.45	22.7	0
10	16QAM	1	0	22.38	22.19	22.41	22.16	22.56		
10	16QAM	1	25	22.40	22.04	22.45	21.94	22.40		
10	16QAM	1	49	22.35	21.98	22.29	22.00	22.51	22.7	0
10	16QAM	25	0	22.32	22.12	22.34	22.09	22.42		
10	16QAM	25	12	22.42	22.14	22.28	21.96	22.36		
10	16QAM	25	25	22.38	22.05	22.36	21.96	22.38	22.7	0
10	16QAM	50	0	22.39	22.07	22.43	21.98	22.45		
10	64QAM	1	0	22.43	22.11	22.38	22.01	22.51		
10	64QAM	1	25	22.37	22.02	22.38	22.08	22.51	22.7	0
10	64QAM	1	49	22.34	21.93	22.40	21.83	22.41		
10	64QAM	25	0	22.41	22.02	22.33	21.94	22.39		
10	64QAM	25	12	22.44	22.10	22.40	22.01	22.53	22.7	0
10	64QAM	25	25	22.42	21.98	22.31	21.95	22.45		
10	64QAM	50	0	22.31	22.08	22.30	21.95	22.55		
Channel				39675	40148	40620	41093	41555	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.3	2593	2640.3	2687.5		
5	QPSK	1	0	22.49	22.12	22.57	22.17	22.61	22.7	0
5	QPSK	1	12	22.39	22.08	22.46	22.03	22.51		
5	QPSK	1	24	22.48	22.16	22.38	22.05	22.55		
5	QPSK	12	0	22.43	22.10	22.35	22.13	22.57	22.7	0
5	QPSK	12	7	22.42	22.07	22.42	21.97	22.52		
5	QPSK	12	13	22.35	22.11	22.38	21.94	22.43		
5	QPSK	25	0	22.30	22.06	22.30	22.03	22.41	22.7	0
5	16QAM	1	0	22.36	22.14	22.47	22.06	22.53		
5	16QAM	1	12	22.47	22.05	22.39	21.95	22.45		
5	16QAM	1	24	22.38	22.01	22.27	22.03	22.53	22.7	0
5	16QAM	12	0	22.30	22.11	22.42	22.07	22.44		
5	16QAM	12	7	22.39	22.08	22.28	21.97	22.43		
5	16QAM	12	13	22.28	22.10	22.40	22.01	22.37	22.7	0
5	16QAM	25	0	22.30	22.02	22.43	22.04	22.39		
5	64QAM	1	0	22.43	22.04	22.32	21.99	22.45		
5	64QAM	1	12	22.37	22.06	22.40	22.03	22.53	22.7	0
5	64QAM	1	24	22.36	21.94	22.44	21.92	22.39		
5	64QAM	12	0	22.43	21.97	22.32	21.90	22.32		
5	64QAM	12	7	22.49	22.03	22.43	21.97	22.52	22.7	0
5	64QAM	12	13	22.40	21.99	22.38	21.95	22.42		
5	64QAM	25	0	22.34	22.03	22.28	21.94	22.53		



Band 48 ANT 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low/Middle Ch. / Freq.	Power High/Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	20.29	20.75	20.67	21.02	21.3	0
20	QPSK	1	49	20.01	20.58	20.51	20.84		
20	QPSK	1	99	19.84	20.56	20.42	20.77		
20	QPSK	50	0	20.27	20.76	20.64	20.77		
20	QPSK	50	24	20.17	20.74	20.57	20.56	21.3	0
20	QPSK	50	50	20.01	20.65	20.56	20.56		
20	QPSK	100	0	20.09	20.67	20.55	20.71		
20	16QAM	1	0	20.35	20.83	20.72	20.57		
20	16QAM	1	49	20.03	20.61	20.51	20.53	21.3	0
20	16QAM	1	99	19.93	20.61	20.50	20.70		
20	16QAM	50	0	19.67	20.05	20.15	19.74		
20	16QAM	50	24	19.63	20.10	20.16	19.72	20.3	1
20	16QAM	50	50	19.44	20.08	20.14	19.71		
20	16QAM	100	0	19.41	20.00	20.02	19.64		
20	64QAM	1	0	18.52	18.94	18.98	18.54		
20	64QAM	1	49	18.46	18.89	18.96	18.44	19.3	2
20	64QAM	1	99	18.54	19.07	19.15	18.65		
20	64QAM	50	0	17.91	18.24	18.38	17.89		
20	64QAM	50	24	17.82	18.30	18.45	17.83	19.3	2
20	64QAM	50	50	17.85	18.35	18.43	17.88		
20	64QAM	100	0	17.89	18.27	18.34	17.76		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3567.5	3608	3642	3692.5		
15	QPSK	1	0	20.27	20.66	20.62	20.93	21.3	0
15	QPSK	1	37	19.83	20.58	20.50	20.84		
15	QPSK	1	74	19.82	20.47	20.39	20.73		
15	QPSK	36	0	20.19	20.75	20.64	20.51		
15	QPSK	36	20	20.16	20.66	20.55	20.49	21.3	0
15	QPSK	36	39	20.01	20.60	20.47	20.47		
15	QPSK	75	0	20.39	20.94	20.49	20.47		
15	16QAM	1	0	20.26	20.83	20.65	20.48	21.3	0
15	16QAM	1	37	19.95	20.61	20.52	20.43		
15	16QAM	1	74	19.80	20.58	20.40	20.62		
15	16QAM	36	0	19.66	19.99	20.14	19.73	20.3	1
15	16QAM	36	20	19.60	20.07	20.07	19.63		
15	16QAM	36	39	19.42	20.07	20.09	19.65		
15	16QAM	75	0	19.38	19.91	20.00	19.56		
15	64QAM	1	0	18.45	18.84	18.92	18.46		
15	64QAM	1	37	18.43	18.89	18.90	18.38	19.3	2
15	64QAM	1	74	18.47	19.07	19.08	18.64		
15	64QAM	36	0	17.87	18.23	18.29	17.81		
15	64QAM	36	20	17.91	18.25	18.43	17.83	19.3	2
15	64QAM	36	39	17.78	18.33	18.39	17.82		
15	64QAM	75	0	17.86	18.22	18.28	17.69		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565	3607.5	3642.5	3695		
10	QPSK	1	0	20.26	20.72	20.61	20.88	21.3	0
10	QPSK	1	25	20.00	20.58	20.45	20.78		
10	QPSK	1	49	19.75	20.48	20.40	20.72		
10	QPSK	25	0	20.21	20.75	20.54	20.52		
10	QPSK	25	12	20.11	20.74	20.49	20.53	21.3	0
10	QPSK	25	25	19.91	20.61	20.55	20.52		
10	QPSK	50	0	20.03	20.64	20.55	20.38		
10	16QAM	1	0	20.31	20.78	20.71	20.54		
10	16QAM	1	25	19.95	20.56	20.45	20.47	21.3	0
10	16QAM	1	49	19.88	20.51	20.42	20.61		
10	16QAM	25	0	19.67	19.96	20.15	19.74		
10	16QAM	25	12	19.61	20.04	20.16	19.65	20.3	1
10	16QAM	25	25	19.35	20.07	20.14	19.62		
10	16QAM	50	0	19.41	19.98	19.98	19.58		
10	64QAM	1	0	18.48	18.93	18.88	18.44		
10	64QAM	1	25	18.43	18.89	18.91	18.39	19.3	2
10	64QAM	1	49	18.44	19.01	19.14	18.59		
10	64QAM	25	0	17.87	18.15	18.34	17.79		
10	64QAM	25	12	17.87	18.29	18.35	17.86	19.3	2
10	64QAM	25	25	17.85	18.35	18.34	17.84		
10	64QAM	50	0	17.81	18.19	18.26	17.70		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3562.5	3607	3644	3693.5		
5	QPSK	1	0	20.21	20.73	20.55	20.98	21.3	0
5	QPSK	1	12	19.91	20.54	20.44	20.83		
5	QPSK	1	24	19.78	20.53	20.35	20.68		
5	QPSK	12	0	20.22	20.68	20.60	20.58		
5	QPSK	12	7	20.14	20.65	20.48	20.54	21.3	0
5	QPSK	12	13	19.91	20.65	20.51	20.54		
5	QPSK	25	0	20.03	20.68	20.48	20.46		
5	16QAM	1	0	20.33	20.73	20.70	20.57		
5	16QAM	1	12	19.98	20.61	20.45	20.44	21.3	0
5	16QAM	1	24	19.91	20.60	20.40	20.69		
5	16QAM	12	0	19.67	20.04	20.11	19.74	20.3	1
5	16QAM	12	7	19.54	20.07	20.09	19.70		
5	16QAM	12	13	19.43	20.00	20.05	19.61		
5	16QAM	25	0	19.41	19.99	20.00	19.56		
5	64QAM	1	0	18.46	18.91	18.94	18.48		
5	64QAM	1	12	18.42	18.86	18.88	18.36	19.3	2
5	64QAM	1	24	18.52	19.01	19.06	18.63		
5	64QAM	12	0	17.87	18.23	18.38	17.83		
5	64QAM	12	7	17.83	18.22	18.42	17.93	19.3	2
5	64QAM	12	13	17.79	18.30	18.34	17.83		
5	64QAM	25	0	17.79	18.26	18.33	17.69		



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	12.78	12.83	12.28	12.9	0	
20	QPSK	1	49	12.81	12.50	12.23			
20	QPSK	1	99	12.51	12.42	12.12			
20	QPSK	50	0	12.72	12.56	12.23	12.9	0	
20	QPSK	50	24	12.68	12.49	12.20			
20	QPSK	50	50	12.62	12.36	12.03			
20	QPSK	100	0	12.66	12.40	12.17	12.9	0	
20	16QAM	1	0	12.75	12.59	12.25			
20	16QAM	1	49	12.69	12.44	12.25			
20	16QAM	1	99	12.53	12.34	11.98	12.9	0	
20	16QAM	50	0	12.77	12.62	12.27			
20	16QAM	50	24	12.73	12.47	12.18			
20	16QAM	50	50	12.66	12.40	12.05	12.9	0	
20	16QAM	100	0	12.73	12.48	12.18			
20	64QAM	1	0	12.41	12.22	11.95			
20	64QAM	1	49	12.25	12.11	11.82	12.9	0	
20	64QAM	1	99	12.19	11.99	11.67			
20	64QAM	50	0	12.75	12.59	12.25			
20	64QAM	50	24	12.70	12.47	12.21	12.9	0	
20	64QAM	50	50	12.62	12.38	12.05			
20	64QAM	100	0	12.69	12.43	12.18			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	12.77	12.54	12.19	12.9	0	
15	QPSK	1	37	12.54	12.45	12.22			
15	QPSK	1	74	12.46	12.41	12.12			
15	QPSK	36	0	12.64	12.46	12.21	12.9	0	
15	QPSK	36	20	12.63	12.41	12.11			
15	QPSK	36	39	12.62	12.34	12.00			
15	QPSK	75	0	12.69	12.32	12.14	12.9	0	
15	16QAM	1	0	12.69	12.49	12.22			
15	16QAM	1	37	12.57	12.44	12.01			
15	16QAM	1	74	12.43	12.25	11.93	12.9	0	
15	16QAM	36	0	12.74	12.60	12.17			
15	16QAM	36	20	12.70	12.38	12.13			
15	16QAM	36	39	12.67	12.35	11.98	12.9	0	
15	16QAM	75	0	12.65	12.47	12.12			
15	64QAM	1	0	12.39	12.17	11.91			
15	64QAM	1	37	12.23	12.02	11.79	12.9	0	
15	64QAM	1	74	12.19	11.92	11.58			
15	64QAM	36	0	12.67	12.59	12.21			
15	64QAM	36	20	12.67	12.40	12.23	12.9	0	
15	64QAM	36	39	12.58	12.33	12.04			
15	64QAM	75	0	12.62	12.39	12.11			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	12.75	12.60	12.20	12.9	0	
10	QPSK	1	25	12.60	12.41	12.21			
10	QPSK	1	49	12.43	12.37	12.12			
10	QPSK	25	0	12.64	12.49	12.14	12.9	0	
10	QPSK	25	12	12.63	12.39	12.13			
10	QPSK	25	25	12.62	12.26	12.00			
10	QPSK	50	0	12.60	12.32	12.13	12.9	0	
10	16QAM	1	0	12.69	12.50	12.24			
10	16QAM	1	25	12.51	12.34	11.95			
10	16QAM	1	49	12.52	12.27	11.94	12.9	0	
10	16QAM	25	0	12.71	12.57	12.21			
10	16QAM	25	12	12.70	12.45	12.18			
10	16QAM	25	25	12.57	12.30	12.02	12.9	0	
10	16QAM	50	0	12.64	12.48	12.11			
10	64QAM	1	0	12.34	12.17	11.89			
10	64QAM	1	25	12.16	12.02	11.73	12.9	0	
10	64QAM	1	49	12.10	11.92	11.64			
10	64QAM	25	0	12.65	12.52	12.21			
10	64QAM	25	12	12.69	12.44	12.20	12.9	0	
10	64QAM	25	25	12.62	12.28	12.04			
10	64QAM	50	0	12.65	12.35	12.08			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	12.74	12.63	12.15	12.9	0	
5	QPSK	1	12	12.62	12.41	12.18			
5	QPSK	1	24	12.48	12.40	12.12			
5	QPSK	12	0	12.64	12.55	12.17	12.9	0	
5	QPSK	12	7	12.61	12.43	12.11			
5	QPSK	12	13	12.57	12.35	12.00			
5	QPSK	25	0	12.59	12.32	12.13	12.9	0	
5	16QAM	1	0	12.65	12.52	12.15			
5	16QAM	1	12	12.59	12.38	11.97			
5	16QAM	1	24	12.50	12.28	11.96	12.9	0	
5	16QAM	12	0	12.74	12.51	12.24			
5	16QAM	12	7	12.67	12.37	12.09			
5	16QAM	12	13	12.60	12.33	12.01	12.9	0	
5	16QAM	25	0	12.71	12.43	12.08			
5	64QAM	1	0	12.32	12.15	11.95			
5	64QAM	1	12	12.22	12.10	11.81	12.9	0	
5	64QAM	1	24	12.10	11.95	11.66			
5	64QAM	12	0	12.73	12.53	12.16			
5	64QAM	12	7	12.70	12.46	12.12	12.9	0	
5	64QAM	12	13	12.61	12.34	12.05			
5	64QAM	25	0	12.66	12.35	12.14			



Band 41											
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.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40195	40620	41055	41490			
Frequency (MHz)				2508	2549.5	2593	2636.5	2680			
20	QPSK	1	0	12.28	12.85	12.51	12.19	12.88	12.9	0	
20	QPSK	1	49	12.21	12.82	12.48	12.18	12.77			
20	QPSK	1	99	12.17	12.80	12.40	12.01	12.76	12.9	0	
20	QPSK	50	0	12.17	12.71	12.48	12.09	12.87			
20	QPSK	50	24	12.11	12.69	12.27	12.08	12.81	12.9	0	
20	QPSK	50	50	12.07	12.68	12.29	12.01	12.86			
20	QPSK	100	0	12.21	12.80	12.44	12.09	12.86	12.9	0	
20	16QAM	1	0	12.22	12.79	12.53	12.08	12.84			
20	16QAM	1	49	12.10	12.69	12.30	11.93	12.84	12.9	0	
20	16QAM	1	99	12.16	12.70	12.30	12.08	12.79			
20	16QAM	50	0	12.22	12.84	12.52	12.12	12.81	12.9	0	
20	16QAM	50	24	12.24	12.84	12.46	12.09	12.84			
20	16QAM	50	50	12.15	12.87	12.40	12.09	12.80	12.9	0	
20	16QAM	100	0	12.23	12.84	12.44	12.07	12.87			
20	64QAM	1	0	11.96	12.39	12.16	11.84	12.51	12.9	0	
20	64QAM	1	49	11.81	12.41	11.96	11.82	12.49			
20	64QAM	1	99	11.91	12.35	11.96	11.87	12.48	12.9	0	
20	64QAM	50	0	12.26	12.82	12.48	12.13	12.86			
20	64QAM	50	24	12.26	12.80	12.43	12.10	12.82	12.9	0	
20	64QAM	50	50	12.15	12.85	12.39	12.12	12.87			
20	64QAM	100	0	12.24	12.86	12.43	12.10	12.87			
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2546.3	2593	2637.8	2682.5			
15	QPSK	1	0	12.28	12.54	12.47	12.10	12.86	12.9	0	
15	QPSK	1	37	12.15	12.59	12.28	12.08	12.87			
15	QPSK	1	74	12.15	12.58	12.28	12.00	12.66	12.9	0	
15	QPSK	38	0	12.21	12.82	12.45	12.05	12.80			
15	QPSK	38	20	12.16	12.81	12.42	12.01	12.72	12.9	0	
15	QPSK	38	39	12.03	12.70	12.38	11.99	12.78			
15	QPSK	75	0	12.21	12.79	12.42	12.09	12.78	12.9	0	
15	16QAM	1	0	12.18	12.73	12.45	12.08	12.79			
15	16QAM	1	37	12.09	12.59	12.22	11.89	12.74	12.9	0	
15	16QAM	1	74	12.06	12.68	12.25	12.00	12.76			
15	16QAM	38	0	12.16	12.79	12.51	12.09	12.74	12.9	0	
15	16QAM	38	20	12.18	12.74	12.46	12.05	12.76			
15	16QAM	38	39	12.07	12.86	12.35	12.02	12.72	12.9	0	
15	16QAM	75	0	12.16	12.77	12.35	12.02	12.86			
15	64QAM	1	0	11.96	12.32	12.06	11.80	12.43	12.9	0	
15	64QAM	1	37	11.78	12.32	11.95	11.81	12.40			
15	64QAM	1	74	11.82	12.30	11.95	11.87	12.42	12.9	0	
15	64QAM	38	0	12.19	12.81	12.39	12.12	12.81			
15	64QAM	38	20	12.25	12.80	12.38	12.04	12.77	12.9	0	
15	64QAM	38	39	12.09	12.79	12.32	12.09	12.78			
15	64QAM	75	0	12.21	12.82	12.41	12.08	12.86			
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	12.28	12.80	12.41	12.10	12.86	12.9	0	
10	QPSK	1	25	12.21	12.64	12.21	12.15	12.71			
10	QPSK	1	49	12.08	12.59	12.24	11.92	12.75	12.9	0	
10	QPSK	25	0	12.12	12.81	12.46	12.01	12.77			
10	QPSK	25	12	12.12	12.81	12.41	12.00	12.80	12.9	0	
10	QPSK	25	25	12.07	12.75	12.35	12.04	12.86			
10	QPSK	50	0	12.16	12.79	12.38	12.03	12.81	12.9	0	
10	16QAM	1	0	12.14	12.76	12.48	11.98	12.79			
10	16QAM	1	25	12.05	12.62	12.27	11.84	12.80	12.9	0	
10	16QAM	1	49	12.11	12.83	12.28	12.08	12.74			
10	16QAM	25	0	12.15	12.74	12.50	12.11	12.74	12.9	0	
10	16QAM	25	12	12.15	12.81	12.38	11.99	12.81			
10	16QAM	25	25	12.06	12.81	12.39	12.02	12.70	12.9	0	
10	16QAM	50	0	12.14	12.74	12.36	12.05	12.80			
10	64QAM	1	0	11.87	12.32	12.12	11.80	12.45	12.9	0	
10	64QAM	1	25	11.71	12.41	11.86	11.77	12.49			
10	64QAM	1	49	11.96	12.27	11.92	11.81	12.47	12.9	0	
10	64QAM	25	0	12.24	12.73	12.48	12.03	12.81			
10	64QAM	25	12	12.20	12.74	12.33	12.10	12.80	12.9	0	
10	64QAM	25	25	12.12	12.85	12.33	12.02	12.85			
10	64QAM	50	0	12.19	12.80	12.42	12.01	12.86			
Channel				24985	40148	40620	41093	41555			
Frequency (MHz)				2498.5	2545.8	2593	2640.8	2687.5			
5	QPSK	1	0	12.19	12.61	12.44	12.17	12.80	12.9	0	
5	QPSK	1	12	12.16	12.62	12.25	12.14	12.68			
5	QPSK	1	24	12.12	12.63	12.25	11.98	12.66	12.9	0	
5	QPSK	12	0	12.16	12.76	12.47	12.04	12.82			
5	QPSK	12	7	12.19	12.75	12.40	12.01	12.80	12.9	0	
5	QPSK	12	13	12.06	12.70	12.30	12.02	12.83			
5	QPSK	25	0	12.14	12.70	12.35	12.07	12.82	12.9	0	
5	16QAM	1	0	12.19	12.75	12.49	12.04	12.79			
5	16QAM	1	12	12.02	12.59	12.30	11.91	12.81	12.9	0	
5	16QAM	1	24	12.07	12.62	12.28	12.05	12.79			
5	16QAM	12	0	12.21	12.76	12.46	12.07	12.81	12.9	0	
5	16QAM	12	7	12.14	12.84	12.40	11.99	12.83			
5	16QAM	12	13	12.05	12.83	12.37	12.04	12.78	12.9	0	
5	16QAM	25	0	12.13	12.75	12.43	11.99	12.82			
5	64QAM	1	0	11.89	12.38	12.08	11.74	12.46	12.9	0	
5	64QAM	1	12	11.81	12.34	11.94	11.77	12.46			
5	64QAM	1	24	11.83	12.35	11.93	11.81	12.39	12.9	0	
5	64QAM	12	0	12.16	12.78	12.48	12.09	12.80			
5	64QAM	12	7	12.18	12.80	12.34	12.06	12.72	12.9	0	
5	64QAM	12	13	12.05	12.79	12.34	12.11	12.84			
5	64QAM	25	0	12.16	12.83	12.43	12.00	12.79			



Band 41 HPUE											
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.	Power High Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40195	40620	41055	41490			
Frequency (MHz)				2508	2549.5	2593	2636.5	2680			
20	QPSK	1	0	14.23	14.42	14.39	14.19	14.49	14.5	0	
20	QPSK	1	49	14.17	14.41	14.48	14.13	14.29			
20	QPSK	1	99	14.15	14.30	14.37	14.00	14.27			
20	QPSK	50	0	14.14	14.21	14.43	14.02	14.45			
20	QPSK	50	24	14.19	14.20	14.22	14.02	14.32			
20	QPSK	50	50	14.06	14.22	14.27	14.03	14.42			
20	QPSK	100	0	14.11	14.31	14.40	14.01	14.39			
20	16QAM	1	0	14.19	14.35	14.47	13.07	14.37	14.5	0	
20	16QAM	1	49	14.03	14.25	14.20	13.85	14.41			
20	16QAM	1	99	14.16	14.29	14.25	14.02	14.29			
20	16QAM	50	0	14.15	14.41	14.44	14.11	14.31			
20	16QAM	50	24	14.14	14.36	14.44	14.07	14.40			
20	16QAM	50	50	14.15	14.45	14.39	14.07	14.40			
20	16QAM	100	0	14.19	14.36	14.43	13.97	14.46	14.5	0	
20	64QAM	1	0	13.85	13.93	14.14	13.84	14.06			
20	64QAM	1	49	13.78	13.91	13.88	13.75	13.99			
20	64QAM	1	99	13.87	13.94	13.92	13.80	14.08			
20	64QAM	50	0	14.25	14.32	14.48	14.04	14.41			
20	64QAM	50	24	14.24	14.40	14.36	14.06	14.35			
20	64QAM	50	50	14.07	14.44	14.32	14.03	14.44			
20	64QAM	100	0	14.21	14.40	14.37	14.10	14.44	14.5	0	
20	64QAM	1	49	13.87	13.94	13.92	13.80	14.08			
20	64QAM	50	0	14.25	14.32	14.48	14.04	14.41			
20	64QAM	50	24	14.24	14.40	14.36	14.06	14.35			
20	64QAM	50	50	14.07	14.44	14.32	14.03	14.44			
Channel				39725	40173	40620	41068	41516	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2546.3	2593	2637.8	2682.5			
15	QPSK	1	0	14.20	14.20	14.30	14.04	14.48	14.5	0	
15	QPSK	1	37	14.09	14.17	14.20	14.06	14.22			
15	QPSK	1	74	14.14	14.14	14.21	13.97	14.19			
15	QPSK	36	0	14.12	14.37	14.42	14.02	14.42			
15	QPSK	36	20	14.18	14.40	14.41	13.95	14.24			
15	QPSK	36	39	13.99	14.27	14.30	14.01	14.33			
15	QPSK	75	0	14.11	14.26	14.35	13.96	14.37	14.5	0	
15	16QAM	1	0	14.11	14.32	14.45	14.00	14.34			
15	16QAM	1	37	14.00	14.19	14.14	13.83	14.36			
15	16QAM	1	74	14.09	14.20	14.15	14.01	14.25			
15	16QAM	36	0	14.09	14.37	14.35	14.01	14.23			
15	16QAM	36	20	14.12	14.33	14.40	13.98	14.38			
15	16QAM	36	39	14.14	14.36	14.37	14.07	14.33	14.5	0	
15	16QAM	75	0	14.12	14.32	14.37	13.94	14.38			
15	64QAM	1	0	13.94	13.93	14.09	13.83	13.97			
15	64QAM	1	37	13.70	13.88	13.86	13.74	13.98			
15	64QAM	1	74	13.79	13.90	13.91	13.73	13.99			
15	64QAM	36	0	14.20	14.29	14.38	14.02	14.36			
15	64QAM	36	20	14.15	14.30	14.30	13.98	14.27	14.5	0	
15	64QAM	36	39	14.02	14.34	14.32	13.94	14.43			
15	64QAM	75	0	14.18	14.38	14.27	14.02	14.34			
15	64QAM	1	37	13.70	13.88	13.86	13.74	13.98			
15	64QAM	1	74	13.79	13.90	13.91	13.73	13.99			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	14.20	14.10	14.32	14.08	14.46	14.5	0	
10	QPSK	1	25	14.17	14.19	14.16	14.10	14.28			
10	QPSK	1	49	14.08	14.12	14.25	13.95	14.19			
10	QPSK	25	0	14.07	14.33	14.47	14.02	14.36			
10	QPSK	25	12	14.14	14.36	14.39	13.93	14.23			
10	QPSK	25	25	13.97	14.27	14.34	13.94	14.36	14.5	0	
10	QPSK	50	0	14.10	14.22	14.32	13.92	14.35			
10	16QAM	1	0	14.11	14.34	14.45	13.97	14.36			
10	16QAM	1	25	13.98	14.23	14.15	13.79	14.33			
10	16QAM	1	49	14.10	14.25	14.18	14.00	14.21			
10	16QAM	25	0	14.06	14.34	14.43	14.09	14.23	14.5	0	
10	16QAM	25	12	14.08	14.27	14.42	14.07	14.33			
10	16QAM	25	25	14.13	14.38	14.37	14.02	14.32			
10	16QAM	50	0	14.14	14.31	14.43	13.90	14.41			
10	64QAM	1	0	13.89	13.84	14.12	13.81	14.03			
10	64QAM	1	25	13.76	13.87	13.88	13.74	13.93	14.5	0	
10	64QAM	1	49	13.83	13.93	13.96	13.80	14.06			
10	64QAM	25	0	14.16	14.26	14.43	13.98	14.35			
10	64QAM	25	12	14.17	14.31	14.27	13.96	14.29			
10	64QAM	25	25	14.06	14.36	14.30	13.98	14.39			
10	64QAM	50	0	14.17	14.30	14.37	14.03	14.35	14.5	0	
10	64QAM	1	25	13.76	13.87	13.88	13.74	13.93			
10	64QAM	1	49	13.83	13.93	13.96	13.80	14.06			
10	64QAM	25	0	14.16	14.26	14.43	13.98	14.35			
10	64QAM	25	12	14.17	14.31	14.27	13.96	14.29			
Channel				39675	40148	40620	41093	41555	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5			
5	QPSK	1	0	14.21	14.16	14.29	14.08	14.46	14.5	0	
5	QPSK	1	12	14.07	14.17	14.21	14.03	14.23			
5	QPSK	1	24	14.10	14.17	14.19	13.98	14.23			
5	QPSK	12	0	14.13	14.36	14.39	13.99	14.45			
5	QPSK	12	7	14.10	14.33	14.41	13.99	14.27			
5	QPSK	12	13	13.96	14.22	14.37	13.93	14.37	14.5	0	
5	QPSK	25	0	14.06	14.24	14.34	13.91	14.31			
5	16QAM	1	0	14.12	14.33	14.43	14.00	14.31			
5	16QAM	1	12	14.01	14.25	14.18	13.77	14.33			
5	16QAM	1	24	14.06	14.19	14.22	14.00	14.26			
5	16QAM	12	0	14.12	14.39	14.34	14.01	14.25	14.5	0	
5	16QAM	12	7	14.08	14.31	14.40	14.04	14.40			
5	16QAM	12	13	14.10	14.42	14.38	14.07	14.39			
5	16QAM	25	0	14.09	14.30	14.35	13.97	14.43			
5	64QAM	1	0	13.90	13.88	14.04	13.77	13.96			
5	64QAM	1	12	13.76	13.87	13.78	13.73	13.99	14.5	0	
5	64QAM	1	24	13.86	13.89	13.90	13.76	14.05			
5	64QAM	12	0	14.16	14.25	14.41	14.02	14.41			
5	64QAM	12	7	14.14	14.36	14.28	13.96	14.26			
5	64QAM	12	13	14.07	14.41	14.29	13.96	14.43			
5	64QAM	25	0	14.13	14.36	14.28	14.00	14.43			



Band 48 ANT 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low/Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	13.82	13.91	13.81	13.82		
20	QPSK	1	49	13.38	13.72	13.59	13.84	14	0
20	QPSK	1	99	13.33	13.84	13.55	13.85		
20	QPSK	50	0	13.57	13.88	13.77	13.81		
20	QPSK	50	24	13.57	13.77	13.72	13.81	14	0
20	QPSK	50	50	13.47	13.75	13.69	13.72		
20	16QAM	100	0	13.53	13.79	13.75	13.76		
20	16QAM	1	0	13.81	13.76	13.83	13.71		
20	16QAM	1	49	13.48	13.73	13.87	13.59	14	0
20	16QAM	1	99	13.46	13.88	13.59	13.56		
20	16QAM	50	0	13.57	13.75	13.81	13.83		
20	16QAM	50	24	13.58	13.76	13.74	13.77	14	0
20	16QAM	50	50	13.50	13.80	13.68	13.66		
20	16QAM	100	0	13.58	13.76	13.76	13.74		
20	64QAM	1	0	13.43	13.71	13.65	13.61		
20	64QAM	1	49	13.27	13.51	13.40	13.42	14	0
20	64QAM	1	99	13.24	13.52	13.42	13.44		
20	64QAM	50	0	13.58	13.78	13.83	13.85		
20	64QAM	50	24	13.61	13.75	13.79	13.79	14	0
20	64QAM	50	50	13.52	13.81	13.71	13.67		
20	64QAM	100	0	13.58	13.77	13.75	13.78		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	13.58	13.75	13.75	13.74		
15	QPSK	1	37	13.29	13.69	13.58	13.64	14	0
15	QPSK	1	74	13.24	13.84	13.46	13.46		
15	QPSK	36	0	13.57	13.72	13.69	13.81		
15	QPSK	36	20	13.48	13.73	13.72	13.78	14	0
15	QPSK	36	39	13.41	13.67	13.60	13.65		
15	QPSK	75	0	13.44	13.77	13.72	13.78		
15	16QAM	1	0	13.53	13.73	13.77	13.61		
15	16QAM	1	37	13.45	13.73	13.48	13.52	14	0
15	16QAM	1	74	13.44	13.59	13.59	13.56		
15	16QAM	36	0	13.51	13.75	13.71	13.79		
15	16QAM	36	20	13.50	13.67	13.72	13.76	14	0
15	16QAM	36	39	13.49	13.75	13.60	13.65		
15	16QAM	75	0	13.53	13.67	13.71	13.67		
15	64QAM	1	0	13.36	13.68	13.63	13.58		
15	64QAM	1	37	13.21	13.42	13.31	13.32	14	0
15	64QAM	1	74	13.14	13.51	13.41	13.35		
15	64QAM	36	0	13.52	13.75	13.82	13.79		
15	64QAM	36	20	13.51	13.73	13.76	13.79	14	0
15	64QAM	36	39	13.47	13.73	13.69	13.57		
15	64QAM	75	0	13.56	13.72	13.72	13.76		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	13.67	13.79	13.81	13.77		
10	QPSK	1	25	13.37	13.62	13.55	13.62	14	0
10	QPSK	1	49	13.30	13.63	13.49	13.50		
10	QPSK	25	0	13.56	13.78	13.73	13.79		
10	QPSK	25	12	13.49	13.70	13.65	13.79	14	0
10	QPSK	25	25	13.40	13.75	13.62	13.70		
10	QPSK	50	0	13.51	13.77	13.70	13.79		
10	16QAM	1	0	13.52	13.72	13.81	13.64		
10	16QAM	1	25	13.45	13.71	13.53	13.53	14	0
10	16QAM	1	49	13.38	13.62	13.56	13.50		
10	16QAM	25	0	13.54	13.65	13.72	13.81		
10	16QAM	25	12	13.51	13.67	13.66	13.77	14	0
10	16QAM	25	25	13.47	13.73	13.60	13.62		
10	16QAM	50	0	13.50	13.71	13.72	13.71		
10	64QAM	1	0	13.35	13.63	13.61	13.56		
10	64QAM	1	25	13.19	13.45	13.30	13.33	14	0
10	64QAM	1	49	13.23	13.46	13.32	13.40		
10	64QAM	25	0	13.50	13.69	13.81	13.75		
10	64QAM	25	12	13.61	13.72	13.71	13.77	14	0
10	64QAM	25	25	13.48	13.76	13.63	13.64		
10	64QAM	50	0	13.48	13.75	13.70	13.78		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3642	3692.5		
5	QPSK	1	0	13.60	13.84	13.72	13.79		
5	QPSK	1	12	13.31	13.71	13.55	13.59	14	0
5	QPSK	1	24	13.29	13.58	13.51	13.54		
5	QPSK	12	0	13.53	13.80	13.70	13.74		
5	QPSK	12	7	13.56	13.70	13.69	13.74	14	0
5	QPSK	12	13	13.37	13.70	13.64	13.68		
5	QPSK	25	0	13.51	13.76	13.69	13.70		
5	16QAM	1	0	13.54	13.68	13.77	13.70		
5	16QAM	1	12	13.44	13.70	13.53	13.58	14	0
5	16QAM	1	24	13.41	13.68	13.59	13.47		
5	16QAM	12	0	13.47	13.70	13.76	13.74		
5	16QAM	12	7	13.53	13.71	13.64	13.72	14	0
5	16QAM	12	13	13.46	13.70	13.66	13.64		
5	16QAM	25	0	13.56	13.76	13.70	13.66		
5	64QAM	1	0	13.38	13.61	13.59	13.60		
5	64QAM	1	12	13.20	13.42	13.34	13.33	14	0
5	64QAM	1	24	13.19	13.42	13.35	13.36		
5	64QAM	12	0	13.52	13.77	13.74	13.75		
5	64QAM	12	7	13.69	13.67	13.69	13.78	14	0
5	64QAM	12	13	13.43	13.77	13.67	13.60		
5	64QAM	25	0	13.52	13.67	13.69	13.68		



n2									
Band	BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					374000	378000	380000		
Frequency (MHz)					1860	1880	1900		
20	20	PI/2 BPSK	1	1	23.52	23.72	23.60		
20	20	PI/2 BPSK	1	53	23.35	23.41	23.40	25.0	0.0
20	20	PI/2 BPSK	1	104	23.28	23.34	23.24		
20	20	PI/2 BPSK	50	0	23.45	23.58	23.48		
20	20	PI/2 BPSK	50	28	23.30	23.49	23.38	25.0	0.0
20	20	PI/2 BPSK	50	56	23.38	23.42	23.45		
20	20	PI/2 BPSK	100	0	22.78	22.85	22.78	24.5	0.5
20	20	QPSK	1	1	23.26	23.34	23.32		
20	20	QPSK	1	53	23.37	23.43	23.35	25.0	0.0
20	20	QPSK	1	104	23.29	23.38	23.31		
20	20	QPSK	50	0	22.20	22.28	22.16	24.0	1.0
20	20	QPSK	50	28	23.34	23.37	23.30	25.0	0.0
20	20	QPSK	50	56	22.46	22.57	22.40	24.0	1.0
20	20	QPSK	100	0	22.33	22.34	22.27		
20	20	16QAM	1	1	22.25	22.26	22.16	24.0	1.0
20	20	64QAM	1	1	21.54	21.56	21.55	22.5	2.5
20	20	256QAM	1	1	19.25	19.28	19.18	20.5	4.5
Channel					371500	376000	380500		
Frequency (MHz)					1857.5	1880	1902.5		
15	15	PI/2 BPSK	1	1	23.45	23.20	23.40	25.0	0.0
Channel					371000	378000	381000		
Frequency (MHz)					1855	1880	1905		
10	10	PI/2 BPSK	1	1	23.51	23.18	23.31	25.0	0.0
Channel					376000	376000	381500		
Frequency (MHz)					1852.5	1880	1907.5		
5	5	PI/2 BPSK	1	1	23.44	23.25	23.30	25.0	0.0



n5								
BW [MHz]	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	838.5	839		
20	PI/2 BPSK	1	1	23.59	23.64	23.54		
20	PI/2 BPSK	1	53	23.57	23.60	23.60	25.0	0.0
20	PI/2 BPSK	1	104	23.08	23.05	23.03		
20	PI/2 BPSK	50	0	23.07	23.96	23.02		
20	PI/2 BPSK	50	28	23.35	23.43	23.27	25.0	0.0
20	PI/2 BPSK	50	56	23.23	23.19	23.17		
20	PI/2 BPSK	100	0	22.55	22.59	22.52	24.5	0.5
20	QPSK	1	1	23.43	23.52	23.41		
20	QPSK	1	53	23.51	23.52	23.49	25.0	0.0
20	QPSK	1	104	23.18	23.11	23.17		
20	QPSK	50	0	23.28	23.35	23.27		
20	QPSK	50	28	23.38	23.35	23.28	25.0	0.0
20	QPSK	50	56	23.17	23.20	23.19		
20	QPSK	100	0	22.18	22.18	22.12	24.0	1.0
20	16QAM	1	1	22.39	22.41	22.37	24.0	1.0
20	64QAM	1	1	21.07	21.03	20.99	22.5	2.5
20	256QAM	1	1	19.04	19.04	19.01	20.5	4.5
Channel				168300	167300	168300	↑ limit (dBm)	MPR
Frequency (MHz)				831.5	838.5	841.5		
15	PI/2 BPSK	1	1	23.52	23.39	23.43	25.0	0.0
Channel				165300	167300	168300	↑ limit (dBm)	MPR
Frequency (MHz)				829	838.5	844		
10	PI/2 BPSK	1	1	23.47	23.47	23.44	25.0	0.0
Channel				165300	167300	168300	↑ limit (dBm)	MPR
Frequency (MHz)				826.5	838.5	846.5		
5	PI/2 BPSK	1	1	23.45	23.43	23.39	25.0	0.0



n5 ANT 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.42	23.51	23.47		
20	PI/2 BPSK	1	53	23.30	23.41	23.44	25.0	0.0
20	PI/2 BPSK	1	104	23.42	23.43	23.41		
20	PI/2 BPSK	50	0	23.31	23.48	23.44		
20	PI/2 BPSK	50	28	23.43	23.44	23.41	25.0	0.0
20	PI/2 BPSK	50	56	23.28	23.24	23.22		
20	PI/2 BPSK	100	0	23.24	23.29	23.27	24.5	0.5
20	QPSK	1	1	23.32	23.33	23.33		
20	QPSK	1	53	23.38	23.32	23.39	25.0	0.0
20	QPSK	1	104	23.15	23.09	23.12		
20	QPSK	50	0	23.31	23.28	23.40		
20	QPSK	50	28	23.34	23.38	23.37	25.0	0.0
20	QPSK	50	56	23.25	23.34	23.30		
20	QPSK	100	0	22.23	22.39	22.37	24.0	1.0
20	16QAM	1	1	22.22	22.35	22.35	24.0	1.0
20	64QAM	1	1	21.00	21.13	21.01	22.5	2.5
20	256QAM	1	1	19.01	19.11	19.12	20.5	4.5
Channel				168300	167300	168300	168300	MPR
Frequency (MHz)				831.5	836.5	841.5		
15	PI/2 BPSK	1	1	23.37	23.51	23.44	25.0	0.0
Channel				165300	167300	168300	165300	MPR
Frequency (MHz)				829	836.5	844		
10	PI/2 BPSK	1	1	23.37	23.41	23.46	25.0	0.0
Channel				165300	167300	168300	165300	MPR
Frequency (MHz)				826.5	836.5	846.5		
5	PI/2 BPSK	1	1	23.41	23.45	23.41	25.0	0.0



n71								
BW [MHz]	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	135100	137600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.44	23.52	23.49		
20	PI/2 BPSK	1	53	23.12	23.38	23.32	25.0	0.0
20	PI/2 BPSK	1	104	23.14	23.22	23.14		
20	PI/2 BPSK	50	0	23.19	23.44	23.23		
20	PI/2 BPSK	50	28	23.14	23.32	23.39	25.0	0.0
20	PI/2 BPSK	50	56	23.16	23.28	23.20		
20	PI/2 BPSK	100	0	22.69	22.70	22.82	24.5	0.5
20	QPSK	1	1	23.14	23.45	23.45		
20	QPSK	1	53	23.08	23.41	23.18	25.0	0.0
20	QPSK	1	104	23.04	23.29	23.19		
20	QPSK	50	0	23.18	23.22	23.16		
20	QPSK	50	28	23.12	23.14	23.14	25.0	0.0
20	QPSK	50	56	23.05	23.27	23.12		
20	QPSK	100	0	22.13	22.31	22.23	24.0	1.0
20	16QAM	1	1	22.17	22.37	22.21	24.0	1.0
20	64QAM	1	1	20.79	21.06	20.93	22.5	2.5
20	256QAM	1	1	18.60	18.82	18.83	20.5	4.5
Channel				134100	136100	138100	↑↑↑↑↑	MPR
Frequency (MHz)				670.5	680.5	690.5	↑↑↑↑↑	(dBm)
15	PI/2 BPSK	1	1	23.43	23.48	23.39	25.0	0.0
Channel				133500	135100	136500	↑↑↑↑↑	MPR
Frequency (MHz)				668	680.5	693	↑↑↑↑↑	(dB)
10	PI/2 BPSK	1	1	23.37	23.45	23.47	25.0	0.0
Channel				133100	136100	139100	↑↑↑↑↑	MPR
Frequency (MHz)				665.5	680.5	695.5	↑↑↑↑↑	(dB)
5	PI/2 BPSK	1	1	23.38	23.49	23.48	25.0	0.0



n71 ANT 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	135100	137600		
Frequency (MHz)				675	680.5	688		
20	PI/2 BPSK	1	1	23.60	23.71	23.31		
20	PI/2 BPSK	1	53	23.57	23.30	23.19	25.0	0.0
20	PI/2 BPSK	1	104	23.47	23.07	23.16		
20	PI/2 BPSK	50	0	23.10	23.36	23.18		
20	PI/2 BPSK	50	28	23.19	23.14	23.25	25.0	0.0
20	PI/2 BPSK	50	56	23.11	23.12	23.13		
20	PI/2 BPSK	100	0	23.03	22.75	22.75	24.5	0.5
20	QPSK	1	1	23.52	23.41	23.41		
20	QPSK	1	53	23.41	23.17	23.16	25.0	0.0
20	QPSK	1	104	23.51	23.09	23.12		
20	QPSK	50	0	23.19	23.29	23.18		
20	QPSK	50	28	23.10	23.22	23.24	25.0	0.0
20	QPSK	50	56	23.12	23.10	23.16		
20	QPSK	100	0	22.34	22.09	22.19	24.0	1.0
20	16QAM	1	1	22.55	22.10	22.16	24.0	1.0
20	64QAM	1	1	21.12	20.95	20.79	22.5	2.5
20	256QAM	1	1	19.33	18.97	18.93	20.5	4.5
Channel				134100	136100	138100	↑↑↑↑↑	MPR
Frequency (MHz)				670.5	680.5	690.5	↑↑↑↑↑	(dBm)
15	PI/2 BPSK	1	1	23.69	23.38	23.23	25.0	0.0
Channel				133500	135100	136600	↑↑↑↑↑	MPR
Frequency (MHz)				665	680.5	693	↑↑↑↑↑	(dBm)
10	PI/2 BPSK	1	1	23.57	23.30	23.18	25.0	0.0
Channel				133100	136100	139100	↑↑↑↑↑	MPR
Frequency (MHz)				665.5	680.5	695.5	↑↑↑↑↑	(dBm)
5	PI/2 BPSK	1	1	23.46	23.39	23.28	25.0	0.0



n66									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				34800	34900	35200			
Frequency (MHz)				1720	1745	1760			
40	PI/2 BPSK	1	1	24.18	24.23	24.12			
40	PI/2 BPSK	1	108	24.14	24.12	23.95	25.0	0.0	
40	PI/2 BPSK	1	214	24.04	24.11	24.07			
40	PI/2 BPSK	108	0	23.78	24.19	24.08			
40	PI/2 BPSK	108	54	24.06	24.15	23.93	25.0	0.0	
40	PI/2 BPSK	108	108	23.97	23.99	23.95			
40	PI/2 BPSK	216	0	23.15	23.78	23.64	24.5	0.5	
40	QPSK	1	1	24.04	24.18	24.09			
40	QPSK	1	108	24.03	24.12	24.07	25.0	0.0	
40	QPSK	1	214	24.06	24.11	24.11			
40	QPSK	108	0	23.43	23.72	23.91			
40	QPSK	108	54	24.09	24.16	23.92	25.0	0.0	
40	QPSK	108	108	23.40	23.64	23.99			
40	QPSK	216	0	23.44	23.73	23.85	24.0	1.0	
40	16QAM	1	1	23.08	23.45	23.80	24.0	1.0	
40	64QAM	1	1	21.89	22.21	22.43	22.5	2.5	
40	256QAM	1	1	19.31	19.47	19.82	20.5	4.5	
Channel				344000	349000	354000	limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770			
20	PI/2 BPSK	1	1	24.08	24.19	24.02	25.0	0.0	
Channel				343500	349000	354500	limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI/2 BPSK	1	1	24.12	24.13	24.10	25.0	0.0	
Channel				343000	349000	355000	limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	PI/2 BPSK	1	1	24.09	24.20	24.11	25.0	0.0	
Channel				342500	349000	355500	limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI/2 BPSK	1	1	24.18	24.17	24.05	25.0	0.0	



n2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374000	378000	380000		
Frequency (MHz)				1860	1880	1900		
20	Pl/2 BPSK	1	1	18.07	18.11	18.05		
20	Pl/2 BPSK	1	53	17.91	17.94	17.90	18.9	0.0
20	Pl/2 BPSK	1	104	17.88	17.97	17.92		
20	Pl/2 BPSK	50	0	18.03	18.05	17.92		0.0
20	Pl/2 BPSK	50	28	17.91	17.98	17.89	18.9	0.0
20	Pl/2 BPSK	50	56	17.83	18.02	17.96		
20	Pl/2 BPSK	100	0	18.01	18.03	17.91	18.9	0.0
20	QPSK	1	1	17.93	18.10	17.84		
20	QPSK	1	53	17.94	18.01	17.88	18.9	0.0
20	QPSK	1	104	17.90	18.06	17.86		
20	QPSK	50	0	17.95	18.02	17.86		0.0
20	QPSK	50	28	17.93	18.02	17.95	18.9	0.0
20	QPSK	50	56	18.00	18.05	18.01		0.0
20	QPSK	100	0	17.96	18.01	18.02	18.9	0.0
20	16QAM	1	1	17.95	18.06	17.93	18.9	0.0
20	64QAM	1	1	18.00	18.01	17.95	18.9	0.0
20	256QAM	1	1	18.02	18.08	17.95	18.9	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	Pl/2 BPSK	1	1	18.03	18.04	17.95	18.9	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	Pl/2 BPSK	1	1	18.06	18.05	17.95	18.9	0.0
Channel				376000	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	Pl/2 BPSK	1	1	17.99	18.04	17.95	18.9	0.0



n5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				166800	167300	167800	MPR
Frequency (MHz)				834	836.5	839	MPR
20	PI/2 BPSK	1	1	20.21	20.36	20.24	
20	PI/2 BPSK	1	53	20.04	20.19	20.08	21.3
20	PI/2 BPSK	1	104	20.02	20.17	20.06	
20	PI/2 BPSK	50	0	20.10	20.25	20.14	
20	PI/2 BPSK	50	28	19.99	20.14	20.03	21.3
20	PI/2 BPSK	50	56	20.01	20.16	20.05	
20	PI/2 BPSK	100	0	20.07	20.22	20.11	21.3
20	QPSK	1	1	20.04	20.19	20.08	
20	QPSK	1	53	20.03	20.18	20.07	21.3
20	QPSK	1	104	20.01	20.16	20.05	
20	QPSK	50	0	19.98	20.13	20.02	
20	QPSK	50	28	19.96	20.11	20.00	21.3
20	QPSK	50	56	19.99	20.14	20.03	
20	QPSK	100	0	20.01	20.16	20.05	21.3
20	16QAM	1	1	19.96	20.13	20.02	21.3
20	64QAM	1	1	19.72	19.97	19.76	21.3
20	256QAM	1	1	19.18	19.33	19.22	20.5
Channel				168300	167300	168300	MPR
Frequency (MHz)				831.5	836.5	841.5	MPR
15	PI/2 BPSK	1	1	20.13	20.33	20.20	21.3
Channel				165300	167300	168300	MPR
Frequency (MHz)				829	836.5	844	MPR
10	PI/2 BPSK	1	1	20.19	20.29	20.19	21.3
Channel				165300	167300	168300	MPR
Frequency (MHz)				826.5	836.5	846.5	MPR
5	PI/2 BPSK	1	1	20.14	20.28	20.23	21.3



n5 ANT 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	167800	MPR
Frequency (MHz)				834	836.5	839	167800	MPR
20	PI/2 BPSK	1	1	21.02	21.04	20.91		
20	PI/2 BPSK	1	53	20.99	21.02	20.98	22.2	0.0
20	PI/2 BPSK	1	104	20.97	21.03	21.03		
20	PI/2 BPSK	50	0	20.93	20.98	20.96		
20	PI/2 BPSK	50	28	20.87	20.96	20.91	22.2	0.0
20	PI/2 BPSK	50	56	20.89	20.94	20.87		
20	PI/2 BPSK	100	0	20.95	20.96	20.94	22.2	0.0
20	QPSK	1	1	20.89	20.90	20.88		
20	QPSK	1	53	20.89	20.89	20.89	22.2	0.0
20	QPSK	1	104	20.82	20.86	20.83		
20	QPSK	50	0	20.82	20.88	20.83		
20	QPSK	50	28	20.83	20.89	20.89	22.2	0.0
20	QPSK	50	56	20.78	20.86	20.78		
20	QPSK	100	0	20.83	20.85	20.81	22.2	0.0
20	16QAM	1	1	20.84	20.88	20.79	22.2	0.0
20	64QAM	1	1	20.59	20.59	20.49	22.2	0.0
20	256QAM	1	1	19.26	19.30	19.21	20.5	1.7
Channel				168300	167300	168300	168300	MPR
Frequency (MHz)				831.5	836.5	841.5	168300	MPR
15	PI/2 BPSK	1	1	20.92	20.98	20.82	22.2	0.0
Channel				165300	167300	168300	168300	MPR
Frequency (MHz)				829	836.5	844	168300	MPR
10	PI/2 BPSK	1	1	20.94	20.94	20.86	22.2	0.0
Channel				165300	167300	168300	168300	MPR
Frequency (MHz)				826.5	836.5	846.5	168300	MPR
5	PI/2 BPSK	1	1	20.95	20.95	20.85	22.2	0.0



n71							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				134600	135100	137600	MPR
Frequency (MHz)				673	680.5	688	MPR (dB)
20	PI/2 BPSK	1	1	20.11	20.01	19.94	
20	PI/2 BPSK	1	53	20.10	19.98	19.94	20.8
20	PI/2 BPSK	1	104	20.05	19.98	19.89	
20	PI/2 BPSK	50	0	20.10	19.99	19.84	
20	PI/2 BPSK	50	28	20.04	19.98	19.88	20.8
20	PI/2 BPSK	50	56	20.10	19.94	19.88	
20	PI/2 BPSK	100	0	20.02	19.93	19.87	20.8
20	QPSK	1	1	20.09	19.92	19.87	
20	QPSK	1	53	20.06	19.92	19.91	20.8
20	QPSK	1	104	20.03	19.90	19.92	
20	QPSK	50	0	20.04	19.96	19.88	
20	QPSK	50	28	20.05	19.95	19.88	20.8
20	QPSK	50	56	20.06	19.93	19.89	
20	QPSK	100	0	20.06	19.89	19.84	20.8
20	16QAM	1	1	20.09	19.77	19.88	20.8
20	64QAM	1	1	20.01	19.54	19.87	20.8
20	256QAM	1	1	20.03	19.06	19.84	20.5
Channel				134100	136100	138100	MPR
Frequency (MHz)				670.5	680.5	690.5	MPR (dB)
15	PI/2 BPSK	1	1	20.02	20.00	19.92	20.8
Channel				133500	135100	136500	MPR
Frequency (MHz)				668	680.5	693	MPR (dB)
10	PI/2 BPSK	1	1	20.02	19.95	19.89	20.8
Channel				133100	136100	139100	MPR
Frequency (MHz)				665.5	680.5	695.5	MPR (dB)
5	PI/2 BPSK	1	1	20.02	19.91	19.85	20.8



n71 ANT 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				134600	135100	137600	MPR
Frequency (MHz)				673	680.5	688	MPR (dB)
20	PI/2 BPSK	1	1	18.43	18.44	18.31	
20	PI/2 BPSK	1	53	18.37	18.42	18.28	19.5
20	PI/2 BPSK	1	104	18.37	18.40	18.29	0.0
20	PI/2 BPSK	50	0	18.33	18.43	18.31	
20	PI/2 BPSK	50	28	18.33	18.39	18.23	19.5
20	PI/2 BPSK	50	56	18.39	18.41	18.22	0.0
20	PI/2 BPSK	100	0	18.40	18.36	18.28	19.5
20	QPSK	1	1	18.34	18.40	18.27	
20	QPSK	1	53	18.40	18.39	18.31	19.5
20	QPSK	1	104	18.42	18.40	18.23	
20	QPSK	50	0	18.39	18.41	18.21	
20	QPSK	50	28	18.41	18.36	18.21	19.5
20	QPSK	50	56	18.38	18.38	18.23	
20	QPSK	100	0	18.38	18.35	18.28	19.5
20	16QAM	1	1	18.35	18.32	18.21	19.5
20	64QAM	1	1	18.43	18.04	18.29	19.5
20	256QAM	1	1	18.39	18.43	18.30	19.5
Channel				134100	136100	138100	MPR
Frequency (MHz)				670.5	680.5	690.5	MPR (dB)
15	PI/2 BPSK	1	1	18.38	18.42	18.29	19.5
Channel				133500	135100	136500	MPR
Frequency (MHz)				668	680.5	693	MPR (dB)
10	PI/2 BPSK	1	1	18.37	18.43	18.27	19.5
Channel				133100	136100	139100	MPR
Frequency (MHz)				665.5	680.5	695.5	MPR (dB)
5	PI/2 BPSK	1	1	18.35	18.43	18.24	19.5



n66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				348000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	19.16	19.17	19.09		
40	PV2 BPSK	1	108	19.11	19.15	19.08	20.1	0.0
40	PV2 BPSK	1	214	19.03	19.13	19.07		
40	PV2 BPSK	108	0	19.09	19.14	19.06		
40	PV2 BPSK	108	54	19.10	19.14	19.11	20.1	0.0
40	PV2 BPSK	108	108	19.13	19.13	19.11		
40	PV2 BPSK	216	0	19.05	19.12	19.08	20.1	0.0
40	QPSK	1	1	18.97	19.07	18.99		
40	QPSK	1	108	19.05	19.05	18.96	20.1	0.0
40	QPSK	1	214	18.97	19.04	18.96		
40	QPSK	108	0	19.00	19.03	18.96		
40	QPSK	108	54	18.99	19.07	19.01	20.1	0.0
40	QPSK	108	108	18.98	19.05	19.01		
40	QPSK	216	0	18.99	19.08	19.02	20.1	0.0
40	16QAM	1	1	18.98	19.07	19.07	20.1	0.0
40	64QAM	1	1	19.09	19.09	19.00	20.1	0.0
40	256QAM	1	1	19.08	19.13	19.10	20.1	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	PV2 BPSK	1	1	19.08	19.14	19.13	20.1	0.0
Channel				343000	349000	354000		
Frequency (MHz)				1717.5	1745	1772.5		
15	PV2 BPSK	1	1	19.08	19.16	19.08	20.1	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	PV2 BPSK	1	1	19.09	19.16	19.15	20.1	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	PV2 BPSK	1	1	19.08	19.10	19.07	20.1	0.0



n2								
BW [MHz]	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	1890	1920		
20	Pl/2 BPSK	1	1	14.45	14.46	14.41		
20	Pl/2 BPSK	1	53	14.39	14.35	14.33	15.3	0.0
20	Pl/2 BPSK	1	104	14.40	14.33	14.39		
20	Pl/2 BPSK	50	0	14.32	14.33	14.32	15.3	0.0
20	Pl/2 BPSK	50	28	14.32	14.31	14.32	15.3	0.0
20	Pl/2 BPSK	50	56	14.30	14.28	14.32		
20	Pl/2 BPSK	100	0	14.30	14.38	14.31	15.3	0.0
20	QPSK	1	1	14.39	14.36	14.39		
20	QPSK	1	53	14.41	14.40	14.36	15.3	0.0
20	QPSK	1	104	14.35	14.36	14.39		
20	QPSK	50	0	14.32	14.35	14.35	15.3	0.0
20	QPSK	50	28	14.40	14.33	14.42	15.3	0.0
20	QPSK	50	56	14.33	14.30	14.35	15.3	0.0
20	QPSK	100	0	14.42	14.34	14.34		
20	16QAM	1	1	14.41	14.40	14.33	15.3	0.0
20	64QAM	1	1	14.35	14.42	14.34	15.3	0.0
20	256QAM	1	1	14.34	14.45	14.39	15.3	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1867.5	1880	1902.5		
15	Pl/2 BPSK	1	1	14.32	14.36	14.42	15.3	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1890	1925		
10	Pl/2 BPSK	1	1	14.35	14.34	14.37	15.3	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	Pl/2 BPSK	1	1	14.32	14.42	14.36	15.3	0.0



n5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				168800	167300	167800		
Frequency (MHz)				834	838.5	842		
20	PI/2 BPSK	1	1	15.76	15.82	15.70		
20	PI/2 BPSK	1	53	15.76	15.72	15.72	16.7	0.0
20	PI/2 BPSK	1	104	15.76	15.74	15.88		
20	PI/2 BPSK	50	0	15.72	15.73	15.68		
20	PI/2 BPSK	50	28	15.70	15.70	15.67	16.7	0.0
20	PI/2 BPSK	50	56	15.63	15.68	15.66		
20	PI/2 BPSK	100	0	15.67	15.66	15.71	16.7	0.0
20	QPSK	1	1	15.73	15.72	15.66		
20	QPSK	1	53	15.74	15.71	15.70	16.7	0.0
20	QPSK	1	104	15.68	15.67	15.71		
20	QPSK	50	0	15.71	15.69	15.67		
20	QPSK	50	28	15.67	15.67	15.68	16.7	0.0
20	QPSK	50	56	15.73	15.71	15.67		
20	QPSK	100	0	15.73	15.72	15.73	16.7	0.0
20	16QAM	1	1	15.67	15.62	15.66	16.7	0.0
20	64QAM	1	1	15.74	15.42	15.79	16.7	0.0
20	256QAM	1	1	15.70	15.66	15.71	16.7	0.0
Channel				169300	167300	168300		
Frequency (MHz)				831.5	838.5	841.5		
15	PI/2 BPSK	1	1	15.67	15.68	15.75	16.7	0.0
Channel				165800	167300	166800		
Frequency (MHz)				829	838.5	844		
10	PI/2 BPSK	1	1	15.74	15.73	15.71	16.7	0.0
Channel				165300	167300	166300		
Frequency (MHz)				826.5	838.5	846.5		
5	PI/2 BPSK	1	1	15.74	15.69	15.70	16.7	0.0



n5 ANT 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 168800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel				834	838.5	842		
Frequency (MHz)				834	838.5	842		
20	PI/2 BPSK	1	1	15.28	15.23	15.01		
20	PI/2 BPSK	1	53	15.22	15.21	14.95	16.0	0.0
20	PI/2 BPSK	1	104	15.21	15.20	15.01		
20	PI/2 BPSK	50	0	15.23	15.18	14.94		
20	PI/2 BPSK	50	26	15.22	15.20	14.97	16.0	0.0
20	PI/2 BPSK	50	56	15.16	15.16	15.01		
20	PI/2 BPSK	100	0	15.16	15.19	15.01	16.0	0.0
20	QPSK	1	1	15.22	15.18	14.94		
20	QPSK	1	53	15.23	15.16	14.95	16.0	0.0
20	QPSK	1	104	15.20	15.14	15.00		
20	QPSK	50	0	15.13	15.20	14.96		
20	QPSK	50	28	15.23	15.18	14.93	16.0	0.0
20	QPSK	50	56	15.18	15.16	14.98		
20	QPSK	100	0	15.15	15.14	14.97	16.0	0.0
20	16QAM	1	1	15.23	15.11	14.97	16.0	0.0
20	64QAM	1	1	15.20	15.02	14.96	16.0	0.0
20	256QAM	1	1	15.19	15.03	14.94	16.0	0.0
Channel				168300	167300	168300		
Frequency (MHz)				831.5	838.5	841.5		
15	PI/2 BPSK	1	1	15.16	15.14	15.01	16.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	838.5	844		
10	PI/2 BPSK	1	1	15.15	15.17	15.01	16.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	838.5	846.5		
5	PI/2 BPSK	1	1	15.14	15.16	14.94	16.0	0.0



n71								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)				672	680.5	688		
20	PI/2 BPSK	1	1	18.43	18.38	18.22		
20	PI/2 BPSK	1	53	18.36	18.34	18.17	19.2	0.0
20	PI/2 BPSK	1	104	18.29	18.36	18.22		
20	PI/2 BPSK	50	0	18.37	18.30	18.15		
20	PI/2 BPSK	50	26	18.36	18.35	18.22	19.2	0.0
20	PI/2 BPSK	50	56	18.31	18.33	18.21		
20	PI/2 BPSK	100	0	18.29	18.32	18.18	19.2	0.0
20	QPSK	1	1	18.37	18.36	18.13		
20	QPSK	1	53	18.37	18.34	18.12	19.2	0.0
20	QPSK	1	104	18.35	18.32	18.12		
20	QPSK	50	0	18.34	18.34	18.16		
20	QPSK	50	28	18.34	18.36	18.17	19.2	0.0
20	QPSK	50	56	18.38	18.37	18.20		
20	QPSK	100	0	18.35	18.29	18.21	19.2	0.0
20	16QAM	1	1	18.36	18.11	18.19	19.2	0.0
20	64QAM	1	1	18.29	18.34	18.19	19.2	0.0
20	256QAM	1	1	18.34	18.33	18.19	19.2	0.0
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	PI/2 BPSK	1	1	18.38	18.32	18.17	19.2	0.0
Channel				133600	136100	138600		
Frequency (MHz)				668	680.5	693		
10	PI/2 BPSK	1	1	18.38	18.30	18.18	19.2	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	PI/2 BPSK	1	1	18.38	18.32	18.14	19.2	0.0



n71 ANT 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)				672	680.5	688		
20	PI/2 BPSK	1	1	18.00	18.04	17.81		
20	PI/2 BPSK	1	53	17.96	17.95	17.79	19.0	0.0
20	PI/2 BPSK	1	104	17.95	17.92	17.81		
20	PI/2 BPSK	50	0	17.90	17.97	17.80		
20	PI/2 BPSK	50	26	17.93	17.93	17.76	19.0	0.0
20	PI/2 BPSK	50	56	17.93	17.96	17.71		
20	PI/2 BPSK	100	0	17.93	17.92	17.74	19.0	0.0
20	QPSK	1	1	17.97	17.85	17.80		
20	QPSK	1	53	17.99	17.90	17.78	19.0	0.0
20	QPSK	1	104	17.97	17.96	17.72		
20	QPSK	50	0	17.92	17.89	17.79		
20	QPSK	50	28	17.99	17.92	17.80	19.0	0.0
20	QPSK	50	56	17.91	17.93	17.79		
20	QPSK	100	0	17.99	17.89	17.74	19.0	0.0
20	16QAM	1	1	17.95	17.77	17.74	19.0	0.0
20	64QAM	1	1	18.00	17.84	17.79	19.0	0.0
20	256QAM	1	1	17.95	17.90	17.79	19.0	0.0
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	PI/2 BPSK	1	1	17.90	17.99	17.76	19.0	0.0
Channel				133600	136100	138600		
Frequency (MHz)				668	680.5	693		
10	PI/2 BPSK	1	1	17.95	17.92	17.74	19.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	PI/2 BPSK	1	1	17.93	18.00	17.81	19.0	0.0



n66									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				348000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI/2 BPSK	1	1	13.10	13.12	13.10			
40	PI/2 BPSK	1	108	13.05	13.00	13.06	14.1	0.0	
40	PI/2 BPSK	1	214	13.07	13.01	13.01			
40	PI/2 BPSK	108	0	13.03	13.09	13.07			
40	PI/2 BPSK	108	54	13.01	13.00	13.06	14.1	0.0	
40	PI/2 BPSK	108	108	13.07	13.05	13.01			
40	PI/2 BPSK	216	0	13.07	13.04	13.04	14.1	0.0	
40	QPSK	1	1	13.01	13.09	13.04			
40	QPSK	1	108	13.02	13.05	13.00	14.1	0.0	
40	QPSK	1	214	13.07	13.09	13.03			
40	QPSK	108	0	13.01	13.01	13.06			
40	QPSK	108	54	13.05	13.01	13.03	14.1	0.0	
40	QPSK	108	108	13.09	13.08	13.10			
40	QPSK	216	0	13.07	13.09	13.07	14.1	0.0	
40	16QAM	1	1	13.02	13.05	13.00	14.1	0.0	
40	64QAM	1	1	13.06	12.97	13.01	14.1	0.0	
40	256QAM	1	1	13.02	12.78	13.05	14.1	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	PI/2 BPSK	1	1	13.01	13.07	13.03	14.1	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI/2 BPSK	1	1	13.10	13.07	13.05	14.1	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI/2 BPSK	1	1	13.05	13.07	13.01	14.1	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI/2 BPSK	1	1	13.00	13.09	13.00	14.1	0.0	



n41									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518598	528998			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.99	24.10	23.99			
100	PI/2 BPSK	1	137	23.92	23.94	23.99	25.0	0.0	
100	PI/2 BPSK	1	271	23.97	23.95	23.87			
100	PI/2 BPSK	135	0	24.02	24.02	23.87			
100	PI/2 BPSK	135	69	23.87	23.93	23.85	25.0	0.0	
100	PI/2 BPSK	135	138	23.87	23.99	23.98			
100	PI/2 BPSK	270	0	23.23	23.28	23.24	24.5	0.5	
100	QPSK	1	1	23.88	23.92	23.77			
100	QPSK	1	137	23.94	23.94	23.99	25.0	0.0	
100	QPSK	1	271	23.87	23.79	23.83			
100	QPSK	135	0	23.79	23.88	23.76			
100	QPSK	135	69	23.94	23.94	23.97	25.0	0.0	
100	QPSK	135	138	23.87	23.95	23.87			
100	QPSK	270	0	22.89	23.04	22.98	24.0	1.0	
100	16QAM	1	1	22.70	22.88	22.78	24.0	1.0	
100	64QAM	1	1	22.06	22.11	21.87	22.5	2.5	
100	256QAM	1	1	20.39	20.41	20.43	20.5	4.5	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	23.96	24.04	23.97	25.0	0.0	
Channel				507204	518598	528998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	23.98	24.07	23.94	25.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	23.94	24.04	23.82	25.0	0.0	
Channel				504204	518598	535998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	23.97	24.00	23.98	25.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	23.94	24.08	23.97	25.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	23.95	24.07	23.98	25.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2692.48			
15	PI/2 BPSK	1	1	23.99	24.03	23.92	25.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	PI/2 BPSK	1	1	23.92	24.02	23.90	25.0	0.0	



n41 ANT 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50202	51898	53800		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	24.34	24.60	24.42		
100	PI/2 BPSK	1	137	24.22	24.19	24.16	25.0	0.0
100	PI/2 BPSK	1	271	24.18	24.33	24.23		
100	PI/2 BPSK	135	0	24.00	24.36	24.12		
100	PI/2 BPSK	135	69	24.09	24.26	24.20	25.0	0.0
100	PI/2 BPSK	135	138	24.02	24.11	24.00		
100	PI/2 BPSK	270	0	23.19	23.36	23.27	24.5	0.5
100	QPSK	1	1	23.97	24.04	24.00		
100	QPSK	1	137	23.34	24.01	24.09	25.0	0.0
100	QPSK	1	271	24.08	24.12	24.06		
100	QPSK	135	0	24.02	24.02	23.85		
100	QPSK	135	69	24.07	24.01	23.95	25.0	0.0
100	QPSK	135	138	24.14	24.21	24.12		
100	QPSK	270	0	23.14	23.07	23.15	24.0	1.0
100	16QAM	1	1	22.83	22.86	22.70	24.0	1.0
100	64QAM	1	1	22.37	22.32	22.50	22.5	2.5
100	256QAM	1	1	20.40	20.47	20.48	20.5	4.5
Channel				508200	518988	528996	↑↑↑↑↑↑	MPR
Frequency (MHz)				2541	2592.99	2644.68	↑↑↑↑↑↑	
90	PI/2 BPSK	1	1	24.29	24.50	24.42	25.0	0.0
Channel				507204	518990	528996	↑↑↑↑↑↑	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	↑↑↑↑↑↑	
80	PI/2 BPSK	1	1	24.25	24.54	24.37	25.0	0.0
Channel				505200	518988	531996	↑↑↑↑↑↑	MPR
Frequency (MHz)				2526	2592.99	2659.98	↑↑↑↑↑↑	
60	PI/2 BPSK	1	1	24.32	24.55	24.32	25.0	0.0
Channel				504204	518988	535996	↑↑↑↑↑↑	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	↑↑↑↑↑↑	
50	PI/2 BPSK	1	1	24.34	24.57	24.35	25.0	0.0
Channel				503202	518988	534000	↑↑↑↑↑↑	MPR
Frequency (MHz)				2516.01	2592.99	2670	↑↑↑↑↑↑	
40	PI/2 BPSK	1	1	24.30	24.59	24.36	25.0	0.0
Channel				501204	518988	535996	↑↑↑↑↑↑	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	↑↑↑↑↑↑	
20	PI/2 BPSK	1	1	24.33	24.56	24.34	25.0	0.0
Channel				500700	518988	535496	↑↑↑↑↑↑	MPR
Frequency (MHz)				2501.5	2592.99	2682.48	↑↑↑↑↑↑	
15	PI/2 BPSK	1	1	24.27	24.52	24.32	25.0	0.0
Channel				500202	518988	537000	↑↑↑↑↑↑	MPR
Frequency (MHz)				2501.01	2592.99	2685	↑↑↑↑↑↑	
10	PI/2 BPSK	1	1	24.29	24.54	24.36	25.0	0.0



n41									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50202	518598	528099			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.51	18.63	18.52			
100	PI/2 BPSK	1	137	18.49	18.47	18.42	19.6	0.0	
100	PI/2 BPSK	1	271	18.49	18.43	18.44			
100	PI/2 BPSK	135	0	18.51	18.52	18.44			
100	PI/2 BPSK	135	69	18.49	18.49	18.45	19.6	0.0	
100	PI/2 BPSK	135	138	18.46	18.50	18.49			
100	PI/2 BPSK	270	0	18.52	18.48	18.49	19.6	0.0	
100	QPSK	1	1	18.50	18.51	18.48			
100	QPSK	1	137	18.49	18.52	18.44	19.6	0.0	
100	QPSK	1	271	18.51	18.45	18.49			
100	QPSK	135	0	18.42	18.46	18.44			
100	QPSK	135	69	18.45	18.52	18.49	19.6	0.0	
100	QPSK	135	138	18.52	18.52	18.48			
100	QPSK	270	0	18.47	18.43	18.42	19.6	0.0	
100	16QAM	1	1	18.44	18.47	18.50	19.6	0.0	
100	64QAM	1	1	18.51	18.52	18.47	19.6	0.0	
100	256QAM	1	1	18.50	18.42	18.52	19.6	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	18.51	18.52	18.46	19.6	0.0	
Channel				507204	518598	528996			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	18.50	18.51	18.44	19.6	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	18.51	18.52	18.46	19.6	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	18.47	18.50	18.49	19.6	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	18.48	18.49	18.47	19.6	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	18.45	18.50	18.42	19.6	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.3	2592.99	2692.45			
15	PI/2 BPSK	1	1	18.47	18.50	18.45	19.6	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	PI/2 BPSK	1	1	18.50	18.51	18.42	19.6	0.0	



n41 ANT 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50202	51898	53800		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.07	17.11	17.08		
100	PI/2 BPSK	1	137	17.04	17.08	17.03	18.1	0.0
100	PI/2 BPSK	1	271	17.06	17.06	17.02		
100	PI/2 BPSK	135	0	17.00	17.09	17.05		
100	PI/2 BPSK	135	89	17.02	17.05	17.00	18.1	0.0
100	PI/2 BPSK	135	138	17.01	17.08	17.02		
100	PI/2 BPSK	270	0	17.05	17.06	17.04	18.0	0.0
100	QPSK	1	1	17.08	17.05	17.08		
100	QPSK	1	137	17.07	17.01	16.98	18.1	0.0
100	QPSK	1	271	17.06	17.06	17.00		
100	QPSK	135	0	17.04	17.05	17.05		
100	QPSK	135	89	17.07	17.06	17.06	18.1	0.0
100	QPSK	135	138	17.00	17.10	17.02		
100	QPSK	270	0	17.01	17.03	16.98	18.0	0.0
100	16QAM	1	1	17.05	17.03	16.99	18.0	0.0
100	64QAM	1	1	17.06	17.05	17.06	18.0	0.0
100	256QAM	1	1	17.02	17.08	17.06	18.0	0.0
Channel				508200	518988	528996	↑↑↑↑↑↑	MPR
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	17.02	17.08	17.03	18.1	0.0
Channel				507204	518998	528996	↑↑↑↑↑↑	MPR
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	16.98	16.98	16.98	18.1	0.0
Channel				505200	518998	531996	↑↑↑↑↑↑	MPR
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	17.07	17.05	17.01	18.1	0.0
Channel				504204	518998	532996	↑↑↑↑↑↑	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	17.08	17.00	17.06	18.1	0.0
Channel				503202	518998	534000	↑↑↑↑↑↑	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	17.08	17.08	17.00	18.1	0.0
Channel				501204	518998	535996	↑↑↑↑↑↑	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	17.06	17.07	17.04	18.1	0.0
Channel				500700	518998	536496	↑↑↑↑↑↑	MPR
Frequency (MHz)				2501.5	2592.99	2682.48		
15	PI/2 BPSK	1	1	17.01	17.08	17.02	18.1	0.0
Channel				500202	518998	537000	↑↑↑↑↑↑	MPR
Frequency (MHz)				2501.01	2592.99	2685		
10	PI/2 BPSK	1	1	17.01	17.07	17.04	18.1	0.0



n41								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	10.37	10.56	10.44		
100	PI/2 BPSK	1	137	10.34	10.47	10.40	11.3	0.0
100	PI/2 BPSK	1	271	10.34	10.53	10.40		
100	PI/2 BPSK	135	0	10.33	10.54	10.35		
100	PI/2 BPSK	135	69	10.34	10.52	10.43	11.3	0.0
100	PI/2 BPSK	135	138	10.31	10.52	10.38		
100	PI/2 BPSK	270	0	10.32	10.42	10.35	11.3	0.0
100	QPSK	1	1	10.28	10.52	10.36		
100	QPSK	1	137	10.27	10.47	10.42	11.3	0.0
100	QPSK	1	271	10.32	10.47	10.40		
100	QPSK	135	0	10.33	10.51	10.39		
100	QPSK	135	69	10.36	10.55	10.43	11.3	0.0
100	QPSK	135	138	10.37	10.54	10.44		
100	QPSK	270	0	10.31	10.48	10.38	11.3	0.0
100	16QAM	1	1	10.29	10.46	10.44	11.3	0.0
100	64QAM	1	1	10.32	10.50	10.35	11.3	0.0
100	256QAM	1	1	10.29	10.42	10.35	11.3	0.0
Channel				508200	518598	528096		
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	10.31	10.52	10.40	11.3	0.0
Channel				507204	518598	528998		
Frequency (MHz)				2538.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	10.30	10.55	10.42	11.3	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	10.34	10.55	10.34	11.3	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2524.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	10.34	10.55	10.34	11.3	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	10.27	10.55	10.39	11.3	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	10.35	10.54	10.36	11.3	0.0
Channel				500700	518598	538496		
Frequency (MHz)				2503.0	2592.99	2682.48		
15	PI/2 BPSK	1	1	10.34	10.52	10.34	11.3	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	PI/2 BPSK	1	1	10.32	10.48	10.44	11.3	0.0



n41 ANT 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2545.01	2592.99	2640			
100	PI/2 BPSK	1	1	9.50	9.60	9.54			
100	PI/2 BPSK	1	137	9.50	9.56	9.43	10.5	0.0	
100	PI/2 BPSK	1	271	9.48	9.55	9.49			
100	PI/2 BPSK	135	0	9.43	9.53	9.42			
100	PI/2 BPSK	135	69	9.48	9.50	9.43	10.5	0.0	
100	PI/2 BPSK	135	138	9.43	9.52	9.47			
100	PI/2 BPSK	270	0	9.48	9.54	9.50	10.5	0.0	
100	QPSK	1	1	9.47	9.52	9.51			
100	QPSK	1	137	9.44	9.50	9.48	10.5	0.0	
100	QPSK	1	271	9.49	9.53	9.42			
100	QPSK	135	0	9.48	9.51	9.42			
100	QPSK	135	69	9.42	9.53	9.52	10.5	0.0	
100	QPSK	135	138	9.46	9.56	9.43			
100	QPSK	270	0	9.45	9.58	9.45	10.5	0.0	
100	16QAM	1	1	9.48	9.56	9.44	10.5	0.0	
100	64QAM	1	1	9.48	9.53	9.46	10.5	0.0	
100	256QAM	1	1	9.45	9.50	9.43	10.5	0.0	
Channel				508200	518598	528098	↑time-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	9.47	9.50	9.52	10.5	0.0	
Channel				507204	518598	528098	↑time-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2536.02	2592.99	2648.98			
80	PI/2 BPSK	1	1	9.42	9.51	9.44	10.5	0.0	
Channel				505200	518598	531998	↑time-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	9.47	9.49	9.52	10.5	0.0	
Channel				504204	518598	532098	↑time-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2521.02	2592.99	2664.98			
50	PI/2 BPSK	1	1	9.52	9.45	9.45	10.5	0.0	
Channel				503202	518598	534000	↑time-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	9.44	9.48	9.45	10.5	0.0	
Channel				501204	518598	533098	↑time-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	9.51	9.51	9.50	10.5	0.0	
Channel				500700	518598	534498	↑time-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2503.5	2592.99	2682.48			
15	PI/2 BPSK	1	1	9.52	9.49	9.51	10.5	0.0	
Channel				500202	518598	537000	↑time-up limit (dBm)	MPR	(dB)
Frequency (MHz)				2501.01	2592.99	2685			
10	PI/2 BPSK	1	1	9.43	9.52	9.42	10.5	0.0	



2.4GHz WLAN		Ant 2				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	13.00	13.50	99.04	
	6	2437	13.00	13.50		
	11	2462	13.20	13.50		
802.11g 6Mbps	1	2412	Not required	13.50	Not required	
	6	2437		13.50		
	11	2462		13.50		
802.11n-HT20 MCS0	1	2412		13.50		
	6	2437		13.50		
	11	2462		13.50		
802.11n-HT40 MCS0	3	2422		13.50		
	6	2437		13.50		
	9	2452		13.50		

5GHz WLAN		Ant 2				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	Not required	10.00	Not required	
	40	5200		10.00		
	44	5220		10.00		
	48	5240		10.00		
802.11n-HT20 MCS0	36	5180		10.00		
	40	5200		10.00		
	44	5220		10.00		
802.11n-HT40 MCS0	38	5190		10.00		
	46	5230		10.00		
802.11ac-VHT20 MCS0	36	5180		10.00		
	40	5200		10.00		
	44	5220		10.00		
802.11ac-VHT40 MCS0	48	5240		10.00		
	38	5190		10.00		
802.11ac-VHT80 MCS0	46	5230		10.00		
	42	5210		10.00		

5GHz WLAN		Ant 2				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	Not required	10.00	Not required	
	56	5280		10.00		
	60	5300		10.00		
	64	5320		10.00		
802.11n-HT20 MCS0	52	5260		10.00		
	56	5280		10.00		
	60	5300		10.00		
802.11n-HT40 MCS0	64	5320		10.00		
	54	5270		9.70		95.18
802.11ac-VHT20 MCS0	62	5310		9.70		
	52	5260	Not required	10.00	Not required	
	56	5280		10.00		
	60	5300		10.00		
64	5320	10.00				
802.11ac-VHT40 MCS0	54	5270	10.00			
	62	5310	10.00			
802.11ac-VHT80 MCS0	58	5290	9.60	10.00	92.00	



5GHz WLAN		Ant 2							
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %			
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	10.00	Not required			
		116	5580		10.00				
		124	5620		10.00				
		132	5660		10.00				
		144	5720		10.00				
	802.11n-HT20 MCS0	100	5500		10.00				
		116	5580		10.00				
		124	5620		10.00				
		132	5660		10.00				
	802.11n-HT40 MCS0	102	5510		10.00				
		110	5550		10.00				
		126	5630		10.00				
		134	5670		10.00				
	802.11ac-VHT20 MCS0	142	5710		10.00				
		100	5500		10.00				
		116	5580		10.00				
		124	5620		10.00				
	802.11ac-VHT40 MCS0	132	5660		10.00				
		144	5720		10.00				
		102	5510		10.00				
		110	5550		10.00				
	802.11ac-VHT80 MCS0	126	5630		9.50		10.00	92.00	
		134	5670		9.30		10.00		
		142	5710		9.70		10.00		
		106	5530		9.50		10.00		
			122		5610		9.30	10.00	
			138		5690		9.70	10.00	

5GHz WLAN		Ant 2						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	10.50	Not required		
		157	5785		10.50			
		165	5825		10.50			
	802.11n-HT20 MCS0	149	5745		10.50			
		157	5785		10.50			
		165	5825		10.50			
	802.11n-HT40 MCS0	151	5755		10.20		10.50	95.18
		159	5795		10.10		10.50	
	802.11ac-VHT20 MCS0	149	5745		Not required		10.50	Not required
		157	5785				10.50	
		165	5825				10.50	
	802.11ac-VHT40 MCS0	151	5755				10.50	
		159	5795				10.50	
	802.11ac-VHT80 MCS0	155	5775				10.10	



2.4GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	12.80	13.50	98.25
		6	2437	12.90	13.50	
		11	2462	12.80	13.50	
	802.11g 6Mbps	1	2412	Not required	13.50	Not required
		6	2437		13.50	
		11	2462		13.50	
	802.11n-HT20 MCS0	1	2412		13.50	
		6	2437		13.50	
		11	2462		13.50	
802.11n-HT40 MCS0	3	2422	13.50			
	6	2437	13.50			
	9	2452	13.50			

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	10.00	Not required
		40	5200		10.00	
		44	5220		10.00	
		48	5240		10.00	
	802.11n-HT20 MCS0	36	5180		10.00	
		40	5200		10.00	
		44	5220		10.00	
	802.11n-HT40 MCS0	38	5190		10.00	
		46	5230		10.00	
	802.11ac-VHT20 MCS0	36	5180		10.00	
		40	5200		10.00	
		44	5220		10.00	
	802.11ac-VHT40 MCS0	48	5240		10.00	
		38	5190		10.00	
	802.11ac-VHT80 MCS0	46	5230		10.00	
		42	5210		10.00	

5GHz WLAN		Ant 1						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %			
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	10.00	Not required		
		56	5280		10.00			
		60	5300		10.00			
		64	5320		10.00			
	802.11n-HT20 MCS0	52	5260		10.00			
		56	5280		10.00			
		60	5300		10.00			
	802.11n-HT40 MCS0	64	5320		10.00			
		54	5270		9.10		10.00	95.76
	802.11ac-VHT20 MCS0	62	5310		9.00		10.00	
		52	5260		Not required		10.00	Not required
		56	5280				10.00	
		60	5300				10.00	
	64	5320	10.00					
802.11ac-VHT40 MCS0	54	5270	10.00					
	62	5310	10.00					
802.11ac-VHT80 MCS0	58	5290	9.50	10.00	91.94			



5GHz WLAN		Ant 1				
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	10.00	Not required
		116	5580		10.00	
		124	5620		10.00	
		132	5660		10.00	
		144	5720		10.00	
	802.11n-HT20 MCS0	100	5500		10.00	
		116	5580		10.00	
		124	5620		10.00	
		132	5660		10.00	
		144	5720		10.00	
	802.11n-HT40 MCS0	102	5510		10.00	
		110	5550		10.00	
		126	5630		10.00	
		134	5670		10.00	
		142	5710		10.00	
	802.11ac-VHT20 MCS0	100	5500		10.00	
		116	5580		10.00	
		124	5620		10.00	
		132	5660		10.00	
		144	5720		10.00	
	802.11ac-VHT40 MCS0	102	5510		10.00	
		110	5550		10.00	
		126	5630		10.00	
		134	5670		10.00	
142		5710	10.00			
802.11ac-VHT80 MCS0	106	5530	9.10	10.00	91.94	
	122	5610	9.50	10.00		
	138	5690	9.40	10.00		

5GHz WLAN		Ant 1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	10.50	Not required		
		157	5785		10.50			
		165	5825		10.50			
	802.11n-HT20 MCS0	149	5745		10.50			
		157	5785		10.50			
		165	5825		10.50			
	802.11n-HT40 MCS0	151	5755		9.70		10.50	95.76
		159	5795		9.80		10.50	
	802.11ac-VHT20 MCS0	149	5745		Not required		10.50	Not required
		157	5785				10.50	
		165	5825				10.50	
	802.11ac-VHT40 MCS0	151	5755				10.50	
		159	5795				10.50	
	802.11ac-VHT80 MCS0	155	5775				10.00	



2.4GHz WLAN		ANT 1+2				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	Not required	16.50	Not required
		6	2437		16.50	
		11	2462		16.50	
	802.11g 6Mbps	1	2412		16.50	
		6	2437		16.50	
		11	2462		16.50	
	802.11n-HT20 MCS0	1	2412		16.50	
		6	2437		16.50	
		11	2462		16.50	
	802.11n-HT40 MCS0	3	2422		16.50	
		6	2437		16.50	
		9	2452		16.50	

5GHz WLAN		ANT 1+2				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	13.00	Not required
		40	5200		13.00	
		44	5220		13.00	
		48	5240		13.00	
	802.11n-HT20 MCS0	36	5180		13.00	
		40	5200		13.00	
		44	5220		13.00	
	802.11n-HT40 MCS0	38	5190		13.00	
		46	5230		13.00	
	802.11ac-VHT20 MCS0	36	5180		13.00	
		40	5200		13.00	
		44	5220		13.00	
	802.11ac-VHT40 MCS0	38	5190		13.00	
		46	5230		13.00	
	802.11ac-VHT80 MCS0	42	5210		13.00	

5GHz WLAN		ANT 1+2				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	13.00	Not required
		56	5280		13.00	
		60	5300		13.00	
		64	5320		13.00	
	802.11n-HT20 MCS0	52	5260		13.00	
		56	5280		13.00	
		60	5300		13.00	
	802.11n-HT40 MCS0	54	5270		13.00	
		62	5310		13.00	
	802.11ac-VHT20 MCS0	52	5260		13.00	
		56	5280		13.00	
		60	5300		13.00	
		64	5320		13.00	
	802.11ac-VHT40 MCS0	54	5270		13.00	
		62	5310		13.00	
	802.11ac-VHT80 MCS0	58	5290		13.00	



5GHz WLAN		ANT 1+2				
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	13.00	Not required
		116	5580		13.00	
		124	5620		13.00	
		132	5660		13.00	
		144	5720		13.00	
	802.11n-HT20 MCS0	100	5500		13.00	
		116	5580		13.00	
		124	5620		13.00	
		132	5660		13.00	
		144	5720		13.00	
	802.11n-HT40 MCS0	102	5510		13.00	
		110	5550		13.00	
		126	5630		13.00	
		134	5670		13.00	
		142	5710		13.00	
	802.11ac-VHT20 MCS0	100	5500		13.00	
		116	5580		13.00	
		124	5620		13.00	
		132	5660		13.00	
		144	5720		13.00	
802.11ac-VHT40 MCS0	102	5510	13.00			
	110	5550	13.00			
	126	5630	13.00			
	134	5670	13.00			
	142	5710	13.00			
802.11ac-VHT80 MCS0	106	5530	13.00			
	122	5610	13.00			
	138	5690	13.00			

5GHz WLAN		Ant 1+2				
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	13.50	Not required
		157	5785		13.50	
		165	5825		13.50	
	802.11n-HT20 MCS0	149	5745		13.50	
		157	5785		13.50	
		165	5825		13.50	
	802.11n-HT40 MCS0	151	5755		13.50	
		159	5795		13.50	
	802.11ac-VHT20 MCS0	149	5745		13.50	
		157	5785		13.50	
		165	5825		13.50	
	802.11ac-VHT40 MCS0	151	5755		13.50	
		159	5795		13.50	
	802.11ac-VHT80 MCS0	155	5775		13.50	



Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	5.11	6.42	6.57
	CH 39	2441	3.71	5.02	5.03
	CH 78	2480	5.33	6.56	6.62
Tune-up Limit			5.50	7.00	7.00

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	4.70	4.70
	CH 19	2440	3.60	3.50
	CH 39	2480	5.00	5.00
Tune-up Limit			5.50	5.50