



Full Power Mode

<GSM>

TX Channel	Burst Average Power (dBm)				Tune-up Limit	Frame Average Power (dBm)				Tune-up Limit		
	128	189	251	Limit		128	189	251	Limit			
Frequency (MHz)	894.2	898.4	902.6	(dBm)	894.2	898.4	902.6	(dBm)	894.2	898.4	902.6	(dBm)
GSM 1 Tx slot	32.71	32.75	32.70	34.00	23.71	23.75	23.70	25.00				
GPRS-EDGE(GSM) 1 Tx slot	32.70	32.73	32.68	34.00	23.70	23.73	23.65	25.00				
GPRS-EDGE(GSM) 2 Tx slots	30.63	30.64	30.62	32.00	21.60	21.64	21.62	23.00				
GPRS-EDGE(GSM) 3 Tx slots	29.10	29.14	29.04	30.00	20.84	20.88	20.78	22.00				
GPRS-EDGE(GSM) 4 Tx slots	26.94	26.93	26.88	28.00	19.94	19.93	19.88	20.00				
EDGE 1 Tx slot	23.89	23.88	23.85	25.00	17.89	17.88	17.85	19.00				
EDGE 2 Tx slots	25.01	25.02	24.87	26.00	19.01	19.02	18.87	20.00				
EDGE 3 Tx slots	22.75	22.89	22.77	24.00	16.89	16.83	16.81	17.74				
EDGE 4 Tx slots	20.45	20.35	20.37	22.00	14.45	14.35	14.37	15.00				

TX Channel	Burst Average Power (dBm)				Tune-up Limit	Frame Average Power (dBm)				Tune-up Limit		
	512	661	810	Limit		512	661	810	Limit			
Frequency (MHz)	1650.2	1650	1650.8	(dBm)	1650.2	1650	1650.8	(dBm)	1650.2	1650	1650.8	(dBm)
GSM 1 Tx slot	30.19	30.01	30.12	31.00	21.19	21.01	21.12	22.00				
GSM 1 Tx slot	30.17	30.02	30.09	31.00	21.17	21.02	21.09	22.00				
GPRS-EDGE(GSM) 1 Tx slot	27.58	27.41	27.51	28.50	18.58	18.41	18.51	19.50				
GPRS-EDGE(GSM) 2 Tx slots	26.54	26.55	26.50	27.00	17.54	17.55	17.50	18.00				
GPRS-EDGE(GSM) 3 Tx slots	24.57	24.39	24.50	25.50	15.57	15.39	15.50	16.50				
GPRS-EDGE(GSM) 4 Tx slots	26.18	26.20	26.10	27.00	17.18	17.20	17.10	18.00				
EDGE 1 Tx slot	24.44	24.41	24.38	25.00	16.44	16.41	16.38	17.00				
EDGE 2 Tx slots	22.77	22.81	22.47	23.50	15.51	15.35	15.21	16.24				
EDGE 3 Tx slots	20.69	20.57	20.50	21.50	13.69	13.57	13.50	14.50				

<GSM>

TX Channel	Burst Average Power (dBm)				Tune-up Limit	Frame Average Power (dBm)				Tune-up Limit		
	128	189	251	Limit		128	189	251	Limit			
Frequency (MHz)	894.2	898.4	902.6	(dBm)	894.2	898.4	902.6	(dBm)	894.2	898.4	902.6	(dBm)
GSM 1 Tx slot	32.30	32.43	32.42	33.50	23.30	23.43	23.42	24.50				
GPRS-EDGE(GSM) 1 Tx slot	32.26	32.42	32.41	33.50	23.26	23.42	23.41	24.50				
GPRS-EDGE(GSM) 2 Tx slots	30.19	30.35	30.34	31.50	21.19	21.35	21.34	22.50				
GPRS-EDGE(GSM) 3 Tx slots	28.60	28.72	28.79	29.50	20.60	20.72	20.79	21.50				
GPRS-EDGE(GSM) 4 Tx slots	26.37	26.52	26.62	27.50	18.37	18.52	18.62	19.50				
EDGE 1 Tx slot	26.37	26.62	26.61	27.50	18.37	18.62	18.61	19.50				
EDGE 2 Tx slots	24.56	24.61	24.65	25.50	16.56	16.61	16.65	17.50				
EDGE 3 Tx slots	22.26	22.34	22.31	23.50	14.26	14.34	14.31	15.00				
EDGE 4 Tx slots	19.91	20.03	20.16	21.50	11.91	12.03	12.16	13.00				

TX Channel	Burst Average Power (dBm)				Tune-up Limit	Frame Average Power (dBm)				Tune-up Limit		
	512	661	810	Limit		512	661	810	Limit			
Frequency (MHz)	1650.2	1650	1650.8	(dBm)	1650.2	1650	1650.8	(dBm)	1650.2	1650	1650.8	(dBm)
GSM 1 Tx slot	29.80	29.76	29.85	30.50	20.80	20.76	20.85	21.50				
GSM 1 Tx slot	29.85	29.76	29.85	30.50	20.85	20.76	20.85	21.50				
GPRS-EDGE(GSM) 1 Tx slot	27.26	27.18	27.36	28.00	18.26	18.18	18.36	19.00				
GPRS-EDGE(GSM) 2 Tx slots	26.23	26.17	26.36	27.00	17.23	17.17	17.36	18.00				
GPRS-EDGE(GSM) 3 Tx slots	24.23	24.14	24.35	25.00	15.23	15.14	15.35	16.00				
GPRS-EDGE(GSM) 4 Tx slots	25.88	26.07	26.24	27.00	16.88	17.07	17.24	18.00				
EDGE 1 Tx slot	24.37	24.46	24.68	25.00	16.37	16.46	16.68	17.00				
EDGE 2 Tx slots	22.55	22.64	22.69	23.50	14.55	14.64	14.69	15.50				
EDGE 3 Tx slots	20.55	20.62	20.61	21.50	12.55	12.62	12.61	13.50				

<WCDMA>

Band	TX Channel	Rx Channel	WCDMA II_Ant.13				WCDMA IV_Ant.13				WCDMA V_Ant.13					
			1862.4	1860	1857.6	1860.6	1712.4	1712.6	1712.6	1712.6	4132	4182	4233	Limit		
Frequency (MHz)	9682	9600	9538	(dBm)	9682	9600	9538	(dBm)	9682	9600	9538	(dBm)	9682	9600	9538	(dBm)
SGPP Rel 99	AMR 12.2kps	23.59	23.61	23.60	24.50	23.36	23.42	23.38	24.50	23.23	23.30	23.26	24.50			
SGPP Rel 99	PMR 12.2kps	23.60	23.62	23.61	24.50	23.38	23.50	23.40	24.50	23.25	23.32	23.30	24.50			
SGPP Rel 6	HSDPA Subtest-1	22.66	22.61	22.71	23.50	22.42	22.48	22.40	23.50	22.37	22.39	22.47	23.50			
SGPP Rel 6	HSDPA Subtest-2	22.54	22.56	22.67	23.50	22.51	22.46	22.42	23.50	22.40	22.42	22.25	23.50			
SGPP Rel 6	HSDPA Subtest-3	22.08	22.06	22.11	23.00	21.96	21.85	21.98	23.00	21.85	21.98	21.72	23.00			
SGPP Rel 6	HSDPA Subtest-4	22.12	22.01	22.08	23.00	22.06	21.85	22.00	23.00	21.91	21.93	21.70	23.00			
SGPP Rel 8	DC-HSDPA Subtest-1	22.66	22.55	22.67	23.50	22.36	22.43	22.38	23.50	22.30	22.35	22.41	23.50			
SGPP Rel 8	DC-HSDPA Subtest-2	22.52	22.53	22.62	23.50	22.48	22.44	22.38	23.50	22.38	22.40	22.20	23.50			
SGPP Rel 8	DC-HSDPA Subtest-3	22.03	22.03	22.09	23.00	21.89	21.81	21.93	23.00	21.88	21.94	21.69	23.00			
SGPP Rel 8	DC-HSDPA Subtest-4	22.06	21.94	22.04	23.00	22.04	21.81	21.96	23.00	21.85	21.86	21.87	23.00			
SGPP Rel 6	HSUPA Subtest-1	20.70	20.63	20.67	21.50	20.38	20.49	20.44	21.50	20.39	20.46	20.45	21.50			
SGPP Rel 6	HSUPA Subtest-2	20.73	20.68	20.65	21.50	20.41	20.43	20.38	21.50	20.37	20.42	20.41	21.50			
SGPP Rel 6	HSUPA Subtest-3	21.71	21.84	21.75	22.50	21.43	21.47	21.45	22.50	20.36	20.35	20.40	23.50			
SGPP Rel 6	HSUPA Subtest-4	20.69	20.71	20.78	21.00	19.94	20.01	19.99	21.00	20.63	20.65	20.60	22.00			
SGPP Rel 6	HSUPA Subtest-5	21.60	21.60	21.60	22.50	21.37	21.40	21.38	22.50	22.27	22.27	22.30	23.50			
SGPP Rel 7	HSPA+ (16QAM) Subtest-1	20.65	20.74	20.62	21.50	20.45	20.50	20.54	21.50	21.35	21.44	21.40	22.50			

Band	TX Channel	Rx Channel	WCDMA II_Ant.31				WCDMA IV_Ant.31				WCDMA V_Ant.31					
			1862.4	1860	1857.6	1860.6	1712.4	1712.6	1712.6	1712.6	4132	4182	4233	Limit		
Frequency (MHz)	9682	9600	9538	(dBm)	9682	9600	9538	(dBm)	9682	9600	9538	(dBm)	9682	9600	9538	(dBm)
SGPP Rel 99	AMR 12.2kps	23.22	23.31	23.29	24.00	23.02	23.14	23.12	24.00	23.22	23.24	23.20	24.00			
SGPP Rel 99	RMC 12.2kps	23.24	23.32	23.31	24.00	23.05	23.16	23.14	24.00	23.25	23.26	23.23	24.00			
SGPP Rel 6	HSDPA Subtest-1	22.27	22.27	22.45	23.00	22.02	22.16	22.10	23.00	22.23	22.25	22.30	23.00			
SGPP Rel 6	HSDPA Subtest-2	22.14	22.13	22.17	23.00	21.91	22.05	22.10	23.00	22.15	22.13	22.11	23.00			
SGPP Rel 6	HSDPA Subtest-3	21.79	21.65	21.78	22.50	21.44	21.53	21.63	22.50	21.66	21.78	21.69	22.50			
SGPP Rel 6	HSDPA Subtest-4	21.68	21.61	21.77	22.50	21.50	21.60	21.64	22.50	21.66	21.62	21.67	22.50			
SGPP Rel 8	DC-HSDPA Subtest-1	22.23	22.20	22.40	23.00	22.00	22.10	22.03	23.00	22.19	22.23	22.27	23.00			
SGPP Rel 8	DC-HSDPA Subtest-2	22.07	22.06	22.12	23.00	21.84	21.99	22.06	23.00	22.11	22.08	22.07	23.00			
SGPP Rel 8	DC-HSDPA Subtest-3	21.75	21.63	21.75	22.50	21.40	21.49	21.57	22.50	21.61	21.73	21.67	22.50			
SGPP Rel 8	DC-HSDPA Subtest-4	21.63	21.58	21.74	22.50	21.44	21.55	21.57	22.50	21.62	21.57	21.63	22.50			
SGPP Rel 6	HSUPA Subtest-1	20.37	20.23	20.52	21.20	20.11	20.18	20.17	21.00	20.17	20.58	20.10	22.50			
SGPP Rel 6	HSUPA Subtest-2	20.28	20.27	20.42	21.20	20.09	20.14	20.13	21.00	20.00	21.07	20.00	22.50			
SGPP Rel 6	HSUPA Subtest-3	21.27	21.28	21.48	22.00	21.06	21.17	21.15	22.00	21.04	22.00	21.92	23.00			
SGPP Rel 6	HSUPA Subtest-4	19.89	19.72	20.01	20.50	19.57	19.60	19.61								



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)								
20	QPSK	1	0	23.35	23.42	23.35	24.6	0
20	QPSK	1	49	23.35	23.42	23.35		
20	QPSK	1	99	23.34	23.31	23.37		
20	QPSK	50	0	22.33	22.40	22.33		
20	QPSK	24	24	22.33	22.33	22.33	23.6	1
20	QPSK	50	50	22.29	22.34	22.20		
20	QPSK	100	0	22.48	22.50	22.38		
20	QPSK	1	0	22.32	22.43	22.31		
20	16QAM	1	49	22.75	22.82	22.74	23.6	1
20	16QAM	1	99	22.35	22.41	22.38		
20	16QAM	50	0	21.45	21.45	21.31		
20	16QAM	50	24	21.30	21.43	21.42		
20	16QAM	100	0	21.20	21.29	21.19	22.6	2
20	16QAM	100	0	21.24	21.32	21.30		
20	64QAM	1	0	21.58	21.60	21.60		
20	64QAM	1	49	21.79	21.89	21.80		
20	64QAM	1	21	21.43	21.45	21.39	21.6	3
20	64QAM	50	0	20.45	20.49	20.40		
20	64QAM	50	50	20.41	20.32	20.38		
20	64QAM	100	0	20.25	20.39	20.38		
Channel Frequency (MHz)								
15	QPSK	1	0	23.25	23.35	23.32	24.6	0
15	QPSK	1	37	23.46	23.43	23.44		
15	QPSK	1	74	23.27	23.26	23.13		
15	QPSK	36	0	22.19	22.37	22.20		
15	QPSK	36	36	22.50	22.40	22.40	23.6	1
15	QPSK	36	36	22.16	22.20	22.19		
15	QPSK	75	0	22.41	22.40	22.28		
15	16QAM	1	0	22.28	22.43	22.31		
15	16QAM	1	37	22.66	22.70	22.62	23.6	1
15	16QAM	1	74	22.24	22.28	22.28		
15	16QAM	36	0	21.41	21.30	21.27		
15	16QAM	36	20	21.23	21.39	21.28		
15	16QAM	36	39	21.14	21.17	21.14	22.6	2
15	16QAM	75	0	21.12	21.28	21.21		
15	64QAM	1	0	21.54	21.56	21.59		
15	64QAM	1	37	21.76	21.85	21.71		
15	64QAM	1	74	21.44	21.39	21.35	21.6	3
15	64QAM	36	0	20.41	20.44	20.37		
15	64QAM	36	20	20.36	20.41	20.23		
15	64QAM	39	20	20.29	20.19	20.20		
15	64QAM	75	0	20.10	20.34	20.28	Tune-up limit (dBm) MPR (dB)	
Channel Frequency (MHz)								
10	QPSK	1	0	23.24	23.34	23.25	24.6	0
10	QPSK	1	25	23.48	23.53	23.55		
10	QPSK	1	49	23.27	23.31	23.17		
10	QPSK	25	0	22.28	22.33	22.18		
10	QPSK	25	12	22.45	22.46	22.45	23.6	1
10	QPSK	25	25	22.21	22.31	22.19		
10	QPSK	50	0	22.47	22.38	22.24		
10	16QAM	1	0	22.31	22.32	22.23		
10	16QAM	1	49	22.33	22.32	22.37	23.6	1
10	16QAM	25	0	21.41	21.35	21.18		
10	16QAM	25	12	21.28	21.30	21.35		
10	16QAM	25	25	21.07	21.14	21.17		
10	16QAM	50	0	21.13	21.18	21.18	22.6	2
10	16QAM	50	0	21.08	21.63	21.58		
10	64QAM	1	25	21.71	21.89	21.70		
10	64QAM	1	49	21.64	21.42	21.38		
10	64QAM	1	74	21.41	21.42	21.38	21.6	3
10	64QAM	25	0	20.42	20.40	20.34		
10	64QAM	25	12	20.37	20.42	20.24		
10	64QAM	25	25	20.17	20.28	20.27		
10	64QAM	50	0	20.11	20.27	20.23	Tune-up limit (dBm) MPR (dB)	
Channel Frequency (MHz)								
5	QPSK	1	0	23.34	23.34	23.35	24.6	0
5	QPSK	1	12	23.51	23.54	23.50		
5	QPSK	1	24	23.30	23.38	23.23		
5	QPSK	12	0	22.18	22.35	22.27		
5	QPSK	12	7	22.49	22.50	22.37	23.6	1
5	QPSK	12	7	22.28	22.33	22.28		
5	QPSK	25	0	22.45	22.42	22.34		
5	16QAM	1	0	22.19	22.37	22.28		
5	16QAM	1	12	22.70	22.82	22.70	23.6	1
5	16QAM	1	24	22.25	22.34	22.35		
5	16QAM	12	0	21.30	21.44	21.24		
5	16QAM	12	7	21.24	21.28	21.41		
5	16QAM	12	13	21.12	21.21	21.07	22.6	2
5	16QAM	25	0	21.16	21.22	21.22		
5	16QAM	1	0	21.52	21.63	21.48		
5	64QAM	1	12	21.78	21.74	21.78		
5	64QAM	1	24	21.35	21.42	21.31	21.6	3
5	64QAM	12	0	20.41	20.42	20.25		
5	64QAM	12	7	20.29	20.43	20.25		
5	64QAM	12	13	20.14	20.27	20.11		
5	64QAM	25	0	20.16	20.29	20.33	Tune-up limit (dBm) MPR (dB)	
Channel Frequency (MHz)								
3	QPSK	1	0	23.28	23.29	23.33	24.6	0
3	QPSK	1	8	23.40	23.51	23.46		
3	QPSK	1	14	23.28	23.20	23.19		
3	QPSK	8	0	22.25	22.28	22.29		
3	QPSK	8	4	22.37	22.46	22.44	23.6	1
3	QPSK	8	7	22.29	22.22	22.12		
3	QPSK	15	0	22.33	22.45	22.23		
3	16QAM	1	0	22.23	22.35	22.23		
3	16QAM	1	8	22.70	22.72	22.70	23.6	1
3	16QAM	1	14	22.28	22.40	22.30		
3	16QAM	8	0	21.34	21.31	21.18		
3	16QAM	8	4	21.25	21.33	21.28		
3	16QAM	8	7	21.09	21.29	21.05	22.6	2
3	16QAM	15	0	21.21	21.27	21.20		
3	64QAM	1	0	21.52	21.68	21.48		
3	64QAM	1	8	21.78	21.74	21.75		
3	64QAM	1	14	21.21	21.43	21.32	21.6	3
3	64QAM	8	0	20.36	20.49	20.28		
3	64QAM	8	4	20.36	20.41	20.33		
3	64QAM	8	7	20.28	20.32	20.12		
3	64QAM	15	0	20.11	20.38	20.23	Tune-up limit (dBm) MPR (dB)	
Channel Frequency (MHz)								
1.4	QPSK	1	0	23.22	23.27	23.25	24.6	0
1.4	QPSK	1	3	23.50	23.52	23.50		
1.4	QPSK	1	5	23.27	23.29	23.17		
1.4	QPSK	3	0	23.18	23.30	23.33		
1.4	QPSK	3	1	23.29	23.33	23.24	23.6	1
1.4	QPSK	3	3	23.25	23.28	23.23		
1.4	QPSK	6	0	22.43	22.40	22.35		
1.4	16QAM	1	0	22.18	22.28	22.28		
1.4	16QAM	1	3	22.63	22.78	22.84	23.6	1
1.4	16QAM	1	5	22.30	22.29	22.33		
1.4	16QAM	3	0	22.33	22.45	22.38		
1.4	16QAM	3	1	22.38	22.48	22.35		
1.4	16QAM	3	3	22.48	22.41	22.27	22.6	2
1.4	16QAM	6	0	21.15	21.17	21.19		
1.4	64QAM	1	0	21.21	21.23	21.16		
1.4	64QAM	1	3	21.12	21.32	21.18		
1.4	64QAM	1	5	21.23	21.37	21.33	22.6	2
1.4	64QAM	3	0	21.24	21.18	21.23		
1.4	64QAM	3	1	21.09	21.19	21.09		
1.4	64QAM	3	3	21.17	21.24	21.21		
1.4	64QAM	6	0	20.24	20.39	20.34	Tune-up limit (dBm) MPR (dB)	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)								
20	QPSK	1	0	23.1	23.06	23.04	24	0
20	QPSK	1	49	23.1	23.06	23.04		
20	QPSK	1	99	23.1	23.09	23.04		
20	QPSK	50	0	22.27	22.35	22.25		
20	QPSK	24	24	22.27	22.27	22.21	23	1
20	QPSK	50	50	22.37	22.17	22.31		
20	QPSK	100	0	22.28	22.35	22.3		
20	16QAM	1	0	22.43	22.69	22.77		
20	16QAM	1	49	22.71	22.86	22.84	23	1
20	16QAM	1	99	22.4	22.38	22.55		
20	16QAM	50	0	21.19	21.45	21.23		
20	16QAM	50	24	21.38	21.44	21.34		
20	16QAM	100	0	21.29	21.23	21.21	22	2
20	16QAM	100	0	21.29	21.27	21.28		
20	64QAM	1	0	21.27	21.29	21.24		
20	64QAM	1	49	21.43	21.47	21.38		
20	64QAM	1	21	21.41	21.52	21.45	21	3
20	64QAM	50	0	20.17	20.45	20.25		
20	64QAM	50	50	20.45	20.45	20.44		
20	64QAM	100	0	20.45	20.31	20.2		
Channel Frequency (MHz)								
15	QPSK	1	0	23.09	22.98	22.96	24	0
15	QPSK	1	37	23.46	23.38	23.36		
15	QPSK	1	74	23.25	23.05	22.96		
15	QPSK	36	0	22.15	22.22	22.11		
15	QPSK	36	36	22.37	22.37	22.34	23	1
15	QPSK							



Band 4_Ant 13

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Modulo Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)								
20	QPSK	1	0	23.2	23.31	23.25	24.5	0
20	QPSK	1	49	23.23	23.3	23.18		
20	QPSK	1	99	23.27	23.18	23.17		
20	QPSK	50	0	22.41	22.37	22.49	23.5	1
20	QPSK	50	24	22.41	22.41	22.37		
20	QPSK	50	50	22.54	22.49	22.42		
20	QPSK	100	0	22.53	22.57	22.35	23.5	1
20	16QAM	1	0	22.78	22.84	22.69		
20	16QAM	1	49	22.73	22.02	22.88		
20	16QAM	1	99	22.83	22.78	22.8	23.5	1
20	16QAM	50	0	21.48	21.53	21.41		
20	16QAM	50	24	21.51	21.85	21.46		
20	16QAM	50	50	21.5	21.44	21.39	22.5	2
20	16QAM	100	0	21.39	21.41	21.27		
20	64QAM	1	0	21.59	21.8	21.89		
20	64QAM	1	49	21.87	21.73	21.58	22.5	2
20	64QAM	1	99	21.55	21.5	21.6		
20	64QAM	50	0	20.48	20.43	20.5		
20	64QAM	50	24	20.53	20.68	20.42	21.5	3
20	64QAM	50	50	20.53	20.52	20.42		
20	64QAM	100	0	20.5	20.44	20.4		
Channel Frequency (MHz)								
15	QPSK	1	0	23.14	23.26	23.13	24.5	0
15	QPSK	1	37	23.23	23.57	23.26		
15	QPSK	1	74	23.19	23.05	23.16		
15	QPSK	36	0	22.33	22.26	22.42	23.5	1
15	QPSK	36	25	22.45	22.35	22.52		
15	QPSK	36	59	22.42	22.48	22.38		
15	QPSK	75	0	22.44	22.48	22.21	23.5	1
15	16QAM	1	0	22.65	22.54	22.54		
15	16QAM	1	37	22.73	23.00	22.83		
15	16QAM	1	74	22.74	22.68	22.72	22.5	2
15	16QAM	36	0	21.48	21.45	21.36		
15	16QAM	36	20	21.48	21.55	21.33		
15	16QAM	36	59	21.42	21.36	21.29	21.5	3
15	16QAM	75	0	21.34	21.31	21.13		
15	64QAM	1	0	21.56	21.50	21.58		
15	64QAM	1	37	21.80	21.59	21.48	22.5	2
15	64QAM	1	74	21.49	21.38	21.03		
15	64QAM	36	0	20.34	20.42	20.35		
15	64QAM	36	20	20.55	20.56	20.38	21.5	3
15	64QAM	36	59	20.53	20.44	20.40		
15	64QAM	75	0	20.42	20.31	20.38		
Channel Frequency (MHz)								
10	QPSK	1	0	23.06	23.19	23.15	24.5	0
10	QPSK	1	25	23.52	23.51	23.26		
10	QPSK	1	49	23.27	23.05	23.03		
10	QPSK	25	0	22.41	22.30	22.40	23.5	1
10	QPSK	25	12	22.48	22.83	22.52		
10	QPSK	25	25	22.42	22.42	22.30		
10	QPSK	50	0	22.38	22.40	22.23	23.5	1
10	16QAM	1	0	22.67	22.53	22.86		
10	16QAM	1	49	22.62	22.34	22.85		
10	16QAM	1	49	22.59	22.75	22.71	22.5	2
10	16QAM	25	0	21.34	21.43	21.36		
10	16QAM	25	12	21.42	21.45	21.39		
10	16QAM	25	25	21.43	21.40	21.27	21.5	3
10	16QAM	50	0	21.26	21.34	21.25		
10	64QAM	1	0	21.56	21.66	21.62		
10	64QAM	1	25	21.75	21.62	21.58	22.5	2
10	64QAM	1	49	21.62	21.49	21.45		
10	64QAM	25	0	20.45	20.38	20.41		
10	64QAM	25	12	20.47	20.66	20.37	21.5	3
10	64QAM	25	25	20.50	20.52	20.37		
10	64QAM	50	0	20.48	20.43	20.34		
Channel Frequency (MHz)								
5	QPSK	1	0	23.08	23.20	23.17	24.5	0
5	QPSK	1	12	23.54	23.51	23.26		
5	QPSK	1	24	23.15	23.18	23.09		
5	QPSK	12	0	22.28	22.35	22.45	23.5	1
5	QPSK	12	7	22.25	22.49	22.48		
5	QPSK	12	13	22.43	22.42	22.38		
5	QPSK	25	0	22.48	22.37	22.35	23.5	1
5	16QAM	1	0	22.74	22.51	22.83		
5	16QAM	1	12	22.72	22.88	22.76		
5	16QAM	1	24	22.53	22.70	22.77	22.5	2
5	16QAM	12	0	21.45	21.42	21.28		
5	16QAM	12	7	21.51	21.84	21.37		
5	16QAM	12	13	21.45	21.35	21.25	21.5	3
5	16QAM	25	0	21.28	21.37	21.26		
5	64QAM	1	0	21.63	21.51	21.55		
5	64QAM	1	12	21.78	21.85	21.47	22.5	2
5	64QAM	1	24	21.44	21.48	21.59		
5	64QAM	12	0	20.36	20.37	20.37		
5	64QAM	12	7	20.54	20.58	20.40	21.5	3
5	64QAM	12	13	20.44	20.47	20.35		
5	64QAM	25	0	20.37	20.37	20.39		
Channel Frequency (MHz)								
3	QPSK	1	0	23.05	23.24	23.22	24.5	0
3	QPSK	1	8	23.45	23.63	23.28		
3	QPSK	1	14	23.13	23.05	23.15		
3	QPSK	8	0	22.41	22.23	22.36	23.5	1
3	QPSK	8	4	22.58	22.55	22.56		
3	QPSK	8	7	22.46	22.46	22.38		
3	QPSK	15	0	22.50	22.40	22.22	23.5	1
3	16QAM	1	0	22.70	22.62	22.60		
3	16QAM	1	8	22.60	22.90	22.85		
3	16QAM	1	14	22.50	22.72	22.74	22.5	2
3	16QAM	8	0	21.33	21.50	21.31		
3	16QAM	8	4	21.42	21.52	21.46		
3	16QAM	8	7	21.49	21.39	21.32	21.5	3
3	16QAM	15	0	21.35	21.29	21.20		
3	64QAM	1	0	21.65	21.46	21.57		
3	64QAM	1	8	21.86	21.70	21.57	22.5	2
3	64QAM	1	14	21.54	21.39	21.59		
3	64QAM	8	0	20.47	20.35	20.38		
3	64QAM	8	4	20.48	20.63	20.38	21.5	3
3	64QAM	8	7	20.46	20.37	20.34		
3	64QAM	15	0	20.35	20.43	20.25		
Channel Frequency (MHz)								
1.4	QPSK	1	0	23.18	23.27	23.15	24.5	0
1.4	QPSK	1	3	23.52	23.82	23.24		
1.4	QPSK	1	5	23.22	23.25	23.11		
1.4	QPSK	3	0	23.08	23.22	23.16	23.5	1
1.4	QPSK	3	1	23.10	23.27	23.18		
1.4	QPSK	3	3	23.08	23.29	23.13		
1.4	QPSK	6	0	22.53	22.38	22.34	23.5	1
1.4	16QAM	1	0	22.53	22.54	22.41		
1.4	16QAM	1	3	22.42	22.46	22.26		
1.4	16QAM	1	5	22.39	22.49	22.44	23.5	1
1.4	16QAM	3	0	22.53	22.45	22.25		
1.4	16QAM	3	1	22.51	22.43	22.25		
1.4	16QAM	3	3	22.46	22.38	22.28	22.5	2
1.4	16QAM	6	0	21.27	21.41	21.15		
1.4	64QAM	1	0	21.52	21.52	21.50		
1.4	64QAM	1	3	21.65	21.66	21.42	22.5	2
1.4	64QAM	1	5	21.50	21.40	21.49		
1.4	64QAM	3	0	21.44	21.40	21.32		
1.4	64QAM	3	1	21.36	21.42	21.35	21.5	3
1.4	64QAM	3	3	21.35	21.35	21.32		
1.4	64QAM	6	0	20.48	20.37	20.35		

Band 4_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Modulo Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)								
20	QPSK	1	0	23.09	23.10	23.25	24	0
20	QPSK	1	49	23.11	23.11	23.09		
20	QPSK	1	99	22.84	22.81	22.88		
20	QPSK	50	0	22.27	22.20	22.21	23	1
20	QPSK	50	24	22.25	22.25	22.33		
20	QPSK	50	50	22.32	22.39	22.27		
20	QPSK	100	0	22.27	22.20	22.21	23	1
20	16QAM	1	0	22.27	22.24	22.33		
20	16QAM	1	49	22.71	22.58	22.70		
20	16QAM	1	99	22.89	22.41	22.33	22	2
20	16QAM	50	0	21.30	21.26	21.15		
20	16QAM	50	24	21.32	21.52	21.23		
20	16QAM	50	50	21.35	21.29	21.25	21	3
20	16QAM	100	0	21.32	21.34	21.12		
20	64QAM	1	0	21.23	21.55	21.43		
20	64QAM	1	49	21.48	21.52	21.47	22	2
20	64QAM	1	99	21.34	21.19	21.33		
20	64QAM	50	0	20.23	20.36	20.23		
20	64QAM	50	24	20.59	20.36	20.24	21	3
20	64QAM	50	50	20.38	20.42	20.28		
20	64QAM	100	0	20.36	20.35	20.17		
Channel Frequency (MHz)								
15	QPSK	1	0	22.88	23.07	23.1		



Band 5_Ant 13

Channel	Frequency (MHz)	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
10	QPSK 1	23.08	23.19	23.03	24.5	0	
10	QPSK 1	23.22	23.22	23.03			
10	QPSK 1	23.11	23.11	22.99			
10	QPSK 25	22.03	22.13	22.09	23.5	1	
10	QPSK 25	22.24	22.24	22.15			
10	QPSK 25	22.02	22.10	22.03			
10	QPSK 50	22.15	22.20	22.18	23.5	1	
10	16QAM 1	22.55	22.70	22.67			
10	16QAM 1	22.76	22.77	22.75			
10	16QAM 1	22.59	22.73	22.60	22.5	2	
10	16QAM 25	21.05	21.07	20.95			
10	16QAM 25	21.29	21.31	21.31			
10	16QAM 25	20.93	21.04	20.98	22.5	2	
10	16QAM 50	21.07	21.11	21.02			
10	64QAM 1	21.49	21.50	21.39			
10	64QAM 1	21.53	21.54	21.49	21.5	3	
10	64QAM 1	21.40	21.46	21.45			
10	64QAM 25	20.18	20.19	20.16			
10	64QAM 25	20.22	20.27	20.20	21.5	3	
10	64QAM 25	20.04	20.14	20.03			
10	64QAM 50	20.17	20.22	20.16			
Channel Frequency (MHz)					20450	20455	20455
Channel Frequency (MHz)					826.5	836.5	846.5
5	QPSK 1	23.04	23.05	22.90	24.5	0	
5	QPSK 1	23.17	23.08	22.95			
5	QPSK 1	23.02	23.05	22.91			
5	QPSK 12	21.99	22.07	21.98	23.5	1	
5	QPSK 12	22.08	22.23	22.06			
5	QPSK 12	21.92	22.00	22.00			
5	QPSK 25	22.06	22.07	22.05	23.5	1	
5	16QAM 1	22.50	22.56	22.56			
5	16QAM 1	22.74	22.73	22.75			
5	16QAM 1	22.40	22.58	22.48	22.5	2	
5	16QAM 12	20.80	20.99	20.82			
5	16QAM 12	21.29	21.19	21.17			
5	16QAM 12	20.83	20.90	20.91	21.5	3	
5	16QAM 25	20.95	20.96	20.97			
5	64QAM 1	21.47	21.47	21.29			
5	64QAM 1	21.52	21.52	21.46	21.5	3	
5	64QAM 1	21.30	21.38	21.45			
5	64QAM 12	20.09	20.07	20.12			
5	64QAM 12	20.13	20.12	20.11	20415	20420	
5	64QAM 12	19.94	20.03	19.99			
5	64QAM 25	20.08	20.13	20.11			
Channel Frequency (MHz)					20415	20525	20635
Channel Frequency (MHz)					826.5	836.5	847.5
3	QPSK 1	22.93	23.05	22.90	24.5	0	
3	QPSK 1	23.17	23.09	23.06			
3	QPSK 1	23.08	23.11	22.90			
3	QPSK 8	21.93	22.10	21.99	23.5	1	
3	QPSK 8	22.17	22.16	22.14			
3	QPSK 8	21.91	22.09	21.92			
3	QPSK 15	22.08	22.18	22.14	23.5	1	
3	16QAM 1	22.40	22.70	22.63			
3	16QAM 1	22.45	22.70	22.46			
3	16QAM 8	21.00	21.00	20.99	22.5	2	
3	16QAM 8	21.26	21.24	21.21			
3	16QAM 8	20.87	21.01	20.84			
3	16QAM 15	20.84	21.04	20.87	22.5	2	
3	64QAM 1	21.48	21.48	21.30			
3	64QAM 1	21.51	21.50	21.43			
3	64QAM 1	21.32	21.33	21.32	21.5	3	
3	64QAM 8	20.06	20.10	20.04			
3	64QAM 8	20.07	20.15	20.17			
3	64QAM 8	20.04	20.09	19.99	20407	20525	
3	64QAM 15	20.02	20.11	20.02			
Channel Frequency (MHz)							20407
Channel Frequency (MHz)					826.7	836.2	846.3
1.4	QPSK 1	23.03	23.10	23.00	24.5	0	
1.4	QPSK 1	23.20	23.09	23.02			
1.4	QPSK 1	23.05	23.07	22.95			
1.4	QPSK 3	23.02	23.08	22.89	23.5	1	
1.4	QPSK 3	23.03	23.06	22.90			
1.4	QPSK 6	22.04	22.17	22.04			
1.4	16QAM 1	22.43	22.88	22.82	22.5	2	
1.4	16QAM 1	22.67	22.86	22.74			
1.4	16QAM 1	22.57	22.82	22.48			
1.4	16QAM 3	22.46	22.86	22.55	22.5	2	
1.4	16QAM 3	22.43	22.38	22.36			
1.4	16QAM 3	22.52	22.84	22.54			
1.4	16QAM 6	21.07	21.00	20.99	22.5	2	
1.4	64QAM 1	21.47	21.36	21.31			
1.4	64QAM 1	21.47	21.44	21.43			
1.4	64QAM 1	21.31	21.45	21.41	21.5	3	
1.4	64QAM 3	21.07	21.09	20.99			
1.4	64QAM 3	21.07	21.08	21.01			
1.4	64QAM 3	21.05	20.99	21.02	20407	20525	
1.4	64QAM 6	20.15	20.15	20.14			

Band 5_Ant 31

Channel	Frequency (MHz)	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
10	QPSK 1	22.93	22.78	22.92	24	0	
10	QPSK 1	22.97	22.86	22.75			
10	QPSK 25	21.88	21.92	21.8			
10	QPSK 25	22.13	22.13	22.13	23	1	
10	QPSK 25	22	21.84	21.66			
10	QPSK 50	22.01	22.08	21.95			
10	16QAM 1	21.97	22.08	22.13	23	1	
10	16QAM 1	22.1	22.15	22.13			
10	16QAM 1	22.16	22.02	22.23			
10	16QAM 25	21.05	21.04	20.99	22	2	
10	16QAM 25	20.98	21.03	20.98			
10	16QAM 25	20.8	20.8	20.88			
10	16QAM 50	20.98	20.95	20.9	22	2	
10	64QAM 1	20.95	21.27	21.33			
10	64QAM 1	21.41	21.37	21.18			
10	64QAM 1	20.93	20.95	20.94	21	3	
10	64QAM 25	0	19.96	19.94			
10	64QAM 25	12	20.16	20.93			
10	64QAM 25	12	19.98	19.74	20415	20525	
10	64QAM 50	0	19.9	19.8			
Channel Frequency (MHz)							826.5
Channel Frequency (MHz)					826.5	836.5	846.5
5	QPSK 1	22.78	22.71	22.82	24	0	
5	QPSK 1	22.86	22.86	22.81			
5	QPSK 1	22.84	22.80	22.75			
5	QPSK 12	21.81	21.88	21.77	23	1	
5	QPSK 12	21.97	22.03	21.83			
5	QPSK 12	21.93	21.81	21.60			
5	QPSK 25	21.90	21.96	21.82	23	1	
5	16QAM 1	21.83	22.02	22.02			
5	16QAM 1	22.01	22.02	22.10			
5	16QAM 1	22.03	21.98	22.08	22	2	
5	16QAM 12	20.81	20.80	20.74			
5	16QAM 12	20.89	20.89	20.92			
5	16QAM 12	20.80	20.80	20.67	21	3	
5	16QAM 25	20.85	20.76	20.78			
5	64QAM 1	20.95	21.19	21.30			
5	64QAM 1	21.27	21.34	21.07	21	3	
5	64QAM 1	21.03	21.82	20.81			
5	64QAM 12	0	19.82	19.85			
5	64QAM 12	7	19.95	20.04	20415	20525	
5	64QAM 12	13	19.98	19.92			
5	64QAM 25	0	19.81	19.88			
Channel Frequency (MHz)					20415	20525	20635
Channel Frequency (MHz)					826.5	836.5	847.5
3	QPSK 1	22.85	22.73	22.85	24	0	
3	QPSK 1	22.90	22.97	22.89			
3	QPSK 1	22.88	22.78	22.92			
3	QPSK 8	21.80	21.80	21.67	23	1	
3	QPSK 8	21.99	22.10	21.79			
3	QPSK 8	21.91	21.83	21.65			
3	QPSK 15	21.86	22.04	21.80	23	1	
3	16QAM 1	21.84	22.05	22.04			
3	16QAM 1	22.08	22.15	22.08			
3	16QAM 1	22.15	21.98	22.15	22	2	
3	16QAM 8	21.04	20.99	20.74			
3	16QAM 8	20.99	20.74	20.59			
3	16QAM 15	20.88	20.86	20.68	22	2	
3	64QAM 1	20.95	21.23	21.29			
3	64QAM 1	21.41	21.33	21.04			
3	64QAM 1	20.91	20.93	20.69	21	3	
3	64QAM 8	0	19.89	19.86			
3	64QAM 8	4	20.01	20.08			
3	64QAM 8	7	19.90	19.73	20407	20525	
3	64QAM 15	0	19.89	19.80			
Channel Frequency (MHz)							20407
Channel Frequency (MHz)					826.7	836.2	846.3
1.4	QPSK 1	22.92	22.83	22.85	24	0	
1.4	QPSK 1	22.93	23.05	22.84			
1.4	QPSK 1	22.97	22.74	22.85			
1.4	QPSK 3	22.85	22.75	22.75	23	1	
1.4	QPSK 3	22.95	22.82	22.72			
1.4	QPSK 3	22.82	22.84	22.73			
1.4	QPSK 6	21.89	21.84	21.90	23	1	
1.4	16QAM 1	21.93	21.99	22.11			
1.4	16QAM 1	21.95	22.05	22.04			
1.4	16QAM 1	21.90	22.08	21.88	22	2	
1.4	16QAM 3	21.88	22.07	21.81			
1.4	16QAM 3	21.84	21.84	21.85			
1.4	16QAM 3	21.88	22.08	21.85	22	2	
1.4	16QAM 6	20.83	20.86	20.74			
1.4	64QAM 1	20.91	21.13	21.23			
1.4	64QAM 1	21.03	21.02	20.75	22	2	
1.4	64QAM 1	21.00	21.04	20.82			
1.4	64QAM 3	20.98	20.90	20.79			
1.4	64QAM 3	20.91	20.92	20.88	21	3	
1.4	64QAM 3	3	21.05	20.97			
1.4	64QAM 6	13	19.98	19.95			



Band 7_Ant 13

Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel 20950						
20	QPSK	1	0	23.17	23.17	22.96
20	QPSK	1	49	23.24	23.25	23.19
20	QPSK	50	0	22.33	22.37	22.17
20	QPSK	50	24	22.50	22.50	22.35
20	QPSK	50	50	22.41	22.33	22.25
20	QPSK	100	0	22.35	22.37	22.23
20	16QAM	1	0	22.65	22.40	22.34
20	16QAM	1	49	22.43	22.54	22.56
20	16QAM	1	99	22.27	22.09	22.24
20	16QAM	50	0	21.36	21.38	21.12
20	16QAM	50	24	21.52	21.40	21.31
20	16QAM	50	50	21.36	21.20	21.33
20	16QAM	100	0	21.35	21.27	21.26
20	64QAM	1	0	21.58	21.23	21.34
20	64QAM	1	49	21.37	21.50	21.36
20	64QAM	1	99	21.60	21.50	21.48
20	64QAM	50	0	20.39	20.36	20.21
20	64QAM	50	24	20.55	20.37	20.41
20	64QAM	50	50	20.45	20.25	20.40
20	64QAM	100	0	20.42	20.40	20.29
Channel 20955						
15	QPSK	1	0	23.14	23.16	22.83
15	QPSK	1	37	23.26	23.27	23.32
15	QPSK	1	74	23.13	23.24	23.05
15	QPSK	36	0	22.23	22.25	22.08
15	QPSK	36	20	22.38	22.39	22.33
15	QPSK	36	39	22.38	22.20	22.20
15	QPSK	75	0	22.30	22.36	22.14
15	16QAM	1	0	22.62	22.37	22.19
15	16QAM	1	37	22.42	22.51	22.42
15	16QAM	1	74	22.19	21.99	22.21
15	16QAM	36	0	21.22	21.26	20.99
15	16QAM	36	20	21.46	21.27	21.17
15	16QAM	36	39	21.24	21.08	21.27
15	16QAM	75	0	21.22	21.18	21.17
15	64QAM	1	0	21.55	21.23	21.25
15	64QAM	1	37	21.27	21.38	21.32
15	64QAM	1	74	21.49	21.50	21.42
15	64QAM	36	0	20.39	20.30	20.21
15	64QAM	36	20	20.52	20.27	20.26
15	64QAM	36	39	20.41	20.24	20.30
15	64QAM	75	0	20.30	20.27	20.20
Channel 20960						
10	QPSK	1	0	23.11	23.11	22.90
10	QPSK	1	25	23.30	23.39	23.33
10	QPSK	1	49	23.23	23.14	23.04
10	QPSK	25	0	22.27	22.30	22.09
10	QPSK	25	12	22.33	22.40	22.20
10	QPSK	25	25	22.31	22.18	22.22
10	QPSK	50	0	22.32	22.35	22.22
10	16QAM	1	0	22.58	22.31	22.31
10	16QAM	1	25	22.43	22.41	22.48
10	16QAM	1	49	22.12	21.95	22.18
10	16QAM	25	0	21.27	21.34	20.97
10	16QAM	25	12	21.41	21.40	21.31
10	16QAM	25	25	21.28	21.13	21.26
10	16QAM	50	0	21.33	21.15	21.11
10	64QAM	1	0	21.55	21.08	21.22
10	64QAM	1	25	21.35	21.50	21.33
10	64QAM	1	49	21.54	21.45	21.37
10	64QAM	25	0	20.24	20.23	20.21
10	64QAM	25	12	20.53	20.35	20.38
10	64QAM	25	25	20.40	20.23	20.27
10	64QAM	50	0	20.37	20.32	20.26
Channel 20975						
5	QPSK	1	0	23.14	23.16	22.83
5	QPSK	1	12	23.28	23.30	23.33
5	QPSK	1	24	23.12	23.23	23.06
5	QPSK	12	0	22.32	22.28	22.05
5	QPSK	12	7	22.39	22.48	22.34
5	QPSK	12	13	22.32	22.28	22.10
5	QPSK	25	0	22.23	22.26	22.22
5	16QAM	1	0	22.50	22.27	22.28
5	16QAM	1	12	22.29	22.41	22.50
5	16QAM	1	24	22.20	22.00	22.11
5	16QAM	12	0	21.28	21.35	20.99
5	16QAM	12	7	21.40	21.28	21.21
5	16QAM	12	13	21.30	21.13	21.25
5	16QAM	25	0	21.30	21.27	21.13
5	64QAM	1	0	21.43	21.12	21.26
5	64QAM	1	12	21.37	21.44	21.34
5	64QAM	1	24	21.47	21.36	21.35
5	64QAM	12	0	20.30	20.31	20.08
5	64QAM	12	7	20.44	20.33	20.34
5	64QAM	12	13	20.38	20.19	20.40
5	64QAM	25	0	20.28	20.27	20.27

Band 7_Ant 31

Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel 20950						
20	QPSK	1	0	23.10	23.07	23.02
20	QPSK	1	49	23.11	23.15	23.11
20	QPSK	1	99	23.11	23.11	23.07
20	QPSK	50	0	21.92	22.05	21.88
20	QPSK	50	24	22.05	22.11	22.01
20	QPSK	50	50	22.03	22.05	22.00
20	QPSK	100	0	22.02	22.09	22.08
20	16QAM	1	0	22.15	22.46	22.46
20	16QAM	1	49	22.39	22.47	22.27
20	16QAM	1	99	22.22	22.34	22.16
20	16QAM	50	0	21.20	21.38	21.17
20	16QAM	50	24	21.35	21.48	21.35
20	16QAM	50	50	21.32	21.39	21.11
20	16QAM	100	0	21.18	21.41	21.19
20	64QAM	1	0	21.46	21.27	21.27
20	64QAM	1	49	21.13	21.39	21.11
20	64QAM	1	99	21.50	21.37	21.27
20	64QAM	50	0	20.28	20.30	20.18
20	64QAM	50	24	20.31	20.40	20.25
20	64QAM	50	50	20.35	20.36	20.15
20	64QAM	100	0	20.28	20.43	20.13
Channel 20955						
15	QPSK	1	0	23.08	23.02	22.90
15	QPSK	1	37	23.09	23.09	23.08
15	QPSK	1	74	22.99	23.08	23.01
15	QPSK	36	0	21.87	21.99	21.83
15	QPSK	36	20	21.95	21.90	21.96
15	QPSK	36	39	21.91	21.97	21.88
15	QPSK	75	0	21.90	22.07	21.89
15	16QAM	1	0	22.07	22.40	22.47
15	16QAM	1	37	22.39	22.40	22.15
15	16QAM	1	74	22.11	22.32	22.11
15	16QAM	36	0	21.08	21.28	21.15
15	16QAM	36	20	21.45	21.28	21.28
15	16QAM	36	39	21.30	21.31	21.04
15	16QAM	75	0	21.28	21.30	21.07
15	64QAM	1	0	21.41	21.25	21.24
15	64QAM	1	37	21.02	21.29	21.04
15	64QAM	1	74	21.47	21.54	21.21
15	64QAM	36	0	20.22	20.25	20.11
15	64QAM	36	20	20.21	20.31	20.18
15	64QAM	36	39	20.24	20.04	20.14
15	64QAM	75	0	20.22	20.31	20.29
Channel 20960						
10	QPSK	1	0	23.00	22.99	22.91
10	QPSK	1	25	23.05	23.05	23.04
10	QPSK	1	49	23.00	23.00	22.99
10	QPSK	25	0	21.86	21.97	21.82
10	QPSK	25	12	21.94	22.09	21.94
10	QPSK	25	25	21.91	21.83	21.82
10	QPSK	50	0	21.82	22.03	22.03
10	16QAM	1	0	22.05	22.36	22.41
10	16QAM	1	25	22.31	22.38	22.15
10	16QAM	1	49	22.19	22.23	22.09
10	16QAM	25	0	21.18	21.32	21.07
10	16QAM	25	12	21.29	21.45	21.28
10	16QAM	25	25	21.26	21.34	21.09
10	16QAM	50	0	21.16	21.37	20.99
10	64QAM	1	0	21.44	21.17	21.22
10	64QAM	1	25	21.10	21.32	21.05
10	64QAM	1	49	21.41	21.28	21.23
10	64QAM	25	0	20.14	20.20	20.15
10	64QAM	25	12	20.28	20.33	20.19
10	64QAM	25	25	20.25	20.29	20.07
10	64QAM	50	0	20.26	20.38	20.04
Channel 20975						
5	QPSK	1	0	23.02	22.98	22.92
5	QPSK	1	12	23.06	23.13	23.07
5	QPSK	1	24	23.07	23.08	23.03
5	QPSK	12	0	21.81	21.94	21.82
5	QPSK	12	7	22.02	22.03	21.99
5	QPSK	12	13	21.91	21.97	21.94
5	QPSK	25	0	21.84	21.97	22.02
5	16QAM	1	0	22.12	22.44	22.38
5	16QAM	1	12	22.07	22.41	22.21
5	16QAM	1	24	22.17	22.25	22.04
5	16QAM	12	0	21.13	21.26	21.09
5	16QAM	12	7	21.25	21.44	21.31
5	16QAM	12	13	21.20	21.28	21.00
5	16QAM	25	0	21.11	21.32	21.04
5	64QAM	1	0	21.38	21.24	21.23
5	64QAM	1	12	21.11	21.34	20.99
5	64QAM	1	24	21.44		



Band 12_Ant 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 Frequency (MHz)								
10	QPSK	1	0	22.80	22.72	22.84	24	0
10	QPSK	1	25	22.80	22.72	22.84		
10	QPSK	1	49	22.83	22.85	22.89	23	1
10	QPSK	25	0	21.86	21.83	21.80		
10	QPSK	25	15	21.86	21.83	21.80	23	1
10	QPSK	25	25	21.80	21.87	21.83		
10	QPSK	50	0	21.79	21.89	21.95	23	1
10	16QAM	1	0	21.74	22.07	22.08		
10	16QAM	1	25	22.11	22.11	22.57	23	1
10	16QAM	1	49	22.52	22.53	22.12		
10	16QAM	25	0	20.72	20.99	20.84	22	2
10	16QAM	25	12	21.00	20.92	20.94		
10	16QAM	25	25	20.86	20.92	20.79	22	2
10	16QAM	50	0	20.84	20.89	20.90		
10	64QAM	1	0	20.86	21.22	21.22	22	2
10	64QAM	1	25	21.37	21.40	21.35		
10	64QAM	1	49	21.33	21.14	20.95	21	3
10	64QAM	25	0	19.82	19.93	19.86		
10	64QAM	25	12	20.10	20.04	19.99	21	3
10	64QAM	25	25	19.89	19.84	19.94		
10	64QAM	50	0	19.95	19.84	20.00	21	3
Channel Frequency (MHz)								
23055								
5	QPSK	1	0	22.73	22.84	22.76	24	0
5	QPSK	1	12	22.80	22.86	22.87		
5	QPSK	1	24	22.89	22.71	22.87	23	1
5	QPSK	12	0	21.54	21.74	21.65		
5	QPSK	12	7	21.86	21.74	21.86	23	1
5	QPSK	12	13	21.69	21.84	21.73		
5	QPSK	25	0	21.71	21.98	21.85	23	1
5	16QAM	1	0	21.72	22.32	21.99		
5	16QAM	1	12	21.97	22.05	22.45	22	2
5	16QAM	1	24	22.41	22.41	22.97		
5	16QAM	12	0	20.66	20.93	20.71	22	2
5	16QAM	12	7	20.91	20.92	20.79		
5	16QAM	12	13	20.90	20.92	20.86	22	2
5	16QAM	25	0	20.81	20.78	20.83		
5	64QAM	1	0	20.84	21.10	21.12	22	2
5	64QAM	1	12	21.28	21.27	21.33		
5	64QAM	1	24	21.31	21.09	20.95	21	3
5	64QAM	12	0	19.82	19.80	19.84		
5	64QAM	12	7	19.97	19.96	19.88	21	3
5	64QAM	12	13	19.87	19.89	19.80		
5	64QAM	25	0	19.83	19.89	19.85	21	3
Channel Frequency (MHz)								
23055								
3	QPSK	1	0	22.77	22.82	22.76	24	0
3	QPSK	1	8	22.91	22.98	22.78		
3	QPSK	1	14	22.78	22.75	22.90	23	1
3	QPSK	8	0	21.83	21.80	21.74		
3	QPSK	8	4	21.85	21.75	21.75	23	1
3	QPSK	8	7	21.67	21.82	21.74		
3	QPSK	15	0	21.78	21.85	21.90	23	1
3	16QAM	1	0	21.70	22.28	22.04		
3	16QAM	1	8	21.96	22.05	22.54	22	2
3	16QAM	1	14	22.46	22.38	22.08		
3	16QAM	8	0	20.97	20.90	20.72	22	2
3	16QAM	8	4	20.87	20.81	20.90		
3	16QAM	8	7	20.94	20.88	20.79	22	2
3	16QAM	15	0	20.82	20.82	20.90		
3	64QAM	1	0	20.80	21.16	21.13	22	2
3	64QAM	1	8	21.37	21.30	21.23		
3	64QAM	1	14	21.33	21.02	20.84	21	3
3	64QAM	8	0	19.87	19.85	19.83		
3	64QAM	8	4	20.04	19.84	19.85	21	3
3	64QAM	8	7	19.86	19.89	19.84		
3	64QAM	15	0	19.86	19.93	19.90	21	3
Channel Frequency (MHz)								
23017								
1.4	QPSK	1	0	22.70	22.74	22.61	24	0
1.4	QPSK	1	3	22.80	22.81	22.85		
1.4	QPSK	1	5	22.80	22.85	22.72	23	1
1.4	QPSK	3	0	22.79	22.82	22.71		
1.4	QPSK	3	1	22.69	22.83	22.74	23	1
1.4	QPSK	3	3	22.81	22.82	22.70		
1.4	QPSK	6	0	21.82	21.87	21.88	22	2
1.4	16QAM	1	0	22.27	21.89	21.92		
1.4	16QAM	1	3	22.19	22.18	21.95	22	2
1.4	16QAM	1	5	21.94	21.97	21.87		
1.4	16QAM	3	0	21.70	21.77	21.78	22	2
1.4	16QAM	3	1	21.83	21.93	21.91		
1.4	16QAM	3	3	21.84	21.73	21.92	22	2
1.4	64QAM	1	0	21.07	21.05	20.99		
1.4	64QAM	1	0	21.25	21.03	20.85	22	2
1.4	64QAM	1	3	21.24	20.89	20.84		
1.4	64QAM	1	5	20.90	21.05	21.19	22	2
1.4	64QAM	3	0	20.85	21.23	21.24		
1.4	64QAM	3	1	21.10	20.76	21.13	21	3
1.4	64QAM	3	3	21.07	21.12	20.99		
1.4	64QAM	6	0	19.85	19.85	19.94	21	3
Channel Frequency (MHz)								
23017								

Band 12_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)								
10	QPSK	1	0	22.71	22.61	22.85	24	0
10	QPSK	1	25	22.82	22.82	22.82		
10	QPSK	1	49	22.83	22.82	22.82	23	1
10	QPSK	25	0	21.53	21.65	21.64		
10	QPSK	25	12	21.74	21.83	21.76	23	1
10	QPSK	25	25	21.68	21.68	21.66		
10	QPSK	50	0	21.88	21.75	21.73	23	1
10	16QAM	1	0	22.08	22.17	22.04		
10	16QAM	1	25	22.34	22.42	22.01	22	2
10	16QAM	1	49	22.04	22.29	22.07		
10	16QAM	25	0	20.70	20.86	20.82	22	2
10	16QAM	25	12	20.88	20.85	20.79		
10	16QAM	25	25	20.84	20.84	20.77	22	2
10	16QAM	50	0	20.71	20.83	20.78		
10	64QAM	1	0	20.92	21.00	21.09	22	2
10	64QAM	1	25	21.05	20.91	20.91		
10	64QAM	1	49	20.92	20.84	20.85	21	3
10	64QAM	25	0	19.68	19.79	19.75		
10	64QAM	25	12	19.87	19.89	19.91	21	3
10	64QAM	25	25	19.88	19.90	19.93		
10	64QAM	50	0	19.74	19.80	19.86	21	3
Channel Frequency (MHz)								
23055								
5	QPSK	1	0	22.57	22.80	22.56	24	0
5	QPSK	1	12	22.76	22.83	22.83		
5	QPSK	1	24	22.73	22.81	22.71	23	1
5	QPSK	12	0	21.42	21.84	21.84		
5	QPSK	12	7	21.60	21.69	21.76	23	1
5	QPSK	12	13	21.71	21.63	21.61		
5	QPSK	25	0	21.53	21.72	21.71	23	1
5	16QAM	1	0	21.48	22.05	22.00		
5	16QAM	1	12	22.24	22.21	21.95	22	2
5	16QAM	1	24	21.95	22.23	22.05		
5	16QAM	12	0	20.58	20.61	20.68	22	2
5	16QAM	12	7	20.78	20.73	20.74		
5	16QAM	12	13	20.75	20.76	20.72	22	2
5	16QAM	25	0	20.67	20.77	20.83		
5	64QAM	1	0	20.81	20.90	21.02	22	2
5	64QAM	1	12	20.82	20.84	20.77		
5	64QAM	1	24	20.73	20.79	20.76	21	3
5	64QAM	12	0	19.55	19.70	19.70		
5	64QAM	12	7	19.77	19.81	19.78	21	3
5	64QAM	12	13	19.79	19.80	19.80		
5	64QAM	25	0	19.74	19.71	19.73	21	3
Channel Frequency (MHz)								
23055								
3	QPSK	1	0	22.89	22.92	22.82	24	0
3	QPSK	1	8	22.85	22.87	22.85		
3	QPSK	1	14	22.81	22.78	22.77	23	1
3	QPSK	8	0	21.41	21.83	21.58		
3	QPSK	8	4	21.88	21.72	21.88	23	1
3	QPSK	8	7	21.61	21.86	21.61		
3	QPSK	15	0	21.84	21.68	21.62	23	1
3	16QAM	1	0	22.01	22.11	21.96		
3	16QAM	1	8	22.19	22.31	21.98	22	2
3	16QAM	1	14	21.89	22.23	21.98		
3	16QAM	8	0	20.95	20.84	20.82	22	2
3	16QAM	8	4	20.74	20.84	20.69		
3	16QAM	8	7	20.83	20.71	20.65	22	2
3	16QAM	15	0	20.69	20.83	20.64		
3	64QAM	1	0	20.82	20.95			



Band 13_Ant 13

Band 13_Ant 13	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)								
762								
10	QPSK	1	0	23.01			24	0
10	QPSK	1	49	22.98				
10	QPSK	25	0	21.80			23	1
10	QPSK	25	12	21.83				
10	QPSK	25	25	21.89			23	1
10	QPSK	50	0	21.90				
10	16QAM	1	0	22.25			23	1
10	16QAM	1	25	22.37				
10	16QAM	1	49	22.43			22	2
10	16QAM	25	0	20.99				
10	16QAM	25	12	21.15			22	2
10	16QAM	25	25	20.96				
10	16QAM	50	0	20.95			22	2
10	64QAM	1	0	21.15				
10	64QAM	1	25	21.08			21	3
10	64QAM	1	49	21.32				
10	64QAM	25	0	19.90			21	3
10	64QAM	25	25	19.94				
10	64QAM	50	0	19.85				
Channel Frequency (MHz)								
2324								
5	QPSK	1	0	22.99	22.95	22.96	24	0
5	QPSK	1	12	22.88	22.92	22.93		
5	QPSK	1	24	22.97	22.83	22.96	23	1
5	QPSK	12	0	21.79	21.72	21.76		
5	QPSK	12	7	21.88	21.97	21.90	23	1
5	QPSK	12	13	21.84	21.76	21.80		
5	QPSK	25	0	21.88	21.77	21.84	23	1
5	16QAM	1	0	22.21	22.23	22.12		
5	16QAM	1	12	22.37	22.29	22.27	22	2
5	16QAM	1	24	22.32	22.28	22.37		
5	16QAM	12	0	20.72	20.84	20.73	22	2
5	16QAM	12	7	21.01	21.11	21.10		
5	16QAM	12	13	20.88	20.83	20.88	22	2
5	16QAM	25	0	20.89	20.98	20.85		
5	64QAM	1	0	21.00	21.10	21.07	21	3
5	64QAM	1	12	21.06	21.04	21.06		
5	64QAM	1	24	21.22	21.18	21.24	21	3
5	64QAM	12	0	19.90	19.82	19.89		
5	64QAM	12	7	20.02	19.97	20.02	21	3
5	64QAM	12	13	19.81	19.85	19.94		
5	64QAM	25	0	19.80	19.80	19.75		

Band 13_Ant 31

Band 13_Ant 31	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)								
762								
10	QPSK	1	0	22.83			24	0
10	QPSK	1	49	22.85				
10	QPSK	25	0	21.67			23	1
10	QPSK	25	12	21.67				
10	QPSK	25	25	21.74			23	1
10	QPSK	50	0	21.78				
10	16QAM	1	0	21.98			23	1
10	16QAM	1	25	22.01				
10	16QAM	1	49	21.95			22	2
10	16QAM	25	0	20.75				
10	16QAM	25	12	20.79			22	2
10	16QAM	25	25	20.68				
10	16QAM	50	0	20.78			22	2
10	64QAM	1	0	21.06				
10	64QAM	1	25	21.16			21	3
10	64QAM	1	49	21.34				
10	64QAM	25	0	19.85			21	3
10	64QAM	25	25	19.73				
10	64QAM	50	0	19.76				
Channel Frequency (MHz)								
2324								
5	QPSK	1	0	22.82	22.73	22.83	24	0
5	QPSK	1	12	22.81	22.86	22.74		
5	QPSK	1	24	22.72	22.80	22.79	23	1
5	QPSK	12	0	21.53	21.81	21.60		
5	QPSK	12	7	21.85	21.87	21.85	23	1
5	QPSK	12	13	21.85	21.73	21.87		
5	QPSK	25	0	21.75	21.85	21.82	23	1
5	16QAM	1	0	21.93	21.95	21.99		
5	16QAM	1	12	21.94	21.87	21.91	22	2
5	16QAM	1	24	21.91	21.89	21.89		
5	16QAM	12	0	20.70	20.68	20.60	22	2
5	16QAM	12	7	20.84	20.56	20.76		
5	16QAM	12	13	20.57	20.67	20.58	22	2
5	16QAM	25	0	20.77	20.75	20.76		
5	64QAM	1	0	21.04	21.02	21.05	21	3
5	64QAM	1	12	21.18	21.06	21.18		
5	64QAM	1	24	20.85	20.91	20.82	21	3
5	64QAM	12	0	19.70	19.71	19.79		
5	64QAM	12	7	19.85	19.74	19.78	21	3
5	64QAM	12	13	19.72	19.69	19.64		
5	64QAM	25	0	19.67	19.68	19.75		



Band 17_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Channel			Tune-up limit (dBm)	MPR (dB)
				Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.		
Channel								
Frequency (MHz)								
				709	710	711		
10	QPSK	1	0	22.73	22.85	22.86	24	0
10	QPSK	1	25	22.81	22.95	22.94		
10	QPSK	1	49	22.86	22.86	22.93		
10	QPSK	25	0	21.80	21.77	21.72	23	1
10	QPSK	25	12	21.83	21.93	21.92		
10	QPSK	25	25	21.81	21.84	21.75		
10	QPSK	50	0	21.81	21.83	21.78	23	1
10	16QAM	1	0	22.08	22.04	22.95		
10	16QAM	1	25	22.49	22.05	22.05		
10	16QAM	1	49	22.35	22.05	22.23	22	2
10	16QAM	25	0	20.86	20.82	20.77		
10	16QAM	25	12	20.88	20.94	20.87		
10	16QAM	25	25	21.00	20.84	20.84	22	2
10	16QAM	50	0	20.81	20.83	20.83		
10	64QAM	1	0	21.19	21.18	21.14		
10	64QAM	1	25	21.39	21.27	21.21	22	2
10	64QAM	1	49	21.12	21.15	21.93		
10	64QAM	25	0	19.94	19.88	19.89		
10	64QAM	25	12	20.00	19.92	19.89	21	3
10	64QAM	25	25	19.85	19.88	19.78		
10	64QAM	50	0	19.86	19.88	19.83		
Channel								
Frequency (MHz)								
				2370	2370	2370		
5	QPSK	1	0	22.58	22.72	22.86	24	0
5	QPSK	1	12	22.87	22.86	22.86		
5	QPSK	1	24	22.74	22.78	22.85		
5	QPSK	12	0	21.74	21.7	21.67	23	1
5	QPSK	12	7	21.75	21.78	21.5		
5	QPSK	12	13	21.69	21.81	21.73		
5	QPSK	25	0	21.78	21.82	21.85	23	1
5	16QAM	1	0	22.04	22.01	22.29		
5	16QAM	1	12	22.48	22.05	22.1		
5	16QAM	1	24	22.22	22.03	22.14	22	2
5	16QAM	12	0	20.79	20.68	20.74		
5	16QAM	12	7	20.79	20.93	20.73		
5	16QAM	12	13	20.91	20.72	20.82	22	2
5	16QAM	25	0	20.78	20.68	20.63		
5	64QAM	1	0	21.11	21.09	21.09		
5	64QAM	1	12	21.32	21.19	21.07	22	2
5	64QAM	1	24	21.08	21.12	21.06		
5	64QAM	12	0	19.87	19.73	19.76		
5	64QAM	12	7	19.98	19.85	19.84	21	3
5	64QAM	12	13	19.9	19.77	19.71		
5	64QAM	25	0	19.71	19.75	19.79		

Band 17_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Channel			Tune-up limit (dBm)	MPR (dB)
				Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.		
Channel								
Frequency (MHz)								
				709	710	711		
10	QPSK	1	0	22.89	22.72	22.82	24	0
10	QPSK	1	25	22.81	22.85	22.95		
10	QPSK	1	49	22.72	22.70	22.75		
10	QPSK	25	0	21.84	21.73	21.59	23	1
10	QPSK	25	12	21.78	21.78	21.77		
10	QPSK	25	25	21.89	21.74	21.64		
10	QPSK	50	0	21.70	21.72	21.66	23	1
10	16QAM	1	0	21.80	22.07	22.15		
10	16QAM	1	25	21.76	22.04	21.89		
10	16QAM	1	49	22.10	22.09	21.91	22	2
10	16QAM	25	0	20.78	20.73	20.73		
10	16QAM	25	12	20.79	20.79	20.76		
10	16QAM	25	25	20.79	20.72	20.71	22	2
10	16QAM	50	0	20.81	20.79	20.71		
10	64QAM	1	0	20.92	20.73	21.10		
10	64QAM	1	25	20.91	21.18	20.96	22	2
10	64QAM	1	49	20.79	20.93	21.08		
10	64QAM	25	0	19.76	19.80	19.78		
10	64QAM	25	12	19.86	19.80	19.89	21	3
10	64QAM	25	25	19.87	19.83	19.87		
10	64QAM	50	0	19.89	19.79	19.89		
Channel								
Frequency (MHz)								
				2370	2370	2370		
5	QPSK	1	0	22.84	22.82	22.80	24	0
5	QPSK	1	12	22.71	22.80	22.79		
5	QPSK	1	24	22.57	22.81	22.68		
5	QPSK	12	0	21.80	21.71	21.45	23	1
5	QPSK	12	7	21.59	21.72	21.54		
5	QPSK	12	13	21.82	21.69	21.82		
5	QPSK	25	0	21.88	21.89	21.83	23	1
5	16QAM	1	0	21.89	22.03	22.13		
5	16QAM	1	12	21.84	21.94	21.81		
5	16QAM	1	24	22.03	22.07	21.88	22	2
5	16QAM	12	0	20.66	20.70	20.68		
5	16QAM	12	7	20.75	20.74	20.72		
5	16QAM	12	13	20.65	20.69	20.68	22	2
5	16QAM	25	0	20.73	20.77	20.65		
5	64QAM	1	0	20.80	20.81	21.09		
5	64QAM	1	12	20.84	21.08	20.92	22	2
5	64QAM	1	24	20.84	20.81	21.05		
5	64QAM	12	0	19.72	19.76	19.65		
5	64QAM	12	7	19.93	19.76	19.78	21	3
5	64QAM	12	13	19.73	19.65	19.60		
5	64QAM	25	0	19.79	19.68	19.61		



Band 18_Ant 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 Frequency (MHz)									
15	QPSK	1	0	22.97	23.20	23.50	24.5	0	
15	QPSK	1	37	23.00	23.12	23.31			
15	QPSK	36	0	22.25	22.25	22.25			
15	QPSK	36	39	22.25	22.25	22.25	23.5	1	
15	QPSK	75	0	22.25	22.25	22.25			
15	16QAM	1	0	22.24	22.51	22.53			
15	16QAM	1	37	22.51	22.53	21.17	23.5	1	
15	16QAM	1	74	22.53	21.17	21.27			
15	16QAM	36	0	21.17	21.16	21.23			
15	16QAM	36	20	21.27	21.16	21.17	22.5	2	
15	16QAM	36	39	21.16	21.01	20.24			
15	16QAM	75	0	21.23	21.17	21.38			
15	64QAM	1	0	21.17	21.01	20.24	22.5	2	
15	64QAM	1	37	21.38	21.01	20.24			
15	64QAM	1	74	21.01	20.18	20.25			
15	64QAM	36	0	20.24	20.18	20.25	21.5	3	
15	64QAM	36	20	20.18	20.16	20.16			
15	64QAM	36	39	20.25	20.16	20.16			
15	64QAM	75	0	20.16	20.16	20.16			
Channel Frequency (MHz)									
10	QPSK	1	0	22.92	22.91	22.86	24.5	0	
10	QPSK	1	25	23.17	23.09	23.16			
10	QPSK	1	49	22.93	22.89	22.87			
10	QPSK	25	0	22.00	22.05	22.00	23.5	1	
10	QPSK	25	12	22.17	22.13	22.25			
10	QPSK	25	25	22.25	22.14	22.14			
10	QPSK	50	0	22.23	22.20	22.21	23.5	1	
10	16QAM	1	0	22.09	22.13	22.23			
10	16QAM	1	25	22.42	22.47	22.40			
10	16QAM	1	49	22.49	22.53	22.44	22.5	2	
10	16QAM	25	0	21.05	21.02	21.13			
10	16QAM	25	12	21.13	21.22	21.15			
10	16QAM	25	25	21.13	21.07	21.16	22.5	2	
10	16QAM	50	0	21.18	21.19	21.16			
10	64QAM	1	0	21.02	21.11	21.08			
10	64QAM	1	25	21.34	21.29	21.36	22.5	2	
10	64QAM	1	49	20.83	20.89	20.88			
10	64QAM	25	0	20.24	20.21	20.23			
10	64QAM	25	12	20.10	20.09	20.18	21.5	3	
10	64QAM	25	25	20.23	20.17	20.14			
10	64QAM	50	0	20.08	20.09	20.08			
Channel Frequency (MHz)									
5	QPSK	1	0	22.93	22.91	22.96	24.5	0	
5	QPSK	1	12	23.16	23.17	23.13			
5	QPSK	1	24	22.99	22.87	22.97			
5	QPSK	12	0	22.01	22.01	22.06	23.5	1	
5	QPSK	12	7	22.19	22.27	22.28			
5	QPSK	12	13	22.22	22.14	22.18			
5	QPSK	25	0	22.12	22.16	22.22	23.5	1	
5	16QAM	1	0	22.17	22.09	22.23			
5	16QAM	1	12	22.39	22.42	22.37			
5	16QAM	1	24	22.50	22.52	22.53	23.5	1	
5	16QAM	12	0	21.02	21.03	21.09			
5	16QAM	12	7	21.20	21.22	21.21			
5	16QAM	12	13	21.16	21.10	21.08	22.5	2	
5	16QAM	25	0	21.29	21.17	21.18			
5	64QAM	1	0	21.07	21.17	21.02			
5	64QAM	1	12	21.32	21.23	21.37	22.5	2	
5	64QAM	1	24	20.85	21.00	20.90			
5	64QAM	12	0	20.21	20.10	20.22			
5	64QAM	12	7	20.07	20.10	20.11	21.5	3	
5	64QAM	12	13	20.20	20.10	20.12			
5	64QAM	25	0	20.05	20.09	20.12			

Band 18_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
15	QPSK	1	0	22.76	22.76	22.76	24	0	
15	QPSK	1	37	22.53	22.53	22.53			
15	QPSK	1	74	22.89	22.89	22.89			
15	QPSK	36	0	21.88	21.88	21.88	23	1	
15	QPSK	36	20	21.88	21.88	21.88			
15	QPSK	36	39	21.88	21.88	21.88			
15	QPSK	75	0	21.91	21.91	21.91	23	1	
15	16QAM	1	0	22.12	22.12	22.12			
15	16QAM	1	37	22.50	22.50	22.50			
15	16QAM	1	74	22.06	22.06	22.06	22	2	
15	16QAM	36	0	20.94	20.94	20.94			
15	16QAM	36	20	20.99	20.99	20.99			
15	16QAM	36	39	21.01	21.01	21.01	22	2	
15	16QAM	75	0	20.95	20.95	20.95			
15	64QAM	1	0	20.95	20.95	20.95			
15	64QAM	1	37	21.33	21.21	21.21	22	2	
15	64QAM	1	74	21.21	21.21	21.21			
15	64QAM	36	0	19.93	19.93	19.93			
15	64QAM	36	20	19.97	19.97	19.97	21	3	
15	64QAM	36	39	19.99	19.99	19.99			
15	64QAM	75	0	19.93	19.93	19.93			
Channel Frequency (MHz)									
10	QPSK	1	0	22.81	22.84	22.74	24	0	
10	QPSK	1	25	22.83	22.87	22.85			
10	QPSK	1	49	22.75	22.84	22.81			
10	QPSK	25	0	21.84	21.81	21.86	23	1	
10	QPSK	25	12	21.87	21.98	21.83			
10	QPSK	25	25	21.78	21.73	21.75			
10	QPSK	50	0	21.77	21.82	21.88	23	1	
10	16QAM	1	0	22.09	22.05	22.12			
10	16QAM	1	25	22.44	22.40	22.48			
10	16QAM	1	49	22.03	21.99	22.04	22	2	
10	16QAM	25	0	20.92	20.89	20.99			
10	16QAM	25	12	20.94	20.87	20.99			
10	16QAM	25	25	21.01	20.95	21.01	22	2	
10	16QAM	50	0	20.81	20.94	20.81			
10	64QAM	1	0	21.05	21.00	21.05			
10	64QAM	1	25	21.27	21.32	21.29	22	2	
10	64QAM	1	49	21.17	21.18	21.11			
10	64QAM	25	0	19.88	19.86	19.80			
10	64QAM	25	12	19.90	19.88	19.92	21	3	
10	64QAM	25	25	19.84	19.88	19.94			
10	64QAM	50	0	19.87	19.86	19.92			
Channel Frequency (MHz)									
5	QPSK	1	0	22.62	22.65	22.65	24	0	
5	QPSK	1	12	22.86	22.84	22.85			
5	QPSK	1	24	22.79	22.74	22.83			
5	QPSK	12	0	21.87	21.87	21.81	23	1	
5	QPSK	12	7	21.93	21.81	21.84			
5	QPSK	12	13	21.74	21.85	21.75			
5	QPSK	25	0	21.82	21.81	21.90	23	1	
5	16QAM	1	0	21.99	22.04	22.00			
5	16QAM	1	12	22.35	22.46	22.36			
5	16QAM	1	24	22.02	22.16	22.16	22	2	
5	16QAM	12	0	20.81	20.93	20.94			
5	16QAM	12	7	20.92	20.93	20.84			
5	16QAM	12	13	20.95	20.95	20.95	22	2	
5	16QAM	25	0	20.92	20.85	20.87			
5	64QAM	1	0	20.92	20.92	20.85			
5	64QAM	1	12	21.23	21.21	21.24	22	2	
5	64QAM	1	24	21.16	21.13	21.08			
5	64QAM	12	0	19.85	19.90	19.86			
5	64QAM	12	7	19.82	19.87	19.93	21	3	
5	64QAM	12	13	19.91	19.87	19.85			
5	64QAM	25	0	19.83	19.87	19.85			



Band 19_Ant 13

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)					
15	24075	837.5	23.06	24.5	0
15	QPSK	1	0		
15	QPSK	1	37		
15	QPSK	1	74		
15	QPSK	36	0		
15	QPSK	36	20		
15	QPSK	36	39		
15	QPSK	75	0		
15	16QAM	1	0		
15	16QAM	1	37		
15	16QAM	1	74		
15	16QAM	36	0		
15	16QAM	36	20		
15	16QAM	36	39		
15	16QAM	75	0		
15	64QAM	1	0		
15	64QAM	1	37		
15	64QAM	1	74		
15	64QAM	36	0		
15	64QAM	36	20		
15	64QAM	36	39		
15	64QAM	75	0		
Channel					
Frequency (MHz)					
10	24050	24075	24100	24.5	0
10	QPSK	1	0		
10	QPSK	1	25		
10	QPSK	1	49		
10	QPSK	25	0		
10	QPSK	25	12		
10	QPSK	25	25		
10	QPSK	50	0		
10	16QAM	1	0		
10	16QAM	1	25		
10	16QAM	1	49		
10	16QAM	25	0		
10	16QAM	25	12		
10	16QAM	25	25		
10	64QAM	1	0		
10	64QAM	1	25		
10	64QAM	1	49		
10	64QAM	25	0		
10	64QAM	25	12		
10	64QAM	25	25		
10	64QAM	50	0		
Channel					
Frequency (MHz)					
5	24025	24075	24125	24.5	0
5	QPSK	1	0		
5	QPSK	1	12		
5	QPSK	1	24		
5	QPSK	12	0		
5	QPSK	12	7		
5	QPSK	12	13		
5	QPSK	25	0		
5	16QAM	1	0		
5	16QAM	1	12		
5	16QAM	1	24		
5	16QAM	12	0		
5	16QAM	12	7		
5	16QAM	12	13		
5	64QAM	1	0		
5	64QAM	1	12		
5	64QAM	1	24		
5	64QAM	12	0		
5	64QAM	12	7		
5	64QAM	12	13		
5	64QAM	25	0		

Band 19_Ant 31

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)					
15	24075	837.5	22.75	24	0
15	QPSK	1	0		
15	QPSK	1	37		
15	QPSK	1	74		
15	QPSK	36	0		
15	QPSK	36	20		
15	QPSK	36	39		
15	QPSK	75	0		
15	16QAM	1	0		
15	16QAM	1	37		
15	16QAM	1	74		
15	16QAM	36	0		
15	16QAM	36	20		
15	16QAM	36	39		
15	16QAM	75	0		
15	64QAM	1	0		
15	64QAM	1	37		
15	64QAM	1	74		
15	64QAM	36	0		
15	64QAM	36	20		
15	64QAM	36	39		
15	64QAM	75	0		
Channel					
Frequency (MHz)					
10	24050	24075	24100	23	1
10	QPSK	1	0		
10	QPSK	1	25		
10	QPSK	1	49		
10	QPSK	25	0		
10	QPSK	25	12		
10	QPSK	25	25		
10	QPSK	50	0		
10	16QAM	1	0		
10	16QAM	1	25		
10	16QAM	1	49		
10	16QAM	25	0		
10	16QAM	25	12		
10	16QAM	25	25		
10	64QAM	1	0		
10	64QAM	1	25		
10	64QAM	1	49		
10	64QAM	25	0		
10	64QAM	25	12		
10	64QAM	25	25		
10	64QAM	50	0		
Channel					
Frequency (MHz)					
5	24025	24075	24125	22	2
5	QPSK	1	0		
5	QPSK	1	12		
5	QPSK	1	24		
5	QPSK	12	0		
5	QPSK	12	7		
5	QPSK	12	13		
5	QPSK	25	0		
5	16QAM	1	0		
5	16QAM	1	12		
5	16QAM	1	24		
5	16QAM	12	0		
5	16QAM	12	7		
5	16QAM	12	13		
5	64QAM	1	0		
5	64QAM	1	12		
5	64QAM	1	24		
5	64QAM	12	0		
5	64QAM	12	7		
5	64QAM	12	13		
5	64QAM	25	0		



Band 26_Ant 13

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Channel Frequency (MHz), Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows of channel data for various modulation schemes and RB sizes.

Band 26_Ant 31

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Channel Frequency (MHz), Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows of channel data for various modulation schemes and RB sizes.



Band 66_Ant 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 Frequency (MHz)								
20	QPSK	1	0	23.56	23.70	23.48	24.5	0
20	QPSK	1	49	23.56	23.70	23.48		
20	QPSK	1	99	23.36	23.36	23.36	23.5	1
20	QPSK	50	0	22.86	22.75	22.83		
20	QPSK	50	24	22.86	22.75	22.83	23.5	1
20	QPSK	50	50	22.77	22.81	22.86		
20	QPSK	100	0	22.64	22.80	22.84	23.5	1
20	16QAM	1	0	22.81	22.89	22.89		
20	16QAM	1	49	22.71	22.88	22.82	23.5	1
20	16QAM	1	99	22.69	22.70	22.88		
20	16QAM	50	0	21.84	21.77	21.81	22.5	2
20	16QAM	50	24	21.82	21.75	21.72		
20	16QAM	50	50	21.80	21.81	21.96	22.5	2
20	16QAM	100	0	21.71	21.83	21.71		
20	64QAM	1	0	21.89	21.95	21.97	22.5	2
20	64QAM	1	49	22.08	21.88	21.76		
20	64QAM	1	99	21.88	21.88	21.70	21.5	3
20	64QAM	50	0	20.88	20.77	20.73		
20	64QAM	50	24	20.74	20.76	20.75	21.5	3
20	64QAM	50	50	20.73	20.88	20.70		
20	64QAM	100	0	20.72	20.71	20.73	21.5	3
Channel Frequency (MHz)								
15	QPSK	1	0	23.43	23.55	23.41	24.5	0
15	QPSK	1	37	23.30	23.67	23.52		
15	QPSK	1	74	23.30	23.67	23.52	23.5	1
15	QPSK	36	0	22.51	22.85	22.58		
15	QPSK	36	36	22.68	22.75	22.87	23.5	1
15	QPSK	36	39	22.67	22.67	22.64		
15	QPSK	75	0	22.53	22.77	22.83	23.5	1
15	16QAM	1	0	22.72	22.68	22.87		
15	16QAM	1	37	22.67	22.53	22.80	22.5	2
15	16QAM	1	74	22.68	22.64	22.84		
15	16QAM	36	0	21.84	21.71	21.49	22.5	2
15	16QAM	36	20	21.79	21.68	21.72		
15	16QAM	36	39	21.71	21.49	21.51	22.5	2
15	16QAM	75	0	21.70	21.54	21.68		
15	64QAM	1	0	21.84	21.82	21.85	22.5	2
15	64QAM	1	37	21.86	21.75	21.73		
15	64QAM	1	49	21.63	21.58	21.69	21.5	3
15	64QAM	36	0	20.55	20.73	20.73		
15	64QAM	36	20	20.61	20.61	20.72	21.5	3
15	64QAM	36	39	20.63	20.59	20.70		
15	64QAM	75	0	20.58	20.68	20.68	21.5	3
Channel Frequency (MHz)								
10	QPSK	1	0	23.56	23.64	23.35	24.5	0
10	QPSK	1	25	23.65	23.70	23.83		
10	QPSK	1	49	23.50	23.31	23.33	23.5	1
10	QPSK	25	0	22.54	22.61	22.51		
10	QPSK	25	12	22.74	22.83	22.55	23.5	1
10	QPSK	25	25	22.67	22.87	22.84		
10	QPSK	50	0	22.58	22.71	22.82	23.5	1
10	16QAM	1	0	22.77	22.52	22.84		
10	16QAM	1	49	22.67	22.85	22.81	22.5	2
10	16QAM	25	0	21.83	21.77	21.49		
10	16QAM	25	12	21.80	21.74	21.57	22.5	2
10	16QAM	25	25	21.79	21.56	21.54		
10	16QAM	50	0	21.61	21.52	21.70	22.5	2
10	64QAM	1	0	21.75	21.83	21.96		
10	64QAM	1	25	21.89	21.84	21.71	22.5	2
10	64QAM	1	49	21.62	21.54	21.66		
10	64QAM	25	0	20.59	20.76	20.68	21.5	3
10	64QAM	25	12	20.72	20.65	20.72		
10	64QAM	25	25	20.64	20.54	20.69	21.5	3
10	64QAM	50	0	20.67	20.61	20.70		
Channel Frequency (MHz)								
5	QPSK	1	0	23.50	23.84	23.58	24.5	0
5	QPSK	1	12	23.56	23.84	23.83		
5	QPSK	1	24	23.25	23.25	23.39	23.5	1
5	QPSK	12	0	22.63	22.67	22.59		
5	QPSK	12	7	22.72	22.75	22.87	23.5	1
5	QPSK	12	13	22.78	22.72	22.53		
5	QPSK	25	0	22.60	22.76	22.55	23.5	1
5	16QAM	1	0	22.67	22.81	22.87		
5	16QAM	1	12	22.63	22.86	22.77	22.5	2
5	16QAM	1	24	22.61	22.85	22.58		
5	16QAM	12	0	21.84	21.70	21.57	22.5	2
5	16QAM	12	7	21.67	21.68	21.84		
5	16QAM	12	13	21.69	21.55	21.51	22.5	2
5	16QAM	25	0	21.67	21.48	21.51		
5	64QAM	1	0	21.67	21.86	21.83	22.5	2
5	64QAM	1	12	22.01	21.84	21.81		
5	64QAM	1	24	21.83	21.55	21.85	21.5	3
5	64QAM	12	0	20.60	20.62	20.65		
5	64QAM	12	7	20.70	20.66	20.83	21.5	3
5	64QAM	12	13	20.60	20.58	20.57		
5	64QAM	25	0	20.60	20.67	20.73	21.5	3
Channel Frequency (MHz)								
3	QPSK	1	0	23.42	23.69	23.39	24.5	0
3	QPSK	1	8	23.63	23.73	23.51		
3	QPSK	1	14	23.27	23.31	23.27	23.5	1
3	QPSK	8	0	22.66	22.70	22.50		
3	QPSK	8	4	22.68	22.81	22.57	23.5	1
3	QPSK	8	7	22.67	22.70	22.55		
3	QPSK	15	0	22.53	22.89	22.55	23.5	1
3	16QAM	1	0	22.80	22.53	22.86		
3	16QAM	1	8	22.67	22.80	22.78	22.5	2
3	16QAM	1	14	22.58	22.65	22.54		
3	16QAM	8	0	21.55	21.63	21.58	22.5	2
3	16QAM	8	4	21.74	21.81	21.85		
3	16QAM	8	7	21.79	21.68	21.50	22.5	2
3	16QAM	15	0	21.64	21.59	21.58		
3	64QAM	1	0	21.86	21.85	21.91	22.5	2
3	64QAM	1	8	22.06	21.78	21.83		
3	64QAM	1	14	21.62	21.62	21.61	21.5	3
3	64QAM	8	0	20.58	20.73	20.62		
3	64QAM	8	4	20.67	20.74	20.63	21.5	3
3	64QAM	8	7	20.72	20.67	20.55		
3	64QAM	15	0	20.65	20.63	20.61	21.5	3
Channel Frequency (MHz)								
1.4	QPSK	1	0	23.54	23.62	23.55	24.5	0
1.4	QPSK	1	3	23.53	23.73	23.63		
1.4	QPSK	1	5	23.53	23.40	23.55	23.5	1
1.4	QPSK	3	0	23.24	23.53	23.59		
1.4	QPSK	3	1	23.26	23.21	23.53	23.5	1
1.4	QPSK	3	3	23.52	23.26	23.55		
1.4	QPSK	6	0	23.27	23.32	23.28	23.5	1
1.4	16QAM	1	0	22.63	22.77	22.70		
1.4	16QAM	1	3	22.70	22.58	22.89	23.5	1
1.4	16QAM	1	5	22.69	22.58	22.58		
1.4	16QAM	3	0	22.63	22.81	22.59	22.5	2
1.4	16QAM	3	1	22.63	22.70	22.85		
1.4	16QAM	3	3	22.78	22.71	22.59	22.5	2
1.4	16QAM	6	0	21.60	21.48	21.85		
1.4	64QAM	1	0	21.82	21.89	21.92	22.5	2
1.4	64QAM	1	3	21.69	21.60	21.84		
1.4	64QAM	1	5	21.83	21.59	21.81	21.5	3
1.4	64QAM	3	0	21.72	21.71	21.85		
1.4	64QAM	3	1	21.70	21.63	21.86	21.5	3
1.4	64QAM	3	3	21.80	21.73	21.63		
1.4	64QAM	6	0	20.67	20.69	20.72	21.5	3
Channel Frequency (MHz)								

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)								
20	QPSK	1	0	23.02	23.07	23.06	24	0
20	QPSK	1	49	23.02	23.05	23.04		
20	QPSK	1	99	22.89	22.90	22.94	23	1
20	QPSK	50	0	22.08	22.17	22.19		
20	QPSK	50	24	22.08	22.05	22.24	23	1
20	QPSK	50	50	22.18	22.18	22.18		
20	QPSK	100	0	22.12	22.19	22.18	23	1
20	16QAM	1	0	22.21	22.27	22.29		
20	16QAM	1	49	22.49	22.49	22.69	23	1
20	16QAM	1	99	22.25	22.24	22.39		
20	16QAM	50	0	21.13	21.22	21.19	22	2
20	16QAM	50	24	21.20	21.19	21.23		
20	16QAM	50	50	21.20	21.17	21.88	22	2
20	16QAM	100	0	21.21	21.07	21.13		
20	64QAM	1	0	21.07	21.14	21.14	22	2
20	64Q							



Band 38_Ant 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								
Frequency (MHz)								
20	QPSK	1	0	24.01	24.10	24.09	25	0
20	QPSK	1	49	24.24	24.33	24.23		
20	QPSK	1	99	24.47	24.56	24.46		
20	QPSK	50	0	23.24	23.16	23.31	24	1
20	QPSK	50	24	23.51	23.43	23.35		
20	QPSK	50	50	23.78	23.70	23.62		
20	QPSK	100	0	23.15	23.25	23.34	24	1
20	16QAM	1	0	23.27	23.24	23.32		
20	16QAM	1	49	23.51	23.48	23.45		
20	16QAM	50	0	22.19	22.19	22.40	23	2
20	16QAM	50	24	22.32	22.38	22.45		
20	16QAM	50	50	22.29	22.31	22.43		
20	16QAM	100	0	22.25	22.30	22.36	23	2
20	64QAM	1	49	22.44	22.48	22.54		
20	64QAM	1	99	22.35	22.35	22.36		
20	64QAM	50	0	21.19	21.26	21.27	22	3
20	64QAM	50	24	21.36	21.42	21.48		
20	64QAM	50	50	21.27	21.33	21.46		
20	64QAM	100	0	21.20	21.27	21.39	25	0
15	QPSK	1	0	23.55	24.01	24.05		
15	QPSK	1	37	24.12	24.19	24.27		
15	QPSK	1	74	24.04	24.06	24.01	24	1
15	QPSK	36	0	23.16	23.02	23.16		
15	QPSK	36	20	23.17	23.32	23.26		
15	QPSK	36	39	23.12	23.22	23.27	24	1
15	QPSK	75	0	23.01	23.29	23.25		
15	QPSK	75	0	23.23	23.21	23.32		
15	16QAM	1	0	23.42	23.50	23.36	24	1
15	16QAM	1	37	23.18	23.34	23.47		
15	16QAM	1	74	23.02	23.13	23.42		
15	16QAM	36	0	22.15	22.10	22.28	23	2
15	16QAM	36	20	22.27	22.23	22.42		
15	16QAM	36	39	22.25	22.25	22.31		
15	16QAM	75	0	22.13	22.22	22.36	23	2
15	64QAM	1	0	21.51	21.29	22.29		
15	64QAM	1	37	22.32	22.37	22.46		
15	64QAM	1	74	22.25	22.30	22.23	22	3
15	64QAM	36	0	21.07	21.14	21.29		
15	64QAM	36	20	21.33	21.28	21.47		
15	64QAM	36	39	21.26	21.27	21.31	25	0
15	64QAM	75	0	21.13	21.19	21.31		
15	64QAM	75	0	21.33	21.39	21.31		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.90	24.02	24.03	25	0
10	QPSK	1	25	24.23	24.31	24.21		
10	QPSK	1	49	24.08	24.02	24.10		
10	QPSK	25	0	23.18	23.08	23.24	24	1
10	QPSK	25	12	23.23	23.31	23.35		
10	QPSK	25	25	23.11	23.24	23.26		
10	16QAM	1	0	23.24	23.09	23.25	24	1
10	16QAM	1	25	23.38	23.46	23.43		
10	16QAM	1	49	23.30	23.48	23.42		
10	16QAM	25	0	22.16	22.19	22.38	23	2
10	16QAM	25	12	22.18	22.23	22.39		
10	16QAM	25	25	22.23	22.28	22.43		
10	16QAM	50	0	22.13	22.16	22.26	23	2
10	64QAM	1	0	22.00	22.08	22.20		
10	64QAM	1	25	22.33	22.47	22.47		
10	64QAM	1	49	22.34	22.33	22.23	22	3
10	64QAM	25	0	21.09	21.17	21.25		
10	64QAM	25	12	21.35	21.29	21.40		
10	64QAM	25	25	21.14	21.33	21.46	25	0
10	64QAM	50	0	21.10	21.22	21.31		
10	64QAM	50	0	21.72	21.79	21.72		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.00	24.05	24.03	25	0
5	QPSK	1	12	24.17	24.23	24.17		
5	QPSK	1	24	24.03	24.34	24.13		
5	QPSK	12	0	23.21	23.04	23.17	24	1
5	QPSK	12	7	23.22	23.34	23.33		
5	QPSK	12	13	23.12	23.17	23.24		
5	QPSK	25	0	23.12	23.21	23.27	24	1
5	16QAM	1	0	23.27	23.11	23.21		
5	16QAM	1	12	23.48	23.47	23.37		
5	16QAM	1	24	23.33	23.44	23.38	23	2
5	16QAM	12	0	22.06	22.10	22.39		
5	16QAM	12	7	22.23	22.22	22.41		
5	16QAM	12	13	22.21	22.29	22.35	23	2
5	64QAM	1	0	22.02	22.10	22.30		
5	64QAM	1	12	22.31	22.39	22.53		
5	64QAM	1	24	22.33	22.25	22.24	22	3
5	64QAM	12	0	21.17	21.15	21.19		
5	64QAM	12	7	21.29	21.33	21.47		
5	64QAM	12	13	21.19	21.19	21.33	25	0
5	64QAM	25	0	21.17	21.26	21.30		
5	64QAM	25	0	21.17	21.26	21.30		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.71	23.72	23.70	24.5	0
20	QPSK	1	49	23.98	24.03	23.99		
20	QPSK	1	99	24.21	24.07	23.92		
20	QPSK	50	0	22.99	22.97	22.90	23.5	1
20	QPSK	50	24	23.06	23.10	23.05		
20	QPSK	50	50	23.05	23.01	23.04		
20	QPSK	100	0	23.08	23.09	23.04	23.5	1
20	16QAM	1	0	23.12	23.05	22.99		
20	16QAM	1	49	23.37	23.36	23.24		
20	16QAM	50	0	22.05	22.02	21.97	22.5	2
20	16QAM	50	24	22.30	22.14	22.14		
20	16QAM	50	50	22.14	22.19	22.11		
20	16QAM	100	0	22.08	22.08	22.11	22.5	2
20	64QAM	1	49	22.30	22.19	22.21		
20	64QAM	1	99	22.08	22.05	22.04		
20	64QAM	50	0	21.08	20.98	21.05	21.5	3
20	64QAM	50	24	21.28	21.12	21.16		
20	64QAM	50	50	21.14	21.22	21.18		
20	64QAM	100	0	21.08	21.11	21.08	25	0
15	QPSK	1	0	23.53	23.53	23.53		
15	QPSK	1	37	23.88	23.89	23.85		
15	QPSK	1	74	23.81	23.76	23.77	24.5	0
15	QPSK	36	0	22.99	22.99	22.95		
15	QPSK	36	20	22.96	23.00	22.94		
15	QPSK	36	39	22.92	22.88	22.95	23.5	1
15	QPSK	75	0	22.93	23.03	23.00		
15	QPSK	75	0	23.01	22.99	22.85		
15	16QAM	1	0	23.35	23.34	23.18	23.5	1
15	16QAM	1	37	23.02	23.13	23.47		
15	16QAM	1	74	23.02	23.13	23.47		
15	16QAM	36	0	21.96	22.01	21.93	22.5	2
15	16QAM	36	20	22.15	22.03	22.04		
15	16QAM	36	39	22.07	22.09	22.10		
15	16QAM	75	0	21.99	22.03	21.99	22.5	2
15	64QAM	1	0	21.86	21.88	22.06		
15	64QAM	1	37	22.24	22.18	22.18		
15	64QAM	1	74	22.02	22.01	22.04	21.5	3
15	64QAM	36	0	21.01	20.80	20.94		
15	64QAM	36	20	21.21	21.00	21.11		
15	64QAM	36	39	21.10	21.21	21.14	25	0
15	64QAM	75	0	20.98	21.05	21.13		
15	64QAM	75	0	21.38	21.35	21.33		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.67	23.61	23.70	24.5	0
10	QPSK	1	25	23.83	23.82	23.84		
10	QPSK	1	49	23.76	23.84	23.81		
10	QPSK	25	0	22.90	22.86	22.94	23.5	1
10	QPSK	25	12	23.00	23.00	22.95		
10	QPSK	25	25	23.00	22.88	22.96		
10	16QAM	1	0	23.09	22.86	22.87	23.5	1
10	16QAM	1	25	23.25	23.34	23.15		
10	16QAM	1	49	23.05	23.04	23.08		
10	16QAM	25	0	22.03	21.88	21.93	22.5	2
10	16QAM	25	12	22.15	22.03	22.14		
10	16QAM	25	25	22.14	22.15	21.97		
10	16QAM	50	0	22.04	22.02	22.07	22.5	2
10	64QAM	1	0	21.90	21.82	21.92		
10	64QAM	1	25	22.30	22.08	22.11		
10	64QAM	1	49	21.97	21.81	21.93	21.5	3
10	64QAM	25	0	20.96	20.85	21.05		
10	64QAM	25	12	21.21	21.07	21.13		
10	64QAM	25	25	21.03	21.08	21.13	25	0
10	64QAM	50	0	20.93	20.90	21.04		
10	64QAM	50	0	21.72	21.79	21.72		
Channel								



Band 41_Ant 13

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low, Middle, High Ch / Freq), Tune-up limit (dBm), MPR (dB). Contains multiple channel frequency lists for various modulation types and RB sizes.

Band 41_Ant 31

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low, Middle, High Ch / Freq), Tune-up limit (dBm), MPR (dB). Contains multiple channel frequency lists for various modulation types and RB sizes.



Reduced Power Mode for DSI2

<GSM>

GSM850_Ant 13				GSM1900_Ant 13			
TX Channel	Burst	Average Power (dBm)	Tune-up Limit	TX Channel	Burst	Average Power (dBm)	Tune-up Limit
Frequency (MHz)	824.2	836.4	848.8	Frequency (MHz)	1850.2	1862	1873.8
GSM 1 Tx slot	31.08	31.04	31.00	GSM 1 Tx slot	25.24	25.12	25.05
GPRS-EDGE(GMSK) 1 Tx slot	31.28	31.26	31.24	GPRS-EDGE(GMSK) 1 Tx slot	25.20	25.20	25.04
GPRS-EDGE(GMSK) 2 Tx slots	28.63	28.65	28.61	GPRS-EDGE(GMSK) 2 Tx slots	22.14	22.01	21.99
GPRS-EDGE(GMSK) 3 Tx slots	26.04	26.01	26.01	GPRS-EDGE(GMSK) 3 Tx slots	19.20	19.04	19.08
GPRS-EDGE(GMSK) 4 Tx slots	25.12	25.12	25.13	GPRS-EDGE(GMSK) 4 Tx slots	18.48	18.62	18.48
EDGE 1 Tx slot	26.85	26.88	26.85	EDGE 1 Tx slot	25.36	25.27	25.01
EDGE 2 Tx slots	25.01	25.02	24.87	EDGE 2 Tx slots	23.47	23.14	23.05
EDGE 3 Tx slots	22.75	22.82	22.77	EDGE 3 Tx slots	20.36	20.31	20.16
EDGE 4 Tx slots	20.90	20.80	20.82	EDGE 4 Tx slots	19.19	19.21	19.12

<GSM>

GSM850_Ant 31				GSM1900_Ant 31			
TX Channel	Burst	Average Power (dBm)	Tune-up Limit	TX Channel	Burst	Average Power (dBm)	Tune-up Limit
Frequency (MHz)	824.2	836.4	848.8	Frequency (MHz)	1850.2	1862	1873.8
GSM 1 Tx slot	32.30	32.43	32.42	GSM 1 Tx slot	30.06	30.16	30.15
GPRS-EDGE(GMSK) 1 Tx slot	32.28	32.42	32.41	GPRS-EDGE(GMSK) 1 Tx slot	27.44	27.58	27.55
GPRS-EDGE(GMSK) 2 Tx slots	30.19	30.35	30.34	GPRS-EDGE(GMSK) 2 Tx slots	25.50	25.63	25.62
GPRS-EDGE(GMSK) 3 Tx slots	28.01	28.18	28.17	GPRS-EDGE(GMSK) 3 Tx slots	23.46	23.58	23.57
GPRS-EDGE(GMSK) 4 Tx slots	25.78	25.93	25.92	GPRS-EDGE(GMSK) 4 Tx slots	22.88	23.07	23.00
EDGE 1 Tx slot	26.37	26.62	26.61	EDGE 1 Tx slot	24.37	24.46	24.58
EDGE 2 Tx slots	24.56	24.61	24.65	EDGE 2 Tx slots	22.65	22.64	22.69
EDGE 3 Tx slots	22.28	22.34	22.51	EDGE 3 Tx slots	20.55	20.62	20.61
EDGE 4 Tx slots	19.91	20.03	20.18	EDGE 4 Tx slots	17.55	17.62	17.61

<WCDMA>

Band	WCDMA II_Ant 13				WCDMA IV_Ant 13				WCDMA V_Ant 13				
	TX Channel	5262	9400	9538	TX Channel	1312	1413	1513	TX Channel	4132	4192	4233	
Rx Channel	8662	9800	9938	Limit	1537	1638	1738	Limit	4367	4407	4458	Limit	
Frequency (MHz)	1892.4	1890	1907.6	(dBm)	1722.4	1727.6	1729.6	(dBm)	4264	4264	4264	(dBm)	
3GPP Rel 99	15.09	15.07	15.11	18.00	14.93	14.99	14.91	18.00	21.21	21.25	21.24	22.00	
3GPP Rel 99	AMR 12.2Kbps	15.10	15.16	15.12	18.00	14.91	15.05	14.94	18.00	21.22	21.27	21.25	22.00
3GPP Rel 6	HSDPA Subtest-1	14.17	14.10	14.18	15.00	13.92	13.94	13.89	15.00	20.33	20.37	20.42	21.00
3GPP Rel 6	HSDPA Subtest-2	13.99	14.11	14.19	15.00	14.01	13.95	13.87	15.00	20.38	20.38	20.30	21.00
3GPP Rel 6	HSDPA Subtest-3	13.57	13.51	13.66	14.50	13.43	13.41	13.52	14.50	19.92	19.92	19.77	20.50
3GPP Rel 6	HSDPA Subtest-4	13.61	13.54	13.66	14.50	13.61	13.52	13.46	14.50	19.92	19.93	19.65	20.50
3GPP Rel 8	DC-HSDPA Subtest-1	14.20	14.10	14.13	15.00	13.81	13.91	13.88	15.00	20.31	20.30	20.40	21.00
3GPP Rel 8	DC-HSDPA Subtest-2	13.97	14.05	14.18	15.00	14.03	13.93	13.90	15.00	20.33	20.36	20.19	21.00
3GPP Rel 8	DC-HSDPA Subtest-3	13.55	13.57	13.67	14.50	13.34	13.30	13.38	14.50	19.85	19.83	19.74	20.50
3GPP Rel 8	DC-HSDPA Subtest-4	13.58	13.40	13.52	14.50	13.55	13.30	13.46	14.50	19.90	19.88	19.64	20.50
3GPP Rel 6	HSUPA Subtest-1	12.18	12.12	12.12	13.00	11.92	11.93	11.92	13.00	19.42	19.43	19.49	20.00
3GPP Rel 6	HSUPA Subtest-2	12.22	12.14	12.11	13.00	11.88	11.97	11.88	13.00	19.35	19.47	19.37	20.00
3GPP Rel 6	HSUPA Subtest-3	13.17	13.15	13.29	14.00	12.93	12.98	12.98	14.00	20.37	20.38	20.37	21.00
3GPP Rel 6	HSUPA Subtest-4	11.60	11.69	11.73	12.50	11.44	11.46	11.49	12.50	18.80	18.89	18.84	19.50
3GPP Rel 6	HSUPA Subtest-5	13.11	13.12	13.14	14.00	12.85	12.93	12.93	14.00	20.30	20.30	20.31	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.14	12.27	12.09	13.00	11.93	12.03	12.07	13.00	19.33	19.49	19.35	20.00

Band	WCDMA II_Ant 31				WCDMA IV_Ant 31				WCDMA V_Ant 31				
	TX Channel	5262	9400	9538	TX Channel	1312	1413	1513	TX Channel	4132	4182	4233	
Rx Channel	8662	9800	9938	Limit	1537	1638	1738	Limit	4367	4407	4458	Limit	
Frequency (MHz)	1892.4	1880	1907.6	(dBm)	1712.4	1732.6	1752.6	(dBm)	4264	4264	4264	(dBm)	
3GPP Rel 99	AMR 12.2Kbps	23.22	23.31	23.29	24.00	23.05	23.16	23.14	24.00	23.25	23.28	23.23	24.00
3GPP Rel 6	HSDPA Subtest-1	22.27	22.27	22.45	23.00	22.02	22.16	22.10	23.00	22.23	22.25	22.30	23.00
3GPP Rel 6	HSDPA Subtest-2	22.14	22.13	22.17	23.00	21.91	22.06	22.10	23.00	22.15	22.13	22.11	23.00
3GPP Rel 6	HSDPA Subtest-3	21.78	21.65	21.79	22.50	21.44	21.63	21.63	22.50	21.66	21.78	21.69	22.50
3GPP Rel 6	HSDPA Subtest-4	21.68	21.61	21.77	22.50	21.50	21.64	21.64	22.50	21.68	21.62	21.67	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.23	22.20	22.40	23.00	22.00	22.10	22.03	23.00	22.19	22.23	22.27	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.07	22.08	22.12	23.00	21.94	21.99	22.06	23.00	22.11	22.08	22.07	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.75	21.63	21.75	22.50	21.40	21.49	21.57	22.50	21.61	21.73	21.67	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.63	21.59	21.74	22.50	21.44	21.55	21.57	22.50	21.62	21.57	21.63	22.50
3GPP Rel 6	HSUPA Subtest-1	20.37	20.23	20.52	21.20	20.11	20.19	20.17	21.00	21.17	20.98	21.10	22.50
3GPP Rel 6	HSUPA Subtest-2	20.28	20.27	20.42	21.20	20.09	20.14	20.13	21.00	21.00	21.07	21.00	22.50
3GPP Rel 6	HSUPA Subtest-3	21.27	21.28	21.48	22.00	21.06	21.17	21.15	22.00	21.94	22.00	21.92	23.00
3GPP Rel 6	HSUPA Subtest-4	19.89	19.72	20.01	20.50	19.57	19.60	19.61	20.50	20.43	20.49	20.45	21.50
3GPP Rel 6	HSUPA Subtest-5	21.30	21.20	21.30	22.00	21.00	21.10	21.10	22.00	21.90	21.90	21.90	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.34	20.33	20.44	21.20	20.15	20.20	20.18	21.20	21.14	21.04	21.05	22.50



Band 2_Ant 13											
BW (MHz)	Modulation	Channel	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)											
20	QPSK	1	0	0	14.44	14.37	14.35	15.6	0		
20	QPSK	1	49	0	14.43	14.31	14.29				
20	QPSK	1	99	0	14.28	14.35	14.22				
20	QPSK	50	0	0	14.35	14.41	14.29				
20	QPSK	50	24	0	14.31	14.66	14.33				
20	QPSK	50	50	0	14.22	14.31	14.25				
20	QPSK	100	0	0	14.50	14.54	14.39				
20	16QAM	1	0	0	15.30	14.53	14.40				
20	16QAM	1	49	0	14.82	14.58	14.60				
20	16QAM	1	99	0	14.35	14.47	14.39				
20	16QAM	50	0	0	14.40	14.36	14.24				
20	16QAM	50	24	0	14.27	14.47	14.37				
20	16QAM	50	50	0	14.20	14.20	14.10				
20	16QAM	100	0	0	14.18	14.36	14.29				
20	64QAM	1	0	0	14.55	14.54	14.62				
20	64QAM	1	49	0	14.62	14.58	14.38				
20	64QAM	1	99	0	14.49	14.40	14.32				
20	64QAM	50	0	0	14.51	14.54	14.37				
20	64QAM	50	24	0	14.39	14.56	14.34				
20	64QAM	50	50	0	14.31	14.31	14.35				
20	64QAM	100	0	0	14.20	14.38	14.34				
Channel Frequency (MHz)											
15	QPSK	1	0	0	14.41	14.35	14.30	15.6	0		
15	QPSK	1	49	0	14.43	14.48	14.48				
15	QPSK	1	74	0	14.17	14.25	14.12				
15	QPSK	36	0	0	14.24	14.31	14.24				
15	QPSK	36	24	0	14.48	14.55	14.45				
15	QPSK	36	39	0	14.15	14.23	14.17				
15	QPSK	75	0	0	14.44	14.48	14.38				
15	16QAM	1	0	0	14.27	14.33	14.29				
15	16QAM	1	37	0	14.60	14.54	14.52				
15	16QAM	1	74	0	14.29	14.38	14.27				
15	16QAM	36	0	0	14.38	14.33	14.26				
15	16QAM	36	20	0	14.19	14.38	14.31				
15	16QAM	36	39	0	14.12	14.14	14.08				
15	16QAM	75	0	0	14.11	14.31	14.24				
15	64QAM	1	0	0	14.53	14.42	14.50				
15	64QAM	1	37	0	14.50	14.56	14.54				
15	64QAM	1	74	0	14.45	14.36	14.56				
15	64QAM	36	0	0	14.48	14.46	14.25				
15	64QAM	36	20	0	14.30	14.46	14.28				
15	64QAM	75	0	0	14.20	14.24	14.33				
15	64QAM	75	0	0	14.15	14.31	14.26				
Channel Frequency (MHz)											
10	QPSK	1	0	0	14.33	14.27	14.28	15.6	0		
10	QPSK	1	25	0	14.41	14.65	14.46				
10	QPSK	1	49	0	14.18	14.33	14.20				
10	QPSK	25	0	0	14.26	14.31	14.22				
10	QPSK	25	12	0	14.47	14.61	14.42				
10	QPSK	25	25	0	14.15	14.20	14.20				
10	QPSK	50	0	0	14.42	14.47	14.27				
10	16QAM	1	0	0	14.19	14.28	14.34				
10	16QAM	1	25	0	14.54	14.54	14.56				
10	16QAM	1	49	0	14.32	14.38	14.31				
10	16QAM	25	0	0	14.28	14.25	14.12				
10	16QAM	25	12	0	14.17	14.35	14.27				
10	16QAM	25	25	0	14.11	14.18	14.05				
10	16QAM	50	0	0	14.14	14.24	14.27				
10	64QAM	1	0	0	14.53	14.42	14.48				
10	64QAM	1	25	0	14.59	14.46	14.48				
10	64QAM	1	49	0	14.41	14.37	14.29				
10	64QAM	25	0	0	14.43	14.46	14.29				
10	64QAM	25	12	0	14.29	14.52	14.27				
10	64QAM	25	25	0	14.19	14.20	14.29				
10	64QAM	50	0	0	14.15	14.31	14.25				
Channel Frequency (MHz)											
5	QPSK	1	0	0	14.35	14.25	14.27	15.6	0		
5	QPSK	1	12	0	14.43	14.59	14.45				
5	QPSK	1	24	0	14.18	14.32	14.18				
5	QPSK	12	0	0	14.33	14.37	14.23				
5	QPSK	12	7	0	14.40	14.59	14.42				
5	QPSK	12	13	0	14.13	14.21	14.20				
5	QPSK	25	0	0	14.47	14.44	14.27				
5	16QAM	1	0	0	14.23	14.24	14.35				
5	16QAM	1	12	0	14.56	14.52	14.55				
5	16QAM	1	24	0	14.27	14.35	14.35				
5	16QAM	12	0	0	14.28	14.34	14.20				
5	16QAM	12	7	0	14.24	14.37	14.35				
5	16QAM	12	13	0	14.09	14.10	14.02				
5	16QAM	25	0	0	14.15	14.28	14.24				
5	64QAM	1	0	0	14.53	14.50	14.53				
5	64QAM	1	12	0	14.51	14.50	14.47				
5	64QAM	1	24	0	14.42	14.38	14.24				
5	64QAM	12	0	0	14.38	14.45	14.25				
5	64QAM	12	7	0	14.35	14.53	14.29				
5	64QAM	12	13	0	14.25	14.20	14.33				
5	64QAM	25	0	0	14.17	14.30	14.30				
Channel Frequency (MHz)											
3	QPSK	1	0	0	14.40	14.25	14.25	15.6	0		
3	QPSK	1	8	0	14.47	14.69	14.44				
3	QPSK	1	16	0	14.20	14.23	14.20				
3	QPSK	8	0	0	14.28	14.33	14.25				
3	QPSK	8	4	0	14.48	14.60	14.45				
3	QPSK	8	7	0	14.17	14.26	14.16				
3	QPSK	15	0	0	14.30	14.46	14.36				
3	16QAM	1	0	0	14.18	14.22	14.30				
3	16QAM	1	8	0	14.58	14.49	14.50				
3	16QAM	1	16	0	14.29	14.35	14.31				
3	16QAM	8	0	0	14.38	14.24	14.14				
3	16QAM	8	4	0	14.15	14.39	14.35				
3	16QAM	8	7	0	14.08	14.11	14.01				
3	64QAM	1	0	0	14.14	14.27	14.24				
3	64QAM	1	8	0	14.49	14.52	14.54				
3	64QAM	1	16	0	14.51	14.51	14.45				
3	64QAM	1	14	0	14.42	14.38	14.27				
3	64QAM	8	0	0	14.40	14.50	14.35				
3	64QAM	8	4	0	14.28	14.48	14.30				
3	64QAM	8	7	0	14.29	14.29	14.24				
3	64QAM	15	0	0	14.06	14.30	14.25				
Channel Frequency (MHz)											
1.4	QPSK	1	0	0	14.39	14.25	14.23	15.6	0		
1.4	QPSK	1	3	0	14.44	14.66	14.44				
1.4	QPSK	1	5	0	14.16	14.32	14.17				
1.4	QPSK	3	0	0	14.31	14.29	14.17				
1.4	QPSK	3	1	0	14.45	14.54	14.44				
1.4	QPSK	3	3	0	14.13	14.19	14.19				
1.4	QPSK	6	0	0	14.36	14.47	14.27				
1.4	16QAM	1	0	0	14.19	14.31	14.35				
1.4	16QAM	1	3	0	14.59	14.49	14.54				
1.4	16QAM	1	5	0	14.32	14.45	14.33				
1.4	16QAM	3	0	0	14.35	14.33	14.18				
1.4	16QAM	3	1	0	14.17	14.37	14.30				
1.4	16QAM	3	3	0	14.17	14.15	14.09				
1.4	16QAM	6	0	0	14.11	14.30	14.19				
1.4	64QAM	1	0	0	14.48	14.50	14.59				
1.4	64QAM	1	3	0	14.56	14.49	14.52				
1.4	64QAM	1	5	0	14.42	14.37	14.20				
1.4	64QAM	3	0	0	14.45	14.48	14.28				
1.4	64QAM	3	1	0	14.34	14.54	14.27				
1.4	64QAM	3	3	0	14.27	14.28	14.32				
1.4	64QAM	6	0	0	14.16	14.26	14.32				

Band 2_Ant 31											
BW (MHz)	Modulation	Channel	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)											
20	QPSK	1	0	0	23.1	23.06	23.04	24	0		
20	QPSK	1	49	0	23.14	23.46	23.44				
20	QPSK	1	99	0	23.1	23.09	23.04				
20	QPSK	50	0	0	22.27	22.35	22.25				
20	QPSK	50	24	0	22.38	22.41	22.41				
20	QPSK	50	50	0	22.25	22.17	22.31				
20	QPSK	100	0	0	22.26	22.35	22.31				
20	16QAM	1	0	0	22.43	22.69	22.77				
20	16QAM	1	49	0	22.71	22.85	22.84				
20	16QAM	1	99	0	22.4	22.58	22.55				
20	16QAM	50	0	0	23.19	23.45	23.23				
20	16QAM	50	24	0	21.38	21.44	21.34				
20	16QAM	50	50	0	21.39	21.23	21.21				
20	16QAM	100	0	0	21.29	21.27	21.28				
20	64QAM	1	0	0	21.27	21.29	21.24				
20	64QAM	1	49	0	21.43	21.47	21.58				
20	64QAM	1	99	0	23.41	23.41	23.45				
20	64QAM	50	0	0	20.17	20.45	20.25				
20	64QAM	50	24	0	20.45	20.44	20.44				
20	64QAM	50	50	0	20.42	20.26	20.2				



Band 4_Ant 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								
Frequency (MHz)								
20	QPSK	1	0	15.17	15.26	15.25	16.5	0
20	QPSK	1	49	15.17	15.26	15.25	16.5	0
20	QPSK	1	99	15.28	15.19	15.11	16.5	0
20	QPSK	50	0	15.34	15.31	15.52	16.5	0
20	QPSK	50	24	15.34	15.60	15.50	16.5	0
20	QPSK	50	50	15.52	15.49	15.39	16.5	0
20	QPSK	100	0	15.52	15.55	15.34	16.5	0
20	16QAM	1	0	15.8	15.58	15.58	16.5	0
20	16QAM	1	49	15.58	15.58	15.6	16.5	0
20	16QAM	1	99	15.61	15.67	15.58	16.5	0
20	16QAM	50	0	15.5	15.67	15.45	16.5	0
20	16QAM	50	24	15.51	15.58	15.37	16.5	0
20	16QAM	50	50	15.47	15.52	15.32	16.5	0
20	16QAM	100	0	15.31	15.41	15.21	16.5	0
20	64QAM	1	0	15.58	15.55	15.6	16.5	0
20	64QAM	1	49	15.6	15.59	15.53	16.5	0
20	64QAM	1	99	15.56	15.57	15.53	16.5	0
20	64QAM	50	0	15.55	15.38	15.53	16.5	0
20	64QAM	50	24	15.53	15.53	15.39	16.5	0
20	64QAM	50	50	15.44	15.55	15.33	16.5	0
20	64QAM	100	0	15.48	15.47	15.42	16.5	0
Channel								
Frequency (MHz)								
15	QPSK	1	0	15.11	15.24	15.21	16.5	0
15	QPSK	1	49	15.50	15.54	15.41	16.5	0
15	QPSK	1	74	15.21	15.11	15.07	16.5	0
15	QPSK	36	0	15.29	15.23	15.47	16.5	0
15	QPSK	36	15	15.53	15.48	15.58	16.5	0
15	QPSK	36	39	15.41	15.43	15.30	16.5	0
15	QPSK	75	0	15.47	15.44	15.32	16.5	0
15	16QAM	1	0	15.46	15.50	15.47	16.5	0
15	16QAM	1	37	15.50	15.56	15.56	16.5	0
15	16QAM	1	74	15.56	15.47	15.54	16.5	0
15	16QAM	36	0	15.46	15.44	15.36	16.5	0
15	16QAM	36	20	15.47	15.47	15.34	16.5	0
15	16QAM	36	39	15.43	15.40	15.21	16.5	0
15	16QAM	75	0	15.21	15.32	15.12	16.5	0
15	64QAM	1	0	15.50	15.51	15.55	16.5	0
15	64QAM	1	37	15.52	15.48	15.43	16.5	0
15	64QAM	1	74	15.48	15.46	15.50	16.5	0
15	64QAM	36	0	15.46	15.33	15.47	16.5	0
15	64QAM	36	20	15.47	15.49	15.36	16.5	0
15	64QAM	36	39	15.37	15.43	15.29	16.5	0
15	64QAM	75	0	15.43	15.45	15.40	16.5	0
Channel								
Frequency (MHz)								
10	QPSK	1	0	15.09	15.21	15.22	16.5	0
10	QPSK	1	25	15.53	15.57	15.35	16.5	0
10	QPSK	1	49	15.28	15.09	15.05	16.5	0
10	QPSK	25	0	15.24	15.22	15.46	16.5	0
10	QPSK	25	12	15.49	15.54	15.48	16.5	0
10	QPSK	25	25	15.46	15.39	15.33	16.5	0
10	QPSK	50	0	15.47	15.44	15.32	16.5	0
10	16QAM	1	0	15.54	15.53	15.51	16.5	0
10	16QAM	1	25	15.44	15.55	15.55	16.5	0
10	16QAM	1	49	15.49	15.52	15.57	16.5	0
10	16QAM	25	0	15.46	15.36	15.42	16.5	0
10	16QAM	25	12	15.48	15.46	15.33	16.5	0
10	16QAM	25	25	15.41	15.43	15.25	16.5	0
10	16QAM	50	0	15.50	15.36	15.19	16.5	0
10	64QAM	1	0	15.50	15.47	15.56	16.5	0
10	64QAM	1	25	15.51	15.44	15.50	16.5	0
10	64QAM	25	0	15.45	15.51	15.49	16.5	0
10	64QAM	25	12	15.48	15.29	15.42	16.5	0
10	64QAM	25	25	15.50	15.51	15.28	16.5	0
10	64QAM	50	0	15.36	15.46	15.26	16.5	0
10	64QAM	50	0	15.39	15.41	15.30	16.5	0
Channel								
Frequency (MHz)								
5	QPSK	1	0	15.14	15.19	15.20	16.5	0
5	QPSK	1	12	15.48	15.28	15.41	16.5	0
5	QPSK	1	24	15.16	15.14	15.24	16.5	0
5	QPSK	12	0	15.31	15.24	15.42	16.5	0
5	QPSK	12	7	15.50	15.53	15.50	16.5	0
5	QPSK	12	13	15.43	15.45	15.35	16.5	0
5	QPSK	25	0	15.50	15.43	15.24	16.5	0
5	16QAM	1	0	15.51	15.45	15.54	16.5	0
5	16QAM	1	12	15.53	15.46	15.55	16.5	0
5	16QAM	1	24	15.59	15.45	15.51	16.5	0
5	16QAM	12	0	15.38	15.38	15.41	16.5	0
5	16QAM	12	7	15.39	15.47	15.31	16.5	0
5	16QAM	12	13	15.39	15.44	15.26	16.5	0
5	16QAM	25	0	15.21	15.38	15.18	16.5	0
5	64QAM	1	0	15.55	15.47	15.53	16.5	0
5	64QAM	1	12	15.53	15.45	15.45	16.5	0
5	64QAM	1	24	15.50	15.49	15.47	16.5	0
5	64QAM	12	0	15.50	15.27	15.43	16.5	0
5	64QAM	12	7	15.41	15.46	15.32	16.5	0
5	64QAM	12	13	15.32	15.44	15.28	16.5	0
5	64QAM	25	0	15.40	15.41	15.30	16.5	0
Channel								
Frequency (MHz)								
3	QPSK	1	0	15.12	15.22	15.19	16.5	0
3	QPSK	1	8	15.54	15.50	15.32	16.5	0
3	QPSK	1	16	15.24	15.08	15.06	16.5	0
3	QPSK	8	0	15.25	15.24	15.41	16.5	0
3	QPSK	8	4	15.50	15.57	15.50	16.5	0
3	QPSK	8	7	15.43	15.47	15.36	16.5	0
3	16QAM	1	0	15.40	15.51	15.31	16.5	0
3	16QAM	1	8	15.53	15.47	15.46	16.5	0
3	16QAM	1	16	15.51	15.49	15.58	16.5	0
3	16QAM	8	0	15.49	15.49	15.47	16.5	0
3	16QAM	8	4	15.38	15.36	15.34	16.5	0
3	16QAM	8	7	15.45	15.52	15.35	16.5	0
3	16QAM	8	15	15.42	15.50	15.20	16.5	0
3	16QAM	15	0	15.20	15.38	15.09	16.5	0
3	64QAM	1	0	15.46	15.53	15.49	16.5	0
3	64QAM	1	8	15.57	15.49	15.42	16.5	0
3	64QAM	1	16	15.45	15.54	15.45	16.5	0
3	64QAM	8	0	15.45	15.34	15.47	16.5	0
3	64QAM	8	4	15.47	15.48	15.32	16.5	0
3	64QAM	8	7	15.41	15.47	15.30	16.5	0
3	64QAM	15	0	15.43	15.41	15.30	16.5	0
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	17.07	17.23	17.43	16.5	0
1.4	QPSK	1	3	15.52	15.53	15.33	16.5	0
1.4	QPSK	1	5	15.28	15.09	15.00	16.5	0
1.4	QPSK	3	0	15.28	15.28	15.40	16.5	0
1.4	QPSK	3	1	15.50	15.54	15.56	16.5	0
1.4	QPSK	3	3	15.44	15.38	15.31	16.5	0
1.4	QPSK	6	0	15.47	15.44	15.24	16.5	0
1.4	16QAM	1	0	15.53	15.46	15.44	16.5	0
1.4	16QAM	1	3	15.47	15.51	15.52	16.5	0
1.4	16QAM	1	5	15.55	15.51	15.55	16.5	0
1.4	16QAM	3	0	15.45	15.41	15.36	16.5	0
1.4	16QAM	3	1	15.40	15.52	15.28	16.5	0
1.4	16QAM	3	3	15.40	15.41	15.30	16.5	0
1.4	16QAM	6	0	15.20	15.38	15.10	16.5	0
1.4	64QAM	1	0	15.56	15.52	15.52	16.5	0
1.4	64QAM	1	3	15.49	15.49	15.45	16.5	0
1.4	64QAM	1	5	15.46	15.50	15.50	16.5	0
1.4	64QAM	3	0	15.52	15.25	15.42	16.5	0
1.4	64QAM	3	1	15.45	15.47	15.36	16.5	0
1.4	64QAM	3	3	15.32	15.45	15.26	16.5	0
1.4	64QAM	6	0	15.42	15.41	15.32	16.5	0

Band 4_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.09	23.10	23.25	24	0
20	QPSK	1	49	23.10	23.11	23.31	24	0
20	QPSK	1	99	22.94	22.91	22.98	24	0
20	QPSK	50	0	22.27	22.30	22.21	23	1
20	QPSK	50	24	22.27	22.35	22.42	23	1
20	QPSK	50	50					



Band 5_Ant 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										
Frequency (MHz)										
10	QPSK	1	0	21.60	21.76	21.61	23	0		
10	QPSK	1	25	21.60	21.77	21.60				
10	QPSK	1	49	21.63	21.69	21.48				
10	QPSK	25	0	21.54	21.58	21.67				
10	QPSK	25	12	21.54	21.55	21.67				
10	QPSK	25	25	21.50	21.63	21.50				
10	QPSK	50	0	21.69	21.72	21.67				
10	16QAM	1	0	21.68	21.75	21.69				
10	16QAM	1	25	21.70	21.69	21.75				
10	16QAM	1	49	21.69	21.69	21.72				
10	16QAM	25	0	21.05	21.07	21.04	22.5	0.5		
10	16QAM	25	12	21.38	21.25	21.32				
10	16QAM	25	25	20.92	21.02	21.00				
10	16QAM	50	0	21.07	21.13	21.03				
10	64QAM	1	0	21.50	21.47	21.41				
10	64QAM	1	25	21.58	21.52	21.49				
10	64QAM	1	49	21.43	21.48	21.44				
10	64QAM	25	0	20.15	20.16	20.13				
10	64QAM	25	12	20.27	20.13	20.13				
10	64QAM	25	25	20.05	20.14	20.09				
10	64QAM	50	0	20.10	20.15	20.14	22.5	0.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.58	21.71	21.57			23	0
5	QPSK	1	12	21.58	21.65	21.53				
5	QPSK	1	24	21.53	21.64	21.38				
5	QPSK	12	0	21.47	21.54	21.63				
5	QPSK	12	7	21.46	21.65	21.61				
5	QPSK	12	13	21.46	21.53	21.43				
5	QPSK	25	0	21.57	21.65	21.62				
5	16QAM	1	0	21.65	21.69	21.63				
5	16QAM	1	12	21.62	21.63	21.67				
5	16QAM	1	24	21.66	21.66	21.60				
5	16QAM	12	0	20.98	20.98	20.98	22.5	0.5		
5	16QAM	12	7	21.26	21.16	21.21				
5	16QAM	12	13	20.82	20.95	20.98				
5	16QAM	25	0	21.01	21.00	20.98				
5	64QAM	1	0	21.48	21.43	21.34				
5	64QAM	1	12	21.56	21.47	21.38				
5	64QAM	1	24	21.51	21.45	21.41				
5	64QAM	12	0	20.06	20.14	20.09				
5	64QAM	12	7	20.20	20.19	20.10				
5	64QAM	12	13	20.01	20.05	20.03				
5	64QAM	25	0	20.05	20.12	20.10	21.5	1.5		
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.58	21.68	21.51			23	0
3	QPSK	1	8	21.60	21.65	21.55				
3	QPSK	1	14	21.61	21.57	21.37				
3	QPSK	8	0	21.44	21.53	21.55				
3	QPSK	8	4	21.57	21.64	21.38				
3	QPSK	8	7	21.45	21.52	21.43				
3	QPSK	15	0	21.63	21.70	21.62				
3	16QAM	1	0	21.58	21.73	21.57				
3	16QAM	1	8	21.65	21.64	21.72				
3	16QAM	1	14	21.61	21.64	21.67				
3	16QAM	8	0	20.94	20.99	20.94	22.5	0.5		
3	16QAM	8	4	21.25	21.15	21.28				
3	16QAM	8	7	20.82	20.95	20.90				
3	16QAM	15	0	21.00	21.09	20.95				
3	16QAM	15	0	21.47	21.45	21.37				
3	64QAM	1	8	21.54	21.47	21.38				
3	64QAM	1	14	21.57	21.41	21.34				
3	64QAM	8	0	20.12	20.09	20.05				
3	64QAM	8	4	20.15	20.26	20.04				
3	64QAM	8	7	20.01	20.08	20.07				
3	64QAM	15	0	19.98	20.06	20.05	22.5	0.5		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.58	21.69	21.57			23	0
1.4	QPSK	1	3	21.66	21.75	21.62				
1.4	QPSK	1	5	21.51	21.65	21.38				
1.4	QPSK	3	0	21.48	21.48	21.65				
1.4	QPSK	3	1	21.66	21.73	21.67				
1.4	QPSK	3	3	21.41	21.59	21.48				
1.4	QPSK	6	0	21.61	21.62	21.56				
1.4	16QAM	1	0	21.65	21.65	21.59				
1.4	16QAM	1	3	21.68	21.60	21.65				
1.4	16QAM	1	5	21.57	21.64	21.65				
1.4	16QAM	3	0	21.68	21.61	21.61				
1.4	16QAM	3	1	21.68	21.60	21.63				
1.4	16QAM	3	3	21.59	21.59	21.66				
1.4	16QAM	6	0	21.00	21.05	21.00	22.5	0.5		
1.4	16QAM	6	0	21.45	21.43	21.35				
1.4	64QAM	1	3	21.62	21.49	21.47				
1.4	64QAM	1	5	21.41	21.48	21.36				
1.4	64QAM	3	0	21.42	21.43	21.39				
1.4	64QAM	3	1	21.51	21.51	21.43				
1.4	64QAM	3	3	21.44	21.51	21.38				
1.4	64QAM	6	0	20.02	20.05	20.03				
1.4	64QAM	6	0	20.02	20.05	20.03				
1.4	64QAM	15	0	20.02	20.05	20.03				

Band 5_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.93	22.78	22.92	24	0		
10	QPSK	1	25	22.93	22.78	22.92				
10	QPSK	1	49	22.97	22.86	22.75				
10	QPSK	25	0	21.88	21.92	21.8				
10	QPSK	25	12	21.88	21.94	21.85				
10	QPSK	25	25	21.84	21.84	21.66				
10	QPSK	50	0	22.01	22.08	21.95				
10	16QAM	1	0	21.97	22.08	22.13				
10	16QAM	1	25	22.15	22.13	22.13				
10	16QAM	1	49	22.16	22.02	22.23				
10	16QAM	25	0	21.05	21.04	20.88	23	1		
10	16QAM	25	12	20.96	21.03	20.98				
10	16QAM	25	25	20.9	20.9	20.98				
10	16QAM	50	0	20.96	20.95	20.9				
10	64QAM	1	0	20.95	21.27	21.33				
10	64QAM	1	25	21.41	21.37	21.38				
10	64QAM	1	49	20.93	20.95	20.94				
10	64QAM	25	0	19.96	20.02	19.94				
10	64QAM	25	12	20.1	20.12	20.03				
10	64QAM	25	25	19.98	19.98	19.74				
10	64QAM	50	0	19.9	20.05	19.8	22	2		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.78	22.71	22.82			24	0
5	QPSK	1	12	22.98	22.86	22.81				
5	QPSK	1	24	22.84	22.80	22.75				
5	QPSK	12	0	21.81	21.88	21.77				
5	QPSK	12	7	21.87	22.00	21.80				
5	QPSK	12	13	21.93	21.81	21.60				
5	QPSK	25	0	21.90	21.96	21.82				
5	16QAM	1	0	21.83	22.05	22.05				
5	16QAM	1	12	22.01	22.08	22.02				
5	16QAM	1	24	22.03	21.98	22.06				
5	16QAM	12	0	20.91	20.90	20.74	23	1		
5	16QAM	12	7	20.88	20.89	20.92				
5	16QAM	12	13	20.80	20.80	20.67				
5	16QAM	25	0	20.95	20.93	20.79				
5	64QAM	1	0	20.95	21.19	21.30				
5	64QAM	1	12	21.27	21.34	21.07				
5	64QAM	1	24	20.93	20.92	20.81				
5	64QAM	12	0	19.82	19.82	19.85				
5	64QAM	12	7	19.95	20.04	19.86				
5	64QAM	12	13	19.98	19.92	19.82				
5	64QAM	25	0	19.81	19.88	19.69	21	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.85	22.73	22.85			24	0
3	QPSK	1	8	22.90	22.97	22.89				
3	QPSK	1	14	22.88	22.78	22.60				
3	QPSK	8	0	21.77	21.80	21.67				
3	QPSK	8	4	21.99	22.10	21.79				
3	QPSK	8	7	21.91	21.83	21.65				
3	QPSK	15	0	21.86	22.04	21.80				
3	16QAM	1	0	21.84	22.05	22.04				
3	16QAM	1	8	22.08	22.15	22.08				
3	16QAM	1	14	22.15	21.88	22.15				
3	16QAM	8	0	21.04	20.99	20.74	22	2		
3	16QAM	8	4	20.89	20.93	20.63				
3	16QAM	8	7	20.74	20.78	20.59				
3	16QAM	15	0	20.88	20.85	20.68				
3	16QAM	15	0	20.95	21.29	21.29				
3	64QAM	1	8	21.41	21.33	21.04				
3	64QAM	1	14	20.91	20.93	20.89				
3	64QAM	8	0	19.89	20.00	19.85				
3	64QAM	8	4	20.01	20.08	19.93				
3	64QAM	8	7	19.90	19.85	19.73				
3	64QAM	15	0	19.89	20.01	19.80	23	1		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.92	22.88	22.88			24	0
1.4	QPSK	1	3	22.93	23.05	22.84				
1.4	QPSK	1	5	22.87	22.74	22.65				
1.4	QPSK	3	0	22.85	22.75	22.75				
1.4	QPSK	3	1	22.85	22.82	22.72				
1.4	QPSK	3	3	22.82	22.84	22.73				
1.4	QPSK	6								



Band 7_Ant 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								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	12.66	12.67	12.51	13.5	0
20	QPSK	1	49	12.66	12.67	12.51		
20	QPSK	1	99	12.74	12.81	12.85		
20	QPSK	50	0	12.80	12.85	12.86		
20	QPSK	50	24	12.80	12.85	12.84		
20	QPSK	50	50	12.81	12.82	12.87	13.5	0
20	QPSK	100	0	12.85	12.86	12.75		
20	16QAM	1	0	12.81	12.89	12.87		
20	16QAM	1	49	12.88	12.82	12.86	13.5	0
20	16QAM	1	99	12.81	12.82	12.89		
20	16QAM	50	0	12.81	12.83	12.84		
20	16QAM	50	24	12.81	12.88	12.83	13.5	0
20	16QAM	50	50	12.84	12.72	12.85		
20	16QAM	100	0	12.81	12.83	12.72		
20	64QAM	1	0	12.83	12.69	12.82		
20	64QAM	1	49	12.88	12.87	12.82	13.5	0
20	64QAM	1	99	12.88	12.81	12.85		
20	64QAM	50	0	12.85	12.83	12.88		
20	64QAM	50	24	12.84	12.80	12.87		
20	64QAM	50	50	12.80	12.80	12.84	13.5	0
20	64QAM	100	0	12.81	12.84	12.76		
Channel				21100	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2597.5	2597.5	2625		
15	QPSK	1	0	12.58	12.57	12.42	13.5	0
15	QPSK	1	49	12.78	12.88	12.78		
15	QPSK	1	74	12.78	12.79	12.55		
15	QPSK	36	0	12.70	12.76	12.84		
15	QPSK	36	20	12.77	12.78	12.78	13.5	0
15	QPSK	36	39	12.79	12.78	12.52		
15	QPSK	75	0	12.78	12.80	12.83		
15	16QAM	1	0	12.75	12.84	12.75	13.5	0
15	16QAM	1	37	12.78	12.72	12.82		
15	16QAM	1	74	12.74	12.81	12.84		
15	16QAM	36	0	12.68	12.78	12.53		
15	16QAM	36	20	12.79	12.83	12.72	13.5	0
15	16QAM	36	39	12.73	12.68	12.73		
15	16QAM	75	0	12.75	12.80	12.68		
15	64QAM	1	0	12.75	12.67	12.72	13.5	0
15	64QAM	1	37	12.84	12.75	12.77		
15	64QAM	1	74	12.80	12.77	12.57		
15	64QAM	36	0	12.81	12.81	12.61		
15	64QAM	36	20	12.81	12.72	12.81	13.5	0
15	64QAM	36	39	12.72	12.74	12.73		
15	64QAM	75	0	12.72	12.76	12.70		
Channel				20300	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2655	2655	2655		
10	QPSK	1	0	12.64	12.55	12.41	13.5	0
10	QPSK	1	25	12.82	12.87	12.74		
10	QPSK	1	49	12.70	12.71	12.57		
10	QPSK	25	0	12.72	12.80	12.59		
10	QPSK	25	12	12.75	12.78	12.80	13.5	0
10	QPSK	25	25	12.73	12.78	12.81		
10	QPSK	50	0	12.77	12.80	12.88		
10	16QAM	1	0	12.75	12.80	12.85	13.5	0
10	16QAM	1	25	12.78	12.71	12.84		
10	16QAM	1	49	12.72	12.55	12.66		
10	16QAM	25	0	12.75	12.71	12.92	13.5	0
10	16QAM	25	12	12.72	12.86	12.73		
10	16QAM	25	25	12.75	12.69	12.80		
10	16QAM	50	0	12.74	12.81	12.94		
10	64QAM	1	0	12.72	12.84	12.94	13.5	0
10	64QAM	1	25	12.83	12.83	12.70		
10	64QAM	1	49	12.80	12.73	12.82		
10	64QAM	25	0	12.79	12.72	12.85		
10	64QAM	25	12	12.74	12.74	12.79	13.5	0
10	64QAM	25	25	12.68	12.71	12.75		
10	64QAM	50	0	12.75	12.73	12.69		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2659.5	2659.5	2659.5		
5	QPSK	1	0	12.62	12.62	12.44	13.5	0
5	QPSK	1	12	12.80	12.80	12.81		
5	QPSK	1	24	12.70	12.72	12.63		
5	QPSK	12	0	12.72	12.83	12.84		
5	QPSK	12	7	12.84	12.79	12.77	13.5	0
5	QPSK	12	13	12.73	12.74	12.58		
5	QPSK	25	0	12.75	12.84	12.85		
5	16QAM	1	0	12.70	12.84	12.78	13.5	0
5	16QAM	1	12	12.78	12.78	12.75		
5	16QAM	1	24	12.71	12.50	12.57		
5	16QAM	12	0	12.74	12.80	12.56	13.5	0
5	16QAM	12	7	12.68	12.85	12.77		
5	16QAM	12	13	12.72	12.67	12.78		
5	16QAM	25	0	12.69	12.80	12.69		
5	64QAM	1	0	12.78	12.67	12.72	13.5	0
5	64QAM	1	12	12.77	12.81	12.72		
5	64QAM	1	24	12.76	12.74	12.74		
5	64QAM	12	0	12.80	12.74	12.64		
5	64QAM	12	7	12.75	12.70	12.81	13.5	0
5	64QAM	12	13	12.70	12.68	12.78		
5	64QAM	25	0	12.72	12.81	12.64		

Band 7_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.10	23.07	23.02	24	0
20	QPSK	1	49	23.13	23.15	23.11		
20	QPSK	1	99	23.11	23.11	23.07		
20	QPSK	50	0	21.92	22.05	21.88		
20	QPSK	50	24	21.92	22.11	22.01	23	1
20	QPSK	50	50	22.03	22.05	22.00		
20	QPSK	100	0	22.02	22.09	22.08		
20	16QAM	1	0	22.15	22.46	22.49		
20	16QAM	1	49	22.39	22.47	22.27	23	1
20	16QAM	1	99	22.22	22.34	22.16		
20	16QAM	50	0	21.20	21.38	21.17		
20	16QAM	50	24	21.35	21.48	21.38		
20	16QAM	50	50	21.32	21.39	21.11	22	2
20	16QAM	100	0	21.18	21.41	21.30		
20	64QAM	1	0	21.46	21.27	21.27		
20	64QAM	1	49	21.13	21.39	21.11	22	2
20	64QAM	1	99	21.50	21.37	21.27		
20	64QAM	50	0	20.26	20.30	20.18		
20	64QAM	50	24	20.31	20.40	20.25		
20	64QAM	50	50	20.35	20.36	20.15	21	3
20	64QAM	100	0	20.28	20.43	20.13		
Channel				21100	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2597.5	2597.5	2625		
15	QPSK	1	0	23.08	23.02	22.90	24	0
15	QPSK	1	37	23.09	23.08	23.08		
15	QPSK	1	74	22.99	23.08	23.01		
15	QPSK	36	0	21.87	21.99	21.83		
15	QPSK	36	20	21.85	21.86	21.86	23	1
15	QPSK	36	39	21.91	21.97	21.88		
15	QPSK	75	0	21.80	22.07	21.99		
15	16QAM	1	0	22.07	22.40	22.47		
15	16QAM	1	37	22.36	22.40	22.15	23	1
15	16QAM	1	74	22.11	22.32	22.11		
15	16QAM	36	0	21.08	21.31	21.15		
15	16QAM	36	20	21.31	21.45	21.28	22	2
15	16QAM	36	39	21.30	21.31	21.04		
15	16QAM	75	0	21.09	21.30	21.07		
15	64QAM	1	0	21.41	21.25	21.24		
15	64QAM	1	37	21.02	21.29	21.04	22	2
15	64QAM	1	74	21.47	21.34	21.21		
15	64QAM	36	0	20.22	20.25	20.11		
15	64QAM	36	20	20.21	20.31	20.18		
15	64QAM	36	39	20.24	20.28	20.14	21	3
15	64QAM	75	0	20.22	20.31	20.09		
Channel				20300	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2655	2655	2655		
10	QPSK	1	0	23.00	22.99	22.91	24	0
10	QPSK	1	25	23.05	23.05	23.04		
10	QPSK	1	49	23.06	23.00	22.89		
10	QPSK	25	0	21.86	21.97	21.82		
10	QPSK	25	12	21.84	22.09	21.84	23	1
10	QPSK	25	25	21.91	21.93	21.92		



Band 12_Ant 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								
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.80	22.72	22.84	24	0
10	QPSK	1	25	22.80	22.80	22.80		
10	QPSK	1	49	22.83	22.85	22.89		
10	QPSK	25	0	21.86	21.83	21.80		
10	QPSK	25	12	21.86	21.88	21.90		
10	QPSK	25	25	21.80	21.87	21.83	23	1
10	QPSK	50	0	21.79	21.88	21.95		
10	16QAM	1	0	21.74	22.07	22.08		
10	16QAM	1	25	22.11	22.11	22.57	23	1
10	16QAM	1	49	22.92	22.93	22.12		
10	16QAM	25	0	20.72	20.98	20.84		
10	16QAM	25	12	21.00	20.92	20.94		
10	16QAM	25	25	20.96	20.92	20.79	22	2
10	16QAM	50	0	20.84	20.88	20.90		
10	16QAM	50	0	20.86	21.22	21.22		
10	64QAM	1	25	21.37	21.40	21.35	22	2
10	64QAM	1	49	21.33	21.14	20.96		
10	64QAM	25	0	19.82	19.93	19.86		
10	64QAM	25	12	20.10	20.06	19.99		
10	64QAM	25	25	19.99	19.94	19.94	21	3
10	64QAM	50	0	19.95	19.94	20.00		
Channel								
Frequency (MHz)				2305	2306	2310	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.73	22.64	22.76	24	0
5	QPSK	1	12	22.83	22.86	22.87		
5	QPSK	1	24	22.89	22.71	22.87		
5	QPSK	12	0	21.54	21.74	21.65		
5	QPSK	12	7	21.86	21.74	21.88		
5	QPSK	12	13	21.69	21.84	21.73	23	1
5	QPSK	25	0	21.71	21.98	21.85		
5	16QAM	1	0	21.73	22.02	21.99		
5	16QAM	1	12	21.97	22.06	22.45	23	1
5	16QAM	1	24	22.41	22.41	22.97		
5	16QAM	12	0	20.68	20.83	20.83		
5	16QAM	12	7	20.91	20.92	20.79	22	2
5	16QAM	12	13	20.90	20.92	20.86		
5	16QAM	25	0	20.81	20.78	20.83		
5	64QAM	1	0	20.84	21.10	21.12		
5	64QAM	1	12	21.28	21.27	21.33	22	2
5	64QAM	1	24	21.51	21.09	20.95		
5	64QAM	12	0	19.82	19.80	19.84		
5	64QAM	12	7	19.97	19.96	19.88		
5	64QAM	12	13	19.97	19.89	19.80	21	3
5	64QAM	25	0	19.83	19.89	19.85		
Channel								
Frequency (MHz)				2302.5	2309.5	2316.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				705.5	707.5	714.5		
3	QPSK	1	0	22.77	22.62	22.78	24	0
3	QPSK	1	8	22.91	22.96	22.78		
3	QPSK	1	14	22.78	22.75	22.89		
3	QPSK	8	0	21.83	21.80	21.74		
3	QPSK	8	4	21.85	21.75	21.75	23	1
3	QPSK	8	7	21.97	21.82	21.74		
3	QPSK	15	0	21.78	21.85	21.90		
3	16QAM	1	0	21.70	22.28	22.94		
3	16QAM	1	8	21.98	22.06	22.54	23	1
3	16QAM	1	14	22.46	22.38	22.08		
3	16QAM	8	0	20.87	20.80	20.72		
3	16QAM	8	4	20.87	20.81	20.90	22	2
3	16QAM	8	7	20.84	20.88	20.79		
3	16QAM	15	0	20.82	20.82	20.90		
3	64QAM	1	0	20.90	21.16	21.13		
3	64QAM	1	8	21.37	21.30	21.23	22	2
3	64QAM	1	14	21.33	21.02	20.84		
3	64QAM	8	0	19.87	19.88	19.83		
3	64QAM	8	4	20.04	19.94	19.85	21	3
3	64QAM	8	7	19.96	19.89	19.84		
3	64QAM	15	0	19.88	19.93	19.90		
Channel								
Frequency (MHz)				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				697.5	707.5	715.5		
1.4	QPSK	1	0	22.70	22.74	22.81	24	0
1.4	QPSK	1	3	22.80	22.81	22.85		
1.4	QPSK	1	5	22.80	22.65	22.72		
1.4	QPSK	3	0	22.79	22.82	22.71		
1.4	QPSK	3	1	22.69	22.83	22.74		
1.4	QPSK	3	3	22.81	22.82	22.70		
1.4	QPSK	6	0	21.82	21.87	21.85	23	1
1.4	16QAM	1	0	22.27	21.89	21.92		
1.4	16QAM	1	3	22.19	22.18	21.95		
1.4	16QAM	1	5	21.84	21.97	21.87	23	1
1.4	16QAM	3	0	21.70	21.77	21.78		
1.4	16QAM	3	1	21.83	21.83	21.91		
1.4	16QAM	3	3	21.84	21.73	21.92		
1.4	16QAM	6	0	21.07	21.05	20.99	22	2
1.4	64QAM	1	0	21.25	21.03	20.85		
1.4	64QAM	1	3	21.24	20.89	20.94		
1.4	64QAM	1	5	20.90	21.05	21.19	22	2
1.4	64QAM	3	0	20.95	21.23	21.24		
1.4	64QAM	3	1	21.10	20.76	21.13		
1.4	64QAM	3	3	21.07	21.12	20.99	21	3
1.4	64QAM	6	0	19.95	19.95	19.94		

Band 12_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.71	22.81	22.85	24	0
10	QPSK	1	25	22.80	22.82	22.82		
10	QPSK	1	49	22.83	22.82	22.82		
10	QPSK	25	0	21.53	21.85	21.84		
10	QPSK	25	12	21.74	21.83	21.83	23	1
10	QPSK	25	25	21.73	21.88	21.68		
10	QPSK	50	0	21.86	21.75	21.73		
10	16QAM	1	0	22.08	22.17	22.04		
10	16QAM	1	25	22.34	22.42	22.01	23	1
10	16QAM	1	49	22.04	22.29	22.07		
10	16QAM	25	0	20.70	20.88	20.82		
10	16QAM	25	12	20.86	20.85	20.79		
10	16QAM	25	25	20.94	20.84	20.77	22	2
10	16QAM	50	0	20.71	20.83	20.78		
10	64QAM	1	0	20.92	21.00	21.09		
10	64QAM	1	25	21.06	20.91	20.91	22	2
10	64QAM	1	49	20.93	20.84	20.84		
10	64QAM	25	0	19.88	19.79	19.75		
10	64QAM	25	12	19.91	19.80	19.81	21	3
10	64QAM	25	25	19.88	19.85	19.93		
10	64QAM	50	0	19.74	19.80	19.86		
Channel								
Frequency (MHz)				2305	2305	2310	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.57	22.80	22.56	24	0
5	QPSK	1	12	22.76	22.83	22.81		
5	QPSK	1	24	22.73	22.81	22.71		
5	QPSK	12	0	21.42	21.84	21.84		
5	QPSK	12	7	21.80	21.88	21.78		
5	QPSK	12	13	21.71	21.83	21.51	23	1
5	QPSK	25	0	21.53	21.72	21.71		
5	16QAM	1	0	21.96	22.05	22.06		
5	16QAM	1	12	22.44	22.41	21.95	23	1
5	16QAM	1	24	21.95	22.23	22.06		
5	16QAM	12	0	20.81	20.81	20.85		
5	16QAM	12	7	20.76	20.73	20.74	22	2
5	16QAM	12	13	20.75	20.78	20.72		
5	16QAM	25	0	20.57	20.77	20.81		
5	64QAM	1	0	20.81	20.80	21.02		
5	64QAM	1	12	20.92	20.84	20.77	22	2
5	64QAM	1	24	20.98	20.78	20.79		
5	64QAM	12	0	19.70	19.69	19.70		
5	64QAM	12	7	19.77	19.81	19.78	21	3
5	64QAM	12	13	19.79	19.80	19.80		
5	64QAM	25	0	19.74	19.71	19.73		
Channel								
Frequency (MHz)				2302.5	2309.5	2316.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				705.5	707.5	714.5		
3	QPSK	1	0	22.69	22.62	22.82	24	0
3	QPSK	1	8	22.85	22.87	22.85		
3	QPSK	1	14	22.81	22.78	22.77		
3	QPSK	8	0	21.41	21.83	21.58		
3	QPSK	8	4	21.88	21.72	21.88	23	1
3	QPSK	8	7	21.81	21.68	21.81		
3	QPSK							



Band 13_Ant 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 23200								
Frequency (MHz)								
10	QPSK	1	0	23.01	23.01	23.01	24	0
10	QPSK	1	25	22.83	22.83	22.83		
10	QPSK	1	49	22.98	22.98	22.98		
10	QPSK	25	0	21.80	21.80	21.80	23	1
10	QPSK	25	12	21.53	21.53	21.53		
10	QPSK	25	25	21.89	21.89	21.89		
10	QPSK	50	0	21.55	21.55	21.55	23	1
10	16QAM	1	0	22.25	22.25	22.25		
10	16QAM	1	25	22.37	22.37	22.37		
10	16QAM	1	49	22.43	22.43	22.43	22	2
10	16QAM	25	0	20.98	20.98	20.98		
10	16QAM	25	12	21.15	21.15	21.15		
10	16QAM	25	25	20.98	20.98	20.98	22	2
10	16QAM	50	0	20.98	20.98	20.98		
10	64QAM	1	0	21.15	21.15	21.15		
10	64QAM	1	25	21.08	21.08	21.08	22	2
10	64QAM	1	49	21.32	21.32	21.32		
10	64QAM	25	0	19.90	19.90	19.90		
10	64QAM	25	12	20.03	20.03	20.03	21	3
10	64QAM	25	25	19.84	19.84	19.84		
10	64QAM	50	0	19.85	19.85	19.85		
Channel 23250								
Frequency (MHz)								
5	QPSK	1	0	22.99	22.96	22.96	24	0
5	QPSK	1	12	22.86	22.82	22.83		
5	QPSK	1	24	22.97	22.83	22.96		
5	QPSK	12	0	21.79	21.72	21.78	23	1
5	QPSK	12	7	21.96	21.97	21.88		
5	QPSK	12	13	21.84	21.76	21.89		
5	QPSK	25	0	21.88	21.77	21.84	23	1
5	16QAM	1	0	22.21	22.20	22.12		
5	16QAM	1	12	22.37	22.29	22.27		
5	16QAM	1	24	22.32	22.28	22.37	22	2
5	16QAM	12	0	20.72	20.84	20.73		
5	16QAM	12	7	21.01	21.11	21.10		
5	16QAM	12	13	20.88	20.83	20.88	22	2
5	16QAM	25	0	20.89	20.86	20.85		
5	64QAM	1	0	21.00	21.10	21.07		
5	64QAM	1	12	21.06	21.04	21.06	22	2
5	64QAM	1	24	21.22	21.18	21.24		
5	64QAM	12	0	19.90	19.82	19.89		
5	64QAM	12	7	20.02	19.97	20.02	21	3
5	64QAM	12	13	19.81	19.85	19.84		
5	64QAM	25	0	19.80	19.80	19.75		

Band 13_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel 23200								
Frequency (MHz)								
10	QPSK	1	0	22.83	22.83	22.83	24	0
10	QPSK	1	25	22.88	22.88	22.88		
10	QPSK	1	49	22.85	22.85	22.85		
10	QPSK	25	0	21.67	21.67	21.67	23	1
10	QPSK	25	12	21.07	21.07	21.07		
10	QPSK	25	25	21.74	21.74	21.74		
10	QPSK	50	0	21.76	21.76	21.76	23	1
10	16QAM	1	0	21.88	21.88	21.88		
10	16QAM	1	25	22.01	22.01	22.01		
10	16QAM	1	49	21.95	21.95	21.95	22	2
10	16QAM	25	0	20.75	20.75	20.75		
10	16QAM	25	12	20.79	20.79	20.79		
10	16QAM	25	25	20.68	20.68	20.68	22	2
10	16QAM	50	0	20.78	20.78	20.78		
10	64QAM	1	0	21.06	21.06	21.06		
10	64QAM	1	25	21.16	21.16	21.16	22	2
10	64QAM	1	49	20.84	20.84	20.84		
10	64QAM	25	0	19.85	19.85	19.85		
10	64QAM	25	12	19.98	19.98	19.98	21	3
10	64QAM	25	25	19.73	19.73	19.73		
10	64QAM	50	0	19.76	19.76	19.76		
Channel 23250								
Frequency (MHz)								
5	QPSK	1	0	22.82	22.73	22.83	24	0
5	QPSK	1	12	22.81	22.85	22.74		
5	QPSK	1	24	22.72	22.80	22.79		
5	QPSK	12	0	21.53	21.61	21.60	23	1
5	QPSK	12	7	21.85	21.87	21.85		
5	QPSK	12	13	21.05	21.73	21.67		
5	QPSK	25	0	21.75	21.65	21.62	23	1
5	16QAM	1	0	21.93	21.85	21.88		
5	16QAM	1	12	21.94	21.87	21.91		
5	16QAM	1	24	21.91	21.89	21.89	22	2
5	16QAM	12	0	20.70	20.66	20.69		
5	16QAM	12	7	20.64	20.66	20.76		
5	16QAM	12	13	20.57	20.67	20.58	22	2
5	16QAM	25	0	20.77	20.75	20.76		
5	64QAM	1	0	21.04	21.02	21.05		
5	64QAM	1	12	21.16	21.16	21.16	22	2
5	64QAM	1	24	20.85	20.81	20.82		
5	64QAM	12	0	19.70	19.71	19.79		
5	64QAM	12	7	19.85	19.74	19.75	21	3
5	64QAM	12	13	19.72	19.69	19.64		
5	64QAM	25	0	19.67	19.66	19.75		



Band 17_Ant 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								
Frequency (MHz)				2370	2390	2400		
10	QPSK	1	0	22.73	22.85	22.86	24	0
10	QPSK	1	25	22.53	22.55	22.54		
10	QPSK	1	49	22.86	22.86	22.93		
10	QPSK	25	0	21.80	21.77	21.72	23	1
10	QPSK	25	12	21.33	21.50	21.53		
10	QPSK	25	25	21.81	21.84	21.75		
10	QPSK	50	0	21.81	21.88	21.78	23	1
10	16QAM	1	0	22.08	22.04	22.35		
10	16QAM	1	25	22.49	22.05	22.05		
10	16QAM	1	49	22.35	22.05	22.23	22	2
10	16QAM	25	0	20.86	20.82	20.77		
10	16QAM	25	12	20.88	20.94	20.87		
10	16QAM	25	25	21.00	20.84	20.84	22	2
10	16QAM	50	0	20.81	20.83	20.83		
10	64QAM	1	0	21.19	21.18	21.14		
10	64QAM	1	25	21.39	21.27	21.21	22	2
10	64QAM	1	49	21.12	21.16	21.09		
10	64QAM	25	0	19.94	19.88	19.89		
10	64QAM	25	12	20.00	19.82	19.98	21	3
10	64QAM	25	25	19.95	19.88	19.78		
10	64QAM	50	0	19.86	19.88	19.83		
Channel								
Frequency (MHz)				2370	2390	2400	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.58	22.72	22.89	24	0
5	QPSK	1	12	22.87	22.88	22.88		
5	QPSK	1	24	22.74	22.78	22.85		
5	QPSK	12	0	21.74	21.7	21.67	23	1
5	QPSK	12	7	21.75	21.78	21.8		
5	QPSK	12	13	21.69	21.81	21.73		
5	QPSK	25	0	21.76	21.82	21.65	23	1
5	16QAM	1	0	22.04	22.01	22.28		
5	16QAM	1	12	22.48	22.05	22.1		
5	16QAM	1	24	22.22	22.03	22.14	22	2
5	16QAM	12	0	20.76	20.69	20.74		
5	16QAM	12	7	20.79	20.93	20.73		
5	16QAM	12	13	20.91	20.72	20.82	22	2
5	16QAM	25	0	20.76	20.69	20.69		
5	16QAM	25	0	20.76	20.69	20.69		
5	64QAM	1	0	21.11	21.09	21.09	22	2
5	64QAM	1	12	21.32	21.18	21.07		
5	64QAM	1	24	21.06	21.12	21.06		
5	64QAM	12	0	19.87	19.73	19.76	21	3
5	64QAM	12	7	19.98	19.86	19.84		
5	64QAM	12	13	19.8	19.77	19.71		
5	64QAM	25	0	19.71	19.75	19.79		

Band 17_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2370	2390	2400		
10	QPSK	1	0	22.69	22.72	22.62	24	0
10	QPSK	1	25	22.61	22.68	22.62		
10	QPSK	1	49	22.72	22.70	22.75		
10	QPSK	25	0	21.84	21.73	21.59	23	1
10	QPSK	25	12	21.13	21.18	21.17		
10	QPSK	25	25	21.89	21.74	21.64		
10	QPSK	50	0	21.70	21.72	21.66	23	1
10	16QAM	1	0	21.80	22.07	22.15		
10	16QAM	1	25	21.76	22.04	21.89		
10	16QAM	1	49	22.10	22.09	21.91	22	2
10	16QAM	25	0	20.78	20.73	20.73		
10	16QAM	25	12	20.79	20.79	20.76		
10	16QAM	25	25	20.79	20.72	20.71	22	2
10	16QAM	50	0	20.81	20.78	20.71		
10	64QAM	1	0	20.92	20.73	21.10		
10	64QAM	1	25	20.91	21.18	20.96	22	2
10	64QAM	1	49	20.79	20.93	21.08		
10	64QAM	25	0	19.76	19.80	19.76		
10	64QAM	25	12	19.89	19.89	19.89	21	3
10	64QAM	25	25	19.87	19.83	19.67		
10	64QAM	50	0	19.89	19.79	19.69		
Channel								
Frequency (MHz)				2370	2390	2400	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.84	22.82	22.80	24	0
5	QPSK	1	12	22.71	22.80	22.79		
5	QPSK	1	24	22.57	22.81	22.68		
5	QPSK	12	0	21.60	21.71	21.45	23	1
5	QPSK	12	7	21.59	21.72	21.64		
5	QPSK	12	13	21.62	21.69	21.62		
5	QPSK	25	0	21.66	21.69	21.53	23	1
5	16QAM	1	0	21.69	22.03	22.13		
5	16QAM	1	12	21.64	21.94	21.81		
5	16QAM	1	24	22.03	22.07	21.88	22	2
5	16QAM	12	0	20.65	20.70	20.65		
5	16QAM	12	7	20.75	20.74	20.72		
5	16QAM	12	13	20.85	20.69	20.68	22	2
5	16QAM	25	0	20.73	20.77	20.65		
5	64QAM	1	0	20.80	20.81	21.09		
5	64QAM	1	12	20.84	21.08	20.92	22	2
5	64QAM	1	24	20.84	21.08	21.05		
5	64QAM	12	0	19.72	19.78	19.65		
5	64QAM	12	7	19.93	19.78	19.78	21	3
5	64QAM	12	13	19.73	19.68	19.60		
5	64QAM	25	0	19.79	19.66	19.61		



Band 18_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	2148	2148	2148	23	0
15	QPSK	1	37	2133	2133	2133		
15	QPSK	1	74	2119	2119	2119		
15	QPSK	36	0	2159	2159	2159	23	0
15	QPSK	36	20	2170	2170	2170		
15	QPSK	36	39	2185	2185	2185		
15	QPSK	75	0	2156	2156	2156	23	0
15	16QAM	1	0	2110	2110	2110		
15	16QAM	1	37	2186	2186	2186		
15	16QAM	1	74	2156	2156	2156	22.5	0.5
15	16QAM	36	0	2116	2116	2116		
15	16QAM	36	20	2135	2135	2135		
15	16QAM	36	39	2121	2121	2121	22.5	0.5
15	16QAM	75	0	2122	2122	2122		
15	16QAM	1	0	2135	2135	2135		
15	64QAM	1	37	2119	2119	2119	21.5	1.5
15	64QAM	1	74	2098	2098	2098		
15	64QAM	36	0	2033	2033	2033		
15	64QAM	36	20	2021	2021	2021	21.5	1.5
15	64QAM	36	39	2004	2004	2004		
15	64QAM	75	0	2012	2012	2012		
Channel								
Frequency (MHz)								
10	QPSK	1	0	2139	2139	2139	23	0
10	QPSK	1	25	2161	2161	2161		
10	QPSK	1	49	2138	2137	2142		
10	QPSK	25	0	2156	2155	2153	23	0
10	QPSK	25	12	2166	2161	2168		
10	QPSK	25	25	2162	2163	2155		
10	QPSK	50	0	2159	2161	2156	23	0
10	16QAM	1	0	2167	2164	2161		
10	16QAM	1	25	2157	2161	2155		
10	16QAM	1	49	2153	2145	2146	22.5	0.5
10	16QAM	25	0	2105	2112	2104		
10	16QAM	25	12	2113	2108	2113		
10	16QAM	25	25	2110	2116	2115	22.5	0.5
10	16QAM	50	0	2115	2117	2110		
10	64QAM	1	0	2105	2108	2110		
10	64QAM	1	25	2115	2114	2107	21.5	1.5
10	64QAM	1	49	2096	2094	2095		
10	64QAM	25	0	2028	2027	2022		
10	64QAM	25	12	2014	2016	2013	21.5	1.5
10	64QAM	25	25	2015	2013	2015		
10	64QAM	50	0	2002	2004	2003		
Channel								
Frequency (MHz)								
5	QPSK	1	0	2142	2140	2146	23	0
5	QPSK	1	12	2165	2169	2168		
5	QPSK	1	24	2143	2143	2143		
5	QPSK	12	0	2148	2148	2153	23	0
5	QPSK	12	7	2159	2165	2166		
5	QPSK	12	13	2160	2160	2158		
5	QPSK	25	0	2156	2162	2154	23	0
5	16QAM	1	0	2165	2168	2167		
5	16QAM	1	12	2156	2160	2152		
5	16QAM	1	24	2145	2152	2150	22.5	0.5
5	16QAM	12	0	2112	2111	2106		
5	16QAM	12	7	2113	2107	2112		
5	16QAM	12	13	2118	2119	2119	22.5	0.5
5	16QAM	25	0	2113	2120	2118		
5	64QAM	1	0	2110	2113	2110		
5	64QAM	1	12	2114	2108	2114	22.5	0.5
5	64QAM	1	24	2093	2096	2093		
5	64QAM	12	0	2026	2028	2031		
5	64QAM	12	7	2019	2018	2010	21.5	1.5
5	64QAM	12	13	2020	2020	2018		
5	64QAM	25	0	2010	2004	2003		

Band 18_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	2276	2276	2276	24	0
15	QPSK	1	37	2253	2253	2253		
15	QPSK	1	74	2229	2229	2229		
15	QPSK	36	0	2188	2188	2188	23	1
15	QPSK	36	20	2196	2196	2196		
15	QPSK	36	39	2188	2188	2188		
15	QPSK	75	0	2181	2181	2181	23	1
15	16QAM	1	0	2212	2212	2212		
15	16QAM	1	37	2250	2250	2250		
15	16QAM	1	74	2206	2206	2206	22	2
15	16QAM	36	0	2094	2094	2094		
15	16QAM	36	20	2099	2099	2099		
15	16QAM	36	39	2101	2101	2101	22	2
15	16QAM	75	0	2095	2095	2095		
15	64QAM	1	0	2095	2095	2095		
15	64QAM	1	37	2133	2133	2133	22	2
15	64QAM	1	74	2121	2121	2121		
15	64QAM	36	0	1993	1993	1993		
15	64QAM	36	20	1997	1997	1997	21	3
15	64QAM	36	39	1999	1999	1999		
15	64QAM	75	0	1993	1993	1993		
Channel								
Frequency (MHz)								
10	QPSK	1	0	2281	2284	2274	24	0
10	QPSK	1	25	2283	2287	2285		
10	QPSK	1	49	2275	2284	2281		
10	QPSK	25	0	2184	2181	2186	23	1
10	QPSK	25	12	2187	2186	2183		
10	QPSK	25	25	2178	2173	2175		
10	QPSK	50	0	2177	2182	2188	23	1
10	16QAM	1	0	2209	2205	2212		
10	16QAM	1	25	2244	2240	2248		
10	16QAM	1	49	2203	2199	2204	22	2
10	16QAM	25	0	2092	2089	2089		
10	16QAM	25	12	2094	2087	2099		
10	16QAM	25	25	2101	2095	2101	22	2
10	16QAM	50	0	2081	2094	2081		
10	64QAM	1	0	2105	2100	2105		
10	64QAM	1	25	2127	2132	2129	21	3
10	64QAM	1	49	2117	2132	2111		
10	64QAM	25	0	1988	1986	1980		
10	64QAM	25	12	1990	1988	1992	21	3
10	64QAM	25	25	1984	1988	1984		
10	64QAM	50	0	1987	1986	1992		
Channel								
Frequency (MHz)								
5	QPSK	1	0	2262	2265	2265	24	0
5	QPSK	1	12	2286	2284	2285		
5	QPSK	1	24	2273	2274	2283		
5	QPSK	12	0	2187	2187	2181	23	1
5	QPSK	12	7	2193	2181	2184		
5	QPSK	12	13	2174	2185	2175		
5	QPSK	25	0	2182	2181	2190	23	1
5	16QAM	1	0	2199	2204	2200		
5	16QAM	1	12	2235	2246	2236		
5	16QAM	1	24	2203	2202	2196	22	2
5	16QAM	12	0	2081	2093	2094		
5	16QAM	12	7	2092	2093	2084		
5	16QAM	12	13	2095	2095	2085	22	2
5	16QAM	25	0	2092	2085	2087		
5	64QAM	1	0	2085	2092	2085		
5	64QAM	1	12	2123	2121	2124	22	2
5	64QAM	1	24	2116	2113	2108		
5	64QAM	12	0	1985	1990	1986		
5	64QAM	12	7	1982	1987	1993	21	3
5	64QAM	12	13	1991	1987	1988		
5	64QAM	25	0	1983	1987	1988		



Band 19_Ant 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										
Frequency (MHz)										
15	QPSK	1	0	21.08	21.08	21.08	22.5	0		
15	QPSK	1	37	21.22	21.22	21.22				
15	QPSK	1	74	21.12	21.12	21.12				
15	QPSK	36	0	21.15	21.15	21.15	22.5	0		
15	QPSK	36	20	21.21	21.21	21.21				
15	QPSK	36	39	21.07	21.07	21.07				
15	QPSK	75	0	21.18	21.18	21.18	22.5	0		
15	16QAM	1	0	21.14	21.14	21.14				
15	16QAM	1	37	21.13	21.13	21.13				
15	16QAM	1	74	21.17	21.17	21.17	22.5	0		
15	16QAM	36	0	21.10	21.10	21.10				
15	16QAM	36	20	21.16	21.16	21.16				
15	16QAM	36	38	21.15	21.15	21.15	22.5	0		
15	16QAM	75	0	21.19	21.19	21.19				
15	16QAM	75	0	21.14	21.14	21.14				
15	64QAM	1	0	21.34	21.34	21.34	22.5	0		
15	64QAM	1	37	21.08	21.08	21.08				
15	64QAM	1	74	21.17	21.17	21.17				
15	64QAM	36	0	20.24	20.24	20.24	21.5	1		
15	64QAM	36	20	20.39	20.39	20.39				
15	64QAM	36	39	20.12	20.12	20.12				
15	64QAM	75	0	20.20	20.20	20.20	21.5	1		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.98	21.04	21.02	22.5	0		
10	QPSK	1	25	21.16	21.10	21.15				
10	QPSK	1	49	21.08	21.05	21.06				
10	QPSK	25	0	21.10	21.07	21.11	22.5	0		
10	QPSK	25	12	21.12	21.14	21.11				
10	QPSK	25	25	20.96	20.98	21.03				
10	QPSK	50	0	21.11	21.12	21.14	22.5	0		
10	16QAM	1	0	21.08	21.05	21.04				
10	16QAM	1	25	21.11	21.07	21.03				
10	16QAM	1	49	21.15	21.13	21.13	22.5	0		
10	16QAM	25	0	21.02	21.03	20.98				
10	16QAM	25	12	21.05	21.05	21.09				
10	16QAM	25	25	21.05	21.06	21.05	22.5	0		
10	16QAM	50	0	21.14	21.17	21.14				
10	64QAM	1	0	21.04	21.10	21.02				
10	64QAM	1	25	21.06	20.97	21.04	22.5	0		
10	64QAM	1	49	21.06	21.13	21.05				
10	64QAM	25	0	20.21	20.16	20.20				
10	64QAM	25	12	20.25	20.24	20.24	21.5	1		
10	64QAM	25	25	20.04	20.08	20.09				
10	64QAM	50	0	20.12	20.11	20.17				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.99	20.96	20.99	22.5	0		
5	QPSK	1	12	21.17	21.16	21.12				
5	QPSK	1	24	21.01	21.07	21.02				
5	QPSK	12	0	21.06	21.10	21.09	22.5	0		
5	QPSK	12	7	21.19	21.17	21.11				
5	QPSK	12	13	21.01	20.98	21.03				
5	QPSK	25	0	21.13	21.14	21.07	22.5	0		
5	16QAM	1	0	21.03	21.12	21.05				
5	16QAM	1	12	21.11	21.05	21.05				
5	16QAM	1	24	21.15	21.15	21.13	22.5	0		
5	16QAM	12	0	20.99	20.98	21.06				
5	16QAM	12	7	21.14	21.10	21.05				
5	16QAM	12	13	21.13	21.07	21.09	22.5	0		
5	16QAM	25	0	21.12	21.07	21.16				
5	64QAM	1	0	21.06	21.09	21.08				
5	64QAM	1	12	21.03	20.96	21.05	22.5	0		
5	64QAM	1	24	21.15	21.08	21.12				
5	64QAM	12	0	20.19	20.13	20.15				
5	64QAM	12	7	20.27	20.25	20.28	21.5	1		
5	64QAM	12	13	20.06	20.09	20.10				
5	64QAM	25	0	20.15	20.16	20.17				

Band 19_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.75	22.75	22.75	24	0
15	QPSK	1	37	22.92	22.92	22.92		
15	QPSK	1	74	22.73	22.73	22.73		
15	QPSK	36	0	21.90	21.90	21.90	23	1
15	QPSK	36	20	21.97	21.97	21.97		
15	QPSK	36	39	21.95	21.95	21.95		
15	QPSK	75	0	21.92	21.92	21.92	23	1
15	16QAM	1	0	22.03	22.03	22.03		
15	16QAM	1	37	22.10	22.10	22.10		
15	16QAM	1	74	21.80	21.80	21.80	22	2
15	16QAM	36	0	20.91	20.91	20.91		
15	16QAM	36	20	21.03	21.03	21.03		
15	16QAM	36	38	20.87	20.87	20.87	22	2
15	16QAM	75	0	20.99	20.99	20.99		
15	64QAM	1	0	20.96	20.96	20.96		
15	64QAM	1	37	20.89	20.89	20.89	22	2
15	64QAM	1	74	21.01	21.01	21.01		
15	64QAM	36	0	20.05	20.05	20.05		
15	64QAM	36	20	20.30	20.30	20.30	21	3
15	64QAM	36	39	19.89	19.89	19.89		
15	64QAM	75	0	20.00	20.00	20.00		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.74	22.74	22.72	24	0
10	QPSK	1	25	22.75	22.81	22.81		
10	QPSK	1	49	22.67	22.61	22.73		
10	QPSK	25	0	21.86	21.89	21.75	23	1
10	QPSK	25	12	21.95	21.88	21.92		
10	QPSK	25	25	21.81	21.91	21.95		
10	QPSK	50	0	21.81	21.86	21.84	23	1
10	16QAM	1	0	21.95	22.00	21.98		
10	16QAM	1	25	21.99	22.03	22.09		
10	16QAM	1	49	21.85	21.69	21.70	22	2
10	16QAM	25	0	20.84	20.79	20.81		
10	16QAM	25	12	20.89	20.98	21.02		
10	16QAM	25	25	20.83	20.78	20.84	22	2
10	16QAM	50	0	20.76	20.86	20.86		
10	64QAM	1	0	20.84	20.88	20.94		
10	64QAM	1	25	20.89	20.76	20.78	21	3
10	64QAM	1	49	20.95	21.01	20.96		
10	64QAM	25	0	20.02	20.04	19.97		
10	64QAM	25	12	19.92	19.99	19.90	21	3
10	64QAM	25	25	19.84	19.77	19.85		
10	64QAM	50	0	19.85	20.00	19.94		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.63	22.68	22.68	24	0
5	QPSK	1	12	22.87	22.85	22.84		
5	QPSK	1	24	22.65	22.63	22.58		
5	QPSK	12	0	21.81	21.87	21.89	23	1
5	QPSK	12	7	21.93	21.94	21.90		
5	QPSK	12	13	21.80	21.91	21.89		
5	QPSK	25	0	21.82	21.85	21.87	23	1
5	16QAM	1	0	22.02	22.03	22.02		
5	16QAM	1	12	21.98	22.06	21.95		
5	16QAM	1	24	21.63	21.59	21.57	22	2
5	16QAM	12	0	20.87	20.76	20.85		
5	16QAM	12	7	20.95	21.00	20.94		
5	16QAM	12	13	20.72	20.82	20.73	22	2
5	16QAM	25	0	20.76	20.81	20.78		
5	64QAM	1	0	20.82	20.84	20.84		
5	64QAM	1	12	20.84	20.76	20.86	21	3
5	64QAM	1	24	20.90	20.95	20.97		
5	64QAM	12	0	20.01	19.94	19.94		
5	64QAM	12	7	19.91	19.98	20.00	21	3
5	64QAM	12	13	19.81	19.81	19.75		
5	64QAM	25	0	19.87	19.85	19.97		



Band 26_Ant 13

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows for various channel frequencies and modulation types (QPSK, 16QAM, 64QAM).

Band 26_Ant 31

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows for various channel frequencies and modulation types (QPSK, 16QAM, 64QAM).



Band 66_Ant 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								
Frequency (MHz)								
20	QPSK	1	0	15.11	15.18	14.94	16	0
20	QPSK	1	49	15.11	15.25	15.11	16	0
20	QPSK	1	99	14.78	14.84	14.83	16	0
20	QPSK	50	0	15.19	15.20	15.18	16	0
20	QPSK	50	24	15.17	15.24	15.21	16	0
20	QPSK	50	50	15.15	15.23	15.18	16	0
20	QPSK	100	0	15.04	15.19	15.12	16	0
20	QPSK	100	0	15.16	15.14	15.16	16	0
20	16QAM	1	49	15.19	15.17	15.20	16	0
20	16QAM	1	99	15.23	15.23	15.24	16	0
20	16QAM	50	0	15.17	15.23	15.19	16	0
20	16QAM	50	24	15.18	15.21	15.18	16	0
20	16QAM	50	50	15.22	15.19	15.11	16	0
20	16QAM	100	0	15.16	15.14	15.13	16	0
20	64QAM	1	0	15.16	15.18	15.19	16	0
20	64QAM	1	49	15.19	15.23	15.15	16	0
20	64QAM	1	99	15.21	15.21	15.21	16	0
20	64QAM	50	0	15.19	15.23	15.24	16	0
20	64QAM	50	24	15.24	15.16	15.23	16	0
20	64QAM	50	50	15.17	15.16	15.23	16	0
20	64QAM	100	0	15.16	15.20	15.23	16	0
Channel								
Frequency (MHz)								
15	QPSK	1	0	15.05	15.09	14.82	16	0
15	QPSK	1	49	15.07	15.14	15.10	16	0
15	QPSK	1	74	14.70	14.82	14.80	16	0
15	QPSK	36	0	15.08	15.11	15.13	16	0
15	QPSK	36	20	15.16	15.17	15.18	16	0
15	QPSK	36	39	15.07	15.11	15.10	16	0
15	QPSK	75	0	15.00	15.09	15.06	16	0
15	16QAM	1	49	15.09	15.09	15.05	16	0
15	16QAM	1	37	15.15	15.06	15.10	16	0
15	16QAM	1	74	15.13	15.18	15.18	16	0
15	16QAM	1	99	15.11	15.15	15.14	16	0
15	16QAM	36	20	15.16	15.19	15.04	16	0
15	16QAM	36	39	15.14	15.00	14.99	16	0
15	16QAM	75	0	15.14	15.07	15.01	16	0
15	64QAM	1	0	15.08	15.07	15.17	16	0
15	64QAM	1	37	15.12	15.16	15.12	16	0
15	64QAM	1	74	15.11	15.11	15.13	16	0
15	64QAM	36	0	15.13	15.14	15.21	16	0
15	64QAM	36	20	15.22	15.09	15.18	16	0
15	64QAM	36	39	15.07	15.04	15.18	16	0
15	64QAM	75	0	15.10	15.15	15.11	16	0
Channel								
Frequency (MHz)								
10	QPSK	1	0	15.04	15.12	14.92	16	0
10	QPSK	1	25	15.05	15.18	15.03	16	0
10	QPSK	1	49	14.68	14.73	14.78	16	0
10	QPSK	25	0	15.18	15.13	15.10	16	0
10	QPSK	25	12	15.14	15.22	15.12	16	0
10	QPSK	25	25	15.11	15.11	15.16	16	0
10	QPSK	50	0	14.99	15.00	15.00	16	0
10	16QAM	1	0	15.14	15.05	15.04	16	0
10	16QAM	1	25	15.10	15.15	15.15	16	0
10	16QAM	1	49	15.19	15.18	15.12	16	0
10	16QAM	25	0	15.08	15.15	15.17	16	0
10	16QAM	25	12	15.08	15.16	15.04	16	0
10	16QAM	25	25	15.10	15.03	15.08	16	0
10	16QAM	50	0	15.09	15.04	15.11	16	0
10	64QAM	1	0	15.11	15.14	15.13	16	0
10	64QAM	1	25	15.09	15.15	15.04	16	0
10	64QAM	1	49	15.10	15.16	15.09	16	0
10	64QAM	25	0	15.12	15.20	15.16	16	0
10	64QAM	25	12	15.22	15.07	15.18	16	0
10	64QAM	25	25	15.07	15.05	15.07	16	0
10	64QAM	50	0	15.11	15.15	15.12	16	0
Channel								
Frequency (MHz)								
5	QPSK	1	0	15.08	15.06	14.80	16	0
5	QPSK	1	12	15.05	15.19	15.12	16	0
5	QPSK	1	24	14.69	14.81	14.81	16	0
5	QPSK	12	0	15.11	15.12	15.08	16	0
5	QPSK	12	7	15.14	15.15	15.12	16	0
5	QPSK	12	13	15.10	15.19	15.13	16	0
5	QPSK	25	0	15.00	15.08	15.02	16	0
5	16QAM	1	0	15.09	15.06	15.01	16	0
5	16QAM	1	12	15.07	15.08	15.09	16	0
5	16QAM	1	24	15.14	15.15	15.15	16	0
5	16QAM	12	0	15.10	15.21	15.14	16	0
5	16QAM	12	7	15.06	15.16	15.09	16	0
5	16QAM	12	13	15.16	15.03	15.09	16	0
5	16QAM	25	0	15.07	15.08	15.02	16	0
5	64QAM	1	0	15.14	15.12	15.17	16	0
5	64QAM	1	12	15.13	15.15	15.03	16	0
5	64QAM	1	24	15.13	15.19	15.14	16	0
5	64QAM	12	0	15.15	15.16	15.13	16	0
5	64QAM	12	7	15.18	15.09	15.13	16	0
5	64QAM	12	13	15.06	15.12	15.16	16	0
5	64QAM	25	0	15.06	15.13	15.12	16	0
Channel								
Frequency (MHz)								
3	QPSK	1	0	15.00	15.15	14.87	16	0
3	QPSK	1	8	15.09	15.23	15.08	16	0
3	QPSK	1	14	14.76	14.76	14.77	16	0
3	QPSK	8	0	15.07	15.17	15.10	16	0
3	QPSK	8	4	15.15	15.17	15.17	16	0
3	QPSK	8	7	15.12	15.21	15.14	16	0
3	QPSK	15	0	14.98	15.09	15.03	16	0
3	16QAM	1	0	15.09	15.11	15.06	16	0
3	16QAM	1	8	15.07	15.07	15.14	16	0
3	16QAM	1	14	15.21	15.14	15.19	16	0
3	16QAM	8	0	15.05	15.14	15.14	16	0
3	16QAM	8	4	15.07	15.10	15.04	16	0
3	16QAM	8	7	15.16	14.98	15.07	16	0
3	16QAM	15	0	15.12	15.11	15.11	16	0
3	64QAM	1	0	15.12	15.16	15.09	16	0
3	64QAM	1	8	15.14	15.14	15.06	16	0
3	64QAM	1	14	15.09	15.10	15.17	16	0
3	64QAM	8	0	15.08	15.13	15.15	16	0
3	64QAM	8	4	15.12	15.11	15.19	16	0
3	64QAM	8	7	15.15	15.11	15.11	16	0
3	64QAM	15	0	15.09	15.10	15.18	16	0
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	15.03	15.15	14.81	16	0
1.4	QPSK	1	3	15.07	15.18	15.12	16	0
1.4	QPSK	1	5	14.89	14.74	14.80	16	0
1.4	QPSK	3	0	15.17	15.16	15.09	16	0
1.4	QPSK	3	1	15.15	15.21	15.15	16	0
1.4	QPSK	3	3	15.03	15.18	15.06	16	0
1.4	QPSK	3	0	14.94	15.14	15.00	16	0
1.4	16QAM	1	0	15.14	15.07	15.09	16	0
1.4	16QAM	1	3	15.08	15.08	15.17	16	0
1.4	16QAM	1	5	15.19	15.13	15.22	16	0
1.4	16QAM	3	0	15.07	15.20	15.15	16	0
1.4	16QAM	3	1	15.06	15.10	15.14	16	0
1.4	16QAM	3	3	15.19	15.00	15.02	16	0
1.4	16QAM	6	0	15.12	15.12	15.08	16	0
1.4	64QAM	1	0	15.08	15.15	15.16	16	0
1.4	64QAM	1	3	15.10	15.21	15.05	16	0
1.4	64QAM	1	5	15.16	15.18	15.11	16	0
1.4	64QAM	3	0	15.17	15.17	15.22	16	0
1.4	64QAM	3	1	15.22	15.09	15.19	16	0
1.4	64QAM	3	3	15.14	15.19	15.19	16	0
1.4	64QAM	6	0	15.13	15.08	15.13	16	0

Band 66_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.02	23.07	23.06	24	0
20	QPSK	1	49	23.02	23.16	23.14	24	0
20	QPSK	1	99	22.98	22.90	22.94	24	0
20	QPSK	50	0	22.08	22.17	22.19	23	1
20	QPSK	50	24	22.08	22.25	22.25	23	1
20	QPSK	50	50	22.18	22.14	22.18	23	1
20	QPSK	100	0	22.12	22.19	22.18	23	1
20	QPSK	100	0	22.20	22.27	22.28	23	1
20</								



Band 38_Ant 13

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											
Frequency (MHz)											
20	QPSK	1	0	16.05	16.10	16.14	17	0			
20	QPSK	1	49	16.30	16.35	16.39					
20	QPSK	1	99	16.55	16.60	16.64					
20	QPSK	50	0	16.29	16.31	16.25	17	0			
20	QPSK	50	24	16.29	16.33	16.37					
20	QPSK	50	50	16.27	16.32	16.28					
20	QPSK	100	0	16.19	16.31	16.30	17	0			
20	16QAM	1	0	16.19	16.25	16.25					
20	16QAM	1	99	16.27	16.28	16.32					
20	16QAM	50	0	16.11	16.19	16.32	17	0			
20	16QAM	50	24	16.27	16.31	16.27					
20	16QAM	50	50	16.29	16.29	16.31					
20	16QAM	100	0	16.20	16.26	16.30	17	0			
20	16QAM	100	1	16.01	16.13	16.33					
20	16QAM	1	49	16.24	16.31	16.25					
20	64QAM	1	99	16.23	16.34	16.33	17	0			
20	64QAM	50	0	16.13	16.29	16.31					
20	64QAM	50	24	16.27	16.30	16.31					
20	64QAM	50	50	16.24	16.34	16.31	17	0			
20	64QAM	100	0	16.13	16.30	16.31					
Channel											
Frequency (MHz)											
15	QPSK	1	0	15.97	16.00	16.03	17	0			
15	QPSK	1	37	16.25	16.25	16.27					
15	QPSK	1	74	16.05	16.06	16.16					
15	QPSK	36	0	16.18	16.04	16.24	17	0			
15	QPSK	36	20	16.27	16.30	16.29					
15	QPSK	36	39	16.22	16.21	16.17					
15	QPSK	75	0	16.08	16.16	16.18	17	0			
15	QPSK	75	0	16.11	16.23	16.18					
15	16QAM	1	0	16.22	16.23	16.21					
15	16QAM	1	37	16.21	16.28	16.28	17	0			
15	16QAM	14	0	16.00	16.13	16.25					
15	16QAM	36	20	16.23	16.29	16.17					
15	16QAM	36	39	16.22	16.26	16.28	17	0			
15	16QAM	75	0	16.13	16.20	16.21					
15	16QAM	1	0	16.07	16.07	16.27					
15	64QAM	1	37	16.20	16.28	16.17	17	0			
15	64QAM	1	74	16.16	16.28	16.25					
15	64QAM	36	20	16.23	16.24	16.24					
15	64QAM	36	39	16.23	16.23	16.20	17	0			
15	64QAM	75	0	16.08	16.30	16.28					
15	64QAM	75	0	16.08	16.23	16.19					
Channel											
Frequency (MHz)											
10	QPSK	1	0	15.99	16.00	16.03	17	0			
10	QPSK	1	25	16.22	16.28	16.28					
10	QPSK	1	49	15.97	16.07	16.13					
10	QPSK	25	0	16.21	16.04	16.18	17	0			
10	QPSK	25	12	16.22	16.28	16.28					
10	QPSK	25	25	16.18	16.23	16.21					
10	QPSK	50	0	16.07	16.18	16.18	17	0			
10	16QAM	1	0	16.12	16.14	16.16					
10	16QAM	1	25	16.17	16.26	16.20					
10	16QAM	1	49	16.22	16.25	16.26	17	0			
10	16QAM	25	0	16.05	16.13	16.28					
10	16QAM	25	12	16.16	16.24	16.20					
10	16QAM	25	25	16.20	16.20	16.25	17	0			
10	16QAM	50	0	16.18	16.22	16.19					
10	16QAM	1	0	15.89	16.06	16.29					
10	64QAM	1	25	16.14	16.24	16.17	17	0			
10	64QAM	1	49	16.14	16.30	16.21					
10	64QAM	1	74	16.01	16.24	16.27					
10	64QAM	25	0	16.16	16.26	16.29	17	0			
10	64QAM	25	12	16.16	16.26	16.29					
10	64QAM	25	25	16.16	16.26	16.19					
10	64QAM	50	0	16.02	16.10	16.24	17	0			
Channel											
Frequency (MHz)											
5	QPSK	1	0	16.01	16.06	16.09	17	0			
5	QPSK	1	12	16.23	16.24	16.26					
5	QPSK	1	24	16.01	16.01	16.17					
5	QPSK	12	0	16.26	16.06	16.16	17	0			
5	QPSK	12	7	16.26	16.30	16.20					
5	QPSK	12	13	16.25	16.22	16.17					
5	QPSK	25	0	16.11	16.21	16.27	17	0			
5	16QAM	1	0	16.14	16.18	16.15					
5	16QAM	1	12	16.20	16.31	16.24					
5	16QAM	1	24	16.23	16.29	16.27	17	0			
5	16QAM	12	0	16.02	16.13	16.22					
5	16QAM	12	7	16.25	16.20	16.15					
5	16QAM	12	13	16.19	16.21	16.19	17	0			
5	16QAM	25	0	16.11	16.24	16.20					
5	16QAM	1	0	15.93	16.01	16.24					
5	64QAM	1	12	16.17	16.24	16.16	17	0			
5	64QAM	1	24	16.16	16.32	16.25					
5	64QAM	12	0	16.10	16.22	16.29					
5	64QAM	12	7	16.25	16.23	16.25	17	0			
5	64QAM	12	13	16.20	16.27	16.20					
5	64QAM	25	0	16.11	16.25	16.16					

Band 38_Ant 31

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									
Frequency (MHz)									
20	QPSK	1	0	23.71	23.72	23.70	24.5	0	
20	QPSK	1	49	23.98	24.03	23.99			
20	QPSK	1	99	23.87	23.97	23.82			
20	QPSK	50	0	22.99	22.97	22.90	23.5	1	
20	QPSK	50	24	23.06	23.10	23.05			
20	QPSK	50	50	23.05	23.01	23.04			
20	QPSK	100	0	23.08	23.09	23.04	23.5	1	
20	16QAM	1	0	23.12	23.05	22.99			
20	16QAM	1	49	23.37	23.36	23.24			
20	16QAM	50	0	22.05	22.02	21.97	22.5	2	
20	16QAM	50	24	22.20	22.14	22.14			
20	16QAM	50	50	22.14	22.19	22.11			
20	16QAM	100	0	22.08	22.08	22.11	22.5	2	
20	16QAM	100	1	22.03	21.92	22.01			
20	16QAM	1	49	22.30	22.19	22.21			
20	64QAM	1	99	22.08	22.05	22.04	22.5	2	
20	64QAM	50	0	21.08	20.98	21.05			
20	64QAM	50	24	21.28	21.12	21.16			
20	64QAM	50	50	21.14	21.22	21.18	21.5	3	
20	64QAM	100	0	21.11	21.11	21.18			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.73	23.73	23.72	24.5	0	
15	QPSK	1	37	23.88	23.89	23.85			
15	QPSK	1	74	23.81	23.78	23.77			
15	QPSK	36	0	22.99	22.99	22.90	23.5	1	
15	QPSK	36	20	22.96	23.00	22.94			
15	QPSK	36	39	22.92	22.88	22.90			
15	QPSK	75	0	23.03	23.03	23.00	23.5	1	
15	16QAM	1	0	23.01	22.99	22.85			
15	16QAM	1	37	23.35	23.34	23.18			
15	16QAM	14	0	23.02	23.13	23.08	22.5	2	
15	16QAM	36	20	21.98	22.01	21.93			
15	16QAM	36	39	22.07	22.09	22.10			
15	16QAM	75	0	21.99	22.03	21.99	22.5	2	
15	64QAM	1	0	21.96	21.88	22.06			
15	64QAM	1	37	22.24	22.18	22.18			
15	64QAM	1	74	22.02	22.01	22.04	21.5	3	
15	64QAM	36	20	21.01	20.80	20.94			
15	64QAM	36	39	21.21	21.00	21.11			
15	64QAM	36	39	21.10	21.21	21.14	21.5	3	
15	64QAM	75	0	20.98	21.05	21.13			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.67	23.67	23.70	24.5	0	
10	QPSK	1	25	23.83	23.92	23.84			
10	QPSK	1	49	23.76	23.84	23.81			
10	QPSK	25	0	22.90	22.86	22.84	23.5	1	
10	QPSK	25	12	23.00	23.06	22.95			
10	QPSK	25	25	23.00	22.88	22.96			
10	QPSK	50	0	23.08	23.08	23.02	23.5	1	
10	16QAM	1	0	23.09	22.96	22.87			
10	16QAM	1	25	23.25	23.34	23.15			
10	16QAM	1	49	23.05	23.04	23.08	22.5	2	
10	16QAM	25	0	22.03	21.88	21.93			
10	16QAM	25	12	22.15	22.03	22.14			
10	16QAM	25	25	22.14	22.15	21.97	22.5	2	
10	16QAM	50	0	22.04	22.02	22.07			
10	16QAM	1	0	21.90	21.92	21.92			
10	64QAM	1	25	22.30	22.08	22.11	22.5	2	
10	64QAM	1	49	21.97	21.91	21.93			
10	64QAM	1	74	22.02	22.01	22.04			
10	64QAM	25	0	20.96	20.85	21.05	21.5	3	
10	64QAM	25	12	21.21	21.07	21.13			
10	64QAM	25	25	21.03	21.08	21.13			
10	64QAM	50	0						



Band 41_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)												
				39750	40185	40620	41055	41490				
20	QPSK	1	0	14.48	14.53	14.74	14.48	14.47	15.5	0		
20	QPSK	1	49	14.83	14.71	14.80	14.83	14.83				
20	QPSK	50	0	14.83	14.81	14.81	14.80	14.79				
20	QPSK	50	24	14.79	14.70	14.83	14.80	14.82				
20	QPSK	50	50	14.68	14.63	14.68	14.60	14.73				
20	QPSK	100	0	14.68	14.63	14.82	14.72	14.73				
20	16QAM	1	0	14.75	14.57	14.82	14.68	14.64	15.5	0		
20	16QAM	1	49	14.68	14.63	14.85	14.80	14.87				
20	16QAM	1	99	14.74	14.65	14.75	14.78	14.68				
20	16QAM	50	0	14.68	14.80	14.80	14.72	14.59				
20	16QAM	50	24	14.71	14.63	14.80	14.81	14.58				
20	16QAM	50	50	14.68	14.68	14.78	14.72	14.68				
20	16QAM	100	0	14.72	14.84	14.83	14.78	14.68	15.5	0		
20	16QAM	1	49	14.74	14.67	14.75	14.77	14.65				
20	16QAM	1	99	14.68	14.62	14.75	14.72	14.69				
20	16QAM	50	24	14.74	14.62	14.85	14.73	14.62				
20	16QAM	50	50	14.61	14.59	14.58	14.54	14.63				
20	16QAM	100	0	14.64	14.55	14.79	14.75	14.63	15.5	0		
20	16QAM	50	24	14.71	14.64	14.74	14.78	14.55				
20	16QAM	50	50	14.68	14.61	14.76	14.58	14.73				
Channel												
Frequency (MHz)												
				39726	40173	40620	41068	41516				
15	QPSK	1	0	14.50	14.52	14.68	14.50	14.45	15.0	0		
15	QPSK	1	37	14.73	14.67	14.83	14.79	14.73				
15	QPSK	1	74	14.45	14.44	14.56	14.57	14.55				
15	QPSK	36	0	14.61	14.40	14.62	14.63	14.71				
15	QPSK	36	20	14.77	14.61	14.71	14.77	14.70				
15	QPSK	36	39	14.61	14.58	14.57	14.58	14.67				
15	QPSK	75	0	14.52	14.54	14.72	14.60	14.64	15.5	0		
15	16QAM	1	0	14.67	14.54	14.74	14.54	14.61				
15	16QAM	1	37	14.50	14.58	14.83	14.77	14.63				
15	16QAM	1	74	14.52	14.61	14.67	14.69	14.59				
15	16QAM	36	0	14.59	14.50	14.75	14.65	14.58				
15	16QAM	36	20	14.62	14.56	14.64	14.61	14.60	15.5	0		
15	16QAM	36	39	14.63	14.61	14.71	14.69	14.64				
15	16QAM	75	0	14.63	14.53	14.78	14.73	14.64				
15	16QAM	36	39	14.53	14.55	14.70	14.62	14.65				
15	16QAM	1	37	14.53	14.60	14.71	14.66	14.67				
15	16QAM	1	74	14.66	14.50	14.83	14.65	14.57	15.5	0		
15	16QAM	36	20	14.62	14.51	14.47	14.58	14.56				
15	16QAM	36	39	14.54	14.46	14.77	14.70	14.54				
15	16QAM	36	39	14.67	14.54	14.71	14.74	14.51				
15	16QAM	75	0	14.65	14.58	14.68	14.52	14.61				
Channel												
Frequency (MHz)												
				39700	40160	40620	41060	41540				
10	QPSK	1	0	14.30	14.40	14.71	14.40	14.44	15.0	0		
10	QPSK	1	25	14.72	14.67	14.81	14.77	14.80				
10	QPSK	1	49	14.48	14.46	14.55	14.55	14.62				
10	QPSK	25	12	14.70	14.68	14.78	14.71	14.77				
10	QPSK	25	25	14.56	14.56	14.56	14.55	14.61				
10	16QAM	1	0	14.65	14.55	14.77	14.57	14.52	15.5	0		
10	16QAM	1	25	14.56	14.51	14.78	14.69	14.65				
10	16QAM	25	0	14.68	14.49	14.68	14.67	14.50				
10	16QAM	25	12	14.63	14.55	14.71	14.79	14.47				
10	16QAM	25	25	14.63	14.60	14.66	14.69	14.58				
10	16QAM	50	0	14.69	14.57	14.74	14.64	14.61	15.5	0		
10	16QAM	1	0	14.63	14.61	14.65	14.68	14.54				
10	16QAM	1	25	14.57	14.52	14.65	14.69	14.64				
10	16QAM	1	49	14.71	14.51	14.82	14.64	14.53				
10	16QAM	25	0	14.55	14.50	14.49	14.50	14.60				
10	16QAM	25	12	14.55	14.47	14.77	14.71	14.58	15.5	0		
10	16QAM	25	25	14.68	14.55	14.69	14.68	14.52				
10	16QAM	50	0	14.60	14.53	14.71	14.51	14.64				
Channel												
Frequency (MHz)												
				26855	26452	25933	26430	26875				
5	QPSK	1	0	14.38	14.53	14.62	14.42	14.40	15.0	0		
5	QPSK	1	12	14.78	14.64	14.83	14.78	14.81				
5	QPSK	1	24	14.48	14.52	14.49	14.54	14.61				
5	QPSK	12	0	14.50	14.43	14.55	14.64	14.71				
5	QPSK	12	7	14.74	14.68	14.78	14.68	14.73				
5	QPSK	12	13	14.60	14.54	14.62	14.58	14.71	15.5	0		
5	QPSK	25	0	14.59	14.55	14.78	14.68	14.67				
5	16QAM	1	0	14.75	14.47	14.78	14.64	14.61				
5	16QAM	1	12	14.59	14.55	14.83	14.73	14.60				
5	16QAM	12	0	14.61	14.48	14.71	14.70	14.51				
5	16QAM	12	7	14.63	14.57	14.70	14.78	14.53	15.5	0		
5	16QAM	12	13	14.68	14.63	14.66	14.60	14.65				
5	16QAM	25	0	14.70	14.57	14.77	14.70	14.58				
5	16QAM	1	0	14.70	14.58	14.83	14.75	14.60				
5	16QAM	1	12	14.68	14.50	14.84	14.63	14.63				
5	16QAM	1	24	14.69	14.54	14.77	14.69	14.59	15.5	0		
5	16QAM	12	0	14.49	14.51	14.47	14.51	14.53				
5	16QAM	12	7	14.58	14.49	14.73	14.69	14.61				
5	16QAM	12	13	14.64	14.53	14.65	14.66	14.53				
5	16QAM	25	0	14.61	14.58	14.64	14.53	14.69				

Band 41_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
				39750	40185	40620	41055	41490		
20	QPSK	1	0	23.81	23.82	23.84	23.80	23.81	24.5	0
20	QPSK	1	49	23.85	24.01	24.05	24.05	23.97		
20	QPSK	50	0	23.88	23.81	23.85	23.82	23.82		
20	QPSK	50	24	22.85	22.96	22.92	22.93	23.00		
20	QPSK	50	50	23.05	23.08	23.10	23.07	23.04		
20	QPSK	100	0	22.90	22.96	22.99	22.97	22.88	23.5	1
20	16QAM	1	0	22.95	23.06	23.08	22.93	23.00		
20	16QAM	1	49	23.21	23.38	23.23	23.25	23.21		
20	16QAM	1	99	23.03	23.17	23.08	23.06	22.98		
20	16QAM	50	0	21.89	21.98	22.03	21.94	22.05		
20	16QAM	50	24	22.04	22.12	22.10	22.12	22.07	22.5	2
20	16QAM	50	50	22.15	22.09	22.04	22.07	21.90		
20	16QAM	100	0	21.98	22.07	22.07	22.02	21.90		
20	16QAM	1	49	22.11	22.23	22.17	22.13	22.15		
20	16QAM	1	99	21.96	22.06	22.02	21.98	21.92		
20	16QAM	50	0	20.87	20.97	21.02	20.92	21.02	21.5	3
20	16QAM	50	24	21.02	21.16	21.12	21.18	21.04		
20	16QAM	50	50	21.04	21.12	21.09	21.10	20.95		
20	16QAM	100	0	21.02	21.07	21.07	21.01	21.02		
Channel										
Frequency (MHz)										
				39726	40173	40620	41068	41516		
15	QPSK	1	0	23.82	23.84	23.84	23.79	23.82	24.5	0
15	QPSK	1	37	23.84	24.02	24.01	23.97	24.02		
15	QPSK	1	74	23.72	23.74	23.73	23.83	23.72		
15	QPSK	36	0	22.86	22.92	22.85	22.87	22.88		
15	QPSK	36	20	23.02	23.07	23.09	23.04	23.02		
15	QPSK	36	39	22.90	22.96	22.90	23.02	23.04	23.5	1
15	QPSK	75	0	22.86	22.92	22.84	22.86	22.85		
15	16QAM	1	0	23.03	23.05	23.00	22.95	22.94		
15	16QAM	1	37	23.12	23.13	23.16	23.10	23.15		
15	16QAM	1	74	23.26	22.99	23.02	22.84	22.97		
15	16QAM	36	0	21.95	22.00	22.00	22.00	21.92	22.5	2
15	16QAM	36	20	21.88	21.98	21.84	21.89	21.94		
15	16QAM	36	39	21.93	21.93	21.89	21.90	21.90		
15	16QAM	75	0	22.03	22.03	22.01	22.05	21.84		
15	16QAM	1	37	22.15	22.03	22.13	22.14	22.10		
15	16QAM	1	74	21.87	21.94	21.98	21.80	22.01	21.5	3
15	16QAM	36	20	21.98	21.98	20.91	20.97	20.96		
15	16QAM	36	39	21.05	20.99	20.98	21.12	21.03		
15	16QAM	36	39	20.91	20.96	20.99	21.02	21.08		
15	16QAM	75	0	21.05	21.04	20.98	20.88	20.98		
Channel										
Frequency (MHz)										
				25011	25247	25233	25233	25233		
10	QPSK	1	0	23.73	23.71	23.71	23.78	23.79	24.5	0
10	QPSK	1	25	24.02	23.97	23.99	23.92	23.95		
10	QPSK	1	49	23.74	23.70	23.74	23.73	23.71		
10	QPSK	25	12	22.95	22.98	22.97	23.02	22.95		
10	QPSK	25	25	22.99	22.99	23.01	22.93	23.01		
10	16QAM	1	0	23.03	22.93	22.84	23.08	23.01	23.5	1
10	16QAM	1	25	23.15	23.08	23.10	23.13	23.10		
10	16QAM	25	0	21.98	21.88	21.86	21.84	21.88		
10	16QAM	25	12	22.05	22.08	21.98	22.03</			



Reduced Power Mode for DSI3

CGSM

GSM850_Ant 13	Burst Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit
	128	189	251		128	189	251	
TX Channel	512	661	810	512	661	810	512	661
Frequency (MHz)	824.2	832.4	840.6	824.2	832.4	840.6	824.2	832.4
GSM 1 Tx slot	30.02	30.01	29.97	31.50	21.02	21.01	20.97	22.50
GPRS/EDGE(GMSK) 1 Tx slot	30.12	30.03	29.98	31.50	21.12	21.03	20.98	22.50
GPRS/EDGE(GMSK) 2 Tx slots	27.49	27.50	27.43	29.00	21.49	21.50	21.43	23.00
GPRS/EDGE(GMSK) 3 Tx slots	24.83	24.77	24.76	26.50	20.57	20.51	20.50	22.24
GPRS/EDGE(GMSK) 4 Tx slots	23.66	23.63	23.62	25.50	20.66	20.63	20.62	22.50
EDGE 1 Tx slot	26.89	26.88	26.85	28.00	17.89	17.88	17.85	19.00
EDGE 2 Tx slots	23.01	23.02	23.07	26.00	19.02	19.02	18.97	20.00
EDGE 3 Tx slots	22.75	22.89	22.77	24.00	18.49	18.63	18.51	19.74
EDGE 4 Tx slots	20.45	20.35	20.37	22.00	17.45	17.35	17.37	19.00

GSM1800_Ant 13	Burst Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit
	512	661	810 <th>512</th> <th>661</th> <th>810 </th>		512	661	810	
TX Channel	512	661	810	512	661	810	512	661
Frequency (MHz)	1825.2	1830	1835.8	1825.2	1830	1835.8	1825.2	1830
GSM 1 Tx slot	24.15	23.99	23.96	24.50	15.15	14.99	14.96	15.50
GPRS/EDGE(GMSK) 1 Tx slot	24.18	24.01	24.02	24.50	15.18	15.01	15.02	15.50
GPRS/EDGE(GMSK) 2 Tx slots	21.27	21.11	21.09	22.00	15.27	15.11	15.09	16.00
GPRS/EDGE(GMSK) 3 Tx slots	18.15	18.00	17.98	19.50	13.89	13.74	13.72	15.24
GPRS/EDGE(GMSK) 4 Tx slots	17.57	17.48	17.48	18.00	14.57	14.48	14.48	16.00
EDGE 1 Tx slot	24.93	24.48	24.22	25.00	15.93	15.48	15.29	16.00
EDGE 2 Tx slots	22.38	22.30	22.15	22.50	16.38	16.30	16.15	16.50
EDGE 3 Tx slots	19.38	19.10	19.24	20.00	15.12	14.84	14.98	16.74
EDGE 4 Tx slots	18.27	18.16	18.06	19.00	15.27	15.16	15.06	16.00

WCDMA

Band	TX Channel	WCDMA E_Ant 13			Turn-up Limit	WCDMA N_Ant 13			Turn-up Limit	WCDMA V_Ant 13			Turn-up Limit
		9824	9800	9938		1312	1413	1513		4132	4182	4233	
3GPP Rel 99	AMR 12.2Kbps	14.07	14.07	14.07	15.00	13.93	13.98	13.93	15.00	20.20	20.24	20.24	21.00
3GPP Rel 99	RMC 12.2Kbps	14.08	14.14	14.10	15.00	13.93	14.00	13.91	15.00	20.21	20.28	20.25	21.00
3GPP Rel 6	HSRPA Subclass-1	13.22	13.09	13.25	14.00	12.97	12.95	12.85	14.00	18.41	18.42	18.44	20.00
3GPP Rel 6	HSRPA Subclass-2	13.07	13.01	13.17	14.00	13.03	12.91	12.87	14.00	18.43	18.37	18.26	20.00
3GPP Rel 6	HSRPA Subclass-3	12.59	12.60	12.62	13.50	12.44	12.31	12.50	13.50	18.00	18.98	18.72	19.50
3GPP Rel 6	HSRPA Subclass-4	12.64	12.47	12.58	13.50	12.58	12.34	12.55	13.50	18.07	18.94	18.73	19.50
3GPP Rel 6	DC-HSRPA Subclass-1	13.15	13.03	13.22	14.00	12.86	12.96	12.86	14.00	18.26	18.32	18.45	20.00
3GPP Rel 6	DC-HSRPA Subclass-2	13.05	13.06	13.08	14.00	13.01	12.98	12.93	14.00	18.32	18.44	18.16	20.00
3GPP Rel 6	DC-HSRPA Subclass-3	12.46	12.56	12.56	13.50	12.44	12.38	12.39	13.50	18.83	18.89	18.68	19.50
3GPP Rel 6	DC-HSRPA Subclass-4	12.50	12.48	12.51	13.50	12.58	12.28	12.47	13.50	18.89	18.53	18.72	19.50
3GPP Rel 6	HSUPA Subclass-1	11.17	11.10	11.15	12.00	10.87	10.88	10.90	12.00	18.37	18.45	18.45	19.00
3GPP Rel 6	HSUPA Subclass-2	11.28	11.22	11.15	12.00	10.89	10.98	10.93	12.00	18.35	18.44	18.37	19.00
3GPP Rel 6	HSUPA Subclass-3	12.22	12.19	12.25	13.00	11.92	12.02	11.97	13.00	19.32	19.40	19.36	20.00
3GPP Rel 6	HSUPA Subclass-4	10.64	10.75	10.78	11.50	10.44	10.62	10.44	11.50	17.78	17.86	17.87	18.50
3GPP Rel 6	HSUPA Subclass-5	12.14	12.14	12.09	13.00	11.87	11.92	11.84	13.00	18.26	18.25	18.26	20.00
3GPP Rel 7	HSPA (HSPA) Subclass-1	11.16	11.25	11.08	12.00	10.95	11.01	11.03	12.00	18.37	18.40	18.35	19.00

Band	TX Channel	WCDMA E_Ant 31			Turn-up Limit	WCDMA N_Ant 31			Turn-up Limit	WCDMA V_Ant 31			Turn-up Limit
		9824	9800	9938		1312	1413	1513		4132	4182	4233	
3GPP Rel 99	AMR 12.2Kbps	23.22	23.31	23.29	24.00	23.02	23.14	23.12	24.00	23.22	23.24	23.20	24.00
3GPP Rel 99	RMC 12.2Kbps	23.24	23.32	23.31	24.00	23.05	23.16	23.14	24.00	23.25	23.26	23.23	24.00
3GPP Rel 6	HSRPA Subclass-1	22.27	22.27	22.45	23.00	22.02	22.16	22.10	23.00	22.23	22.25	22.36	23.00
3GPP Rel 6	HSRPA Subclass-2	22.14	22.13	22.17	23.00	21.91	22.06	22.10	23.00	22.15	22.13	22.11	23.00
3GPP Rel 6	HSRPA Subclass-3	21.79	21.65	21.79	22.50	21.44	21.53	21.63	22.50	21.66	21.78	21.69	22.50
3GPP Rel 6	HSRPA Subclass-4	21.88	21.81	21.77	22.50	21.50	21.60	21.64	22.50	21.66	21.62	21.67	22.50
3GPP Rel 6	DC-HSRPA Subclass-1	22.23	22.20	22.40	23.00	22.00	22.10	22.03	23.00	22.19	22.23	22.27	23.00
3GPP Rel 6	DC-HSRPA Subclass-2	22.07	22.06	22.12	23.00	21.84	21.99	22.06	23.00	22.11	22.08	22.07	23.00
3GPP Rel 6	DC-HSRPA Subclass-3	21.79	21.63	21.75	22.50	21.40	21.49	21.57	22.50	21.61	21.73	21.67	22.50
3GPP Rel 6	DC-HSRPA Subclass-4	21.63	21.59	21.74	22.50	21.44	21.55	21.57	22.50	21.62	21.57	21.63	22.50
3GPP Rel 6	HSUPA Subclass-1	20.37	20.23	20.52	21.20	20.11	20.18	20.17	21.00	21.17	20.98	21.10	22.50
3GPP Rel 6	HSUPA Subclass-2	20.26	20.27	20.42	21.20	20.09	20.14	20.13	21.00	21.00	21.07	21.00	22.50
3GPP Rel 6	HSUPA Subclass-3	21.27	21.28	21.48	22.00	21.06	21.17	21.15	22.00	21.04	22.00	21.92	23.00
3GPP Rel 6	HSUPA Subclass-4	19.89	19.72	20.01	20.50	19.57	19.60	19.61	20.50	20.43	20.49	20.45	21.50
3GPP Rel 6	HSUPA Subclass-5	21.30	21.20	21.30	22.00	21.00	21.10	21.10	22.00	21.90	21.80	21.90	23.00
3GPP Rel 7	HSPA (HSPA) Subclass-1	20.34	20.33	20.44	21.20	20.15	20.20	20.18	21.20	21.14	21.04	21.05	22.50

CGSM

GSM850_Ant 31	Burst Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit
	128	189	251		128	189	251	
TX Channel	512	661	810	512	661	810	512	661
Frequency (MHz)	824.2	832.4	840.6	824.2	832.4	840.6	824.2	832.4
GSM 1 Tx slot	32.30	32.43	32.42	33.50	23.30	23.43	23.42	24.50
GPRS/EDGE(GMSK) 1 Tx slot	32.28	32.42	32.41	33.50	23.28	23.42	23.41	24.50
GPRS/EDGE(GMSK) 2 Tx slots	30.19	30.35	30.34	31.50	24.19	24.35	24.34	25.50
GPRS/EDGE(GMSK) 3 Tx slots	28.01	28.18	28.17	29.50	23.75	23.92	23.91	25.24
GPRS/EDGE(GMSK) 4 Tx slots	25.78	25.93	25.92	27.50	22.78	22.93	22.92	24.50
EDGE 1 Tx slot	26.37	26.62	26.61	27.50	17.37	17.62	17.61	18.50
EDGE 2 Tx slots	24.56	24.61	24.65	25.50	18.56	18.61	18.65	19.50
EDGE 3 Tx slots	22.28	22.34	22.51	23.50	18.02	18.08	18.25	19.24
EDGE 4 Tx slots	19.91	20.03	20.18	21.50	16.91	17.03	17.18	18.50

GSM1800_Ant 31	Burst Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit
	512	661	810 <th>512</th> <th>661</th> <th>810 </th>		512	661	810	
TX Channel	512	661	810	512	661	810	512	661
Frequency (MHz)	1825.2	1830	1835.8	1825.2	1830	1835.8	1825.2	1830
GSM 1 Tx slot	30.06	30.16	30.15	30.50	21.06	21.16	21.15	21.50
GPRS/EDGE(GMSK) 1 Tx slot	30.06	30.15	30.14	30.50	21.06	21.15	21.14	21.50
GPRS/EDGE(GMSK) 2 Tx slots	27.44	27.58	27.55	29.00	21.44	21.58	21.55	22.00
GPRS/EDGE(GMSK) 3 Tx slots	25.50	25.63	25.62	26.50	21.24	21.37	21.36	22.24
GPRS/EDGE(GMSK) 4 Tx slots	23.48	23.58	23.57	25.00	20.48	20.58	20.57	22.00
EDGE 1 Tx slot	25.98	26.07	25.24	27.00	16.98	17.07	17.26	18.00
EDGE 2 Tx slots	24.37	24.46	24.58	25.00	18.37	18.46	18.58	19.00
EDGE 3 Tx slots	22.55	22.64	22.89	23.50	18.29	18.38	18.43	19.24
EDGE 4 Tx slots	20.55	20.62	20.61	21.50	17.55	17.62	17.61	18.50



Band 2_Ant 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 Frequency (MHz)										
20	QPSK	1	0	13.49	13.41	13.40	14.6	0		
20	QPSK	1	49	13.74	13.34	13.33				
20	QPSK	1	99	13.29	13.36	13.25				
20	QPSK	50	0	13.32	13.43	13.30				
20	QPSK	50	24	13.48	13.62	13.54				
20	QPSK	50	50	13.23	13.28	13.27				
20	QPSK	100	0	13.48	13.26	13.38	14.6	0		
20	16QAM	1	0	13.34	13.33	13.39				
20	16QAM	1	49	13.82	13.55	13.62				
20	16QAM	1	99	13.31	13.45	13.43				
20	16QAM	50	0	13.36	13.32	13.24				
20	16QAM	50	24	13.30	13.52	13.36				
20	16QAM	50	50	13.20	13.21	13.06	14.6	0		
20	16QAM	100	0	13.19	13.40	13.27				
20	16QAM	1	0	13.56	13.51	13.58				
20	64QAM	1	49	13.86	13.63	13.58				
20	64QAM	1	99	13.53	13.38	13.28				
20	64QAM	50	0	13.56	13.53	13.41				
20	64QAM	50	24	13.36	13.52	13.36	14.6	0		
20	64QAM	50	50	13.35	13.29	13.32				
20	64QAM	100	0	13.24	13.37	13.31				
Channel Frequency (MHz)										
15	QPSK	1	0	13.38	13.39	13.30			14.6	0
15	QPSK	1	37	13.61	13.79	13.67				
15	QPSK	1	74	13.22	13.27	13.21				
15	QPSK	36	0	13.25	13.39	13.21				
15	QPSK	36	36	13.41	13.27	13.42				
15	QPSK	36	72	13.12	13.26	13.17				
15	QPSK	75	0	13.38	13.54	13.29	14.6	0		
15	16QAM	1	0	13.31	13.21	13.21				
15	16QAM	1	37	13.56	13.48	13.53				
15	16QAM	1	74	13.24	13.37	13.36				
15	16QAM	36	0	13.30	13.24	13.13				
15	16QAM	36	20	13.18	13.45	13.27				
15	16QAM	36	36	13.10	13.18	13.04	14.6	0		
15	16QAM	75	0	13.08	13.30	13.20				
15	64QAM	1	0	13.47	13.43	13.53				
15	64QAM	1	37	13.58	13.60	13.52				
15	64QAM	1	74	13.48	13.27	13.24				
15	64QAM	36	0	13.51	13.48	13.32				
15	64QAM	36	20	13.28	13.45	13.30	14.6	0		
15	64QAM	36	36	13.28	13.23	13.29				
15	64QAM	75	0	13.18	13.31	13.21				
Channel Frequency (MHz)										
10	QPSK	1	0	13.42	13.33	13.31			14.6	0
10	QPSK	1	25	13.47	13.69	13.54				
10	QPSK	1	49	13.20	13.27	13.15				
10	QPSK	25	0	13.28	13.34	13.27				
10	QPSK	25	12	13.39	13.54	13.45				
10	QPSK	25	25	13.21	13.22	13.25				
10	QPSK	50	0	13.44	13.49	13.28	14.6	0		
10	16QAM	1	0	13.23	13.27	13.31				
10	16QAM	1	25	13.59	13.50	13.56				
10	16QAM	1	49	13.22	13.35	13.31				
10	16QAM	25	0	13.30	13.30	13.15				
10	16QAM	25	12	13.28	13.40	13.25				
10	16QAM	25	25	13.09	13.15	12.99	14.6	0		
10	16QAM	50	0	13.59	13.36	13.19				
10	64QAM	1	0	13.46	13.42	13.46				
10	64QAM	1	25	13.56	13.51	13.51				
10	64QAM	1	49	13.45	13.27	13.26				
10	64QAM	25	0	13.48	13.50	13.38				
10	64QAM	25	12	13.34	13.44	13.33	14.6	0		
10	64QAM	25	25	13.27	13.24	13.24				
10	64QAM	50	0	13.20	13.34	13.23				
Channel Frequency (MHz)										
5	QPSK	1	0	13.42	13.38	13.32			14.6	0
5	QPSK	1	12	13.44	13.70	13.46				
5	QPSK	1	24	13.26	13.28	13.21				
5	QPSK	12	0	13.20	13.38	13.19				
5	QPSK	12	7	13.41	13.51	13.48				
5	QPSK	12	13	13.17	13.18	13.16				
5	QPSK	25	0	13.38	13.54	13.26	14.6	0		
5	16QAM	1	0	13.26	13.25	13.37				
5	16QAM	1	12	13.53	13.46	13.51				
5	16QAM	1	24	13.28	13.39	13.40				
5	16QAM	12	0	13.29	13.20	13.17				
5	16QAM	12	7	13.22	13.43	13.27				
5	16QAM	12	13	13.16	13.11	13.00	14.6	0		
5	16QAM	25	0	13.15	13.37	13.24				
5	64QAM	1	0	13.44	13.43	13.50				
5	64QAM	1	12	13.61	13.56	13.50				
5	64QAM	1	24	13.42	13.29	13.23				
5	64QAM	12	0	13.52	13.41	13.37				
5	64QAM	12	7	13.28	13.48	13.26	14.6	0		
5	64QAM	12	13	13.23	13.27	13.25				
5	64QAM	25	0	13.18	13.32	13.29				
Channel Frequency (MHz)										
3	QPSK	1	0	13.41	13.29	13.31			14.6	0
3	QPSK	1	8	13.48	13.67	13.45				
3	QPSK	1	16	13.18	13.33	13.15				
3	QPSK	8	0	13.24	13.31	13.23				
3	QPSK	8	4	13.42	13.59	13.47				
3	QPSK	8	7	13.14	13.16	13.16				
3	QPSK	15	0	13.38	13.53	13.32	14.6	0		
3	16QAM	1	0	13.32	13.25	13.29				
3	16QAM	1	8	13.59	13.50	13.58				
3	16QAM	1	16	13.22	13.36	13.33				
3	16QAM	8	0	13.32	13.28	13.15				
3	16QAM	8	4	13.22	13.43	13.26				
3	16QAM	8	7	13.09	13.14	13.00	14.6	0		
3	16QAM	15	0	13.12	13.38	13.19				
3	64QAM	1	0	13.46	13.43	13.49				
3	64QAM	1	8	13.60	13.53	13.55				
3	64QAM	1	14	13.51	13.31	13.25				
3	64QAM	8	0	13.54	13.49	13.37				
3	64QAM	8	4	13.24	13.45	13.34	14.6	0		
3	64QAM	8	7	13.30	13.26	13.23				
3	64QAM	15	0	13.15	13.31	13.23				
Channel Frequency (MHz)										
1.4	QPSK	1	0	13.37	13.28	13.30			14.6	0
1.4	QPSK	1	3	13.48	13.69	13.48				
1.4	QPSK	1	5	13.17	13.29	13.19				
1.4	QPSK	3	0	13.26	13.36	13.18				
1.4	QPSK	3	1	13.37	13.56	13.44				
1.4	QPSK	3	3	13.18	13.22	13.23				
1.4	QPSK	6	0	13.46	13.53	13.27	14.6	0		
1.4	16QAM	1	0	13.29	13.30	13.33				
1.4	16QAM	1	3	13.58	13.48	13.59				
1.4	16QAM	1	5	13.29	13.33	13.33				
1.4	16QAM	3	0	13.34	13.25	13.14				
1.4	16QAM	3	1	13.22	13.40	13.28				
1.4	16QAM	3	3	13.16	13.14	13.06	14.6	0		
1.4	16QAM	6	0	13.14	13.34	13.22				
1.4	64QAM	1	0	13.49	13.41	13.46				
1.4	64QAM	1	3	13.58	13.59	13.55				
1.4	64QAM	1	5	13.51	13.31	13.17				
1.4	64QAM	3	0	13.53	13.47	13.29				
1.4	64QAM	3	1	13.26	13.46	13.25	14.6	0		
1.4	64QAM	3	3	13.32	13.17	13.28				
1.4	64QAM	6	0	13.15	13.27	13.28				

Band 2_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)										
20	QPSK	1	0	23.1	23.06	23.04	24	0		
20	QPSK	1	49	23.14	23.48	23.04				
20	QPSK	1	99	23.1	23.09	23.04				
20	QPSK	50	0	22.27	22.35	22.25				
20	QPSK	50	24	22.33	22.41	22.31				
20	QPSK	50	50	22.27	22.17	22.31				
20	QPSK	100	0	22.26	22.35	22.3	23	1		
20	16QAM	1	0	22.43	22.69	22.77				
20	16QAM	1	49	22.71	22.85	22.84				
20	16QAM	1	99	22.4	22.58	22.55				
20	16QAM	50	0	21.19	21.45	21.23				
20	16QAM	50	24	21.38	21.44	21.34				
20	16QAM	50	50	21.39	21.23	21.21	22	2		
20	16QAM	100	0	21.29	21.27	21.28				
20	64QAM	1	0	21.27	21.29	21.24				
20	64QAM	1	49	21.43	21.47	21.58				
20	64QAM	1	99	21.41	21.52	21.45				
20	64QAM	50	0	20.17	20.45	20.25				
20	64QAM	50	24	20.45	20.44	20.44	21	3		
20	64QAM	50	50	20.41	20.26	20.24				
20	64QAM	100	0	20.45	20.31	20.2				
Channel Frequency (MHz)										
15	QPSK	1	0	23.09	22.98	22.96			24	0
15	QPSK	1	37	23.35	23.38	23.38				
15	QPSK	1	74	22.95	23.05	22.96				
15	QPSK	36	0	22.15	22.22	22.11				
15	QPSK	36	36	22.37	22.38	22.41				
15	QPSK	36	72	22.27	22.18	22.18				
15	QPSK	75	0	22.26	22.35					



Band 4_Ant 13

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).

Band 4_Ant 31

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).



Band 5_Ant 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								
Frequency (MHz)								
10	QPSK	1	0	20.56	20.80	20.57	22	0
10	QPSK	1	0	20.62	20.86	20.63		
10	QPSK	1	49	20.66	20.88	20.47	22	0
10	QPSK	25	0	20.55	20.84	20.72		
10	QPSK	25	12	20.57	20.81	20.72	22	0
10	QPSK	25	25	20.48	20.83	20.52		
10	QPSK	50	0	20.84	20.75	20.71	22	0
10	16QAM	1	0	20.92	20.79	20.69		
10	16QAM	1	25	20.70	20.88	20.80	22	0
10	16QAM	1	49	20.89	20.86	20.72		
10	16QAM	25	0	20.54	20.81	20.81	22	0
10	16QAM	25	12	20.78	20.74	20.81		
10	16QAM	25	25	20.37	20.50	20.55	22	0
10	16QAM	50	0	20.60	20.55	20.46		
10	64QAM	1	0	20.77	20.79	20.77	22	0
10	64QAM	1	25	20.77	20.77	20.76		
10	64QAM	1	49	20.82	20.78	20.81	21.5	0.5
10	64QAM	25	0	20.17	20.18	20.10		
10	64QAM	25	12	20.22	20.38	20.40	21.5	0.5
10	64QAM	25	25	20.02	20.16	20.11		
10	64QAM	50	0	20.15	20.09	20.08	21.5	0.5
Channel								
Frequency (MHz)								
5	QPSK	1	0	20.44	20.70	20.50	22	0
5	QPSK	1	12	20.63	20.75	20.60		
5	QPSK	1	24	20.56	20.86	20.52	22	0
5	QPSK	12	0	20.48	20.61	20.61		
5	QPSK	12	7	20.56	20.62	20.62	22	0
5	QPSK	12	13	20.45	20.58	20.41		
5	QPSK	25	0	20.55	20.72	20.59	22	0
5	16QAM	1	0	20.56	20.67	20.65		
5	16QAM	1	12	20.61	20.63	20.71	22	0
5	16QAM	1	24	20.64	20.59	20.63		
5	16QAM	12	0	20.47	20.40	20.46	22	0
5	16QAM	12	7	20.69	20.68	20.72		
5	16QAM	12	13	20.32	20.38	20.43	22	0
5	16QAM	25	0	20.37	20.48	20.45		
5	64QAM	1	0	20.73	20.72	20.87	22	0
5	64QAM	1	12	20.74	20.67	20.73		
5	64QAM	1	24	20.75	20.76	20.75	21.5	0.5
5	64QAM	12	0	20.13	20.14	19.99		
5	64QAM	12	7	20.14	20.29	20.16	21.5	0.5
5	64QAM	12	13	19.92	20.05	19.99		
5	64QAM	25	0	20.03	20.05	20.05	21.5	0.5
Channel								
Frequency (MHz)								
3	QPSK	1	0	20.44	20.75	20.46	22	0
3	QPSK	1	8	20.60	20.80	20.62		
3	QPSK	1	14	20.57	20.65	20.38	22	0
3	QPSK	8	0	20.83	20.83	20.68		
3	QPSK	8	4	20.80	20.71	20.86	22	0
3	QPSK	8	7	20.40	20.56	20.44		
3	QPSK	15	0	20.56	20.70	20.67	22	0
3	16QAM	1	0	20.52	20.76	20.60		
3	16QAM	1	8	20.67	20.63	20.76	22	0
3	16QAM	1	14	20.64	20.54	20.64		
3	16QAM	8	0	20.52	20.39	20.51	22	0
3	16QAM	8	4	20.73	20.63	20.69		
3	16QAM	8	7	20.33	20.38	20.47	22	0
3	16QAM	15	0	20.56	20.46	20.39		
3	64QAM	1	0	20.72	20.75	20.73	22	0
3	64QAM	1	8	20.73	20.72	20.72		
3	64QAM	1	14	20.80	20.75	20.75	21.5	0.5
3	64QAM	8	0	20.12	20.08	20.08		
3	64QAM	8	0	20.17	20.26	20.17	21.5	0.5
3	64QAM	8	4	20.17	20.26	20.17		
3	64QAM	8	7	19.97	20.08	20.03	21.5	0.5
3	64QAM	15	0	20.04	20.05	19.98		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	20.54	20.75	20.51	22	0
1.4	QPSK	1	3	20.67	20.77	20.55		
1.4	QPSK	1	5	20.60	20.57	20.40	22	0
1.4	QPSK	3	0	20.47	20.50	20.67		
1.4	QPSK	3	1	20.56	20.71	20.65	22	0
1.4	QPSK	3	3	20.45	20.53	20.46		
1.4	QPSK	6	0	20.59	20.64	20.62	22	0
1.4	16QAM	1	0	20.56	20.70	20.62		
1.4	16QAM	1	3	20.56	20.63	20.73	22	0
1.4	16QAM	1	5	20.57	20.59	20.70		
1.4	16QAM	3	0	20.43	20.48	20.46	22	0
1.4	16QAM	3	1	20.76	20.63	20.70		
1.4	16QAM	3	3	20.29	20.44	20.43	22	0
1.4	16QAM	6	0	20.54	20.53	20.41		
1.4	64QAM	1	0	20.74	20.67	20.67	22	0
1.4	64QAM	1	3	20.70	20.74	20.71		
1.4	64QAM	1	5	20.79	20.71	20.73	22	0
1.4	64QAM	3	0	20.72	20.64	20.63		
1.4	64QAM	3	1	20.72	20.71	20.74	21.5	0.5
1.4	64QAM	3	3	20.78	20.74	20.72		
1.4	64QAM	15	0	20.02	20.04	20.01	21.5	0.5
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.92	23.05	22.83	24	0
1.4	QPSK	1	3	22.83	23.05	22.84		
1.4	QPSK	1	5	22.87	22.74	22.65	24	0
1.4	QPSK	3	0	22.95	22.75	22.75		
1.4	QPSK	3	1	22.85	22.82	22.72	24	0
1.4	QPSK	3	3	22.82	22.84	22.73		
1.4	QPSK	6	0	21.89	21.84	21.50	23	1
1.4	16QAM	1	0	21.83	21.99	22.11		
1.4	16QAM	1	3	21.95	22.05	22.04	23	1
1.4	16QAM	1	5	21.90	22.08	21.88		
1.4	16QAM	3	0	21.88	22.07	21.81	23	1
1.4	16QAM	3	1	21.94	21.94	21.85		
1.4	16QAM	3	3	21.88	22.08	21.85	22	2
1.4	16QAM	6	0	20.83	20.88	20.74		
1.4	64QAM	1	0	20.91	21.13	21.23	22	2
1.4	64QAM	1	3	21.03	21.02	20.75		
1.4	64QAM	1	5	21.00	21.04	20.82	22	2
1.4	64QAM	3	0	20.98	20.98	20.75		
1.4	64QAM	3	1	20.81	20.92	20.88	21	3
1.4	64QAM	3	3	21.05	20.97	20.80		
1.4	64QAM	15	0	19.86	19.85	19.65	21	3
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.78	22.71	22.82	24	0
5	QPSK	1	12	22.86	22.81	22.81		
5	QPSK	1	24	22.84	22.80	22.75	23	1
5	QPSK	12	0	21.81	21.88	21.77		
5	QPSK	12	7	21.87	22.00	21.88	23	1
5	QPSK	12	13	21.93	21.81	21.60		
5	QPSK	25	0	21.80	21.86	21.82	23	1
5	16QAM	1	0	21.83	22.05	21.85		
5	16QAM	1	12	22.01	22.08	22.10	23	1
5	16QAM	1	24	22.03	21.88	22.08		
5	16QAM	12	0	20.91	20.80	20.74	22	2
5	16QAM	12	7	20.86	20.89	20.92		
5	16QAM	12	13	20.80	20.80	20.67	22	2
5	16QAM	25	0	20.85	20.83	20.78		
5	64QAM	1	0	20.95	21.19	21.30	22	2
5	64QAM	1	12	21.27	21.34	21.07		
5	64QAM	1	24	20.83	20.82	20.81	21	3
5	64QAM	12	0	19.85	20.04	19.88		
5	64QAM	12	7	19.88	19.92	19.82	21	3
5	64QAM	12	13	19.82	19.88	19.69		
5	64QAM	25	0	19.81	19.88	19.69	21	3
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.85	22.73	22.85	24	0
3	QPSK	1	8	22.90	22.97	22.89		
3	QPSK	1	14	22.88	22.78	22.60	23	1
3	QPSK	8	0	21.77	21.80	21.79		
3	QPSK	8	4	21.89	22.10	21.79	23	1
3	QPSK	8	7	21.91	21.83	21.85		
3	QPSK	15	0	21.86	22.04	21.80	23	1
3	16QAM	1	0	21.84	22.05	22.04		
3	16QAM	1	8	22.08	22.15	22.08	23	1
3	16QAM	1	14	22.15	21.88	22.15		
3	16QAM	8	0	21.04	20.99	20.74	22	2
3	16QAM	8	4	20.99	20.93	20.83		
3	16QAM	8	7	20.74	20.78	20.59	22	2
3	16QAM	15	0	20.88	20.85	20.69		
3	64QAM	1	0	20.95	21.23	21.29	22	2
3	64QAM	1	8	21.41	21.33	21.04		
3	64QAM	1	14					



Band 7_Ant 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								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	11.71	11.85	11.53	12.5	0
20	QPSK	1	49	11.71	11.85	11.53		
20	QPSK	1	99	11.70	11.82	11.61		
20	QPSK	50	0	11.83	11.83	11.88		
20	QPSK	50	24	11.83	11.85	11.84		
20	QPSK	50	50	11.83	11.84	11.86	12.5	0
20	QPSK	100	0	11.82	11.83	11.71		
20	16QAM	1	0	11.85	11.83	11.85		
20	16QAM	1	49	11.84	11.78	11.79	12.5	0
20	16QAM	1	99	11.77	11.85	11.74		
20	16QAM	50	0	11.77	11.78	11.83		
20	16QAM	50	24	11.81	11.81	11.80	12.5	0
20	16QAM	50	50	11.76	11.70	11.80		
20	16QAM	100	0	11.77	11.78	11.89		
20	64QAM	1	0	11.80	11.68	11.85		
20	64QAM	1	49	11.76	11.85	11.77	12.5	0
20	64QAM	1	99	11.83	11.81	11.84		
20	64QAM	50	0	11.84	11.78	11.83		
20	64QAM	50	24	11.82	11.76	11.81		
20	64QAM	50	50	11.77	11.83	11.83	12.5	0
20	64QAM	100	0	11.80	11.84	11.77		
Channel				26025	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				26025	2535	26025		
15	QPSK	1	0	11.65	11.60	11.47	12.5	0
15	QPSK	1	37	11.74	11.84	11.73		
15	QPSK	1	74	11.66	11.75	11.65		
15	QPSK	36	0	11.72	11.77	11.82	12.5	0
15	QPSK	36	20	11.80	11.77	11.79		
15	QPSK	36	39	11.80	11.82	11.59		
15	QPSK	75	0	11.79	11.74	11.60	12.5	0
15	16QAM	1	0	11.75	11.78	11.78		
15	16QAM	1	37	11.73	11.68	11.62	12.0	0
15	16QAM	1	74	11.74	11.82	11.84		
15	16QAM	36	0	11.65	11.70	11.57		
15	16QAM	36	20	11.78	11.72	11.75	12.5	0
15	16QAM	36	39	11.72	11.68	11.89		
15	16QAM	75	0	11.67	11.68	11.58		
15	64QAM	1	0	11.72	11.62	11.75	12.5	0
15	64QAM	1	37	11.84	11.83	11.88		
15	64QAM	1	74	11.73	11.69	11.71		
15	64QAM	36	0	11.77	11.74	11.56		
15	64QAM	36	20	11.73	11.73	11.71	12.5	0
15	64QAM	36	39	11.67	11.72	11.79		
15	64QAM	75	0	11.78	11.80	11.69		
Channel				26030	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				26030	2535	26030		
10	QPSK	1	0	11.61	11.57	11.42	12.5	0
10	QPSK	1	25	11.74	11.80	11.73		
10	QPSK	1	49	11.58	11.75	11.57		
10	QPSK	25	0	11.78	11.80	11.65	12.5	0
10	QPSK	25	12	11.73	11.77	11.88		
10	QPSK	25	25	11.78	11.79	11.54		
10	QPSK	50	0	11.77	11.81	11.63	12.5	0
10	16QAM	1	0	11.76	11.71	11.70		
10	16QAM	1	25	11.72	11.76	11.69	12.5	0
10	16QAM	1	49	11.65	11.61	11.64		
10	16QAM	25	0	11.71	11.75	11.81	12.5	0
10	16QAM	25	12	11.77	11.73	11.77		
10	16QAM	25	25	11.73	11.66	11.72		
10	16QAM	50	0	11.65	11.72	11.67		
10	16QAM	1	0	11.73	11.63	11.63	12.5	0
10	64QAM	1	25	11.67	11.81	11.68		
10	64QAM	1	49	11.76	11.69	11.78		
10	64QAM	25	0	11.79	11.68	11.63	12.5	0
10	64QAM	25	12	11.80	11.68	11.79		
10	64QAM	25	25	11.68	11.74	11.75		
10	64QAM	50	0	11.75	11.73	11.70	12.5	0
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20775	2535	20775		
5	QPSK	1	0	11.60	11.59	11.51	12.5	0
5	QPSK	1	12	11.75	11.84	11.71		
5	QPSK	1	24	11.64	11.74	11.55		
5	QPSK	12	0	11.72	11.72	11.56	12.5	0
5	QPSK	12	7	11.77	11.75	11.78		
5	QPSK	12	13	11.72	11.78	11.58		
5	QPSK	25	0	11.79	11.75	11.62	12.5	0
5	16QAM	1	0	11.78	11.78	11.74		
5	16QAM	1	12	11.76	11.78	11.70	12.5	0
5	16QAM	1	24	11.69	11.58	11.72		
5	16QAM	12	0	11.75	11.74	11.59		
5	16QAM	12	7	11.73	11.72	11.74	12.5	0
5	16QAM	12	13	11.65	11.63	11.77		
5	16QAM	25	0	11.74	11.67	11.64		
5	64QAM	1	0	11.69	11.67	11.60	12.5	0
5	64QAM	1	12	11.66	11.77	11.74		
5	64QAM	1	24	11.77	11.75	11.78		
5	64QAM	12	0	11.72	11.66	11.61	12.5	0
5	64QAM	12	7	11.78	11.74	11.71		
5	64QAM	12	13	11.71	11.74	11.72		
5	64QAM	25	0	11.71	11.74	11.75	12.5	0

Band 7_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.10	23.07	23.02	24	0
20	QPSK	1	49	23.11	23.10	23.11		
20	QPSK	1	99	23.11	23.11	23.07		
20	QPSK	50	0	21.92	22.05	21.88	23	1
20	QPSK	50	24	21.92	22.11	22.01		
20	QPSK	50	50	22.03	22.05	22.00		
20	QPSK	100	0	22.02	22.09	22.08		
20	16QAM	1	0	22.15	22.46	22.49		
20	16QAM	1	49	22.39	22.47	22.27	23	1
20	16QAM	1	99	22.22	22.34	22.16		
20	16QAM	50	0	21.20	21.38	21.17		
20	16QAM	50	24	21.35	21.48	21.38	22	2
20	16QAM	50	50	21.32	21.39	21.11		
20	16QAM	100	0	21.19	21.41	21.30		
20	64QAM	1	0	21.46	21.27	21.27		
20	64QAM	1	49	21.13	21.39	21.11	22	2
20	64QAM	1	99	21.50	21.37	21.27		
20	64QAM	50	0	20.26	20.30	20.18		
20	64QAM	50	24	20.31	20.40	20.25		
20	64QAM	50	50	20.35	20.36	20.15	21	3
20	64QAM	100	0	20.28	20.43	20.13		
Channel				25075	2535	25075	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				25075	2535	25075		
15	QPSK	1	0	23.08	23.02	22.80	24	0
15	QPSK	1	37	23.09	23.08	23.08		
15	QPSK	1	74	23.08	23.08	23.01		
15	QPSK	36	0	21.87	21.99	21.83	23	1
15	QPSK	36	20	21.95	21.99	21.98		
15	QPSK	36	39	21.91	21.97	21.88		
15	QPSK	75	0	21.80	22.67	21.99		
15	16QAM	1	0	22.07	22.40	22.47		
15	16QAM	1	37	22.36	22.40	22.15	23	1
15	16QAM	1	74	22.11	22.32	22.11		
15	16QAM	36	0	21.98	21.98	21.15		
15	16QAM	36	20	21.31	21.45	21.28	22	2
15	16QAM	36	39	21.30	21.31	21.04		
15	16QAM	75	0	21.30	21.30	21.07		
15	64QAM	1	0	21.41	21.25	21.24	22	2
15	64QAM	1	37	21.02	21.29	21.04		
15	64QAM	1	74	21.47	21.34	21.22		
15	64QAM	36	0	20.22	20.25	20.11		
15	64QAM	36	20	20.21	20.31	20.18	21	3
15	64QAM	36	39	20.24	20.24	20.14		
15	64QAM	75	0	20.22	20.31	20.09		
Channel				26030	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				26030	2535	26030		
10	QPSK	1	0	23.00	22.99	22.91	24	0
10	QPSK	1	25	23.05	23.05	23.04		
10	QPSK	1	49	23.06	23.00	22.99		
10	QPSK	25	0	21.86	21.97	21.82	23	1
10	QPSK	25	12	21.94	22.09	21.94		
10	QPSK	25	25	21.91				



Band 12_Ant 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								
Frequency (MHz)								
10	QPSK	1	0	22.80	22.72	22.84	24	0
10	QPSK	1	25	22.80	22.72	22.84		
10	QPSK	1	49	22.83	22.85	22.89		
10	QPSK	25	0	21.86	21.83	21.80		
10	QPSK	25	12	21.86	21.83	21.80		
10	QPSK	25	25	21.80	21.87	21.83		
10	QPSK	50	0	21.79	21.98	21.95		
10	16QAM	1	0	21.74	22.07	22.08		
10	16QAM	1	25	22.11	22.11	22.57		
10	16QAM	1	49	22.92	22.93	22.12		
10	16QAM	25	0	20.72	20.98	20.84	22	2
10	16QAM	25	12	21.00	20.92	20.94		
10	16QAM	25	25	20.96	20.92	20.79		
10	16QAM	50	0	20.84	20.88	20.90		
10	16QAM	1	0	20.86	21.22	21.22		
10	64QAM	1	25	21.37	21.40	21.35		
10	64QAM	1	49	21.33	21.14	20.96		
10	64QAM	25	0	19.82	19.93	19.86		
10	64QAM	25	12	20.10	20.06	19.99		
10	64QAM	25	25	19.99	19.94	19.94		
10	64QAM	50	0	19.95	19.94	20.00		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.73	22.64	22.76	24	0
5	QPSK	1	12	22.63	22.66	22.67		
5	QPSK	1	24	22.99	22.71	22.71		
5	QPSK	12	0	21.54	21.74	21.85		
5	QPSK	12	7	21.86	21.74	21.85		
5	QPSK	12	13	21.69	21.84	21.73		
5	QPSK	25	0	21.71	21.98	21.85		
5	16QAM	1	0	21.72	22.92	22.99		
5	16QAM	1	12	21.97	22.08	22.45		
5	16QAM	1	24	22.41	22.41	22.07		
5	16QAM	12	0	20.66	20.63	20.71	22	2
5	16QAM	12	7	20.91	20.92	20.79		
5	16QAM	12	13	20.90	20.92	20.86		
5	16QAM	25	0	20.81	20.78	20.83		
5	64QAM	1	0	20.84	21.10	21.12		
5	64QAM	1	12	21.28	21.27	21.33		
5	64QAM	1	24	21.31	21.09	20.90		
5	64QAM	12	0	19.82	19.80	19.84		
5	64QAM	12	7	19.97	19.96	19.88		
5	64QAM	12	13	19.97	19.89	19.80		
5	64QAM	25	0	19.83	19.89	19.85		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.77	22.62	22.78	24	0
3	QPSK	1	8	22.91	22.58	22.78		
3	QPSK	1	14	22.78	22.75	22.80		
3	QPSK	8	0	21.83	21.80	21.74		
3	QPSK	8	4	21.85	21.75	21.75		
3	QPSK	8	7	21.97	21.82	21.74		
3	QPSK	15	0	21.78	21.85	21.90		
3	16QAM	1	0	21.70	22.28	22.04		
3	16QAM	1	8	21.96	22.06	22.54		
3	16QAM	1	14	22.46	22.38	22.08		
3	16QAM	8	0	20.57	20.80	20.72	22	2
3	16QAM	8	4	20.67	20.81	20.90		
3	16QAM	8	7	20.94	20.88	20.79		
3	16QAM	15	0	20.82	20.82	20.90		
3	64QAM	1	0	20.80	21.16	21.13		
3	64QAM	1	8	21.37	21.30	21.23		
3	64QAM	1	14	21.33	21.02	20.84		
3	64QAM	8	0	19.87	19.88	19.83		
3	64QAM	8	4	20.04	19.94	19.85		
3	64QAM	8	7	19.96	19.89	19.84		
3	64QAM	15	0	19.98	19.93	19.90		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.70	22.74	22.81	24	0
1.4	QPSK	1	3	22.80	22.81	22.85		
1.4	QPSK	1	5	22.80	22.85	22.72		
1.4	QPSK	3	0	22.79	22.82	22.71		
1.4	QPSK	3	1	22.69	22.83	22.74		
1.4	QPSK	3	3	22.81	22.82	22.70		
1.4	QPSK	6	0	21.82	21.87	21.88		
1.4	16QAM	1	0	22.27	21.89	21.92		
1.4	16QAM	1	3	22.16	22.18	21.95		
1.4	16QAM	1	5	21.94	21.97	21.87		
1.4	16QAM	3	0	21.70	21.77	21.78	23	1
1.4	16QAM	3	1	21.83	21.83	21.91		
1.4	16QAM	3	3	21.84	21.73	21.92		
1.4	16QAM	6	0	21.07	21.05	20.99		
1.4	64QAM	1	0	21.05	21.03	20.85		
1.4	64QAM	1	3	21.24	20.89	20.84		
1.4	64QAM	1	5	20.90	21.05	21.19		
1.4	64QAM	3	0	20.95	21.03	21.24		
1.4	64QAM	3	1	21.10	20.76	21.13		
1.4	64QAM	3	3	21.07	21.12	20.99		
1.4	64QAM	15	0	19.96	19.95	19.94		

Band 12_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.71	22.81	22.85	24	0
10	QPSK	1	25	22.80	22.82	22.82		
10	QPSK	1	49	22.83	22.82	22.82		
10	QPSK	25	0	21.53	21.85	21.84		
10	QPSK	25	12	21.53	21.85	21.84		
10	QPSK	25	25	21.73	21.88	21.68		
10	QPSK	50	0	21.86	21.75	21.73		
10	16QAM	1	0	22.08	22.17	22.04		
10	16QAM	1	25	22.34	22.42	22.01		
10	16QAM	1	49	22.04	22.29	22.07		
10	16QAM	25	0	20.70	20.88	20.82	23	1
10	16QAM	25	12	20.86	20.85	20.79		
10	16QAM	25	25	20.94	20.84	20.77		
10	16QAM	50	0	20.71	20.83	20.78		
10	64QAM	1	0	20.92	21.00	21.09		
10	64QAM	1	25	21.06	20.91	20.91		
10	64QAM	1	49	20.93	20.84	20.82		
10	64QAM	25	0	19.88	19.79	19.75		
10	64QAM	25	12	19.91	19.86	19.81		
10	64QAM	25	25	19.88	19.90	19.93		
10	64QAM	50	0	19.74	19.80	19.86		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.57	22.80	22.58	24	0
5	QPSK	1	12	22.76	22.83	22.83		
5	QPSK	1	24	22.73	22.81	22.71		
5	QPSK	12	0	21.42	21.84	21.84		
5	QPSK	12	7	21.80	21.69	21.78		
5	QPSK	12	13	21.81	21.83	21.51		
5	QPSK	25	0	21.53	21.72	21.71		
5	16QAM	1	0	21.96	22.05	22.06		
5	16QAM	1	12	22.24	22.41	21.95		
5	16QAM	1	24	21.95	22.23	22.06		
5	16QAM	12	0	20.58	20.61	20.68	22	2
5	16QAM	12	7	20.78	20.73	20.74		
5	16QAM	12	13	20.75	20.78	20.72		
5	16QAM	25	0	20.17	20.17	20.41		
5	64QAM	1	0	20.81	20.80	21.02		
5	64QAM	1	12	20.92	20.84	20.77		
5	64QAM	1	24	20.98	20.78	20.77		
5	64QAM	12	0	19.55	19.69	19.70		
5	64QAM	12	7	19.77	19.81	19.78		
5	64QAM	12	13	19.79	19.80	19.80		
5	64QAM	25	0	19.74	19.71	19.73		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.69	22.82	22.82	24	0
3	QPSK	1	8	22.85	22.87	22.85		
3	QPSK	1	14	22.81	22.78	22.77		
3	QPSK	8	0	21.41	21.83	21.83		
3	QPSK	8	4	21.88	21.72	21.88		
3	QPSK	8	7	21.61	21.68	21.61		
3	QPSK	15	0	21.64	21.86	21.62		
3	16QAM	1	0	22.01	22.11	21.96		
3	16QAM	1	8	22.16	22.31	21.98		
3	16QAM	1	14	21.89	22.23	21.88		
3	16QAM	8	0	20.55	20.84	20.82	22	2
3	16QAM	8	4	20.74	20.84	20.69		
3	16QAM	8	7	20.83	20.71	20.65		
3	16QAM	15	0	20.69	20.63	20.64		
3	64QAM	1	0	20.82	20.95	21.05		
3	64QAM	1	8	21.00	20.90	20.86		
3	64QAM	1	14	20.85	20.82	20.81		
3	64QAM	8	0	19.70	19.70	19.71		
3	64QAM	8	4	19.87	19.77	19.80		
3	64QAM	8	7	19.82	19.85	19.85		
3	64QAM	15	0	19.59	19.80	19.76		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.70	22.57	22.52	24	0
1.4	QPSK	1	3	22.73	22.80	22.82		
1.4	QPSK	1	5	22.70	22.68	22.73		
1.4	QPSK	3	0	22.80	22.72	22.71		
1.4	QPSK	3	1	22.82	22.82	22.72		
1.4	QPSK	3	3	22.76	22.80	22.68		
1.4	QPSK	6	0	21.70	21.81	21.84		
1.4	16QAM	1	0	22.00	22.05	21.91		
1.4	16QAM	1	3	22.28	22.38	21.98		
1.4	16QAM	1	5	22.02	22.29	22.04		
1.4	16QAM	3						



Band 13_Ant 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 23200								
Frequency (MHz)								
10	QPSK	1	0	23.01	23.01	23.01	24	0
10	QPSK	1	25	22.83	22.83	22.83		
10	QPSK	1	49	22.98	22.98	22.98		
10	QPSK	25	0	21.80	21.80	21.80	23	1
10	QPSK	25	12	21.53	21.53	21.53		
10	QPSK	25	25	21.89	21.89	21.89		
10	QPSK	50	0	21.55	21.55	21.55	23	1
10	16QAM	1	0	22.25	22.25	22.25		
10	16QAM	1	25	22.37	22.37	22.37		
10	16QAM	1	49	22.43	22.43	22.43	22	2
10	16QAM	25	0	20.98	20.98	20.98		
10	16QAM	25	12	21.15	21.15	21.15		
10	16QAM	25	25	20.98	20.98	20.98	22	2
10	16QAM	50	0	20.98	20.98	20.98		
10	64QAM	1	0	21.15	21.15	21.15		
10	64QAM	1	25	21.08	21.08	21.08	22	2
10	64QAM	1	49	21.32	21.32	21.32		
10	64QAM	25	0	19.90	19.90	19.90		
10	64QAM	25	12	20.08	20.08	20.08	21	3
10	64QAM	25	25	19.94	19.94	19.94		
10	64QAM	50	0	19.95	19.95	19.95		
Channel 23250								
Frequency (MHz)								
5	QPSK	1	0	22.99	22.96	22.96	24	0
5	QPSK	1	12	22.86	22.80	22.83		
5	QPSK	1	24	22.97	22.83	22.96		
5	QPSK	12	0	21.79	21.72	21.76	23	1
5	QPSK	12	7	21.96	21.97	21.95		
5	QPSK	12	13	21.84	21.76	21.89		
5	QPSK	25	0	21.88	21.77	21.84	23	1
5	16QAM	1	0	22.21	22.20	22.12		
5	16QAM	1	12	22.37	22.29	22.27		
5	16QAM	1	24	22.32	22.28	22.37	22	2
5	16QAM	12	0	20.72	20.84	20.73		
5	16QAM	12	7	21.01	21.11	21.10		
5	16QAM	12	13	20.88	20.83	20.88	22	2
5	16QAM	25	0	20.90	20.88	20.95		
5	64QAM	1	0	21.00	21.10	21.07		
5	64QAM	1	12	21.06	21.04	21.06	22	2
5	64QAM	1	24	21.22	21.18	21.24		
5	64QAM	12	0	19.90	19.82	19.89		
5	64QAM	12	7	20.02	19.97	20.02	21	3
5	64QAM	12	13	19.91	19.85	19.94		
5	64QAM	25	0	19.80	19.80	19.75		

Band 13_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel 23200								
Frequency (MHz)								
10	QPSK	1	0	22.83	22.83	22.83	24	0
10	QPSK	1	25	22.88	22.88	22.88		
10	QPSK	1	49	22.85	22.85	22.85		
10	QPSK	25	0	21.67	21.67	21.67	23	1
10	QPSK	25	12	21.07	21.07	21.07		
10	QPSK	25	25	21.74	21.74	21.74		
10	QPSK	50	0	21.76	21.76	21.76	23	1
10	16QAM	1	0	21.98	21.98	21.98		
10	16QAM	1	25	22.01	22.01	22.01		
10	16QAM	1	49	21.95	21.95	21.95	22	2
10	16QAM	25	0	20.75	20.75	20.75		
10	16QAM	25	12	20.79	20.79	20.79		
10	16QAM	25	25	20.68	20.68	20.68	22	2
10	16QAM	50	0	20.78	20.78	20.78		
10	64QAM	1	0	21.06	21.06	21.06		
10	64QAM	1	25	21.16	21.16	21.16	22	2
10	64QAM	1	49	20.94	20.94	20.94		
10	64QAM	25	0	19.85	19.85	19.85		
10	64QAM	25	12	19.88	19.88	19.88	21	3
10	64QAM	25	25	19.73	19.73	19.73		
10	64QAM	50	0	19.76	19.76	19.76		
Channel 23250								
Frequency (MHz)								
5	QPSK	1	0	22.82	22.73	22.83	24	0
5	QPSK	1	12	22.81	22.85	22.74		
5	QPSK	1	24	22.72	22.80	22.79		
5	QPSK	12	0	21.53	21.81	21.80	23	1
5	QPSK	12	7	21.85	21.87	21.85		
5	QPSK	12	13	21.05	21.73	21.67		
5	QPSK	25	0	21.75	21.65	21.82	23	1
5	16QAM	1	0	21.93	21.85	21.89		
5	16QAM	1	12	21.94	21.87	21.91		
5	16QAM	1	24	21.91	21.89	21.89	22	2
5	16QAM	12	0	20.70	20.66	20.69		
5	16QAM	12	7	20.84	20.98	20.76		
5	16QAM	12	13	20.57	20.67	20.58	22	2
5	16QAM	25	0	20.77	20.75	20.75		
5	64QAM	1	0	21.04	21.02	21.05		
5	64QAM	1	12	21.16	21.06	21.16	22	2
5	64QAM	1	24	20.85	20.91	20.82		
5	64QAM	12	0	19.70	19.71	19.79		
5	64QAM	12	7	19.85	19.74	19.75	21	3
5	64QAM	12	13	19.72	19.69	19.64		
5	64QAM	25	0	19.67	19.66	19.75		



Band 17_Ant 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								
Frequency (MHz)				2370	2390	2390		
10	QPSK	1	0	22.73	22.85	22.86	24	0
10	QPSK	1	25	22.83	22.95	22.96		
10	QPSK	1	49	22.86	22.86	22.93		
10	QPSK	25	0	21.80	21.77	21.72	23	1
10	QPSK	25	12	21.83	21.80	21.83		
10	QPSK	25	25	21.81	21.84	21.76		
10	QPSK	50	0	21.81	21.86	21.78	23	1
10	16QAM	1	0	22.08	22.04	22.35		
10	16QAM	1	25	22.49	22.05	22.05		
10	16QAM	1	49	22.35	22.05	22.23	22	2
10	16QAM	25	0	20.86	20.82	20.77		
10	16QAM	25	12	20.88	20.84	20.87		
10	16QAM	25	25	21.00	20.84	20.84	22	2
10	16QAM	50	0	20.81	20.83	20.83		
10	64QAM	1	0	21.19	21.16	21.14		
10	64QAM	1	25	21.39	21.27	21.21	22	2
10	64QAM	1	49	21.12	21.16	21.09		
10	64QAM	25	0	19.94	19.88	19.89		
10	64QAM	25	12	20.00	19.82	19.98	21	3
10	64QAM	25	25	19.95	19.88	19.78		
10	64QAM	50	0	19.86	19.88	19.83		
Channel				2370	2390	2390	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.58	22.72	22.86	24	0
5	QPSK	1	12	22.87	22.86	22.86		
5	QPSK	1	24	22.74	22.76	22.85		
5	QPSK	12	0	21.74	21.7	21.67	23	1
5	QPSK	12	7	21.75	21.78	21.8		
5	QPSK	12	13	21.69	21.81	21.73		
5	QPSK	25	0	21.76	21.82	21.65	23	1
5	16QAM	1	0	22.04	22.01	22.28		
5	16QAM	1	12	22.48	22.05	22.1		
5	16QAM	1	24	22.22	22.03	22.14	22	2
5	16QAM	12	0	20.79	20.69	20.74		
5	16QAM	12	7	20.79	20.53	20.73		
5	16QAM	12	13	20.91	20.72	20.82	22	2
5	16QAM	25	0	20.76	20.68	20.68		
5	64QAM	1	0	21.11	21.09	21.09		
5	64QAM	1	12	21.32	21.18	21.07	22	2
5	64QAM	1	24	21.06	21.12	21.06		
5	64QAM	12	0	19.87	19.73	19.76		
5	64QAM	12	7	19.98	19.86	19.84	21	3
5	64QAM	12	13	19.8	19.77	19.71		
5	64QAM	25	0	19.71	19.75	19.79		

Band 17_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				706	710	711		
10	QPSK	1	0	22.69	22.72	22.62	24	0
10	QPSK	1	25	22.81	22.88	22.82		
10	QPSK	1	49	22.72	22.70	22.75		
10	QPSK	25	0	21.84	21.73	21.59	23	1
10	QPSK	25	12	21.73	21.78	21.77		
10	QPSK	25	25	21.89	21.74	21.64		
10	QPSK	50	0	21.70	21.72	21.66	23	1
10	16QAM	1	0	21.80	22.07	22.15		
10	16QAM	1	25	21.76	22.04	21.89		
10	16QAM	1	49	22.10	22.09	21.91	22	2
10	16QAM	25	0	20.78	20.73	20.73		
10	16QAM	25	12	20.79	20.79	20.76		
10	16QAM	25	25	20.79	20.72	20.71	22	2
10	16QAM	50	0	20.81	20.78	20.71		
10	64QAM	1	0	20.92	20.73	21.10		
10	64QAM	1	25	20.91	21.18	20.96	22	2
10	64QAM	1	49	20.79	20.83	21.58		
10	64QAM	25	0	19.76	19.80	19.76		
10	64QAM	25	12	19.89	19.86	19.89	21	3
10	64QAM	25	25	19.87	19.83	19.67		
10	64QAM	50	0	19.89	19.79	19.69		
Channel				2370	2390	2390	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.84	22.82	22.80	24	0
5	QPSK	1	12	22.71	22.80	22.79		
5	QPSK	1	24	22.57	22.81	22.83		
5	QPSK	12	0	21.60	21.71	21.45	23	1
5	QPSK	12	7	21.59	21.72	21.64		
5	QPSK	12	13	21.62	21.69	21.62		
5	QPSK	25	0	21.66	21.89	21.53	23	1
5	16QAM	1	0	21.69	22.03	22.13		
5	16QAM	1	12	21.64	21.94	21.81		
5	16QAM	1	24	22.03	22.07	21.88	22	2
5	16QAM	12	0	20.66	20.70	20.68		
5	16QAM	12	7	20.75	20.74	20.72		
5	16QAM	12	13	20.85	20.69	20.68	22	2
5	16QAM	25	0	20.73	20.77	20.65		
5	64QAM	1	0	20.80	20.81	21.09		
5	64QAM	1	12	20.84	21.08	20.92	22	2
5	64QAM	1	24	20.84	20.81	21.05		
5	64QAM	12	0	19.72	19.76	19.65		
5	64QAM	12	7	19.93	19.78	19.78	21	3
5	64QAM	12	13	19.73	19.68	19.60		
5	64QAM	25	0	19.79	19.68	19.61		



Band 18_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	20.44	20.44	20.44	22	0
15	QPSK	1	37	20.50	20.50	20.50		
15	QPSK	1	74	20.56	20.56	20.56		
15	QPSK	36	0	20.61	20.61	20.61	22	0
15	QPSK	36	20	20.73	20.73	20.73		
15	QPSK	36	39	20.89	20.89	20.89		
15	QPSK	75	0	20.72	20.72	20.72	22	0
15	16QAM	1	0	20.70	20.70	20.70		
15	16QAM	1	37	20.89	20.89	20.89		
15	16QAM	1	74	20.95	20.95	20.95	22	0
15	16QAM	36	0	20.65	20.65	20.65		
15	16QAM	36	20	20.70	20.70	20.70		
15	16QAM	36	39	20.84	20.84	20.84	22	0
15	16QAM	75	0	20.57	20.57	20.57		
15	16QAM	75	0	20.65	20.65	20.65		
15	64QAM	1	0	20.53	20.53	20.53	22	0
15	64QAM	1	37	20.50	20.50	20.50		
15	64QAM	1	74	20.26	20.26	20.26		
15	64QAM	36	0	20.18	20.18	20.18	21.5	0.5
15	64QAM	36	20	20.24	20.24	20.24		
15	64QAM	36	39	20.11	20.11	20.11		
15	64QAM	75	0	23800	23925	23950	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	20.39	20.32	20.32	22	0
10	QPSK	1	25	20.69	20.67	20.66		
10	QPSK	1	49	20.40	20.40	20.43		
10	QPSK	25	0	20.56	20.55	20.50	22	0
10	QPSK	25	12	20.67	20.62	20.59		
10	QPSK	25	25	20.55	20.49	20.51		
10	QPSK	50	0	20.68	20.70	20.61	22	0
10	16QAM	1	0	20.67	20.64	20.60		
10	16QAM	1	25	20.57	20.65	20.60		
10	16QAM	1	49	20.55	20.61	20.57	22	0
10	16QAM	25	0	20.62	20.57	20.59		
10	16QAM	25	12	20.64	20.66	20.58		
10	16QAM	25	25	20.58	20.52	20.57	22	0
10	16QAM	50	0	20.47	20.49	20.51		
10	16QAM	50	0	20.61	20.56	20.60		
10	64QAM	1	25	20.49	20.51	20.48	22	0
10	64QAM	1	49	20.39	20.39	20.40		
10	64QAM	25	0	20.21	20.24	20.20		
10	64QAM	25	12	20.11	20.09	20.06	21.5	0.5
10	64QAM	25	25	20.22	20.22	20.13		
10	64QAM	50	0	20.02	20.00	20.03		
10	64QAM	50	0	23975	23925	23975	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
5	QPSK	1	0	20.41	20.40	20.33	22	0
5	QPSK	1	12	20.64	20.69	20.72		
5	QPSK	1	24	20.63	20.63	20.63		
5	QPSK	12	0	20.54	20.57	20.59	22	0
5	QPSK	12	7	20.63	20.71	20.61		
5	QPSK	12	13	20.55	20.54	20.48		
5	QPSK	25	0	20.67	20.69	20.60	22	0
5	16QAM	1	0	20.68	20.64	20.63		
5	16QAM	1	12	20.57	20.58	20.60		
5	16QAM	1	24	20.57	20.62	20.55	22	0
5	16QAM	12	0	20.58	20.60	20.61		
5	16QAM	12	7	20.60	20.65	20.65		
5	16QAM	12	13	20.60	20.59	20.59	22	0
5	16QAM	25	0	20.54	20.53	20.48		
5	64QAM	1	0	20.53	20.55	20.61		
5	64QAM	1	12	20.49	20.48	20.51	22	0
5	64QAM	1	24	20.44	20.44	20.46		
5	64QAM	12	0	20.19	20.19	20.24		
5	64QAM	12	7	20.10	20.11	20.11	21.5	0.5
5	64QAM	12	13	20.22	20.20	20.13		
5	64QAM	25	0	20.09	20.09	20.04		

Band 18_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.76	22.76	22.76	24	0
15	QPSK	1	37	22.83	22.83	22.83		
15	QPSK	1	74	22.89	22.89	22.89		
15	QPSK	36	0	21.88	21.88	21.88	23	1
15	QPSK	36	20	21.96	21.96	21.96		
15	QPSK	36	39	21.88	21.88	21.88		
15	QPSK	75	0	21.81	21.81	21.81	23	1
15	16QAM	1	0	22.12	22.12	22.12		
15	16QAM	1	37	22.50	22.50	22.50		
15	16QAM	1	74	22.06	22.06	22.06	22	2
15	16QAM	36	0	20.94	20.94	20.94		
15	16QAM	36	20	20.99	20.99	20.99		
15	16QAM	36	39	21.01	21.01	21.01	22	2
15	16QAM	75	0	20.95	20.95	20.95		
15	64QAM	1	0	20.95	20.95	20.95		
15	64QAM	1	37	21.33	21.33	21.33	22	2
15	64QAM	1	74	21.21	21.21	21.21		
15	64QAM	36	0	19.93	19.93	19.93		
15	64QAM	36	20	19.97	19.97	19.97	21	3
15	64QAM	36	39	19.99	19.99	19.99		
15	64QAM	75	0	19.93	19.93	19.93		
15	64QAM	75	0	23800	23925	23950	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.81	22.84	22.74	24	0
10	QPSK	1	25	22.83	22.87	22.86		
10	QPSK	1	49	22.75	22.84	22.81		
10	QPSK	25	0	21.84	21.81	21.86	23	1
10	QPSK	25	12	21.87	21.86	21.83		
10	QPSK	25	25	21.78	21.73	21.75		
10	QPSK	50	0	21.77	21.82	21.88	23	1
10	16QAM	1	0	22.09	22.05	22.12		
10	16QAM	1	25	22.44	22.40	22.48		
10	16QAM	1	49	22.03	21.99	22.04	22	2
10	16QAM	25	0	20.92	20.99	20.99		
10	16QAM	25	12	20.94	20.87	20.99		
10	16QAM	25	25	21.01	21.05	21.01	22	2
10	16QAM	50	0	20.81	20.94	20.81		
10	64QAM	1	0	21.05	21.00	21.05		
10	64QAM	1	25	21.27	21.32	21.29	22	2
10	64QAM	1	49	21.17	21.18	21.11		
10	64QAM	25	0	19.88	19.86	19.80		
10	64QAM	25	12	19.90	19.88	19.92	21	3
10	64QAM	25	25	19.84	19.88	19.84		
10	64QAM	50	0	19.87	19.86	19.92		
10	64QAM	50	0	23975	23925	23975	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.62	22.65	22.65	24	0
5	QPSK	1	12	22.86	22.84	22.85		
5	QPSK	1	24	22.79	22.74	22.83		
5	QPSK	12	0	21.87	21.87	21.81	23	1
5	QPSK	12	7	21.93	21.81	21.84		
5	QPSK	12	13	21.74	21.85	21.75		
5	QPSK	25	0	21.82	21.81	21.90	23	1
5	16QAM	1	0	21.99	22.04	22.00		
5	16QAM	1	12	22.35	22.46	22.36		
5	16QAM	1	24	22.03	22.02	21.96	22	2
5	16QAM	12	0	20.81	20.93	20.94		
5	16QAM	12	7	20.92	20.93	20.84		
5	16QAM	12	13	20.95	20.95	20.95	22	2
5	16QAM	25	0	20.92	20.85	20.87		
5	64QAM	1	0	20.85	20.85	20.85		
5	64QAM	1	12	21.23	21.21	21.24	22	2
5	64QAM	1	24	21.16	21.13	21.08		
5	64QAM	12	0	19.85	19.90	19.86		
5	64QAM	12	7	19.82	19.87	19.93	21	3
5	64QAM	12	13	19.91	19.87	19.88		
5	64QAM	25	0	19.83	19.87	19.86		



Band 19_Ant 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 Frequency (MHz)							
15	QPSK	1	0	20.08	20.08	20.08	21.5 0
15	QPSK	1	37	20.09	20.09	20.09	
15	QPSK	36	0	20.05	20.05	20.05	21.5 0
15	QPSK	36	20	20.09	20.09	20.09	
15	QPSK	36	39	20.06	20.06	20.06	21.5 0
15	QPSK	75	0	20.07	20.07	20.07	
15	16QAM	1	0	20.03	20.03	20.03	21.5 0
15	16QAM	1	37	20.09	20.09	20.09	
15	16QAM	36	0	20.06	20.06	20.06	21.5 0
15	16QAM	36	20	20.02	20.02	20.02	
15	16QAM	36	38	20.04	20.04	20.04	21.5 0
15	16QAM	75	0	20.07	20.07	20.07	
15	64QAM	1	0	20.06	20.06	20.06	21.5 0
15	64QAM	1	37	20.09	20.09	20.09	
15	64QAM	1	74	20.02	20.02	20.02	21.5 0
15	64QAM	36	0	20.06	20.06	20.06	
15	64QAM	36	20	20.01	20.01	20.01	21.5 0
15	64QAM	36	39	20.02	20.02	20.02	
15	64QAM	75	0	20.01	20.01	20.01	
Channel Frequency (MHz)							
10	QPSK	1	0	20.00	19.98	20.04	21.5 0
10	QPSK	1	25	20.04	20.02	20.02	
10	QPSK	1	49	19.99	19.99	20.02	21.5 0
10	QPSK	25	0	20.00	20.03	20.00	
10	QPSK	25	12	20.00	20.00	20.08	21.5 0
10	QPSK	25	25	20.03	20.03	19.94	
10	QPSK	50	0	19.95	20.02	20.01	21.5 0
10	16QAM	1	0	19.91	19.98	19.91	
10	16QAM	1	25	20.04	20.00	19.99	21.5 0
10	16QAM	1	49	20.02	20.02	20.01	
10	16QAM	25	0	20.01	19.99	19.96	21.5 0
10	16QAM	25	12	19.97	19.94	19.90	
10	16QAM	25	25	19.95	19.95	19.95	21.5 0
10	64QAM	1	0	19.95	20.03	19.98	
10	64QAM	1	25	19.97	20.07	20.00	21.5 0
10	64QAM	1	49	19.96	19.98	20.00	
10	64QAM	25	0	19.96	20.02	19.95	21.5 0
10	64QAM	25	12	19.95	19.95	19.99	
10	64QAM	25	25	19.96	19.98	19.97	21.5 0
10	64QAM	50	0	19.90	19.95	19.95	
Channel Frequency (MHz)							
5	QPSK	1	0	20.01	19.96	20.03	21.5 0
5	QPSK	1	12	20.01	20.08	20.00	
5	QPSK	1	24	20.01	20.04	19.98	21.5 0
5	QPSK	12	0	19.99	19.99	20.02	
5	QPSK	12	7	20.07	20.00	20.07	21.5 0
5	QPSK	12	13	19.99	20.01	19.99	
5	QPSK	25	0	19.99	19.98	20.01	21.5 0
5	16QAM	1	0	20.00	19.97	19.94	
5	16QAM	1	12	20.07	20.02	20.04	21.5 0
5	16QAM	1	24	19.99	19.96	20.04	
5	16QAM	12	0	19.95	20.01	19.96	21.5 0
5	16QAM	12	7	19.91	19.95	20.00	
5	16QAM	12	13	20.00	19.99	19.94	21.5 0
5	16QAM	12	19	19.98	19.99	19.95	
5	64QAM	25	0	19.98	19.99	20.01	21.5 0
5	64QAM	1	0	19.98	19.99	19.95	
5	64QAM	1	12	19.98	20.02	20.05	21.5 0
5	64QAM	1	24	19.94	19.99	19.96	
5	64QAM	12	0	19.96	19.99	20.04	21.5 0
5	64QAM	12	7	19.90	19.89	19.99	
5	64QAM	12	13	19.90	19.93	19.93	21.5 0
5	64QAM	25	0	19.95	19.95	19.93	

Band 19_Ant 31							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm) MPR (dB)
Channel Frequency (MHz)							
15	QPSK	1	0	22.75	22.75	22.75	24 0
15	QPSK	1	37	22.76	22.76	22.76	
15	QPSK	1	74	22.73	22.73	22.73	23 1
15	QPSK	36	0	21.90	21.90	21.90	
15	QPSK	36	20	21.97	21.97	21.97	23 1
15	QPSK	36	39	21.95	21.95	21.95	
15	QPSK	75	0	21.92	21.92	21.92	23 1
15	16QAM	1	0	22.03	22.03	22.03	
15	16QAM	1	37	22.10	22.10	22.10	23 1
15	16QAM	1	74	21.80	21.80	21.80	
15	16QAM	36	0	20.91	20.91	20.91	22 2
15	16QAM	36	20	21.03	21.03	21.03	
15	16QAM	36	38	20.87	20.87	20.87	22 2
15	16QAM	75	0	20.99	20.99	20.99	
15	64QAM	1	0	20.96	20.96	20.96	22 2
15	64QAM	1	37	20.99	20.99	20.99	
15	64QAM	1	74	21.01	21.01	21.01	21 3
15	64QAM	36	0	20.05	20.05	20.05	
15	64QAM	36	20	20.00	20.00	20.00	21 3
15	64QAM	36	39	19.99	19.99	19.99	
15	64QAM	75	0	20.00	20.00	20.00	
Channel Frequency (MHz)							
10	QPSK	1	0	22.74	22.74	22.72	24 0
10	QPSK	1	25	22.76	22.81	22.81	
10	QPSK	1	49	22.67	22.61	22.73	23 1
10	QPSK	25	0	21.86	21.89	21.75	
10	QPSK	25	12	21.95	21.98	21.92	23 1
10	QPSK	25	25	21.81	21.91	21.95	
10	QPSK	50	0	21.81	21.86	21.84	23 1
10	16QAM	1	0	21.95	22.00	21.98	
10	16QAM	1	25	22.09	22.03	22.09	22 2
10	16QAM	1	49	21.85	21.69	21.70	
10	16QAM	25	0	20.84	20.79	20.81	22 2
10	16QAM	25	12	20.89	20.98	21.02	
10	16QAM	25	25	20.83	20.78	20.84	22 2
10	64QAM	1	0	20.84	20.88	20.84	
10	64QAM	1	25	20.89	20.76	20.78	21 3
10	64QAM	1	49	20.85	20.86	20.86	
10	64QAM	25	0	20.02	20.04	19.97	21 3
10	64QAM	25	12	19.92	19.99	19.90	
10	64QAM	25	25	19.94	19.77	19.95	21 3
10	64QAM	50	0	19.85	20.00	19.94	
Channel Frequency (MHz)							
5	QPSK	1	0	22.63	22.68	22.68	24 0
5	QPSK	1	12	22.87	22.85	22.84	
5	QPSK	1	24	22.65	22.63	22.58	23 1
5	QPSK	12	0	21.81	21.87	21.89	
5	QPSK	12	7	21.83	21.94	21.90	23 1
5	QPSK	12	13	21.80	21.81	21.89	
5	QPSK	25	0	21.82	21.85	21.87	23 1
5	16QAM	1	0	22.02	22.03	22.02	
5	16QAM	1	12	21.98	22.06	21.95	23 1
5	16QAM	1	24	21.83	21.59	21.57	
5	16QAM	12	0	20.87	20.76	20.85	22 2
5	16QAM	12	7	20.95	21.00	20.94	
5	16QAM	12	13	20.72	20.82	20.73	22 2
5	16QAM	12	19	20.78	20.81	20.78	
5	64QAM	25	0	20.82	20.84	20.84	22 2
5	64QAM	1	0	20.84	20.76	20.86	
5	64QAM	1	12	20.90	20.95	20.97	21 3
5	64QAM	1	24	20.01	19.94	19.94	
5	64QAM	12	0	19.91	19.98	20.00	21 3
5	64QAM	12	7	19.87	19.81	19.75	
5	64QAM	12	13	19.87	19.85	19.87	



Band 26_Ant 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								
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	20.83	21.03	21.01	22	0
15	QPSK	1	37	20.84	21.03	21.02		
15	QPSK	1	74	20.88	20.98	21.04		
15	QPSK	38	0	20.98	21.04	20.98		
15	QPSK	38	20	21.08	21.18	21.08		
15	QPSK	38	39	21.08	20.98	20.94		
15	QPSK	75	0	21.13	21.15	21.11	22	0
15	16QAM	1	0	21.10	21.13	21.12		
15	16QAM	1	37	21.11	21.11	21.11		
15	16QAM	1	74	21.10	21.10	21.12		
15	16QAM	38	0	20.92	21.12	21.09		
15	16QAM	38	20	21.12	21.15	21.13		
15	16QAM	38	39	21.03	21.08	21.05		
15	16QAM	75	0	21.01	21.11	20.95	22	0
15	64QAM	1	0	21.08	21.13	21.09		
15	64QAM	1	37	21.08	21.15	21.13		
15	64QAM	1	74	21.08	21.13	21.15		
15	64QAM	38	0	20.51	20.61	20.62		
15	64QAM	38	20	20.60	20.66	20.61		
15	64QAM	38	39	20.53	20.71	20.35		
15	64QAM	75	0	20.48	20.59	20.44	21.5	0.5
Channel				26740	26860	27020	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	20.81	20.93	20.91	22	0
10	QPSK	1	25	21.1	21.07	21.11		
10	QPSK	1	49	20.78	20.87	20.9		
10	QPSK	25	0	20.94	21	20.92		
10	QPSK	25	12	21.01	21.3	21.09		
10	QPSK	25	25	20.99	20.92	20.82		
10	QPSK	50	0	21.04	21.11	21.04		
10	16QAM	1	0	20.98	21.07	21.07		
10	16QAM	1	25	21.07	21.08	21		
10	16QAM	1	49	21.05	21.07	21.09		
10	16QAM	25	0	20.84	21	21.02		
10	16QAM	25	12	21.1	21.05	21.07		
10	16QAM	25	25	20.98	21.01	20.99		
10	16QAM	50	0	20.92	21.09	21.04		
10	64QAM	1	0	20.99	21.02	21.04		
10	64QAM	1	25	20.97	21.04	21.08		
10	64QAM	1	49	21.02	21.08	21.09		
10	64QAM	25	0	20.39	20.53	20.55		
10	64QAM	25	12	20.49	20.54	20.57		
10	64QAM	25	25	20.51	20.68	20.33		
10	64QAM	50	0	20.41	20.58	20.38	21.5	0.5
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819.5	831.5	843.5		
5	QPSK	1	0	20.71	20.91	20.99	22	0
5	QPSK	1	12	21.11	21.1	21.03		
5	QPSK	1	24	20.96	20.9	20.94		
5	QPSK	12	0	20.86	20.92	20.95		
5	QPSK	12	7	21.08	21.09	21.08		
5	QPSK	12	13	21.05	20.92	20.92		
5	QPSK	25	0	21.08	21.08	21.08		
5	16QAM	1	0	21.02	21.08	21.07		
5	16QAM	1	12	20.99	21.03	21.09		
5	16QAM	1	24	21.03	21.03	21.05		
5	16QAM	12	0	20.88	21.1	21.05		
5	16QAM	12	7	21.03	21.03	21.04		
5	16QAM	12	13	20.99	20.99	21.01		
5	16QAM	25	0	20.99	21.05	20.8		
5	16QAM	25	12	20.99	21.07	21.02		
5	64QAM	1	0	21.05	21.05	21.07		
5	64QAM	1	12	21.01	21.09	21.09		
5	64QAM	1	24	20.96	20.91	20.92		
5	64QAM	12	0	20.57	20.57	20.53		
5	64QAM	12	7	20.45	20.59	20.79		
5	64QAM	12	13	20.45	20.48	20.4		
5	64QAM	25	0	20.44	20.48	20.4	21.5	0.5
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				818.5	831.5	842.5		
3	QPSK	1	0	20.74	20.95	20.9	22	0
3	QPSK	1	8	21.05	21.14	21.03		
3	QPSK	1	14	20.78	20.88	20.92		
3	QPSK	8	0	20.93	21.02	20.87		
3	QPSK	8	4	21	21.06	21.1		
3	QPSK	8	7	21.05	20.9	20.82		
3	QPSK	15	0	21.09	21.06	21.09		
3	16QAM	1	0	21.02	21.05	21.08		
3	16QAM	1	8	21.06	21.05	21.02		
3	16QAM	1	14	21.08	20.99	21.07		
3	16QAM	8	0	20.98	21.02	21.03		
3	16QAM	8	4	21.05	21.08	21.08		
3	16QAM	8	7	20.94	20.97	20.96		
3	16QAM	15	0	20.96	21.04	20.78		
3	64QAM	1	0	21.03	21.1	21.03		
3	64QAM	1	8	21.01	21.1	21.05		
3	64QAM	1	14	20.98	21.07	21.1		
3	64QAM	8	0	20.41	20.53	20.54		
3	64QAM	8	4	20.52	20.58	20.59		
3	64QAM	8	7	20.48	20.67	20.35		
3	64QAM	15	0	20.44	20.48	20.32	21.5	0.5
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				817.7	831.5	845.3		
1.4	QPSK	1	0	20.72	21.01	20.95	22	0
1.4	QPSK	1	3	21.10	21.07	21.12		
1.4	QPSK	1	6	20.79	20.88	21.01		
1.4	QPSK	3	0	20.88	20.96	20.88		
1.4	QPSK	3	1	21.06	21.13	21.09		
1.4	QPSK	3	3	21.04	20.88	20.91		
1.4	QPSK	6	0	21.08	21.08	21.03		
1.4	16QAM	1	0	21.07	21.10	21.10		
1.4	16QAM	1	3	20.99	21.01	21.08		
1.4	16QAM	1	6	21.06	21.02	21.10		
1.4	16QAM	3	0	20.88	21.08	20.99		
1.4	16QAM	3	1	21.10	21.03	21.09		
1.4	16QAM	3	3	20.96	20.96	21.02		
1.4	16QAM	6	0	20.89	21.01	20.73		
1.4	64QAM	1	0	21.00	21.06	21.05		
1.4	64QAM	1	3	21.01	21.09	21.05		
1.4	64QAM	1	6	21.02	21.02	21.02		
1.4	64QAM	3	0	21.00	21.04	21.06		
1.4	64QAM	3	1	21.05	21.05	21.07		
1.4	64QAM	3	3	21.06	20.98	21.01		
1.4	64QAM	6	0	20.44	20.52	20.40	21.5	0.5

Band 26_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.84	22.89	22.89	24	0
15	QPSK	1	37	22.84	22.89	22.89		
15	QPSK	1	74	22.91	22.91	22.89		
15	QPSK	38	0	21.83	21.92	21.83		
15	QPSK	38	20	22.91	22.91	22.85		
15	QPSK	38	39	21.97	22.01	21.88		
15	QPSK	75	0	21.97	22.02	21.94	23	1
15	16QAM	1	0	22.25	22.27	22.21		
15	16QAM	1	37	22.38	22.48	22.39		
15	16QAM	1	74	22.21	22.27	22.20		
15	16QAM	38	0	20.97	20.99	20.91		
15	16QAM	38	20	21.06	21.08	21.08		
15	16QAM	38	39	20.91	20.97	20.89		
15	16QAM	75	0	20.97	21.03	20.89	22	2
15	64QAM	1	0	21.10	21.05	21.06		
15	64QAM	1	37	21.40	21.48	21.39		
15	64QAM	1	74	21.08	21.05	21.04		
15	64QAM	38	0	19.96	20.06	20.06		
15	64QAM	38	20	19.99	20.09	20.06		
15	64QAM	38	39	19.86	19.97	19.84		
15	64QAM	75	0	19.86	19.94	19.79	21	3
Channel				26719	26865	27040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.81	22.79	22.78	24	0
10	QPSK	1	25	22.88	22.88	22.84		
10	QPSK	1	49	22.82	22.76	22.85		
10	QPSK	25	0	21.77	21.85	21.75		
10	QPSK	25	12	21.86	22.01	21.92		
10	QPSK	25	25	21.95	21.97	21.78		
10	QPSK	50	0	21.85	21.93	21.88		
10	16QAM	1	0	22.22				



Band 66_Ant 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								
Frequency (MHz)								
20	QPSK	1	0	14.11	14.14	13.93	15	0
20	QPSK	1	49	14.11	14.30	13.93	15	0
20	QPSK	1	99	13.80	13.85	13.81	15	0
20	QPSK	50	0	14.18	14.24	14.14	15	0
20	QPSK	50	24	14.18	14.29	14.14	15	0
20	QPSK	50	50	14.16	14.26	14.20	15	0
20	QPSK	100	0	14.09	14.21	14.11	15	0
20	QPSK	100	0	14.19	14.13	14.11	15	0
20	16QAM	1	49	14.22	14.12	14.19	15	0
20	16QAM	1	99	14.24	14.23	14.22	15	0
20	16QAM	50	24	14.22	14.25	14.12	15	0
20	16QAM	50	50	14.23	14.08	14.10	15	0
20	16QAM	100	0	14.21	14.09	14.15	15	0
20	64QAM	1	0	14.13	14.15	14.24	15	0
20	64QAM	1	49	14.15	14.19	14.13	15	0
20	64QAM	1	99	14.26	14.25	14.22	15	0
20	64QAM	50	0	14.14	14.25	14.24	15	0
20	64QAM	50	24	14.20	14.13	14.20	15	0
20	64QAM	50	50	14.12	14.19	14.23	15	0
20	64QAM	100	0	14.14	14.18	14.18	15	0
Channel								
Frequency (MHz)								
15	QPSK	1	0	14.01	14.03	13.82	15	0
15	QPSK	1	49	14.11	14.22	14.14	15	0
15	QPSK	1	74	13.76	13.78	13.79	15	0
15	QPSK	36	0	14.08	14.15	14.03	15	0
15	QPSK	36	20	14.16	14.18	14.20	15	0
15	QPSK	36	39	14.13	14.23	14.18	15	0
15	QPSK	75	0	13.98	14.11	13.99	15	0
15	16QAM	1	37	14.16	14.06	14.08	15	0
15	16QAM	1	37	14.10	14.00	14.15	15	0
15	16QAM	1	74	14.14	14.20	14.20	15	0
15	16QAM	36	0	14.15	14.11	14.15	15	0
15	16QAM	36	20	14.20	14.18	14.10	15	0
15	16QAM	36	39	14.12	14.03	14.07	15	0
15	16QAM	75	0	14.18	14.07	14.08	15	0
15	64QAM	1	0	14.03	14.04	14.15	15	0
15	64QAM	1	37	14.06	14.12	14.08	15	0
15	64QAM	36	0	14.14	14.16	14.12	15	0
15	64QAM	36	0	14.12	14.15	14.19	15	0
15	64QAM	36	20	14.17	14.07	14.09	15	0
15	64QAM	36	39	14.10	14.10	14.18	15	0
15	64QAM	75	0	14.07	14.13	14.18	15	0
Channel								
Frequency (MHz)								
10	QPSK	1	0	14.03	14.03	13.83	15	0
10	QPSK	1	25	14.08	14.06	14.16	15	0
10	QPSK	1	49	13.85	13.78	13.73	15	0
10	QPSK	25	0	14.15	14.14	14.08	15	0
10	QPSK	25	12	14.19	14.22	14.11	15	0
10	QPSK	25	25	14.14	14.15	14.18	15	0
10	QPSK	50	0	14.00	14.11	14.04	15	0
10	16QAM	1	0	14.13	14.03	13.99	15	0
10	16QAM	1	49	14.11	14.07	14.09	15	0
10	16QAM	1	49	14.14	14.17	14.11	15	0
10	16QAM	25	0	14.11	14.13	14.13	15	0
10	16QAM	25	12	14.13	14.17	14.10	15	0
10	16QAM	25	25	14.19	14.06	14.04	15	0
10	16QAM	50	0	14.12	14.07	14.08	15	0
10	64QAM	1	0	14.09	14.11	14.14	15	0
10	64QAM	1	25	14.07	14.11	14.11	15	0
10	64QAM	1	49	14.16	14.21	14.14	15	0
10	64QAM	25	0	14.02	14.20	14.19	15	0
10	64QAM	25	12	14.18	14.11	14.11	15	0
10	64QAM	25	25	14.09	14.10	14.18	15	0
10	64QAM	50	0	14.11	14.11	14.12	15	0
Channel								
Frequency (MHz)								
5	QPSK	1	0	14.05	14.04	13.82	15	0
5	QPSK	1	12	14.09	14.24	14.08	15	0
5	QPSK	1	24	13.86	13.80	13.78	15	0
5	QPSK	12	0	14.12	14.14	14.07	15	0
5	QPSK	12	7	14.14	14.25	14.13	15	0
5	QPSK	13	0	14.10	14.18	14.18	15	0
5	QPSK	25	0	14.04	14.16	13.99	15	0
5	16QAM	1	0	14.11	14.09	14.06	15	0
5	16QAM	12	0	14.13	14.03	14.08	15	0
5	16QAM	1	24	14.18	14.12	14.12	15	0
5	16QAM	12	0	14.06	14.19	14.16	15	0
5	16QAM	12	7	14.13	14.14	14.14	15	0
5	16QAM	12	13	14.19	13.98	14.05	15	0
5	16QAM	25	0	14.18	14.03	14.04	15	0
5	64QAM	1	0	14.01	14.08	14.22	15	0
5	64QAM	1	12	14.07	14.17	14.01	15	0
5	64QAM	1	24	14.19	14.15	14.10	15	0
5	64QAM	12	0	14.03	14.22	14.21	15	0
5	64QAM	12	7	14.09	14.06	14.18	15	0
5	64QAM	12	13	14.09	14.15	14.11	15	0
5	64QAM	25	0	14.08	14.11	14.15	15	0
Channel								
Frequency (MHz)								
3	QPSK	1	0	14.15	14.12	13.81	15	0
3	QPSK	1	8	14.15	14.28	14.14	15	0
3	QPSK	1	14	13.70	13.83	13.89	15	0
3	QPSK	8	0	14.13	14.14	14.08	15	0
3	QPSK	8	4	14.14	14.21	14.14	15	0
3	QPSK	8	7	14.12	14.18	14.18	15	0
3	QPSK	16	0	13.97	14.10	14.06	15	0
3	16QAM	1	0	14.16	14.03	14.04	15	0
3	16QAM	1	8	14.18	14.08	14.16	15	0
3	16QAM	1	14	14.13	14.19	14.14	15	0
3	16QAM	8	0	14.11	14.13	14.07	15	0
3	16QAM	8	4	14.16	14.16	14.05	15	0
3	16QAM	8	7	14.17	14.02	14.07	15	0
3	16QAM	15	0	14.17	13.97	14.11	15	0
3	64QAM	1	0	14.03	14.07	14.15	15	0
3	64QAM	1	8	14.09	14.14	14.10	15	0
3	64QAM	1	14	14.23	14.22	14.12	15	0
3	64QAM	8	0	14.04	14.21	14.18	15	0
3	64QAM	8	4	14.15	14.11	14.18	15	0
3	64QAM	8	7	14.03	14.13	14.15	15	0
3	64QAM	15	0	14.03	14.07	14.07	15	0
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	14.06	14.03	13.81	15	0
1.4	QPSK	1	3	14.14	14.23	14.16	15	0
1.4	QPSK	1	5	13.86	13.73	13.79	15	0
1.4	QPSK	3	0	14.15	14.18	14.09	15	0
1.4	QPSK	3	1	14.11	14.17	14.18	15	0
1.4	QPSK	3	3	14.05	14.19	14.18	15	0
1.4	QPSK	0	0	13.98	14.09	13.99	15	0
1.4	16QAM	1	0	14.06	14.10	14.04	15	0
1.4	16QAM	1	3	14.20	14.02	14.11	15	0
1.4	16QAM	1	5	14.14	14.12	14.11	15	0
1.4	16QAM	3	0	14.07	14.10	14.15	15	0
1.4	16QAM	3	1	14.12	14.20	14.08	15	0
1.4	16QAM	3	3	14.19	13.98	14.09	15	0
1.4	16QAM	6	0	14.19	14.02	14.07	15	0
1.4	64QAM	1	0	14.04	14.12	14.12	15	0
1.4	64QAM	1	3	14.10	14.12	14.02	15	0
1.4	64QAM	1	5	14.16	14.14	14.14	15	0
1.4	64QAM	3	0	14.10	14.22	14.19	15	0
1.4	64QAM	3	1	14.10	14.10	14.14	15	0
1.4	64QAM	3	3	14.05	14.11	14.15	15	0
1.4	64QAM	6	0	14.12	14.15	14.08	15	0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.02	23.07	23.06	24	0
20	QPSK	1	49	23.02	23.38	23.34	24	0
20	QPSK	1	99	22.98	22.90	22.94	24	0
20	QPSK	50	0	22.06	22.17	22.19	23	1
20	QPSK	50	24	22.06	22.25	22.25	23	1
20	QPSK	50	50	22.18	22.14	22.18	23	1
20	QPSK	100	0	22.12	22.19	22.18	23	1
20	QPSK	100	0	22.20	22.27	22.28	23	1
20	16QAM	1	49	22.49	22.55	22.89	23	1
20</								



Band 38_Ant 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										
Frequency (MHz)										
20	QPSK	1	0	15.01	15.09	15.15	16	0		
20	QPSK	1	49	15.33	15.38	15.44				
20	QPSK	1	99	15.63	15.70	15.76				
20	QPSK	50	0	15.28	15.11	15.28	16	0		
20	QPSK	50	24	15.52	15.33	15.30				
20	QPSK	50	50	15.30	15.28	15.28				
20	QPSK	100	0	15.22	15.31	15.30	16	0		
20	16QAM	1	0	15.20	15.21	15.28				
20	16QAM	1	99	15.25	15.25	15.33				
20	16QAM	50	0	15.09	15.18	15.28	16	0		
20	16QAM	50	24	15.31	15.33	15.31				
20	16QAM	50	50	15.31	15.31	15.28				
20	16QAM	100	0	15.19	15.25	15.31	16	0		
20	64QAM	1	49	15.19	15.27	15.25				
20	64QAM	1	99	15.21	15.28	15.30				
20	64QAM	50	0	15.14	15.25	15.29	16	0		
20	64QAM	50	24	15.31	15.32	15.32				
20	64QAM	50	50	15.28	15.35	15.28				
20	64QAM	100	0	15.11	15.27	15.21	16	MPR		
Channel										
Frequency (MHz)										
15	QPSK	1	0	14.59	15.04	15.05	16	0		
15	QPSK	1	37	15.22	15.26	15.22				
15	QPSK	1	74	14.97	14.82	15.10				
15	QPSK	36	0	15.16	15.02	15.17	16	0		
15	QPSK	36	20	15.24	15.20	15.21				
15	QPSK	36	39	15.20	15.17	15.17				
15	QPSK	75	0	15.15	15.19	15.28	16	0		
15	16QAM	1	0	15.09	15.19	15.20				
15	16QAM	1	37	15.14	15.21	15.28				
15	16QAM	1	74	15.15	15.18	15.27	16	0		
15	16QAM	36	0	14.97	15.12	15.21				
15	16QAM	36	20	15.22	15.29	15.26				
15	16QAM	36	39	15.21	15.19	15.22	16	0		
15	16QAM	75	0	15.08	15.21	15.20				
15	64QAM	1	143	15.08	15.20	15.20				
15	64QAM	1	37	15.17	15.15	15.22	16	0		
15	64QAM	1	74	15.18	15.17	15.27				
15	64QAM	36	0	15.01	15.15	15.22				
15	64QAM	36	20	15.28	15.25	15.23	16	0		
15	64QAM	36	39	15.17	15.31	15.19				
15	64QAM	75	0	14.99	15.25	15.12				
Channel										
Frequency (MHz)										
10	QPSK	1	0	14.99	15.07	15.09	16	0		
10	QPSK	1	25	15.30	15.33	15.31				
10	QPSK	1	49	15.01	14.96	15.14				
10	QPSK	25	0	15.21	14.98	15.21	16	0		
10	QPSK	25	12	15.20	15.31	15.22				
10	QPSK	25	25	15.21	15.19	15.21				
10	16QAM	1	0	15.13	15.11	15.20	16	0		
10	16QAM	1	25	15.21	15.20	15.25				
10	16QAM	1	49	15.19	15.20	15.21				
10	16QAM	25	0	14.87	15.15	15.20	16	0		
10	16QAM	25	12	15.25	15.29	15.23				
10	16QAM	25	25	15.27	15.28	15.23				
10	16QAM	50	0	15.07	15.17	15.23	16	0		
10	64QAM	1	0	14.92	15.08	15.24				
10	64QAM	1	25	15.12	15.16	15.15				
10	64QAM	1	49	15.09	15.25	15.28	16	0		
10	64QAM	25	0	15.02	15.23	15.21				
10	64QAM	25	12	15.23	15.23	15.30				
10	64QAM	25	25	15.19	15.27	15.18	16	0		
10	64QAM	50	0	14.99	15.25	15.16				
10	64QAM	50	0	14.99	15.25	15.12				
Channel										
Frequency (MHz)										
5	QPSK	1	0	14.94	14.99	15.12	16	0		
5	QPSK	1	12	15.22	15.30	15.24				
5	QPSK	1	24	14.97	14.95	15.12				
5	QPSK	12	0	15.21	15.08	15.20	16	0		
5	QPSK	12	7	15.30	15.28	15.27				
5	QPSK	12	13	15.23	15.19	15.25				
5	QPSK	25	0	15.15	15.25	15.22	16	0		
5	16QAM	1	0	15.21	15.23	15.24				
5	16QAM	1	24	15.20	15.19	15.23				
5	16QAM	12	0	14.98	15.15	15.20	16	0		
5	16QAM	12	7	15.20	15.20	15.29				
5	16QAM	12	13	15.22	15.27	15.16				
5	16QAM	25	0	15.13	15.13	15.28	16	0		
5	64QAM	1	0	15.01	15.07	15.19				
5	64QAM	1	12	15.13	15.21	15.17				
5	64QAM	1	24	15.17	15.25	15.25	16	0		
5	64QAM	12	0	15.05	15.17	15.23				
5	64QAM	12	7	15.18	15.28	15.25				
5	64QAM	12	13	15.24	15.27	15.20	16	0		
5	64QAM	25	0	15.08	15.18	15.16				

Band 38_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.71	23.72	23.70	24.5	0		
20	QPSK	1	49	23.98	24.03	23.99				
20	QPSK	1	99	23.97	23.97	23.92				
20	QPSK	50	0	22.99	22.97	22.90	23.5	1		
20	QPSK	50	24	23.05	23.10	23.05				
20	QPSK	50	50	23.05	23.01	23.04				
20	QPSK	100	0	23.08	23.09	23.04	23.5	1		
20	16QAM	1	0	23.12	23.05	22.99				
20	16QAM	1	49	23.37	23.36	23.24				
20	16QAM	50	0	22.05	22.02	21.97	22.5	2		
20	16QAM	50	24	22.20	22.14	22.14				
20	16QAM	50	50	22.14	22.19	22.11				
20	16QAM	100	0	22.08	22.08	22.11	22.5	2		
20	64QAM	1	49	22.30	22.19	22.21				
20	64QAM	1	99	22.08	22.05	22.04				
20	64QAM	50	0	21.08	20.98	21.05	21.5	3		
20	64QAM	50	24	21.28	21.12	21.16				
20	64QAM	50	50	21.14	21.22	21.18				
20	64QAM	100	0	21.11	21.08	21.18	21.5	3		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.58	23.58	23.52	24.5	0		
15	QPSK	1	37	23.88	23.99	23.85				
15	QPSK	1	74	23.81	23.78	23.77				
15	QPSK	36	0	22.99	22.99	22.95	23.5	1		
15	QPSK	36	20	22.96	23.00	22.94				
15	QPSK	36	39	22.92	22.88	22.95				
15	QPSK	75	0	23.03	23.03	23.00	23.5	1		
15	16QAM	1	0	23.01	22.99	22.85				
15	16QAM	1	37	23.35	23.34	23.18				
15	16QAM	1	74	23.02	23.13	23.02	22.5	2		
15	16QAM	36	0	21.98	22.01	21.93				
15	16QAM	36	20	22.13	22.09	22.04				
15	16QAM	36	39	22.07	22.07	22.05	22.5	2		
15	16QAM	75	0	21.99	22.03	21.99				
15	64QAM	1	1	21.98	22.08	22.06				
15	64QAM	1	37	22.24	22.18	22.18	21.5	3		
15	64QAM	1	74	22.02	22.01	22.04				
15	64QAM	36	0	21.01	20.80	20.94				
15	64QAM	36	20	21.21	21.00	21.11	21.5	3		
15	64QAM	36	39	21.10	21.21	21.14				
15	64QAM	75	0	20.98	21.05	21.13				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.67	23.51	23.70	24.5	0		
10	QPSK	1	25	23.83	23.82	23.84				
10	QPSK	1	49	23.76	23.84	23.81				
10	QPSK	25	0	22.90	22.86	22.84	23.5	1		
10	QPSK	25	12	23.00	23.00	22.95				
10	QPSK	25	25	23.00	22.88	22.96				
10	16QAM	1	0	23.09	22.86	22.87	23.5	1		
10	16QAM	1	25	23.25	23.34	23.15				
10	16QAM	1	49	23.05	23.04	23.08				
10	16QAM	25	0	22.03	21.88	21.93	22.5	2		
10	16QAM	25	12	22.15	22.03	22.14				
10	16QAM	25	25	22.14	22.15	21.97				
10	16QAM	50	0	22.04	22.02	22.02	22.5	2		
10	64QAM	1	0	21.90	21.82	21.92				
10	64QAM	1	25	22.30	22.08	22.11				
10	64QAM	1	49	21.97	21.91	21.93	21.5	3		
10	64QAM	25	0	20.96	20.85	21.05				
10	64QAM	25	12	21.21	21.07	21.13				
10	64QAM	25	25	21.03	21.08	21.13	21.5	3		
10	64QAM	50	0	20.93	20.90	21.04				
10	64QAM	50	0	20.93	20.90	21.04				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.61	23.58	23.56	24.5	0		
5	QPSK	1	12	23.91	23.96	23.85				
5	QPSK	1	24	23.72	23.72	23.80				
5	QPSK	12	0	22						



Band 41_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power 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)				25015	25450	25885	26320	26755		
20	QPSK	1	0	13.52	13.83	13.71	13.49	13.47	14.5	0
20	QPSK	1	49	13.83	13.76	13.84	13.81	13.81		
20	QPSK	50	0	13.82	13.82	13.82	13.70	13.82		
20	QPSK	50	24	13.75	13.75	13.82	13.77	13.85		
20	QPSK	50	50	13.88	13.58	13.87	13.83	13.75		
20	QPSK	100	0	13.70	13.80	13.78	13.89	13.78		
20	16QAM	1	0	13.71	13.82	13.77	13.70	13.89		
20	16QAM	1	49	13.88	13.66	13.76	13.78	13.72		
20	16QAM	1	99	13.78	13.70	13.77	13.76	13.84		
20	16QAM	50	0	13.65	13.56	13.76	13.73	13.82		
20	16QAM	50	24	13.75	13.65	13.75	13.59	13.80		
20	16QAM	50	50	13.69	13.69	13.83	13.71	13.88		
20	16QAM	100	0	13.71	13.87	13.79	13.80	13.69		
20	16QAM	1	0	13.77	13.72	13.73	13.77	13.67		
20	16QAM	1	49	13.64	13.58	13.78	13.75	13.73		
20	16QAM	1	99	13.78	13.81	13.82	13.72	13.65		
20	16QAM	50	0	13.62	13.57	13.87	13.53	13.66		
20	16QAM	50	24	13.63	13.52	13.76	13.71	13.82		
20	16QAM	50	50	13.71	13.68	13.72	13.77	13.60		
20	16QAM	100	0	13.67	13.59	13.81	13.57	13.78		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				25015	25473	25918	26365	26812		
15	QPSK	1	0	13.43	13.52	13.67	13.57	13.50	14.50	0
15	QPSK	1	37	13.81	13.66	13.78	13.79	13.70		
15	QPSK	1	74	13.47	13.39	13.80	13.67	13.50		
15	QPSK	36	0	13.66	13.51	13.65	13.65	13.72		
15	QPSK	36	20	13.64	13.73	13.77	13.65	13.71		
15	QPSK	36	39	13.65	13.57	13.59	13.51	13.73		
15	16QAM	1	0	13.68	13.54	13.71	13.67	13.70		
15	16QAM	1	0	13.60	13.50	13.75	13.68	13.65		
15	16QAM	1	37	13.63	13.59	13.65	13.73	13.62		
15	16QAM	1	74	13.73	13.58	13.74	13.72	13.57		
15	16QAM	36	0	13.58	13.51	13.70	13.70	13.53		
15	16QAM	36	20	13.69	13.61	13.72	13.63	13.68		
15	16QAM	36	39	13.61	13.59	13.78	13.68	13.65		
15	16QAM	75	0	13.66	13.60	13.69	13.69	13.57		
15	16QAM	75	0	13.67	13.67	13.63	13.67	13.68		
15	16QAM	1	37	13.58	13.54	13.66	13.63	13.71		
15	16QAM	1	74	13.75	13.51	13.71	13.65	13.56		
15	16QAM	36	0	13.46	13.46	13.46	13.46	13.46		
15	16QAM	36	20	13.53	13.43	13.73	13.63	13.58		
15	16QAM	36	39	13.68	13.62	13.67	13.67	13.48		
15	16QAM	75	0	13.60	13.49	13.76	13.45	13.69		
Channel				39700	40160	40620	41060	41540		
Frequency (MHz)				25011	2547	2593	2639	2685		
10	QPSK	1	0	13.40	13.59	13.64	13.41	13.30	14.50	0
10	QPSK	1	25	13.77	13.74	13.77	13.71	13.69		
10	QPSK	1	49	13.49	13.38	13.53	13.59	13.52		
10	QPSK	25	0	13.58	13.51	13.62	13.70	13.68		
10	QPSK	25	12	13.70	13.70	13.74	13.67	13.77		
10	QPSK	25	25	13.59	13.52	13.64	13.60	13.70		
10	16QAM	1	0	13.63	13.58	13.74	13.60	13.64		
10	16QAM	1	25	13.60	13.50	13.67	13.61	13.58		
10	16QAM	25	0	13.63	13.48	13.65	13.66	13.52		
10	16QAM	25	12	13.63	13.81	13.66	13.77	13.54		
10	16QAM	50	0	13.60	13.63	13.77	13.78	13.61		
10	16QAM	1	0	13.72	13.63	13.64	13.72	13.58		
10	16QAM	1	25	13.68	13.56	13.74	13.71	13.62		
10	16QAM	1	49	13.70	13.58	13.76	13.70	13.54		
10	16QAM	25	0	13.50	13.55	13.45	13.51	13.57		
10	16QAM	25	12	13.53	13.50	13.65	13.66	13.55		
10	16QAM	25	25	13.69	13.60	13.64	13.73	13.56		
10	16QAM	50	0	13.50	13.53	13.78	13.43	13.66		
Channel				26915	26453	25993	26430	26875		
Frequency (MHz)				26915	26453	25993	26430	26875		
5	QPSK	1	0	13.47	13.57	13.67	13.48	13.44	14.50	0
5	QPSK	1	12	13.75	13.70	13.81	13.73	13.74		
5	QPSK	1	24	13.46	13.43	13.55	13.60	13.54		
5	QPSK	12	0	13.55	13.50	13.62	13.62	13.66		
5	QPSK	12	7	13.72	13.71	13.76	13.70	13.69		
5	QPSK	12	13	13.65	13.52	13.63	13.59	13.69		
5	16QAM	1	0	13.64	13.50	13.68	13.67	13.70		
5	16QAM	1	12	13.66	13.55	13.69	13.68	13.69		
5	16QAM	1	24	13.69	13.62	13.69	13.68	13.58		
5	16QAM	12	0	13.63	13.44	13.70	13.70	13.57		
5	16QAM	12	7	13.73	13.54	13.68	13.69	13.49		
5	16QAM	12	13	13.65	13.64	13.80	13.66	13.65		
5	16QAM	25	0	13.60	13.58	13.68	13.77	13.61		
5	16QAM	1	0	13.66	13.69	13.65	13.67	13.62		
5	16QAM	1	12	13.62	13.47	13.70	13.69	13.66		
5	16QAM	1	24	13.68	13.56	13.75	13.64	13.54		
5	16QAM	12	0	13.54	13.46	13.53	13.44	13.56		
5	16QAM	12	7	13.54	13.47	13.74	13.63	13.59		
5	16QAM	12	13	13.64	13.56	13.69	13.71	13.53		
5	16QAM	25	0	13.59	13.51	13.78	13.55	13.66		

Band 41_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power 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)				23815	24250	24685	25120	25555		
20	QPSK	1	0	23.81	23.82	23.84	23.80	23.81	24.5	0
20	QPSK	1	49	23.85	23.81	24.01	24.05	23.97		
20	QPSK	50	0	23.86	23.81	23.85	23.82	23.82		
20	QPSK	50	24	23.85	23.86	23.92	23.92	23.92		
20	QPSK	50	50	23.98	23.05	23.05	23.08	23.04		
20	QPSK	100	0	23.90	23.98	23.99	23.97	23.88		
20	16QAM	1	0	22.95	23.06	23.08	23.08	23.00		
20	16QAM	1	49	23.21	23.98	23.23	23.25	23.21		
20	16QAM	1	99	23.03	23.17	23.08	23.08	23.98		
20	16QAM	50	0	21.89	21.98	22.03	21.94	22.05		
20	16QAM	50	24	22.04	22.12	22.10	22.12	22.07		
20	16QAM	50	50	22.15	22.09	22.04	22.07	21.90		
20	16QAM	100	0	21.96	22.07	22.07	22.02	21.90		
20	16QAM	1	0	21.98	21.98	21.95	21.94	21.94		
20	16QAM	1	49	22.11	22.23	22.17	22.13	22.15		
20	16QAM	1	99	21.96	22.06	22.02	21.98	21.92		
20	16QAM	50	0	20.87	20.97	21.02	20.92	21.02		
20	16QAM	50	24	21.02	21.16	21.12	21.18	21.04		
20	16QAM	50	50	21.04	21.12	21.08	21.10	20.95		
20	16QAM	100	0	21.02	21.07	21.07	21.01	21.02		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				23815	24273	24718	25165	25612		
15	QPSK	1	0	23.82	23.84	23.84	23.79	23.82	24.50	0
15	QPSK	1	37	23.94	24.02	24.01	23.97	24.02		
15	QPSK	1	74	23.72	23.74	23.73	23.83	23.72		
15	QPSK	36	0	22.86	22.92	22.85	22.87	22.88		
15	QPSK	36	20	23.02	23.07	23.09	23.04	23.02		
15	QPSK	36	39	22.98	22.96	22.90	23.02	23.04		
15	16QAM	1	0	23.03	23.05	23.00	22.95	22.94		
15	16QAM	1	37	23.12	23.13	23.16	23.10	23.15		
15	16QAM	1	74	23.26	22.99	23.02	23.04	22.97		
15	16QAM	36	0	21.85	22.00	22.00	22.00	21.92		
15	16QAM	36	20	21.99	21.99	21.99	21.99	21.99		
15	16QAM	36	39	21.93	21.93	21.89	21.90	21.99		
15	16QAM	75	0	22.03	22.03	22.01	22.05	21.94		
15	16QAM	75	0	21.88	21.88	21.84	21.89	21.84		
15	16QAM	1	37	22.15	22.03	22.13	22.14	22.10		
15	16QAM	1	74	21.87	21.94	21.98	21.90	22.01		
15	16QAM	36	0	21.05	21.07	21.07	21.05	20.98		
15	16QAM	36	20	21.05	20.99	20.98	21.12	21.05		
15	16QAM	36	39	20.91	20.96	20.99	21.02	21.06		
15	16QAM	75	0	21.05	21.04	20.98	20.98	20.98		
Channel				39700	40160	40620	41060	41540		
Frequency (MHz)				23811	2427	2473	2519	2565		
10	QPSK	1	0	23.73	23.71	23.71	23.78	23.79	24.50	0
10	QPSK	1	25	24.02	23.97	23.98	23.92	23.98		
10	QPSK	1	49	23.74	23.70	23.74	23.73	23.71		
10	QPSK	25	0	22.88	22.97	22.83	22.81	22.91		
10	QPSK	25	12	22.95	22.98	22.97	23.02	22.95		
10	QPSK	25	25	22.99	22.99	23.01	22.93	23.01		
10	16QAM	1	0	23.03	22.93	22.84	23.08	23.01		
10	16QAM	1	25	23.15						



Reduced Power Mode for DSI4

<GSM>

GSM160_Ant 13	Burst Average Power (dBm)				Tune-up Limit	Frame-Average Power (dBm)				Tune-up Limit		
	128	168	251	Limit		128	168	251	Limit			
TX Channel	128	168	251	Limit	128	168	251	Limit	128	168	251	Limit
Frequency (MHz)	832.2	835.4	848.8	(dBm)	832.2	835.4	848.8	(dBm)	832.2	835.4	848.8	(dBm)
GSM 1 Tx slot	32.71	32.75	32.70	34.00	23.71	23.75	23.70	25.00				
GPRS/EDGE(GMSK) 1 Tx slot	32.70	32.73	32.68	34.00	23.70	23.73	23.68	25.00				
GPRS/EDGE(GMSK) 2 Tx slots	33.63	33.94	33.62	32.00	24.60	24.94	24.62	23.00				
GPRS/EDGE(GMSK) 3 Tx slots	28.55	28.60	28.48	30.00	24.29	24.34	24.22	25.74				
GPRS/EDGE(GMSK) 4 Tx slots	26.30	26.35	26.31	28.00	23.30	23.35	23.31	25.00				
EDGE 1 Tx slot	29.89	29.88	29.85	29.00	17.89	17.88	17.85	19.00				
EDGE 2 Tx slots	26.01	25.02	24.87	26.00	19.01	19.02	18.87	20.00				
EDGE 3 Tx slots	22.75	22.89	22.77	24.00	18.49	18.63	18.51	18.74				
EDGE 4 Tx slots	20.45	20.35	20.37	22.00	17.45	17.35	17.37	19.00				

GSM1800_Ant 13	Burst Average Power (dBm)				Tune-up Limit	Frame-Average Power (dBm)				Tune-up Limit		
	512	661	810	Limit		512	661	810	Limit			
TX Channel	512	661	810	Limit	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1850	1850.8	(dBm)	1850.2	1850	1850.8	(dBm)	1850.2	1850	1850.8	(dBm)
GSM 1 Tx slot	28.72	28.59	28.55	29.50	19.72	19.59	19.55	20.50				
GPRS/EDGE(GMSK) 1 Tx slot	28.74	28.63	28.59	29.50	19.74	19.63	19.59	20.50				
GPRS/EDGE(GMSK) 2 Tx slots	26.08	26.09	26.02	27.00	20.08	20.09	20.02	21.00				
GPRS/EDGE(GMSK) 3 Tx slots	23.19	23.07	23.05	24.50	18.53	18.61	18.79	20.24				
GPRS/EDGE(GMSK) 4 Tx slots	22.18	22.09	21.97	23.50	18.18	18.09	18.97	20.50				
EDGE 1 Tx slot	26.18	26.20	26.10	27.00	17.18	17.20	17.10	18.00				
EDGE 2 Tx slots	24.44	24.41	24.38	25.00	16.44	16.41	16.38	16.00				
EDGE 3 Tx slots	22.77	22.61	22.47	23.50	16.51	16.35	16.21	16.24				
EDGE 4 Tx slots	20.69	20.57	20.50	21.50	17.69	17.67	17.50	18.50				

<GSM>

GSM160_Ant 31	Burst Average Power (dBm)				Tune-up Limit	Frame-Average Power (dBm)				Tune-up Limit		
	128	168	251	Limit		128	168	251	Limit			
TX Channel	128	168	251	Limit	128	168	251	Limit	128	168	251	Limit
Frequency (MHz)	832.2	835.4	848.8	(dBm)	832.2	835.4	848.8	(dBm)	832.2	835.4	848.8	(dBm)
GSM 1 Tx slot	32.30	32.43	32.42	33.50	23.30	23.43	23.42	24.50				
GPRS/EDGE(GMSK) 1 Tx slot	32.28	32.42	32.41	33.50	23.28	23.42	23.41	24.50				
GPRS/EDGE(GMSK) 2 Tx slots	30.19	30.35	30.34	31.50	24.19	24.35	24.34	25.50				
GPRS/EDGE(GMSK) 3 Tx slots	28.01	28.18	28.17	29.50	23.75	23.82	23.81	25.24				
GPRS/EDGE(GMSK) 4 Tx slots	25.78	25.93	25.92	27.50	22.79	22.93	22.92	24.50				
EDGE 1 Tx slot	26.37	26.62	26.61	27.50	17.37	17.62	17.61	18.50				
EDGE 2 Tx slots	24.56	24.61	24.65	25.50	18.56	18.61	18.65	19.50				
EDGE 3 Tx slots	22.28	22.34	22.51	23.50	18.02	18.08	18.26	19.24				
EDGE 4 Tx slots	19.91	20.03	20.16	21.50	16.91	17.03	17.16	18.50				

GSM1800_Ant 31	Burst Average Power (dBm)				Tune-up Limit	Frame-Average Power (dBm)				Tune-up Limit		
	512	661	810	Limit		512	661	810	Limit			
TX Channel	512	661	810	Limit	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1850	1850.8	(dBm)	1850.2	1850	1850.8	(dBm)	1850.2	1850	1850.8	(dBm)
GSM 1 Tx slot	30.08	30.16	30.15	30.50	21.08	21.16	21.15	21.50				
GPRS/EDGE(GMSK) 1 Tx slot	30.06	30.15	30.14	30.50	21.06	21.15	21.14	21.50				
GPRS/EDGE(GMSK) 2 Tx slots	27.44	27.58	27.55	28.00	21.44	21.58	21.55	22.00				
GPRS/EDGE(GMSK) 3 Tx slots	24.80	24.83	24.76	26.00	20.54	20.57	20.50	21.74				
GPRS/EDGE(GMSK) 4 Tx slots	23.46	23.58	23.57	25.00	20.46	20.58	20.57	22.00				
EDGE 1 Tx slot	25.88	26.07	26.24	27.00	18.88	19.07	19.24	18.00				
EDGE 2 Tx slots	24.37	24.48	24.55	25.00	18.37	18.46	18.58	18.00				
EDGE 3 Tx slots	22.55	22.64	22.89	23.50	18.29	18.38	18.43	19.24				
EDGE 4 Tx slots	20.55	20.62	20.61	21.50	17.55	17.62	17.61	18.50				

<WCDMA>

Band	WCDMA II_Ant 13				WCDMA IV_Ant 13				WCDMA V_Ant 13				
	5962	5900	5938	Limit	1512	1413	1513	Limit	4132	4182	4233	Limit	
TX Channel	5962	5900	5938	Limit	1512	1413	1513	Limit	4132	4182	4233	Limit	
Rx Channel	5962	5900	5938	(dBm)	1537	1638	1738	(dBm)	4367	4407	4458	(dBm)	
Frequency (MHz)	1652.4	1650	1657.6	(dBm)	1712.4	1712.6	1712.6	(dBm)	3234	3304	3418	(dBm)	
3GPP Rel 99	19.59	19.63	19.61	20.50	20.38	20.49	20.40	21.50	23.25	23.32	23.30	24.50	
3GPP Rel 6	HS-DSPA Subsect-1	18.72	18.56	18.74	18.50	19.47	19.53	19.45	22.37	22.39	22.47	23.50	
3GPP Rel 6	HS-DSPA Subsect-2	18.55	18.61	18.63	18.50	19.54	19.47	19.42	20.50	22.40	22.42	23.50	
3GPP Rel 6	HS-DSPA Subsect-3	18.07	18.07	18.10	18.00	18.95	18.87	18.99	20.00	21.95	21.96	21.72	23.00
3GPP Rel 6	HS-DSPA Subsect-4	18.14	18.05	18.08	18.00	19.05	18.84	19.01	20.00	21.91	21.93	21.70	23.00
3GPP Rel 6	DC-HSDPA Subsect-1	18.65	18.55	18.70	18.50	19.35	19.46	19.41	20.50	22.30	22.35	22.41	23.50
3GPP Rel 6	DC-HSDPA Subsect-2	18.52	18.51	18.64	18.50	19.47	19.40	19.35	20.50	22.36	22.40	22.20	23.50
3GPP Rel 6	DC-HSDPA Subsect-3	17.98	17.99	18.14	18.00	18.92	18.85	18.90	20.00	21.88	21.94	21.69	23.00
3GPP Rel 6	DC-HSDPA Subsect-4	18.09	17.95	18.07	18.00	19.07	18.83	18.94	20.00	21.85	21.88	21.67	23.00
3GPP Rel 6	HS-UPA Subsect-1	16.75	16.81	16.69	17.50	17.37	17.46	17.48	18.50	21.39	21.46	21.45	22.50
3GPP Rel 6	HS-UPA Subsect-2	16.70	16.70	16.68	17.50	17.45	17.48	17.43	18.50	21.37	21.42	21.41	22.50
3GPP Rel 6	HS-UPA Subsect-3	17.68	17.65	17.73	18.50	18.44	18.48	18.49	19.50	22.38	22.35	22.40	23.50
3GPP Rel 6	HS-UPA Subsect-4	16.10	16.19	16.24	17.00	16.89	17.03	16.97	18.00	20.83	20.85	20.90	22.00
3GPP Rel 6	HS-UPA Subsect-5	17.96	17.62	17.64	18.50	18.35	18.39	18.34	19.50	22.27	22.27	22.30	23.50
3GPP Rel 7	HSPA+ (HCDMA) Subsect-1	18.69	18.76	18.58	17.50	17.45	17.53	18.50	21.35	21.44	21.40	22.50	

Band	WCDMA II_Ant 31				WCDMA IV_Ant 31				WCDMA V_Ant 31				
	5962	5900	5938	Limit	1512	1413	1513	Limit	4132	4182	4233	Limit	
TX Channel	5962	5900	5938	Limit	1512	1413 <td>1513</td> <td>Limit</td> <td>4132</td> <td>4182</td> <td>4233</td> <td>Limit</td>	1513	Limit	4132	4182	4233	Limit	
Rx Channel	5962	5900	5938	(dBm)	1537	1638	1738	(dBm)	4367	4407	4458	(dBm)	
Frequency (MHz)	1652.4	1650	1657.6	(dBm)	1712.4	1712.6	1712.6	(dBm)	3234	3304	3418	(dBm)	
3GPP Rel 99	ARI 12 2kbps	21.24	21.28	21.27	22.00	21.05	21.03	21.08	22.00	23.22	23.24	23.20	24.00
3GPP Rel 6	HS-DSPA Subsect-1	20.25	20.31	20.40	21.00	20.05	20.16	20.10	21.00	22.23	22.25	22.30	23.00
3GPP Rel 6	HS-DSPA Subsect-2	20.16	20.13	20.22	21.00	19.90	20.08	20.06	21.00	22.15	22.13	22.11	23.00
3GPP Rel 6	HS-DSPA Subsect-3	18.79	19.61	19.79	20.50	19.47	19.55	19.66	20.50	21.66	21.78	21.69	22.50
3GPP Rel 6	HS-DSPA Subsect-4	18.70	19.59	19.72	20.50	19.55	19.59	19.59	20.50	21.68	21.62	21.67	22.50
3GPP Rel 6	DC-HSDPA Subsect-1	20.25	20.23	20.38	21.00	19.98	20.05	20.07	21.00	22.19	22.23	22.27	23.00
3GPP Rel 6	DC-HSDPA Subsect-2	20.10	20.04	20.13	21.00	19.84	20.01	20.00	21.00	22.11	22.08	22.07	23.00
3GPP Rel 6	DC-HSDPA Subsect-3	19.76	19.67	19.78	20.50	19.40	19.45	19.55	20.50	21.61	21.73	21.67	22.50
3GPP Rel 6	DC-HSDPA Subsect-4	19.58	19.62	19.73	20.50	19.41	19.51	19.59	20.50	21.66	21.67	21.63	22.50
3GPP Rel 6	HS-UPA Subsect-1	18.40	18.27	18.51	19.20	18.13	18.16	18.16	19.00	21.17	20.98	21.10	22.50
3GPP Rel 6	HS-UPA Subsect-2	18.25	18.28	18.45	19.20	18.11	18.13	18.17	19.00	21.00	21.07	21.00	22.50
3GPP Rel 6	HS-UPA Subsect-3	19.30	19.27	19.51	20.00	19.11	19.12	19.12	20.00	21.94	22.00		



Band 2_Ant 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								
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	19.36	19.38	19.39	20.6	0
20	QPSK	1	49	19.36	19.68	19.69		
20	QPSK	1	99	19.29	19.33	19.33		
20	QPSK	50	0	19.39	19.30	19.19		
20	QPSK	50	24	19.45	19.11	19.11		
20	QPSK	50	50	19.17	19.20	19.20	20.6	0
20	QPSK	100	0	19.52	19.60	19.37		
20	16QAM	1	0	19.36	19.34	19.35		
20	16QAM	1	49	19.62	19.53	19.65	20.6	0
20	16QAM	1	99	19.45	19.47	19.36		
20	16QAM	50	0	19.43	19.38	19.31		
20	16QAM	50	24	19.25	19.40	19.41	20.6	0
20	16QAM	50	50	19.23	19.25	19.16		
20	16QAM	100	0	19.21	19.41	19.38		
20	64QAM	1	0	19.45	19.58	19.58		
20	64QAM	1	49	19.65	19.62	19.60	20.6	0
20	64QAM	1	99	19.41	19.53	19.37		
20	64QAM	50	0	19.53	19.52	19.34		
20	64QAM	50	24	19.35	19.47	19.35	20.6	0
20	64QAM	50	50	19.37	19.34	19.32		
20	64QAM	100	0	19.26	19.41	19.36		
Channel				1871.5	1890	1912.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1871.5	1890	1912.5		
15	QPSK	1	0	19.24	19.33	19.32	20.6	0
15	QPSK	1	37	19.67	19.67	19.49		
15	QPSK	1	74	19.25	19.28	19.11		
15	QPSK	36	0	19.37	19.26	19.23	20.6	0
15	QPSK	36	36	19.36	19.28	19.28		
15	QPSK	36	39	19.05	19.16	19.11	20.6	0
15	QPSK	75	0	19.50	19.57	19.30		
15	16QAM	1	0	19.26	19.24	19.31		
15	16QAM	1	37	19.54	19.48	19.60	20.6	0
15	16QAM	1	74	19.36	19.42	19.34		
15	16QAM	36	0	19.31	19.30	19.29	20.6	0
15	16QAM	36	20	19.14	19.30	19.38		
15	16QAM	36	39	19.14	19.18	19.08	20.6	0
15	16QAM	75	0	19.14	19.35	19.22		
15	64QAM	1	0	19.39	19.53	19.54		
15	64QAM	1	37	19.63	19.60	19.57	20.6	0
15	64QAM	1	74	19.33	19.60	19.34		
15	64QAM	36	0	19.41	19.49	19.32		
15	64QAM	36	20	19.27	19.38	19.30	20.6	0
15	64QAM	36	39	19.25	19.24	19.29		
15	64QAM	75	0	19.14	19.39	19.26		
Channel				1885.0	1890	1915.0	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1885.0	1890	1915.0		
10	QPSK	1	0	19.25	19.26	19.27	20.6	0
10	QPSK	1	25	19.42	19.56	19.52		
10	QPSK	1	49	19.23	19.22	19.10		
10	QPSK	25	0	19.35	19.25	19.23	20.6	0
10	QPSK	25	12	19.46	19.50	19.38		
10	QPSK	25	25	19.11	19.24	19.17	20.6	0
10	QPSK	50	0	19.45	19.49	19.28		
10	16QAM	1	0	19.25	19.28	19.29	20.6	0
10	16QAM	1	25	19.52	19.41	19.54		
10	16QAM	1	49	19.38	19.39	19.26		
10	16QAM	25	0	19.36	19.29	19.21	20.6	0
10	16QAM	25	12	19.22	19.32	19.34		
10	16QAM	25	25	19.18	19.17	19.06	20.6	0
10	16QAM	50	0	19.10	19.44	19.28		
10	64QAM	1	0	19.37	19.52	19.56	20.6	0
10	64QAM	1	25	19.54	19.57	19.52		
10	64QAM	1	49	19.31	19.30	19.25		
10	64QAM	25	0	19.45	19.46	19.25	20.6	0
10	64QAM	25	12	19.22	19.35	19.32		
10	64QAM	25	25	19.26	19.30	19.25		
10	64QAM	50	0	19.19	19.29	19.31	20.6	0
Channel				1882.5	1890	1917.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1882.5	1890	1917.5		
5	QPSK	1	0	19.24	19.32	19.31	20.6	0
5	QPSK	1	12	19.42	19.60	19.52		
5	QPSK	1	24	19.19	19.31	19.25		
5	QPSK	12	0	19.36	19.18	19.31	20.6	0
5	QPSK	12	7	19.44	19.56	19.47		
5	QPSK	12	13	19.11	19.25	19.15	20.6	0
5	QPSK	25	0	19.47	19.48	19.25		
5	16QAM	1	0	19.33	19.25	19.23	20.6	0
5	16QAM	1	12	19.58	19.43	19.52		
5	16QAM	1	24	19.41	19.44	19.26		
5	16QAM	12	0	19.35	19.26	19.26	20.6	0
5	16QAM	12	7	19.13	19.32	19.38		
5	16QAM	12	13	19.17	19.13	19.07	20.6	0
5	16QAM	25	0	19.09	19.38	19.32		
5	64QAM	1	0	19.41	19.45	19.51	20.6	0
5	64QAM	1	12	19.61	19.50	19.54		
5	64QAM	1	24	19.34	19.41	19.34		
5	64QAM	12	0	19.46	19.40	19.29	20.6	0
5	64QAM	12	7	19.31	19.41	19.32		
5	64QAM	12	13	19.34	19.28	19.29	20.6	0
5	64QAM	25	0	19.16	19.33	19.29		
Channel				1881.5	1890	1918.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1881.5	1890	1918.5		
3	QPSK	1	0	19.31	19.27	19.23	20.6	0
3	QPSK	1	8	19.40	19.60	19.44		
3	QPSK	1	16	19.21	19.25	19.16		
3	QPSK	8	0	19.30	19.18	19.24	20.6	0
3	QPSK	8	4	19.41	19.49	19.38		
3	QPSK	8	7	19.05	19.15	19.18	20.6	0
3	16QAM	1	0	19.32	19.26	19.30		
3	16QAM	1	8	19.57	19.47	19.60	20.6	0
3	16QAM	1	16	19.37	19.43	19.34		
3	16QAM	8	0	19.41	19.32	19.27	20.6	0
3	16QAM	8	4	19.16	19.32	19.36		
3	16QAM	8	7	19.11	19.18	19.11	20.6	0
3	16QAM	15	0	19.15	19.37	19.26		
3	64QAM	1	0	19.34	19.48	19.47	20.6	0
3	64QAM	1	8	19.57	19.58	19.45		
3	64QAM	1	14	19.37	19.48	19.31		
3	64QAM	8	0	19.46	19.41	19.30	20.6	0
3	64QAM	8	4	19.32	19.42	19.27		
3	64QAM	8	7	19.27	19.30	19.23	20.6	0
3	64QAM	15	0	19.16	19.37	19.33		
Channel				1880.7	1890	1919.3	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1880.7	1890	1919.3		
1.4	QPSK	1	0	19.30	19.29	19.37	20.6	0
1.4	QPSK	1	3	19.48	19.64	19.43		
1.4	QPSK	1	5	19.22	19.25	19.17		
1.4	QPSK	3	0	19.34	19.28	19.27	20.6	0
1.4	QPSK	3	1	19.39	19.55	19.41		
1.4	QPSK	3	3	19.11	19.18	19.18	20.6	0
1.4	QPSK	6	0	19.41	19.60	19.29		
1.4	16QAM	1	0	19.26	19.25	19.31	20.6	0
1.4	16QAM	1	3	19.50	19.49	19.59		
1.4	16QAM	1	5	19.33	19.36	19.30		
1.4	16QAM	3	0	19.34	19.31	19.26	20.6	0
1.4	16QAM	3	1	19.14	19.28	19.34		
1.4	16QAM	3	3	19.17	19.16	19.12	20.6	0
1.4	16QAM	6	0	19.15	19.39	19.30		
1.4	64QAM	1	0	19.34	19.47	19.53	20.6	0
1.4	64QAM	1	3	19.61	19.59	19.58		
1.4	64QAM	1	5	19.38	19.44	19.29		
1.4	64QAM	3	0	19.48	19.40	19.31	20.6	0
1.4	64QAM	3	1	19.26	19.37	19.24		
1.4	64QAM	3	3	19.31	19.24	19.28	20.6	0
1.4	64QAM	6	0	19.23	19.31	19.30		

Band 2_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	21.56	21.49	21.53	22.5	0
20	QPSK	1	49	21.56	21.88	21.85		
20	QPSK	1	99	21.65	21.63	21.57		
20	QPSK	50	0	21.82	21.85	21.79	22.5	0
20	QPSK	50	24	21.88	21.32	21.32		
20	QPSK	50	50	21.87	21.71	21.76		



Band 4_Ant 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										
Frequency (MHz)										
20	QPSK	1	0	20.12	20.25	20.27	21.5	0		
20	QPSK	1	49	20.13	20.24	20.27				
20	QPSK	1	99	20.33	20.2	20.16				
20	QPSK	50	0	20.37	20.31	20.55				
20	QPSK	50	24	20.35	20.59	20.55				
20	QPSK	50	50	20.48	20.48	20.35	21.5	0		
20	QPSK	100	0	20.52	20.53	20.37				
20	16QAM	100	0	20.59	20.61	20.58				
20	16QAM	1	49	20.56	20.55	20.58				
20	16QAM	1	99	20.8	20.52	20.63				
20	16QAM	50	0	20.52	20.48	20.48	21.5	0		
20	16QAM	50	24	20.49	20.59	20.34				
20	16QAM	50	50	20.45	20.55	20.37				
20	16QAM	100	0	20.35	20.39	20.37				
20	16QAM	1	0	20.59	20.53	20.61				
20	64QAM	1	49	20.61	20.54	20.48	21.5	0		
20	64QAM	1	99	20.58	20.52	20.58				
20	64QAM	50	0	20.52	20.34	20.56				
20	64QAM	50	24	20.46	20.51	20.41				
20	64QAM	50	50	20.49	20.57	20.37				
20	64QAM	100	0	20.44	20.51	20.38	21.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.01	20.19	20.16			21.5	0
15	QPSK	1	49	20.43	20.48	20.42				
15	QPSK	1	74	20.25	20.14	20.15				
15	QPSK	36	0	20.25	20.24	20.46				
15	QPSK	36	36	20.47	20.47	20.47				
15	QPSK	36	39	20.37	20.39	20.30	21.5	0		
15	QPSK	75	0	20.44	20.46	20.28				
15	16QAM	1	49	20.48	20.55	20.57				
15	16QAM	1	37	20.44	20.48	20.51				
15	16QAM	1	74	20.57	20.42	20.60				
15	16QAM	36	0	20.46	20.39	20.32	21.5	0		
15	16QAM	36	20	20.47	20.51	20.31				
15	16QAM	36	39	20.33	20.43	20.29				
15	16QAM	75	0	20.30	20.34	20.33				
15	64QAM	1	0	20.52	20.48	20.55				
15	64QAM	1	37	20.57	20.44	20.37	21.5	0		
15	64QAM	1	74	20.63	20.44	20.50				
15	64QAM	36	0	20.47	20.32	20.44				
15	64QAM	36	20	20.41	20.40	20.29				
15	64QAM	36	39	20.38	20.47	20.29				
15	64QAM	75	0	20.35	20.41	20.27	21.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.00	20.15	20.16			21.5	0
10	QPSK	1	25	20.48	20.58	20.42				
10	QPSK	1	49	20.21	20.08	20.15				
10	QPSK	25	0	20.28	20.28	20.48				
10	QPSK	25	12	20.51	20.54	20.47				
10	QPSK	25	25	20.42	20.36	20.31	21.5	0		
10	QPSK	50	0	20.41	20.43	20.28				
10	16QAM	1	0	20.51	20.50	20.48				
10	16QAM	1	25	20.54	20.48	20.50				
10	16QAM	1	49	20.49	20.47	20.53				
10	16QAM	25	0	20.41	20.38	20.36	21.5	0		
10	16QAM	25	12	20.43	20.47	20.31				
10	16QAM	25	25	20.50	20.52	20.27				
10	16QAM	50	0	20.28	20.27	20.07				
10	64QAM	1	0	20.52	20.50	20.58				
10	64QAM	1	25	20.59	20.48	20.37	21.5	0		
10	64QAM	1	49	20.46	20.43	20.58				
10	64QAM	25	0	20.41	20.31	20.48				
10	64QAM	25	12	20.42	20.43	20.33				
10	64QAM	25	25	20.46	20.52	20.28				
10	64QAM	50	0	20.40	20.49	20.35	21.5	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.10	20.23	20.20			21.5	0
5	QPSK	1	12	20.47	20.52	20.39				
5	QPSK	1	24	20.30	20.18	20.24				
5	QPSK	12	0	20.29	20.20	20.52				
5	QPSK	12	7	20.50	20.51	20.54				
5	QPSK	12	13	20.37	20.44	20.25	21.5	0		
5	QPSK	25	0	20.45	20.51	20.30				
5	16QAM	1	0	20.55	20.56	20.51				
5	16QAM	1	12	20.50	20.45	20.48				
5	16QAM	1	24	20.58	20.41	20.60				
5	16QAM	12	0	20.49	20.44	20.37	21.5	0		
5	16QAM	12	7	20.37	20.45	20.28				
5	16QAM	12	13	20.34	20.44	20.31				
5	16QAM	25	0	20.28	20.31	20.05				
5	64QAM	1	0	20.51	20.46	20.56				
5	64QAM	1	12	20.50	20.47	20.37	21.5	0		
5	64QAM	1	24	20.48	20.45	20.48				
5	64QAM	12	0	20.41	20.24	20.48				
5	64QAM	12	7	20.40	20.45	20.37				
5	64QAM	12	13	20.45	20.55	20.33				
5	64QAM	25	0	20.40	20.49	20.35	21.5	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.09	20.16	20.24			21.5	0
3	QPSK	1	8	20.45	20.53	20.40				
3	QPSK	1	16	20.24	20.14	20.07				
3	QPSK	8	0	20.27	20.20	20.59				
3	QPSK	8	4	20.43	20.55	20.48				
3	QPSK	8	7	20.39	20.42	20.33	21.5	0		
3	QPSK	15	0	20.44	20.51	20.32				
3	16QAM	1	0	20.54	20.57	20.47				
3	16QAM	1	8	20.49	20.48	20.52				
3	16QAM	1	16	20.58	20.41	20.62				
3	16QAM	8	0	20.45	20.40	20.38	21.5	0		
3	16QAM	8	4	20.45	20.53	20.29				
3	16QAM	8	7	20.42	20.52	20.30				
3	16QAM	15	0	20.28	20.31	20.15				
3	64QAM	1	0	20.48	20.50	20.52				
3	64QAM	1	8	20.51	20.51	20.44	21.5	0		
3	64QAM	1	14	20.56	20.48	20.48				
3	64QAM	8	0	20.47	20.39	20.49				
3	64QAM	8	4	20.39	20.45	20.35				
3	64QAM	8	7	20.44	20.50	20.29				
3	64QAM	15	0	20.40	20.48	20.38	21.5	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.07	20.20	20.15			21.5	0
1.4	QPSK	1	3	20.50	20.54	20.38				
1.4	QPSK	1	5	20.31	20.15	20.07				
1.4	QPSK	3	0	20.26	20.27	20.48				
1.4	QPSK	3	1	20.43	20.52	20.48				
1.4	QPSK	3	3	20.38	20.40	20.29	21.5	0		
1.4	QPSK	6	0	20.42	20.49	20.33				
1.4	16QAM	1	0	20.57	20.57	20.51				
1.4	16QAM	1	3	20.54	20.49	20.55				
1.4	16QAM	1	5	20.52	20.49	20.56				
1.4	16QAM	3	0	20.46	20.38	20.33	21.5	0		
1.4	16QAM	3	1	20.41	20.53	20.31				
1.4	16QAM	3	3	20.34	20.49	20.29				
1.4	16QAM	6	0	20.24	20.31	20.15				
1.4	64QAM	1	0	20.49	20.51	20.54				
1.4	64QAM	1	3	20.56	20.50	20.47	21.5	0		
1.4	64QAM	1	5	20.50	20.45	20.46				
1.4	64QAM	3	0	20.47	20.30	20.48				
1.4	64QAM	3	1	20.40	20.47	20.37				
1.4	64QAM	3	3	20.43	20.53	20.26				
1.4	64QAM	6	0	20.37	20.41	20.27	21.5	0		

Band 4_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.12	21.04	21.17	22	0		
20	QPSK	1	49	21.11	21.24	21.17				
20	QPSK	1	99	20.91	20.87	20.94				
20	QPSK	50	0	21.15	21.15	21.15				
20	QPSK	50	24	21.18	21.22	21.22				
20	QPSK	50	50	21.15	21.15	21.18	22	0		
20	QPSK	100	0	21.14	21.20	21.19				
20	16QAM	100	0	21.19	21.19	21.17				
20	16QAM	1	49	21.14	21.22	21.14				
20	16QAM	1	99	21.21	21.17	21.16				
20	16QAM	50	0	21.17	21.14	21.14	22	0		
20	16QAM	50	24	21.16	21.20	21.21				
20	16QAM	50	50	21.22	21.14	21.21				
20	16QAM	100	0	21.15	21.15	21.15				
20	64QAM	1	0	21.15	21.17	21.16				
20	64QAM	1	49	21.14	21.19	21.22	22	0		
20	64QAM	1	99	21.21	21.14	21.16				
20	64QAM	50	0	20.31	20.35	20.26				
20	64QAM	50	24	20.29	20.33	20.26				
20	64QAM	50	50	20.33	20.51	20.26				
20	64QAM	100	0	20.36	20.42	20.16	21	1		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.02	20.96	21.14			22	0
15	QPSK	1	49	21.06	21.13	21.12				
15	QPSK	1	74	20.90	20.81	20.92				



Band 5_Ant 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								
Frequency (MHz)								
10	QPSK	1	0	23.08	23.19	23.03	24.5	0
10	QPSK	1	25	23.08	23.11	23.03		
10	QPSK	1	49	23.11	23.11	22.96		
10	QPSK	25	0	22.03	22.13	22.09	23.5	1
10	QPSK	25	12	22.03	22.04	22.04		
10	QPSK	25	25	22.02	22.10	22.03		
10	16QAM	50	0	22.15	22.20	22.18	23.5	1
10	16QAM	50	0	22.55	22.10	22.97		
10	16QAM	50	0	22.76	22.77	22.75		
10	16QAM	1	49	22.99	22.73	22.80	22.5	2
10	16QAM	25	0	21.07	21.07	20.95		
10	16QAM	25	12	21.29	21.31	21.31		
10	16QAM	25	25	20.93	21.04	20.98	22.5	2
10	16QAM	50	0	21.07	21.11	21.02		
10	16QAM	50	0	21.49	21.50	21.39		
10	64QAM	1	25	21.53	21.54	21.49	22.5	2
10	64QAM	1	49	21.40	21.46	21.45		
10	64QAM	25	0	20.18	20.19	20.16		
10	64QAM	25	12	20.22	20.27	20.20	21.5	3
10	64QAM	25	25	20.04	20.14	20.03		
10	64QAM	50	0	20.17	20.22	20.16		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.04	23.05	22.90	24.5	0
5	QPSK	1	12	23.17	23.08	22.95		
5	QPSK	1	24	23.02	23.06	22.91		
5	QPSK	12	0	21.99	22.07	21.98	23.5	1
5	QPSK	12	7	22.08	22.23	22.08		
5	QPSK	12	13	21.92	22.00	22.00		
5	QPSK	25	0	22.08	22.07	22.05	23.5	1
5	16QAM	1	12	22.50	22.61	22.50		
5	16QAM	1	12	22.74	22.73	22.75		
5	16QAM	1	24	22.57	22.58	22.48	22.5	2
5	16QAM	12	7	20.90	20.89	20.82		
5	16QAM	12	7	21.29	21.19	21.17		
5	16QAM	12	13	20.83	20.90	20.91	22.5	2
5	16QAM	25	0	20.95	20.98	20.95		
5	64QAM	1	0	21.47	21.47	21.29		
5	64QAM	1	12	21.52	21.52	21.46	22.5	2
5	64QAM	1	24	21.30	21.38	21.45		
5	64QAM	12	0	20.09	20.07	20.12		
5	64QAM	12	7	20.13	20.12	20.11	21.5	3
5	64QAM	12	13	19.94	20.03	19.98		
5	64QAM	25	0	20.08	20.13	20.11		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.93	23.05	22.90	24.5	0
3	QPSK	1	8	23.17	23.09	23.06		
3	QPSK	1	14	23.02	23.11	22.90		
3	QPSK	8	0	21.93	22.10	21.99	23.5	1
3	QPSK	8	4	22.17	22.16	22.14		
3	QPSK	8	7	21.91	22.09	21.90		
3	QPSK	15	0	22.06	22.18	22.14	23.5	1
3	16QAM	1	0	22.40	22.70	22.63		
3	16QAM	1	8	22.65	22.74	22.69		
3	16QAM	1	14	22.45	22.70	22.46	22.5	2
3	16QAM	8	0	21.00	21.00	20.93		
3	16QAM	8	4	21.28	21.54	21.21		
3	16QAM	8	7	20.87	21.01	20.84	22.5	2
3	16QAM	15	0	20.94	21.04	20.87		
3	16QAM	15	0	21.48	21.48	21.30		
3	64QAM	1	8	21.51	21.50	21.43	22.5	2
3	64QAM	1	14	21.32	21.33	21.32		
3	64QAM	8	0	20.06	20.10	20.04		
3	64QAM	8	4	20.07	20.15	20.17	21.5	3
3	64QAM	8	7	20.04	20.08	19.99		
3	64QAM	15	0	20.02	20.11	20.02		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.03	23.10	23.00	24.5	0
1.4	QPSK	1	3	23.20	23.09	23.02		
1.4	QPSK	1	5	23.05	23.07	22.98		
1.4	QPSK	3	0	23.08	23.08	22.89	23.5	1
1.4	QPSK	3	1	23.02	22.98	22.84		
1.4	QPSK	3	3	23.09	23.06	22.98		
1.4	QPSK	6	0	22.04	22.17	22.04	23.5	1
1.4	16QAM	1	0	22.43	22.68	22.62		
1.4	16QAM	1	3	22.67	22.66	22.74		
1.4	16QAM	1	5	22.57	22.62	22.45	22.5	2
1.4	16QAM	3	0	22.46	22.66	22.55		
1.4	16QAM	3	1	22.43	22.58	22.56		
1.4	16QAM	3	3	22.52	22.64	22.54	22.5	2
1.4	16QAM	6	0	21.07	21.00	20.99		
1.4	16QAM	6	0	21.47	21.35	21.31		
1.4	64QAM	1	3	21.47	21.44	21.43	22.5	2
1.4	64QAM	1	5	21.31	21.45	21.41		
1.4	64QAM	3	0	21.07	21.05	20.99		
1.4	64QAM	3	1	21.07	21.08	21.01	21.5	3
1.4	64QAM	3	3	21.05	20.99	21.02		
1.4	64QAM	15	0	20.15	20.15	20.14		

Band 5_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.93	22.78	22.92	24	0
10	QPSK	1	25	22.93	23.05	22.92		
10	QPSK	1	49	22.97	22.86	22.75		
10	QPSK	25	0	21.88	21.92	21.8	23	1
10	QPSK	25	12	22.03	22.13	21.95		
10	QPSK	25	25	22.02	22.10	21.84		
10	16QAM	50	0	22.01	22.08	21.95	23	1
10	16QAM	50	0	21.97	22.08	22.13		
10	16QAM	50	0	22.11	22.15	22.13		
10	16QAM	1	49	22.16	22.16	22.02	22	2
10	16QAM	25	0	21.05	21.04	20.88		
10	16QAM	25	12	20.96	21.03	20.98		
10	16QAM	25	25	20.8	20.9	20.98	22	2
10	16QAM	50	0	20.96	20.95	20.9		
10	16QAM	50	0	20.95	21.27	21.33		
10	64QAM	1	0	20.95	21.07	21.18	22	2
10	64QAM	1	25	21.41	21.37	21.38		
10	64QAM	25	0	19.96	20.02	19.94		
10	64QAM	25	12	20.1	20.12	20.03	21	3
10	64QAM	25	25	19.98	19.96	19.74		
10	64QAM	50	0	19.9	20.05	19.8		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.78	22.71	22.82	24	0
5	QPSK	1	12	22.86	22.81	22.81		
5	QPSK	1	24	22.94	22.80	22.75		
5	QPSK	12	0	21.81	21.88	21.77	23	1
5	QPSK	12	7	21.97	22.00	21.83		
5	QPSK	12	13	21.93	21.81	21.60		
5	QPSK	25	0	21.80	21.96	21.82	23	1
5	16QAM	1	12	22.05	22.05	22.05		
5	16QAM	1	12	22.01	22.08	22.08		
5	16QAM	1	24	22.03	21.98	22.08	22	2
5	16QAM	12	7	20.91	20.80	20.74		
5	16QAM	12	7	20.86	20.89	20.92		
5	16QAM	12	13	20.80	20.80	20.67	22	2
5	16QAM	25	0	20.95	20.93	20.79		
5	64QAM	1	0	20.95	21.19	21.30		
5	64QAM	1	12	21.27	21.34	21.07	21	3
5	64QAM	1	24	20.83	20.82	20.81		
5	64QAM	12	0	19.82	19.82	19.85		
5	64QAM	12	7	19.95	20.04	19.98	21	3
5	64QAM	12	13	19.98	19.92	19.85		
5	64QAM	25	0	19.81	19.88	19.69		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.85	22.73	22.85	24	0
3	QPSK	1	8	22.90	22.97	22.89		
3	QPSK	1	14	22.88	22.78	22.60		
3	QPSK	8	0	21.77	21.80	21.67	23	1
3	QPSK	8	4	21.99	22.10	21.79		
3	QPSK	8	7	21.91	21.83	21.65		
3	QPSK	15	0	21.86	22.04	21.80	23	1
3	16QAM	1	0	21.84	22.05	22.04		
3	16QAM	1	8	22.08	22.15	22.08		
3	16QAM	1	14	22.15	21.98	22.15	22	2
3	16QAM	8	0	21.04	20.99	20.74		
3	16QAM	8	4	20.89	20.93	20.83		
3	16QAM	8	7	20.74	20.78	20.59	22	2
3	16QAM	15	0	20.88	20.85	20.69		
3	16QAM	15	0	20.95	21.23	21.29		
3	64QAM	1	8	21.41	21.33	21.04	21	3
3	64QAM	1	14	20.91	20.83	20.89		
3	64QAM	8	0	19.89	19.90	19.86		
3	64QAM	8	4	20.01	20.08	19.93	21	3
3	64QAM	8	7	19.90	19.95	19.73		
3	64QAM	15	0	19.89	20.01	19.50		
Channel								
Frequency (MHz)								
1.4	QPSK	1</						



Band 7_Ant 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								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	17.15	17.24	16.91	18	0
20	QPSK	1	49	17.15	17.24	16.91		
20	QPSK	1	99	17.22	17.26	17.21		
20	QPSK	50	0	17.32	17.31	17.16		
20	QPSK	50	24	17.32	17.36	17.35		
20	QPSK	50	50	17.32	17.27	17.14	18	0
20	QPSK	100	0	17.31	17.34	17.30		
20	16QAM	1	0	17.22	17.21	17.27		
20	16QAM	1	49	17.30	17.27	17.37	18	0
20	16QAM	1	99	17.30	17.06	17.12		
20	16QAM	50	0	17.33	17.35	17.19		
20	16QAM	50	24	17.37	17.28	17.34	18	0
20	16QAM	50	50	17.36	17.23	17.30		
20	16QAM	100	0	17.31	17.32	17.21		
20	64QAM	1	0	17.36	17.17	17.24		
20	64QAM	1	49	17.38	17.23	17.28	18	0
20	64QAM	1	99	17.37	17.25	17.32		
20	64QAM	50	0	17.21	17.27	17.11		
20	64QAM	50	24	17.30	17.34	17.34		
20	64QAM	50	50	17.27	17.34	17.24	18	0
20	64QAM	100	0	17.37	17.30	17.19		
Frequency (MHz)				26075	21100	21375	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				26075.5	2535	2562.5		
15	QPSK	1	0	17.03	17.20	16.89	18	0
15	QPSK	1	37	17.07	17.31	17.22		
15	QPSK	1	74	17.20	17.23	17.12		
15	QPSK	36	0	17.21	17.24	17.09		
15	QPSK	36	20	17.23	17.32	17.26		
15	QPSK	36	39	17.20	17.23	17.03	18	0
15	QPSK	75	0	17.24	17.30	17.18		
15	16QAM	1	0	17.10	17.19	17.08		
15	16QAM	1	37	17.22	17.15	17.32	18	0
15	16QAM	1	74	17.20	16.84	17.08		
15	16QAM	36	0	17.24	17.23	17.14		
15	16QAM	36	20	17.33	17.23	17.29	18	0
15	16QAM	36	39	17.28	17.19	17.19		
15	16QAM	75	0	17.25	17.23	17.26		
15	64QAM	1	0	17.32	17.20	17.20		
15	64QAM	1	37	17.36	17.30	17.25	18	0
15	64QAM	1	74	17.33	17.13	17.29		
15	64QAM	36	0	17.16	17.20	17.02		
15	64QAM	36	20	17.20	17.22	17.22		
15	64QAM	36	39	17.21	17.27	17.13	18	0
15	64QAM	75	0	17.33	17.28	17.17		
Frequency (MHz)				26000	21100	21400	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				26005	2535	2565		
10	QPSK	1	0	17.06	17.15	16.83	18	0
10	QPSK	1	25	17.28	17.29	17.28		
10	QPSK	1	49	17.15	17.21	17.09		
10	QPSK	25	0	17.29	17.23	17.08		
10	QPSK	25	12	17.29	17.24	17.32	18	0
10	QPSK	25	25	17.28	17.29	17.05		
10	QPSK	50	0	17.29	17.32	17.20		
10	16QAM	1	0	17.18	17.19	17.25		
10	16QAM	1	25	17.24	17.15	17.31	18	0
10	16QAM	1	49	17.22	17.00	17.06		
10	16QAM	25	0	17.22	17.28	17.18		
10	16QAM	25	12	17.34	17.19	17.28	18	0
10	16QAM	25	25	17.29	17.16	17.24		
10	16QAM	50	0	17.19	17.25	17.18		
10	64QAM	1	0	17.28	17.15	17.21		
10	64QAM	1	25	17.32	17.27	17.25	18	0
10	64QAM	1	49	17.32	17.15	17.26		
10	64QAM	25	0	17.12	17.19	17.01		
10	64QAM	25	12	17.18	17.32	17.27	18	0
10	64QAM	25	25	17.23	17.29	17.13		
10	64QAM	50	0	17.29	17.22	17.15		
Frequency (MHz)				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				20775.5	2535	2567.5		
5	QPSK	1	0	17.12	17.16	16.82	18	0
5	QPSK	1	12	17.25	17.34	17.32		
5	QPSK	1	24	17.10	17.16	17.15		
5	QPSK	12	0	17.24	17.23	17.08		
5	QPSK	12	7	17.29	17.26	17.24	18	0
5	QPSK	12	13	17.30	17.23	17.02		
5	QPSK	25	0	17.19	17.22	17.24		
5	16QAM	1	0	17.16	17.22	17.32	18	0
5	16QAM	1	12	17.27	17.16	17.34		
5	16QAM	1	24	17.26	17.00	17.06		
5	16QAM	12	0	17.31	17.23	17.11		
5	16QAM	12	7	17.35	17.21	17.28	18	0
5	16QAM	12	13	17.24	17.17	17.22		
5	16QAM	25	0	17.25	17.28	17.18		
5	64QAM	1	0	17.31	17.15	17.20		
5	64QAM	1	12	17.32	17.22	17.20	18	0
5	64QAM	1	24	17.31	17.13	17.28		
5	64QAM	12	0	17.06	17.21	17.08		
5	64QAM	12	7	17.26	17.23	17.28	18	0
5	64QAM	12	13	17.17	17.26	17.22		
5	64QAM	25	0	17.27	17.24	17.10		

Band 7_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.05	22.07	22.02	23	0
20	QPSK	1	49	22.11	22.11	22.03		
20	QPSK	1	99	22.05	22.08	22.06		
20	QPSK	50	0	21.93	22.03	21.83		
20	QPSK	50	24	22.03	22.18	21.85	23	0
20	QPSK	50	50	22.07	22.08	21.97		
20	QPSK	100	0	22.07	22.09	22.07		
20	16QAM	1	0	22.02	22.03	22.03		
20	16QAM	1	49	22.05	22.03	22.04	23	0
20	16QAM	1	99	22.01	22.08	22.06		
20	16QAM	50	0	21.17	21.37	21.14		
20	16QAM	50	24	21.30	21.40	21.38		
20	16QAM	50	50	21.39	21.42	21.06	22	1
20	16QAM	100	0	21.22	21.42	21.12		
20	64QAM	1	0	21.38	21.25	21.27		
20	64QAM	1	49	21.12	21.36	21.16	22	1
20	64QAM	1	99	21.40	21.40	21.24		
20	64QAM	50	0	20.28	20.28	20.15		
20	64QAM	50	24	20.28	20.41	20.21		
20	64QAM	50	50	20.38	20.36	20.11	21	2
20	64QAM	100	0	20.28	20.46	20.17		
Frequency (MHz)				26075	21100	21375	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				26075.5	2535	2562.5		
15	QPSK	1	0	22.03	21.95	21.97	23	0
15	QPSK	1	37	22.07	22.05	22.01		
15	QPSK	1	74	21.95	21.97	21.95		
15	QPSK	36	0	21.81	21.97	21.71		
15	QPSK	36	20	21.99	22.00	21.89	23	0
15	QPSK	36	39	22.01	22.02	21.87		
15	QPSK	75	0	22.01	22.01	22.02		
15	16QAM	1	0	21.85	21.84	21.86		
15	16QAM	1	37	21.97	21.99	21.93	23	0
15	16QAM	1	74	21.95	21.99	22.04		
15	16QAM	36	0	21.08	21.25	21.16		
15	16QAM	36	20	21.20	21.28	21.28	22	1
15	16QAM	36	39	21.28	21.37	21.04		
15	16QAM	75	0	21.16	21.30	21.10		
15	64QAM	1	0	21.27	21.13	21.18	22	1
15	64QAM	1	37	21.29	21.29	21.16		
15	64QAM	36	0	20.24	20.24	20.10		
15	64QAM	36	20	20.17	20.30	20.09		
15	64QAM	36	39	20.31	20.33	20.03	21	2
15	64QAM	75	0	20.19	20.43	20.08		
Frequency (MHz)				26000	21100	21400	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				26005	2535	2565		
10	QPSK	1	0	22.00	22.02	21.94	23	0
10	QPSK	1	25	22.00	22.08	22.04		
10	QPSK	1	49	21.96	21.95	22.00		
10	QPSK	25	0	21.89	21.91	21.77		
10	QPSK	25	12	22.04	22.05	21.87	23	0
10	QPSK	25	25	21.98	21.98	21.81		
10	QPSK	50						



Band 12_Ant 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								
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.80	22.72	22.84	24	0
10	QPSK	1	25	22.80	22.72	22.84		
10	QPSK	1	49	22.83	22.85	22.89		
10	QPSK	25	0	21.86	21.83	21.80	23	1
10	QPSK	25	12	21.86	21.83	21.80		
10	QPSK	25	25	21.80	21.87	21.83		
10	QPSK	50	0	21.79	21.88	21.95	23	1
10	16QAM	1	0	21.74	22.37	22.98		
10	16QAM	1	25	22.11	22.11	22.57		
10	16QAM	1	49	22.92	22.92	22.12	22	2
10	16QAM	25	0	20.72	20.98	20.84		
10	16QAM	25	12	21.00	20.92	20.94		
10	16QAM	25	25	20.96	20.92	20.79	22	2
10	16QAM	50	0	20.84	20.88	20.90		
10	16QAM	50	0	20.88	21.22	21.22		
10	64QAM	1	25	21.37	21.40	21.35	22	2
10	64QAM	1	49	21.33	21.14	20.96		
10	64QAM	25	0	19.82	19.93	19.86		
10	64QAM	25	12	20.10	20.06	19.99	21	3
10	64QAM	25	25	19.99	19.94	19.94		
10	64QAM	50	0	19.95	19.94	20.00		
Channel								
Frequency (MHz)				2305	2306	2310		
5	QPSK	1	0	22.73	22.64	22.76	24	0
5	QPSK	1	12	22.63	22.66	22.67		
5	QPSK	1	24	22.99	22.71	22.71		
5	QPSK	12	0	21.54	21.74	21.85	23	1
5	QPSK	12	7	21.86	21.74	21.88		
5	QPSK	12	13	21.69	21.84	21.73		
5	QPSK	25	0	21.71	21.98	21.85	23	1
5	16QAM	1	0	21.72	22.32	22.93		
5	16QAM	1	12	21.97	22.08	22.45		
5	16QAM	1	24	22.41	22.41	22.07	22	2
5	16QAM	12	0	20.66	20.63	20.71		
5	16QAM	12	7	20.91	20.92	20.79		
5	16QAM	12	13	20.90	20.92	20.86	22	2
5	16QAM	25	0	20.81	20.78	20.83		
5	64QAM	1	0	20.84	21.10	21.12		
5	64QAM	1	12	21.28	21.27	21.33	22	2
5	64QAM	1	24	21.11	21.09	20.95		
5	64QAM	12	0	19.82	19.80	19.84		
5	64QAM	12	7	19.97	19.98	19.88	21	3
5	64QAM	12	13	19.97	19.89	19.80		
5	64QAM	25	0	19.83	19.89	19.85		
Channel								
Frequency (MHz)				2325	2305	2310		
3	QPSK	1	0	22.77	22.62	22.78	24	0
3	QPSK	1	8	22.91	22.98	22.78		
3	QPSK	1	14	22.78	22.75	22.60		
3	QPSK	8	0	21.83	21.80	21.74	23	1
3	QPSK	8	4	21.85	21.75	21.75		
3	QPSK	8	7	21.97	21.82	21.74		
3	QPSK	15	0	21.78	21.85	21.90	23	1
3	16QAM	1	0	21.70	22.28	22.94		
3	16QAM	1	8	21.98	22.06	22.54		
3	16QAM	1	14	22.46	22.38	22.08	22	2
3	16QAM	8	0	20.87	20.80	20.72		
3	16QAM	8	4	20.87	20.81	20.90		
3	16QAM	8	7	20.94	20.88	20.79	22	2
3	16QAM	15	0	20.82	20.82	20.90		
3	64QAM	1	0	20.80	21.16	21.13		
3	64QAM	1	8	21.37	21.30	21.23	22	2
3	64QAM	1	14	21.33	21.02	20.84		
3	64QAM	8	0	19.87	19.88	19.83		
3	64QAM	8	4	20.04	19.94	19.85	21	3
3	64QAM	8	7	19.96	19.89	19.84		
3	64QAM	15	0	19.98	19.93	19.90		
Channel								
Frequency (MHz)				2317	2305	2313		
1.4	QPSK	1	0	22.70	22.74	22.81	24	0
1.4	QPSK	1	3	22.80	22.81	22.85		
1.4	QPSK	1	5	22.80	22.85	22.72		
1.4	QPSK	3	0	22.79	22.82	22.71	23	1
1.4	QPSK	3	1	22.69	22.83	22.74		
1.4	QPSK	3	3	22.81	22.82	22.70		
1.4	QPSK	6	0	21.82	21.87	21.88	23	1
1.4	16QAM	1	0	22.27	21.89	21.92		
1.4	16QAM	1	3	22.19	22.18	21.95		
1.4	16QAM	1	5	21.94	21.97	21.87	22	2
1.4	16QAM	3	0	21.70	21.77	21.79		
1.4	16QAM	3	1	21.83	21.83	21.91		
1.4	16QAM	3	3	21.84	21.73	21.92	22	2
1.4	16QAM	6	0	21.07	21.05	20.99		
1.4	16QAM	1	0	21.25	21.03	20.85		
1.4	64QAM	1	3	21.24	20.89	20.84	22	2
1.4	64QAM	1	5	20.90	21.05	21.19		
1.4	64QAM	3	0	20.95	21.23	21.24		
1.4	64QAM	3	1	21.10	20.76	21.13	21	3
1.4	64QAM	3	3	21.07	21.12	20.99		
1.4	64QAM	15	0	19.96	19.95	19.94		

Band 12_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.71	22.81	22.85	24	0
10	QPSK	1	25	22.80	22.82	22.82		
10	QPSK	1	49	22.83	22.82	22.82		
10	QPSK	25	0	21.53	21.85	21.84	23	1
10	QPSK	25	12	21.74	21.83	21.80		
10	QPSK	25	25	21.73	21.88	21.68		
10	QPSK	50	0	21.86	21.75	21.73	23	1
10	16QAM	1	0	22.08	22.17	22.04		
10	16QAM	1	25	22.34	22.42	22.01		
10	16QAM	1	49	22.04	22.29	22.07	22	2
10	16QAM	25	0	20.70	20.88	20.82		
10	16QAM	25	12	20.86	20.85	20.79		
10	16QAM	25	25	20.94	20.84	20.77	22	2
10	16QAM	50	0	20.71	20.83	20.78		
10	64QAM	1	0	20.92	21.00	21.09		
10	64QAM	1	25	21.06	20.91	20.91	22	2
10	64QAM	1	49	20.93	20.84	20.84		
10	64QAM	25	0	19.88	19.79	19.75		
10	64QAM	25	12	19.91	19.86	19.81	21	3
10	64QAM	25	25	19.88	19.90	19.93		
10	64QAM	50	0	19.74	19.80	19.86		
Channel								
Frequency (MHz)				2305	2305	2310		
5	QPSK	1	0	22.57	22.80	22.58	24	0
5	QPSK	1	12	22.76	22.83	22.83		
5	QPSK	1	24	22.73	22.81	22.71		
5	QPSK	12	0	21.42	21.84	21.84	23	1
5	QPSK	12	7	21.60	21.69	21.70		
5	QPSK	12	13	21.81	21.83	21.51		
5	QPSK	25	0	21.53	21.72	21.71	23	1
5	16QAM	1	0	21.98	22.06	22.06		
5	16QAM	1	12	22.24	22.41	21.95		
5	16QAM	1	24	21.95	22.23	22.06	22	2
5	16QAM	12	0	20.58	20.61	20.68		
5	16QAM	12	7	20.78	20.73	20.74		
5	16QAM	12	13	20.75	20.78	20.72	22	2
5	16QAM	25	0	20.17	20.17	20.81		
5	64QAM	1	0	20.81	20.80	21.02		
5	64QAM	1	12	20.92	20.84	20.77	22	2
5	64QAM	1	24	20.98	20.78	20.77		
5	64QAM	12	0	19.55	19.69	19.70		
5	64QAM	12	7	19.77	19.81	19.78	21	3
5	64QAM	12	13	19.79	19.80	19.80		
5	64QAM	25	0	19.74	19.71	19.73		
Channel								
Frequency (MHz)				2325	2305	2310		
3	QPSK	1	0	22.69	22.82	22.82	24	0
3	QPSK	1	8	22.85	22.87	22.85		
3	QPSK	1	14	22.81	22.78	22.77		
3	QPSK	8	0	21.41	21.83	21.84	23	1
3	QPSK	8	4	21.88	21.72	21.88		
3	QPSK	8	7	21.61	21.68	21.81		
3	QPSK	15	0	21.84	21.86	21.82	23	1
3	16QAM	1	0	22.01	22.11	21.96		
3	16QAM	1	8	22.16	22.31	21.98		
3	16QAM	1	14	21.89	22.23	21.98	22	2
3	16QAM	8	0	20.55	20.84	20.82		
3	16QAM	8	4	20.74	20.84	20.69		
3	16QAM	8	7	20.83	20.71	20.65	22	2
3	16QAM	15	0	20.89	20.83	20.84		
3	64QAM	1	0	20.82	20.95	21.05		
3	64QAM	1	8	21.00	20.90	20.86	22	2
3	64QAM	1	14	20.85	20.82	20.81		
3	64QAM	8	0	19.70	19.70	19.71		
3	64QAM	8	4	19.87	19.77	19		



Band 13_Ant 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 23200								
Frequency (MHz)								
10	QPSK	1	0	23.01	23.01	23.01	24	0
10	QPSK	1	25	22.83	22.83	22.83		
10	QPSK	1	49	22.98	22.98	22.98		
10	QPSK	25	0	21.80	21.80	21.80	23	1
10	QPSK	25	12	21.83	21.83	21.83		
10	QPSK	25	25	21.89	21.89	21.89		
10	QPSK	50	0	21.95	21.95	21.95	23	1
10	16QAM	1	0	22.25	22.25	22.25		
10	16QAM	1	25	22.37	22.37	22.37		
10	16QAM	1	49	22.43	22.43	22.43	22	2
10	16QAM	25	0	20.98	20.98	20.98		
10	16QAM	25	12	21.15	21.15	21.15		
10	16QAM	25	25	20.98	20.98	20.98	22	2
10	16QAM	50	0	20.98	20.98	20.98		
10	64QAM	1	0	21.15	21.15	21.15		
10	64QAM	1	25	21.08	21.08	21.08	22	2
10	64QAM	1	49	21.32	21.32	21.32		
10	64QAM	25	0	19.90	19.90	19.90		
10	64QAM	25	12	20.08	20.08	20.08	21	3
10	64QAM	25	25	19.94	19.94	19.94		
10	64QAM	50	0	19.95	19.95	19.95		
Channel 23250								
Frequency (MHz)								
5	QPSK	1	0	22.99	22.96	22.96	24	0
5	QPSK	1	12	22.86	22.80	22.83		
5	QPSK	1	24	22.97	22.83	22.96		
5	QPSK	12	0	21.79	21.72	21.76	23	1
5	QPSK	12	7	21.96	21.97	21.95		
5	QPSK	12	13	21.84	21.76	21.89		
5	QPSK	25	0	21.88	21.77	21.84	23	1
5	16QAM	1	0	22.21	22.20	22.12		
5	16QAM	1	12	22.37	22.29	22.27		
5	16QAM	1	24	22.32	22.28	22.37	22	2
5	16QAM	12	0	20.72	20.84	20.73		
5	16QAM	12	7	21.01	21.11	21.10		
5	16QAM	12	13	20.88	20.83	20.88	22	2
5	16QAM	25	0	20.90	20.88	20.95		
5	64QAM	1	0	21.00	21.10	21.07		
5	64QAM	1	12	21.06	21.04	21.06	22	2
5	64QAM	1	24	21.22	21.18	21.24		
5	64QAM	12	0	19.90	19.82	19.89		
5	64QAM	12	7	20.02	19.97	20.02	21	3
5	64QAM	12	13	19.91	19.85	19.94		
5	64QAM	25	0	19.80	19.80	19.75		

Band 13_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel 23200								
Frequency (MHz)								
10	QPSK	1	0	22.83	22.83	22.83	24	0
10	QPSK	1	25	22.88	22.88	22.88		
10	QPSK	1	49	22.85	22.85	22.85		
10	QPSK	25	0	21.67	21.67	21.67	23	1
10	QPSK	25	12	21.67	21.67	21.67		
10	QPSK	25	25	21.74	21.74	21.74		
10	QPSK	50	0	21.76	21.76	21.76	23	1
10	16QAM	1	0	21.98	21.98	21.98		
10	16QAM	1	25	22.01	22.01	22.01		
10	16QAM	1	49	21.95	21.95	21.95	22	2
10	16QAM	25	0	20.75	20.75	20.75		
10	16QAM	25	12	20.79	20.79	20.79		
10	16QAM	25	25	20.68	20.68	20.68	22	2
10	16QAM	50	0	20.78	20.78	20.78		
10	64QAM	1	0	21.06	21.06	21.06		
10	64QAM	1	25	21.16	21.16	21.16	22	2
10	64QAM	1	49	20.94	20.94	20.94		
10	64QAM	25	0	19.85	19.85	19.85		
10	64QAM	25	12	19.88	19.88	19.88	21	3
10	64QAM	25	25	19.73	19.73	19.73		
10	64QAM	50	0	19.76	19.76	19.76		
Channel 23250								
Frequency (MHz)								
5	QPSK	1	0	22.82	22.73	22.83	24	0
5	QPSK	1	12	22.81	22.85	22.74		
5	QPSK	1	24	22.72	22.80	22.79		
5	QPSK	12	0	21.53	21.81	21.80	23	1
5	QPSK	12	7	21.85	21.87	21.85		
5	QPSK	12	13	21.05	21.73	21.67		
5	QPSK	25	0	21.75	21.65	21.82	23	1
5	16QAM	1	0	21.93	21.85	21.89		
5	16QAM	1	12	21.94	21.87	21.91		
5	16QAM	1	24	21.91	21.89	21.89	22	2
5	16QAM	12	0	20.70	20.66	20.69		
5	16QAM	12	7	20.84	20.98	20.76		
5	16QAM	12	13	20.57	20.67	20.58	22	2
5	16QAM	25	0	20.77	20.75	20.75		
5	64QAM	1	0	21.04	21.02	21.05		
5	64QAM	1	12	21.16	21.06	21.16	22	2
5	64QAM	1	24	20.85	20.91	20.82		
5	64QAM	12	0	19.70	19.71	19.79		
5	64QAM	12	7	19.85	19.74	19.75	21	3
5	64QAM	12	13	19.72	19.69	19.64		
5	64QAM	25	0	19.67	19.66	19.75		



Band 17_Ant 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								
Frequency (MHz)				2370	2390	2390		
10	QPSK	1	0	22.73	22.85	22.86	24	0
10	QPSK	1	25	22.83	22.95	22.96		
10	QPSK	1	49	22.86	22.86	22.93		
10	QPSK	25	0	21.80	21.77	21.72	23	1
10	QPSK	25	12	21.83	21.80	21.83		
10	QPSK	25	25	21.81	21.84	21.76		
10	QPSK	50	0	21.81	21.88	21.78	23	1
10	16QAM	1	0	22.08	22.04	22.35		
10	16QAM	1	25	22.49	22.05	22.05		
10	16QAM	1	49	22.35	22.05	22.23	22	2
10	16QAM	25	0	20.86	20.82	20.77		
10	16QAM	25	12	20.88	20.94	20.87		
10	16QAM	25	25	21.00	20.84	20.84	22	2
10	16QAM	50	0	20.81	20.83	20.83		
10	64QAM	1	0	21.19	21.18	21.14		
10	64QAM	1	25	21.39	21.27	21.21	22	2
10	64QAM	1	49	21.12	21.16	21.09		
10	64QAM	25	0	19.94	19.88	19.89		
10	64QAM	25	12	20.00	19.82	19.98	21	3
10	64QAM	25	25	19.95	19.88	19.78		
10	64QAM	50	0	19.86	19.88	19.83		
Channel				2370	2390	2390	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.58	22.72	22.86	24	0
5	QPSK	1	12	22.87	22.86	22.86		
5	QPSK	1	24	22.74	22.76	22.85		
5	QPSK	12	0	21.74	21.7	21.67	23	1
5	QPSK	12	7	21.75	21.78	21.8		
5	QPSK	12	13	21.69	21.81	21.73		
5	QPSK	25	0	21.76	21.82	21.65	23	1
5	16QAM	1	0	22.04	22.01	22.28		
5	16QAM	1	12	22.48	22.05	22.1		
5	16QAM	1	24	22.22	22.03	22.14	22	2
5	16QAM	12	0	20.79	20.69	20.74		
5	16QAM	12	7	20.79	20.93	20.73		
5	16QAM	12	13	20.91	20.72	20.82	22	2
5	16QAM	25	0	20.76	20.68	20.68		
5	64QAM	1	0	21.11	21.09	21.09		
5	64QAM	1	12	21.32	21.18	21.07	22	2
5	64QAM	1	24	21.06	21.12	21.06		
5	64QAM	12	0	19.87	19.73	19.76		
5	64QAM	12	7	19.98	19.86	19.84	21	3
5	64QAM	12	13	19.8	19.77	19.71		
5	64QAM	25	0	19.71	19.75	19.79		

Band 17_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				706	710	711		
10	QPSK	1	0	22.69	22.72	22.62	24	0
10	QPSK	1	25	22.81	22.88	22.82		
10	QPSK	1	49	22.72	22.70	22.75		
10	QPSK	25	0	21.84	21.73	21.59	23	1
10	QPSK	25	12	21.73	21.78	21.77		
10	QPSK	25	25	21.89	21.74	21.64		
10	QPSK	50	0	21.70	21.72	21.66	23	1
10	16QAM	1	0	21.80	22.07	22.15		
10	16QAM	1	25	21.76	22.04	21.89		
10	16QAM	1	49	22.10	22.09	21.91	22	2
10	16QAM	25	0	20.78	20.73	20.73		
10	16QAM	25	12	20.79	20.79	20.76		
10	16QAM	25	25	20.79	20.72	20.71	22	2
10	16QAM	50	0	20.81	20.78	20.71		
10	64QAM	1	0	20.92	20.73	21.10		
10	64QAM	1	25	20.91	21.18	20.96	22	2
10	64QAM	1	49	20.79	20.93	21.08		
10	64QAM	25	0	19.76	19.60	19.76		
10	64QAM	25	12	19.89	19.86	19.89	21	3
10	64QAM	25	25	19.87	19.83	19.67		
10	64QAM	50	0	19.89	19.79	19.69		
Channel				2370	2390	2390	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.84	22.82	22.80	24	0
5	QPSK	1	12	22.71	22.80	22.79		
5	QPSK	1	24	22.57	22.81	22.83		
5	QPSK	12	0	21.60	21.71	21.45	23	1
5	QPSK	12	7	21.59	21.72	21.64		
5	QPSK	12	13	21.62	21.69	21.62		
5	QPSK	25	0	21.66	21.89	21.53	23	1
5	16QAM	1	0	21.69	22.03	22.13		
5	16QAM	1	12	21.64	21.94	21.81		
5	16QAM	1	24	22.03	22.07	21.88	22	2
5	16QAM	12	0	20.66	20.70	20.68		
5	16QAM	12	7	20.75	20.74	20.72		
5	16QAM	12	13	20.85	20.69	20.68	22	2
5	16QAM	25	0	20.73	20.77	20.65		
5	64QAM	1	0	20.80	20.81	21.09		
5	64QAM	1	12	20.84	21.08	20.92	22	2
5	64QAM	1	24	20.64	20.81	21.05		
5	64QAM	12	0	19.72	19.76	19.65		
5	64QAM	12	7	19.93	19.78	19.78	21	3
5	64QAM	12	13	19.73	19.68	19.60		
5	64QAM	25	0	19.79	19.68	19.61		



Band 18_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	22.97	22.97	22.97	24.5	0
15	QPSK	1	37	23.20	23.20	23.20		
15	QPSK	1	74	23.00	23.00	23.00		
15	QPSK	36	0	22.12	22.12	22.12	23.5	1
15	QPSK	36	20	22.31	22.31	22.31		
15	QPSK	36	39	22.25	22.25	22.25		
15	QPSK	75	0	22.23	22.23	22.23	23.5	1
15	16QAM	1	0	22.24	22.24	22.24		
15	16QAM	1	37	22.51	22.51	22.51		
15	16QAM	1	74	22.53	22.53	22.53	22.5	2
15	16QAM	36	0	21.17	21.17	21.17		
15	16QAM	36	20	21.27	21.27	21.27		
15	16QAM	36	39	21.16	21.16	21.16	22.5	2
15	16QAM	75	0	21.28	21.28	21.28		
15	64QAM	1	0	21.17	21.17	21.17		
15	64QAM	1	37	21.38	21.38	21.38	22.5	2
15	64QAM	1	74	21.91	21.91	21.91		
15	64QAM	36	0	20.24	20.24	20.24		
15	64QAM	36	20	20.19	20.19	20.19	21.5	3
15	64QAM	36	39	20.25	20.25	20.25		
15	64QAM	75	0	20.16	20.16	20.16		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.92	22.91	22.86	24.5	0
10	QPSK	1	25	23.17	23.09	23.18		
10	QPSK	1	49	22.93	22.89	22.87		
10	QPSK	25	0	22.00	22.05	22.00	23.5	1
10	QPSK	25	12	22.17	22.17	22.25		
10	QPSK	25	25	22.25	22.14	22.14		
10	QPSK	50	0	22.23	22.20	22.21	23.5	1
10	16QAM	1	0	22.09	22.13	22.23		
10	16QAM	1	25	22.42	22.47	22.40		
10	16QAM	1	49	22.49	22.53	22.44	22.5	2
10	16QAM	25	0	21.05	21.02	21.13		
10	16QAM	25	12	21.13	21.22	21.15		
10	16QAM	25	25	21.13	21.07	21.16	22.5	2
10	16QAM	50	0	21.18	21.19	21.18		
10	64QAM	1	0	21.02	21.11	21.08		
10	64QAM	1	25	21.34	21.29	21.36	22.5	2
10	64QAM	1	49	20.93	20.89	20.88		
10	64QAM	25	0	20.24	20.21	20.23		
10	64QAM	25	12	20.10	20.09	20.18	21.5	3
10	64QAM	25	25	20.23	20.17	20.14		
10	64QAM	50	0	20.08	20.09	20.08		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.93	22.91	22.96	24.5	0
5	QPSK	1	12	23.16	23.17	23.13		
5	QPSK	1	24	22.99	22.87	22.97		
5	QPSK	12	0	22.01	22.01	22.06	23.5	1
5	QPSK	12	7	22.19	22.27	22.28		
5	QPSK	12	13	22.22	22.14	22.18		
5	QPSK	25	0	22.12	22.16	22.22	23.5	1
5	16QAM	1	0	22.17	22.09	22.23		
5	16QAM	1	12	22.39	22.42	22.37		
5	16QAM	1	24	22.50	22.52	22.53	22.5	2
5	16QAM	12	0	21.02	21.03	21.09		
5	16QAM	12	7	21.20	21.22	21.21		
5	16QAM	12	13	21.16	21.10	21.08	22.5	2
5	16QAM	25	0	21.29	21.17	21.18		
5	64QAM	1	0	21.07	21.17	21.02		
5	64QAM	1	12	21.32	21.23	21.37	22.5	2
5	64QAM	1	24	20.95	21.00	20.90		
5	64QAM	12	0	20.21	20.10	20.22		
5	64QAM	12	7	20.07	20.10	20.11	21.5	3
5	64QAM	12	13	20.20	20.10	20.12		
5	64QAM	25	0	20.05	20.09	20.12		

Band 18_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.76	22.76	22.76	24	0
15	QPSK	1	37	22.53	22.53	22.53		
15	QPSK	1	74	22.89	22.89	22.89		
15	QPSK	36	0	21.88	21.88	21.88	23	1
15	QPSK	36	20	21.98	21.98	21.98		
15	QPSK	36	39	21.88	21.88	21.88		
15	QPSK	75	0	21.91	21.91	21.91	23	1
15	16QAM	1	0	22.12	22.12	22.12		
15	16QAM	1	37	22.50	22.50	22.50		
15	16QAM	1	74	22.06	22.06	22.06	22	2
15	16QAM	36	0	20.94	20.94	20.94		
15	16QAM	36	20	20.99	20.99	20.99		
15	16QAM	36	39	21.01	21.01	21.01	22	2
15	16QAM	75	0	20.95	20.95	20.95		
15	64QAM	1	0	20.95	20.95	20.95		
15	64QAM	1	37	21.33	21.33	21.33	22	2
15	64QAM	1	74	21.21	21.21	21.21		
15	64QAM	36	0	19.93	19.93	19.93		
15	64QAM	36	20	19.97	19.97	19.97	21	3
15	64QAM	36	39	19.99	19.99	19.99		
15	64QAM	75	0	19.93	19.93	19.93		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.81	22.84	22.74	24	0
10	QPSK	1	25	22.83	22.87	22.86		
10	QPSK	1	49	22.75	22.84	22.81		
10	QPSK	25	0	21.84	21.81	21.86	23	1
10	QPSK	25	12	21.87	21.86	21.83		
10	QPSK	25	25	21.78	21.73	21.75		
10	QPSK	50	0	21.77	21.82	21.88	23	1
10	16QAM	1	0	22.09	22.05	22.12		
10	16QAM	1	25	22.44	22.40	22.48		
10	16QAM	1	49	22.03	21.99	22.04	22	2
10	16QAM	25	0	20.92	20.99	20.99		
10	16QAM	25	12	20.94	20.87	20.99		
10	16QAM	25	25	21.01	20.95	21.01	22	2
10	16QAM	50	0	20.81	20.94	20.81		
10	64QAM	1	0	21.05	21.00	21.05		
10	64QAM	1	25	21.27	21.32	21.29	22	2
10	64QAM	1	49	21.17	21.18	21.11		
10	64QAM	25	0	19.88	19.86	19.80		
10	64QAM	25	12	19.90	19.88	19.92	21	3
10	64QAM	25	25	19.94	19.88	19.94		
10	64QAM	50	0	19.87	19.86	19.92		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.62	22.65	22.65	24	0
5	QPSK	1	12	22.86	22.84	22.85		
5	QPSK	1	24	22.79	22.74	22.83		
5	QPSK	12	0	21.87	21.87	21.81	23	1
5	QPSK	12	7	21.93	21.81	21.94		
5	QPSK	12	13	21.74	21.85	21.75		
5	QPSK	25	0	21.82	21.81	21.90	23	1
5	16QAM	1	0	21.99	22.04	22.00		
5	16QAM	1	12	22.35	22.46	22.36		
5	16QAM	1	24	22.03	22.02	21.96	22	2
5	16QAM	12	0	20.81	20.93	20.94		
5	16QAM	12	7	20.92	20.83	20.84		
5	16QAM	12	13	20.95	20.95	20.95	22	2
5	16QAM	25	0	20.92	20.85	20.87		
5	64QAM	1	0	20.85	20.85	20.85		
5	64QAM	1	12	21.23	21.21	21.24	22	2
5	64QAM	1	24	21.16	21.13	21.08		
5	64QAM	12	0	19.85	19.90	19.86		
5	64QAM	12	7	19.82	19.87	19.93	21	3
5	64QAM	12	13	19.91	19.87	19.88		
5	64QAM	25	0	19.83	19.87	19.86		



Band 19_Ant 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								
Frequency (MHz)								
15	QPSK	1	0		23.06		24.5	0
15	QPSK	1	37		23.02			
15	QPSK	1	74		23.05			
15	QPSK	36	0		22.19		23.5	1
15	QPSK	36	20		22.24			
15	QPSK	36	39		22.06			
15	QPSK	75	0		22.16		23.5	1
15	16QAM	1	0		22.31			
15	16QAM	1	37		22.37			
15	16QAM	1	74		22.45		22.5	2
15	16QAM	36	0		21.09			
15	16QAM	36	20		21.26			
15	16QAM	36	39		21.20		22.5	2
15	16QAM	75	0		21.19			
15	64QAM	1	0		21.50			
15	64QAM	1	37		21.07		22.5	2
15	64QAM	1	74		21.15			
15	64QAM	36	0		20.23			
15	64QAM	36	20		20.42		21.5	3
15	64QAM	36	39		20.14			
15	64QAM	75	0		20.18			
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.02	22.97	23.06	24.5	0
10	QPSK	1	25	23.15	23.18	23.12		
10	QPSK	1	49	22.98	22.91	23.04		
10	QPSK	25	0	22.08	22.16	22.17	23.5	1
10	QPSK	25	12	22.11	22.24	22.14		
10	QPSK	25	25	21.99	21.92	21.96		
10	QPSK	50	0	22.07	22.13	22.12	23.5	1
10	16QAM	1	0	22.26	22.23	22.18		
10	16QAM	1	25	22.35	22.36	22.29		
10	16QAM	1	49	22.30	22.32	22.31	22.5	2
10	16QAM	25	0	21.03	21.08	21.03		
10	16QAM	25	12	21.12	21.26	21.24		
10	16QAM	25	25	21.07	21.08	21.06	22.5	2
10	16QAM	50	0	21.14	21.04	21.08		
10	64QAM	1	0	21.35	21.45	21.49		
10	64QAM	1	25	20.98	20.99	20.99	22.5	2
10	64QAM	1	49	21.06	21.05	21.07		
10	64QAM	25	0	20.08	20.12	20.11		
10	64QAM	25	12	20.26	20.18	20.31	21.5	3
10	64QAM	25	25	20.12	19.69	20.14		
10	64QAM	50	0	20.17	20.07	20.03		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.94	22.94	22.95	24.5	0
5	QPSK	1	12	23.14	23.14	23.06		
5	QPSK	1	24	22.96	23.01	22.94		
5	QPSK	12	0	22.04	22.05	22.06	23.5	1
5	QPSK	12	7	22.23	22.24	22.24		
5	QPSK	12	13	22.04	21.83	21.94		
5	QPSK	25	0	22.07	22.03	22.13	23.5	1
5	16QAM	1	0	22.27	22.20	22.28		
5	16QAM	1	12	22.23	22.36	22.27		
5	16QAM	1	24	22.41	22.34	22.35	22.5	2
5	16QAM	12	0	20.96	21.04	20.97		
5	16QAM	12	7	21.14	21.18	21.21		
5	16QAM	12	13	21.11	21.12	21.10	22.5	2
5	16QAM	25	0	21.04	21.08	21.16		
5	64QAM	1	0	21.43	21.35	21.46		
5	64QAM	1	12	21.00	21.00	21.05	22.5	2
5	64QAM	1	24	21.05	21.13	21.05		
5	64QAM	12	0	20.18	20.15	20.12		
5	64QAM	12	7	20.23	20.20	20.19	21.5	3
5	64QAM	12	13	20.06	20.09	20.01		
5	64QAM	25	0	20.10	20.16	20.03		

Band 19_Ant 31								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0		22.75		24	0
15	QPSK	1	37		22.32			
15	QPSK	1	74		22.73			
15	QPSK	36	0		21.90		23	1
15	QPSK	36	20		21.97			
15	QPSK	36	39		21.95			
15	QPSK	75	0		21.92		23	1
15	16QAM	1	0		22.03			
15	16QAM	1	37		22.10			
15	16QAM	1	74		21.80		22	2
15	16QAM	36	0		20.91			
15	16QAM	36	20		21.03			
15	16QAM	36	39		20.87		22	2
15	16QAM	75	0		20.99			
15	64QAM	1	0		20.96			
15	64QAM	1	37		20.89		22	2
15	64QAM	1	74		21.01			
15	64QAM	36	0		20.05			
15	64QAM	36	20		20.00		21	3
15	64QAM	36	39		19.89			
15	64QAM	75	0		20.00			
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.74	22.74	22.72	24	0
10	QPSK	1	25	22.76	22.81	22.81		
10	QPSK	1	49	22.67	22.61	22.73		
10	QPSK	25	0	21.86	21.89	21.75	23	1
10	QPSK	25	12	21.95	21.88	21.92		
10	QPSK	25	25	21.81	21.91	21.95		
10	QPSK	50	0	21.81	21.86	21.84	23	1
10	16QAM	1	0	21.95	22.00	21.98		
10	16QAM	1	25	21.99	22.03	22.09		
10	16QAM	1	49	21.85	21.69	21.70	22	2
10	16QAM	25	0	20.84	20.79	20.81		
10	16QAM	25	12	20.89	20.98	21.02		
10	16QAM	25	25	20.83	20.78	20.84	22	2
10	16QAM	50	0	20.76	20.86	20.86		
10	64QAM	1	0	20.84	20.88	20.94		
10	64QAM	1	25	20.89	20.76	20.78	22	2
10	64QAM	1	49	20.95	21.01	20.96		
10	64QAM	25	0	20.02	20.04	19.97		
10	64QAM	25	12	19.92	19.99	19.90	21	3
10	64QAM	25	25	19.84	19.77	19.86		
10	64QAM	50	0	19.85	20.00	19.94		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.63	22.68	22.68	24	0
5	QPSK	1	12	22.87	22.85	22.84		
5	QPSK	1	24	22.65	22.63	22.58		
5	QPSK	12	0	21.81	21.87	21.89	23	1
5	QPSK	12	7	21.83	21.94	21.90		
5	QPSK	12	13	21.80	21.81	21.89		
5	QPSK	25	0	21.82	21.85	21.87	23	1
5	16QAM	1	0	22.02	22.03	22.02		
5	16QAM	1	12	21.98	22.06	21.95		
5	16QAM	1	24	21.83	21.59	21.57	22	2
5	16QAM	12	0	20.87	20.76	20.85		
5	16QAM	12	7	20.95	21.00	20.94		
5	16QAM	12	13	20.72	20.82	20.73	22	2
5	16QAM	25	0	20.78	20.81	20.78		
5	64QAM	1	0	20.82	20.84	20.84		
5	64QAM	1	12	20.84	20.76	20.86	22	2
5	64QAM	1	24	20.90	20.95	20.97		
5	64QAM	12	0	20.01	19.94	19.94		
5	64QAM	12	7	19.91	19.98	20.00	21	3
5	64QAM	12	13	19.81	19.81	19.75		
5	64QAM	25	0	19.87	19.85	19.97		



Band 26_Ant 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								
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	23.26	23.41	23.40	24.5	0
15	QPSK	1	37	23.11	23.11	23.11		
15	QPSK	1	74	23.29	23.40	23.38		
15	QPSK	36	0	22.34	22.47	22.46	23.5	1
15	QPSK	36	20	22.22	22.22	22.22		
15	QPSK	36	39	22.39	22.49	22.38		
15	QPSK	75	0	22.60	22.65	22.62	23.5	1
15	16QAM	1	0	23.01	23.01	22.98		
15	16QAM	1	37	22.89	23.03	23.01		
15	16QAM	1	74	22.81	22.83	22.86	22.5	2
15	16QAM	36	0	21.37	21.47	21.44		
15	16QAM	36	20	21.49	21.63	21.58		
15	16QAM	36	39	21.51	21.52	21.41	21.5	3
15	16QAM	75	0	21.39	21.45	21.31		
15	16QAM	1	0	21.84	21.91	21.86		
15	64QAM	1	37	21.92	21.97	21.85	22.5	2
15	64QAM	1	74	21.70	21.74	21.73		
15	64QAM	36	0	20.42	20.55	20.44		
15	64QAM	36	20	20.45	20.51	20.51	21.5	3
15	64QAM	36	39	20.43	20.51	20.45		
15	64QAM	75	0	20.31	20.45	20.30		
Channel				26740	26850	27050	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	23.15	23.32	23.38	24.5	0
10	QPSK	1	25	23.44	23.44	23.40		
10	QPSK	1	49	23.16	23.38	23.38		
10	QPSK	25	0	22.23	22.47	22.30	23.5	1
10	QPSK	25	12	22.88	22.47	22.30		
10	QPSK	25	25	22.39	22.37	22.25		
10	QPSK	50	0	22.57	22.57	22.5	23.5	1
10	16QAM	1	0	23.97	23.92	23.92		
10	16QAM	1	25	22.8	22.9	22.87		
10	16QAM	1	49	22.69	22.81	22.77	22.5	2
10	16QAM	25	0	21.27	21.45	21.42		
10	16QAM	25	12	21.48	21.51	21.56		
10	16QAM	25	25	21.4	21.42	21.35	21.5	3
10	16QAM	50	0	21.27	21.38	21.38		
10	64QAM	1	0	21.81	21.77	21.72		
10	64QAM	1	25	21.88	21.82	21.72	22.5	2
10	64QAM	1	49	21.89	21.71	21.62		
10	64QAM	25	0	20.4	20.45	20.33		
10	64QAM	25	12	20.35	20.48	20.4	21.5	3
10	64QAM	25	25	20.43	20.51	20.33		
10	64QAM	50	0	20.16	20.39	20.18		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819.5	831.5	843.5		
5	QPSK	1	0	23.24	23.32	23.34	24.5	0
5	QPSK	1	12	23.54	23.69	23.51		
5	QPSK	1	24	23.18	23.34	23.33		
5	QPSK	12	0	22.34	22.47	22.43	23.5	1
5	QPSK	12	7	22.81	22.63	22.57		
5	QPSK	12	13	22.28	22.44	22.34		
5	QPSK	25	0	22.55	22.61	22.49	23.5	1
5	16QAM	1	0	22.87	22.83	22.84		
5	16QAM	1	12	22.83	22.99	22.97		
5	16QAM	1	24	22.74	22.83	22.77	22.5	2
5	16QAM	12	0	21.29	21.35	21.33		
5	16QAM	12	7	21.38	21.5	21.58		
5	16QAM	12	13	21.48	21.47	21.29	21.5	3
5	16QAM	25	0	21.35	21.43	21.17		
5	64QAM	1	0	21.8	21.79	21.8		
5	64QAM	1	12	21.91	21.97	21.72	22.5	2
5	64QAM	1	24	21.67	21.68	21.68		
5	64QAM	12	0	20.34	20.51	20.36		
5	64QAM	12	7	20.41	20.48	20.45	21.5	3
5	64QAM	12	13	20.29	20.43	20.35		
5	64QAM	25	0	20.31	20.35	20.25		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819.5	831.5	843.5		
3	QPSK	1	0	23.19	23.41	23.34	24.5	0
3	QPSK	1	8	23.44	23.61	23.59		
3	QPSK	1	14	23.21	23.29	23.28		
3	QPSK	8	0	22.28	22.30	22.4	23.5	1
3	QPSK	8	4	22.55	22.72	22.45		
3	QPSK	8	7	22.3	22.44	22.23		
3	QPSK	15	0	22.5	22.55	22.61	23.5	1
3	16QAM	1	0	22.93	22.88	22.98		
3	16QAM	1	8	22.86	22.88	22.95		
3	16QAM	1	14	22.79	22.8	22.79	22.5	2
3	16QAM	8	0	21.24	21.46	21.38		
3	16QAM	8	4	21.47	21.51	21.48		
3	16QAM	8	7	21.42	21.45	21.36	21.5	3
3	16QAM	15	0	21.26	21.38	21.27		
3	64QAM	1	0	21.7	21.79	21.75		
3	64QAM	1	8	21.83	21.93	21.76	22.5	2
3	64QAM	1	14	21.68	21.64	21.58		
3	64QAM	8	0	20.34	20.48	20.44		
3	64QAM	8	4	20.37	20.57	20.48	21.5	3
3	64QAM	8	7	20.42	20.38	20.27		
3	64QAM	15	0	20.17	20.4	20.18		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	843.3		
1.4	QPSK	1	0	23.14	23.34	23.23	24.5	0
1.4	QPSK	1	3	23.49	23.65	23.59		
1.4	QPSK	1	6	23.28	23.29	23.31		
1.4	QPSK	3	0	23.21	23.25	23.23	23.5	1
1.4	QPSK	3	1	23.24	23.27	23.34		
1.4	QPSK	3	3	23.23	23.37	23.24		
1.4	QPSK	6	0	22.48	22.57	22.55	23.5	1
1.4	16QAM	1	0	22.97	22.96	22.90		
1.4	16QAM	1	3	22.99	22.88	22.90		
1.4	16QAM	1	6	22.71	22.81	22.81	22.5	2
1.4	16QAM	3	0	22.62	22.65	22.49		
1.4	16QAM	3	1	22.61	22.69	22.51		
1.4	16QAM	3	3	22.57	22.60	22.57	21.5	3
1.4	16QAM	6	0	21.33	21.42	21.31		
1.4	64QAM	1	0	21.78	21.87	21.74		
1.4	64QAM	1	3	21.89	21.85	21.77	22.5	2
1.4	64QAM	1	6	21.69	21.71	21.72		
1.4	64QAM	3	0	21.44	21.46	21.46		
1.4	64QAM	3	1	21.44	21.47	21.31	21.5	3
1.4	64QAM	3	3	21.45	21.48	21.28		
1.4	64QAM	6	0	20.20	20.39	20.16		

Band 26_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.84	22.89	22.89	24	0
15	QPSK	1	37	23.15	23.11	23.11		
15	QPSK	1	74	22.91	22.81	22.89		
15	QPSK	36	0	21.83	21.92	21.83	23	1
15	QPSK	36	20	22.05	22.05	22.05		
15	QPSK	36	39	21.95	22.01	21.88		
15	QPSK	75	0	21.97	22.02	21.94	23	1
15	16QAM	1	0	22.25	22.22	22.21		
15	16QAM	1	37	22.38	22.48	22.39		
15	16QAM	1	74	22.21	22.27	22.20	22	2
15	16QAM	36	0	20.97	20.99	20.91		
15	16QAM	36	20	21.06	21.08	21.08		
15	16QAM	36	39	20.91	20.97	20.89	22	2
15	16QAM	75	0	20.97	21.03	20.89		
15	64QAM	1	0	21.10	21.05	21.06		
15	64QAM	1	37	21.40	21.46	21.39	22	2
15	64QAM	1	74	21.08	21.05	21.04		
15	64QAM	36	0	19.96	20.06	20.06		
15	64QAM	36	20	19.99	20.09	20.05	21	3
15	64QAM	36	39	19.86	19.97	19.84		
15	64QAM	75	0	19.86	19.84	19.79		
Channel				26719	26850	26940	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.81	22.79	22.76	24	0
10	QPSK	1	25	22.48	22.48	22.44		
10	QPSK	1	49	22.92	22.76	22.85		
10	QPSK	25	0	21.77	21.85	21.75	23	1
10	QPSK	25	12	21.96	22.01	21.78		
10	QPSK	25	25	21.95	21.97	21.78		
10	QPSK	50	0	21.85	21.93	21.88	23	1
10	16QAM	1	0	22.21	22.21	22.18		
10	16QAM	1	25	22.36	22.45	22.38		
10	16QAM	1	49	22.20	22.21	22.14	22	2
10	16QAM	25	0	20.88	20.88	20.81		
10	16QAM	25	12	20.97	20.99	20.97		
10	16QAM	25	25	20.79	20.83	20.85	21	3
10	16QAM	50	0	20.85				



Band 66_Ant 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										
Frequency (MHz)										
20	QPSK	1	0	20.61	20.65	20.46	21.5	0		
20	QPSK	1	49	20.78	20.78	20.78				
20	QPSK	1	99	20.37	20.45	20.35				
20	QPSK	50	0	20.65	20.73	20.63	21.5	0		
20	QPSK	50	24	20.75	20.75	20.75				
20	QPSK	50	50	20.61	20.74	20.81				
20	16QAM	100	0	20.59	20.68	20.58	21.5	0		
20	16QAM	100	0	20.69	20.60	20.60				
20	16QAM	100	0	20.67	20.69	20.62				
20	16QAM	50	24	20.64	20.74	20.83	21.5	0		
20	16QAM	50	50	20.63	20.76	20.80				
20	16QAM	50	0	20.66	20.64	20.57				
20	64QAM	1	0	20.60	20.68	20.58	21.5	0		
20	64QAM	1	49	20.58	20.74	20.54				
20	64QAM	1	99	20.58	20.69	20.63				
20	64QAM	50	0	20.58	20.70	20.64	21.5	0		
20	64QAM	50	24	20.63	20.65	20.62				
20	64QAM	50	50	20.62	20.65	20.60				
20	64QAM	100	0	20.62	20.66	20.64	21.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.59	20.58	20.44	21.5	0		
15	QPSK	1	37	20.61	20.72	20.56				
15	QPSK	1	74	20.26	20.43	20.34				
15	QPSK	36	0	20.58	20.64	20.61	21.5	0		
15	QPSK	36	20	20.58	20.67	20.66				
15	QPSK	36	39	20.59	20.69	20.49				
15	QPSK	75	0	20.56	20.63	20.49	21.5	0		
15	QPSK	75	0	20.64	20.49	20.58				
15	QPSK	75	0	20.57	20.63	20.52				
15	16QAM	1	37	20.57	20.63	20.52	21.5	0		
15	16QAM	1	74	20.58	20.63	20.53				
15	16QAM	1	49	20.55	20.65	20.55				
15	16QAM	36	20	20.54	20.64	20.54	21.5	0		
15	16QAM	36	39	20.55	20.44	20.46				
15	16QAM	36	20	20.57	20.51	20.51				
15	16QAM	75	0	20.52	20.60	20.50	21.5	0		
15	16QAM	75	0	20.51	20.72	20.42				
15	16QAM	75	0	20.54	20.58	20.53				
15	64QAM	1	37	20.47	20.66	20.50	21.5	0		
15	64QAM	1	74	20.47	20.58	20.53				
15	64QAM	1	49	20.51	20.61	20.51				
15	64QAM	36	20	20.51	20.54	20.48	21.5	0		
15	64QAM	36	39	20.52	20.58	20.61				
15	64QAM	36	20	20.52	20.58	20.61				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.53	20.58	20.41	21.5	0		
10	QPSK	1	25	20.64	20.72	20.63				
10	QPSK	1	49	20.33	20.35	20.33				
10	QPSK	25	0	20.59	20.67	20.58	21.5	0		
10	QPSK	25	12	20.58	20.68	20.55				
10	QPSK	25	25	20.52	20.69	20.53				
10	QPSK	50	0	20.48	20.65	20.49	21.5	0		
10	QPSK	50	0	20.63	20.49	20.53				
10	QPSK	50	0	20.60	20.62	20.53				
10	16QAM	1	49	20.57	20.71	20.57	21.5	0		
10	16QAM	1	0	20.58	20.68	20.53				
10	16QAM	1	49	20.58	20.69	20.53				
10	16QAM	25	12	20.59	20.69	20.57	21.5	0		
10	16QAM	25	25	20.53	20.54	20.39				
10	16QAM	25	0	20.56	20.52	20.51				
10	64QAM	1	0	20.51	20.65	20.51	21.5	0		
10	64QAM	1	25	20.50	20.62	20.49				
10	64QAM	1	49	20.53	20.55	20.55				
10	64QAM	25	0	20.47	20.60	20.55	21.5	0		
10	64QAM	25	12	20.55	20.53	20.60				
10	64QAM	25	25	20.55	20.44	20.48				
10	64QAM	50	0	20.59	20.55	20.57	21.5	0		
10	64QAM	50	0	20.53	20.64	20.52				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.50	20.68	20.43	21.5	0		
5	QPSK	1	12	20.59	20.69	20.64				
5	QPSK	1	24	20.30	20.41	20.32				
5	QPSK	12	0	20.53	20.68	20.59	21.5	0		
5	QPSK	12	7	20.57	20.68	20.59				
5	QPSK	12	13	20.51	20.64	20.59				
5	QPSK	25	0	20.50	20.57	20.56	21.5	0		
5	QPSK	25	0	20.55	20.57	20.54				
5	QPSK	25	0	20.50	20.58	20.51				
5	16QAM	1	0	20.56	20.57	20.57	21.5	0		
5	16QAM	1	8	20.36	20.65	20.51				
5	16QAM	1	14	20.56	20.69	20.62				
5	16QAM	8	0	20.63	20.64	20.57	21.5	0		
5	16QAM	8	4	20.52	20.69	20.59				
5	16QAM	8	7	20.60	20.47	20.44				
5	16QAM	15	0	20.56	20.58	20.45	21.5	0		
5	16QAM	15	0	20.48	20.64	20.49				
5	16QAM	15	0	20.54	20.64	20.56				
5	64QAM	1	8	20.54	20.64	20.56	21.5	0		
5	64QAM	1	14	20.48	20.65	20.56				
5	64QAM	1	0	20.56	20.62	20.60				
5	64QAM	8	4	20.51	20.53	20.54	21.5	0		
5	64QAM	8	7	20.52	20.57	20.57				
5	64QAM	8	0	20.58	20.58	20.52				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.52	20.60	20.38	21.5	0		
1.4	QPSK	1	3	20.63	20.68	20.61				
1.4	QPSK	1	5	20.31	20.39	20.28				
1.4	QPSK	3	0	20.57	20.60	20.55	21.5	0		
1.4	QPSK	3	1	20.54	20.70	20.62				
1.4	QPSK	3	3	20.59	20.64	20.58				
1.4	QPSK	3	0	20.51	20.57	20.49	21.5	0		
1.4	16QAM	1	0	20.54	20.53	20.51				
1.4	16QAM	1	3	20.56	20.58	20.57				
1.4	16QAM	3	0	20.64	20.72	20.65	21.5	0		
1.4	16QAM	3	0	20.56	20.66	20.61				
1.4	16QAM	3	1	20.52	20.69	20.54				
1.4	16QAM	3	1	20.60	20.54	20.44	21.5	0		
1.4	16QAM	3	0	20.58	20.58	20.51				
1.4	16QAM	3	0	20.49	20.69	20.48				
1.4	64QAM	1	3	20.49	20.69	20.63	21.5	0		
1.4	64QAM	1	5	20.54	20.66	20.58				
1.4	64QAM	1	0	20.46	20.58	20.61				
1.4	64QAM	3	1	20.56	20.62	20.59	21.5	0		
1.4	64QAM	3	3	20.50	20.53	20.55				
1.4	64QAM	3	0	20.57	20.62	20.55				

Band 66_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.01	21.10	21.07	22	0		
20	QPSK	1	49	21.10	21.10	21.10				
20	QPSK	1	99	20.98	20.83	20.91				
20	QPSK	50	0	21.02	21.18	21.24	22	0		
20	QPSK	50	24	21.12	21.31	21.25				
20	QPSK	50	50	21.20	21.15	21.15				
20	16QAM	100	0	21.21	21.22	21.22	22	0		
20	16QAM	100	0	21.20	21.20	21.18				
20	16QAM	100	0	21.23	21.22	21.23				
20	16QAM	50	24	21.19	21.27	21.14	22	0		
20	16QAM	50	50	21.10	21.19	21.09				
20	16QAM	50	0	21.29	21.11	21.22				
20	64QAM	1	0	21.02	21.14	21.14	22	0		
20	64QAM	1	49	21.21	21.20	21.16				
20	64QAM	1	99	21.18	21.18	20.91				
20	64QAM	50	0	20.19	20.16	20.24	21	1		
20	64QAM	50	24	20.22	20.41	20.21				
20	64QAM	50	50	20.25	20.17	20.12				
20	64QAM	100	0	20.12	20.23	20.26	21	1		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.89	21.07	21.02	22	0		
15	QPSK	1	37	21.13	21.22	21.18				
15	QPSK	1	74	20.98	20.72	20.89				
15	QPSK	36	0	20.96	21.11	21.18	22	0		
15	QPSK	36	20	21.10	21.21	21.21				
15	QPSK	36	39	21.08	21.06	21.08				
15	QPSK	75	0	21.19	21.13	21.20	22	0		
15	QPSK	75	0	21.18	21.11	21.18				
15	QPSK	75	0	21.13	21.19	21.19				
15	16QAM	1	37	21.21	21.05	21.14	22	0		
15	16QAM	1	74	21.21	21.13	21.16				
15	16QAM	1	49	21.12	21.13	21.16				
15	16QAM	36	20	21.10	21.19	21.09	22	0		
15	16QAM	36	39	21.07	21.16	20.98				
15	16QAM	36	20	21.27	21.08	21.11				
15	64QAM	1	0	20.94	21.10</					



Band 38_Ant 13

Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel 37850-38150											
20	QPSK	1	0	0	19.51	19.57	19.65	20.5	0		
20	QPSK	1	49	0	19.75	19.82	19.79				
20	QPSK	1	99	0	19.80	19.88	19.87				
20	QPSK	50	0	0	19.73	19.61	19.77				
20	QPSK	50	24	0	19.50	19.81	19.78	20.5	0		
20	QPSK	50	50	0	19.74	19.80	19.77				
20	QPSK	100	0	0	19.68	19.50	19.68				
20	16QAM	1	0	0	19.74	19.72	19.80				
20	16QAM	1	49	0	19.80	19.77	19.78	20.5	0		
20	16QAM	1	99	0	19.76	19.73	19.75				
20	16QAM	50	0	0	19.57	19.70	19.77				
20	16QAM	50	24	0	19.73	19.74	19.74				
20	16QAM	50	50	0	19.76	19.72	19.75	20.5	0		
20	16QAM	100	0	0	19.69	19.72	19.74				
20	64QAM	1	49	0	19.79	19.78	19.80				
20	64QAM	1	99	0	19.78	19.80	19.78				
20	64QAM	50	0	0	19.58	19.75	19.78	20.5	0		
20	64QAM	50	24	0	19.73	19.74	19.73				
20	64QAM	50	50	0	19.74	19.75	19.73				
20	64QAM	100	0	0	19.59	19.77	19.73				
Channel 37825-38175											
15	QPSK	1	0	0	19.40	19.49	19.54	20.5	0		
15	QPSK	1	37	0	19.63	19.79	19.72				
15	QPSK	1	74	0	19.56	19.46	19.58				
15	QPSK	36	0	0	19.61	19.54	19.65				
15	QPSK	36	20	0	19.78	19.70	19.72	20.5	0		
15	QPSK	36	39	0	19.65	19.76	19.65				
15	QPSK	75	0	0	19.56	19.69	19.65				
15	16QAM	1	0	0	19.67	19.69	19.77				
15	16QAM	1	37	0	19.69	19.66	19.72	20.5	0		
15	16QAM	1	74	0	19.72	19.72	19.66				
15	16QAM	36	0	0	19.49	19.63	19.73				
15	16QAM	36	20	0	19.73	19.65	19.62				
15	16QAM	36	39	0	19.73	19.62	19.66	20.5	0		
15	16QAM	75	0	0	19.64	19.63	19.68				
15	64QAM	1	37	0	19.77	19.73	19.73				
15	64QAM	1	74	0	19.69	19.79	19.76				
15	64QAM	36	0	0	19.63	19.69	19.69	20.5	0		
15	64QAM	36	20	0	19.76	19.63	19.69				
15	64QAM	36	39	0	19.63	19.71	19.76				
15	64QAM	75	0	0	19.52	19.65	19.70				
Channel 37800-38200											
10	QPSK	1	0	0	19.42	19.52	19.52	20.5	0		
10	QPSK	1	25	0	19.65	19.74	19.68				
10	QPSK	1	49	0	19.47	19.52	19.64				
10	QPSK	25	0	0	19.68	19.54	19.74				
10	QPSK	25	12	0	19.77	19.79	19.75	20.5	0		
10	QPSK	25	25	0	19.68	19.71	19.72				
10	QPSK	50	0	0	19.66	19.78	19.66				
10	16QAM	1	0	0	19.65	19.67	19.68				
10	16QAM	1	25	0	19.70	19.68	19.75	20.5	0		
10	16QAM	1	49	0	19.67	19.66	19.64				
10	16QAM	25	0	0	19.49	19.59	19.73				
10	16QAM	25	12	0	19.71	19.66	19.72				
10	16QAM	25	25	0	19.73	19.63	19.68	20.5	0		
10	16QAM	50	0	0	19.58	19.70	19.64				
10	64QAM	1	0	0	19.44	19.57	19.69				
10	64QAM	1	25	0	19.77	19.71	19.76				
10	64QAM	1	49	0	19.74	19.68	19.76	20.5	0		
10	64QAM	1	25	0	19.59	19.68	19.75				
10	64QAM	25	0	0	19.71	19.69	19.68				
10	64QAM	25	25	0	19.63	19.72	19.72				
10	64QAM	50	0	0	19.50	19.66	19.67	20.5	0		
Channel 37775-38225											
5	QPSK	1	0	0	19.48	19.49	19.55			20.5	0
5	QPSK	1	12	0	19.69	19.76	19.72				
5	QPSK	1	24	0	19.50	19.51	19.58				
5	QPSK	12	0	0	19.66	19.58	19.72				
5	QPSK	12	7	0	19.63	19.74	19.74	20.5	0		
5	QPSK	12	13	0	19.63	19.71	19.66				
5	QPSK	25	0	0	19.66	19.75	19.67				
5	16QAM	1	0	0	19.70	19.68	19.71				
5	16QAM	1	12	0	19.74	19.70	19.88	20.5	0		
5	16QAM	1	24	0	19.67	19.62	19.65				
5	16QAM	12	0	0	19.51	19.65	19.73				
5	16QAM	12	7	0	19.68	19.65	19.72				
5	16QAM	12	13	0	19.72	19.67	19.65	20.5	0		
5	16QAM	25	0	0	19.63	19.65	19.71				
5	64QAM	1	0	0	19.43	19.58	19.72				
5	64QAM	1	12	0	19.74	19.70	19.72				
5	64QAM	1	24	0	19.67	19.68	19.71	20.5	0		
5	64QAM	12	0	0	19.55	19.65	19.70				
5	64QAM	12	7	0	19.69	19.69	19.72				
5	64QAM	12	13	0	19.71	19.63	19.74				
5	64QAM	25	0	0	19.54	19.74	19.62	20.5	0		

Band 38_Ant 31

Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel 37850-38150											
20	QPSK	1	0	0	23.71	23.72	23.70	24.5	0		
20	QPSK	1	49	0	23.98	24.03	23.99				
20	QPSK	1	99	0	23.97	24.07	23.92				
20	QPSK	50	0	0	22.99	23.00	22.90				
20	QPSK	50	24	0	23.06	23.10	23.05	23.5	1		
20	QPSK	50	50	0	23.05	23.01	23.04				
20	QPSK	100	0	0	23.08	23.09	23.04				
20	16QAM	1	0	0	23.12	23.05	22.99				
20	16QAM	1	49	0	23.37	23.36	23.24	23.5	1		
20	16QAM	1	99	0	23.13	23.15	23.11				
20	16QAM	50	0	0	22.05	22.02	21.97				
20	16QAM	50	24	0	22.30	22.14	22.14				
20	16QAM	50	50	0	22.14	22.19	22.11	22.5	2		
20	16QAM	100	0	0	22.08	22.08	22.11				
20	64QAM	1	49	0	22.30	22.19	22.21				
20	64QAM	1	99	0	22.08	22.05	22.04				
20	64QAM	50	0	0	21.08	20.98	21.05	22.5	2		
20	64QAM	50	24	0	21.28	21.12	21.16				
20	64QAM	50	50	0	21.14	21.22	21.18				
20	64QAM	100	0	0	21.11	21.08	21.18				
Channel 37825-38175											
15	QPSK	1	0	0	23.73	23.63	23.75	24.5	0		
15	QPSK	1	37	0	23.88	23.99	23.85				
15	QPSK	1	74	0	23.81	23.78	23.77				
15	QPSK	36	0	0	22.99	22.99	22.91				
15	QPSK	36	20	0	22.96	23.00	22.94	23.5	1		
15	QPSK	36	39	0	22.92	22.88	22.90				
15	QPSK	75	0	0	22.93	23.03	22.90				
15	16QAM	1	0	0	23.01	22.99	22.85				
15	16QAM	1	37	0	23.35	23.34	23.18	23.5	1		
15	16QAM	1	74	0	23.02	23.13	23.06				
15	16QAM	36	0	0	21.98	22.01	21.93				
15	16QAM	36	20	0	22.13	22.09	22.04				
15	16QAM	36	39	0	22.07	22.09	22.10	22.5	2		
15	16QAM	75	0	0	21.99	22.03	21.99				
15	64QAM	1	37	0	21.98	22.08	22.06				
15	64QAM	1	74	0	22.24	22.18	22.18				
15	64QAM	1	74	0	22.02	22.01	22.04	21.5	3		
15	64QAM	36	0	0	21.01	20.80	20.94				
15	64QAM	36	20	0	21.21	21.00	21.11				
15	64QAM	36	39	0	21.10	21.21	21.14				
15	64QAM	75	0	0	20.98	21.05	21.13				
Channel 37800-38200											
10	QPSK	1	0	0	23.67	23.51	23.70	24.5	0		
10	QPSK	1	25	0	23.83	23.92	23.84				
10	QPSK	1	49	0	23.76	23.84	23.81				
10	QPSK	25	0	0	22.90	22.86	22.84				
10	QPSK	25	12	0	23.00	23.00	22.95	23.5	1		
10	QPSK	25	25	0	23.00	22.88	22.96				
10	QPSK	50	0	0	23.08	23.08	23.02				
10	16QAM	1	0	0	23.09	22.96	22.87				
10	16QAM	1	25	0	23.25	23.34	23.15	23.5	1		
10	16QAM	1	49	0	23.05	23.04	23.08				
10	16QAM	25	0	0	22.03	21.88	21.93				
10	16QAM	25	12	0	22.15	22.03	22.14				
10	16QAM	25	25	0	22.14	22.15	21.97	22.5	2		
10	16QAM	50	0	0	22.04	22.02	22.07				
10	64QAM	1	0	0	21.90	21.92	21.92				
10	64QAM	1	25	0	22.30	22.08	22.11				
10	64QAM	1	49	0	21.97	21.91	21.93	22.5	2		
10	64QAM	1	25	0	20.96	20.85	21.05				
10	64QAM	25	0	0	21.07	21.07	21.13				
10	64QAM	25	25	0	21.03	21.08	21.13				
10	64QAM	50	0	0	20.93	20.90	21.04	21.5	3		
Channel 37775-38225											
5	QPSK	1	0	0	23.61	23.58	23.56			24.5	0
5	QPSK	1	12	0	23.91	23.96	23.85				
5	QPSK	1	24	0	23.72	23.72	23.80				
5	QPSK	12	0	0	22.91	22.86	22.84				
5	QPSK	12	7	0	23.08	23.04	23.05	23.5	1		
5	QPSK	12	13	0	23.03	22.95	22.89				
5	QPSK	25	0	0	23.06	23.02	22.94				
5	16QAM	1	0	0	23.08	23.02	22.97				
5	16QAM	1	12	0	23.25	23.22	23.11	23.5	1		
5	16QAM	1	24	0	22.99	23.08	22.97				
5	16QAM	12	0	0	22.01	21.90	21.82				
5	16QAM	12	7	0	22.14	22.06	22.09				
5	16Q										



Band 41_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	18.49	18.81	19.04	18.52	18.44	19.5	0
20	QPSK	1	49	18.76	18.70	18.91	18.84	18.77		
20	QPSK	50	0	18.47	18.56	18.69	18.54	18.62		
20	QPSK	50	24	18.76	18.65	18.86	18.65	18.55		
20	QPSK	50	50	18.60	18.62	18.63	18.68	18.70		
20	QPSK	100	0	18.68	18.84	18.85	18.74	18.68		
20	16QAM	1	0	18.75	18.84	18.96	18.70	18.74		
20	16QAM	1	49	18.65	18.58	18.92	18.79	18.89		
20	16QAM	1	99	18.72	18.71	18.80	18.77	18.84		
20	16QAM	50	0	18.63	18.80	18.86	18.77	18.69		
20	16QAM	50	24	18.67	18.62	18.95	18.78	18.62		
20	16QAM	50	50	18.68	18.69	18.76	18.72	18.61		
20	16QAM	100	0	18.74	18.84	18.92	18.77	18.61		
20	16QAM	1	0	18.65	18.67	18.76	18.81	18.64		
20	16QAM	1	49	18.63	18.70	18.78	18.80	18.67		
20	16QAM	1	99	18.69	18.82	18.79	18.79	18.66		
20	16QAM	50	0	18.51	18.67	18.61	18.66	18.66		
20	16QAM	50	24	18.67	18.55	18.75	18.75	18.65		
20	16QAM	50	50	18.73	18.65	18.75	18.72	18.64		
20	16QAM	100	0	18.65	18.76	18.78	18.69	18.70		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41516		
15	QPSK	1	0	18.41	18.53	18.53	18.47	18.42	19.50	0
15	QPSK	1	37	18.69	18.66	18.86	18.72	18.70		
15	QPSK	1	74	18.39	18.44	18.56	18.57	18.60		
15	QPSK	36	0	18.51	18.47	18.56	18.72	18.69		
15	QPSK	36	20	18.74	18.59	18.78	18.82	18.76		
15	QPSK	36	39	18.56	18.58	18.56	18.62	18.64		
15	QPSK	75	0	18.62	18.55	18.83	18.64	18.66		
15	16QAM	1	0	18.63	18.52	18.67	18.67	18.63		
15	16QAM	1	37	18.63	18.48	18.79	18.78	18.56		
15	16QAM	1	74	18.68	18.67	18.78	18.66	18.66		
15	16QAM	36	0	18.60	18.56	18.74	18.69	18.56		
15	16QAM	36	20	18.52	18.55	18.72	18.61	18.61		
15	16QAM	36	39	18.63	18.58	18.70	18.62	18.58		
15	16QAM	75	0	18.66	18.57	18.80	18.73	18.49		
15	16QAM	1	0	18.61	18.61	18.76	18.69	18.64		
15	16QAM	1	37	18.56	18.68	18.69	18.69	18.56		
15	16QAM	1	74	18.59	18.55	18.69	18.70	18.58		
15	16QAM	36	0	18.58	18.58	18.68	18.68	18.57		
15	16QAM	36	20	18.58	18.46	18.70	18.63	18.58		
15	16QAM	36	39	18.63	18.58	18.63	18.67	18.56		
15	16QAM	75	0	18.55	18.62	18.75	18.53	18.68		
Channel										
Frequency (MHz)				39700	40160	40620	41060	41540		
10	QPSK	1	0	18.37	18.52	18.52	18.49	18.39	19.50	0
10	QPSK	1	25	18.73	18.66	18.80	18.75	18.72		
10	QPSK	1	49	18.40	18.50	18.60	18.55	18.58		
10	QPSK	25	0	18.47	18.44	18.56	18.72	18.71		
10	QPSK	25	12	18.69	18.61	18.81	18.81	18.79		
10	QPSK	25	25	18.52	18.50	18.53	18.65	18.68		
10	QPSK	50	0	18.64	18.52	18.76	18.65	18.58		
10	16QAM	1	0	18.69	18.56	18.72	18.60	18.72		
10	16QAM	1	25	18.56	18.51	18.72	18.75	18.63		
10	16QAM	1	49	18.54	18.54	18.79	18.72	18.49		
10	16QAM	25	0	18.64	18.60	18.71	18.69	18.56		
10	16QAM	25	12	18.60	18.58	18.65	18.61	18.55		
10	16QAM	50	0	18.71	18.52	18.80	18.67	18.55		
10	16QAM	1	0	18.50	18.63	18.70	18.72	18.59		
10	16QAM	1	25	18.60	18.68	18.71	18.74	18.55		
10	16QAM	1	49	18.67	18.60	18.74	18.77	18.60		
10	16QAM	25	0	18.44	18.65	18.55	18.39	18.57		
10	16QAM	25	12	18.56	18.43	18.72	18.72	18.54		
10	16QAM	25	25	18.66	18.53	18.63	18.65	18.53		
10	16QAM	50	0	18.59	18.55	18.71	18.53	18.60		
Channel										
Frequency (MHz)				29975	29452	29930	29403	28975		
5	QPSK	1	0	18.42	18.55	18.53	18.50	18.40	19.50	0
5	QPSK	1	12	18.67	18.62	18.84	18.77	18.76		
5	QPSK	1	24	18.46	18.52	18.56	18.53	18.60		
5	QPSK	12	0	18.46	18.49	18.54	18.72	18.73		
5	QPSK	12	7	18.66	18.53	18.80	18.77	18.72		
5	QPSK	12	13	18.50	18.59	18.61	18.61	18.58		
5	QPSK	25	0	18.56	18.62	18.75	18.63	18.56		
5	16QAM	1	0	18.66	18.61	18.72	18.62	18.50		
5	16QAM	1	12	18.54	18.50	18.75	18.73	18.57		
5	16QAM	1	24	18.68	18.66	18.74	18.65	18.58		
5	16QAM	12	0	18.60	18.54	18.83	18.69	18.54		
5	16QAM	12	7	18.56	18.54	18.70	18.71	18.60		
5	16QAM	12	13	18.66	18.67	18.70	18.67	18.56		
5	16QAM	25	0	18.63	18.62	18.70	18.66	18.54		
5	16QAM	1	0	18.58	18.59	18.70	18.72	18.57		
5	16QAM	1	12	18.68	18.61	18.67	18.77	18.56		
5	16QAM	1	24	18.59	18.57	18.77	18.76	18.58		
5	16QAM	12	0	18.46	18.61	18.57	18.41	18.59		
5	16QAM	12	7	18.64	18.47	18.71	18.72	18.62		
5	16QAM	12	13	18.67	18.60	18.66	18.65	18.56		
5	16QAM	25	0	18.55	18.57	18.69	18.49	18.68		

Band 41_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	23.81	23.82	23.84	23.80	23.81	24.5	0
20	QPSK	1	49	23.85	24.01	24.05	23.81	23.87		
20	QPSK	50	0	23.86	23.81	23.85	23.82	23.82		
20	QPSK	50	24	23.85	23.96	23.10	23.07	23.04		
20	QPSK	50	50	23.98	23.05	23.05	23.08	23.08		
20	QPSK	100	0	22.90	22.98	22.99	22.97	22.88		
20	16QAM	1	0	22.95	23.06	23.08	22.93	23.00		
20	16QAM	1	49	23.21	23.96	23.23	23.25	23.21		
20	16QAM	1	99	23.03	23.17	23.08	23.06	22.98		
20	16QAM	50	0	21.89	21.98	22.03	21.94	22.05		
20	16QAM	50	24	22.04	22.12	22.10	22.12	22.07		
20	16QAM	50	50	22.15	22.09	22.04	22.07	21.90		
20	16QAM	100	0	21.96	22.07	22.07	22.02	21.90		
20	16QAM	1	0	21.98	21.98	21.95	21.94	21.94		
20	16QAM	1	49	22.11	22.23	22.17	22.13	22.15		
20	16QAM	1	99	21.96	22.06	22.02	21.98	21.92		
20	16QAM	50	0	20.87	20.97	21.02	20.92	21.02		
20	16QAM	50	24	21.02	21.16	21.12	21.18	21.04		
20	16QAM	50	50	21.04	21.12	21.09	21.10	20.95		
20	16QAM	100	0	21.02	21.07	21.07	21.01	21.02		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41516		
15	QPSK	1	0	23.82	23.84	23.84	23.79	23.82	24.50	0
15	QPSK	1	37	23.94	24.02	24.01	23.97	24.02		
15	QPSK	1	74	23.72	23.74	23.73	23.83	23.72		
15	QPSK	36	0	22.86	22.92	22.85	22.87	22.88		
15	QPSK	36	20	23.02	23.07	23.09	23.04	23.02		
15	QPSK	36	39	22.98	22.96	22.90	23.02	23.04		
15	QPSK	75	0	22.86	22.92	22.84	22.86	22.85		
15	16QAM	1	0	23.03	23.05	23.00	22.95	22.94		
15	16QAM	1	37	23.12	23.13	23.16	23.10	23.15		
15	16QAM	1	74	23.26	22.99	23.02	22.94	22.91		
15	16QAM	36	0	21.85	22.00	22.00	22.00	21.92		
15	16QAM	36	20	21.87	21.96	21.99	21.89	21.99		
15	16QAM	36	39	21.93	21.93	21.89	21.90	21.90		
15	16QAM	75	0	22.03	22.03	22.01	22.05	21.94		
15	16QAM	1	0	21.88	21.98	21.94	21.89	21.94		
15	16QAM	1	37	22.15	22.03	22.13	22.1			



Reduced Power Mode for DSI5

<GSM>

TX Channel	Burst Average Power (dBm)				Frame-Average Power (dBm)			
	150	180	251	Limit	150	180	251	Limit
Frequency (MHz)	824.2	836.4	848.8	848.8	824.2	836.4	848.8	848.8
GSM 1 Tx slot	32.71	32.75	32.70	34.00	23.71	23.75	23.70	25.00
GPRS/EDGE(GMSK) 1 Tx slot	32.70	32.73	32.68	34.00	23.70	23.73	23.68	25.00
GPRS/EDGE(GMSK) 2 Tx slots	30.60	30.64	30.52	32.00	24.60	24.64	24.52	25.00
GPRS/EDGE(GMSK) 3 Tx slots	28.55	28.60	28.48	30.00	24.29	24.34	24.22	25.74
GPRS/EDGE(GMSK) 4 Tx slots	26.30	26.35	26.31	28.00	23.30	23.35	23.31	25.00
EDGE 1 Tx slot	28.85	28.88	28.85	28.00	17.85	17.88	17.85	18.00
EDGE 2 Tx slots	25.01	25.02	24.87	26.00	19.01	19.02	18.87	20.00
EDGE 3 Tx slots	22.28	22.29	22.17	23.00	18.49	18.53	18.51	19.74
EDGE 4 Tx slots	20.45	20.35	20.37	22.00	17.45	17.35	17.37	19.00

TX Channel	Burst Average Power (dBm)				Frame-Average Power (dBm)			
	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1830	1903.8	1903.8	1850.2	1830	1903.8	1903.8
GSM 1 Tx slot	28.12	27.98	27.65	28.50	19.12	18.98	18.65	19.50
GPRS/EDGE(GMSK) 1 Tx slot	28.15	28.05	27.69	28.50	19.15	19.05	18.69	19.50
GPRS/EDGE(GMSK) 2 Tx slots	25.10	25.17	25.08	26.00	19.16	19.17	19.08	20.00
GPRS/EDGE(GMSK) 3 Tx slots	22.15	22.00	21.97	23.00	17.60	17.74	17.71	19.24
GPRS/EDGE(GMSK) 4 Tx slots	21.28	21.10	20.97	22.50	16.28	16.10	17.97	18.50
EDGE 1 Tx slot	26.18	26.20	26.10	27.00	17.18	17.20	17.10	18.00
EDGE 2 Tx slots	24.44	24.41	24.38	25.00	18.44	18.41	18.38	19.00
EDGE 3 Tx slots	22.77	22.61	22.47	23.50	18.51	18.35	18.21	19.24
EDGE 4 Tx slots	20.69	20.57	20.60	21.50	17.69	17.67	17.50	18.50

<GSM>

TX Channel	Burst Average Power (dBm)				Frame-Average Power (dBm)			
	150	180	251	Limit	150	180	251	Limit
Frequency (MHz)	824.2	836.4	848.8	848.8	824.2	836.4	848.8	848.8
GSM 1 Tx slot	32.30	32.43	32.42	33.50	23.30	23.43	23.42	24.50
GPRS/EDGE(GMSK) 1 Tx slot	32.28	32.42	32.41	33.50	23.28	23.42	23.41	24.50
GPRS/EDGE(GMSK) 2 Tx slots	30.19	30.35	30.34	31.50	24.19	24.35	24.34	25.50
GPRS/EDGE(GMSK) 3 Tx slots	28.01	28.18	28.17	29.50	23.75	23.92	23.91	25.24
GPRS/EDGE(GMSK) 4 Tx slots	25.78	25.93	25.92	27.50	22.78	22.93	22.92	24.50
EDGE 1 Tx slot	26.37	26.62	26.61	27.50	17.37	17.62	17.61	18.50
EDGE 2 Tx slots	24.56	24.61	24.65	25.50	18.56	18.61	18.65	19.50
EDGE 3 Tx slots	22.28	22.34	22.51	23.50	18.02	18.08	18.25	19.24
EDGE 4 Tx slots	19.91	20.03	20.18	21.50	16.91	17.03	17.18	18.50

TX Channel	Burst Average Power (dBm)				Frame-Average Power (dBm)			
	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1830	1903.8	1903.8	1850.2	1830	1903.8	1903.8
GSM 1 Tx slot	28.19	28.30	28.01	29.50	19.19	19.30	19.01	20.01
GPRS/EDGE(GMSK) 1 Tx slot	28.22	28.55	28.03	29.50	19.22	19.55	20.03	20.50
GPRS/EDGE(GMSK) 2 Tx slots	25.78	25.81	25.94	26.50	19.78	19.81	19.94	20.50
GPRS/EDGE(GMSK) 3 Tx slots	22.82	22.84	22.98	23.00	18.82	18.84	18.98	19.74
GPRS/EDGE(GMSK) 4 Tx slots	21.31	21.30	21.43	23.00	18.31	18.30	18.43	20.00
EDGE 1 Tx slot	25.88	26.07	26.24	27.00	18.88	19.07	19.24	18.00
EDGE 2 Tx slots	24.37	24.46	24.63	25.00	18.37	18.46	18.63	19.00
EDGE 3 Tx slots	22.55	22.64	22.69	23.50	18.29	18.38	18.43	19.24
EDGE 4 Tx slots	20.55	20.62	20.61	21.50	17.55	17.62	17.61	18.50

<WCDMA>

Band	TX Channel	WCDMA II_Ant.13				WCDMA IV_Ant.13				WCDMA V_Ant.13			
		9682	9600	9538	Limit	1312	1413	1513	Limit	4132	4182	4233	Limit
3GPP Rel 99	AMR 12.2kDps	18.03	18.06	18.09	19.00	18.84	18.84	18.91	20.00	23.23	23.30	23.28	24.50
3GPP Rel 99	AMR 12.2kDps	19.97	19.11	19.10	19.00	19.92	19.97	19.93	20.00	23.25	23.32	23.30	24.50
3GPP Rel 6	HSDPA Subtest-1	17.21	17.12	17.24	18.00	17.91	17.93	17.91	18.00	22.37	22.39	22.47	23.50
3GPP Rel 6	HSDPA Subtest-2	17.04	17.02	17.19	18.00	18.08	17.91	17.92	18.00	22.40	22.42	22.25	23.50
3GPP Rel 6	HSDPA Subtest-3	16.92	16.98	16.87	17.50	17.43	17.35	17.45	18.50	21.96	21.96	21.72	23.00
3GPP Rel 6	HSDPA Subtest-4	16.66	16.49	16.51	17.50	17.51	17.30	17.54	18.50	21.91	21.93	21.70	23.00
3GPP Rel 6	DC-HSDPA Subtest-1	17.13	17.00	17.17	18.00	17.86	17.98	17.83	18.00	22.30	22.35	22.41	23.50
3GPP Rel 6	DC-HSDPA Subtest-2	17.05	17.07	17.15	18.00	17.93	17.98	17.84	18.00	22.38	22.40	22.29	23.50
3GPP Rel 6	DC-HSDPA Subtest-3	16.58	16.52	16.60	17.50	17.44	17.26	17.39	18.50	21.88	21.94	21.69	23.00
3GPP Rel 6	DC-HSDPA Subtest-4	16.59	16.49	16.54	17.50	17.51	17.33	17.41	18.50	21.85	21.88	21.67	23.00
3GPP Rel 6	HSUPA Subtest-1	15.25	15.11	15.13	16.00	15.92	16.00	15.94	17.00	21.30	21.46	21.45	22.50
3GPP Rel 6	HSUPA Subtest-2	15.18	15.22	15.13	16.00	15.96	15.88	15.89	17.00	21.37	21.42	21.41	22.50
3GPP Rel 6	HSUPA Subtest-3	16.18	16.12	16.23	17.00	16.90	16.96	16.90	18.00	22.38	22.35	22.40	23.50
3GPP Rel 6	HSUPA Subtest-4	14.59	14.69	14.80	15.50	15.49	15.54	15.46	16.50	20.83	20.85	20.90	22.00
3GPP Rel 6	HSUPA Subtest-5	16.08	16.11	16.13	17.00	16.90	16.93	16.89	18.00	22.27	22.27	22.30	23.50
3GPP Rel 7	HSPA (16QAM) Subtest-1	16.15	15.22	15.14	16.00	15.98	15.97	16.05	17.00	21.35	21.44	21.40	22.50

Band	TX Channel	WCDMA II_Ant.31				WCDMA IV_Ant.31				WCDMA V_Ant.31			
		9682	9600	9538	Limit	1312	1413	1513	Limit	4132	4182	4233	Limit
3GPP Rel 99	AMR 12.2kDps	20.26	20.26	20.22	21.00	19.53	19.69	19.62	20.50	23.22	23.24	23.20	24.00
3GPP Rel 99	AMR 12.2kDps	20.27	20.30	20.27	21.00	19.58	19.65	19.63	20.50	23.25	23.26	23.23	24.00
3GPP Rel 6	HSDPA Subtest-1	18.30	18.25	18.47	20.00	18.49	18.69	18.60	19.50	22.23	22.25	22.30	23.00
3GPP Rel 6	HSDPA Subtest-2	18.17	18.08	18.13	20.00	18.42	18.57	18.59	19.50	22.15	22.13	22.11	23.00
3GPP Rel 6	HSDPA Subtest-3	18.80	18.70	18.84	19.50	17.85	18.02	18.16	19.00	21.68	21.78	21.69	22.50
3GPP Rel 6	HSDPA Subtest-4	18.69	18.60	18.73	19.50	17.97	18.05	18.17	19.00	21.66	21.62	21.67	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	18.25	18.18	18.36	20.00	18.48	18.61	18.56	19.50	22.19	22.23	22.27	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	18.11	18.06	18.16	20.00	18.29	18.47	18.58	19.50	22.11	22.08	22.07	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	18.71	18.68	18.74	19.50	17.90	18.02	18.08	19.00	21.61	21.73	21.67	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	18.60	18.62	18.75	19.50	17.93	18.01	18.11	19.00	21.62	21.57	21.63	22.50
3GPP Rel 6	HSUPA Subtest-1	17.41	17.26	17.50	18.20	16.63	16.71	16.63	17.50	21.17	20.98	21.10	22.50
3GPP Rel 6	HSUPA Subtest-2	17.25	17.24	17.47	18.20	16.57	16.69	16.63	17.50	21.00	21.07	21.00	22.50
3GPP Rel 6	HSUPA Subtest-3	18.30	18.30	18.52	19.00	17.55	17.70	17.68	18.50	21.94	22.00	21.92	23.00
3GPP Rel 6	HSUPA Subtest-4	18.69	18.75	17.01	17.50	16.02	16.08	16.07	17.00	20.43	20.49	20.45	21.50
3GPP Rel 6	HSUPA Subtest-5	18.26	18.18	18.32	19.00	17.55	17.62	17.65	18.50	21.90	21.90	21.90	23.00
3GPP Rel 7	HSPA (16QAM) Subtest-1	17.30	17.30	17.41	18.20	16.62	16.68	16.72	17.70	21.14	21.04	21.05	22.50



Band 2_Ant 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								
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	17.92	17.92	17.89	19.1	0
20	QPSK	1	49	17.92	18.12	17.92	19.1	0
20	QPSK	1	99	17.77	17.9	17.72	19.1	0
20	QPSK	50	0	17.82	17.9	17.81	19.1	0
20	QPSK	50	24	17.85	18.1	17.85	19.1	0
20	QPSK	50	50	17.7	17.83	17.74	19.1	0
20	QPSK	100	0	17.95	18.03	17.87	19.1	0
20	16QAM	1	0	17.81	17.81	17.87	19.1	0
20	16QAM	1	49	18.09	18.11	18.09	19.1	0
20	16QAM	1	99	17.88	18.01	17.95	19.1	0
20	16QAM	50	0	17.97	17.89	17.71	19.1	0
20	16QAM	50	24	17.81	17.9	17.89	19.1	0
20	16QAM	50	50	17.99	17.77	17.82	19.1	0
20	16QAM	100	0	17.75	17.88	17.8	19.1	0
20	64QAM	1	0	18.05	18.05	18.1	19.1	0
20	64QAM	1	49	18.06	18.02	18.08	19.1	0
20	64QAM	1	99	17.92	17.89	17.82	19.1	0
20	64QAM	50	0	17.99	17.95	17.89	19.1	0
20	64QAM	50	24	17.81	18.05	17.91	19.1	0
20	64QAM	50	50	17.92	17.79	17.8	19.1	0
20	64QAM	100	0	17.71	17.83	17.82	19.1	0
Channel								
Frequency (MHz)				1897.5	1890	1892.5		
15	QPSK	1	0	17.82	17.84	17.79	19.1	0
15	QPSK	1	37	17.87	17.86	17.86	19.1	0
15	QPSK	1	74	17.66	17.8	17.65	19.1	0
15	QPSK	36	0	17.80	17.87	17.74	19.1	0
15	QPSK	36	18	17.81	18.04	17.89	19.1	0
15	QPSK	36	36	17.60	17.75	17.65	19.1	0
15	QPSK	75	0	17.89	17.88	17.81	19.1	0
15	16QAM	1	0	17.72	17.77	17.73	19.1	0
15	16QAM	1	37	18.01	18.07	17.98	19.1	0
15	16QAM	1	74	17.81	17.88	17.78	19.1	0
15	16QAM	36	0	17.87	17.80	17.82	19.1	0
15	16QAM	36	20	17.74	17.85	17.80	19.1	0
15	16QAM	36	36	17.62	17.75	17.57	19.1	0
15	16QAM	75	0	17.83	17.82	17.82	19.1	0
15	64QAM	1	0	17.93	17.94	18.08	19.1	0
15	64QAM	1	37	18.04	17.93	17.99	19.1	0
15	64QAM	1	74	17.83	17.83	17.83	19.1	0
15	64QAM	36	0	17.88	17.92	17.80	19.1	0
15	64QAM	36	20	17.82	18.01	17.86	19.1	0
15	64QAM	36	36	17.78	17.77	17.73	19.1	0
15	64QAM	75	0	17.81	17.74	17.76	19.1	0
Channel								
Frequency (MHz)				1850	1860	1870		
10	QPSK	1	0	17.86	17.89	17.81	19.1	0
10	QPSK	1	25	17.95	18.10	17.94	19.1	0
10	QPSK	1	49	17.73	17.88	17.69	19.1	0
10	QPSK	25	0	17.77	17.88	17.69	19.1	0
10	QPSK	25	12	17.88	18.00	17.96	19.1	0
10	QPSK	25	25	17.68	17.74	17.70	19.1	0
10	QPSK	50	0	17.88	17.92	17.81	19.1	0
10	16QAM	1	0	17.77	17.78	17.80	19.1	0
10	16QAM	1	25	18.07	17.99	17.99	19.1	0
10	16QAM	1	49	17.76	17.85	17.79	19.1	0
10	16QAM	25	0	17.90	17.80	17.81	19.1	0
10	16QAM	25	12	17.72	17.85	17.82	19.1	0
10	16QAM	25	25	17.66	17.67	17.59	19.1	0
10	16QAM	50	0	17.65	17.76	17.76	19.1	0
10	64QAM	1	0	17.85	17.83	18.01	19.1	0
10	64QAM	1	25	17.96	17.89	17.86	19.1	0
10	64QAM	1	49	17.81	17.84	17.71	19.1	0
10	64QAM	25	0	17.87	17.85	17.78	19.1	0
10	64QAM	25	12	17.85	18.01	17.81	19.1	0
10	64QAM	25	25	17.76	17.68	17.68	19.1	0
10	64QAM	50	0	17.63	17.78	17.72	19.1	0
Channel								
Frequency (MHz)				1862.5	1860	1867.5		
5	QPSK	1	0	17.81	17.81	17.81	19.1	0
5	QPSK	1	12	17.93	18.05	17.98	19.1	0
5	QPSK	1	24	17.70	17.87	17.64	19.1	0
5	QPSK	12	0	17.73	17.80	17.71	19.1	0
5	QPSK	12	7	17.91	18.02	17.94	19.1	0
5	QPSK	12	13	17.65	17.73	17.68	19.1	0
5	QPSK	25	0	17.88	17.93	17.83	19.1	0
5	16QAM	1	0	17.70	17.78	17.84	19.1	0
5	16QAM	1	12	18.04	18.08	18.01	19.1	0
5	16QAM	1	24	17.86	17.92	17.86	19.1	0
5	16QAM	12	0	17.88	17.80	17.83	19.1	0
5	16QAM	12	7	17.71	17.80	17.84	19.1	0
5	16QAM	12	13	17.66	17.66	17.50	19.1	0
5	16QAM	25	0	17.73	17.78	17.88	19.1	0
5	64QAM	1	0	17.98	18.02	18.04	19.1	0
5	64QAM	1	12	18.02	17.99	17.88	19.1	0
5	64QAM	1	24	17.83	17.84	17.77	19.1	0
5	64QAM	12	0	17.98	17.82	17.86	19.1	0
5	64QAM	12	7	17.84	18.04	17.88	19.1	0
5	64QAM	12	13	17.80	17.77	17.72	19.1	0
5	64QAM	25	0	17.68	17.74	17.77	19.1	0
Channel								
Frequency (MHz)				1861.5	1860	1861.5		
3	QPSK	1	0	17.90	17.89	17.73	19.1	0
3	QPSK	1	8	17.93	18.08	17.92	19.1	0
3	QPSK	1	16	17.67	17.85	17.70	19.1	0
3	QPSK	8	0	17.72	17.85	17.78	19.1	0
3	QPSK	8	4	17.93	18.03	17.91	19.1	0
3	QPSK	8	7	17.68	17.81	17.88	19.1	0
3	16QAM	1	0	17.88	17.84	17.85	19.1	0
3	16QAM	1	8	17.79	17.75	17.85	19.1	0
3	16QAM	1	16	17.98	18.02	17.97	19.1	0
3	16QAM	8	0	17.85	17.87	17.83	19.1	0
3	16QAM	8	4	17.78	17.81	17.79	19.1	0
3	16QAM	8	7	17.67	17.74	17.51	19.1	0
3	16QAM	16	0	17.69	17.78	17.75	19.1	0
3	64QAM	1	0	17.98	18.01	17.98	19.1	0
3	64QAM	1	8	17.99	17.90	17.98	19.1	0
3	64QAM	1	14	17.81	17.84	17.75	19.1	0
3	64QAM	8	0	17.88	17.88	17.85	19.1	0
3	64QAM	8	4	17.82	17.98	17.82	19.1	0
3	64QAM	8	7	17.73	17.71	17.71	19.1	0
3	64QAM	16	0	17.60	17.65	17.75	19.1	0
Channel								
Frequency (MHz)				18607	18600	18613		
1.4	QPSK	1	0	18.07	18.0	18.03	19.1	0
1.4	QPSK	1	3	17.81	17.82	17.87	19.1	0
1.4	QPSK	1	5	17.98	18.00	17.98	19.1	0
1.4	QPSK	3	0	17.71	17.79	17.70	19.1	0
1.4	QPSK	3	1	17.88	18.00	17.95	19.1	0
1.4	QPSK	3	3	17.62	17.77	17.89	19.1	0
1.4	QPSK	6	0	17.65	17.88	17.79	19.1	0
1.4	16QAM	1	0	17.71	17.77	17.81	19.1	0
1.4	16QAM	1	3	18.06	18.05	18.03	19.1	0
1.4	16QAM	1	5	17.81	17.80	17.85	19.1	0
1.4	16QAM	3	0	17.87	17.77	17.81	19.1	0
1.4	16QAM	3	1	17.72	17.80	17.77	19.1	0
1.4	16QAM	3	3	17.61	17.69	17.58	19.1	0
1.4	16QAM	6	0	17.66	17.86	17.73	19.1	0
1.4	64QAM	1	0	17.99	18.00	17.98	19.1	0
1.4	64QAM	1	3	17.96	17.96	18.03	19.1	0
1.4	64QAM	1	5	17.82	17.89	17.79	19.1	0
1.4	64QAM	3	0	17.95	17.92	17.78	19.1	0
1.4	64QAM	3	1	17.85	18.02	17.81	19.1	0
1.4	64QAM	3	3	17.70	17.69	17.75	19.1	0
1.4	64QAM	6	0	17.68	17.81	17.77	19.1	0

Band 2_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	20.02	20.02	19.95	21	0
20	QPSK	1	49	20.02	20.41	20.02	21	0
20	QPSK	1	99	20.12	20.17	20.04	21	0



Band 4_Ant 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								
Frequency (MHz)								
20	QPSK	1	0	18.71	18.79	18.75	20	0
15	QPSK	1	49	18.71	18.63	18.77	20	0
20	QPSK	1	99	18.79	18.69	18.84	20	0
20	QPSK	50	0	18.87	18.86	18.87	20	0
20	QPSK	50	24	18.78	18.83	18.73	20	0
20	QPSK	50	50	19.05	18.88	18.91	20	0
20	QPSK	100	0	19.05	19.05	18.81	20	0
20	16QAM	1	0	19.05	19.04	19.07	20	0
20	16QAM	1	49	19.01	19.01	19.08	20	0
20	16QAM	1	99	19.06	19.06	19.07	20	0
20	16QAM	50	0	19.03	18.94	18.98	20	0
20	16QAM	50	24	18.97	19.01	18.92	20	0
20	16QAM	50	50	18.96	19.00	18.81	20	0
20	16QAM	100	0	18.77	18.91	18.95	20	0
20	64QAM	1	0	19.08	19.07	19.05	20	0
20	64QAM	1	49	19.08	19.01	19.08	20	0
20	64QAM	1	99	19.01	19.08	19.03	20	0
20	64QAM	50	0	19.04	18.90	18.99	20	0
20	64QAM	50	24	18.98	19.05	18.92	20	0
20	64QAM	50	50	18.98	19.01	18.92	20	0
20	64QAM	100	0	19.00	18.98	18.97	20	0
Channel								
Frequency (MHz)								
15	QPSK	1	0	18.59	18.72	18.71	20	0
15	QPSK	1	37	18.68	18.64	18.87	20	0
15	QPSK	1	74	18.75	18.65	18.72	20	0
15	QPSK	36	0	18.84	18.79	18.88	20	0
15	QPSK	36	36	18.88	19.08	18.87	20	0
15	QPSK	36	39	19.03	18.94	18.87	20	0
15	QPSK	75	0	19.01	18.99	18.77	20	0
15	16QAM	1	0	19.01	18.93	19.04	20	0
15	16QAM	1	37	18.96	18.99	19.04	20	0
15	16QAM	1	74	19.04	19.06	18.98	20	0
15	16QAM	36	0	18.91	18.91	18.95	20	0
15	16QAM	36	20	18.86	18.96	18.89	20	0
15	16QAM	36	39	18.92	18.86	18.76	20	0
15	16QAM	75	0	18.85	18.87	18.92	20	0
15	64QAM	1	0	19.03	18.98	18.98	20	0
15	64QAM	1	37	18.96	18.95	18.99	20	0
15	64QAM	1	74	18.85	19.00	18.97	20	0
15	64QAM	36	0	18.97	18.87	18.95	20	0
15	64QAM	36	20	18.93	18.98	18.88	20	0
15	64QAM	36	39	18.92	18.89	18.80	20	0
15	64QAM	75	0	18.98	18.93	18.95	20	0
Channel								
Frequency (MHz)								
10	QPSK	1	0	18.67	18.69	18.68	20	0
10	QPSK	1	25	19.01	19.05	18.88	20	0
10	QPSK	1	49	19.12	18.63	18.55	20	0
10	QPSK	25	0	18.79	18.75	18.92	20	0
10	QPSK	25	12	18.86	18.97	18.93	20	0
10	QPSK	25	25	18.99	18.88	18.79	20	0
10	QPSK	50	0	18.93	19.04	18.71	20	0
10	16QAM	1	0	18.98	18.96	18.99	20	0
10	16QAM	1	25	18.93	18.97	18.95	20	0
10	16QAM	1	49	18.94	19.04	19.01	20	0
10	16QAM	25	0	18.97	18.82	18.93	20	0
10	16QAM	25	12	18.91	18.89	18.87	20	0
10	16QAM	25	25	18.95	18.96	18.70	20	0
10	16QAM	50	0	18.96	18.92	18.84	20	0
10	64QAM	1	0	18.99	19.02	18.96	20	0
10	64QAM	1	25	18.99	18.98	19.05	20	0
10	64QAM	1	49	18.97	18.97	18.91	20	0
10	64QAM	25	0	18.96	18.87	18.83	20	0
10	64QAM	25	12	18.92	18.94	18.83	20	0
10	64QAM	25	25	18.95	18.95	18.78	20	0
10	64QAM	50	0	18.91	18.94	18.85	20	0
Channel								
Frequency (MHz)								
5	QPSK	1	0	18.60	18.70	18.64	20	0
5	QPSK	1	12	18.96	18.98	18.83	20	0
5	QPSK	1	24	18.68	18.57	18.62	20	0
5	QPSK	12	0	18.81	18.75	18.82	20	0
5	QPSK	12	7	18.96	19.06	19.04	20	0
5	QPSK	12	13	19.00	18.65	18.78	20	0
5	QPSK	25	0	18.99	19.00	18.74	20	0
5	16QAM	1	0	19.02	18.98	19.01	20	0
5	16QAM	1	12	18.91	18.94	18.97	20	0
5	16QAM	1	24	18.98	19.00	18.96	20	0
5	16QAM	12	0	18.94	18.85	18.91	20	0
5	16QAM	12	7	18.98	18.97	18.89	20	0
5	16QAM	12	13	18.86	18.89	18.89	20	0
5	16QAM	25	0	18.73	18.89	18.84	20	0
5	64QAM	1	0	19.05	19.04	18.99	20	0
5	64QAM	1	12	19.05	18.97	19.02	20	0
5	64QAM	1	24	18.95	19.00	18.97	20	0
5	64QAM	12	0	18.98	18.80	18.91	20	0
5	64QAM	12	7	18.90	18.99	18.80	20	0
5	64QAM	12	13	18.92	18.95	18.80	20	0
5	64QAM	25	0	18.91	18.92	18.85	20	0
Channel								
Frequency (MHz)								
3	QPSK	1	0	18.60	18.70	18.64	20	0
3	QPSK	1	8	18.95	19.02	18.80	20	0
3	QPSK	1	16	18.67	18.99	18.95	20	0
3	QPSK	8	0	18.78	18.81	18.93	20	0
3	QPSK	8	4	18.98	18.97	19.02	20	0
3	QPSK	8	7	18.99	18.88	18.86	20	0
3	QPSK	15	0	19.03	18.98	18.70	20	0
3	16QAM	1	0	18.93	19.01	18.95	20	0
3	16QAM	1	8	18.95	18.89	19.00	20	0
3	16QAM	1	16	18.98	19.01	18.99	20	0
3	16QAM	8	0	19.00	18.92	18.96	20	0
3	16QAM	8	4	18.95	18.89	18.95	20	0
3	16QAM	8	7	18.90	18.89	18.79	20	0
3	16QAM	15	0	18.70	18.82	18.83	20	0
3	64QAM	1	0	19.04	19.01	19.03	20	0
3	64QAM	1	8	18.98	18.92	18.97	20	0
3	64QAM	1	14	18.91	19.03	18.99	20	0
3	64QAM	8	0	18.97	18.85	18.99	20	0
3	64QAM	8	4	18.90	19.03	18.93	20	0
3	64QAM	8	7	18.92	18.97	18.78	20	0
3	64QAM	15	0	18.95	18.89	18.93	20	0
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	17.07	17.23	17.24	20	0
1.4	QPSK	1	3	18.54	18.74	18.74	20	0
1.4	QPSK	1	5	18.99	19.03	18.85	20	0
1.4	QPSK	3	0	18.78	18.75	18.87	20	0
1.4	QPSK	3	1	19.04	19.02	19.04	20	0
1.4	QPSK	3	3	18.93	18.91	18.84	20	0
1.4	QPSK	6	0	19.03	18.98	18.78	20	0
1.4	16QAM	1	0	19.01	19.02	18.95	20	0
1.4	16QAM	1	3	18.98	18.97	19.01	20	0
1.4	16QAM	1	5	18.99	18.89	19.01	20	0
1.4	16QAM	3	0	18.91	18.83	18.89	20	0
1.4	16QAM	3	1	18.95	18.92	18.87	20	0
1.4	16QAM	3	3	18.95	18.97	18.74	20	0
1.4	16QAM	6	0	18.72	18.79	18.54	20	0
1.4	64QAM	1	0	19.08	19.05	19.02	20	0
1.4	64QAM	1	3	18.98	18.93	19.04	20	0
1.4	64QAM	1	5	18.99	19.06	18.99	20	0
1.4	64QAM	3	0	18.95	18.78	18.94	20	0
1.4	64QAM	3	1	18.96	18.95	18.90	20	0
1.4	64QAM	3	3	18.95	18.97	18.70	20	0
1.4	64QAM	6	0	18.98	18.89	18.87	20	0

Band 4_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.28	19.50	19.63	20.5	0
20	QPSK	1	49	19.28	19.17	19.24	20.5	0
20	QPSK	1	99	19.43	19.42	19.45	20.5	0
20	QPSK	50	0	19.67	19.69	19.64	20.5	0
20	QPSK	50	24	19.18	19.18	19.15	20.5	0
20	QPSK	50	50	19.63	19.64	19.69	20.5	0
20	QPSK	100	0	19.69	19.72	19.64	20.5	0
20	16QAM	1	0	19.69	19.74	19.69	20.5	0
2								



Band 5_Ant 13

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains multiple channel frequency lists for various modulation types (QPSK, 16QAM, 64QAM) and RB sizes (1, 2, 3, 4, 5, 6, 7, 8, 12, 15, 25, 50).

Band 5_Ant 31

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains multiple channel frequency lists for various modulation types (QPSK, 16QAM, 64QAM) and RB sizes (1, 2, 3, 4, 5, 6, 7, 8, 12, 15, 25, 50).



Band 7_Ant 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								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	14.67	14.65	14.48	15.5	0
20	QPSK	1	49	14.72	14.81	14.81		
20	QPSK	1	99	14.72	14.81	14.81		
20	QPSK	50	0	14.81	14.81	14.85	15.5	0
20	QPSK	50	24	14.78	14.86	14.83		
20	QPSK	50	50	14.78	14.86	14.83		
20	QPSK	100	0	14.85	14.85	14.77	15.5	0
20	16QAM	1	0	14.83	14.82	14.85		
20	16QAM	1	49	14.89	14.87	14.81		
20	16QAM	1	99	14.78	14.83	14.85	15.5	0
20	16QAM	50	0	14.78	14.81	14.85		
20	16QAM	50	24	14.78	14.82	14.79		
20	16QAM	50	50	14.85	14.74	14.80	15.5	0
20	16QAM	100	0	14.79	14.88	14.70		
20	16QAM	100	0	14.78	14.73	14.84		
20	64QAM	1	0	14.83	14.80	14.83	15.5	0
20	64QAM	1	99	14.92	14.77	14.82		
20	64QAM	50	0	14.87	14.82	14.70		
20	64QAM	50	24	14.89	14.77	14.84	15.5	0
20	64QAM	50	50	14.85	14.84	14.85		
20	64QAM	100	0	14.77	14.84	14.75		
Channel				20625	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2097.5	2235	2292.5		
15	QPSK	1	0	14.84	14.81	14.43	15.5	0
15	QPSK	1	37	14.77	14.88	14.83		
15	QPSK	1	74	14.82	14.72	14.55		
15	QPSK	36	0	14.73	14.77	14.55	15.5	0
15	QPSK	36	20	14.80	14.78	14.85		
15	QPSK	36	39	14.75	14.82	14.55		
15	QPSK	75	0	14.77	14.81	14.73	15.5	0
15	QPSK	1	0	14.73	14.82	14.85		
15	16QAM	1	37	14.86	14.83	14.72		
15	16QAM	1	74	14.88	14.88	14.59	15.5	0
15	16QAM	36	0	14.74	14.73	14.53		
15	16QAM	36	20	14.73	14.84	14.73		
15	16QAM	36	39	14.74	14.88	14.70	15.5	0
15	16QAM	75	0	14.89	14.82	14.81		
15	64QAM	1	0	14.70	14.66	14.72		
15	64QAM	1	37	14.80	14.83	14.78	15.5	0
15	64QAM	1	74	14.87	14.72	14.70		
15	64QAM	36	0	14.78	14.70	14.86		
15	64QAM	36	20	14.78	14.73	14.80	15.5	0
15	64QAM	36	39	14.73	14.73	14.81		
15	64QAM	75	0	14.66	14.72	14.72		
Channel				20600	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2205	2235	2265		
10	QPSK	1	0	14.82	14.56	14.45	15.5	0
10	QPSK	1	25	14.73	14.89	14.83		
10	QPSK	1	49	14.65	14.78	14.53		
10	QPSK	25	0	14.73	14.81	14.60	15.5	0
10	QPSK	25	12	14.75	14.87	14.82		
10	QPSK	25	25	14.68	14.74	14.51		
10	QPSK	50	0	14.73	14.88	14.65	15.5	0
10	16QAM	1	0	14.78	14.86	14.76		
10	16QAM	1	49	14.78	14.82	14.89		
10	16QAM	1	99	14.68	14.60	14.83	15.5	0
10	16QAM	25	0	14.70	14.77	14.53		
10	16QAM	25	12	14.71	14.80	14.77		
10	16QAM	25	25	14.79	14.68	14.74	15.5	0
10	16QAM	50	0	14.67	14.83	14.68		
10	16QAM	50	0	14.74	14.70	14.73		
10	64QAM	1	0	14.80	14.86	14.81	15.5	0
10	64QAM	1	49	14.89	14.68	14.78		
10	64QAM	25	0	14.76	14.73	14.84		
10	64QAM	25	12	14.84	14.75	14.74	15.5	0
10	64QAM	25	25	14.74	14.74	14.80		
10	64QAM	50	0	14.69	14.76	14.65		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2202.5	2235	2267.5		
5	QPSK	1	0	14.65	14.54	14.38	15.5	0
5	QPSK	1	12	14.76	14.86	14.77		
5	QPSK	1	24	14.67	14.72	14.53		
5	QPSK	12	0	14.74	14.73	14.53	15.5	0
5	QPSK	12	7	14.72	14.88	14.81		
5	QPSK	12	13	14.76	14.74	14.55		
5	QPSK	25	0	14.78	14.77	14.70	15.5	0
5	16QAM	1	0	14.71	14.89	14.74		
5	16QAM	1	12	14.85	14.78	14.71		
5	16QAM	1	24	14.74	14.81	14.82	15.5	0
5	16QAM	12	0	14.71	14.77	14.54		
5	16QAM	12	7	14.76	14.88	14.87		
5	16QAM	12	13	14.77	14.87	14.89	15.5	0
5	16QAM	25	0	14.70	14.79	14.62		
5	64QAM	1	0	14.75	14.61	14.73		
5	64QAM	1	12	14.71	14.82	14.76	15.5	0
5	64QAM	1	24	14.82	14.73	14.73		
5	64QAM	12	0	14.83	14.77	14.68		
5	64QAM	12	7	14.77	14.65	14.70	15.5	0
5	64QAM	12	13	14.75	14.82	14.78		
5	64QAM	25	0	14.75	14.61	14.65		

Band 7_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	21.02	21.11	21.04	22	0
20	QPSK	1	49	21.03	21.01	21.03		
20	QPSK	1	99	21.03	21.01	21.03		
20	QPSK	50	0	20.91	21.07	20.82	22	0
20	QPSK	50	24	21.11	21.13	21.08		
20	QPSK	50	50	21.09	21.04	20.87		
20	QPSK	100	0	21.07	21.12	21.08	22	0
20	16QAM	1	0	21.01	21.04	20.99		
20	16QAM	1	49	21.06	21.00	21.01		
20	16QAM	1	99	21.05	21.11	21.04	22	0
20	16QAM	50	0	21.10	21.11	21.07		
20	16QAM	50	24	21.05	21.10	21.10		
20	16QAM	50	50	21.12	21.08	21.06	22	0
20	16QAM	100	0	21.05	21.08	21.08		
20	64QAM	1	0	21.05	21.06	21.07		
20	64QAM	1	49	21.12	21.08	21.09	22	0
20	64QAM	1	99	21.12	21.12	21.07		
20	64QAM	50	0	20.27	20.28	20.19		
20	64QAM	50	24	20.29	20.48	20.24	21	1
20	64QAM	50	50	20.37	20.33	20.16		
20	64QAM	100	0	20.28	20.47	20.18		
Channel				20625	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2207.5	2235	2262.5		
15	QPSK	1	0	20.92	20.95	21.04	22	0
15	QPSK	1	37	21.00	21.06	21.02		
15	QPSK	1	74	21.00	20.90	20.97		
15	QPSK	36	0	20.85	21.00	20.72	22	0
15	QPSK	36	20	21.05	21.08	20.87		
15	QPSK	36	39	21.04	20.98	20.93		
15	QPSK	75	0	21.00	21.09	21.05	22	0
15	16QAM	1	0	20.98	20.98	20.98		
15	16QAM	1	37	21.02	20.90	20.92		
15	16QAM	1	74	21.02	21.04	20.95	22	0
15	16QAM	36	0	21.02	20.98	20.98		
15	16QAM	36	20	21.02	21.08	21.02		
15	16QAM	36	39	21.05	21.00	20.95	22	0
15	16QAM	75	0	20.95	21.02	21.02		
15	64QAM	1	0	20.95	20.95	20.98		
15	64QAM	1	37	21.01	20.87	21.04	22	0
15	64QAM	1	74	21.08	21.01	21.02		
15	64QAM	36	0	21.04	20.93	20.93		
15	64QAM	36	20	20.20	20.42	20.18	21	1
15	64QAM	36	39	20.28	20.14	20.14		
15	64QAM	75	0	20.16	20.42	20.11		
Channel				20600	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2205	2235	2265		
10	QPSK	1	0	20.92	20.96	21.00	22	0
10	QPSK	1	25	21.02	21.10	21.05		
10	QPSK	1	49	20.97	20.98	20.95		
10	QPSK	25	0	20.88	21.01	20.78	22	0
10	QPSK	25	12	21.02	21.08	20.87		
10	QPSK	25	25	20.98	20.98	20.85		
10	QPSK	50	0	21.00	21.05	20.98	22	0
10	16QAM	1	0	20.90	20.96	20.87		
10	16QAM	1	49	20.95	20.95	20.97		
10	16QAM	1	99	20.95	21.07	20.95	22	0
10	16QAM	25	0	21.00	21.00	21.00		
10	16QAM	25	12	21.02	21.04	21.00		
10	16QAM	25	25	21.02	21.04	20.99	22	0



Band 12_Ant 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										
Frequency (MHz)										
10	QPSK	1	0	22.80	22.72	22.84	24	0		
10	QPSK	1	25	22.80	22.72	22.84				
10	QPSK	1	49	22.83	22.85	22.89				
10	QPSK	25	0	21.86	21.83	21.80				
10	QPSK	25	12	21.86	21.83	21.80	23	1		
10	QPSK	25	25	21.80	21.87	21.83				
10	QPSK	50	0	21.79	21.88	21.95				
10	16QAM	1	0	21.74	22.07	22.08				
10	16QAM	1	25	22.11	22.11	22.57	23	1		
10	16QAM	1	49	22.92	22.93	22.12				
10	16QAM	25	0	20.72	20.98	20.84				
10	16QAM	25	12	21.00	20.92	20.94				
10	16QAM	25	25	20.96	20.92	20.79	22	2		
10	16QAM	50	0	20.84	20.88	20.90				
10	16QAM	25	12	21.00	20.92	20.94				
10	16QAM	25	25	20.96	20.92	20.79				
10	64QAM	1	0	20.86	21.22	21.22	22	2		
10	64QAM	1	25	21.37	21.40	21.35				
10	64QAM	1	49	21.33	21.14	20.96				
10	64QAM	25	0	19.82	19.93	19.86				
10	64QAM	25	12	20.10	20.06	19.99	21	3		
10	64QAM	25	25	19.99	19.94	19.94				
10	64QAM	50	0	19.95	19.94	20.00				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.73	22.64	22.76	24	0		
5	QPSK	1	12	22.83	22.86	22.87				
5	QPSK	1	24	22.99	22.71	22.71				
5	QPSK	12	0	21.54	21.74	21.85				
5	QPSK	12	7	21.86	21.74	21.88	23	1		
5	QPSK	12	13	21.69	21.84	21.73				
5	QPSK	25	0	21.71	21.98	21.85				
5	16QAM	1	0	21.72	22.02	21.99				
5	16QAM	1	12	21.97	22.08	22.45	23	1		
5	16QAM	1	24	22.41	22.41	22.07				
5	16QAM	12	0	20.86	20.83	20.71				
5	16QAM	12	7	20.91	20.92	20.79				
5	16QAM	12	13	20.90	20.92	20.86	22	2		
5	16QAM	25	0	20.81	20.78	20.83				
5	64QAM	1	0	20.84	21.10	21.12				
5	64QAM	1	12	21.28	21.27	21.33				
5	64QAM	1	24	21.31	21.09	20.95	22	2		
5	64QAM	12	0	19.82	19.80	19.84				
5	64QAM	12	7	19.97	19.98	19.88				
5	64QAM	12	13	19.97	19.89	19.80				
5	64QAM	25	0	19.83	19.89	19.85	21	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.77	22.62	22.78			24	0
3	QPSK	1	8	22.91	22.98	22.78				
3	QPSK	1	14	22.78	22.75	22.80				
3	QPSK	8	0	21.83	21.80	21.74				
3	QPSK	8	4	21.89	21.75	21.75	23	1		
3	QPSK	8	7	21.97	21.82	21.74				
3	QPSK	15	0	21.78	21.85	21.90				
3	16QAM	1	0	21.70	22.08	22.04				
3	16QAM	1	8	21.96	22.06	22.54	23	1		
3	16QAM	1	14	22.46	22.38	22.08				
3	16QAM	8	0	20.87	20.80	20.72				
3	16QAM	8	4	20.87	20.81	20.80				
3	16QAM	8	7	20.84	20.88	20.79	22	2		
3	16QAM	15	0	20.82	20.82	20.90				
3	64QAM	1	0	20.80	21.16	21.13				
3	64QAM	1	8	21.37	21.30	21.23				
3	64QAM	1	14	21.33	21.02	20.84	22	2		
3	64QAM	8	0	19.87	19.88	19.83				
3	64QAM	8	4	20.04	19.94	19.85				
3	64QAM	8	7	19.96	19.89	19.84				
3	64QAM	15	0	19.98	19.93	19.90	21	3		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.70	22.74	22.81			24	0
1.4	QPSK	1	3	22.80	22.81	22.85				
1.4	QPSK	1	5	22.80	22.85	22.72				
1.4	QPSK	3	0	22.79	22.82	22.71				
1.4	QPSK	3	1	22.69	22.83	22.74	23	1		
1.4	QPSK	3	3	22.81	22.82	22.70				
1.4	QPSK	6	0	21.82	21.87	21.88				
1.4	16QAM	1	0	22.27	21.89	21.92				
1.4	16QAM	1	3	22.19	22.18	21.95	23	1		
1.4	16QAM	1	5	21.94	21.97	21.87				
1.4	16QAM	3	0	21.70	21.77	21.79				
1.4	16QAM	3	1	21.83	21.83	21.91				
1.4	16QAM	3	3	21.84	21.73	21.92	22	2		
1.4	16QAM	6	0	21.07	21.05	20.99				
1.4	64QAM	1	0	21.05	21.03	20.85				
1.4	64QAM	1	3	21.24	20.89	20.84				
1.4	64QAM	1	5	20.90	21.05	21.19	22	2		
1.4	64QAM	3	0	20.95	21.03	21.24				
1.4	64QAM	3	1	21.10	20.76	21.13				
1.4	64QAM	3	3	21.07	21.12	20.99				
1.4	64QAM	15	0	19.96	19.95	19.94	21	3		

Band 12_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.71	22.81	22.85	24	0		
10	QPSK	1	25	22.80	22.82	22.82				
10	QPSK	1	49	22.83	22.82	22.82				
10	QPSK	25	0	21.53	21.85	21.84				
10	QPSK	25	12	21.53	21.74	21.83	23	1		
10	QPSK	25	25	21.73	21.88	21.68				
10	QPSK	50	0	21.86	21.75	21.73				
10	16QAM	1	0	22.08	22.17	22.04				
10	16QAM	1	25	22.34	22.42	22.01	23	1		
10	16QAM	1	49	22.04	22.29	22.07				
10	16QAM	25	0	20.70	20.88	20.82				
10	16QAM	25	12	20.86	20.85	20.79				
10	16QAM	25	25	20.94	20.84	20.77	22	2		
10	16QAM	50	0	20.71	20.83	20.78				
10	64QAM	1	0	20.92	21.00	21.09				
10	64QAM	1	25	21.06	20.91	20.91				
10	64QAM	1	49	20.93	20.84	20.84	22	2		
10	64QAM	25	0	19.88	19.79	19.75				
10	64QAM	25	12	19.91	19.86	19.81				
10	64QAM	25	25	19.88	19.90	19.93				
10	64QAM	50	0	19.74	19.80	19.86	21	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.57	22.80	22.58			24	0
5	QPSK	1	12	22.76	22.83	22.84				
5	QPSK	1	24	22.73	22.81	22.71				
5	QPSK	12	0	21.42	21.84	21.84				
5	QPSK	12	7	21.80	21.69	21.78	23	1		
5	QPSK	12	13	21.81	21.83	21.51				
5	QPSK	25	0	21.53	21.72	21.71				
5	16QAM	1	0	21.98	22.06	22.06				
5	16QAM	1	12	22.24	22.41	21.95	23	1		
5	16QAM	1	24	21.95	22.23	22.06				
5	16QAM	12	0	20.58	20.61	20.68				
5	16QAM	12	7	20.78	20.73	20.74				
5	16QAM	12	13	20.75	20.78	20.72	22	2		
5	16QAM	25	0	20.17	20.17	20.81				
5	64QAM	1	0	20.81	20.80	21.02				
5	64QAM	1	12	20.92	20.84	20.77				
5	64QAM	1	24	20.98	20.78	20.77	22	2		
5	64QAM	12	0	19.55	19.69	19.70				
5	64QAM	12	7	19.77	19.81	19.78				
5	64QAM	12	13	19.79	19.80	19.80				
5	64QAM	25	0	19.74	19.71	19.73	21	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.69	22.82	22.82			24	0
3	QPSK	1	8	22.85	22.87	22.85				
3	QPSK	1	14	22.81	22.78	22.77				
3	QPSK	8	0	21.41	21.83	21.84				
3	QPSK	8	4	21.88	21.72	21.88	23	1		
3	QPSK	8	7	21.81	21.68	21.81				
3	QPSK	15	0	21.84	21.86	21.82				
3	16QAM	1	0	22.01	22.11	21.96				
3	16QAM	1	8	22.16	22.31	21.98	23	1		
3	16QAM	1	14	21.89	22.23	21.98				
3	16QAM	8	0	20.55	20.84	20.82				
3	16QAM	8	4	20.74	20.84	20.69				
3	16QAM	8	7	20.83	20.71	20.65	22	2		
3	16QAM	15	0	20.69	20.63	20.64				
3	64QAM	1	0	20.82	20.95	21.05				
3	64QAM	1	8	21.00	20.90	20.86				
3	64QAM	1	14	20.85	20.82	20.81	22	2		
3	64QAM	8	0	19.84	19.70	19.71				
3	64QAM	8	4	19.87	19.77	19.80				
3	64QAM	8	7	19.82	19.85	19.85				
3	64QAM	15	0	19.59	19.80	19.76	21	3		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.70	22.57	22.52			24	



Band 13_Ant 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 23200								
Frequency (MHz)								
10	QPSK	1	0	23.01	23.01	23.01	24	0
10	QPSK	1	25	22.83	22.83	22.83		
10	QPSK	1	49	22.98	22.98	22.98		
10	QPSK	25	0	21.80	21.80	21.80	23	1
10	QPSK	25	12	21.83	21.83	21.83		
10	QPSK	25	25	21.89	21.89	21.89		
10	QPSK	50	0	21.95	21.95	21.95	23	1
10	16QAM	1	0	22.25	22.25	22.25		
10	16QAM	1	25	22.37	22.37	22.37		
10	16QAM	1	49	22.43	22.43	22.43	22	2
10	16QAM	25	0	20.98	20.98	20.98		
10	16QAM	25	12	21.15	21.15	21.15		
10	16QAM	25	25	20.98	20.98	20.98	22	2
10	16QAM	50	0	20.98	20.98	20.98		
10	64QAM	1	0	21.15	21.15	21.15		
10	64QAM	1	25	21.08	21.08	21.08	22	2
10	64QAM	1	49	21.32	21.32	21.32		
10	64QAM	25	0	19.90	19.90	19.90		
10	64QAM	25	12	20.08	20.08	20.08	21	3
10	64QAM	25	25	19.94	19.94	19.94		
10	64QAM	50	0	19.95	19.95	19.95		
Channel 23250								
Frequency (MHz)								
5	QPSK	1	0	22.99	22.96	22.96	24	0
5	QPSK	1	12	22.86	22.80	22.83		
5	QPSK	1	24	22.97	22.83	22.96		
5	QPSK	12	0	21.79	21.72	21.76	23	1
5	QPSK	12	7	21.96	21.97	21.95		
5	QPSK	12	13	21.84	21.76	21.89		
5	QPSK	25	0	21.88	21.77	21.84	23	1
5	16QAM	1	0	22.21	22.20	22.12		
5	16QAM	1	12	22.37	22.29	22.27		
5	16QAM	1	24	22.32	22.28	22.37	22	2
5	16QAM	12	0	20.72	20.84	20.73		
5	16QAM	12	7	21.01	21.11	21.10		
5	16QAM	12	13	20.88	20.83	20.88	22	2
5	16QAM	25	0	20.90	20.88	20.95		
5	64QAM	1	0	21.00	21.10	21.07		
5	64QAM	1	12	21.06	21.04	21.06	22	2
5	64QAM	1	24	21.22	21.18	21.24		
5	64QAM	12	0	19.90	19.82	19.89		
5	64QAM	12	7	20.02	19.97	20.02	21	3
5	64QAM	12	13	19.91	19.85	19.94		
5	64QAM	25	0	19.80	19.80	19.75		

Band 13_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel 23200								
Frequency (MHz)								
10	QPSK	1	0	22.83	22.83	22.83	24	0
10	QPSK	1	25	22.88	22.88	22.88		
10	QPSK	1	49	22.85	22.85	22.85		
10	QPSK	25	0	21.67	21.67	21.67	23	1
10	QPSK	25	12	21.67	21.67	21.67		
10	QPSK	25	25	21.74	21.74	21.74		
10	QPSK	50	0	21.76	21.76	21.76	23	1
10	16QAM	1	0	21.98	21.98	21.98		
10	16QAM	1	25	22.01	22.01	22.01		
10	16QAM	1	49	21.95	21.95	21.95	22	2
10	16QAM	25	0	20.75	20.75	20.75		
10	16QAM	25	12	20.79	20.79	20.79		
10	16QAM	25	25	20.68	20.68	20.68	22	2
10	16QAM	50	0	20.78	20.78	20.78		
10	64QAM	1	0	21.06	21.06	21.06		
10	64QAM	1	25	21.16	21.16	21.16	22	2
10	64QAM	1	49	20.94	20.94	20.94		
10	64QAM	25	0	19.85	19.85	19.85		
10	64QAM	25	12	19.88	19.88	19.88	21	3
10	64QAM	25	25	19.73	19.73	19.73		
10	64QAM	50	0	19.76	19.76	19.76		
Channel 23250								
Frequency (MHz)								
5	QPSK	1	0	22.82	22.73	22.83	24	0
5	QPSK	1	12	22.81	22.85	22.74		
5	QPSK	1	24	22.72	22.80	22.79		
5	QPSK	12	0	21.53	21.81	21.80	23	1
5	QPSK	12	7	21.85	21.87	21.85		
5	QPSK	12	13	21.05	21.73	21.67		
5	QPSK	25	0	21.75	21.65	21.82	23	1
5	16QAM	1	0	21.93	21.85	21.89		
5	16QAM	1	12	21.94	21.87	21.91		
5	16QAM	1	24	21.91	21.89	21.89	22	2
5	16QAM	12	0	20.70	20.66	20.69		
5	16QAM	12	7	20.84	20.98	20.76		
5	16QAM	12	13	20.57	20.67	20.58	22	2
5	16QAM	25	0	20.77	20.75	20.75		
5	64QAM	1	0	21.04	21.02	21.05		
5	64QAM	1	12	21.16	21.06	21.16	22	2
5	64QAM	1	24	20.85	20.91	20.82		
5	64QAM	12	0	19.70	19.71	19.79		
5	64QAM	12	7	19.85	19.74	19.75	21	3
5	64QAM	12	13	19.72	19.69	19.64		
5	64QAM	25	0	19.67	19.66	19.75		



Band 17_Ant 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								
Frequency (MHz)				2370	2390	2390		
10	QPSK	1	0	22.73	22.85	22.86	24	0
10	QPSK	1	25	22.83	22.95	22.96		
10	QPSK	1	49	22.86	22.86	22.93		
10	QPSK	25	0	21.80	21.77	21.72	23	1
10	QPSK	25	12	21.83	21.80	21.83		
10	QPSK	25	25	21.81	21.84	21.76		
10	QPSK	50	0	21.81	21.88	21.78	23	1
10	16QAM	1	0	22.08	22.04	22.35		
10	16QAM	1	25	22.49	22.05	22.05		
10	16QAM	1	49	22.35	22.05	22.23	22	2
10	16QAM	25	0	20.86	20.82	20.77		
10	16QAM	25	12	20.88	20.84	20.87		
10	16QAM	25	25	21.00	20.84	20.84	22	2
10	16QAM	50	0	20.81	20.83	20.83		
10	64QAM	1	0	21.19	21.18	21.14		
10	64QAM	1	25	21.39	21.27	21.21	22	2
10	64QAM	1	49	21.12	21.16	21.09		
10	64QAM	25	0	19.94	19.88	19.89		
10	64QAM	25	12	20.00	19.82	19.98	21	3
10	64QAM	25	25	19.95	19.88	19.78		
10	64QAM	50	0	19.86	19.88	19.83		
Channel				2370	2390	2390	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.58	22.72	22.86	24	0
5	QPSK	1	12	22.87	22.86	22.86		
5	QPSK	1	24	22.74	22.76	22.85		
5	QPSK	12	0	21.74	21.7	21.67	23	1
5	QPSK	12	7	21.75	21.78	21.8		
5	QPSK	12	13	21.69	21.81	21.73		
5	QPSK	25	0	21.76	21.82	21.65	23	1
5	16QAM	1	0	22.04	22.01	22.28		
5	16QAM	1	12	22.48	22.05	22.1		
5	16QAM	1	24	22.22	22.03	22.14	22	2
5	16QAM	12	0	20.79	20.69	20.74		
5	16QAM	12	7	20.79	20.53	20.73		
5	16QAM	12	13	20.91	20.72	20.82	22	2
5	16QAM	25	0	20.76	20.68	20.68		
5	64QAM	1	0	21.11	21.09	21.09		
5	64QAM	1	12	21.32	21.18	21.07	22	2
5	64QAM	1	24	21.06	21.12	21.06		
5	64QAM	12	0	19.87	19.73	19.76		
5	64QAM	12	7	19.98	19.86	19.84	21	3
5	64QAM	12	13	19.8	19.77	19.71		
5	64QAM	25	0	19.71	19.75	19.79		

Band 17_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				706	710	711		
10	QPSK	1	0	22.69	22.72	22.62	24	0
10	QPSK	1	25	22.81	22.88	22.82		
10	QPSK	1	49	22.72	22.70	22.75		
10	QPSK	25	0	21.84	21.73	21.59	23	1
10	QPSK	25	12	21.73	21.78	21.77		
10	QPSK	25	25	21.89	21.74	21.64		
10	QPSK	50	0	21.70	21.72	21.66	23	1
10	16QAM	1	0	21.80	22.07	22.15		
10	16QAM	1	25	21.76	22.04	21.89		
10	16QAM	1	49	22.10	22.09	21.91	22	2
10	16QAM	25	0	20.78	20.73	20.73		
10	16QAM	25	12	20.79	20.79	20.76		
10	16QAM	25	25	20.79	20.72	20.71	22	2
10	16QAM	50	0	20.81	20.78	20.71		
10	64QAM	1	0	20.92	20.73	21.10		
10	64QAM	1	25	20.91	21.18	20.96	22	2
10	64QAM	1	49	20.79	20.83	21.08		
10	64QAM	25	0	19.76	19.80	19.76		
10	64QAM	25	12	19.89	19.86	19.89	21	3
10	64QAM	25	25	19.87	19.83	19.67		
10	64QAM	50	0	19.89	19.79	19.69		
Channel				2370	2390	2390	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.84	22.82	22.80	24	0
5	QPSK	1	12	22.71	22.80	22.79		
5	QPSK	1	24	22.57	22.81	22.83		
5	QPSK	12	0	21.60	21.71	21.45	23	1
5	QPSK	12	7	21.59	21.72	21.64		
5	QPSK	12	13	21.62	21.69	21.62		
5	QPSK	25	0	21.66	21.89	21.53	23	1
5	16QAM	1	0	21.69	22.03	22.13		
5	16QAM	1	12	21.64	21.94	21.81		
5	16QAM	1	24	22.03	22.07	21.88	22	2
5	16QAM	12	0	20.66	20.70	20.68		
5	16QAM	12	7	20.75	20.74	20.72		
5	16QAM	12	13	20.85	20.69	20.68	22	2
5	16QAM	25	0	20.73	20.77	20.65		
5	64QAM	1	0	20.80	20.81	21.09		
5	64QAM	1	12	20.84	21.08	20.92	22	2
5	64QAM	1	24	20.84	20.81	21.05		
5	64QAM	12	0	19.72	19.76	19.65		
5	64QAM	12	7	19.93	19.78	19.78	21	3
5	64QAM	12	13	19.73	19.68	19.60		
5	64QAM	25	0	19.79	19.68	19.61		



Band 18_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	22.97	22.97	22.97	24.5	0
15	QPSK	1	37	23.20	23.20	23.20		
15	QPSK	1	74	23.00	23.00	23.00		
15	QPSK	36	0	22.12	22.12	22.12	23.5	1
15	QPSK	36	20	22.31	22.31	22.31		
15	QPSK	36	39	22.25	22.25	22.25		
15	QPSK	75	0	22.23	22.23	22.23	23.5	1
15	16QAM	1	0	22.24	22.24	22.24		
15	16QAM	1	37	22.51	22.51	22.51		
15	16QAM	1	74	22.53	22.53	22.53	22.5	2
15	16QAM	36	0	21.17	21.17	21.17		
15	16QAM	36	20	21.27	21.27	21.27		
15	16QAM	36	39	21.16	21.16	21.16	22.5	2
15	16QAM	75	0	21.28	21.28	21.28		
15	64QAM	1	0	21.17	21.17	21.17		
15	64QAM	1	37	21.38	21.38	21.38	22.5	2
15	64QAM	1	74	21.91	21.91	21.91		
15	64QAM	36	0	20.24	20.24	20.24		
15	64QAM	36	20	20.19	20.19	20.19	21.5	3
15	64QAM	36	39	20.25	20.25	20.25		
15	64QAM	75	0	20.16	20.16	20.16		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.92	22.91	22.86	24.5	0
10	QPSK	1	25	23.17	23.09	23.18		
10	QPSK	1	49	22.93	22.89	22.87		
10	QPSK	25	0	22.00	22.05	22.00	23.5	1
10	QPSK	25	12	22.17	22.17	22.25		
10	QPSK	25	25	22.25	22.14	22.14		
10	QPSK	50	0	22.23	22.20	22.21	23.5	1
10	16QAM	1	0	22.09	22.13	22.23		
10	16QAM	1	25	22.42	22.47	22.40		
10	16QAM	1	49	22.49	22.53	22.44	22.5	2
10	16QAM	25	0	21.05	21.02	21.13		
10	16QAM	25	12	21.13	21.22	21.15		
10	16QAM	25	25	21.13	21.07	21.16	22.5	2
10	16QAM	50	0	21.18	21.19	21.18		
10	64QAM	1	0	21.02	21.11	21.08		
10	64QAM	1	25	21.34	21.29	21.36	22.5	2
10	64QAM	1	49	20.93	20.89	20.88		
10	64QAM	25	0	20.24	20.21	20.23		
10	64QAM	25	12	20.10	20.09	20.18	21.5	3
10	64QAM	25	25	20.23	20.17	20.14		
10	64QAM	50	0	20.08	20.09	20.08		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.93	22.91	22.96	24.5	0
5	QPSK	1	12	23.16	23.17	23.13		
5	QPSK	1	24	22.98	22.87	22.97		
5	QPSK	12	0	22.01	22.01	22.08	23.5	1
5	QPSK	12	7	22.19	22.27	22.28		
5	QPSK	12	13	22.22	22.14	22.18		
5	QPSK	25	0	22.12	22.16	22.22	23.5	1
5	16QAM	1	0	22.17	22.09	22.23		
5	16QAM	1	12	22.39	22.42	22.37		
5	16QAM	1	24	22.50	22.52	22.53	22.5	2
5	16QAM	12	0	21.02	21.03	21.09		
5	16QAM	12	7	21.20	21.22	21.21		
5	16QAM	12	13	21.16	21.10	21.08	22.5	2
5	16QAM	25	0	21.29	21.17	21.18		
5	64QAM	1	0	21.07	21.17	21.02		
5	64QAM	1	12	21.32	21.23	21.37	22.5	2
5	64QAM	1	24	20.95	21.00	20.90		
5	64QAM	12	0	20.21	20.10	20.22		
5	64QAM	12	7	20.07	20.10	20.11	21.5	3
5	64QAM	12	13	20.20	20.10	20.12		
5	64QAM	25	0	20.05	20.09	20.12		

Band 18_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.76	22.76	22.76	24	0
15	QPSK	1	37	22.53	22.53	22.53		
15	QPSK	1	74	22.89	22.89	22.89		
15	QPSK	36	0	21.88	21.88	21.88	23	1
15	QPSK	36	20	21.98	21.98	21.98		
15	QPSK	36	39	21.88	21.88	21.88		
15	QPSK	75	0	21.81	21.81	21.81	23	1
15	16QAM	1	0	22.12	22.12	22.12		
15	16QAM	1	37	22.50	22.50	22.50		
15	16QAM	1	74	22.06	22.06	22.06	22	2
15	16QAM	36	0	20.94	20.94	20.94		
15	16QAM	36	20	20.99	20.99	20.99		
15	16QAM	36	39	21.01	21.01	21.01	22	2
15	16QAM	75	0	20.95	20.95	20.95		
15	64QAM	1	0	20.95	20.95	20.95		
15	64QAM	1	37	21.33	21.33	21.33	22	2
15	64QAM	1	74	21.21	21.21	21.21		
15	64QAM	36	0	19.93	19.93	19.93		
15	64QAM	36	20	19.97	19.97	19.97	21	3
15	64QAM	36	39	19.99	19.99	19.99		
15	64QAM	75	0	19.93	19.93	19.93		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.81	22.84	22.74	24	0
10	QPSK	1	25	22.83	22.87	22.86		
10	QPSK	1	49	22.75	22.84	22.81		
10	QPSK	25	0	21.84	21.81	21.86	23	1
10	QPSK	25	12	21.87	21.86	21.83		
10	QPSK	25	25	21.78	21.73	21.75		
10	QPSK	50	0	21.77	21.82	21.88	23	1
10	16QAM	1	0	22.09	22.05	22.12		
10	16QAM	1	25	22.44	22.40	22.48		
10	16QAM	1	49	22.03	21.99	22.04	22	2
10	16QAM	25	0	20.92	20.99	20.99		
10	16QAM	25	12	20.94	20.87	20.99		
10	16QAM	25	25	21.01	20.95	21.01	22	2
10	16QAM	50	0	20.81	20.94	20.81		
10	64QAM	1	0	21.05	21.00	21.05		
10	64QAM	1	25	21.27	21.32	21.29	22	2
10	64QAM	1	49	21.17	21.18	21.11		
10	64QAM	25	0	19.88	19.86	19.80		
10	64QAM	25	12	19.90	19.88	19.92	21	3
10	64QAM	25	25	19.94	19.88	19.94		
10	64QAM	50	0	19.87	19.86	19.92		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.62	22.65	22.65	24	0
5	QPSK	1	12	22.86	22.84	22.85		
5	QPSK	1	24	22.78	22.74	22.83		
5	QPSK	12	0	21.87	21.87	21.81	23	1
5	QPSK	12	7	21.93	21.81	21.84		
5	QPSK	12	13	21.74	21.85	21.75		
5	QPSK	25	0	21.82	21.81	21.90	23	1
5	16QAM	1	0	21.99	22.04	22.00		
5	16QAM	1	12	22.35	22.46	22.36		
5	16QAM	1	24	22.03	22.02	21.96	22	2
5	16QAM	12	0	20.81	20.93	20.94		
5	16QAM	12	7	20.92	20.83	20.84		
5	16QAM	12	13	20.95	20.95	20.95	22	2
5	16QAM	25	0	20.92	20.85	20.87		
5	64QAM	1	0	20.85	20.85	20.85		
5	64QAM	1	12	21.23	21.21	21.24	22	2
5	64QAM	1	24	21.16	21.13	21.08		
5	64QAM	12	0	19.85	19.90	19.86		
5	64QAM	12	7	19.82	19.87	19.83	21	3
5	64QAM	12	13	19.91	19.87	19.88		
5	64QAM	25	0	19.83	19.87	19.86		



Band 19_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	23.06	23.06	23.06	24.5	0
15	QPSK	1	37	23.02	23.02	23.02		
15	QPSK	1	74	23.05	23.05	23.05		
15	QPSK	36	0	22.19	22.19	22.19	23.5	1
15	QPSK	36	20	22.24	22.24	22.24		
15	QPSK	36	39	22.06	22.06	22.06		
15	QPSK	75	0	22.16	22.16	22.16	23.5	1
15	16QAM	1	0	22.31	22.31	22.31		
15	16QAM	1	37	22.37	22.37	22.37		
15	16QAM	1	74	22.45	22.45	22.45	22.5	2
15	16QAM	36	0	21.09	21.09	21.09		
15	16QAM	36	20	21.26	21.26	21.26		
15	16QAM	36	39	21.20	21.20	21.20	22.5	2
15	16QAM	75	0	21.19	21.19	21.19		
15	64QAM	1	0	21.50	21.50	21.50		
15	64QAM	1	37	21.07	21.07	21.07	22.5	2
15	64QAM	1	74	21.15	21.15	21.15		
15	64QAM	36	0	20.23	20.23	20.23		
15	64QAM	36	20	20.42	20.42	20.42	21.5	3
15	64QAM	36	39	20.14	20.14	20.14		
15	64QAM	75	0	20.18	20.18	20.18		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.02	23.02	23.06	24.5	0
10	QPSK	1	25	23.15	23.18	23.12		
10	QPSK	1	49	22.98	22.91	23.04		
10	QPSK	25	0	22.08	22.16	22.17	23.5	1
10	QPSK	25	12	22.11	22.24	22.14		
10	QPSK	25	25	21.99	21.92	21.96		
10	QPSK	50	0	22.07	22.13	22.12	23.5	1
10	16QAM	1	0	22.26	22.23	22.18		
10	16QAM	1	25	22.35	22.36	22.29		
10	16QAM	1	49	22.30	22.32	22.31	22.5	2
10	16QAM	25	0	21.03	21.08	21.03		
10	16QAM	25	12	21.12	21.26	21.24		
10	16QAM	25	25	21.07	21.08	21.06	22.5	2
10	16QAM	50	0	21.14	21.04	21.08		
10	64QAM	1	0	21.35	21.45	21.49		
10	64QAM	1	25	20.98	20.99	20.99	22.5	2
10	64QAM	1	49	21.06	21.05	21.07		
10	64QAM	25	0	20.08	20.12	20.11		
10	64QAM	25	12	20.26	20.18	20.31	21.5	3
10	64QAM	25	25	20.12	19.69	20.14		
10	64QAM	50	0	20.17	20.07	20.03		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.94	22.94	22.95	24.5	0
5	QPSK	1	12	23.14	23.14	23.06		
5	QPSK	1	24	22.96	23.01	22.94		
5	QPSK	12	0	22.04	22.05	22.06	23.5	1
5	QPSK	12	7	22.23	22.24	22.24		
5	QPSK	12	13	22.04	21.83	21.94		
5	QPSK	25	0	22.07	22.03	22.13	23.5	1
5	16QAM	1	0	22.27	22.20	22.28		
5	16QAM	1	12	22.23	22.36	22.27		
5	16QAM	1	24	22.41	22.34	22.35	22.5	2
5	16QAM	12	0	20.96	21.04	20.97		
5	16QAM	12	7	21.14	21.18	21.21		
5	16QAM	12	13	21.11	21.12	21.10	22.5	2
5	16QAM	25	0	21.04	21.08	21.16		
5	64QAM	1	0	21.43	21.35	21.46		
5	64QAM	1	12	21.00	21.00	21.05	22.5	2
5	64QAM	1	24	21.05	21.13	21.05		
5	64QAM	12	0	20.18	20.15	20.12		
5	64QAM	12	7	20.23	20.20	20.19	21.5	3
5	64QAM	12	13	20.06	20.09	20.01		
5	64QAM	25	0	20.10	20.16	20.03		

Band 19_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.75	22.75	22.75	24	0
15	QPSK	1	37	22.32	22.32	22.32		
15	QPSK	1	74	22.73	22.73	22.73		
15	QPSK	36	0	21.90	21.90	21.90	23	1
15	QPSK	36	20	21.97	21.97	21.97		
15	QPSK	36	39	21.95	21.95	21.95		
15	QPSK	75	0	21.92	21.92	21.92	23	1
15	16QAM	1	0	22.03	22.03	22.03		
15	16QAM	1	37	22.10	22.10	22.10		
15	16QAM	1	74	21.80	21.80	21.80	22	2
15	16QAM	36	0	20.91	20.91	20.91		
15	16QAM	36	20	21.03	21.03	21.03		
15	16QAM	36	39	20.87	20.87	20.87	22	2
15	16QAM	75	0	20.99	20.99	20.99		
15	64QAM	1	0	20.96	20.96	20.96		
15	64QAM	1	37	20.89	20.89	20.89	22	2
15	64QAM	1	74	21.01	21.01	21.01		
15	64QAM	36	0	20.05	20.05	20.05		
15	64QAM	36	20	20.00	20.00	20.00	21	3
15	64QAM	36	39	19.89	19.89	19.89		
15	64QAM	75	0	20.00	20.00	20.00		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.74	22.74	22.72	24	0
10	QPSK	1	25	22.76	22.81	22.81		
10	QPSK	1	49	22.67	22.61	22.73		
10	QPSK	25	0	21.86	21.89	21.75	23	1
10	QPSK	25	12	21.95	21.88	21.92		
10	QPSK	25	25	21.81	21.91	21.95		
10	QPSK	50	0	21.81	21.86	21.84	23	1
10	16QAM	1	0	21.95	22.00	21.98		
10	16QAM	1	25	21.99	22.03	22.09		
10	16QAM	1	49	21.85	21.69	21.70	22	2
10	16QAM	25	0	20.84	20.79	20.81		
10	16QAM	25	12	20.89	20.98	21.02		
10	16QAM	25	25	20.83	20.78	20.84	22	2
10	16QAM	50	0	20.76	20.86	20.86		
10	64QAM	1	0	20.84	20.88	20.94		
10	64QAM	1	25	20.89	20.76	20.78	22	2
10	64QAM	1	49	20.95	21.01	20.96		
10	64QAM	25	0	20.02	20.04	19.97		
10	64QAM	25	12	19.92	19.99	19.90	21	3
10	64QAM	25	25	19.84	19.77	19.86		
10	64QAM	50	0	19.85	20.00	19.94		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.63	22.68	22.68	24	0
5	QPSK	1	12	22.87	22.85	22.84		
5	QPSK	1	24	22.65	22.63	22.58		
5	QPSK	12	0	21.81	21.87	21.89	23	1
5	QPSK	12	7	21.83	21.94	21.90		
5	QPSK	12	13	21.80	21.81	21.89		
5	QPSK	25	0	21.82	21.85	21.87	23	1
5	16QAM	1	0	22.02	22.03	22.02		
5	16QAM	1	12	21.98	22.06	21.95		
5	16QAM	1	24	21.83	21.59	21.57	22	2
5	16QAM	12	0	20.87	20.76	20.85		
5	16QAM	12	7	20.95	21.00	20.94		
5	16QAM	12	13	20.72	20.82	20.73	22	2
5	16QAM	25	0	20.78	20.81	20.78		
5	64QAM	1	0	20.82	20.84	20.84		
5	64QAM	1	12	20.84	20.76	20.86	22	2
5	64QAM	1	24	20.90	20.95	20.97		
5	64QAM	12	0	20.01	19.94	19.94		
5	64QAM	12	7	19.91	19.98	20.00	21	3
5	64QAM	12	13	19.81	19.81	19.75		
5	64QAM	25	0	19.87	19.85	19.97		



Band 26_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	23.26	23.41	23.40	24.5	0
15	QPSK	1	37	23.11	23.11	23.11		
15	QPSK	1	74	23.29	23.40	23.38		
15	QPSK	38	0	22.34	22.47	22.46	23.5	1
15	QPSK	38	20	22.12	22.12	22.12		
15	QPSK	38	39	22.39	22.49	22.38		
15	QPSK	75	0	22.60	22.65	22.62	23.5	1
15	16QAM	1	0	23.01	23.01	22.98		
15	16QAM	1	37	22.89	23.03	23.01		
15	16QAM	1	74	22.81	22.83	22.86	22.5	2
15	16QAM	38	0	21.37	21.47	21.44		
15	16QAM	38	20	21.49	21.63	21.58		
15	16QAM	38	39	21.51	21.52	21.41	21.5	3
15	16QAM	75	0	21.39	21.45	21.31		
15	16QAM	1	0	21.84	21.91	21.86		
15	64QAM	1	37	21.92	21.97	21.85	22.5	2
15	64QAM	1	74	21.70	21.74	21.73		
15	64QAM	38	0	20.42	20.45	20.44		
15	64QAM	38	20	20.45	20.51	20.51	21.5	3
15	64QAM	38	39	20.43	20.51	20.45		
15	64QAM	75	0	20.31	20.45	20.30		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.15	23.32	23.38	24.5	0
10	QPSK	1	25	23.44	23.44	23.40		
10	QPSK	1	49	23.16	23.38	23.38		
10	QPSK	25	0	22.23	22.47	22.36	23.5	1
10	QPSK	25	12	22.08	22.27	22.27		
10	QPSK	25	25	22.39	22.37	22.25		
10	QPSK	50	0	22.57	22.57	22.5	23.5	1
10	16QAM	1	0	22.97	22.92	22.92		
10	16QAM	1	25	22.8	22.9	22.87		
10	16QAM	1	49	22.69	22.81	22.77	22.5	2
10	16QAM	25	0	21.27	21.45	21.42		
10	16QAM	25	12	21.48	21.51	21.56		
10	16QAM	25	25	21.4	21.42	21.35	21.5	3
10	16QAM	50	0	21.27	21.38	21.38		
10	64QAM	1	0	21.81	21.77	21.72		
10	64QAM	1	25	21.88	21.82	21.72	22.5	2
10	64QAM	1	49	21.69	21.71	21.62		
10	64QAM	25	0	20.4	20.45	20.33		
10	64QAM	25	12	20.35	20.48	20.4	21.5	3
10	64QAM	25	25	20.43	20.51	20.33		
10	64QAM	50	0	20.16	20.39	20.18		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.24	23.32	23.34	24.5	0
5	QPSK	1	12	23.54	23.69	23.51		
5	QPSK	1	24	23.18	23.34	23.33		
5	QPSK	12	0	22.34	22.47	22.43	23.5	1
5	QPSK	12	7	22.81	22.63	22.57		
5	QPSK	12	13	22.28	22.44	22.34		
5	QPSK	25	0	22.55	22.61	22.49	23.5	1
5	16QAM	1	0	22.87	22.83	22.84		
5	16QAM	1	12	22.83	22.89	22.87		
5	16QAM	1	24	22.74	22.83	22.77	22.5	2
5	16QAM	12	0	21.29	21.35	21.33		
5	16QAM	12	7	21.38	21.5	21.58		
5	16QAM	12	13	21.48	21.47	21.29	21.5	3
5	16QAM	25	0	21.35	21.43	21.17		
5	64QAM	1	0	21.8	21.79	21.8		
5	64QAM	1	12	21.91	21.97	21.72	22.5	2
5	64QAM	1	24	21.67	21.68	21.68		
5	64QAM	12	0	20.34	20.51	20.36		
5	64QAM	12	7	20.41	20.48	20.45	21.5	3
5	64QAM	12	13	20.29	20.43	20.36		
5	64QAM	25	0	20.31	20.35	20.25		
Channel								
Frequency (MHz)								
3	QPSK	1	0	23.19	23.41	23.34	24.5	0
3	QPSK	1	8	23.44	23.61	23.59		
3	QPSK	1	14	23.21	23.29	23.28		
3	QPSK	8	0	22.28	22.36	22.4	23.5	1
3	QPSK	8	4	22.55	22.72	22.45		
3	QPSK	8	7	22.3	22.44	22.23		
3	QPSK	15	0	22.5	22.55	22.61	23.5	1
3	16QAM	1	0	22.93	22.88	22.98		
3	16QAM	1	8	22.86	22.88	22.95		
3	16QAM	1	14	22.79	22.8	22.79	22.5	2
3	16QAM	8	0	21.24	21.46	21.38		
3	16QAM	8	4	21.47	21.51	21.48		
3	16QAM	8	7	21.42	21.45	21.36	21.5	3
3	16QAM	15	0	21.26	21.38	21.27		
3	64QAM	1	0	21.7	21.79	21.75		
3	64QAM	1	8	21.83	21.93	21.76	22.5	2
3	64QAM	1	14	21.68	21.64	21.58		
3	64QAM	8	0	20.34	20.48	20.44		
3	64QAM	8	4	20.37	20.57	20.48	21.5	3
3	64QAM	8	7	20.42	20.38	20.27		
3	64QAM	15	0	20.17	20.4	20.18		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.14	23.34	23.23	24.5	0
1.4	QPSK	1	3	23.49	23.65	23.59		
1.4	QPSK	1	6	23.28	23.29	23.31		
1.4	QPSK	3	0	22.31	22.35	22.37	23.5	1
1.4	QPSK	3	1	23.24	23.27	23.34		
1.4	QPSK	3	3	23.23	23.37	23.24		
1.4	QPSK	6	0	22.48	22.57	22.55	23.5	1
1.4	16QAM	1	0	22.97	22.96	22.90		
1.4	16QAM	1	3	22.98	22.88	22.90		
1.4	16QAM	1	6	22.71	22.81	22.81	22.5	2
1.4	16QAM	3	0	22.62	22.65	22.49		
1.4	16QAM	3	1	22.61	22.69	22.51		
1.4	16QAM	3	3	22.57	22.60	22.57	21.5	3
1.4	16QAM	6	0	21.33	21.42	21.31		
1.4	64QAM	1	0	21.78	21.87	21.74		
1.4	64QAM	1	3	21.89	21.85	21.77	22.5	2
1.4	64QAM	1	6	21.69	21.71	21.72		
1.4	64QAM	3	0	21.44	21.46	21.46		
1.4	64QAM	3	1	21.44	21.47	21.31	21.5	3
1.4	64QAM	3	3	21.45	21.48	21.28		
1.4	64QAM	6	0	20.20	20.39	20.16		

Band 26_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.84	22.89	22.89	24	0
15	QPSK	1	37	23.15	23.15	23.15		
15	QPSK	1	74	22.91	22.91	22.89		
15	QPSK	38	0	21.83	21.92	21.83	23	1
15	QPSK	38	20	22.05	22.05	22.05		
15	QPSK	38	39	21.95	22.01	21.88		
15	QPSK	75	0	21.97	22.02	21.94	23	1
15	16QAM	1	0	22.25	22.22	22.21		
15	16QAM	1	37	22.38	22.48	22.39		
15	16QAM	1	74	22.21	22.27	22.20	22	2
15	16QAM	38	0	20.97	20.99	20.91		
15	16QAM	38	20	21.06	21.08	21.08		
15	16QAM	38	39	20.91	20.97	20.89	22	2
15	16QAM	75	0	20.97	21.03	20.89		
15	64QAM	1	0	21.10	21.05	21.06		
15	64QAM	1	37	21.40	21.46	21.39	22	2
15	64QAM	1	74	21.08	21.05	21.04		
15	64QAM	38	0	19.96	20.06	20.06		
15	64QAM	38	20	19.99	20.09	20.05	21	3
15	64QAM	38	39	19.86	19.97	19.84		
15	64QAM	75	0	19.86	19.84	19.79		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.81	22.79	22.76	24	0
10	QPSK	1	25	22.48	22.48	22.44		
10	QPSK	1	49	22.92	22.76	22.85		
10	QPSK	25	0	21.77	21.85	21.75	23	1
10	QPSK	25	12	21.96	22.01	21.78		
10	QPSK	25	25	21.95	21.97	21.78		
10	QPSK	50	0	21.85	21.93	21.88	23	1
10	16QAM	1	0	22.21	22.21	22.18		
10	16QAM	1	25	22.36	22.45	22.38		
10	16QAM	1	49	22.20	22.21	22.14	22	2
10	16QAM	25	0	20.88	20.88	20.81		
10	16QAM	25	12	20.97	20.99	20.97		
10	16QAM	25	25	20.79	20.83	20.85	21	3
10	16QAM	50	0	20.85	20.95	20.85		
10	64QAM	1	0	21.01	20.92	20.94		
10	64QAM	1	25	21.38	21.32	21.24	22	2
10	64QAM	1	49	21.08	21.01	20.91		
10	64QAM	25	0	19.95	19.95	19.91		
10	64QAM	25	12	19.86	19.94	19.86	21	3
10	64QAM	25	25	19.74	19.73	19.70		
10	64QAM	50	0	19.86	19.79	19.68		



Band 66_Ant 13

Channel	Frequency (MHz)	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	18.88	17.03	18.81	18	0
15	QPSK	1	74	19.22	17.05	18.11	18	0
15	QPSK	1	74	19.24	16.86	16.76	18	0
15	QPSK	36	0	17.06	17.09	17.03	18	0
15	QPSK	20	0	17.11	17.04	17.02	18	0
15	QPSK	36	39	17.03	17.08	17.01	18	0
15	QPSK	75	0	16.89	17.05	17.01	18	0
15	16QAM	1	0	17.04	17.04	16.89	18	0
15	16QAM	1	37	16.98	17.00	16.90	18	0
15	16QAM	1	74	16.99	17.07	17.10	18	0
15	16QAM	1	49	17.06	17.04	17.05	18	0
15	16QAM	36	20	17.00	17.10	17.09	18	0
15	16QAM	36	39	17.01	17.12	17.07	18	0
15	16QAM	75	0	17.00	17.10	17.02	18	0
15	64QAM	1	0	17.03	17.07	17.07	18	0
15	64QAM	1	37	16.98	17.07	17.07	18	0
15	64QAM	74	0	17.04	17.04	17.01	18	0
15	64QAM	36	0	17.01	17.03	17.08	18	0
15	64QAM	36	20	17.00	17.08	17.07	18	0
15	64QAM	36	39	17.06	17.03	17.01	18	0
15	64QAM	75	0	17.06	17.01	16.99	18	0
10	QPSK	1	0	17.04	17.09	16.79	18	0
10	QPSK	1	25	17.02	17.10	17.05	18	0
10	QPSK	1	49	16.93	16.89	16.73	18	0
10	QPSK	25	0	17.01	17.09	16.99	18	0
10	QPSK	25	12	17.03	17.12	17.05	18	0
10	QPSK	25	25	17.04	17.08	17.04	18	0
10	QPSK	50	0	17.00	17.08	17.08	18	0
10	16QAM	1	0	16.99	17.08	17.02	18	0
10	16QAM	1	25	17.02	17.07	16.96	18	0
10	16QAM	1	49	16.94	17.09	17.10	18	0
10	16QAM	25	0	17.00	17.04	17.08	18	0
10	16QAM	25	12	17.05	17.06	17.04	18	0
10	16QAM	25	25	17.07	17.04	17.02	18	0
10	16QAM	50	0	16.96	17.01	17.03	18	0
10	64QAM	1	0	17.02	17.09	17.10	18	0
10	64QAM	1	25	16.96	17.05	17.08	18	0
10	64QAM	1	49	16.95	17.09	17.02	18	0
10	64QAM	25	0	16.98	17.00	17.06	18	0
10	64QAM	25	12	17.03	17.07	17.03	18	0
10	64QAM	25	25	17.02	17.01	17.04	18	0
10	64QAM	50	0	17.03	17.03	17.02	18	0
5	QPSK	1	0	17.01	17.08	16.84	18	0
5	QPSK	1	12	17.11	17.12	17.12	18	0
5	QPSK	1	24	16.83	16.86	16.74	18	0
5	QPSK	12	0	17.02	17.08	16.98	18	0
5	QPSK	12	7	17.02	17.12	17.08	18	0
5	QPSK	12	13	17.03	17.04	17.05	18	0
5	QPSK	25	0	16.99	17.03	17.10	18	0
5	16QAM	1	0	17.03	17.05	17.01	18	0
5	16QAM	1	12	17.01	16.99	16.99	18	0
5	16QAM	1	24	16.99	17.09	17.01	18	0
5	16QAM	12	0	17.01	17.13	17.10	18	0
5	16QAM	12	7	17.05	17.08	17.03	18	0
5	16QAM	12	13	17.05	17.08	17.05	18	0
5	16QAM	25	0	17.06	17.10	17.02	18	0
5	64QAM	1	0	17.05	17.04	17.02	18	0
5	64QAM	1	12	17.05	17.02	17.03	18	0
5	64QAM	1	24	17.01	17.04	17.11	18	0
5	64QAM	12	0	17.06	17.02	17.07	18	0
5	64QAM	12	7	16.97	17.04	17.10	18	0
5	64QAM	12	13	17.06	17.05	17.01	18	0
5	64QAM	25	0	17.01	17.06	17.04	18	0
3	QPSK	1	0	17.02	17.07	16.83	18	0
3	QPSK	1	8	17.02	17.09	17.13	18	0
3	QPSK	1	14	16.76	16.83	16.73	18	0
3	QPSK	8	0	17.04	17.00	16.97	18	0
3	QPSK	8	4	17.06	17.10	17.08	18	0
3	QPSK	8	7	17.00	17.02	17.04	18	0
3	QPSK	15	0	16.97	17.02	17.05	18	0
3	16QAM	1	0	17.00	17.07	17.01	18	0
3	16QAM	1	8	16.97	17.03	17.06	18	0
3	16QAM	1	14	16.97	17.10	17.06	18	0
3	16QAM	8	0	17.08	17.05	17.07	18	0
3	16QAM	8	4	17.06	17.06	17.00	18	0
3	16QAM	8	7	17.07	17.06	17.07	18	0
3	16QAM	15	0	17.02	17.08	17.00	18	0
3	64QAM	1	0	17.08	17.08	17.03	18	0
3	64QAM	1	8	17.05	17.06	17.05	18	0
3	64QAM	1	14	16.98	17.01	17.02	18	0
3	64QAM	8	0	17.03	17.01	17.02	18	0
3	64QAM	8	4	16.97	17.02	17.03	18	0
3	64QAM	8	7	17.04	17.04	17.01	18	0
3	64QAM	15	0	17.00	17.03	17.03	18	0
1.4	QPSK	1	0	17.07	17.05	17.03	18	0
1.4	QPSK	1	3	17.04	17.08	16.89	18	0
1.4	QPSK	1	5	16.76	16.85	16.77	18	0
1.4	QPSK	3	0	17.04	17.06	17.03	18	0
1.4	QPSK	3	1	17.05	17.03	17.03	18	0
1.4	QPSK	3	3	17.04	17.09	17.07	18	0
1.4	QPSK	15	0	17.02	17.05	17.03	18	0
1.4	16QAM	1	0	17.03	17.02	17.04	18	0
1.4	16QAM	1	3	17.03	16.99	16.96	18	0
1.4	16QAM	1	5	17.03	17.05	17.05	18	0
1.4	16QAM	3	0	17.08	17.11	17.08	18	0
1.4	16QAM	3	1	17.00	17.05	17.05	18	0
1.4	16QAM	3	3	16.99	17.10	17.03	18	0
1.4	16QAM	6	0	17.02	17.10	17.01	18	0
1.4	64QAM	1	0	17.00	17.04	17.03	18	0
1.4	64QAM	1	3	17.06	17.12	17.09	18	0
1.4	64QAM	1	5	16.97	17.03	17.07	18	0
1.4	64QAM	3	0	17.01	16.99	17.11	18	0
1.4	64QAM	3	1	16.97	17.10	17.03	18	0
1.4	64QAM	3	3	17.03	17.03	17.11	18	0
1.4	64QAM	6	0	17.02	17.04	16.97	18	0

Band 66_Ant 31

Channel	Frequency (MHz)	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	0	19.51	19.55	19.53	20.5	0
20	QPSK	1	49	19.41	19.66	19.71	20.5	0
20	QPSK	1	99	19.50	19.37	19.40	20.5	0
20	QPSK	50	0	19.50	19.68	19.71	20.5	0
20	QPSK	50	24	19.41	19.34	19.34	20.5	0
20	QPSK	50	50	19.67	19.69	19.70	20.5	0
20	16QAM	1	0	19.70	19.73	19.72	20.5	0
20	16QAM	1	49	19.70	19.72	19.74	20.5	0
20	16QAM	1	99	19.77	19.70	19.73	20.5	0
20	16QAM	1	49	19.82	19.84	19.76	20.5	0
20	16QAM	50	0	19.70	19.72	19.68	20.5	0
20	16QAM	50	24	19.72	19.80	19.80	20.5	0
20	16QAM	50	50	19.67	19.69	19.67	20.5	0
20	64QAM	1	0	19.70	19.73	19.72	20.5	0
20	64QAM	1	49	19.74	19.88	19.82	20.5	0
20	64QAM	1	99	19.66	19.69	19.37	20.5	0
20	64QAM	50	0	19.67	19.66	19.78	20.5	0
20	64QAM	50	24	19.68	19.81	19.72	20.5	0
20	64QAM	50	50	19.80	19.70	19.68	20.5	0
20	64QAM	100	0	19.67	19.70	19.75	20.5	0
15	QPSK	1	0	19.44	19.46	19.48	18	0
15	QPSK	1	37	19.64	19.74	19.64	18	0
15	QPSK	1	74	19.46	19.25	19.34	18	0
15	QPSK	36	0	19.43	19.64	19.59	18	0
15	QPSK	36	20	19.62	19.76	19.68	18	0
15	QPSK	36	39	19.50	19.61	19.65	18	0
15	QPSK	75	0	19.63	19.69	19.64	18	0
15	16QAM	1	0	19.63	19.63	19.65	18	0
15	16QAM	1	37	19.60	19.67	19.63	18	0
15	16QAM	1	74	19.79	19.32	19.76	18	0
15	16QAM	36	20	19.63	19.63	19.58	18	0
15	16QAM	36	20	19.60	19.73	19.49	18	0



Band 38_Ant 13

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Contains multiple channel entries for frequencies 37850-38150.

Band 38_Ant 31

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Contains multiple channel entries for frequencies 37850-38150.



Band 41_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)												
20	QPSK	1	0	17.00	17.09	17.24	16.96	16.95	18	0		
20	QPSK	1	49	17.35	17.35	17.41	17.40	17.35				
20	QPSK	1	99	16.88	16.88	17.17	17.20	17.20				
20	QPSK	50	0	17.08	17.01	17.17	17.20	17.25				
20	QPSK	50	24	17.35	17.15	17.39	17.30	17.34				
20	QPSK	50	50	17.01	17.08	17.21	17.13	17.17	18	0		
20	QPSK	100	0	17.13	17.08	17.35	17.28	17.19				
20	16QAM	1	0	17.24	17.11	17.37	17.20	17.10				
20	16QAM	1	49	17.16	17.07	17.35	17.30	17.30				
20	16QAM	1	99	17.24	17.19	17.23	17.31	17.18				
20	16QAM	50	0	17.11	17.20	17.31	17.34	17.15	18	0		
20	16QAM	50	24	17.19	17.08	17.33	17.22	17.33				
20	16QAM	50	50	17.16	17.16	17.26	17.28	17.12				
20	16QAM	100	0	17.18	17.14	17.34	17.33	17.12				
20	16QAM	100	0	17.19	17.08	17.29	17.25	17.17				
20	84QAM	1	49	17.22	17.14	17.30	17.34	17.13	18	0		
20	84QAM	1	99	17.19	17.18	17.34	17.27	17.13				
20	84QAM	50	0	16.97	17.08	17.15	17.04	17.20				
20	84QAM	50	24	17.06	17.12	17.30	17.28	17.22				
20	84QAM	50	50	17.25	17.18	17.30	17.24	17.11				
20	84QAM	100	0	17.19	17.08	17.24	17.00	17.19	18	0		
Channel												
Frequency (MHz)												
15	QPSK	1	0	16.85	17.07	17.16	16.91	16.84			18.00	0
15	QPSK	1	37	17.31	17.18	17.31	17.33	17.23				
15	QPSK	1	74	16.84	16.87	17.14	17.11	17.10				
15	QPSK	36	0	16.86	16.92	17.10	17.08	17.21				
15	QPSK	36	20	17.23	17.00	17.34	17.28	17.23				
15	QPSK	36	39	16.86	16.86	17.16	17.11	17.12	18	0		
15	QPSK	75	0	17.04	17.04	17.32	17.22	17.12				
15	16QAM	1	0	17.12	17.03	17.33	17.10	17.07				
15	16QAM	1	37	17.08	17.04	17.33	17.25	17.04				
15	16QAM	1	74	17.13	17.13	17.21	17.28	17.16				
15	16QAM	36	0	17.05	17.13	17.20	17.31	17.03	18	0		
15	16QAM	36	20	17.03	16.98	17.24	17.21	17.14				
15	16QAM	36	39	17.07	17.07	17.14	17.19	17.08				
15	16QAM	75	0	17.13	17.05	17.27	17.29	17.00				
15	84QAM	1	0	17.07	16.96	17.23	17.19	17.11				
15	84QAM	1	37	17.11	17.12	17.26	17.22	17.03	18	0		
15	84QAM	1	74	17.16	17.12	17.23	17.25	17.10				
15	84QAM	36	0	16.89	17.06	17.09	17.02	17.15				
15	84QAM	36	20	17.03	17.05	17.28	17.17	17.14				
15	84QAM	36	39	17.17	17.07	17.23	17.13	17.02				
15	84QAM	75	0	17.17	17.01	17.15	16.95	17.07	18	0		
Channel												
Frequency (MHz)												
10	QPSK	1	0	16.85	17.00	17.21	16.94	16.90			18.00	0
10	QPSK	1	25	17.24	17.16	17.35	17.37	17.23				
10	QPSK	1	49	16.88	16.85	17.06	17.14	17.04				
10	QPSK	25	0	16.87	16.98	17.08	17.12	17.23				
10	QPSK	25	12	17.33	17.04	17.34	17.18	17.28				
10	QPSK	25	25	16.86	16.88	17.14	17.05	17.05	18	0		
10	QPSK	50	0	17.08	17.02	17.31	17.14	17.14				
10	16QAM	1	0	17.14	17.03	17.34	17.12	17.01				
10	16QAM	1	25	17.05	17.02	17.30	17.25	17.01				
10	16QAM	1	49	17.18	17.08	17.12	17.19	17.13				
10	16QAM	25	0	17.07	17.08	17.24	17.29	17.07	18	0		
10	16QAM	25	12	17.13	16.98	17.24	17.25	17.08				
10	16QAM	25	25	17.12	17.11	17.15	17.24	17.08				
10	16QAM	50	0	17.08	17.04	17.30	17.23	17.03				
10	16QAM	50	0	17.14	17.03	17.17	17.23	17.10				
10	84QAM	1	0	17.20	17.08	17.28	17.31	17.04	18	0		
10	84QAM	1	49	17.08	17.07	17.28	17.19	17.05				
10	84QAM	25	0	16.91	17.05	17.05	16.98	17.10				
10	84QAM	25	12	16.98	17.02	17.15	17.17	17.20				
10	84QAM	25	25	17.18	17.15	17.26	17.16	17.03				
10	84QAM	50	0	17.07	17.00	17.19	16.90	17.13	18	0		
Channel												
Frequency (MHz)												
5	QPSK	1	0	16.85	16.98	17.16	16.92	16.85			18.00	0
5	QPSK	1	12	17.29	17.09	17.34	17.38	17.21				
5	QPSK	1	24	16.80	16.93	17.13	17.19	17.12				
5	QPSK	12	0	17.06	16.94	17.09	17.15	17.22				
5	QPSK	12	7	17.32	16.96	17.28	17.22	17.28				
5	QPSK	12	13	16.95	16.99	17.15	17.04	17.08	18	0		
5	QPSK	25	0	17.11	16.97	17.33	17.20	17.13				
5	16QAM	1	0	17.17	17.08	17.33	17.11	17.07				
5	16QAM	1	12	17.07	17.05	17.33	17.25	17.01				
5	16QAM	1	24	17.17	17.04	17.14	17.22	17.11				
5	16QAM	12	0	17.02	17.12	17.24	17.32	17.07	18	0		
5	16QAM	12	7	17.10	16.94	17.27	17.17	17.03				
5	16QAM	12	13	17.04	17.13	17.20	17.27	17.10				
5	16QAM	25	0	17.16	17.07	17.23	17.21	17.01				
5	84QAM	1	0	17.09	16.97	17.20	17.23	17.14				
5	84QAM	1	12	17.18	17.11	17.27	17.24	17.08	18	0		
5	84QAM	1	24	17.10	17.13	17.26	17.21	17.08				
5	84QAM	12	0	16.88	16.96	17.05	17.00	17.13				
5	84QAM	12	7	17.03	17.03	17.18	17.19	17.13				
5	84QAM	12	13	17.13	17.14	17.21	17.12	17.04				
5	84QAM	25	0	17.11	17.00	17.20	16.89	17.15	18	0		

Band 41_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.33	23.25	23.31	23.25	23.35	24	0		
20	QPSK	1	49	23.45	23.45	23.56	23.56	23.49				
20	QPSK	1	99	23.34	23.34	23.34	23.32	23.47				
20	QPSK	50	0	22.85	22.92	22.92	22.93	23.00				
20	QPSK	50	24	23.05	23.08	23.10	23.07	23.04				
20	QPSK	50	50	22.98	23.05	23.05	22.98	22.81	23.5	0.5		
20	QPSK	100	0	22.80	22.92	22.92	22.97	22.88				
20	16QAM	1	0	22.95	23.06	23.08	22.93	23.00				
20	16QAM	1	49	23.21	23.36	23.23	23.35	23.21				
20	16QAM	1	99	23.03	23.17	23.08	23.06	22.98				
20	16QAM	50	0	21.89	21.98	22.03	21.94	22.05	23.5	0.5		
20	16QAM	50	24	22.04	22.02	22.10	22.12	22.07				
20	16QAM	50	50	22.15	22.95	22.04	22.07	21.90				
20	16QAM	100	0	21.96	22.07	22.07	22.02	21.90				
20	16QAM	100	0	21.86	21.96	21.95	21.94	21.84				
20	84QAM	1	49	22.11	22.23	22.17	22.13	22.15	22.5	1.5		
20	84QAM	1	99	21.98	22.06	22.02	21.98	21.92				
20	84QAM	50	0	20.87	20.97	21.02	20.92	21.02				
20	84QAM	50	24	21.02	21.16	21.12	21.18	21.04				
20	84QAM	50	50	21.04	21.12	21.08	21.10	20.95				
20	84QAM	100	0	21.07	21.07	21.07	21.01	21.02	21.5	2.5		
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.24	23.17	23.27	23.21	23.23			24.00	0
15	QPSK	1	37	23.33	23.38	23.44	23.28	23.38				
15	QPSK	1	74	23.27	23.33	23.31	23.30	23.35				
15	QPSK	36	0	22.86	22.92	22.85	22.87	22.89				
15	QPSK	36	20	23.02	23.07	23.09	23.04	23.02				
15	QPSK	36	39	22.96	22.96	22.96	23.02	23.04	23.5	0.5		
15	QPSK	75	0	22.86	22.92	22.94	22.99	22.85				
15	16QAM	1	0	23.03	23.05	23.00	22.95	22.94				
15	16QAM	1	37	23.12	23.13	23.16	23.10	23.15				
15	16QAM	1	74	23.08	23.09	23.03	23.04	22.99				
15	16QAM	36	0	21.96	22.00	22.00	22.00	21.92	22.5	1.5		
15	16QAM	36	20	22.02	21.96	22.05	22.07					



Reduced Power Mode for DSI6

<GSM>

GSM850_Ant 13	Burst Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	834.4	844.6	(dBm)	832.4	842.6	852.8	(dBm)
GSM 1 Tx slot	32.71	32.75	32.70	34.00	23.71	23.75	23.70	25.00
GPRS/EDGE(GMSK) 1 Tx slot	32.70	32.73	32.68	34.00	23.70	23.73	23.68	25.00
GPRS/EDGE(GMSK) 2 Tx slots	33.63	33.64	33.62	33.00	24.63	24.64	24.62	26.00
GPRS/EDGE(GMSK) 3 Tx slots	28.50	28.60	28.48	30.00	24.29	24.34	24.22	25.74
GPRS/EDGE(GMSK) 4 Tx slots	26.30	26.35	26.31	28.00	23.30	23.35	23.31	25.00
EDGE 1 Tx slot	26.85	26.88	26.85	29.00	17.89	17.88	17.85	19.00
EDGE 2 Tx slots	25.01	25.02	24.87	26.00	19.01	19.02	18.87	20.00
EDGE 3 Tx slots	22.75	22.89	22.77	24.00	16.49	16.63	16.51	18.74
EDGE 4 Tx slots	20.45	20.35	20.37	22.00	17.45	17.35	17.37	19.00

GSM1900_Ant 13	Burst Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit
	512	661	810		512	661	810	
TX Channel	512 <td>661 <td>810 <td>Limit</td> <td>512 <td>661 <td>810 <td>Limit</td> </td></td></td></td></td>	661 <td>810 <td>Limit</td> <td>512 <td>661 <td>810 <td>Limit</td> </td></td></td></td>	810 <td>Limit</td> <td>512 <td>661 <td>810 <td>Limit</td> </td></td></td>	Limit	512 <td>661 <td>810 <td>Limit</td> </td></td>	661 <td>810 <td>Limit</td> </td>	810 <td>Limit</td>	Limit
Frequency (MHz)	1850.2	1860	1909.8	(dBm)	1850.2	1860	1909.8	(dBm)
GSM 1 Tx slot	28.12	27.98	27.95	28.50	19.12	18.98	18.95	19.50
GPRS/EDGE(GMSK) 1 Tx slot	28.15	28.02	27.99	28.50	19.15	19.05	18.99	19.50
GPRS/EDGE(GMSK) 2 Tx slots	25.16	25.17	25.08	26.00	19.16	19.17	19.08	20.00
GPRS/EDGE(GMSK) 3 Tx slots	22.15	22.00	21.97	23.50	17.89	17.74	17.71	19.24
GPRS/EDGE(GMSK) 4 Tx slots	21.29	21.10	20.97	22.50	19.29	19.10	17.97	19.50
EDGE 1 Tx slot	28.18	28.20	26.10	27.00	17.18	17.20	17.10	18.00
EDGE 2 Tx slots	24.44	24.41	24.38	25.00	16.44	16.41	16.38	19.00
EDGE 3 Tx slots	22.77	22.61	22.47	23.50	19.51	19.35	19.21	19.24
EDGE 4 Tx slots	20.69	20.57	20.50	21.50	17.69	17.67	17.50	18.50

<GSM>

GSM850_Ant 31	Burst Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	834.4	844.6	(dBm)	832.4	842.6	852.8	(dBm)
GSM 1 Tx slot	32.30	32.43	32.42	33.50	23.30	23.43	23.42	24.50
GPRS/EDGE(GMSK) 1 Tx slot	32.28	32.42	32.41	33.50	23.28	23.42	23.41	24.50
GPRS/EDGE(GMSK) 2 Tx slots	30.18	30.35	30.34	31.50	24.19	24.35	24.34	25.50
GPRS/EDGE(GMSK) 3 Tx slots	28.01	28.18	28.17	29.50	23.75	23.92	23.91	25.24
GPRS/EDGE(GMSK) 4 Tx slots	25.78	25.93	25.92	27.50	22.78	22.93	22.92	24.50
EDGE 1 Tx slot	26.37	26.62	26.61	27.50	17.37	17.62	17.61	19.50
EDGE 2 Tx slots	24.56	24.61	24.65	25.50	18.56	18.61	18.65	19.50
EDGE 3 Tx slots	22.28	22.34	22.51	23.50	18.02	18.08	18.25	19.24
EDGE 4 Tx slots	19.91	20.03	20.18	21.50	16.61	17.03	17.18	18.50

GSM1900_Ant 31	Burst Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit
	512	661	810		512	661	810	
TX Channel	512 <td>661 <td>810 <td>Limit</td> <td>512 <td>661 <td>810 <td>Limit</td> </td></td></td></td></td>	661 <td>810 <td>Limit</td> <td>512 <td>661 <td>810 <td>Limit</td> </td></td></td></td>	810 <td>Limit</td> <td>512 <td>661 <td>810 <td>Limit</td> </td></td></td>	Limit	512 <td>661 <td>810 <td>Limit</td> </td></td>	661 <td>810 <td>Limit</td> </td>	810 <td>Limit</td>	Limit
Frequency (MHz)	1850.2	1860	1909.8	(dBm)	1850.2	1860	1909.8	(dBm)
GSM 1 Tx slot	28.89	28.50	29.01	29.50	19.89	19.50	20.01	20.50
GPRS/EDGE(GMSK) 1 Tx slot	28.92	28.85	29.03	29.50	19.92	19.95	20.03	20.50
GPRS/EDGE(GMSK) 2 Tx slots	25.78	25.81	25.94	26.50	19.78	19.81	19.94	20.50
GPRS/EDGE(GMSK) 3 Tx slots	22.82	22.84	22.88	24.00	18.56	18.58	18.72	19.74
GPRS/EDGE(GMSK) 4 Tx slots	21.31	21.30	21.43	23.00	18.31	18.30	18.43	20.00
EDGE 1 Tx slot	25.88	26.07	26.24	27.00	16.88	17.07	17.24	18.00
EDGE 2 Tx slots	24.37	24.46	24.58	25.00	16.37	16.46	16.58	19.00
EDGE 3 Tx slots	22.55	22.64	22.69	23.50	18.29	18.38	18.43	19.24
EDGE 4 Tx slots	20.55	20.62	20.61	21.50	17.55	17.62	17.61	18.50

<WCDMA>

Band	WCDMA II_Ant 13	WCDMA II_Ant 13			WCDMA IV_Ant 13			WCDMA V_Ant 13					
		5262	9400	9538	1312	1413	1513	4132	4182	4233			
TX Channel	5262	9400	9538	Limit	1312	1413	1513	Limit	4132	4182	4233		
Frequency (MHz)	1852.4	1860	1907.6	(dBm)	1712.4	1732.6	1752.6	(dBm)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2kops	18.03	18.06	18.09	19.00	18.84	18.94	18.91	20.00	23.23	23.30	23.28	24.50
3GPP Rel 99	RM12 2kops	18.07	18.11	18.10	19.00	18.92	18.97	18.93	20.00	23.25	23.32	23.30	24.50
3GPP Rel 6	HSDPA Subtest-1	17.41	17.12	17.24	18.00	17.91	17.93	17.91	19.00	22.37	22.39	22.47	23.50
3GPP Rel 6	HSDPA Subtest-2	17.04	17.02	17.19	18.00	18.06	17.91	17.92	19.00	22.40	22.42	22.25	23.50
3GPP Rel 6	HSDPA Subtest-3	16.58	16.58	16.57	17.50	17.43	17.35	17.45	18.50	21.85	21.98	21.72	23.00
3GPP Rel 6	HSDPA Subtest-4	16.66	16.49	16.51	17.50	17.51	17.30	17.54	18.50	21.91	21.93	21.70	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	17.13	17.00	17.17	18.00	17.86	17.98	17.83	19.00	22.30	22.35	22.41	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	17.05	17.07	17.15	18.00	17.93	17.96	17.84	19.00	22.36	22.40	22.29	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	16.58	16.52	16.60	17.50	17.44	17.26	17.39	18.50	21.68	21.64	21.69	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	16.59	16.48	16.64	17.50	17.51	17.33	17.41	18.50	21.85	21.88	21.67	23.00
3GPP Rel 6	HSUPA Subtest-1	15.25	15.11	15.13	16.00	15.92	16.00	15.94	17.00	21.90	21.46	21.46	22.50
3GPP Rel 6	HSUPA Subtest-2	15.18	15.22	15.13	16.00	15.96	15.88	15.89	17.00	21.37	21.42	21.41	22.50
3GPP Rel 6	HSUPA Subtest-3	16.18	16.12	16.23	17.00	16.90	16.98	16.90	18.00	22.38	22.35	22.40	23.50
3GPP Rel 6	HSUPA Subtest-4	14.58	14.60	14.60	15.50	15.49	15.54	15.46	16.50	20.83	20.85	20.90	22.00
3GPP Rel 6	HSUPA Subtest-5	16.08	16.11	16.13	17.00	16.90	16.93	16.89	18.00	22.27	22.27	22.30	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.15	15.22	15.14	16.00	15.98	15.97	16.05	17.00	21.35	21.44	21.40	22.50

Band	WCDMA II_Ant 31	WCDMA II_Ant 31			WCDMA IV_Ant 31			WCDMA V_Ant 31					
		5262	9400	9538	1312	1413	1513	4132	4182	4233			
TX Channel	5262	9400	9538	Limit	1312	1413	1513	Limit	4132	4182	4233		
Frequency (MHz)	1852.4	1860	1907.6	(dBm)	1712.4	1732.6	1752.6	(dBm)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2kops	20.26	20.26	20.22	21.00	19.53	19.60	19.62	20.50	23.22	23.24	23.20	24.00
3GPP Rel 99	RM12 2kops	20.27	20.30	20.27	21.00	19.56	19.65	19.63	20.50	23.25	23.28	23.23	24.00
3GPP Rel 6	HSDPA Subtest-1	19.32	19.25	19.47	20.00	18.49	18.49	18.60	19.50	22.23	22.25	22.30	23.00
3GPP Rel 6	HSDPA Subtest-2	18.17	19.08	19.13	20.00	18.42	18.57	18.59	19.50	22.15	22.13	22.11	23.00
3GPP Rel 6	HSDPA Subtest-3	18.80	18.70	18.84	19.50	17.89	18.02	18.16	19.00	21.66	21.78	21.69	22.50
3GPP Rel 6	HSDPA Subtest-4	18.69	18.60	18.73	19.50	17.97	18.05	18.17	19.00	21.66	21.62	21.67	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	18.25	19.18	19.38	20.00	18.48	18.61	18.56	19.50	22.19	22.23	22.27	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	18.11	18.06	18.16	20.00	18.29	18.47	18.58	19.50	22.11	22.08	22.07	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.71	18.68	18.74	19.50	17.90	18.02	18.08	19.00	21.61	21.73	21.67	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	18.60	18.62	18.75	19.50	17.93	18.01	18.11	19.00	21.62	21.67	21.63	22.50
3GPP Rel 6	HSUPA Subtest-1	17.41	17.28	17.50	18.20	16.63	16.71	16.63	17.50	21.17	20.88	21.00	22.50
3GPP Rel 6	HSUPA Subtest-2	17.25	17.24	17.47	18.20	16.59	16.63	16.63	17.50	21.00	21.07	21.00	22.50
3GPP Rel 6	HSUPA Subtest-3	18.30	18.30	18.52	19.00	17.55	17.70	17.68	18.50	21.94	22.00	21.92	23.00
3GPP Rel 6	HSUPA Subtest-4	16.69	16.75	17.01	17.50	16.02	16.08	16.07	17.00	20.43	20.49	20.45	21.50
3GPP Rel 6	HSUPA Subtest-5	15.25	15.18	15.32	16.00	15.92	15.92	15.92	16.50	21.90	21.90	21.90	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.30	17.30	17.41	18.20	16.62	16.68	16.72	17.70	21.14	21.04	21.05	22.50



Band 2_Ant 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 Frequency (MHz)								
20	QPSK	1	0	17.92	17.92	17.99	19.1	0
20	QPSK	1	49	17.92	18.12	18.29	19.1	0
20	QPSK	1	99	17.77	17.9	17.72	19.1	0
20	QPSK	50	0	17.82	17.9	17.81	19.1	0
20	QPSK	50	24	17.85	18.1	17.91	19.1	0
20	QPSK	50	50	17.7	17.83	17.74	19.1	0
20	QPSK	100	0	17.95	18.03	17.87	19.1	0
20	16QAM	1	0	17.81	17.81	17.97	19.1	0
20	16QAM	1	49	18.09	18.11	18.09	19.1	0
20	16QAM	1	99	17.88	18.01	17.95	19.1	0
20	16QAM	50	0	17.97	17.89	17.71	19.1	0
20	16QAM	50	24	17.81	17.9	17.89	19.1	0
20	16QAM	50	50	17.99	17.77	17.82	19.1	0
20	16QAM	100	0	17.75	17.88	17.8	19.1	0
20	64QAM	1	0	18.05	18.05	18.1	19.1	0
20	64QAM	1	49	18.06	18.02	18.08	19.1	0
20	64QAM	1	99	17.92	17.89	17.82	19.1	0
20	64QAM	50	0	17.99	17.95	17.89	19.1	0
20	64QAM	50	24	17.91	18.05	17.91	19.1	0
20	64QAM	50	50	17.82	17.79	17.8	19.1	0
20	64QAM	100	0	17.71	17.83	17.82	19.1	0
Channel Frequency (MHz)								
15	QPSK	1	0	17.82	17.84	17.79	19.1	0
15	QPSK	1	49	17.67	17.86	17.86	19.1	0
15	QPSK	1	74	17.66	17.8	17.65	19.1	0
15	QPSK	36	0	17.80	17.87	17.74	19.1	0
15	QPSK	36	24	17.81	18.04	17.89	19.1	0
15	QPSK	36	39	17.60	17.75	17.65	19.1	0
15	QPSK	75	0	17.89	17.88	17.81	19.1	0
15	16QAM	1	0	17.72	17.77	17.73	19.1	0
15	16QAM	1	37	18.01	18.07	17.98	19.1	0
15	16QAM	1	74	17.81	17.88	17.78	19.1	0
15	16QAM	36	0	17.87	17.80	17.82	19.1	0
15	16QAM	36	20	17.74	17.85	17.80	19.1	0
15	16QAM	36	39	17.62	17.75	17.57	19.1	0
15	16QAM	75	0	17.63	17.62	17.69	19.1	0
15	64QAM	1	0	17.93	17.94	18.08	19.1	0
15	64QAM	1	37	18.04	17.93	17.99	19.1	0
15	64QAM	1	74	17.83	17.83	17.83	19.1	0
15	64QAM	36	0	17.88	17.92	17.80	19.1	0
15	64QAM	36	20	17.82	18.01	17.86	19.1	0
15	64QAM	36	39	17.78	17.77	17.73	19.1	0
15	64QAM	75	0	17.61	17.74	17.76	19.1	0
Channel Frequency (MHz)								
10	QPSK	1	0	17.86	17.89	17.81	19.1	0
10	QPSK	1	25	17.95	18.10	17.94	19.1	0
10	QPSK	1	49	17.70	17.88	17.69	19.1	0
10	QPSK	25	0	17.77	17.88	17.69	19.1	0
10	QPSK	25	12	17.88	18.00	17.96	19.1	0
10	QPSK	25	25	17.68	17.74	17.70	19.1	0
10	QPSK	50	0	17.88	17.92	17.81	19.1	0
10	16QAM	1	0	17.77	17.78	17.80	19.1	0
10	16QAM	1	25	18.07	17.99	17.99	19.1	0
10	16QAM	1	49	17.76	17.85	17.79	19.1	0
10	16QAM	25	0	17.90	17.80	17.81	19.1	0
10	16QAM	25	12	17.72	17.85	17.69	19.1	0
10	16QAM	25	25	17.66	17.67	17.59	19.1	0
10	16QAM	50	0	17.65	17.76	17.76	19.1	0
10	64QAM	1	0	17.85	17.83	18.01	19.1	0
10	64QAM	1	25	17.96	17.99	17.90	19.1	0
10	64QAM	1	49	17.67	17.84	17.71	19.1	0
10	64QAM	25	0	17.87	17.85	17.78	19.1	0
10	64QAM	25	12	17.85	18.01	17.81	19.1	0
10	64QAM	25	25	17.76	17.68	17.68	19.1	0
10	64QAM	50	0	17.63	17.78	17.72	19.1	0
Channel Frequency (MHz)								
5	QPSK	1	0	17.81	17.81	17.81	19.1	0
5	QPSK	1	12	17.93	18.05	17.98	19.1	0
5	QPSK	1	24	17.70	17.87	17.64	19.1	0
5	QPSK	12	0	17.73	17.80	17.71	19.1	0
5	QPSK	12	7	17.91	18.02	17.94	19.1	0
5	QPSK	12	13	17.65	17.73	17.68	19.1	0
5	QPSK	25	0	17.88	17.93	17.83	19.1	0
5	16QAM	1	0	17.70	17.78	17.84	19.1	0
5	16QAM	1	12	18.04	18.08	18.01	19.1	0
5	16QAM	1	24	17.86	17.92	17.86	19.1	0
5	16QAM	12	0	17.88	17.80	17.83	19.1	0
5	16QAM	12	7	17.71	17.80	17.84	19.1	0
5	16QAM	12	13	17.66	17.66	17.50	19.1	0
5	16QAM	25	0	17.73	17.78	17.68	19.1	0
5	64QAM	1	0	17.98	18.02	18.04	19.1	0
5	64QAM	1	12	18.02	17.99	17.88	19.1	0
5	64QAM	1	24	17.83	17.84	17.77	19.1	0
5	64QAM	12	0	17.98	17.82	17.80	19.1	0
5	64QAM	12	7	17.84	18.04	17.88	19.1	0
5	64QAM	12	13	17.80	17.77	17.72	19.1	0
5	64QAM	25	0	17.68	17.74	17.77	19.1	0
Channel Frequency (MHz)								
3	QPSK	1	0	17.90	17.89	17.82	19.1	0
3	QPSK	1	8	17.93	18.08	17.92	19.1	0
3	QPSK	1	16	17.67	17.85	17.70	19.1	0
3	QPSK	8	0	17.72	17.85	17.78	19.1	0
3	QPSK	8	4	17.93	18.03	17.91	19.1	0
3	QPSK	8	7	17.68	17.81	17.88	19.1	0
3	16QAM	1	0	17.98	17.84	17.85	19.1	0
3	16QAM	1	8	17.79	17.75	17.85	19.1	0
3	16QAM	1	16	17.98	18.02	17.97	19.1	0
3	16QAM	8	0	17.95	17.78	17.67	19.1	0
3	16QAM	8	4	17.78	17.81	17.79	19.1	0
3	16QAM	8	7	17.67	17.74	17.51	19.1	0
3	16QAM	15	0	17.69	17.78	17.75	19.1	0
3	64QAM	1	0	17.98	18.01	17.98	19.1	0
3	64QAM	1	8	17.99	17.90	17.98	19.1	0
3	64QAM	1	14	17.81	17.94	17.75	19.1	0
3	64QAM	8	0	17.88	17.88	17.85	19.1	0
3	64QAM	8	4	17.82	17.98	17.82	19.1	0
3	64QAM	8	7	17.73	17.71	17.71	19.1	0
3	64QAM	15	0	17.60	17.65	17.75	19.1	0
Channel Frequency (MHz)								
1.4	QPSK	1	0	17.81	17.82	17.87	19.1	0
1.4	QPSK	1	3	17.98	18.00	17.98	19.1	0
1.4	QPSK	1	5	17.70	17.78	17.89	19.1	0
1.4	QPSK	3	0	17.71	17.79	17.70	19.1	0
1.4	QPSK	3	1	17.88	18.00	17.95	19.1	0
1.4	QPSK	3	3	17.62	17.77	17.89	19.1	0
1.4	QPSK	6	0	17.65	17.68	17.79	19.1	0
1.4	16QAM	1	0	17.71	17.77	17.81	19.1	0
1.4	16QAM	1	3	18.06	18.05	18.03	19.1	0
1.4	16QAM	1	5	17.81	17.80	17.85	19.1	0
1.4	16QAM	3	0	17.87	17.77	17.81	19.1	0
1.4	16QAM	3	1	17.72	17.80	17.77	19.1	0
1.4	16QAM	3	3	17.61	17.69	17.58	19.1	0
1.4	16QAM	6	0	17.66	17.86	17.73	19.1	0
1.4	64QAM	1	0	17.99	18.00	17.98	19.1	0
1.4	64QAM	1	3	17.96	17.96	18.03	19.1	0
1.4	64QAM	1	5	17.82	17.89	17.79	19.1	0
1.4	64QAM	3	0	17.95	17.92	17.78	19.1	0
1.4	64QAM	3	1	17.85	18.02	17.81	19.1	0
1.4	64QAM	3	3	17.70	17.69	17.75	19.1	0
1.4	64QAM	6	0	17.68	17.81	17.77	19.1	0

Band 2_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)								
20	QPSK	1	0	18.00	18.00	18.00	21	0
20	QPSK	1	49	20.02	20.11	20.02	21	0
20	QPSK	1	99	20.12	20.17	20.04	21	0
20	QPSK	50	0	20.3	20.34	20.31	21	0
20	QPSK	50	24	20.38	20.38	20.38	21	0
20	QPSK	50	50	20.32	20.19	20.27	21	0
20	QPSK	100	0	20.21	20.32	20.29	21	0
20	16QAM	1	0	20.35	20.4	20.42</		



Band 4_Ant 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								
Frequency (MHz)								
20	QPSK	1	0	18.71	18.79	18.75	20	0
15	QPSK	1	49	18.71	18.63	18.77	20	0
20	QPSK	1	99	18.79	18.69	18.84	20	0
20	QPSK	50	0	18.87	18.86	18.87	20	0
24	QPSK	24	0	18.78	18.63	18.93	20	0
20	QPSK	50	50	19.05	18.88	18.91	20	0
20	QPSK	100	0	19.05	19.05	18.81	20	0
20	16QAM	1	0	19.05	19.04	19.07	20	0
20	16QAM	1	49	19.01	19.01	19.08	20	0
20	16QAM	1	99	19.06	19.06	19.07	20	0
20	16QAM	50	0	19.03	18.94	18.98	20	0
20	16QAM	50	24	18.97	19.01	18.92	20	0
20	16QAM	50	50	18.96	19.00	18.81	20	0
20	16QAM	100	0	18.77	18.91	18.96	20	0
20	64QAM	1	0	19.08	19.07	19.05	20	0
20	64QAM	1	49	19.08	19.01	19.08	20	0
20	64QAM	1	99	19.01	19.08	19.03	20	0
20	64QAM	50	0	19.04	18.90	18.99	20	0
20	64QAM	50	24	18.98	19.03	18.92	20	0
20	64QAM	50	50	18.98	19.01	18.82	20	0
20	64QAM	100	0	19.00	18.98	18.97	20	0
Channel								
Frequency (MHz)								
15	QPSK	1	0	18.59	18.72	18.71	20	0
15	QPSK	1	37	18.68	18.64	18.87	20	0
15	QPSK	1	74	18.75	18.65	18.82	20	0
15	QPSK	36	0	18.84	18.79	18.88	20	0
15	QPSK	36	36	18.88	19.08	19.07	20	0
15	QPSK	36	39	19.03	18.94	18.87	20	0
15	QPSK	75	0	19.01	18.99	18.77	20	0
15	16QAM	1	0	19.01	18.93	19.04	20	0
15	16QAM	1	37	18.96	18.99	19.04	20	0
15	16QAM	1	74	19.04	19.06	18.98	20	0
15	16QAM	36	0	18.91	18.91	18.95	20	0
15	16QAM	36	20	18.86	18.96	18.89	20	0
15	16QAM	36	39	18.92	18.96	18.76	20	0
15	16QAM	75	0	18.95	18.87	18.92	20	0
15	64QAM	1	0	19.03	18.98	18.98	20	0
15	64QAM	1	37	18.96	18.95	18.99	20	0
15	64QAM	1	74	18.95	19.00	18.97	20	0
15	64QAM	36	0	18.97	18.87	18.95	20	0
15	64QAM	36	20	18.93	18.98	18.88	20	0
15	64QAM	36	39	18.92	18.99	18.80	20	0
15	64QAM	75	0	18.98	18.93	18.95	20	0
Channel								
Frequency (MHz)								
10	QPSK	1	0	18.67	18.69	18.68	20	0
10	QPSK	1	25	19.01	19.05	18.88	20	0
10	QPSK	1	49	19.12	18.63	18.55	20	0
10	QPSK	25	0	18.79	18.75	18.92	20	0
10	QPSK	25	12	18.88	18.97	18.93	20	0
10	QPSK	25	25	18.99	18.88	18.79	20	0
10	QPSK	50	0	18.93	19.04	18.71	20	0
10	16QAM	1	0	18.98	18.96	18.99	20	0
10	16QAM	1	25	19.03	18.97	19.05	20	0
10	16QAM	1	49	18.94	19.04	19.01	20	0
10	16QAM	25	0	18.97	18.82	18.93	20	0
10	16QAM	25	12	18.91	18.89	18.87	20	0
10	16QAM	25	25	18.95	18.96	18.70	20	0
10	16QAM	50	0	18.96	18.92	18.64	20	0
10	64QAM	1	0	18.99	19.02	18.96	20	0
10	64QAM	1	25	18.99	18.98	19.05	20	0
10	64QAM	1	49	18.97	18.87	18.91	20	0
10	64QAM	25	0	18.96	18.87	18.83	20	0
10	64QAM	25	12	18.92	18.94	18.83	20	0
10	64QAM	25	25	18.95	18.95	18.78	20	0
10	64QAM	50	0	18.91	18.94	18.85	20	0
Channel								
Frequency (MHz)								
5	QPSK	1	0	18.60	18.70	18.64	20	0
5	QPSK	1	12	18.96	18.98	18.83	20	0
5	QPSK	1	24	18.68	18.57	18.62	20	0
5	QPSK	12	0	18.81	18.75	18.82	20	0
5	QPSK	12	7	18.96	19.06	19.04	20	0
5	QPSK	12	13	19.00	18.65	18.78	20	0
5	QPSK	25	0	18.99	19.00	18.74	20	0
5	16QAM	1	0	19.02	18.98	19.01	20	0
5	16QAM	1	12	18.91	18.94	18.97	20	0
5	16QAM	1	24	18.98	19.00	18.96	20	0
5	16QAM	12	0	18.94	18.85	18.91	20	0
5	16QAM	12	7	18.98	18.97	18.83	20	0
5	16QAM	12	13	18.86	18.89	18.89	20	0
5	16QAM	25	0	18.73	18.89	18.84	20	0
5	64QAM	1	0	19.05	19.04	18.99	20	0
5	64QAM	1	12	19.05	18.97	19.02	20	0
5	64QAM	1	24	18.95	19.00	18.97	20	0
5	64QAM	12	0	18.98	18.80	18.91	20	0
5	64QAM	12	7	18.90	18.99	18.80	20	0
5	64QAM	12	13	18.92	18.95	18.80	20	0
5	64QAM	25	0	18.91	18.92	18.85	20	0
Channel								
Frequency (MHz)								
3	QPSK	1	0	18.60	18.70	18.64	20	0
3	QPSK	1	8	18.95	19.02	18.80	20	0
3	QPSK	1	16	18.67	18.59	18.55	20	0
3	QPSK	8	0	18.78	18.81	18.93	20	0
3	QPSK	8	4	18.98	18.97	19.02	20	0
3	QPSK	8	7	18.99	18.88	18.86	20	0
3	QPSK	15	0	19.03	18.98	18.70	20	0
3	16QAM	1	0	18.93	19.01	18.95	20	0
3	16QAM	1	8	18.95	18.89	19.00	20	0
3	16QAM	1	16	18.98	19.01	18.99	20	0
3	16QAM	8	0	19.00	18.92	18.96	20	0
3	16QAM	8	4	18.95	18.89	18.95	20	0
3	16QAM	8	7	18.90	18.89	18.79	20	0
3	16QAM	15	0	18.70	18.82	18.83	20	0
3	64QAM	1	0	19.04	19.01	19.03	20	0
3	64QAM	1	8	18.98	18.92	18.97	20	0
3	64QAM	1	14	18.91	19.03	18.99	20	0
3	64QAM	8	0	18.97	18.85	18.99	20	0
3	64QAM	8	4	18.90	19.03	18.93	20	0
3	64QAM	8	7	18.92	18.97	18.78	20	0
3	64QAM	15	0	18.95	18.89	18.93	20	0
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	17.07	17.23	17.24	20	0
1.4	QPSK	1	3	18.54	18.74	18.71	20	0
1.4	QPSK	1	5	18.99	19.03	18.85	20	0
1.4	QPSK	1	9	18.78	18.75	18.87	20	0
1.4	QPSK	3	0	19.04	19.02	19.04	20	0
1.4	QPSK	3	3	18.93	18.91	18.84	20	0
1.4	QPSK	3	6	19.03	18.98	18.78	20	0
1.4	16QAM	1	0	19.01	19.02	18.95	20	0
1.4	16QAM	1	3	18.98	18.97	19.01	20	0
1.4	16QAM	1	5	18.99	18.99	19.01	20	0
1.4	16QAM	3	0	18.91	18.83	18.89	20	0
1.4	16QAM	3	1	18.95	18.92	18.87	20	0
1.4	16QAM	3	3	18.95	18.97	18.74	20	0
1.4	16QAM	6	0	18.72	18.79	18.54	20	0
1.4	64QAM	1	0	19.08	19.05	19.02	20	0
1.4	64QAM	1	3	19.08	18.93	19.04	20	0
1.4	64QAM	1	5	18.96	19.06	18.99	20	0
1.4	64QAM	3	0	18.95	18.78	18.94	20	0
1.4	64QAM	3	1	18.96	18.95	18.90	20	0
1.4	64QAM	3	3	18.95	18.97	18.70	20	0
1.4	64QAM	6	0	18.98	18.89	18.87	20	0

Band 4_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.28	19.50	19.63	20.5	0
20	QPSK	1	49	19.28	19.77	19.77	20.5	0
20	QPSK	1	99	19.43	19.42	19.45	20.5	0
20	QPSK	50	0	19.67	19.69	19.64	20.5	0
20	QPSK	50	24	19.68	19.73	19.73	20.5	0
20	QPSK	50	50	19.63	19.64	19.69	20.5	0
20	QPSK	100	0	19.69	19.72	19.64	20.5	0
20	16QAM	1	0	19.69	19.73	19.69	20.5	0



Band 5_Ant 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								
Frequency (MHz)								
10	QPSK	1	0	23.08	23.19	23.03	24.5	0
10	QPSK	1	25	23.08	23.11	23.03		
10	QPSK	1	49	23.11	23.11	22.96		
10	QPSK	25	0	22.03	22.13	22.09	23.5	1
10	QPSK	25	12	22.03	22.04	22.04		
10	QPSK	25	25	22.02	22.10	22.03		
10	16QAM	50	0	22.15	22.20	22.18	23.5	1
10	16QAM	50	0	22.56	22.10	22.97		
10	16QAM	50	0	22.76	22.77	22.75		
10	16QAM	1	49	22.99	22.73	22.80	22.5	2
10	16QAM	25	0	21.07	21.07	20.95		
10	16QAM	25	12	21.29	21.31	21.31		
10	16QAM	25	25	20.93	21.04	20.98	22.5	2
10	16QAM	50	0	21.07	21.11	21.02		
10	16QAM	50	0	21.49	21.50	21.39		
10	64QAM	1	25	21.53	21.54	21.49	22.5	2
10	64QAM	1	49	21.40	21.46	21.45		
10	64QAM	25	0	20.18	20.19	20.16		
10	64QAM	25	12	20.22	20.27	20.20	21.5	3
10	64QAM	25	25	20.04	20.14	20.03		
10	64QAM	50	0	20.17	20.22	20.16		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.04	23.05	22.90	24.5	0
5	QPSK	1	12	23.17	23.08	22.95		
5	QPSK	1	24	23.02	23.06	22.91		
5	QPSK	12	0	21.99	22.07	21.98	23.5	1
5	QPSK	12	7	22.08	22.23	22.08		
5	QPSK	12	13	21.92	22.00	22.00		
5	QPSK	25	0	22.06	22.07	22.05	23.5	1
5	16QAM	1	12	22.50	22.61	22.50		
5	16QAM	1	12	22.74	22.73	22.75		
5	16QAM	1	24	22.57	22.58	22.48	22.5	2
5	16QAM	12	7	20.90	20.89	20.82		
5	16QAM	12	7	21.29	21.19	21.17		
5	16QAM	12	13	20.83	20.90	20.91	22.5	2
5	16QAM	25	0	20.95	20.98	20.95		
5	64QAM	1	0	21.47	21.47	21.29		
5	64QAM	1	12	21.52	21.52	21.46	22.5	2
5	64QAM	1	24	21.30	21.38	21.45		
5	64QAM	12	0	20.09	20.07	20.12		
5	64QAM	12	7	20.13	20.12	20.11	21.5	3
5	64QAM	12	13	19.94	20.03	19.99		
5	64QAM	25	0	20.08	20.13	20.11		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.93	23.05	22.90	24.5	0
3	QPSK	1	8	23.17	23.09	23.06		
3	QPSK	1	14	23.06	23.11	22.90		
3	QPSK	8	0	21.93	22.10	21.99	23.5	1
3	QPSK	8	4	22.17	22.16	22.14		
3	QPSK	8	7	21.91	22.09	21.90		
3	QPSK	15	0	22.06	22.18	22.14	23.5	1
3	16QAM	1	0	22.40	22.70	22.63		
3	16QAM	1	8	22.65	22.74	22.69		
3	16QAM	1	14	22.45	22.70	22.46	22.5	2
3	16QAM	8	0	21.00	21.00	20.93		
3	16QAM	8	4	21.28	21.54	21.21		
3	16QAM	8	7	20.87	21.01	20.84	22.5	2
3	16QAM	15	0	20.94	21.04	20.87		
3	16QAM	15	0	21.48	21.48	21.30		
3	64QAM	1	8	21.51	21.50	21.43	22.5	2
3	64QAM	1	14	21.32	21.33	21.32		
3	64QAM	8	0	20.06	20.10	20.04		
3	64QAM	8	4	20.07	20.15	20.17	21.5	3
3	64QAM	8	7	20.04	20.08	19.99		
3	64QAM	15	0	20.02	20.11	20.02		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.03	23.10	23.00	24.5	0
1.4	QPSK	1	3	23.20	23.09	23.02		
1.4	QPSK	1	5	23.05	23.07	22.98		
1.4	QPSK	3	0	23.08	23.08	22.89	23.5	1
1.4	QPSK	3	1	23.02	22.98	22.84		
1.4	QPSK	3	3	23.09	23.06	22.98		
1.4	QPSK	6	0	22.04	22.17	22.04	23.5	1
1.4	16QAM	1	0	22.43	22.68	22.62		
1.4	16QAM	1	3	22.67	22.66	22.74		
1.4	16QAM	1	5	22.57	22.62	22.45	22.5	2
1.4	16QAM	3	0	22.46	22.66	22.55		
1.4	16QAM	3	1	22.43	22.58	22.56		
1.4	16QAM	3	3	22.52	22.64	22.54	22.5	2
1.4	16QAM	6	0	21.07	21.00	20.99		
1.4	16QAM	6	0	21.47	21.35	21.31		
1.4	64QAM	1	3	21.47	21.44	21.43	22.5	2
1.4	64QAM	1	5	21.31	21.45	21.41		
1.4	64QAM	3	0	21.07	21.05	20.99		
1.4	64QAM	3	1	21.07	21.08	21.01	21.5	3
1.4	64QAM	3	3	21.05	20.99	21.02		
1.4	64QAM	15	0	20.15	20.15	20.14		

Band 5_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.93	22.78	22.92	24	0
10	QPSK	1	25	22.93	22.88	22.92		
10	QPSK	1	49	22.97	22.86	22.75		
10	QPSK	25	0	21.88	21.92	21.8	23	1
10	QPSK	25	12	21.88	21.88	21.88		
10	QPSK	25	25	22	21.84	21.66		
10	QPSK	50	0	22.01	22.08	21.95	23	1
10	16QAM	1	0	21.97	22.08	22.13		
10	16QAM	1	25	22.1	22.15	22.13		
10	16QAM	1	49	22.16	22.16	22.23	22	2
10	16QAM	25	0	21.05	21.04	20.88		
10	16QAM	25	12	20.96	21.03	20.98		
10	16QAM	25	25	20.8	20.9	20.68	22	2
10	16QAM	50	0	20.96	20.95	20.9		
10	64QAM	1	0	20.95	21.27	21.33		
10	64QAM	1	25	21.41	21.37	21.38	22	2
10	64QAM	1	49	20.93	20.95	20.94		
10	64QAM	25	0	19.96	20.02	19.94		
10	64QAM	25	12	20.1	20.12	20.03	21	3
10	64QAM	25	25	19.98	19.96	19.74		
10	64QAM	50	0	19.9	20.05	19.8		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.78	22.71	22.82	24	0
5	QPSK	1	12	22.86	22.81	22.81		
5	QPSK	1	24	22.94	22.80	22.75		
5	QPSK	12	0	21.81	21.88	21.77	23	1
5	QPSK	12	7	21.97	22.00	21.83		
5	QPSK	12	13	21.93	21.81	21.60		
5	QPSK	25	0	21.80	21.96	21.82	23	1
5	16QAM	1	12	22.05	22.05	22.05		
5	16QAM	1	12	22.01	22.08	22.08		
5	16QAM	1	24	22.03	21.98	22.06	22	2
5	16QAM	12	7	20.91	20.80	20.71		
5	16QAM	12	7	20.86	20.89	20.92		
5	16QAM	12	13	20.80	20.80	20.67	22	2
5	16QAM	25	0	20.95	20.93	20.79		
5	64QAM	1	0	20.95	21.19	21.30		
5	64QAM	1	12	21.27	21.34	21.07	22	2
5	64QAM	1	24	20.93	20.92	20.81		
5	64QAM	12	0	19.82	19.82	19.85		
5	64QAM	12	7	19.95	20.04	19.98	21	3
5	64QAM	12	13	19.98	19.92	19.85		
5	64QAM	25	0	19.81	19.88	19.69		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.85	22.73	22.85	24	0
3	QPSK	1	8	22.90	22.97	22.89		
3	QPSK	1	14	22.98	22.78	22.60		
3	QPSK	8	0	21.77	21.80	21.67	23	1
3	QPSK	8	4	21.99	22.10	21.79		
3	QPSK	8	7	21.91	21.83	21.65		
3	QPSK	15	0	21.86	22.04	21.80	23	1
3	16QAM	1	0	21.84	22.05	22.04		
3	16QAM	1	8	22.08	22.15	22.08		
3	16QAM	1	14	22.15	21.98	22.15	22	2
3	16QAM	8	0	21.04	20.99	20.74		
3	16QAM	8	4	20.99	20.93	20.83		
3	16QAM	8	7	20.74	20.78	20.59	22	2
3	16QAM	15	0	20.88	20.85	20.69		
3	16QAM	15	0	20.95	21.23	21.29		
3	64QAM	1	8	21.41	21.33	21.04	22	2
3	64QAM	1	14	20.91	20.93	20.89		
3	64QAM	8	0	19.89	20.00	19.86		
3	64QAM	8	4	20.01	20.08	19.93	21	3
3	64QAM	8	7	19.90	19.95	19.73		
3	64QAM	15	0	19.89	20.01	19.50		
Channel								
Frequency (MHz)								
1.4	QPSK</							



Band 7_Ant 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								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	14.67	14.65	14.48	15.5	0
20	QPSK	1	49	14.73	14.64	14.48		
20	QPSK	1	99	14.72	14.81	14.61		
20	QPSK	50	0	14.81	14.84	14.85	15.5	0
20	QPSK	50	24	14.73	14.80	14.74		
20	QPSK	50	50	14.78	14.86	14.83		
20	QPSK	100	0	14.85	14.89	14.77	15.5	0
20	16QAM	1	0	14.83	14.92	14.85		
20	16QAM	1	49	14.89	14.87	14.81		
20	16QAM	1	99	14.78	14.83	14.85	15.5	0
20	16QAM	50	0	14.78	14.81	14.85		
20	16QAM	50	24	14.78	14.92	14.79		
20	16QAM	50	50	14.85	14.74	14.80	15.5	0
20	16QAM	100	0	14.79	14.88	14.70		
20	16QAM	100	0	14.78	14.73	14.84		
20	64QAM	1	0	14.83	14.90	14.83	15.5	0
20	64QAM	1	99	14.92	14.77	14.82		
20	64QAM	50	0	14.87	14.82	14.70		
20	64QAM	50	24	14.89	14.77	14.82	15.5	0
20	64QAM	50	50	14.85	14.84	14.88		
20	64QAM	100	0	14.77	14.84	14.75		
Channel				20625	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20975	2335	25925		
15	QPSK	1	0	14.84	14.61	14.43	15.5	0
15	QPSK	1	37	14.77	14.68	14.43		
15	QPSK	1	74	14.62	14.72	14.52		
15	QPSK	36	0	14.73	14.77	14.55	15.5	0
15	QPSK	36	20	14.80	14.78	14.55		
15	QPSK	36	39	14.75	14.82	14.55		
15	QPSK	75	0	14.77	14.81	14.73	15.5	0
15	QPSK	1	0	14.73	14.82	14.85		
15	16QAM	1	37	14.86	14.83	14.72		
15	16QAM	1	74	14.68	14.58	14.59	15.5	0
15	16QAM	36	0	14.74	14.73	14.53		
15	16QAM	36	20	14.73	14.84	14.73		
15	16QAM	36	39	14.74	14.68	14.70	15.5	0
15	16QAM	75	0	14.69	14.82	14.81		
15	64QAM	1	0	14.70	14.66	14.72		
15	64QAM	1	37	14.80	14.83	14.78	15.5	0
15	64QAM	1	74	14.67	14.72	14.70		
15	64QAM	36	0	14.78	14.70	14.86		
15	64QAM	36	20	14.78	14.73	14.80	15.5	0
15	64QAM	36	39	14.73	14.73	14.81		
15	64QAM	75	0	14.66	14.72	14.72		
Channel				20600	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2295	2335	2695		
10	QPSK	1	0	14.82	14.56	14.45	15.5	0
10	QPSK	1	25	14.73	14.89	14.83		
10	QPSK	1	49	14.65	14.78	14.53		
10	QPSK	25	0	14.73	14.81	14.60	15.5	0
10	QPSK	25	12	14.75	14.87	14.82		
10	QPSK	25	25	14.68	14.74	14.51		
10	QPSK	50	0	14.73	14.88	14.65	15.5	0
10	16QAM	1	0	14.78	14.86	14.78		
10	16QAM	1	49	14.68	14.60	14.83		
10	16QAM	25	0	14.70	14.77	14.53	15.5	0
10	16QAM	25	12	14.71	14.80	14.77		
10	16QAM	25	25	14.79	14.68	14.74		
10	16QAM	50	0	14.67	14.83	14.68	15.5	0
10	16QAM	1	0	14.74	14.70	14.73		
10	64QAM	1	25	14.80	14.86	14.81		
10	64QAM	1	49	14.69	14.68	14.78	15.5	0
10	64QAM	25	0	14.76	14.73	14.84		
10	64QAM	25	12	14.84	14.75	14.74		
10	64QAM	25	25	14.74	14.74	14.80	15.5	0
10	64QAM	50	0	14.69	14.76	14.85		
10	64QAM	50	0	14.69	14.76	14.85		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				22925	2335	26925		
5	QPSK	1	0	14.65	14.54	14.35	15.5	0
5	QPSK	1	12	14.76	14.86	14.77		
5	QPSK	1	24	14.67	14.72	14.53		
5	QPSK	12	0	14.74	14.73	14.53	15.5	0
5	QPSK	12	7	14.72	14.88	14.81		
5	QPSK	12	13	14.76	14.74	14.55		
5	QPSK	25	0	14.78	14.77	14.70	15.5	0
5	16QAM	1	0	14.71	14.89	14.74		
5	16QAM	1	12	14.85	14.78	14.71		
5	16QAM	1	24	14.74	14.81	14.87	15.5	0
5	16QAM	12	0	14.71	14.77	14.54		
5	16QAM	12	7	14.78	14.88	14.87		
5	16QAM	12	13	14.77	14.67	14.89	15.5	0
5	16QAM	25	0	14.70	14.79	14.82		
5	64QAM	1	0	14.75	14.61	14.73		
5	64QAM	1	12	14.71	14.82	14.76	15.5	0
5	64QAM	1	24	14.82	14.73	14.73		
5	64QAM	12	0	14.83	14.77	14.88		
5	64QAM	12	7	14.77	14.65	14.70	15.5	0
5	64QAM	12	13	14.75	14.82	14.78		
5	64QAM	25	0	14.75	14.61	14.65		

Band 7_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	21.02	21.11	21.04	22	0
20	QPSK	1	49	21.03	21.01	21.03		
20	QPSK	50	0	20.91	21.07	20.82		
20	QPSK	50	24	21.11	21.13	21.08	22	0
20	QPSK	50	50	21.09	21.04	20.87		
20	QPSK	100	0	21.07	21.12	21.08		
20	16QAM	1	0	21.01	21.04	20.99	22	0
20	16QAM	1	49	21.06	21.00	21.01		
20	16QAM	1	99	21.05	21.11	21.04		
20	16QAM	50	0	21.10	21.11	21.07	22	0
20	16QAM	50	24	21.05	21.10	21.10		
20	16QAM	50	50	21.12	21.08	21.06		
20	16QAM	100	0	21.05	21.08	21.08	22	0
20	64QAM	1	0	21.05	21.08	21.07		
20	64QAM	1	49	21.12	21.08	21.09		
20	64QAM	1	99	21.12	21.12	21.07	22	0
20	64QAM	50	0	20.27	20.28	20.19		
20	64QAM	50	24	20.29	20.46	20.26		
20	64QAM	50	50	20.37	20.33	20.16	21	1
20	64QAM	100	0	20.28	20.47	20.18		
Channel				20625	21100	21375		
Frequency (MHz)				25075	2535	25925		
15	QPSK	1	0	20.92	20.95	21.04	22	0
15	QPSK	1	37	21.00	21.06	21.02		
15	QPSK	1	74	21.00	20.90	20.97		
15	QPSK	36	0	20.85	21.00	20.72	22	0
15	QPSK	36	20	21.05	21.08	20.87		
15	QPSK	36	39	21.04	20.98	20.93		
15	QPSK	75	0	21.00	21.09	21.05	22	0
15	16QAM	1	0	20.98	20.98	20.98		
15	16QAM	1	37	21.02	20.90	20.92		
15	16QAM	1	74	21.02	21.04	20.95	22	0
15	16QAM	36	0	21.02	21.08	20.98		
15	16QAM	36	20	21.02	21.08	21.02		
15	16QAM	36	39	21.05	21.00	20.95	22	0
15	16QAM	75	0	20.95	21.02	21.02		
15	64QAM	1	0	20.95	20.95	20.98		
15	64QAM	1	37	21.01	20.87	21.04	22	0
15	64QAM	1	74	21.08	21.01	21.02		
15	64QAM	36	0	21.24	20.86	20.13		
15	64QAM	36	20	20.20	20.42	20.18	21	1
15	64QAM	36	39	20.28	20.14	20.14		
15	64QAM	75	0	20.16	20.42	20.11		
Channel				20600	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2295	2335	2695		
10	QPSK	1	0	20.92	20.96	21.00	22	0
10	QPSK	1	25	21.02	21.10	21.05		
10	QPSK	1	49	20.97	20.98	20.95		
10	QPSK	25	0	20.88	21.01	20.87	22	0
10	QPSK	25	12	21.02	21.08	20.87		
10	QPSK	25	25	20.98	20.98	20.85		
10	QPSK	50	0	21.00	21.05	20.98	22	0
10	16QAM	1	0	20.90	20.96	20.87		
10	16QAM	1	49	20.95	20.95	20.97		
10	16QAM	1	99	20.95	21.07	20.95	22	0
10	16QAM	25	0	21.00	21.00	21.00		
10	16QAM	25	12	21.02	21.04	21.00		
10	16QAM	25	25	21.02	21.04	20.99	22	0
10	16QAM	50	0	20.98	21.06	20.98		



Band 12_Ant 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										
Frequency (MHz)										
10	QPSK	1	0	22.80	22.72	22.84	24	0		
10	QPSK	1	25	22.80	22.72	22.84				
10	QPSK	1	49	22.83	22.85	22.89				
10	QPSK	25	0	21.86	21.83	21.80				
10	QPSK	25	12	21.86	21.83	21.80	23	1		
10	QPSK	25	25	21.80	21.87	21.83				
10	QPSK	50	0	21.79	21.88	21.95				
10	16QAM	1	0	21.74	22.37	22.98				
10	16QAM	1	25	22.11	22.11	22.57	23	1		
10	16QAM	1	49	22.92	22.93	22.12				
10	16QAM	25	0	20.72	20.98	20.84				
10	16QAM	25	12	21.00	20.92	20.94				
10	16QAM	25	25	20.96	20.92	20.79	22	2		
10	16QAM	50	0	20.84	20.88	20.90				
10	16QAM	1	0	20.86	21.22	21.22				
10	64QAM	1	25	21.37	21.40	21.35				
10	64QAM	1	49	21.33	21.14	20.96	22	2		
10	64QAM	25	0	19.82	19.93	19.86				
10	64QAM	25	12	20.10	20.06	19.99				
10	64QAM	25	25	19.99	19.94	19.94				
10	64QAM	50	0	19.95	19.94	20.00	21	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.73	22.64	22.76			24	0
5	QPSK	1	12	22.83	22.86	22.87				
5	QPSK	1	24	22.99	22.71	22.71				
5	QPSK	12	0	21.54	21.74	21.85				
5	QPSK	12	7	21.86	21.74	21.88	23	1		
5	QPSK	12	13	21.69	21.84	21.73				
5	QPSK	25	0	21.71	21.98	21.85				
5	16QAM	1	0	21.72	22.32	22.99				
5	16QAM	1	12	21.97	22.08	22.45	23	1		
5	16QAM	1	24	22.41	22.41	22.07				
5	16QAM	12	0	20.86	20.83	20.71				
5	16QAM	12	7	20.91	20.92	20.79				
5	16QAM	12	13	20.90	20.92	20.86	22	2		
5	16QAM	25	0	20.81	20.78	20.83				
5	64QAM	1	0	20.84	21.10	21.12				
5	64QAM	1	12	21.28	21.27	21.33				
5	64QAM	1	24	21.31	21.09	20.90	22	2		
5	64QAM	12	0	19.82	19.80	19.84				
5	64QAM	12	7	19.97	19.98	19.88				
5	64QAM	12	13	19.97	19.89	19.80				
5	64QAM	25	0	19.83	19.89	19.85	21	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.77	22.62	22.78			24	0
3	QPSK	1	8	22.91	22.98	22.78				
3	QPSK	1	14	22.78	22.75	22.80				
3	QPSK	8	0	21.83	21.80	21.74				
3	QPSK	8	4	21.89	21.75	21.75	23	1		
3	QPSK	8	7	21.97	21.82	21.74				
3	QPSK	15	0	21.78	21.85	21.90				
3	16QAM	1	0	21.70	22.28	22.94				
3	16QAM	1	8	21.98	22.06	22.54	23	1		
3	16QAM	1	14	22.46	22.38	22.08				
3	16QAM	8	0	20.87	20.80	20.72				
3	16QAM	8	4	20.87	20.81	20.80				
3	16QAM	8	7	20.84	20.88	20.79	22	2		
3	16QAM	15	0	20.82	20.82	20.90				
3	64QAM	1	0	20.80	21.16	21.13				
3	64QAM	1	8	21.37	21.30	21.23				
3	64QAM	1	14	21.33	21.02	20.84	22	2		
3	64QAM	8	0	19.87	19.88	19.83				
3	64QAM	8	4	20.04	19.94	19.85				
3	64QAM	8	7	19.98	19.89	19.84				
3	64QAM	15	0	19.98	19.93	19.90	21	3		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.70	22.74	22.81			24	0
1.4	QPSK	1	3	22.80	22.81	22.85				
1.4	QPSK	1	5	22.80	22.85	22.72				
1.4	QPSK	3	0	22.79	22.82	22.71				
1.4	QPSK	3	1	22.69	22.83	22.74	23	1		
1.4	QPSK	3	3	22.81	22.82	22.70				
1.4	QPSK	6	0	21.82	21.87	21.88				
1.4	16QAM	1	0	22.27	21.89	21.92				
1.4	16QAM	1	3	22.19	22.18	21.95	23	1		
1.4	16QAM	1	5	21.94	21.97	21.87				
1.4	16QAM	3	0	21.70	21.77	21.79				
1.4	16QAM	3	1	21.83	21.83	21.91				
1.4	16QAM	3	3	21.84	21.73	21.92	22	2		
1.4	16QAM	6	0	21.07	21.05	20.99				
1.4	64QAM	1	0	21.05	21.03	20.85				
1.4	64QAM	1	3	21.24	20.89	20.84				
1.4	64QAM	1	5	20.90	21.05	21.19	22	2		
1.4	64QAM	3	0	20.95	21.03	21.24				
1.4	64QAM	3	1	21.10	20.76	21.13				
1.4	64QAM	3	3	21.07	21.12	20.99				
1.4	64QAM	15	0	19.95	19.95	19.94	21	3		

Band 12_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.71	22.81	22.85	24	0		
10	QPSK	1	25	22.80	22.82	22.82				
10	QPSK	1	49	22.83	22.82	22.82				
10	QPSK	25	0	21.53	21.85	21.84				
10	QPSK	25	12	21.53	21.74	21.83	23	1		
10	QPSK	25	25	21.73	21.88	21.68				
10	QPSK	50	0	21.86	21.75	21.73				
10	16QAM	1	0	22.08	22.17	22.04				
10	16QAM	1	25	22.34	22.42	22.01	23	1		
10	16QAM	1	49	22.04	22.29	22.07				
10	16QAM	25	0	20.70	20.88	20.82				
10	16QAM	25	12	20.86	20.85	20.79				
10	16QAM	25	25	20.84	20.84	20.77	22	2		
10	16QAM	50	0	20.71	20.83	20.78				
10	64QAM	1	0	20.92	21.00	21.09				
10	64QAM	1	25	21.06	20.91	20.91				
10	64QAM	1	49	20.93	20.84	20.84	22	2		
10	64QAM	25	0	19.88	19.79	19.75				
10	64QAM	25	12	19.91	19.86	19.81				
10	64QAM	25	25	19.88	19.90	19.93				
10	64QAM	50	0	19.74	19.80	19.86	21	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.57	22.80	22.58			24	0
5	QPSK	1	12	22.76	22.83	22.83				
5	QPSK	1	24	22.73	22.81	22.71				
5	QPSK	12	0	21.42	21.84	21.84				
5	QPSK	12	7	21.80	21.69	21.78	23	1		
5	QPSK	12	13	21.81	21.83	21.51				
5	QPSK	25	0	21.53	21.72	21.71				
5	16QAM	1	0	21.98	22.06	22.06				
5	16QAM	1	12	22.24	22.41	21.95	23	1		
5	16QAM	1	24	21.95	22.23	22.06				
5	16QAM	12	0	20.58	20.61	20.68				
5	16QAM	12	7	20.78	20.73	20.74				
5	16QAM	12	13	20.75	20.78	20.72	22	2		
5	16QAM	25	0	20.17	20.17	20.81				
5	64QAM	1	0	20.81	20.80	21.02				
5	64QAM	1	12	20.92	20.84	20.77				
5	64QAM	1	24	20.98	20.78	20.77	22	2		
5	64QAM	12	0	19.58	19.69	19.70				
5	64QAM	12	7	19.77	19.81	19.78				
5	64QAM	12	13	19.79	19.80	19.80				
5	64QAM	25	0	19.74	19.71	19.73	21	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.69	22.82	22.82			24	0
3	QPSK	1	8	22.85	22.87	22.85				
3	QPSK	1	14	22.81	22.78	22.77				
3	QPSK	8	0	21.41	21.83	21.83				
3	QPSK	8	4	21.88	21.72	21.88	23	1		
3	QPSK	8	7	21.81	21.68	21.81				
3	QPSK	15	0	21.84	21.86	21.82				
3	16QAM	1	0	22.01	22.11	21.96				
3	16QAM	1	8	22.16	22.31	21.98	23	1		
3	16QAM	1	14	21.89	22.23	21.98				
3	16QAM	8	0	20.55	20.84	20.82				
3	16QAM	8	4	20.74	20.84	20.69				
3	16QAM	8	7	20.83	20.71	20.65	22	2		
3	16QAM	15	0	20.89	20.83	20.84				
3	64QAM	1	0	20.82	20.95	21.05				
3	64QAM	1	8	21.00	20.90	20.86				
3	64QAM	1	14	20.85	20.82	20.81	22	2		
3	64QAM	8	0	19.84	19.70	19.71				
3	64QAM	8	4	19.87	19.77	19.80				
3	64QAM	8	7	19.82	19.85	19.85				
3	64QAM	15	0	19.59	19.80	19.76	21	3		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.70	22.57	22.52			24	0
1.4	QPSK	1	3	22.73	22.80	22.82				
1.4	QPSK	1	5	22.70	22.68					



Band 13_Ant 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 23200								
Frequency (MHz)								
10	QPSK	1	0	23.01	23.01	23.01	24	0
10	QPSK	1	25	22.83	22.83	22.83		
10	QPSK	1	49	22.98	22.98	22.98		
10	QPSK	25	0	21.80	21.80	21.80	23	1
10	QPSK	25	12	21.83	21.83	21.83		
10	QPSK	25	25	21.89	21.89	21.89		
10	QPSK	50	0	21.95	21.95	21.95	23	1
10	16QAM	1	0	22.25	22.25	22.25		
10	16QAM	1	25	22.37	22.37	22.37		
10	16QAM	1	49	22.43	22.43	22.43	22	2
10	16QAM	25	0	20.98	20.98	20.98		
10	16QAM	25	12	21.15	21.15	21.15		
10	16QAM	25	25	20.98	20.98	20.98	22	2
10	16QAM	50	0	20.98	20.98	20.98		
10	64QAM	1	0	21.15	21.15	21.15		
10	64QAM	1	25	21.08	21.08	21.08	22	2
10	64QAM	1	49	21.32	21.32	21.32		
10	64QAM	25	0	19.90	19.90	19.90		
10	64QAM	25	12	20.08	20.08	20.08	21	3
10	64QAM	25	25	19.94	19.94	19.94		
10	64QAM	50	0	19.95	19.95	19.95		
Channel 23250								
Frequency (MHz)								
5	QPSK	1	0	22.99	22.96	22.96	24	0
5	QPSK	1	12	22.86	22.80	22.83		
5	QPSK	1	24	22.97	22.83	22.96		
5	QPSK	12	0	21.79	21.72	21.76	23	1
5	QPSK	12	7	21.96	21.97	21.95		
5	QPSK	12	13	21.84	21.76	21.89		
5	QPSK	25	0	21.88	21.77	21.84	23	1
5	16QAM	1	0	22.21	22.20	22.12		
5	16QAM	1	12	22.37	22.29	22.27		
5	16QAM	1	24	22.32	22.28	22.37	22	2
5	16QAM	12	0	20.72	20.84	20.73		
5	16QAM	12	7	21.01	21.11	21.10		
5	16QAM	12	13	20.88	20.83	20.88	22	2
5	16QAM	25	0	20.90	20.88	20.95		
5	64QAM	1	0	21.00	21.10	21.07		
5	64QAM	1	12	21.06	21.04	21.06	22	2
5	64QAM	1	24	21.22	21.18	21.24		
5	64QAM	12	0	19.90	19.82	19.89		
5	64QAM	12	7	20.02	19.97	20.02	21	3
5	64QAM	12	13	19.91	19.85	19.94		
5	64QAM	25	0	19.80	19.80	19.75		

Band 13_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel 23200								
Frequency (MHz)								
10	QPSK	1	0	22.83	22.83	22.83	24	0
10	QPSK	1	25	22.88	22.88	22.88		
10	QPSK	1	49	22.85	22.85	22.85		
10	QPSK	25	0	21.67	21.67	21.67	23	1
10	QPSK	25	12	21.67	21.67	21.67		
10	QPSK	25	25	21.74	21.74	21.74		
10	QPSK	50	0	21.76	21.76	21.76	23	1
10	16QAM	1	0	21.98	21.98	21.98		
10	16QAM	1	25	22.01	22.01	22.01		
10	16QAM	1	49	21.95	21.95	21.95	22	2
10	16QAM	25	0	20.75	20.75	20.75		
10	16QAM	25	12	20.79	20.79	20.79		
10	16QAM	25	25	20.68	20.68	20.68	22	2
10	16QAM	50	0	20.78	20.78	20.78		
10	64QAM	1	0	21.06	21.06	21.06		
10	64QAM	1	25	21.16	21.16	21.16	22	2
10	64QAM	1	49	20.94	20.94	20.94		
10	64QAM	25	0	19.85	19.85	19.85		
10	64QAM	25	12	19.88	19.88	19.88	21	3
10	64QAM	25	25	19.73	19.73	19.73		
10	64QAM	50	0	19.76	19.76	19.76		
Channel 23250								
Frequency (MHz)								
5	QPSK	1	0	22.82	22.73	22.83	24	0
5	QPSK	1	12	22.81	22.85	22.74		
5	QPSK	1	24	22.72	22.80	22.79		
5	QPSK	12	0	21.53	21.81	21.80	23	1
5	QPSK	12	7	21.85	21.87	21.85		
5	QPSK	12	13	21.05	21.73	21.67		
5	QPSK	25	0	21.75	21.65	21.82	23	1
5	16QAM	1	0	21.93	21.85	21.89		
5	16QAM	1	12	21.94	21.87	21.91		
5	16QAM	1	24	21.91	21.89	21.89	22	2
5	16QAM	12	0	20.70	20.66	20.69		
5	16QAM	12	7	20.64	20.66	20.76		
5	16QAM	12	13	20.57	20.67	20.58	22	2
5	16QAM	25	0	20.77	20.75	20.75		
5	64QAM	1	0	21.04	21.02	21.05		
5	64QAM	1	12	21.16	21.06	21.16	22	2
5	64QAM	1	24	20.85	20.91	20.82		
5	64QAM	12	0	19.70	19.71	19.79		
5	64QAM	12	7	19.85	19.74	19.75	21	3
5	64QAM	12	13	19.72	19.69	19.64		
5	64QAM	25	0	19.67	19.66	19.75		



Band 17_Ant 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								
Frequency (MHz)				2370	2390	2390		
10	QPSK	1	0	22.73	22.85	22.86	24	0
10	QPSK	1	25	22.83	22.95	22.96		
10	QPSK	1	49	22.86	22.86	22.93		
10	QPSK	25	0	21.80	21.77	21.72	23	1
10	QPSK	25	12	21.83	21.80	21.83		
10	QPSK	25	25	21.81	21.84	21.76		
10	QPSK	50	0	21.81	21.88	21.78	23	1
10	16QAM	1	0	22.08	22.04	22.35		
10	16QAM	1	25	22.49	22.05	22.05		
10	16QAM	1	49	22.35	22.05	22.23	22	2
10	16QAM	25	0	20.86	20.82	20.77		
10	16QAM	25	12	20.88	20.84	20.87		
10	16QAM	25	25	21.00	20.84	20.84	22	2
10	16QAM	50	0	20.81	20.83	20.83		
10	64QAM	1	0	21.19	21.18	21.14		
10	64QAM	1	25	21.39	21.27	21.21	22	2
10	64QAM	1	49	21.12	21.16	21.09		
10	64QAM	25	0	19.94	19.88	19.89		
10	64QAM	25	12	20.00	19.82	19.98	21	3
10	64QAM	25	25	19.95	19.88	19.78		
10	64QAM	50	0	19.86	19.88	19.83		
Channel				2370	2390	2390	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.58	22.72	22.86	24	0
5	QPSK	1	12	22.87	22.86	22.86		
5	QPSK	1	24	22.74	22.76	22.85		
5	QPSK	12	0	21.74	21.7	21.67	23	1
5	QPSK	12	7	21.75	21.78	21.8		
5	QPSK	12	13	21.69	21.81	21.73		
5	QPSK	25	0	21.76	21.82	21.65	23	1
5	16QAM	1	0	22.04	22.01	22.28		
5	16QAM	1	12	22.48	22.05	22.1		
5	16QAM	1	24	22.22	22.03	22.14	22	2
5	16QAM	12	0	20.79	20.69	20.74		
5	16QAM	12	7	20.79	20.53	20.73		
5	16QAM	12	13	20.91	20.72	20.82	22	2
5	16QAM	25	0	20.76	20.68	20.68		
5	64QAM	1	0	21.11	21.09	21.09		
5	64QAM	1	12	21.32	21.18	21.07	22	2
5	64QAM	1	24	21.06	21.12	21.06		
5	64QAM	12	0	19.87	19.73	19.76		
5	64QAM	12	7	19.98	19.86	19.84	21	3
5	64QAM	12	13	19.8	19.77	19.71		
5	64QAM	25	0	19.71	19.75	19.79		

Band 17_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				706	710	711		
10	QPSK	1	0	22.69	22.72	22.62	24	0
10	QPSK	1	25	22.81	22.88	22.82		
10	QPSK	1	49	22.72	22.70	22.75		
10	QPSK	25	0	21.84	21.73	21.59	23	1
10	QPSK	25	12	21.73	21.78	21.77		
10	QPSK	25	25	21.89	21.74	21.64		
10	QPSK	50	0	21.70	21.72	21.66	23	1
10	16QAM	1	0	21.80	22.07	22.15		
10	16QAM	1	25	21.76	22.04	21.89		
10	16QAM	1	49	22.10	22.09	21.91	22	2
10	16QAM	25	0	20.78	20.73	20.73		
10	16QAM	25	12	20.79	20.79	20.76		
10	16QAM	25	25	20.79	20.72	20.71	22	2
10	16QAM	50	0	20.81	20.78	20.71		
10	64QAM	1	0	20.92	20.73	21.10		
10	64QAM	1	25	20.91	21.18	20.96	22	2
10	64QAM	1	49	20.79	20.83	21.08		
10	64QAM	25	0	19.76	19.80	19.76		
10	64QAM	25	12	19.89	19.86	19.89	21	3
10	64QAM	25	25	19.87	19.83	19.67		
10	64QAM	50	0	19.89	19.79	19.69		
Channel				2370	2390	2390	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.84	22.82	22.80	24	0
5	QPSK	1	12	22.71	22.80	22.79		
5	QPSK	1	24	22.57	22.81	22.83		
5	QPSK	12	0	21.60	21.71	21.45	23	1
5	QPSK	12	7	21.59	21.72	21.64		
5	QPSK	12	13	21.62	21.69	21.62		
5	QPSK	25	0	21.66	21.89	21.53	23	1
5	16QAM	1	0	21.69	22.03	22.13		
5	16QAM	1	12	21.64	21.94	21.81		
5	16QAM	1	24	22.03	22.07	21.88	22	2
5	16QAM	12	0	20.66	20.70	20.68		
5	16QAM	12	7	20.75	20.74	20.72		
5	16QAM	12	13	20.85	20.69	20.68	22	2
5	16QAM	25	0	20.73	20.77	20.65		
5	64QAM	1	0	20.80	20.81	21.09		
5	64QAM	1	12	20.84	21.08	20.92	22	2
5	64QAM	1	24	20.84	20.81	21.05		
5	64QAM	12	0	19.72	19.76	19.65		
5	64QAM	12	7	19.93	19.78	19.78	21	3
5	64QAM	12	13	19.73	19.68	19.60		
5	64QAM	25	0	19.79	19.68	19.61		



Band 18_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	22.97	22.97	22.97	24.5	0
15	QPSK	1	37	23.20	23.20	23.20		
15	QPSK	1	74	23.00	23.00	23.00		
15	QPSK	36	0	22.12	22.12	22.12	23.5	1
15	QPSK	36	20	22.31	22.31	22.31		
15	QPSK	36	39	22.25	22.25	22.25		
15	QPSK	75	0	22.23	22.23	22.23	23.5	1
15	16QAM	1	0	22.24	22.24	22.24		
15	16QAM	1	37	22.51	22.51	22.51		
15	16QAM	1	74	22.53	22.53	22.53	22.5	2
15	16QAM	36	0	21.17	21.17	21.17		
15	16QAM	36	20	21.27	21.27	21.27		
15	16QAM	36	39	21.16	21.16	21.16	22.5	2
15	16QAM	75	0	21.28	21.28	21.28		
15	64QAM	1	0	21.17	21.17	21.17		
15	64QAM	1	37	21.38	21.38	21.38	22.5	2
15	64QAM	1	74	21.91	21.91	21.91		
15	64QAM	36	0	20.24	20.24	20.24		
15	64QAM	36	20	20.19	20.19	20.19	21.5	3
15	64QAM	36	39	20.25	20.25	20.25		
15	64QAM	75	0	20.16	20.16	20.16		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.92	22.91	22.86	24.5	0
10	QPSK	1	25	23.17	23.09	23.18		
10	QPSK	1	49	22.93	22.89	22.87		
10	QPSK	25	0	22.00	22.05	22.00	23.5	1
10	QPSK	25	12	22.17	22.17	22.25		
10	QPSK	25	25	22.25	22.14	22.14		
10	QPSK	50	0	22.23	22.20	22.21	23.5	1
10	16QAM	1	0	22.09	22.13	22.23		
10	16QAM	1	25	22.42	22.47	22.40		
10	16QAM	1	49	22.49	22.53	22.44	22.5	2
10	16QAM	25	0	21.05	21.02	21.13		
10	16QAM	25	12	21.13	21.22	21.15		
10	16QAM	25	25	21.13	21.07	21.16	22.5	2
10	16QAM	50	0	21.18	21.19	21.18		
10	64QAM	1	0	21.02	21.11	21.08		
10	64QAM	1	25	21.34	21.29	21.36	22.5	2
10	64QAM	1	49	20.93	20.89	20.88		
10	64QAM	25	0	20.24	20.21	20.23		
10	64QAM	25	12	20.10	20.09	20.18	21.5	3
10	64QAM	25	25	20.23	20.17	20.14		
10	64QAM	50	0	20.08	20.09	20.08		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.93	22.91	22.96	24.5	0
5	QPSK	1	12	23.16	23.17	23.13		
5	QPSK	1	24	22.98	22.87	22.97		
5	QPSK	12	0	22.01	22.01	22.08	23.5	1
5	QPSK	12	7	22.19	22.27	22.28		
5	QPSK	12	13	22.22	22.14	22.18		
5	QPSK	25	0	22.12	22.16	22.22	23.5	1
5	16QAM	1	0	22.17	22.09	22.23		
5	16QAM	1	12	22.39	22.42	22.37		
5	16QAM	1	24	22.50	22.52	22.53	22.5	2
5	16QAM	12	0	21.02	21.03	21.09		
5	16QAM	12	7	21.20	21.22	21.21		
5	16QAM	12	13	21.16	21.10	21.08	22.5	2
5	16QAM	25	0	21.29	21.17	21.18		
5	64QAM	1	0	21.07	21.17	21.02		
5	64QAM	1	12	21.32	21.23	21.37	22.5	2
5	64QAM	1	24	20.95	21.00	20.90		
5	64QAM	12	0	20.21	20.10	20.22		
5	64QAM	12	7	20.07	20.10	20.11	21.5	3
5	64QAM	12	13	20.20	20.10	20.12		
5	64QAM	25	0	20.05	20.09	20.12		

Band 18_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.76	22.76	22.76	24	0
15	QPSK	1	37	22.53	22.53	22.53		
15	QPSK	1	74	22.89	22.89	22.89		
15	QPSK	36	0	21.88	21.88	21.88	23	1
15	QPSK	36	20	21.98	21.98	21.98		
15	QPSK	36	39	21.88	21.88	21.88		
15	QPSK	75	0	21.81	21.81	21.81	23	1
15	16QAM	1	0	22.12	22.12	22.12		
15	16QAM	1	37	22.50	22.50	22.50		
15	16QAM	1	74	22.06	22.06	22.06	22	2
15	16QAM	36	0	20.94	20.94	20.94		
15	16QAM	36	20	20.99	20.99	20.99		
15	16QAM	36	39	21.01	21.01	21.01	22	2
15	16QAM	75	0	20.95	20.95	20.95		
15	64QAM	1	0	20.95	20.95	20.95		
15	64QAM	1	37	21.33	21.33	21.33	22	2
15	64QAM	1	74	21.21	21.21	21.21		
15	64QAM	36	0	19.93	19.93	19.93		
15	64QAM	36	20	19.97	19.97	19.97	21	3
15	64QAM	36	39	19.99	19.99	19.99		
15	64QAM	75	0	19.93	19.93	19.93		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.81	22.84	22.74	24	0
10	QPSK	1	25	22.83	22.87	22.86		
10	QPSK	1	49	22.75	22.84	22.81		
10	QPSK	25	0	21.84	21.81	21.86	23	1
10	QPSK	25	12	21.87	21.86	21.83		
10	QPSK	25	25	21.78	21.73	21.75		
10	QPSK	50	0	21.77	21.82	21.88	23	1
10	16QAM	1	0	22.09	22.05	22.12		
10	16QAM	1	25	22.44	22.40	22.48		
10	16QAM	1	49	22.03	21.99	22.04	22	2
10	16QAM	25	0	20.92	20.99	20.99		
10	16QAM	25	12	20.94	20.87	20.99		
10	16QAM	25	25	21.01	20.95	21.01	22	2
10	16QAM	50	0	20.81	20.94	20.81		
10	64QAM	1	0	21.05	21.00	21.05		
10	64QAM	1	25	21.27	21.32	21.29	22	2
10	64QAM	1	49	21.17	21.18	21.11		
10	64QAM	25	0	19.88	19.86	19.80		
10	64QAM	25	12	19.90	19.88	19.92	21	3
10	64QAM	25	25	19.94	19.88	19.94		
10	64QAM	50	0	19.87	19.86	19.92		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.62	22.65	22.65	24	0
5	QPSK	1	12	22.86	22.84	22.85		
5	QPSK	1	24	22.78	22.74	22.83		
5	QPSK	12	0	21.87	21.87	21.81	23	1
5	QPSK	12	7	21.93	21.81	21.84		
5	QPSK	12	13	21.74	21.85	21.75		
5	QPSK	25	0	21.82	21.81	21.90	23	1
5	16QAM	1	0	21.99	22.04	22.00		
5	16QAM	1	12	22.35	22.46	22.36		
5	16QAM	1	24	22.03	22.02	21.96	22	2
5	16QAM	12	0	20.81	20.93	20.94		
5	16QAM	12	7	20.92	20.83	20.84		
5	16QAM	12	13	20.95	20.95	20.95	22	2
5	16QAM	25	0	20.92	20.85	20.87		
5	64QAM	1	0	20.85	20.85	20.85		
5	64QAM	1	12	21.23	21.21	21.24	22	2
5	64QAM	1	24	21.16	21.13	21.08		
5	64QAM	12	0	19.85	19.90	19.86		
5	64QAM	12	7	19.82	19.87	19.83	21	3
5	64QAM	12	13	19.91	19.87	19.88		
5	64QAM	25	0	19.83	19.87	19.86		



Band 19_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	23.06	23.06	23.06	24.5	0
15	QPSK	1	37	23.02	23.02	23.02		
15	QPSK	1	74	23.05	23.05	23.05		
15	QPSK	36	0	22.19	22.19	22.19	23.5	1
15	QPSK	36	20	22.24	22.24	22.24		
15	QPSK	36	39	22.06	22.06	22.06		
15	QPSK	75	0	22.16	22.16	22.16	23.5	1
15	16QAM	1	0	22.31	22.31	22.31		
15	16QAM	1	37	22.37	22.37	22.37		
15	16QAM	1	74	22.45	22.45	22.45	22.5	2
15	16QAM	36	0	21.09	21.09	21.09		
15	16QAM	36	20	21.26	21.26	21.26		
15	16QAM	36	39	21.20	21.20	21.20	22.5	2
15	16QAM	75	0	21.19	21.19	21.19		
15	64QAM	1	0	21.50	21.50	21.50		
15	64QAM	1	37	21.07	21.07	21.07	22.5	2
15	64QAM	1	74	21.15	21.15	21.15		
15	64QAM	36	0	20.23	20.23	20.23		
15	64QAM	36	20	20.42	20.42	20.42	21.5	3
15	64QAM	36	39	20.14	20.14	20.14		
15	64QAM	75	0	20.18	20.18	20.18		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.02	23.02	23.06	24.5	0
10	QPSK	1	25	23.15	23.18	23.12		
10	QPSK	1	49	22.98	22.91	23.04		
10	QPSK	25	0	22.08	22.16	22.17	23.5	1
10	QPSK	25	12	22.11	22.24	22.14		
10	QPSK	25	25	21.99	21.92	21.96		
10	QPSK	50	0	22.07	22.13	22.12	23.5	1
10	16QAM	1	0	22.26	22.23	22.18		
10	16QAM	1	25	22.35	22.36	22.29		
10	16QAM	1	49	22.30	22.32	22.31	22.5	2
10	16QAM	25	0	21.03	21.08	21.03		
10	16QAM	25	12	21.12	21.26	21.24		
10	16QAM	25	25	21.07	21.08	21.06	22.5	2
10	16QAM	50	0	21.14	21.04	21.08		
10	64QAM	1	0	21.35	21.45	21.49		
10	64QAM	1	25	20.98	20.99	20.99	22.5	2
10	64QAM	1	49	21.06	21.05	21.07		
10	64QAM	25	0	20.08	20.12	20.11		
10	64QAM	25	12	20.26	20.18	20.31	21.5	3
10	64QAM	25	25	20.12	19.69	20.14		
10	64QAM	50	0	20.17	20.07	20.03		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.94	22.94	22.95	24.5	0
5	QPSK	1	12	23.14	23.14	23.06		
5	QPSK	1	24	22.96	23.01	22.94		
5	QPSK	12	0	22.04	22.05	22.06	23.5	1
5	QPSK	12	7	22.23	22.24	22.24		
5	QPSK	12	13	22.04	21.83	21.94		
5	QPSK	25	0	22.07	22.03	22.13	23.5	1
5	16QAM	1	0	22.27	22.20	22.28		
5	16QAM	1	12	22.23	22.36	22.27		
5	16QAM	1	24	22.41	22.34	22.35	22.5	2
5	16QAM	12	0	20.96	21.04	20.97		
5	16QAM	12	7	21.14	21.18	21.21		
5	16QAM	12	13	21.11	21.12	21.10	22.5	2
5	16QAM	25	0	21.04	21.08	21.16		
5	64QAM	1	0	21.43	21.35	21.46		
5	64QAM	1	12	21.00	21.00	21.05	22.5	2
5	64QAM	1	24	21.05	21.13	21.05		
5	64QAM	12	0	20.18	20.15	20.12		
5	64QAM	12	7	20.23	20.20	20.19	21.5	3
5	64QAM	12	13	20.06	20.09	20.01		
5	64QAM	25	0	20.10	20.16	20.03		

Band 19_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.75	22.75	22.75	24	0
15	QPSK	1	37	22.32	22.32	22.32		
15	QPSK	1	74	22.73	22.73	22.73		
15	QPSK	36	0	21.90	21.90	21.90	23	1
15	QPSK	36	20	21.97	21.97	21.97		
15	QPSK	36	39	21.95	21.95	21.95		
15	QPSK	75	0	21.92	21.92	21.92	23	1
15	16QAM	1	0	22.03	22.03	22.03		
15	16QAM	1	37	22.10	22.10	22.10		
15	16QAM	1	74	21.80	21.80	21.80	22	2
15	16QAM	36	0	20.91	20.91	20.91		
15	16QAM	36	20	21.03	21.03	21.03		
15	16QAM	36	39	20.87	20.87	20.87	22	2
15	16QAM	75	0	20.99	20.99	20.99		
15	64QAM	1	0	20.96	20.96	20.96		
15	64QAM	1	37	20.89	20.89	20.89	22	2
15	64QAM	1	74	21.01	21.01	21.01		
15	64QAM	36	0	20.05	20.05	20.05		
15	64QAM	36	20	20.00	20.00	20.00	21	3
15	64QAM	36	39	19.89	19.89	19.89		
15	64QAM	75	0	20.00	20.00	20.00		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.74	22.74	22.72	24	0
10	QPSK	1	25	22.76	22.81	22.81		
10	QPSK	1	49	22.67	22.61	22.73		
10	QPSK	25	0	21.86	21.89	21.75	23	1
10	QPSK	25	12	21.95	21.88	21.92		
10	QPSK	25	25	21.81	21.91	21.95		
10	QPSK	50	0	21.81	21.86	21.84	23	1
10	16QAM	1	0	21.95	22.00	21.98		
10	16QAM	1	25	21.99	22.03	22.09		
10	16QAM	1	49	21.85	21.69	21.70	22	2
10	16QAM	25	0	20.84	20.79	20.81		
10	16QAM	25	12	20.89	20.98	21.02		
10	16QAM	25	25	20.83	20.78	20.84	22	2
10	16QAM	50	0	20.76	20.86	20.86		
10	64QAM	1	0	20.84	20.88	20.94		
10	64QAM	1	25	20.89	20.76	20.78	22	2
10	64QAM	1	49	20.95	21.01	20.96		
10	64QAM	25	0	20.02	20.04	19.97		
10	64QAM	25	12	19.92	19.99	19.90	21	3
10	64QAM	25	25	19.84	19.77	19.86		
10	64QAM	50	0	19.85	20.00	19.94		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.63	22.68	22.68	24	0
5	QPSK	1	12	22.87	22.85	22.84		
5	QPSK	1	24	22.65	22.63	22.58		
5	QPSK	12	0	21.81	21.87	21.89	23	1
5	QPSK	12	7	21.83	21.94	21.90		
5	QPSK	12	13	21.80	21.81	21.89		
5	QPSK	25	0	21.82	21.85	21.87	23	1
5	16QAM	1	0	22.02	22.03	22.02		
5	16QAM	1	12	21.98	22.06	21.95		
5	16QAM	1	24	21.83	21.59	21.57	22	2
5	16QAM	12	0	20.87	20.76	20.85		
5	16QAM	12	7	20.95	21.00	20.94		
5	16QAM	12	13	20.72	20.82	20.73	22	2
5	16QAM	25	0	20.78	20.81	20.78		
5	64QAM	1	0	20.82	20.84	20.84		
5	64QAM	1	12	20.84	20.76	20.86	22	2
5	64QAM	1	24	20.90	20.95	20.97		
5	64QAM	12	0	20.01	19.94	19.94		
5	64QAM	12	7	19.91	19.98	20.00	21	3
5	64QAM	12	13	19.81	19.81	19.75		
5	64QAM	25	0	19.87	19.85	19.97		



Band 26_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	23.26	23.41	23.40	24.5	0
15	QPSK	1	37	23.11	23.11	23.11		
15	QPSK	1	74	23.29	23.40	23.38		
15	QPSK	36	0	22.34	22.47	22.46	23.5	1
15	QPSK	36	20	22.12	22.12	22.12		
15	QPSK	36	39	22.39	22.49	22.38		
15	QPSK	75	0	22.60	22.65	22.62	23.5	1
15	16QAM	1	0	23.01	23.01	22.98		
15	16QAM	1	37	22.89	23.03	23.01		
15	16QAM	1	74	22.81	22.83	22.86	22.5	2
15	16QAM	36	0	21.37	21.47	21.44		
15	16QAM	36	20	21.49	21.63	21.58		
15	16QAM	36	39	21.51	21.52	21.41	21.5	3
15	16QAM	75	0	21.39	21.45	21.31		
15	16QAM	1	0	21.84	21.91	21.86		
15	64QAM	1	37	21.92	21.97	21.85	22.5	2
15	64QAM	1	74	21.70	21.74	21.73		
15	64QAM	36	0	20.42	20.55	20.44		
15	64QAM	36	20	20.45	20.58	20.51	21.5	3
15	64QAM	36	39	20.43	20.51	20.45		
15	64QAM	75	0	20.31	20.45	20.30		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.15	23.32	23.38	24.5	0
10	QPSK	1	25	23.44	23.44	23.40		
10	QPSK	1	49	23.16	23.38	23.38		
10	QPSK	25	0	22.23	22.47	22.30	23.5	1
10	QPSK	25	12	22.08	22.27	22.27		
10	QPSK	25	25	22.39	22.37	22.25		
10	QPSK	50	0	22.57	22.57	22.5	23.5	1
10	16QAM	1	0	23.97	23.92	23.92		
10	16QAM	1	25	22.8	22.9	22.87		
10	16QAM	1	49	22.69	22.81	22.77	22.5	2
10	16QAM	25	0	21.27	21.45	21.42		
10	16QAM	25	12	21.48	21.51	21.56		
10	16QAM	25	25	21.4	21.42	21.35	21.5	3
10	16QAM	50	0	21.27	21.38	21.38		
10	64QAM	1	0	21.81	21.77	21.72		
10	64QAM	1	25	21.88	21.82	21.72	22.5	2
10	64QAM	1	49	21.69	21.71	21.62		
10	64QAM	25	0	20.4	20.45	20.33		
10	64QAM	25	12	20.35	20.48	20.4	21.5	3
10	64QAM	25	25	20.43	20.51	20.33		
10	64QAM	50	0	20.16	20.39	20.18		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.24	23.32	23.34	24.5	0
5	QPSK	1	12	23.54	23.69	23.51		
5	QPSK	1	24	23.18	23.34	23.33		
5	QPSK	12	0	22.34	22.47	22.43	23.5	1
5	QPSK	12	7	22.81	22.63	22.57		
5	QPSK	12	13	22.28	22.44	22.34		
5	QPSK	25	0	22.55	22.61	22.49	23.5	1
5	16QAM	1	0	22.87	22.83	22.84		
5	16QAM	1	12	22.83	22.89	22.87		
5	16QAM	1	24	22.74	22.83	22.77	22.5	2
5	16QAM	12	0	21.29	21.35	21.33		
5	16QAM	12	7	21.38	21.5	21.58		
5	16QAM	12	13	21.48	21.47	21.29	21.5	3
5	16QAM	25	0	21.35	21.43	21.17		
5	64QAM	1	0	21.8	21.79	21.8		
5	64QAM	1	12	21.91	21.97	21.72	22.5	2
5	64QAM	1	24	21.67	21.68	21.68		
5	64QAM	12	0	20.34	20.51	20.36		
5	64QAM	12	7	20.41	20.48	20.45	21.5	3
5	64QAM	12	13	20.29	20.43	20.35		
5	64QAM	25	0	20.31	20.35	20.25		
Channel								
Frequency (MHz)								
3	QPSK	1	0	23.19	23.41	23.34	24.5	0
3	QPSK	1	8	23.44	23.61	23.59		
3	QPSK	1	14	23.21	23.29	23.28		
3	QPSK	8	0	22.28	22.30	22.4	23.5	1
3	QPSK	8	4	22.55	22.72	22.45		
3	QPSK	8	7	22.3	22.44	22.23		
3	QPSK	15	0	22.5	22.55	22.61	23.5	1
3	16QAM	1	0	22.93	22.88	22.98		
3	16QAM	1	8	22.86	22.88	22.95		
3	16QAM	1	14	22.79	22.8	22.79	22.5	2
3	16QAM	8	0	21.24	21.46	21.38		
3	16QAM	8	4	21.47	21.51	21.48		
3	16QAM	8	7	21.42	21.45	21.36	21.5	3
3	16QAM	15	0	21.26	21.38	21.27		
3	64QAM	1	0	21.7	21.79	21.75		
3	64QAM	1	8	21.83	21.93	21.76	22.5	2
3	64QAM	1	14	21.68	21.64	21.58		
3	64QAM	8	0	20.34	20.48	20.44		
3	64QAM	8	4	20.37	20.57	20.48	21.5	3
3	64QAM	8	7	20.42	20.38	20.27		
3	64QAM	15	0	20.17	20.4	20.18		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.14	23.34	23.23	24.5	0
1.4	QPSK	1	3	23.49	23.65	23.59		
1.4	QPSK	1	6	23.28	23.29	23.31		
1.4	QPSK	3	0	22.31	22.35	22.37	23.5	1
1.4	QPSK	3	1	23.24	23.27	23.34		
1.4	QPSK	3	3	23.23	23.37	23.24		
1.4	QPSK	6	0	22.48	22.57	22.55	23.5	1
1.4	16QAM	1	0	22.97	22.96	22.90		
1.4	16QAM	1	3	22.99	22.88	22.90		
1.4	16QAM	1	6	22.71	22.81	22.81	22.5	2
1.4	16QAM	3	0	22.62	22.65	22.49		
1.4	16QAM	3	1	22.61	22.69	22.51		
1.4	16QAM	3	3	22.57	22.60	22.57	21.5	3
1.4	16QAM	6	0	21.33	21.42	21.31		
1.4	64QAM	1	0	21.78	21.87	21.74		
1.4	64QAM	1	3	21.89	21.85	21.77	22.5	2
1.4	64QAM	1	6	21.69	21.71	21.72		
1.4	64QAM	3	0	21.44	21.46	21.46		
1.4	64QAM	3	1	21.44	21.47	21.31	21.5	3
1.4	64QAM	3	3	21.45	21.48	21.28		
1.4	64QAM	6	0	20.20	20.39	20.16		

Band 26_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.84	22.89	22.89	24	0
15	QPSK	1	37	23.15	23.15	23.15		
15	QPSK	1	74	22.91	22.91	22.89		
15	QPSK	36	0	21.83	21.92	21.83	23	1
15	QPSK	36	20	22.14	22.14	22.05		
15	QPSK	36	39	21.95	22.01	21.88		
15	QPSK	75	0	21.97	22.02	21.94	23	1
15	16QAM	1	0	22.25	22.22	22.21		
15	16QAM	1	37	22.38	22.48	22.39		
15	16QAM	1	74	22.21	22.27	22.20	22	2
15	16QAM	36	0	20.97	20.99	20.91		
15	16QAM	36	20	21.06	21.08	21.08		
15	16QAM	36	39	20.91	20.97	20.89	22	2
15	16QAM	75	0	20.97	21.03	20.89		
15	64QAM	1	0	21.10	21.05	21.06		
15	64QAM	1	37	21.40	21.46	21.39	22	2
15	64QAM	1	74	21.08	21.05	21.04		
15	64QAM	36	0	19.96	20.06	20.06		
15	64QAM	36	20	19.99	20.09	20.05	21	3
15	64QAM	36	39	19.86	19.97	19.84		
15	64QAM	75	0	19.86	19.84	19.79		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.81	22.79	22.76	24	0
10	QPSK	1	25	22.48	22.48	22.44		
10	QPSK	1	49	22.92	22.76	22.85		
10	QPSK	25	0	21.77	21.85	21.75	23	1
10	QPSK	25	12	21.96	22.01	21.78		
10	QPSK	25	25	21.95	21.97	21.78		
10	QPSK	50	0	21.85	21.93	21.88	23	1
10	16QAM	1	0	22.21	22.21	22.18		
10	16QAM	1	25	22.36	22.45	22.38		
10	16QAM	1	49	22.20	22.21	22.14	22	2
10	16QAM	25	0	20.88	20.88	20.81		
10	16QAM	25	12	20.97	20.99	20.97		
10	16QAM	25	25	20.79	20.83	20.85	21	3
10	16QAM	50	0	20.85	20.85	20.85		
10	64QAM	1	0	21.01	20.92	20.94		
10	64QAM	1	25	21.38	21.32	21.24	22	2
10	64QAM	1	49	21.08	21.01	20.91		
10	64QAM	25	0	19.95	19.95	19.91		
10	64QAM	25	12	19.86	19.94	19.86	21	3
10	64QAM	25	25	19.74	19.73	19.70		
10	64QAM	50	0	19.86	19.79	19.68		



Band 66_Ant 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								
Frequency (MHz)								
20	QPSK	1	0	17.10	17.11	16.89	18	0
20	QPSK	1	49	17.10	17.11	16.89		
20	QPSK	1	99	16.87	16.86	16.81		
20	QPSK	50	0	17.11	17.12	17.05		
20	QPSK	50	24	17.11	17.15	17.11		
20	QPSK	50	50	17.12	17.12	17.13		
20	QPSK	100	0	17.08	17.13	17.12		
20	16QAM	1	0	17.06	17.13	17.09		
20	16QAM	1	49	17.07	17.10	17.08		
20	16QAM	1	99	17.05	17.12	17.12		
20	16QAM	50	0	17.12	17.14	17.11		
20	16QAM	50	24	17.10	17.15	17.11		
20	16QAM	100	0	17.08	17.12	17.10		
20	64QAM	1	0	17.10	17.14	17.14		
20	64QAM	1	99	17.05	17.11	17.13		
20	64QAM	50	0	17.10	17.07	17.13		
20	64QAM	50	24	17.06	17.14	17.13		
20	64QAM	50	50	17.11	17.11	17.13		
20	64QAM	100	0	17.12	17.10	17.08		
Channel								
Frequency (MHz)								
15	QPSK	1	0	16.88	17.03	16.81	18	0
15	QPSK	1	74	16.92	17.05	16.71		
15	QPSK	1	74	16.84	16.86	16.76		
15	QPSK	36	0	17.06	17.09	17.03		
15	QPSK	36	20	17.11	17.04	17.12		
15	QPSK	36	39	17.03	17.08	17.01		
15	QPSK	75	0	16.89	17.05	17.01		
15	16QAM	1	0	17.04	17.04	16.89		
15	16QAM	1	37	16.98	17.00	16.90		
15	16QAM	1	74	16.99	17.07	17.10		
15	16QAM	36	0	17.06	17.05	17.05		
15	16QAM	36	20	17.00	17.10	17.09		
15	16QAM	36	39	17.01	17.12	17.07		
15	16QAM	75	0	17.00	17.10	17.02		
15	64QAM	1	0	17.03	17.07	17.07		
15	64QAM	1	37	16.98	17.07	17.07		
15	64QAM	74	0	17.04	17.04	17.01		
15	64QAM	36	0	17.01	17.03	17.08		
15	64QAM	36	20	17.00	17.08	17.07		
15	64QAM	36	39	17.06	17.03	17.01		
15	64QAM	75	0	17.06	17.01	16.99		
Channel								
Frequency (MHz)								
10	QPSK	1	0	17.04	17.09	16.79	18	0
10	QPSK	1	25	17.02	17.10	17.05		
10	QPSK	1	49	16.93	16.89	16.73		
10	QPSK	25	0	17.01	17.09	16.99		
10	QPSK	25	12	17.03	17.12	17.05		
10	QPSK	25	25	17.04	17.08	17.04		
10	QPSK	50	0	17.00	17.06	17.06		
10	16QAM	1	0	16.99	17.06	17.02		
10	16QAM	1	25	17.02	17.07	16.95		
10	16QAM	1	49	16.94	17.09	17.10		
10	16QAM	25	0	17.00	17.04	17.06		
10	16QAM	25	12	17.05	17.06	17.04		
10	16QAM	25	25	17.07	17.04	17.02		
10	16QAM	50	0	16.96	17.01	17.03		
10	64QAM	1	0	17.02	17.09	17.10		
10	64QAM	1	25	16.96	17.05	17.06		
10	64QAM	49	0	16.95	17.09	17.02		
10	64QAM	25	0	16.98	17.00	17.06		
10	64QAM	25	12	17.03	17.07	17.03		
10	64QAM	25	25	17.02	17.01	17.04		
10	64QAM	50	0	17.03	17.03	17.02		
Channel								
Frequency (MHz)								
5	QPSK	1	0	17.01	17.08	16.84	18	0
5	QPSK	1	12	17.11	17.12	17.12		
5	QPSK	1	24	16.93	16.86	16.74		
5	QPSK	12	0	17.02	17.08	16.98		
5	QPSK	12	7	17.02	17.12	17.08		
5	QPSK	12	13	17.03	17.04	17.05		
5	QPSK	25	0	16.99	17.03	17.10		
5	16QAM	1	0	17.03	17.05	17.01		
5	16QAM	1	12	17.01	16.96	16.89		
5	16QAM	1	24	16.99	17.09	17.01		
5	16QAM	12	0	17.01	17.13	17.10		
5	16QAM	12	7	17.05	17.08	17.03		
5	16QAM	12	13	17.05	17.08	17.05		
5	16QAM	25	0	17.06	17.10	17.02		
5	64QAM	1	0	17.05	17.04	17.02		
5	64QAM	1	12	17.05	17.02	17.03		
5	64QAM	1	24	17.01	17.04	17.11		
5	64QAM	12	0	17.06	17.02	17.07		
5	64QAM	12	7	16.97	17.04	17.10		
5	64QAM	12	13	17.06	17.05	17.01		
5	64QAM	25	0	17.01	17.06	17.04		
Channel								
Frequency (MHz)								
3	QPSK	1	0	17.00	17.07	16.83	18	0
3	QPSK	1	8	17.02	17.09	17.13		
3	QPSK	1	14	16.76	16.83	16.73		
3	QPSK	8	0	17.04	17.00	16.97		
3	QPSK	8	4	17.06	17.10	17.06		
3	QPSK	8	7	17.00	17.02	17.04		
3	QPSK	16	0	16.97	17.02	17.05		
3	16QAM	1	0	17.00	17.07	17.01		
3	16QAM	1	8	16.97	17.03	17.06		
3	16QAM	1	14	16.97	17.10	17.06		
3	16QAM	8	0	17.08	17.05	17.07		
3	16QAM	8	4	17.06	17.06	17.03		
3	16QAM	8	7	17.07	17.06	17.07		
3	16QAM	16	0	17.02	17.08	17.20		
3	64QAM	1	0	17.08	17.08	17.03		
3	64QAM	1	8	17.05	17.06	17.05		
3	64QAM	1	14	16.98	17.01	17.02		
3	64QAM	8	0	17.03	17.01	17.12		
3	64QAM	8	4	16.97	17.02	17.03		
3	64QAM	8	7	17.04	17.04	17.01		
3	64QAM	16	0	17.00	17.03	17.03		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	17.00	17.05	16.89	18	0
1.4	QPSK	1	3	17.09	17.07	17.09		
1.4	QPSK	1	5	16.76	16.85	16.77		
1.4	QPSK	3	0	17.04	17.06	17.03		
1.4	QPSK	3	1	17.05	17.03	17.03		
1.4	QPSK	3	3	17.04	17.09	17.07		
1.4	QPSK	6	0	17.02	17.05	17.03		
1.4	16QAM	1	0	17.03	17.02	17.04		
1.4	16QAM	1	3	17.03	16.99	16.96		
1.4	16QAM	1	5	17.03	17.05	17.05		
1.4	16QAM	3	0	17.08	17.11	17.08		
1.4	16QAM	3	1	17.00	17.05	17.05		
1.4	16QAM	3	3	16.99	17.10	17.03		
1.4	16QAM	6	0	17.02	17.10	17.01		
1.4	64QAM	1	0	17.00	17.04	17.03		
1.4	64QAM	1	3	17.06	17.12	17.09		
1.4	64QAM	1	5	16.97	17.03	17.07		
1.4	64QAM	3	0	17.01	16.96	17.11		
1.4	64QAM	3	1	16.97	17.10	17.03		
1.4	64QAM	3	3	17.03	17.03	17.11		
1.4	64QAM	6	0	17.02	17.04	16.97		

Band 66_Ant 31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.51	19.55	19.53	20.5	0
20	QPSK	1	49	19.51	19.55	19.53		
20	QPSK	1	99	19.50	19.37	19.40		
20	QPSK	50	0	19.50	19.68	19.71		
20	QPSK	50	24	19.51	19.54	19.73		
20	QPSK	50	50	19.67	19.69	19.70		
20	16QAM	1	0	19.70	19.73	19.72		
20	16QAM	1	49	19.70	19.72	19.74		
20	16QAM	1	99	19.77	19.70	19.73		
20	16QAM	50	0	19.62	19.64	19.76		
20	16QAM	50	24	19.72	19.69	19.68		
20	16QAM	100	0	19.72	19.80	19.80		
20	16QAM	50	50	19.67	19.69	19.57		
20	64QAM	1	0	19.75	19.58	19.74		
20	64QAM	1	49	19.50	19.66	19.59		
20	64QAM	1	99	19.74	19.88	19.62		
20	64QAM	50	0	19.68	19.69	19.72		
20	64QAM	50	24	19.67	19.66	19.78		
20	64QAM	50	50	19.80	19.70	19.68		
20	64QAM	100	0	19.57	19.70	19.75		
Channel								
Frequency (MHz)								
15	QPSK	1	0	19.44	19.46	19.48	20.5	0
15	QPSK	1	37	19.54	19.74	19.54		
15	QPSK	1	74	19.46	19.25	19.34		
15	QPSK	36	0	19.43	19.64	19.59		
15	QPSK	36	20	19.52	19.76	19.68		
15	QPSK	36	39	19.50	19.61	19.65		
15	QPSK	75	0	19.63	19.69	19.64		
15	16QAM	1	0	19.63	19.63	19.65		
15	16QAM	1	37	19.67	19.63	19.63		
15	16QAM	1	74	19.79	19.32	19.76		
15	16QAM	36	0	19.63	19.63	19.58		
15	16QAM	36	20	19.60	19.73	19.49		
15	16QAM	36	39	19.54	19.62	19.49		
15	16QAM	75	0	19.63	19.62	19.64		
15	64QAM	1	0</					



Band 38_Ant 13

Channel	Frequency (MHz)	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	Frequency (MHz)	37850	38000	38150		
20	QPSK	1	0	18.00	18.14	18.17
20	QPSK	1	49	18.33	18.40	18.38
20	QPSK	1	99	18.03	18.07	18.10
20	QPSK	50	0	18.29	18.13	18.26
20	QPSK	50	24	18.34	18.36	18.33
20	QPSK	50	50	18.32	18.20	18.32
20	QPSK	100	0	18.15	18.35	18.30
20	16QAM	1	0	18.17	18.27	18.29
20	16QAM	1	49	18.34	18.32	18.29
20	16QAM	1	99	18.32	18.29	18.34
20	16QAM	50	0	18.18	18.21	18.31
20	16QAM	50	24	18.25	18.27	18.25
20	16QAM	50	50	18.30	18.33	18.34
20	16QAM	100	0	18.18	18.31	18.31
20	64QAM	1	0	17.99	18.14	18.28
20	64QAM	1	49	18.26	18.34	18.25
20	64QAM	1	99	18.25	18.31	18.35
20	64QAM	50	0	18.13	18.29	18.31
20	64QAM	50	24	18.27	18.29	18.38
20	64QAM	50	50	18.21	18.35	18.28
20	64QAM	100	0	18.18	18.27	18.22
15	QPSK	1	0	17.57	18.12	18.14
15	QPSK	1	37	18.21	18.32	18.28
15	QPSK	1	74	17.95	18.00	18.11
15	QPSK	36	0	18.27	18.10	18.20
15	QPSK	36	20	18.22	18.30	18.26
15	QPSK	36	39	18.30	18.26	18.30
15	QPSK	75	0	18.10	18.30	18.21
15	16QAM	1	0	18.07	18.15	18.24
15	16QAM	1	37	18.23	18.25	18.20
15	16QAM	1	74	18.27	18.18	18.22
15	16QAM	36	0	18.09	18.13	18.27
15	16QAM	36	20	18.05	18.24	18.20
15	16QAM	36	39	18.21	18.24	18.31
15	16QAM	75	0	18.12	18.27	18.23
15	64QAM	1	0	17.88	18.03	18.18
15	64QAM	1	37	18.20	18.22	18.18
15	64QAM	1	74	18.21	18.19	18.25
15	64QAM	36	0	18.08	18.25	18.29
15	64QAM	36	20	18.25	18.17	18.25
15	64QAM	36	39	18.13	18.33	18.24
15	64QAM	75	0	18.09	18.25	18.13
10	QPSK	1	0	17.62	18.11	18.09
10	QPSK	1	25	18.31	18.34	18.32
10	QPSK	1	49	17.97	18.04	18.15
10	QPSK	25	0	18.24	18.02	18.18
10	QPSK	25	12	18.30	18.34	18.28
10	QPSK	25	25	18.23	18.24	18.23
10	16QAM	1	0	18.08	18.19	18.22
10	16QAM	1	25	18.27	18.23	18.23
10	16QAM	1	49	18.29	18.17	18.22
10	16QAM	25	0	18.04	18.18	18.27
10	16QAM	25	12	18.15	18.22	18.25
10	16QAM	25	25	18.23	18.24	18.20
10	16QAM	50	0	18.13	18.25	18.22
10	64QAM	1	0	17.89	18.11	18.22
10	64QAM	1	25	18.24	18.23	18.21
10	64QAM	1	49	18.20	18.24	18.26
10	64QAM	25	0	18.01	18.18	18.29
10	64QAM	25	12	18.18	18.18	18.25
10	64QAM	25	25	18.15	18.26	18.25
10	64QAM	50	0	18.15	18.10	18.12
5	QPSK	1	0	17.55	18.07	18.12
5	QPSK	1	12	18.24	18.38	18.32
5	QPSK	1	24	17.98	18.02	18.13
5	QPSK	12	0	18.19	18.01	18.14
5	QPSK	12	7	18.23	18.30	18.25
5	QPSK	12	13	18.29	18.20	18.20
5	16QAM	1	0	18.09	18.24	18.20
5	16QAM	1	12	18.30	18.29	18.23
5	16QAM	1	24	18.20	18.23	18.27
5	16QAM	12	0	18.09	18.19	18.23
5	16QAM	12	7	18.18	18.20	18.22
5	16QAM	12	13	18.19	18.36	18.29
5	16QAM	25	0	18.14	18.24	18.27
5	64QAM	1	0	17.98	18.06	18.22
5	64QAM	1	12	18.20	18.23	18.21
5	64QAM	1	24	18.15	18.28	18.27
5	64QAM	12	0	18.03	18.21	18.26
5	64QAM	12	7	18.20	18.28	18.34
5	64QAM	12	13	18.09	18.33	18.22
5	64QAM	25	0	18.10	18.21	18.17

Band 38_Ant 31

Channel	Frequency (MHz)	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	Frequency (MHz)	37850	38000	38150		
20	QPSK	1	0	23.16	23.26	23.21
20	QPSK	1	49	23.43	23.54	23.50
20	QPSK	1	99	23.30	23.07	23.32
20	QPSK	50	0	22.99	22.97	22.90
20	QPSK	50	24	23.06	23.10	23.05
20	QPSK	50	50	23.05	23.01	23.04
20	QPSK	100	0	23.08	23.09	23.04
20	16QAM	1	0	23.12	23.05	22.99
20	16QAM	1	49	23.37	23.36	23.24
20	16QAM	1	99	23.13	23.15	23.11
20	16QAM	50	0	22.05	22.02	21.97
20	16QAM	50	24	22.30	22.14	22.14
20	16QAM	50	50	22.14	22.19	22.11
20	16QAM	100	0	22.08	22.08	22.11
20	64QAM	1	0	22.03	21.62	21.61
20	64QAM	1	49	22.30	22.19	22.21
20	64QAM	1	99	22.08	22.05	22.04
20	64QAM	50	0	21.08	20.98	21.05
20	64QAM	50	24	21.28	21.12	21.16
20	64QAM	50	50	21.14	21.22	21.18
20	64QAM	100	0	21.11	21.11	21.18
15	QPSK	1	0	23.14	23.05	23.05
15	QPSK	1	37	23.35	23.49	23.47
15	QPSK	1	74	23.35	23.29	23.28
15	QPSK	36	0	22.99	22.89	22.85
15	QPSK	36	20	22.96	23.00	22.94
15	QPSK	36	39	22.92	22.88	22.95
15	QPSK	75	0	22.03	23.03	22.90
15	16QAM	1	0	23.01	22.99	22.85
15	16QAM	1	37	23.35	23.34	23.18
15	16QAM	1	74	23.02	23.13	23.02
15	16QAM	36	0	21.98	22.01	21.93
15	16QAM	36	20	22.15	22.07	22.10
15	16QAM	36	39	22.07	22.09	22.10
15	16QAM	75	0	21.99	22.03	21.99
15	64QAM	1	0	21.88	21.88	21.90
15	64QAM	1	37	22.24	22.18	22.18
15	64QAM	1	74	22.02	22.01	22.04
15	64QAM	36	0	21.01	20.80	21.02
15	64QAM	36	20	21.21	21.00	21.11
15	64QAM	36	39	21.10	21.21	21.14
15	64QAM	75	0	20.98	21.05	21.13
10	QPSK	1	0	22.75	22.65	22.65
10	QPSK	1	25	23.38	23.43	23.45
10	QPSK	1	49	23.35	23.33	23.24
10	QPSK	25	0	22.90	22.86	22.84
10	QPSK	25	12	23.00	23.00	22.95
10	QPSK	25	25	23.00	22.88	22.96
10	16QAM	1	0	23.09	22.96	22.87
10	16QAM	1	25	23.25	23.34	23.15
10	16QAM	1	49	23.05	23.04	23.08
10	16QAM	25	0	22.03	21.88	21.93
10	16QAM	25	12	22.15	22.03	22.14
10	16QAM	25	25	22.14	22.15	21.97
10	16QAM	50	0	22.04	22.02	22.07
10	64QAM	1	0	21.90	21.82	21.92
10	64QAM	1	25	22.30	22.08	22.11
10	64QAM	1	49	21.97	21.91	21.93
10	64QAM	25	0	20.96	20.85	21.05
10	64QAM	25	12	21.21	21.07	21.13
10	64QAM	25	25	21.03	21.08	21.13
10	64QAM	50	0	20.93	20.90	21.04
5	QPSK	1	0	23.12	23.15	23.10
5	QPSK	1	12	23.40	23.42	23.41
5	QPSK	1	24	23.30	23.29	23.24
5	QPSK	12	0	22.91	22.86	22.84
5	QPSK	12	7	23.08	23.04	23.05
5	QPSK	12	13	23.03	22.95	22.89
5	16QAM	1	0	23.08	23.02	22.95
5	16QAM	1	12	23.25	23.22	23.11
5	16QAM	1	24	22.99	23.08	22.99
5	16QAM	12	0	22.01	21.90	21.82
5	16QAM	12	7	22.14	22.06	22.09
5	16QAM	12	13	22.12	22.08	22.11
5	16QAM	25	0	22.07	21.97	22.02
5	64QAM	1	0	21.97	21.88	21.95
5	64QAM	1	12	22.26	22.18	22.11
5	64QAM	1	24	21.94	21.95	21.94
5	64QAM	12	0	20.97	20.85	20.99
5	64QAM	12	7	21.15	21.04	21.03
5	64QAM	12	13	21.05	21.20	21.08
5	64QAM	25	0	21.01	21.06	21.13



Band 41_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Tuneup limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
39750	40185	40620	41055	41490						
20	QPSK	1	0	17.00	17.05	17.24	16.98	16.98	18	0
20	QPSK	1	49	17.35	17.20	17.41	17.40	17.35		
20	QPSK	50	0	17.00	17.05	17.17	17.20	17.17	18	0
20	QPSK	50	24	17.35	17.15	17.39	17.30	17.34		
20	QPSK	50	50	17.01	17.08	17.21	17.13	17.17	18	0
20	QPSK	100	0	17.13	17.08	17.38	17.28	17.18		
20	16QAM	1	0	17.24	17.11	17.37	17.20	17.10	18	0
20	16QAM	1	49	17.46	17.07	17.35	17.30	17.40		
20	16QAM	1	99	17.24	17.19	17.23	17.31	17.18	18	0
20	16QAM	50	0	17.11	17.20	17.31	17.34	17.15		
20	16QAM	50	24	17.19	17.08	17.15	17.27	17.02	18	0
20	16QAM	50	50	17.16	17.16	17.28	17.29	17.12		
20	16QAM	100	0	17.18	17.14	17.34	17.33	17.12	18	0
20	16QAM	1	0	17.19	17.08	17.29	17.25	17.17		
20	64QAM	1	49	17.22	17.14	17.30	17.34	17.13	18	0
20	64QAM	1	99	17.19	17.18	17.34	17.27	17.13		
20	64QAM	50	0	18.97	17.08	17.15	17.04	17.20	18	0
20	64QAM	50	24	17.08	17.12	17.30	17.28	17.22		
20	64QAM	50	50	17.25	17.18	17.30	17.24	17.11	18	0
20	64QAM	100	0	17.19	17.08	17.24	17.00	17.18		
Channel										
Frequency (MHz)										
39725	40173	40620	41068	41515						
15	QPSK	1	0	18.95	17.07	17.16	16.91	16.84	18.00	0
15	QPSK	1	37	17.31	17.18	17.31	17.33	17.23		
15	QPSK	1	74	16.94	16.87	17.14	17.11	17.10	18	0
15	QPSK	36	0	16.96	16.92	17.10	17.08	17.21		
15	QPSK	36	20	17.23	17.00	17.34	17.28	17.23	18	0
15	QPSK	36	39	16.96	16.98	17.16	17.11	17.12		
15	QPSK	36	39	17.04	17.04	17.32	17.22	17.12	18	0
15	QPSK	36	20	17.12	17.03	17.33	17.10	17.07		
15	16QAM	1	0	17.06	17.04	17.33	17.25	17.04	18	0
15	16QAM	1	74	16.93	17.16	17.21	17.29	17.08		
15	16QAM	36	0	17.05	17.13	17.20	17.31	17.03	18	0
15	16QAM	36	20	17.00	16.98	17.24	17.00	17.00		
15	16QAM	36	39	17.07	17.07	17.14	17.19	17.08	18	0
15	16QAM	75	0	17.13	17.05	17.27	17.29	17.00		
15	64QAM	1	0	17.07	16.96	17.23	17.33	17.11	18	0
15	64QAM	1	37	17.11	17.12	17.28	17.03	17.03		
15	64QAM	1	74	17.16	17.12	17.23	17.25	17.10	18	0
15	64QAM	36	0	16.97	17.09	17.08	17.02	17.15		
15	64QAM	36	20	17.03	17.05	17.28	17.17	17.14	18	0
15	64QAM	36	39	17.17	17.07	17.23	17.13	17.02		
15	64QAM	75	0	17.17	17.01	17.15	16.95	17.07	18	0
15	64QAM	36	39	17.17	17.07	17.23	17.13	17.02		
Channel										
Frequency (MHz)										
39700	40160	40620	41060	41540						
10	QPSK	1	0	16.95	17.00	17.21	16.94	16.90	18.00	0
10	QPSK	1	25	17.24	17.16	17.35	17.37	17.23		
10	QPSK	1	49	16.88	16.95	17.06	17.14	17.04	18	0
10	QPSK	25	0	16.97	16.90	17.08	17.12	17.23		
10	QPSK	25	12	17.33	17.04	17.34	17.18	17.28	18	0
10	QPSK	25	25	16.96	16.98	17.14	17.05	17.05		
10	QPSK	50	0	17.08	17.02	17.31	17.14	17.14	18	0
10	16QAM	1	0	17.14	17.03	17.34	17.12	17.01		
10	16QAM	1	25	17.05	17.02	17.30	17.25	17.01	18	0
10	16QAM	1	49	17.07	17.09	17.24	17.29	17.07		
10	16QAM	25	0	17.13	16.98	17.24	17.25	17.09	18	0
10	16QAM	25	12	17.12	17.11	17.15	17.24	17.08		
10	16QAM	50	0	17.08	17.04	17.30	17.23	17.03	18	0
10	16QAM	1	0	17.14	17.03	17.17	17.23	17.10		
10	64QAM	1	0	17.07	16.96	17.23	17.33	17.11	18	0
10	64QAM	1	49	17.08	17.07	17.28	17.19	17.05		
10	64QAM	25	0	16.91	17.05	17.05	16.98	17.10	18	0
10	64QAM	25	12	16.98	17.02	17.18	17.17	17.20		
10	64QAM	25	25	17.18	17.15	17.26	17.16	17.03	18	0
10	64QAM	50	0	17.07	17.06	17.19	16.90	17.13		
Channel										
Frequency (MHz)										
2685	2545	2503	2640	2687						
5	QPSK	1	0	16.95	16.98	17.16	16.92	16.85	18.00	0
5	QPSK	1	12	17.26	17.09	17.34	17.38	17.24		
5	QPSK	1	24	16.90	16.93	17.13	17.19	17.12	18	0
5	QPSK	12	0	17.06	16.94	17.09	17.15	17.22		
5	QPSK	12	13	16.95	16.88	17.15	17.04	17.08	18	0
5	QPSK	25	0	17.11	16.97	17.20	17.13	17.13		
5	16QAM	1	0	17.17	17.09	17.33	17.11	17.07	18	0
5	16QAM	1	12	17.07	17.05	17.33	17.25	17.01		
5	16QAM	12	0	17.02	17.12	17.24	17.32	17.07	18	0
5	16QAM	12	7	17.10	16.94	17.27	17.17	17.03		
5	16QAM	12	13	17.06	17.13	17.20	17.07	17.10	18	0
5	16QAM	25	0	17.18	17.07	17.23	17.21	17.01		
5	64QAM	1	0	17.09	16.97	17.20	17.23	17.14	18	0
5	64QAM	1	12	17.18	17.11	17.27	17.34	17.08		
5	64QAM	1	24	17.10	17.13	17.26	17.21	17.08	18	0
5	64QAM	12	0	16.88	16.96	17.05	17.00	17.13		
5	64QAM	12	7	17.03	17.01	17.18	17.19	17.13	18	0
5	64QAM	12	13	17.13	17.14	17.21	17.12	17.04		
5	64QAM	25	0	17.11	17.00	17.20	16.89	17.15	18	0
5	64QAM	25	0	17.11	17.00	17.20	16.89	17.15		

Band 41_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Tuneup limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
39750	40185	40620	41055	41490						
20	QPSK	1	0	23.33	23.26	23.31	23.25	23.33	24	0
20	QPSK	1	49	23.45	23.43	23.56	23.37	23.43		
20	QPSK	50	0	23.21	23.36	23.23	23.25	23.21	23.5	0.5
20	QPSK	50	24	23.05	23.08	23.10	23.07	23.04		
20	QPSK	50	50	22.98	23.05	23.05	22.98	22.98	23.5	0.5
20	QPSK	100	0	22.90	22.98	22.99	22.97	22.88		
20	16QAM	1	0	22.95	23.06	23.08	22.93	23.00	23.5	0.5
20	16QAM	1	49	23.21	23.36	23.23	23.25	23.21		
20	16QAM	1	99	23.03	23.17	23.08	23.06	22.98	23.5	1.5
20	16QAM	50	0	21.89	21.98	22.03	21.94	22.05		
20	16QAM	50	24	22.04	22.12	22.10	22.12	22.07	23.5	1.5
20	16QAM	50	50	22.15	22.09	22.04	22.07	21.90		
20	16QAM	100	0	21.96	22.07	22.07	22.02	21.90	22.5	1.5
20	16QAM	1	0	21.98	21.98	21.95	21.94	21.94		
20	64QAM	1	49	22.11	22.23	22.17	22.13	22.15	22.5	1.5
20	64QAM	1	99	21.96	22.06	22.02	21.98	21.92		
20	64QAM	50	0	20.87	20.97	21.02	20.92	21.02	21.5	2.5
20	64QAM	50	24	21.02	21.16	21.12	21.18	21.04		
20	64QAM	50	50	21.04	21.12	21.08	21.10	20.95	21.5	2.5
20	64QAM	100	0	21.02	21.07	21.07	21.01	21.02		
Channel										
Frequency (MHz)										
39725	40173	40620	41068	41515						
15	QPSK	1	0	23.24	23.17	23.07	23.21	23.23	24.00	0
15	QPSK	1	37	23.33	23.38	23.44	23.26	23.38		
15	QPSK	1	74	23.27	23.33	23.31	23.30	23.38	23.5	0.5
15	QPSK	36	0	22.86	22.92	22.85	22.87	22.89		
15	QPSK	36	20	23.02	23.07	23.09	23.			



Reduced Power Mode for DSI7

<GSM>

TX Channel	Burst Average Power (dBm)			Tune-up Limit	Frame-Average Power (dBm)			Tune-up Limit
	128	189	251		128	189	251	
Frequency (MHz)	812.2	894.2	944.8	(dBm)	812.2	894.2	944.8	(dBm)
GSM 1 Tx slot	32.71	32.75	32.70	34.00	23.71	23.75	23.70	25.00
GPRS/EDGE(GMSK) 1 Tx slot	32.70	32.73	32.68	34.00	23.70	23.73	23.68	25.00
GPRS/EDGE(GMSK) 2 Tx slots	33.60	33.64	33.62	35.00	24.60	24.64	24.62	26.00
GPRS/EDGE(GMSK) 3 Tx slots	29.10	29.14	29.04	30.00	24.84	24.88	24.78	25.74
GPRS/EDGE(GMSK) 4 Tx slots	26.94	26.93	26.88	28.00	23.94	23.93	23.88	25.00
EDGE 1 Tx slot	26.86	26.88	26.85	29.00	17.89	17.88	17.85	19.00
EDGE 2 Tx slots	25.01	25.02	24.87	26.00	19.01	19.02	18.87	20.00
EDGE 3 Tx slots	22.75	22.89	22.77	24.00	18.49	18.63	18.51	18.74
EDGE 4 Tx slots	20.45	20.35	20.37	22.00	17.45	17.35	17.37	19.00

TX Channel	Burst Average Power (dBm)			Tune-up Limit	Frame-Average Power (dBm)			Tune-up Limit
	152	161	190		152	161	190	
Frequency (MHz)	1850.2	1860	1909.8	(dBm)	1850.2	1860	1909.8	(dBm)
GSM 1 Tx slot	30.15	30.01	30.02	31.00	21.19	21.01	21.12	22.00
GPRS/EDGE(GMSK) 1 Tx slot	30.17	30.02	30.03	31.00	21.17	21.02	21.09	22.00
GPRS/EDGE(GMSK) 2 Tx slots	27.58	27.41	27.51	28.50	21.58	21.41	21.51	22.50
GPRS/EDGE(GMSK) 3 Tx slots	26.54	26.55	26.50	27.00	22.29	22.29	22.24	22.74
GPRS/EDGE(GMSK) 4 Tx slots	24.57	24.39	24.50	25.50	21.57	21.38	21.50	22.50
EDGE 1 Tx slot	26.18	26.20	26.10	27.00	17.18	17.20	17.10	18.00
EDGE 2 Tx slots	24.44	24.41	24.38	25.00	18.44	18.41	18.38	19.00
EDGE 3 Tx slots	22.77	22.61	22.47	23.50	18.51	18.35	18.21	19.24
EDGE 4 Tx slots	20.69	20.57	20.50	21.50	17.69	17.57	17.50	18.50

<WCDMA>

Band	TX Channel	WCDMA II, Ant 13			Tune-up Limit	WCDMA IV, Ant 13			Tune-up Limit	WCDMA V, Ant 13			Tune-up Limit
		9262	9400	9538		1312	1413	1513		4132	4162	4233	
3GPP Rel 99	AMR 12.2Kbps	23.59	23.61	23.60	24.50	23.36	23.42	23.38	24.50	23.23	23.30	23.28	24.50
3GPP Rel 99	AMR 12.2Kbps	23.60	23.62	23.61	24.50	23.38	23.50	23.40	24.50	23.25	23.32	23.30	24.50
3GPP Rel 6	HSDPA Subtest-1	22.68	22.61	22.71	23.50	22.42	22.48	22.40	23.50	22.37	22.39	22.47	23.50
3GPP Rel 6	HSDPA Subtest-2	22.54	22.56	22.67	23.50	22.51	22.46	22.42	23.50	22.40	22.42	22.25	23.50
3GPP Rel 6	HSDPA Subtest-3	22.06	22.06	22.11	23.00	21.86	21.86	21.88	23.00	21.85	21.88	21.72	23.00
3GPP Rel 6	HSDPA Subtest-4	22.12	22.01	22.06	23.00	22.06	21.85	22.00	23.00	21.91	21.93	21.70	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.66	22.55	22.67	23.50	22.36	22.43	22.38	23.50	22.30	22.35	22.41	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.52	22.53	22.62	23.50	22.48	22.44	22.38	23.50	22.30	22.40	22.25	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.03	22.03	22.09	23.00	21.89	21.81	21.93	23.00	21.68	21.94	21.69	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.06	21.84	22.04	23.00	22.04	21.81	21.96	23.00	21.85	21.88	21.67	23.00
3GPP Rel 6	HSUPA Subtest-1	20.70	20.63	20.67	21.50	20.39	20.46	20.44	21.50	21.39	21.46	21.46	22.50
3GPP Rel 6	HSUPA Subtest-2	20.73	20.68	20.65	21.50	20.41	20.43	20.38	21.50	21.37	21.42	21.41	22.50
3GPP Rel 6	HSUPA Subtest-3	21.71	21.64	21.75	22.50	21.43	21.47	21.45	22.50	22.38	22.35	22.40	23.50
3GPP Rel 6	HSUPA Subtest-4	20.08	20.21	20.28	21.00	19.94	20.01	19.99	21.00	20.83	20.85	20.90	22.00
3GPP Rel 6	HSUPA Subtest-5	21.80	21.60	21.60	22.50	21.37	21.40	21.38	22.50	22.27	22.27	22.30	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.65	20.74	20.62	21.50	20.45	20.50	20.54	21.50	21.35	21.44	21.40	22.50



Band 2_Ant 13

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple channel frequency blocks for various modulation types (QPSK, 16QAM, 64QAM) and RB sizes.

Band 4_Ant 13

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple channel frequency blocks for various modulation types (QPSK, 16QAM, 64QAM) and RB sizes.



Band 5_Ant 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								
Frequency (MHz)								
10	QPSK	1	0	23.08	23.19	23.03	24.5	0
10	QPSK	1	25	23.11	23.11	22.96		
10	QPSK	1	49	23.11	23.11	22.96		
10	QPSK	25	0	22.03	22.13	22.09	23.5	1
10	QPSK	25	12	22.03	22.04	22.13		
10	QPSK	25	25	22.02	22.10	22.03		
10	QPSK	50	0	22.15	22.20	22.18	23.5	1
10	16QAM	1	0	22.55	22.70	22.87		
10	16QAM	1	25	22.76	22.77	22.75		
10	16QAM	1	49	22.59	22.73	22.80	22.5	2
10	16QAM	25	0	21.07	21.07	20.95		
10	16QAM	25	12	21.29	21.31	21.31		
10	16QAM	25	25	20.93	21.04	20.98	22.5	2
10	16QAM	50	0	21.07	21.11	21.02		
10	16QAM	1	0	21.49	21.50	21.39		
10	64QAM	1	25	21.53	21.54	21.49	22.5	2
10	64QAM	1	49	21.40	21.46	21.45		
10	64QAM	25	0	20.18	20.19	20.16		
10	64QAM	25	12	20.52	20.47	20.20	21.5	3
10	64QAM	25	25	20.04	20.14	20.03		
10	64QAM	50	0	20.17	20.22	20.16		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.04	23.05	22.90	24.5	0
5	QPSK	1	12	23.17	23.08	22.95		
5	QPSK	1	24	23.02	23.06	22.91		
5	QPSK	12	0	21.99	22.07	21.98	23.5	1
5	QPSK	12	7	22.08	22.23	22.08		
5	QPSK	12	13	21.92	22.00	22.00		
5	QPSK	25	0	22.06	22.07	22.05	23.5	1
5	16QAM	1	0	22.50	22.61	22.58		
5	16QAM	1	12	22.74	22.73	22.75		
5	16QAM	1	24	22.57	22.58	22.48	22.5	2
5	16QAM	12	0	20.90	20.99	20.92		
5	16QAM	12	7	21.29	21.19	21.17		
5	16QAM	12	13	20.83	20.90	20.91	22.5	2
5	16QAM	25	0	20.95	20.98	20.95		
5	64QAM	1	0	21.47	21.47	21.29		
5	64QAM	1	12	21.52	21.52	21.46	22.5	2
5	64QAM	1	24	21.30	21.38	21.45		
5	64QAM	12	0	20.09	20.07	20.12		
5	64QAM	12	7	20.13	20.12	20.11	21.5	3
5	64QAM	12	13	19.94	20.03	19.99		
5	64QAM	25	0	20.08	20.13	20.11		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.93	23.05	22.90	24.5	0
3	QPSK	1	8	23.17	23.09	23.06		
3	QPSK	1	14	23.02	23.11	22.90		
3	QPSK	8	0	21.93	22.10	21.99	23.5	1
3	QPSK	8	4	22.17	22.16	22.14		
3	QPSK	8	7	21.91	22.09	21.90		
3	QPSK	15	0	22.06	22.16	22.14	23.5	1
3	16QAM	1	0	22.40	22.70	22.63		
3	16QAM	1	8	22.65	22.74	22.69		
3	16QAM	1	14	22.45	22.70	22.46	22.5	2
3	16QAM	8	0	21.00	21.00	20.93		
3	16QAM	8	4	21.28	21.24	21.21		
3	16QAM	8	7	20.87	21.01	20.84	22.5	2
3	16QAM	15	0	20.94	21.04	20.87		
3	16QAM	1	0	21.48	21.48	21.30		
3	64QAM	1	8	21.51	21.50	21.43	22.5	2
3	64QAM	1	14	21.32	21.33	21.32		
3	64QAM	8	0	20.06	20.10	20.04		
3	64QAM	8	4	20.07	20.15	20.17	21.5	3
3	64QAM	8	7	20.04	20.08	19.99		
3	64QAM	15	0	20.02	20.11	20.02		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.03	23.10	23.00	24.5	0
1.4	QPSK	1	3	23.20	23.09	23.02		
1.4	QPSK	1	5	23.05	23.07	22.98		
1.4	QPSK	3	0	23.08	23.08	22.89	23.5	1
1.4	QPSK	3	1	23.02	22.98	22.84		
1.4	QPSK	3	3	23.09	23.08	22.98		
1.4	QPSK	6	0	22.04	22.17	22.04	23.5	1
1.4	16QAM	1	0	22.43	22.68	22.62		
1.4	16QAM	1	3	22.67	22.68	22.74		
1.4	16QAM	1	5	22.57	22.62	22.45	22.5	1
1.4	16QAM	3	0	22.46	22.66	22.55		
1.4	16QAM	3	1	22.43	22.58	22.56		
1.4	16QAM	3	3	22.52	22.64	22.54	22.5	2
1.4	16QAM	6	0	21.07	21.00	20.99		
1.4	16QAM	1	0	21.47	21.35	21.31		
1.4	64QAM	1	3	21.47	21.44	21.43	22.5	2
1.4	64QAM	1	5	21.31	21.45	21.41		
1.4	64QAM	3	0	21.07	21.09	20.99		
1.4	64QAM	3	1	21.07	21.08	21.01	21.5	3
1.4	64QAM	3	3	21.05	20.99	21.02		
1.4	64QAM	15	0	20.15	20.15	20.14		

Band 7_Ant 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								
Frequency (MHz)								
20	QPSK	1	0	21.19	21.13	21.01	22	0
20	QPSK	1	49	21.07	21.13	21.16		
20	QPSK	1	99	21.27	21.33	21.16		
20	QPSK	50	0	21.26	21.32	21.16	22	0
20	QPSK	50	24	21.35	21.35	21.32		
20	QPSK	50	50	21.31	21.28	21.18		
20	QPSK	100	0	21.30	21.31	21.23	22	0
20	16QAM	1	0	21.30	21.38	21.31		
20	16QAM	1	49	21.36	21.34	21.28		
20	16QAM	1	99	21.35	21.11	21.15	22	0
20	16QAM	50	0	21.26	21.34	21.18		
20	16QAM	50	24	21.29	21.36	21.31		
20	16QAM	50	50	21.31	21.21	21.21	22	0
20	16QAM	100	0	21.27	21.31	21.23		
20	16QAM	1	0	21.32	21.30	21.33		
20	64QAM	1	49	21.28	21.28	21.28	22	0
20	64QAM	50	0	21.35	21.28	21.31		
20	64QAM	50	0	20.40	20.31	20.18		
20	64QAM	50	25	20.54	20.56	20.36	21	1
20	64QAM	50	50	20.45	20.32	20.35		
20	64QAM	100	0	20.42	20.39	20.24		
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.13	21.07	20.88	22	0
15	QPSK	1	37	21.30	21.29	21.24		
15	QPSK	1	74	21.23	21.31	21.10		
15	QPSK	38	0	21.14	21.22	21.09	22	0
15	QPSK	38	20	21.28	21.28	21.28		
15	QPSK	38	39	21.23	21.25	21.08		
15	QPSK	75	0	21.28	21.28	21.13	22	0
15	16QAM	1	0	21.19	21.19	21.28		
15	16QAM	1	37	21.28	21.32	21.23		
15	16QAM	1	74	21.25	21.03	21.05	22	0
15	16QAM	38	0	21.24	21.31	21.07		
15	16QAM	38	20	21.25	21.30	21.23		
15	16QAM	38	39	21.28	21.19	21.31	22	0
15	16QAM	75	0	21.25	21.21	21.15		
15	64QAM	1	0	21.22	21.15	21.23		
15	64QAM	1	37	21.26	21.25	21.21	22	0
15	64QAM	1	74	21.24	21.21	21.22		
15	64QAM	38	0	20.37	20.30	20.10		
15	64QAM	38	20	20.47	20.33	20.33	21	1
15	64QAM	38	39	20.42	20.10	20.25		
15	64QAM	75	0	20.32	20.37	20.12		
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.13	21.02	20.94	22	0
10	QPSK	1	25	21.23	21.28	21.24		
10	QPSK	1	49	21.22	21.21	21.08		
10	QPSK	25	0	21.14	21.21	21.09	22	0
10	QPSK	25	12	21.30	21.27	21.20		
10	QPSK	25	25	21.26	21.24	21.15		
10	QPSK	50	0	21.26	21.20	21.15	22	0
10	16QAM	1	0	21.22	21.38	21.23		
10	16QAM	1	25	21.30	21.29	21.18		
10	16QAM	1	49	21.31	21.00	21.05	22	0
10	16QAM	25	0	21.22	21.32	21.09		
10	16QAM	25	12	21.17	21.33	21.25		
10	16QAM	25	25	21.21	21.15	21.28	22	0
10	16QAM	50	0	21.19	21.24	21.12		
10	16QAM	50	0	21.28	21.30	21.30		
10	64QAM	1	0	21.17	21.21	21.21	22	0
10	64QAM	1	25	21.19	21.24	21.12		
10	64QAM	1	49	21.26	21.14	21.27		
10	64QAM	25	0	20.32	20.39	20.07	21	1
10	64QAM	25	12	20.47	20.31	20.36		
10	64QAM	25	25	20.42	20.12	20.27</		



Band 12_Ant 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								
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.80	22.72	22.84	24	0
10	QPSK	1	25	22.80	22.72	22.84		
10	QPSK	1	49	22.83	22.85	22.85		
10	QPSK	25	0	21.86	21.83	21.80	23	1
10	QPSK	25	12	21.86	21.83	21.80		
10	QPSK	25	25	21.80	21.87	21.83		
10	QPSK	50	0	21.79	21.98	21.95	23	1
10	16QAM	1	0	21.74	22.37	22.08		
10	16QAM	1	25	22.11	22.11	22.57		
10	16QAM	1	49	22.92	22.93	22.12	22	2
10	16QAM	25	0	20.72	20.98	20.84		
10	16QAM	25	12	21.00	20.92	20.94		
10	16QAM	25	25	20.96	20.92	20.79	22	2
10	16QAM	50	0	20.84	20.88	20.93		
10	16QAM	50	0	20.88	21.22	21.22		
10	64QAM	1	25	21.37	21.40	21.35	22	2
10	64QAM	1	49	21.33	21.14	20.96		
10	64QAM	25	0	19.82	19.93	19.86		
10	64QAM	25	12	20.10	20.06	19.99	21	3
10	64QAM	25	25	19.99	19.94	19.94		
10	64QAM	50	0	19.95	19.94	20.00		
Channel				701.5	707.5	713.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.73	22.64	22.76	24	0
5	QPSK	1	12	22.83	22.86	22.87		
5	QPSK	1	24	22.99	22.71	22.77		
5	QPSK	12	0	21.54	21.74	21.85	23	1
5	QPSK	12	7	21.86	21.74	21.85		
5	QPSK	12	13	21.69	21.84	21.73		
5	QPSK	25	0	21.71	21.98	21.85	23	1
5	16QAM	1	0	21.72	22.32	22.03		
5	16QAM	1	12	21.97	22.08	22.45		
5	16QAM	1	24	22.41	22.41	22.07	22	2
5	16QAM	12	0	20.86	20.83	20.71		
5	16QAM	12	7	20.91	20.92	20.79		
5	16QAM	12	13	20.90	20.92	20.86	22	2
5	16QAM	25	0	20.10	20.18	20.23		
5	64QAM	1	0	20.84	21.10	21.12		
5	64QAM	1	12	21.28	21.27	21.33	22	2
5	64QAM	1	24	21.11	21.09	20.95		
5	64QAM	12	0	19.82	19.80	19.84		
5	64QAM	12	7	19.97	19.98	19.88	21	3
5	64QAM	12	13	19.97	19.89	19.80		
5	64QAM	25	0	19.83	19.89	19.85		
Channel				230.25	230.95	231.65	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				230.25	230.95	231.65		
3	QPSK	1	0	22.77	22.62	22.78	24	0
3	QPSK	1	8	22.91	22.98	22.78		
3	QPSK	1	14	22.78	22.75	22.60		
3	QPSK	8	0	21.83	21.80	21.74	23	1
3	QPSK	8	4	21.85	21.75	21.75		
3	QPSK	8	7	21.97	21.82	21.74		
3	QPSK	15	0	21.78	21.85	21.90	23	1
3	16QAM	1	0	21.70	22.28	22.04		
3	16QAM	1	8	21.96	22.06	22.54		
3	16QAM	1	14	22.46	22.38	22.08	22	2
3	16QAM	8	0	20.57	20.80	20.72		
3	16QAM	8	4	20.67	20.81	20.90		
3	16QAM	8	7	20.94	20.88	20.79	22	2
3	16QAM	15	0	20.62	20.82	20.90		
3	64QAM	1	0	20.90	21.16	21.13		
3	64QAM	1	8	21.37	21.30	21.23	22	2
3	64QAM	1	14	21.33	21.02	20.84		
3	64QAM	8	0	19.67	19.88	19.83		
3	64QAM	8	4	20.04	19.94	19.85	21	3
3	64QAM	8	7	19.86	19.89	19.84		
3	64QAM	15	0	19.88	19.93	19.90		
Channel				230.17	230.95	231.73	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				230.17	230.95	231.73		
1.4	QPSK	1	0	22.70	22.74	22.81	24	0
1.4	QPSK	1	3	22.80	22.81	22.85		
1.4	QPSK	1	5	22.80	22.85	22.72		
1.4	QPSK	3	0	22.79	22.82	22.71	23	1
1.4	QPSK	3	1	22.69	22.83	22.74		
1.4	QPSK	3	3	22.81	22.82	22.70		
1.4	QPSK	6	0	21.82	21.87	21.88	23	1
1.4	16QAM	1	0	22.27	21.89	21.92		
1.4	16QAM	1	3	22.16	22.18	21.95		
1.4	16QAM	1	5	21.94	21.97	21.87	23	1
1.4	16QAM	3	0	21.70	21.77	21.79		
1.4	16QAM	3	1	21.83	21.93	21.91		
1.4	16QAM	3	3	21.84	21.73	21.92	22	2
1.4	16QAM	6	0	21.07	21.05	20.99		
1.4	16QAM	1	0	21.25	21.03	20.85		
1.4	64QAM	1	3	21.24	20.89	20.94	22	2
1.4	64QAM	1	5	20.90	21.05	21.19		
1.4	64QAM	3	0	20.95	21.23	21.24		
1.4	64QAM	3	1	21.10	20.76	21.13	21	3
1.4	64QAM	3	3	21.07	21.12	20.99		
1.4	64QAM	15	0	19.95	19.95	19.94		

Band 13_Ant 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								
Frequency (MHz)				762	762	762		
10	QPSK	1	0			23.01	24	0
10	QPSK	1	25			23.05		
10	QPSK	1	49			22.98		
10	QPSK	25	0			21.80	23	1
10	QPSK	25	12			21.88		
10	QPSK	25	25			21.89		
10	QPSK	50	0			21.90	23	1
10	16QAM	1	0			22.25		
10	16QAM	1	25			22.37		
10	16QAM	1	49			22.43	22	2
10	16QAM	25	0			20.98		
10	16QAM	25	12			21.15		
10	16QAM	25	25			20.98	22	2
10	16QAM	50	0			20.98		
10	16QAM	50	0			21.15		
10	64QAM	1	25			21.08	22	2
10	64QAM	1	49			21.32		
10	64QAM	25	0			19.90		
10	64QAM	25	12			20.08	21	3
10	64QAM	25	25			19.94		
10	64QAM	50	0			19.85		
Channel				228.05	232.00	232.05	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				228.05	232.00	232.05		
5	QPSK	1	0	22.99	22.95	22.98	24	0
5	QPSK	1	12	22.86	22.92	22.93		
5	QPSK	1	24	22.97	22.83	22.98		
5	QPSK	12	0	21.79	21.72	21.78	23	1
5	QPSK	12	7	21.90	21.97	21.89		
5	QPSK	12	13	21.84	21.78	21.89		
5	QPSK	25	0	21.88	21.77	21.84	23	1
5	16QAM	1	0	22.21	22.20	22.12		
5	16QAM	1	12	22.37	22.29	22.27		
5	16QAM	1	24	22.32	22.28	22.37	22	2
5	16QAM	12	0	20.72	20.84	20.73		
5	16QAM	12	7	21.01	21.11	21.10		
5	16QAM	12	13	20.88	20.83	20.88	22	2
5	16QAM	25	0	20.80	20.88	20.85		
5	64QAM	1	0	21.00	21.10	21.07		
5	64QAM	1	12	21.06	21.04	21.06	22	2
5	64QAM	1	24	21.22	21.18	21.24		
5	64QAM	12	0	19.90	19.82	19.89		
5	64QAM	12	7	20.02	19.97	20.02	21	3
5	64QAM	12	13	19.81	19.85	19.84		
5	64QAM	25	0	19.80	19.80	19.76		



Band 17_Ant 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								
Frequency (MHz)				23760	23760	23800		
10	QPSK	1	0	22.73	22.85	22.86	24	0
10	QPSK	1	25	22.86	22.85	22.86		
10	QPSK	1	49	22.86	22.86	22.83		
10	QPSK	25	0	21.80	21.77	21.72	23	1
10	QPSK	25	12	21.83	21.80	21.83		
10	QPSK	25	25	21.81	21.84	21.75		
10	QPSK	50	0	21.81	21.86	21.78	23	1
10	16QAM	1	0	22.08	22.04	22.35		
10	16QAM	1	25	22.49	22.05	22.05		
10	16QAM	1	49	22.35	22.05	22.23	22	2
10	16QAM	25	0	20.86	20.82	20.77		
10	16QAM	25	12	20.88	20.84	20.87		
10	16QAM	25	25	21.00	20.84	20.84	22	2
10	16QAM	50	0	20.81	20.83	20.83		
10	64QAM	1	0	21.19	21.18	21.14		
10	64QAM	1	25	21.39	21.27	21.21	22	2
10	64QAM	1	49	21.12	21.16	21.09		
10	64QAM	25	0	19.84	19.88	19.89		
10	64QAM	25	12	20.00	19.82	19.98	21	3
10	64QAM	25	25	19.95	19.88	19.78		
10	64QAM	50	0	19.86	19.88	19.83		
Channel				23760	23760	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				709.5	710	713.5		
5	QPSK	1	0	22.58	22.72	22.86	24	0
5	QPSK	1	12	22.87	22.86	22.86		
5	QPSK	1	24	22.74	22.76	22.85		
5	QPSK	12	0	21.74	21.7	21.67	23	1
5	QPSK	12	7	21.75	21.78	21.8		
5	QPSK	12	13	21.69	21.81	21.73		
5	QPSK	25	0	21.76	21.82	21.65	23	1
5	16QAM	1	0	22.04	22.01	22.28		
5	16QAM	1	12	22.48	22.05	22.1		
5	16QAM	1	24	22.22	22.03	22.14	22	2
5	16QAM	12	0	20.79	20.89	20.74		
5	16QAM	12	7	20.79	20.93	20.73		
5	16QAM	12	13	20.91	20.72	20.82	22	2
5	16QAM	25	0	20.76	20.68	20.68		
5	64QAM	1	0	21.11	21.09	21.09		
5	64QAM	1	12	21.32	21.18	21.07	22	2
5	64QAM	1	24	21.06	21.12	21.06		
5	64QAM	12	0	19.87	19.73	19.76		
5	64QAM	12	7	19.98	19.85	19.84	21	3
5	64QAM	12	13	19.8	19.77	19.71		
5	64QAM	25	0	19.71	19.75	19.79		

Band 18_Ant 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								
Frequency (MHz)				23825	23825	23850		
15	QPSK	1	0		22.97		24.5	0
15	QPSK	1	37		23.20			
15	QPSK	1	74		23.00			
15	QPSK	36	0		22.12		23.5	1
15	QPSK	36	20		22.31			
15	QPSK	36	39		22.25			
15	QPSK	75	0		22.23		23.5	1
15	16QAM	1	0		22.24			
15	16QAM	1	37		22.51			
15	16QAM	1	74		22.53		22.5	2
15	16QAM	36	0		21.17			
15	16QAM	36	20		21.27			
15	16QAM	36	39		21.16		22.5	2
15	16QAM	75	0		21.08			
15	64QAM	1	0		21.17			
15	64QAM	1	37		21.38		22.5	2
15	64QAM	1	74		21.01			
15	64QAM	36	0		20.24			
15	64QAM	36	20		20.19		21.5	3
15	64QAM	36	39		20.25			
15	64QAM	75	0		20.16			
Channel				23850	23825	23850	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				820	825	825		
10	QPSK	1	0	22.92	22.91	22.86	24.5	0
10	QPSK	1	25	23.17	23.09	23.19		
10	QPSK	1	49	22.93	22.89	22.87		
10	QPSK	25	0	22.00	22.05	22.00	23.5	1
10	QPSK	25	12	22.17	22.17	22.25		
10	QPSK	25	25	22.25	22.14	22.14		
10	QPSK	50	0	22.23	22.20	22.21	23.5	1
10	16QAM	1	0	22.09	22.13	22.23		
10	16QAM	1	25	22.42	22.47	22.40		
10	16QAM	1	49	22.49	22.53	22.44	22.5	2
10	16QAM	25	0	21.05	21.02	21.13		
10	16QAM	25	12	21.13	21.22	21.15		
10	16QAM	25	25	21.13	21.07	21.16	22.5	2
10	16QAM	50	0	21.18	21.19	21.16		
10	64QAM	1	0	21.02	21.11	21.08		
10	64QAM	1	25	21.34	21.29	21.36	22.5	2
10	64QAM	1	49	20.93	20.89	20.88		
10	64QAM	25	0	20.24	20.21	20.23		
10	64QAM	25	12	20.10	20.09	20.18	21.5	3
10	64QAM	25	25	20.23	20.17	20.14		
10	64QAM	50	0	20.08	20.09	20.08		
Channel				23875	23825	23875	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				817.5	822.5	822.5		
5	QPSK	1	0	22.93	22.91	22.96	24.5	0
5	QPSK	1	12	23.16	23.17	23.13		
5	QPSK	1	24	22.99	22.97	22.97		
5	QPSK	12	0	22.01	22.01	22.06	23.5	1
5	QPSK	12	7	22.19	22.27	22.28		
5	QPSK	12	13	22.22	22.14	22.18		
5	QPSK	25	0	22.12	22.16	22.22	23.5	1
5	16QAM	1	0	22.17	22.09	22.23		
5	16QAM	1	12	22.39	22.42	22.37		
5	16QAM	1	24	22.50	22.52	22.53	22.5	2
5	16QAM	12	0	21.02	21.03	21.09		
5	16QAM	12	7	21.20	21.02	21.21		
5	16QAM	12	13	21.16	21.10	21.08	22.5	2
5	16QAM	25	0	21.29	21.17	21.18		
5	64QAM	1	0	21.07	21.02	21.02		
5	64QAM	1	12	21.32	21.23	21.37	22.5	2
5	64QAM	1	24	20.95	21.00	20.90		
5	64QAM	12	0	20.21	20.10	20.22		
5	64QAM	12	7	20.07	20.10	20.11	21.5	3
5	64QAM	12	13	20.20	20.10	20.12		
5	64QAM	25	0	20.05	20.09	20.12		



Band 19_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	23.06	23.06	23.06	24.5	0
15	QPSK	1	37	23.06	23.06	23.06		
15	QPSK	1	74	23.06	23.06	23.06		
15	QPSK	36	0	22.19	22.19	22.19	23.5	1
15	QPSK	36	39	22.19	22.19	22.19		
15	QPSK	36	75	22.19	22.19	22.19		
15	16QAM	1	0	22.37	22.37	22.37	23.5	1
15	16QAM	1	37	22.37	22.37	22.37		
15	16QAM	1	74	22.37	22.37	22.37		
15	16QAM	36	20	21.26	21.26	21.26	22.5	2
15	16QAM	36	56	21.26	21.26	21.26		
15	16QAM	36	92	21.26	21.26	21.26		
15	16QAM	1	0	21.50	21.50	21.50	22.5	2
15	16QAM	1	37	21.50	21.50	21.50		
15	16QAM	1	74	21.50	21.50	21.50		
15	16QAM	36	20	20.32	20.32	20.32	21.5	3
15	16QAM	36	56	20.32	20.32	20.32		
15	16QAM	36	92	20.32	20.32	20.32		
15	16QAM	75	0	20.18	20.18	20.18	21.5	3
15	16QAM	75	37	20.18	20.18	20.18		
15	16QAM	75	74	20.18	20.18	20.18		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.02	23.02	23.02	24.5	0
10	QPSK	1	25	23.02	23.02	23.02		
10	QPSK	1	49	23.02	23.02	23.02		
10	QPSK	25	0	22.08	22.08	22.08	23.5	1
10	QPSK	25	12	22.08	22.08	22.08		
10	QPSK	25	25	22.08	22.08	22.08		
10	QPSK	50	0	22.07	22.07	22.07	23.5	1
10	QPSK	50	0	22.07	22.07	22.07		
10	QPSK	50	0	22.07	22.07	22.07		
10	16QAM	1	25	22.30	22.30	22.30	22.5	2
10	16QAM	1	49	22.30	22.30	22.30		
10	16QAM	1	74	22.30	22.30	22.30		
10	16QAM	25	0	21.03	21.03	21.03	22.5	2
10	16QAM	25	12	21.03	21.03	21.03		
10	16QAM	25	25	21.03	21.03	21.03		
10	16QAM	1	0	21.35	21.35	21.35	22.5	2
10	16QAM	1	25	21.35	21.35	21.35		
10	16QAM	1	49	21.35	21.35	21.35		
10	16QAM	25	0	20.08	20.08	20.08	21.5	3
10	16QAM	25	12	20.08	20.08	20.08		
10	16QAM	25	25	20.08	20.08	20.08		
10	16QAM	50	0	20.17	20.17	20.17	21.5	3
10	16QAM	50	0	20.17	20.17	20.17		
10	16QAM	50	0	20.17	20.17	20.17		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.94	22.94	22.94	24.5	0
5	QPSK	1	12	22.94	22.94	22.94		
5	QPSK	1	24	22.94	22.94	22.94		
5	QPSK	12	0	22.04	22.04	22.04	23.5	1
5	QPSK	12	7	22.04	22.04	22.04		
5	QPSK	12	13	22.04	22.04	22.04		
5	QPSK	25	0	22.07	22.07	22.07	23.5	1
5	QPSK	25	0	22.07	22.07	22.07		
5	QPSK	25	0	22.07	22.07	22.07		
5	16QAM	1	0	22.27	22.27	22.27	23.5	1
5	16QAM	1	12	22.27	22.27	22.27		
5	16QAM	1	24	22.27	22.27	22.27		
5	16QAM	12	0	20.96	20.96	20.96	22.5	2
5	16QAM	12	7	20.96	20.96	20.96		
5	16QAM	12	13	20.96	20.96	20.96		
5	16QAM	12	13	21.11	21.11	21.11	22.5	2
5	16QAM	12	13	21.11	21.11	21.11		
5	16QAM	12	13	21.11	21.11	21.11		
5	16QAM	25	0	21.04	21.04	21.04	22.5	2
5	16QAM	25	0	21.04	21.04	21.04		
5	16QAM	25	0	21.04	21.04	21.04		
5	16QAM	1	12	21.00	21.00	21.00	21.5	3
5	16QAM	1	24	21.00	21.00	21.00		
5	16QAM	1	24	21.00	21.00	21.00		
5	16QAM	12	7	20.18	20.18	20.18	21.5	3
5	16QAM	12	7	20.18	20.18	20.18		
5	16QAM	12	7	20.18	20.18	20.18		
5	16QAM	25	0	20.10	20.10	20.10	21.5	3
5	16QAM	25	0	20.10	20.10	20.10		
5	16QAM	25	0	20.10	20.10	20.10		

Band 26_Ant 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								
Frequency (MHz)								
15	QPSK	1	0	23.26	23.26	23.26	24.5	0
15	QPSK	1	37	23.26	23.26	23.26		
15	QPSK	1	74	23.26	23.26	23.26		
15	QPSK	36	0	22.34	22.34	22.34	23.5	1
15	QPSK	36	20	22.34	22.34	22.34		
15	QPSK	36	39	22.34	22.34	22.34		
15	16QAM	1	0	23.01	23.01	23.01	23.5	1
15	16QAM	1	37	23.01	23.01	23.01		
15	16QAM	1	74	23.01	23.01	23.01		
15	16QAM	36	20	21.49	21.49	21.49	22.5	2
15	16QAM	36	56	21.49	21.49	21.49		
15	16QAM	36	92	21.49	21.49	21.49		
15	16QAM	1	0	21.84	21.84	21.84	22.5	2
15	16QAM	1	37	21.84	21.84	21.84		
15	16QAM	1	74	21.84	21.84	21.84		
15	16QAM	36	20	20.42	20.42	20.42	21.5	3
15	16QAM	36	56	20.42	20.42	20.42		
15	16QAM	36	92	20.42	20.42	20.42		
15	16QAM	75	0	20.31	20.31	20.31	21.5	3
15	16QAM	75	37	20.31	20.31	20.31		
15	16QAM	75	74	20.31	20.31	20.31		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.15	23.15	23.15	24.5	0
10	QPSK	1	25	23.15	23.15	23.15		
10	QPSK	1	49	23.15	23.15	23.15		
10	QPSK	25	0	22.23	22.23	22.23	23.5	1
10	QPSK	25	12	22.23	22.23	22.23		
10	QPSK	25	25	22.23	22.23	22.23		
10	QPSK	50	0	22.22	22.22	22.22	23.5	1
10	QPSK	50	0	22.22	22.22	22.22		
10	QPSK	50	0	22.22	22.22	22.22		
10	16QAM	1	25	22.57	22.57	22.57	22.5	2
10	16QAM	1	49	22.57	22.57	22.57		
10	16QAM	1	74	22.57	22.57	22.57		
10	16QAM	25	0	21.03	21.03	21.03	22.5	2
10	16QAM	25	12	21.03	21.03	21.03		
10	16QAM	25	25	21.03	21.03	21.03		
10	16QAM	1	0	21.35	21.35	21.35	22.5	2
10	16QAM	1	25	21.35	21.35	21.35		
10	16QAM	1	49	21.35	21.35	21.35		
10	16QAM	25	0	20.08	20.08	20.08	21.5	3
10	16QAM	25	12	20.08	20.08	20.08		
10	16QAM	25	25	20.08	20.08	20.08		
10	16QAM	50	0	20.17	20.17	20.17	21.5	3
10	16QAM	50	0	20.17	20.17	20.17		
10	16QAM	50	0	20.17	20.17	20.17		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.24	23.24	23.24	24.5	0
5	QPSK	1	12	23.24	23.24	23.24		
5	QPSK	1	24	23.24	23.24	23.24		
5	QPSK	12	0	22.34	22.34	22.34	23.5	1
5	QPSK	12	7	22.34	22.34	22.34		
5	QPSK	12	13	22.34	22.34	22.34		
5	QPSK	25	0	22.55	22.55	22.55	23.5	1
5	QPSK	25	0	22.55	22.55	22.55		
5	QPSK	25	0	22.55	22.55	22.55		
5	16QAM	1	0	22.87	22.87	22.87	23.5	1
5	16QAM	1	12	22.87	22.87	22.87		
5	16QAM	1	24	22.87	22.87	22.87		
5	16QAM	12	0	21.29	21.29	21.29	22.5	2
5	16QAM	12	7	21.29	21.29	21.29		
5	16QAM	12	13	21.29	21.29	21.29		
5	16QAM	12	13	21.48	21.48	21.48	22.5	2
5	16QAM	12	13	21.48	21.48	21.48		
5	16QAM	12	13	21.48	21.48	21.48		
5	16QAM	25	0	21.35	21.35	21.35	22.5	2
5	16QAM	25	0	21.35	21.35	21.35		
5	16QAM	25	0	21.35	21.35	21.35		
5	16QAM	1	12	21.91	21.91	21.91	22.5	2
5	16QAM	1	24	21.91	21.91	21.91		
5	16QAM	1	24	21.91	21.91	21.91		
5	16QAM	12	7	20.47	20.47	20.47	21.5	3
5	16QAM	12	7	20.47	20.47	20.47		
5	16QAM	12	7					



Band 66_Ant 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								
Frequency (MHz)								
20	QPSK	1	0	23.56	23.70	23.48	24.5	0
20	QPSK	1	49	23.56	23.70	23.48		
20	QPSK	1	99	23.36	23.36	23.36		
20	QPSK	50	0	22.66	22.75	22.63	23.5	1
20	QPSK	50	24	22.66	22.75	22.63		
20	QPSK	50	50	22.77	22.81	22.68		
20	QPSK	100	0	22.84	22.80	22.64	23.5	1
20	16QAM	1	0	22.81	22.68	22.69		
20	16QAM	1	49	22.71	22.68	22.92		
20	16QAM	1	99	22.89	22.70	22.88	22.5	2
20	16QAM	50	0	21.84	21.77	21.61		
20	16QAM	50	24	21.82	21.75	21.72		
20	16QAM	50	50	21.80	21.81	21.90	21.5	3
20	16QAM	100	0	21.71	21.63	21.73		
20	64QAM	1	0	21.89	21.95	21.97		
20	64QAM	1	49	22.08	21.89	21.76	22.5	2
20	64QAM	1	99	21.68	21.68	21.70		
20	64QAM	50	0	20.68	20.77	20.73		
20	64QAM	50	24	20.74	20.78	20.76	21.5	3
20	64QAM	50	50	20.73	20.68	20.70		
20	64QAM	100	0	20.72	20.71	20.73		
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.43	23.55	23.41	24.5	0
15	QPSK	1	37	23.43	23.67	23.62		
15	QPSK	1	74	23.30	23.30	23.28		
15	QPSK	36	0	22.51	22.65	22.58	23.5	1
15	QPSK	36	20	22.68	22.75	22.57		
15	QPSK	36	36	22.67	22.67	22.64		
15	QPSK	75	0	22.53	22.77	22.63	23.5	1
15	16QAM	1	0	22.72	22.65	22.97		
15	16QAM	1	37	22.67	22.53	22.89		
15	16QAM	1	74	22.68	22.64	22.64	22.5	2
15	16QAM	36	0	21.54	21.71	21.49		
15	16QAM	36	20	21.78	21.83	21.72		
15	16QAM	36	36	21.71	21.49	21.51	21.5	3
15	16QAM	75	0	21.70	21.54	21.66		
15	64QAM	1	0	21.84	21.82	21.85		
15	64QAM	1	37	21.98	21.75	21.73	22.5	2
15	64QAM	1	74	21.63	21.58	21.69		
15	64QAM	36	0	20.55	20.73	20.73		
15	64QAM	36	20	20.61	20.61	20.72	21.5	3
15	64QAM	36	36	20.63	20.59	20.70		
15	64QAM	75	0	20.58	20.68	20.66		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.56	23.64	23.35	24.5	0
10	QPSK	1	25	23.55	23.70	23.63		
10	QPSK	1	49	23.30	23.31	23.33		
10	QPSK	25	0	22.54	22.81	22.51	23.5	1
10	QPSK	25	12	22.74	22.83	22.55		
10	QPSK	25	25	22.67	22.67	22.64		
10	QPSK	50	0	22.58	22.71	22.62	23.5	1
10	16QAM	1	0	22.77	22.52	22.94		
10	16QAM	1	25	22.67	22.65	22.81		
10	16QAM	1	49	22.81	22.65	22.58	22.5	2
10	16QAM	25	0	21.63	21.77	21.49		
10	16QAM	25	12	21.80	21.74	21.57		
10	16QAM	25	25	21.79	21.56	21.54	22.5	2
10	16QAM	50	0	21.61	21.59	21.56		
10	64QAM	1	0	21.76	21.89	21.86		
10	64QAM	1	25	21.99	21.84	21.71	22.5	2
10	64QAM	1	49	21.62	21.64	21.58		
10	64QAM	25	0	20.59	20.76	20.58		
10	64QAM	25	12	20.72	20.65	20.70	21.5	3
10	64QAM	25	25	20.69	20.54	20.69		
10	64QAM	50	0	20.67	20.51	20.70		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.50	23.64	23.35	24.5	0
5	QPSK	1	12	23.56	23.64	23.63		
5	QPSK	1	24	23.26	23.25	23.38		
5	QPSK	12	0	22.63	22.67	22.59	23.5	1
5	QPSK	12	7	22.72	22.75	22.67		
5	QPSK	12	13	22.78	22.72	22.53		
5	QPSK	25	0	22.80	22.76	22.55	23.5	1
5	16QAM	1	0	22.67	22.61	22.87		
5	16QAM	1	12	22.71	22.66	22.77		
5	16QAM	1	24	22.81	22.66	22.59	22.5	2
5	16QAM	12	0	21.64	21.70	21.57		
5	16QAM	12	7	21.67	21.68	21.54		
5	16QAM	12	13	21.69	21.55	21.51	22.5	2
5	16QAM	25	0	21.67	21.48	21.62		
5	64QAM	1	0	21.67	21.86	21.83		
5	64QAM	1	12	22.01	21.84	21.61	21.5	3
5	64QAM	12	24	21.63	21.55	21.65		
5	64QAM	12	13	20.60	20.62	20.65		
5	64QAM	12	7	20.70	20.66	20.63	21.5	3
5	64QAM	12	13	20.60	20.56	20.57		
5	64QAM	25	0	20.60	20.67	20.73		
Channel								
Frequency (MHz)								
3	QPSK	1	0	23.42	23.60	23.32	24.5	0
3	QPSK	1	8	23.63	23.73	23.51		
3	QPSK	1	14	23.27	23.21	23.27		
3	QPSK	8	0	22.66	22.70	22.59	23.5	1
3	QPSK	8	4	22.68	22.81	22.57		
3	QPSK	8	7	22.67	22.70	22.55		
3	QPSK	15	0	22.53	22.80	22.55	23.5	1
3	16QAM	1	0	22.80	22.53	22.86		
3	16QAM	1	8	22.67	22.60	22.79		
3	16QAM	1	14	22.56	22.65	22.54	22.5	2
3	16QAM	8	0	21.55	21.63	21.58		
3	16QAM	8	4	21.74	21.61	21.65		
3	16QAM	8	7	21.79	21.48	21.50	22.5	2
3	16QAM	15	0	21.64	21.59	21.58		
3	64QAM	1	0	21.86	21.86	21.91		
3	64QAM	1	8	22.06	21.78	21.63	21.5	3
3	64QAM	1	14	21.62	21.82	21.61		
3	64QAM	8	0	20.56	20.73	20.62		
3	64QAM	8	4	20.67	20.74	20.63	21.5	3
3	64QAM	8	7	20.72	20.67	20.55		
3	64QAM	15	0	20.65	20.63	20.61		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.54	23.62	23.55	24.5	0
1.4	QPSK	1	3	23.53	23.73	23.63		
1.4	QPSK	1	5	23.63	23.40	23.55		
1.4	QPSK	3	0	23.24	23.53	23.56	23.5	1
1.4	QPSK	3	1	23.26	23.21	23.53		
1.4	QPSK	3	3	23.52	23.26	23.55		
1.4	QPSK	6	0	23.27	23.32	23.26	23.5	1
1.4	16QAM	1	0	22.63	22.77	22.70		
1.4	16QAM	1	3	22.70	22.58	22.89		
1.4	16QAM	1	5	22.69	22.58	22.58	23.5	1
1.4	16QAM	3	0	22.63	22.81	22.59		
1.4	16QAM	3	1	22.63	22.70	22.65		
1.4	16QAM	3	3	22.78	22.71	22.59	22.5	2
1.4	16QAM	6	0	21.60	21.49	21.65		
1.4	64QAM	1	0	21.82	21.89	21.92		
1.4	64QAM	1	3	21.69	21.60	21.64	22.5	2
1.4	64QAM	1	5	21.63	21.59	21.61		
1.4	64QAM	3	0	21.72	21.71	21.65		
1.4	64QAM	3	1	21.70	21.63	21.66	21.5	3
1.4	64QAM	3	3	21.80	21.73	21.63		
1.4	64QAM	6	0	20.67	20.69	20.72		



Band 38_Ant 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								
Frequency (MHz)								
20	QPSK	1	0	24.01	24.10	24.09	25	0
20	QPSK	1	49	24.24	24.33	24.23		
20	QPSK	1	99	24.47	24.56	24.46		
20	QPSK	50	0	23.24	23.16	23.31	24	1
20	QPSK	50	24	23.31	23.40	23.38		
20	QPSK	50	50	23.28	23.30	23.33		
20	QPSK	100	0	23.16	23.35	23.34	24	1
20	16QAM	1	0	23.27	23.24	23.32		
20	16QAM	1	49	23.51	23.58	23.45		
20	16QAM	1	99	23.33	23.48	23.50	23	2
20	16QAM	50	0	22.19	22.19	22.40		
20	16QAM	50	24	22.32	22.36	22.45		
20	16QAM	50	50	22.29	22.31	22.43	23	2
20	16QAM	100	0	22.25	22.30	22.38		
20	16QAM	100	24	22.28	22.28	22.40		
20	16QAM	1	49	22.44	22.48	22.54	23	2
20	16QAM	50	24	22.35	22.35	22.38		
20	16QAM	50	50	21.19	21.28	21.27		
20	16QAM	50	24	21.38	21.42	21.48	22	3
20	16QAM	50	50	21.27	21.33	21.46		
20	16QAM	100	0	21.20	21.27	21.38		
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.75	23.65	23.75	25	0
15	QPSK	1	37	24.12	24.19	24.27		
15	QPSK	1	74	24.04	24.06	24.01		
15	QPSK	36	0	23.16	23.02	23.16	24	1
15	QPSK	36	20	23.17	23.22	23.26		
15	QPSK	36	39	23.12	23.22	23.27		
15	QPSK	36	39	23.01	23.29	23.25	24	1
15	16QAM	1	0	23.23	23.21	23.32		
15	16QAM	1	37	23.42	23.50	23.45		
15	16QAM	1	74	23.18	23.34	23.47	23	2
15	16QAM	36	0	22.15	22.10	22.28		
15	16QAM	36	20	22.28	22.29	22.42		
15	16QAM	36	39	22.25	22.26	22.31	23	2
15	16QAM	75	0	22.13	22.22	22.38		
15	16QAM	75	20	22.29	22.09	22.29		
15	16QAM	1	37	22.32	22.37	22.42	22	3
15	16QAM	1	74	22.25	22.30	22.33		
15	16QAM	36	20	21.07	21.14	21.25		
15	16QAM	36	39	21.33	21.28	21.47	22	3
15	16QAM	36	39	21.26	21.27	21.31		
15	16QAM	75	0	21.13	21.19	21.31		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.75	23.65	23.75	25	0
10	QPSK	1	25	24.23	24.31	24.21		
10	QPSK	1	49	24.08	24.02	24.10		
10	QPSK	25	0	23.18	23.06	23.24	24	1
10	QPSK	25	12	23.23	23.31	23.35		
10	QPSK	25	25	23.11	23.24	23.28		
10	QPSK	50	0	23.08	23.39	23.22	24	1
10	16QAM	1	0	23.24	23.09	23.25		
10	16QAM	1	25	23.38	23.46	23.43		
10	16QAM	25	0	22.16	22.19	22.38	23	2
10	16QAM	25	12	22.18	22.23	22.39		
10	16QAM	25	25	22.23	22.26	22.43		
10	16QAM	50	0	22.13	22.16	22.26	23	2
10	16QAM	1	0	22.00	22.08	22.20		
10	16QAM	1	25	22.33	22.47	22.47		
10	16QAM	1	49	22.34	22.33	22.23	22	3
10	16QAM	25	0	21.08	21.17	21.25		
10	16QAM	25	12	21.35	21.29	21.49		
10	16QAM	25	25	21.14	21.33	21.46	22	3
10	16QAM	50	0	21.19	21.22	21.31		
10	16QAM	50	25	21.26	21.27	21.31		
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.00	24.05	24.03	25	0
5	QPSK	1	12	24.17	24.23	24.17		
5	QPSK	1	24	24.03	23.94	24.13		
5	QPSK	12	0	23.21	23.04	23.17	24	1
5	QPSK	12	7	23.22	23.34	23.33		
5	QPSK	12	13	23.12	23.17	23.24		
5	QPSK	25	0	23.12	23.21	23.21	24	1
5	16QAM	1	0	23.27	23.11	23.21		
5	16QAM	1	12	23.49	23.47	23.37		
5	16QAM	12	0	22.08	22.10	22.39	23	2
5	16QAM	12	7	22.23	22.22	22.41		
5	16QAM	12	13	22.24	22.29	22.36		
5	16QAM	25	0	22.20	22.20	22.31	23	2
5	16QAM	1	0	22.02	22.10	22.30		
5	16QAM	1	12	22.33	22.37	22.53		
5	16QAM	1	24	22.33	22.25	22.24	22	3
5	16QAM	12	0	21.17	21.15	21.19		
5	16QAM	12	7	21.28	21.31	21.47		
5	16QAM	12	13	21.19	21.19	21.33	22	3
5	16QAM	25	0	21.17	21.26	21.30		

Band 41_Ant 13

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.55	23.60	23.64	23.64	23.54	24.5	0
20	QPSK	1	49	23.70	23.51	23.84	23.84	23.76		
20	QPSK	1	99	23.84	23.44	23.54	23.76	23.70		
20	QPSK	50	0	23.05	23.01	23.13	23.30	23.38	24	0.5
20	QPSK	50	24	23.25	23.15	23.44	23.43	23.39		
20	QPSK	50	50	23.15	23.10	23.28	23.15	23.28		
20	QPSK	100	0	23.31	23.33	23.39	23.29	23.37	24	0.5
20	16QAM	1	0	23.40	23.31	23.46	23.41	23.36		
20	16QAM	1	49	23.38	23.33	23.48	23.31	23.40		
20	16QAM	1	99	23.28	23.29	23.34	23.25	23.20	23	1.5
20	16QAM	50	0	22.14	22.06	22.20	22.14	22.14		
20	16QAM	50	24	22.28	22.28	22.32	22.32	22.23		
20	16QAM	50	50	22.20	22.23	22.24	22.23	22.23	23	1.5
20	16QAM	100	0	22.04	22.17	22.18	22.03	22.05		
20	16QAM	100	24	22.08	22.08	22.12	22.05	22.04		
20	16QAM	1	49	22.42	22.39	22.42	22.29	22.36	23	1.5
20	16QAM	7	0	22.55	22.27	22.30	22.27	22.20		
20	16QAM	50	0	21.07	21.11	21.18	21.03	21.13		
20	16QAM	50	24	21.20	21.28	21.34	21.33	21.24	22	2.5
20	16QAM	50	50	21.18	21.20	21.31	21.20	21.28		
20	16QAM	100	0	21.14	21.13	21.29	21.11	21.14		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.51	23.58	23.63	23.63	23.45	24.50	0
15	QPSK	1	37	23.66	23.54	23.76	23.74	23.74		
15	QPSK	1	74	23.55	23.43	23.49	23.81	23.51		
15	QPSK	36	0	22.98	23.02	23.02	23.05	23.05	24	0.5
15	QPSK	36	20	23.32	23.30	23.28	23.26	23.37		
15	QPSK	36	39	23.12	23.12	23.16	23.13	23.19		
15	QPSK	36	39	23.22	23.18	23.22	23.25	23.26	24	0.5
15	16QAM	1	0	23.07	23.11	23.12	23.16	23.07		
15	16QAM	1	37	23.35	23.37	23.39	23.32	23.34		
15	16QAM	1	74	23.22	23.22	23.18	23.19	23.19	23	1.5
15	16QAM	36	0	22.06	22.01	22.06	22.09	22.11		
15	16QAM	36	20	22.15	22.15	22.28	22.16	22.17		
15	16QAM	36	39	22.04	22.08	22.09	22.12	22.08	23	1.5
15	16QAM	75	0	22.10	22.07	22.03	21.99	22.12		
15	16QAM	75	20	22.12	22.11	22.12	22.11	22.09		
15	16QAM	1	37	22.36	22.28	22.34	22.38	22.27	22	2.5
15	16QAM	1	74	22.10	22.10	22.25	22.20	22.11		
15	16QAM	36	0	21.03	21.06	21.09	21.06	21.12		
15	16QAM	36	20	21.20	21.23	21.29	21.23	21.24	22	2.5
15	16QAM	36	39	21.11	21.28	21.15	21.23	21.14		
15	16QAM	75	0	21.09	21.11	21.14	21.15	21.12		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.45	23.52	23.60	23.60	23.45	24.50	0
10	QPSK	1	25	23.60	23.57	23.79	23.74	23.67		
10	QPSK	1	49	23.50	23.40	23.43	23.86	23.50		
10	QPSK	25	0	23.03	23.06	23.01	23.06	23.06	24	0.5
10	QPSK	25	12	23.38	23.37	23.38	23.38	23.38		
10	QPSK	25	25	23.09	23.08	23.12	23.12	23.12		
10	QPSK	50	0	23.33	23.22	23.21	23.19	23.32	24	0.5



CA_7C Ant 13

Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	49	0	0	1	0	Default Power	23.15	24.00
21100	20902	QPSK	1	49	0	0	1	0	Default Power	23.28	24.00
21350	21152	QPSK	1	49	0	0	1	0	Default Power	23.26	24.00
20850	21048	QPSK	1	49	0	0	1	0	DSI 2	12.75	13.50
21100	20902	QPSK	1	49	0	0	1	0	DSI 2	12.81	13.50
21350	21152	QPSK	1	49	0	0	1	0	DSI 2	12.78	13.50
20850	21048	QPSK	1	49	0	0	1	0	DSI 3	11.78	12.50
21100	20902	QPSK	1	49	0	0	1	0	DSI 3	11.85	12.50
21350	21152	QPSK	1	49	0	0	1	0	DSI 3	11.83	12.50
20850	21048	QPSK	1	49	0	0	1	0	DSI 4	17.20	18.00
21100	20902	QPSK	1	49	0	0	1	0	DSI 4	17.25	18.00
21350	21152	QPSK	1	49	0	0	1	0	DSI 4	17.23	18.00
20850	21048	QPSK	1	49	0	0	1	0	DSI 5	14.87	15.50
21100	20902	QPSK	1	49	0	0	1	0	DSI 5	14.90	15.50
21350	21152	QPSK	1	49	0	0	1	0	DSI 5	14.88	15.50
20850	21048	QPSK	1	49	0	0	1	0	DSI 6	14.87	15.50
21100	20902	QPSK	1	49	0	0	1	0	DSI 6	14.90	15.50
21350	21152	QPSK	1	49	0	0	1	0	DSI 6	14.88	15.50
20850	21048	QPSK	1	49	0	0	1	0	DSI 7	21.17	22.00
21100	20902	QPSK	1	49	0	0	1	0	DSI 7	21.25	22.00
21350	21152	QPSK	1	49	0	0	1	0	DSI 7	21.24	22.00

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Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	49	0	0	1	0	Default Power	23.05	24.00
21100	20902	QPSK	1	49	0	0	1	0	Default Power	23.09	24.00
21350	21152	QPSK	1	49	0	0	1	0	Default Power	23.07	24.00
20850	21048	QPSK	1	49	0	0	1	0	DSI 2	23.05	24.00
21100	20902	QPSK	1	49	0	0	1	0	DSI 2	23.09	24.00
21350	21152	QPSK	1	49	0	0	1	0	DSI 2	23.07	24.00
20850	21048	QPSK	1	49	0	0	1	0	DSI 3	23.05	24.00
21100	20902	QPSK	1	49	0	0	1	0	DSI 3	23.09	24.00
21350	21152	QPSK	1	49	0	0	1	0	DSI 3	23.07	24.00
20850	21048	QPSK	1	49	0	0	1	0	DSI 4	22.00	23.00
21100	20902	QPSK	1	49	0	0	1	0	DSI 4	22.05	23.00
21350	21152	QPSK	1	49	0	0	1	0	DSI 4	22.02	23.00
20850	21048	QPSK	1	49	0	0	1	0	DSI 5	21.03	22.00
21100	20902	QPSK	1	49	0	0	1	0	DSI 5	21.08	22.00
21350	21152	QPSK	1	49	0	0	1	0	DSI 5	21.07	22.00
20850	21048	QPSK	1	49	0	0	1	0	DSI 6	21.03	22.00
21100	20902	QPSK	1	49	0	0	1	0	DSI 6	21.08	22.00
21350	21152	QPSK	1	49	0	0	1	0	DSI 6	21.07	22.00
20850	21048	QPSK	1	49	0	0	1	0	DSI 7	22.00	23.00
21100	20902	QPSK	1	49	0	0	1	0	DSI 7	22.05	23.00
21350	21152	QPSK	1	49	0	0	1	0	DSI 7	22.02	23.00



CA_41C Ant 13											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	49	0	0	1	0	Default Power	24.00	25.00
40185	39987	QPSK	1	49	0	0	1	0	Default Power	24.15	25.00
40620	40422	QPSK	1	49	0	0	1	0	Default Power	24.28	25.00
41055	40857	QPSK	1	49	0	0	1	0	Default Power	24.20	25.00
41490	41292	QPSK	1	49	0	0	1	0	Default Power	24.26	25.00
39750	39948	16QAM	1	49	0	0	1	0	DSI 2	14.71	15.50
40185	39987	16QAM	1	49	0	0	1	0	DSI 2	14.75	15.50
40620	40422	16QAM	1	49	0	0	1	0	DSI 2	14.81	15.50
41055	40857	16QAM	1	49	0	0	1	0	DSI 2	14.76	15.50
41490	41292	16QAM	1	49	0	0	1	0	DSI 2	14.80	15.50
39750	39948	64QAM	1	49	0	0	1	0	DSI 3	13.76	14.50
40185	39987	64QAM	1	49	0	0	1	0	DSI 3	13.72	14.50
40620	40422	64QAM	1	49	0	0	1	0	DSI 3	13.79	14.50
41055	40857	64QAM	1	49	0	0	1	0	DSI 3	13.76	14.50
41490	41292	64QAM	1	49	0	0	1	0	DSI 3	13.79	14.50
39750	39948	256QAM	1	49	0	0	1	0	DSI 4	18.68	19.50
40185	39987	256QAM	1	49	0	0	1	0	DSI 4	18.69	19.50
40620	40422	256QAM	1	49	0	0	1	0	DSI 4	18.8	19.50
41055	40857	256QAM	1	49	0	0	1	0	DSI 4	18.74	19.50
41490	41292	256QAM	1	49	0	0	1	0	DSI 4	18.76	19.50
39750	39948	16QAM	1	49	0	0	1	0	DSI 5	17.27	18.00
40185	39987	16QAM	1	49	0	0	1	0	DSI 5	17.15	18.00
40620	40422	16QAM	1	49	0	0	1	0	DSI 5	17.3	18.00
41055	40857	16QAM	1	49	0	0	1	0	DSI 5	17.26	18.00
41490	41292	16QAM	1	49	0	0	1	0	DSI 5	17.29	18.00
39750	39948	64QAM	1	49	0	0	1	0	DSI 6	17.27	18.00
40185	39987	64QAM	1	49	0	0	1	0	DSI 6	17.15	18.00
40620	40422	64QAM	1	49	0	0	1	0	DSI 6	17.3	18.00
41055	40857	64QAM	1	49	0	0	1	0	DSI 6	17.26	18.00
41490	41292	64QAM	1	49	0	0	1	0	DSI 6	17.29	18.00
39750	39948	256QAM	1	49	0	0	1	0	DSI 7	23.59	24.50
40185	39987	256QAM	1	49	0	0	1	0	DSI 7	23.6	24.50
40620	40422	256QAM	1	49	0	0	1	0	DSI 7	23.8	24.50
41055	40857	256QAM	1	49	0	0	1	0	DSI 7	23.73	24.50
41490	41292	256QAM	1	49	0	0	1	0	DSI 7	23.75	24.50

CA_41C Ant 31											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	49	0	0	1	0	Default Power	23.76	24.50
40185	39987	QPSK	1	49	0	0	1	0	Default Power	23.85	24.50
40620	40422	QPSK	1	49	0	0	1	0	Default Power	23.96	24.50
41055	40857	QPSK	1	49	0	0	1	0	Default Power	23.81	24.50
41490	41292	QPSK	1	49	0	0	1	0	Default Power	23.95	24.50
39750	39948	16QAM	1	49	0	0	1	0	DSI 2	23.76	24.50
40185	39987	16QAM	1	49	0	0	1	0	DSI 2	23.85	24.50
40620	40422	16QAM	1	49	0	0	1	0	DSI 2	23.96	24.50
41055	40857	16QAM	1	49	0	0	1	0	DSI 2	23.81	24.50
41490	41292	16QAM	1	49	0	0	1	0	DSI 2	23.95	24.50
39750	39948	64QAM	1	49	0	0	1	0	DSI 3	23.76	24.50
40185	39987	64QAM	1	49	0	0	1	0	DSI 3	23.85	24.50
40620	40422	64QAM	1	49	0	0	1	0	DSI 3	23.96	24.50
41055	40857	64QAM	1	49	0	0	1	0	DSI 3	23.81	24.50
41490	41292	64QAM	1	49	0	0	1	0	DSI 3	23.95	24.50
39750	39948	256QAM	1	49	0	0	1	0	DSI 4	23.76	24.50
40185	39987	256QAM	1	49	0	0	1	0	DSI 4	23.85	24.50
40620	40422	256QAM	1	49	0	0	1	0	DSI 4	23.96	24.50
41055	40857	256QAM	1	49	0	0	1	0	DSI 4	23.81	24.50
41490	41292	256QAM	1	49	0	0	1	0	DSI 4	23.95	24.50
39750	39948	16QAM	1	49	0	0	1	0	DSI 5	23.38	24.00
40185	39987	16QAM	1	49	0	0	1	0	DSI 5	23.41	24.00
40620	40422	16QAM	1	49	0	0	1	0	DSI 5	23.49	24.00
41055	40857	16QAM	1	49	0	0	1	0	DSI 5	23.38	24.00
41490	41292	16QAM	1	49	0	0	1	0	DSI 5	23.48	24.00
39750	39948	64QAM	1	49	0	0	1	0	DSI 6	23.38	24.00
40185	39987	64QAM	1	49	0	0	1	0	DSI 6	23.41	24.00
40620	40422	64QAM	1	49	0	0	1	0	DSI 6	23.49	24.00
41055	40857	64QAM	1	49	0	0	1	0	DSI 6	23.38	24.00
41490	41292	64QAM	1	49	0	0	1	0	DSI 6	23.48	24.00
39750	39948	256QAM	1	49	0	0	1	0	DSI 7	23.76	24.50
40185	39987	256QAM	1	49	0	0	1	0	DSI 7	23.85	24.50
40620	40422	256QAM	1	49	0	0	1	0	DSI 7	23.96	24.50
41055	40857	256QAM	1	49	0	0	1	0	DSI 7	23.81	24.50
41490	41292	256QAM	1	49	0	0	1	0	DSI 7	23.95	24.50

Full Power

2CC		Full Power													
Configure		CA Configuration (BCS)	PCC							SCC				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Intra-Band	Non-Contiguous	CA_4A-4A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 4	5M	2152.5	2375	23.51	23.66
		CA_7A-7A	Band 7	20M	2535	21100	QPSK	1	49	Band 7	5M	2687.5	3425	23.29	23.42
		CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	49	Band 41	5M	2687.50	41565	24.28	24.36
	Contiguous	CA_66A-66A	Band 66	20M	1745	132322	QPSK	1	49	Band 66	5M	2197.50	67311	23.67	23.76
		CA_7C	Band 7	20M	2535	21100	QPSK	1	49	Band 7	20M	2674.80	3298	23.31	23.42
		CA_38C	Band 38	20M	2580	37850	QPSK	1	49	Band 38	20M	2599.80	38048	24.25	24.33
		CA_41C	Band 41	20M	2593	40620	QPSK	1	49	Band 41	20M	2612.80	40818	24.30	24.36
	CA_66C	Band 66	20M	1745	132322	QPSK	1	49	Band 66	20M	2174.80	67084	23.71	23.76	



WiFi&BT Power

<WLAN 2.4GHz FCC>

2.4GHz WLAN_Ant_22											
Mode	Channel	Frequency (MHz)	Full Power		Head(Receiver on)		Body(Standalone)		Body(Simultaneous&Hotspot)		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11b 1Mbps	1	2412	18.80	20.00	13.70	15.00	18.80	20.00	18.80	20.00	100.00
	6	2437	18.70	20.00	13.50	15.00	18.70	20.00	18.70	20.00	
	11	2462	18.70	20.00	13.60	15.00	18.70	20.00	18.70	20.00	
	44	5200	18.94	20.00	13.00	15.00	18.94	20.00	14.30	15.50	
	48	5240	18.00	20.00	15.00	16.60	18.00	16.60	18.00	18.00	
	11	2462	13.60	15.00	Not Required	15.00	13.60	15.00	13.60	15.00	
802.11n-HT20 MCS0	1	2412	14.10	15.50	15.00	14.10	15.50	14.10	15.50	15.50	97.30
	6	2437	15.50	17.00	15.00	15.50	17.00	15.50	17.00	15.50	
	11	2462	13.40	15.00	15.00	13.40	15.00	13.40	15.00	15.00	

<WLAN 5GHz FCC>

5.2GHz WLAN_Ant_22												
Mode	Channel	Frequency (MHz)	Full Power		Head(Receiver on)		Body(Standalone)		Body(Simultaneous&Hotspot)		Duty Cycle %	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	36	5180	15.05	17.00	13.00	15.05	17.00	13.00	15.02	17.00	97.46	
	40	5200	15.02	17.00	13.00	15.02	17.00	13.00	15.02	17.00		
	44	5220	18.94	20.00	13.00	18.94	20.00	13.00	18.94	20.00		
	48	5240	18.00	20.00	13.00	18.00	20.00	13.00	18.00	20.00		
802.11n-HT20 MCS0	36	5180	15.20	17.00	13.00	15.20	17.00	13.00	15.11	17.00	97.28	
	40	5200	15.11	17.00	13.00	15.11	17.00	13.00	15.11	17.00		
	44	5220	17.14	19.00	13.00	17.14	19.00	13.00	17.14	19.00		
	48	5240	17.23	19.00	13.00	17.23	19.00	13.00	17.23	19.00		
802.11n-HT40 MCS0	38	5190	13.72	15.50	13.00	13.72	15.50	13.72	15.50	15.50	94.92	
	46	5230	16.29	18.00	13.00	16.29	18.00	13.00	16.29	18.00		
802.11ac-VHT20 MCS0	36	5180	15.14	17.00	13.00	15.14	17.00	13.00	15.14	17.00	97.31	
	40	5200	15.06	17.00	13.00	15.06	17.00	13.00	15.06	17.00		
	44	5220	16.56	18.50	13.00	16.56	18.50	13.00	16.56	18.50		
	48	5240	16.80	18.50	13.00	16.80	18.50	13.00	16.80	18.50		
802.11ac-VHT40 MCS0	38	5190	13.84	15.50	13.00	13.84	15.50	13.00	13.84	15.50	94.96	
	46	5230	15.64	17.50	13.00	15.64	17.50	13.00	15.64	17.50		
802.11ac-VHT80 MCS0	42	5210	13.28	15.00	11.12	13.00	13.28	15.00	13.00	13.28	15.00	89.92

5.3GHz WLAN_Ant_22												
Mode	Channel	Frequency (MHz)	Full Power		Head(Receiver on)		Body(Standalone)		Body(Simultaneous)		Duty Cycle %	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	52	5260	18.06	20.00	13.00	18.06	20.00	13.00	18.02	19.50	97.46	
	56	5280	18.02	19.50	13.00	18.02	19.50	13.00	18.02	19.50		
	60	5300	18.08	20.00	13.00	18.08	20.00	13.00	18.08	20.00		
802.11n-HT20 MCS0	52	5260	17.20	19.00	13.00	17.20	19.00	13.00	17.15	19.00	97.28	
	56	5280	17.15	19.00	13.00	17.15	19.00	13.00	17.15	19.00		
	60	5300	17.10	19.00	13.00	17.10	19.00	13.00	17.10	19.00		
802.11n-HT40 MCS0	54	5270	16.14	18.00	13.00	16.14	18.00	13.00	16.14	18.00	94.92	
	62	5310	13.72	15.50	13.00	13.72	15.50	13.00	13.72	15.50		
802.11ac-VHT20 MCS0	52	5260	16.64	18.50	13.00	16.64	18.50	13.00	16.64	18.50	97.31	
	56	5280	16.56	18.50	13.00	16.56	18.50	13.00	16.56	18.50		
	60	5300	16.61	18.50	13.00	16.61	18.50	13.00	16.61	18.50		
802.11ac-VHT40 MCS0	64	5320	16.04	18.00	13.00	16.04	18.00	13.00	16.04	18.00	94.96	
	54	5270	15.68	17.50	13.00	15.68	17.50	13.00	15.68	17.50		
802.11ac-VHT80 MCS0	58	5290	12.69	14.50	11.05	13.00	12.69	14.50	13.00	12.69	14.50	89.92

5.5GHz WLAN_Ant_22											
Mode	Channel	Frequency (MHz)	Full Power		Head(Receiver on)		Body(Standalone)		Body(Simultaneous)		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	100	5500	15.07	17.00	12.00	15.07	17.00	12.00	15.03	17.00	97.46
	116	5580	15.53	17.50	12.00	15.53	17.50	12.00	15.52	17.50	
	124	5620	15.52	17.50	12.00	15.52	17.50	12.00	15.52	17.50	
	132	5660	15.56	17.50	12.00	15.56	17.50	12.00	15.56	17.50	
	140	5700	13.05	15.00	12.00	13.05	15.00	12.00	13.05	15.00	
802.11n-HT20 MCS0	144	5720	15.57	17.50	12.00	15.57	17.50	12.00	15.57	17.50	97.28
	100	5500	15.12	17.00	12.00	15.12	17.00	12.00	15.12	17.00	
	116	5580	15.64	17.50	12.00	15.64	17.50	12.00	15.64	17.50	
	124	5620	15.61	17.50	12.00	15.61	17.50	12.00	15.61	17.50	
	132	5660	15.63	17.50	12.00	15.63	17.50	12.00	15.63	17.50	
802.11n-HT40 MCS0	140	5700	13.09	15.00	12.00	13.09	15.00	12.00	13.09	15.00	94.92
	144	5720	15.60	17.50	12.00	15.60	17.50	12.00	15.60	17.50	
	102	5510	11.14	13.00	12.00	11.14	13.00	12.00	11.14	13.00	
	110	5550	15.79	17.50	12.00	15.79	17.50	12.00	15.79	17.50	
	128	5630	15.72	17.50	12.00	15.72	17.50	12.00	15.72	17.50	
802.11ac-VHT20 MCS0	134	5670	14.19	16.00	12.00	14.19	16.00	12.00	14.19	16.00	97.31
	142	5710	15.73	17.50	12.00	15.73	17.50	12.00	15.73	17.50	
	100	5500	15.08	17.00	12.00	15.08	17.00	12.00	15.08	17.00	
	116	5580	15.60	17.50	12.00	15.60	17.50	12.00	15.60	17.50	
	124	5620	15.58	17.50	12.00	15.58	17.50	12.00	15.58	17.50	
802.11ac-VHT40 MCS0	132	5660	15.54	17.50	12.00	15.54	17.50	12.00	15.54	17.50	94.96
	140	5700	13.94	15.00	12.00	13.94	15.00	12.00	13.94	15.00	
	144	5720	15.56	17.50	12.00	15.56	17.50	12.00	15.56	17.50	
	102	5510	11.10	13.00	12.00	11.10	13.00	12.00	11.10	13.00	
	110	5550	15.74	17.50	12.00	15.74	17.50	12.00	15.74	17.50	
802.11ac-VHT80 MCS0	128	5630	15.70	17.50	12.00	15.70	17.50	12.00	15.70	17.50	89.92
	134	5670	14.13	16.00	12.00	14.13	16.00	12.00	14.13	16.00	
	142	5710	15.69	17.50	10.12	12.00	12.13	14.00	12.00	12.13	
138	5690	14.10	16.00	10.09	12.00	14.10	16.00	12.00	14.10	16.00	16.00

5.8GHz WLAN_Ant_22												
Mode	Channel	Frequency (MHz)	Full Power		Head(Receiver on)		Body(Standalone)		Body(Simultaneous&Hotspot)		Duty Cycle %	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	149	5745	15.76	17.50	12.00	15.76	17.50	12.00	15.85	17.50	97.46	
	157	5785	15.85	17.50	12.00	15.85	17.50	12.00	15.85	17.50		
	165	5825	15.72	17.50	12.00	15.72	17.50	12.00	15.72	17.50		
802.11n-HT20 MCS0	149	5745	15.79	17.50	12.00	15.79	17.50	12.00	15.79	17.50	97.28	
	157	5785	15.82	17.50	12.00	15.82	17.50	12.00	15.82	17.50		
	165	5825	15.85	17.50	12.00	15.85	17.50	12.00	15.85	17.50		
802.11n-HT40 MCS0	151	5755	15.86	17.50	12.00	15.86	17.50	12.00	15.86	17.50	94.92	
	159	5795	15.83	17.50	12.00	15.83	17.50	12.00	15.83	17.50		
802.11ac-VHT20 MCS0	149	5745	15.73	17.50	12.00	15.73	17.50	12.00	15.73	17.50	97.31	
	157	5785	15.76	17.50	12.00	15.76	17.50	12.00	15.76	17.50		
	165	5825	15.79	17.50	12.00	15.79	17.50	12.00	15.79	17.50		
802.11ac-VHT40 MCS0	151	5755	15.74	17.50	12.00	15.74	17.50	12.00	15.74	17.50	94.96	
	159	5795	15.71	17.50	12.00	15.71	17.50	12.00	15.71	17.50		
802.11ac-VHT80 MCS0	155	5775	14.10	16.00	10.11	12.00	14.10	16.00	12.00	14.10	16.00	89.92



BR / EDR			Ant 22		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	10.40	7.30	7.10
	CH 39	2441	10.40	7.30	7.10
	CH 78	2480	10.50	7.40	7.30
Tune-up Limit			12	8.5	8.5

BLE			Average power (dBm)	
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps
			LE	CH 00
	CH 19	2440	6.60	6.50
	CH 39	2480	6.10	6.00
Tune-up Limit			8.00	