



REPORT No.: SZ21110262S01

## Annex E Conducted Power

### Full Power for ANT 2 & ANT 3

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	32.75	32.78	32.65	33.50	23.75	23.78	23.65	24.50	0.26
GPRS 1 Tx slot	32.69	32.68	32.52	33.50	23.69	23.68	23.52	24.50	
GPRS 2 Tx slots	30.78	30.83	30.72	31.50	24.78	24.83	24.72	25.50	0.11
GPRS 3 Tx slots	28.42	28.62	28.54	29.00	24.16	24.36	24.28	24.74	0.20
GPRS 4 Tx slots	27.71	27.70	27.63	28.50	24.71	24.70	24.63	25.50	0.08
EDGE 1 Tx slot	27.15	27.04	26.96	27.50	18.15	18.04	17.96	18.50	0.19
EDGE 2 Tx slots	24.71	24.60	24.49	25.50	18.71	18.60	18.49	19.50	0.22
EDGE 3 Tx slots	22.68	22.59	22.63	23.50	18.42	18.33	18.37	19.24	0.09
EDGE 4 Tx slots	21.04	21.12	21.23	21.50	18.04	18.12	18.23	18.50	0.19
Mode		Max.	32.78		Max.	24.83			
Attenuator	Cable Loss : 0.6								

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	30.40	30.36	30.38	31.00	21.40	21.36	21.38	22.00	0.09
GPRS 1 Tx slot	30.38	30.45	30.43	31.00	21.38	21.45	21.43	22.00	
GPRS 2 Tx slots	27.73	27.81	27.78	28.50	21.73	21.81	21.78	22.50	0.08
GPRS 3 Tx slots	25.68	25.99	25.79	26.50	21.42	21.73	21.53	22.24	0.31
GPRS 4 Tx slots	24.68	24.76	24.68	25.00	21.68	21.76	21.68	22.00	0.08
EDGE 1 Tx slot	25.99	26.01	25.94	27.00	16.99	17.01	16.94	18.00	0.07
EDGE 2 Tx slots	23.89	23.76	23.58	25.50	17.89	17.76	17.58	19.50	0.31
EDGE 3 Tx slots	22.58	22.71	22.64	23.50	18.32	18.45	18.38	19.24	0.13
EDGE 4 Tx slots	20.79	20.58	20.56	21.50	17.79	17.58	17.56	18.50	0.23
Mode		Max.	30.45		Max.	21.81			
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99 RMC 12.2Kbps	23.67	23.75	23.60	24.50	23.48	23.61	23.57	24.50	24.34	24.43	24.42	25.50
3GPP Rel 6 HSDPA Subtest-1	22.48	22.42	22.37	23.00	22.40	22.43	22.38	23.00	23.70	23.74	23.76	24.50
3GPP Rel 6 HSDPA Subtest-2	22.50	22.45	22.31	23.00	22.44	22.41	22.39	23.00	23.71	23.67	23.75	24.50
3GPP Rel 6 HSDPA Subtest-3	22.03	21.92	21.78	22.50	21.91	21.88	21.91	22.50	23.22	23.21	23.24	24.00
3GPP Rel 6 HSDPA Subtest-4	21.97	21.93	21.79	22.50	21.91	21.86	21.87	22.50	23.17	23.17	23.25	24.00
3GPP Rel 6 HSUPA Subtest-1	21.94	21.91	21.77	22.50	21.91	21.84	21.81	22.50	23.22	23.19	23.24	24.00
3GPP Rel 6 HSUPA Subtest-2	22.51	22.39	22.24	23.00	22.35	22.31	22.34	23.00	23.77	23.67	23.80	24.50
3GPP Rel 6 HSUPA Subtest-3	21.51	21.39	21.27	22.00	21.39	21.37	21.36	22.00	22.77	22.74	22.78	23.50
3GPP Rel 6 HSUPA Subtest-4	22.50	22.34	22.30	23.00	22.37	22.39	22.31	23.00	23.76	23.76	23.83	24.50
3GPP Rel 6 HSUPA Subtest-5	21.43	21.36	21.20	22.00	21.37	21.34	21.36	22.00	22.78	22.75	22.72	23.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	21.48	21.39	21.34	22.00	21.38	21.34	21.34	22.00	22.83	22.73	22.76	23.50
Attenuator	Cable Loss 0.8				Cable Loss 0.8				Cable Loss 0.6			
Mode		Max.	23.75		Max.	23.61			Max.	24.43		

Band 2 (1900MHz Band) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				18600	18800	19000	
20	QPSK	1	0	23.11	23.26	23.23	24
20	QPSK	1	49	23.16	23.21	23.15	
20	QPSK	1	99	22.97	22.97	23.05	
20	QPSK	50	0	22.23	22.30	22.22	23
20	QPSK	50	24	22.10	22.24	22.10	
20	QPSK	50	50	22.10	22.24	22.15	
20	QPSK	100	0	22.25	22.18	22.25	23
20	16QAM	1	0	22.37	22.42	22.16	
20	16QAM	1	49	22.36	22.38	22.12	
20	16QAM	1	99	22.10	22.20	22.46	23
20	16QAM	50	0	22.39	22.32	22.35	
20	16QAM	50	24	22.32	22.35	22.35	
20	16QAM	50	50	22.37	22.29	22.27	23
20	16QAM	100	0	22.27	22.34	22.34	
20	64QAM	1	0	22.40	22.17	22.31	
20	64QAM	1	49	22.32	22.35	22.17	23
20	64QAM	1	99	22.16	22.15	22.12	
20	64QAM	50	0	22.28	22.13	22.15	
20	64QAM	50	24	22.24	22.19	22.12	23
20	64QAM	50	50	22.25	22.11	22.33	
20	64QAM	100	0	22.27	22.24	22.10	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	18800	1902.5	
15	QPSK	1	0	23.23	23.24	23.21	24
15	QPSK	1	37	23.07	23.14	22.96	
15	QPSK	1	74	23.15	23.01	22.88	
15	QPSK	36	0	22.26	22.29	22.15	23
15	QPSK	36	20	22.28	22.18	22.11	
15	QPSK	36	39	22.25	22.14	22.10	
15	QPSK	75	0	22.26	22.22	22.12	23
15	16QAM	1	0	22.57	22.14	22.38	
15	16QAM	1	37	22.31	22.36	22.12	
15	16QAM	1	74	22.33	22.20	22.25	23
15	16QAM	36	0	22.29	22.17	22.13	
15	16QAM	36	20	22.30	22.15	22.12	
15	16QAM	36	39	22.29	22.25	22.23	23
15	16QAM	75	0	22.30	22.11	22.13	
15	64QAM	1	0	22.25	22.30	22.14	
15	64QAM	1	37	22.18	22.12	22.44	23
15	64QAM	1	74	22.40	22.15	22.13	
15	64QAM	36	0	22.27	22.13	22.11	
15	64QAM	36	20	22.25	22.22	22.17	23
15	64QAM	36	39	22.31	22.17	22.12	
15	64QAM	75	0	22.18	22.15	22.14	
Channel				18650	18900	19150	
Frequency (MHz)				1855	18800	1905	
10	QPSK	1	0	22.92	23.20	23.19	24
10	QPSK	1	25	23.12	23.04	23.11	
10	QPSK	1	49	23.12	23.11	23.09	
10	QPSK	25	0	22.14	22.21	22.13	23
10	QPSK	25	12	22.18	22.15	22.19	
10	QPSK	25	25	22.18	22.10	22.12	
10	QPSK	50	0	22.14	22.23	22.10	23
10	16QAM	1	0	22.11	22.28	22.27	
10	16QAM	1	25	22.14	22.23	22.13	
10	16QAM	1	49	22.24	22.16	22.25	23
10	16QAM	25	0	22.29	22.24	22.19	
10	16QAM	25	12	22.36	22.30	22.13	
10	16QAM	25	25	22.14	22.15	22.16	23
10	16QAM	50	0	22.33	22.10	22.23	
10	64QAM	1	0	22.11	22.16	22.18	
10	64QAM	1	25	22.37	22.35	22.16	23
10	64QAM	1	49	22.38	22.18	22.27	
10	64QAM	25	0	22.35	22.23	22.23	
10	64QAM	25	12	22.34	22.32	22.19	23
10	64QAM	25	25	22.28	22.16	22.14	
10	64QAM	50	0	22.22	22.13	22.17	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	18800	1907.5	
5	QPSK	1	0	22.71	23.10	22.73	24
5	QPSK	1	12	22.94	22.98	22.61	
5	QPSK	1	24	22.66	22.76	22.87	
5	QPSK	12	0	22.25	22.33	22.13	23
5	QPSK	12	7	22.33	22.31	22.18	
5	QPSK	12	13	22.18	22.17	22.25	
5	QPSK	25	0	22.18	22.20	22.34	23
5	16QAM	1	0	22.13	22.24	22.25	
5	16QAM	1	12	22.20	22.24	22.23	
5	16QAM	1	24	22.30	22.13	22.15	23
5	16QAM	12	0	22.28	22.20	22.23	
5	16QAM	12	7	22.38	22.29	22.27	
5	16QAM	12	13	22.27	22.27	22.27	23
5	16QAM	25	0	22.23	22.30	22.25	
5	64QAM	1	0	22.11	22.46	22.22	
5	64QAM	1	12	22.15	22.34	22.42	23
5	64QAM	1	24	22.18	22.12	22.20	
5	64QAM	12	0	22.25	22.20	22.29	
5	64QAM	12	7	22.36	22.28	22.27	23
5	64QAM	12	13	22.21	22.22	22.23	
5	64QAM	25	0	22.16	22.33	22.25	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	18800	1908.5	
3	QPSK	1	0	23.04	23.15	22.82	24
3	QPSK	1	8	23.07	22.89	22.86	
3	QPSK	1	14	23.09	22.97	22.87	
3	QPSK	8	0	22.25	22.32	22.22	23
3	QPSK	8	4	22.14	22.28	22.23	
3	QPSK	8	7	22.12	22.25	22.31	
3	QPSK	15	0	22.21	22.29	22.17	23
3	16QAM	1	0	22.24	22.29	22.31	

Band 4 (AWS Band) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.18	23.28	23.17	24
20	QPSK	1	49	23.18	23.12	23.12	
20	QPSK	1	99	23.10	23.14	23.18	
20	QPSK	50	0	22.19	22.48	22.41	23
20	QPSK	50	24	22.18	22.11	22.35	
20	QPSK	50	50	22.37	22.22	22.19	
20	QPSK	100	0	22.31	22.15	22.34	23
20	16QAM	1	0	22.15	22.11	22.22	
20	16QAM	1	49	22.44	22.34	22.41	
20	16QAM	1	99	22.29	22.10	22.13	23
20	16QAM	50	0	22.16	22.23	22.36	
20	16QAM	50	24	22.26	22.14	22.30	
20	16QAM	50	50	22.40	22.15	22.18	23
20	16QAM	100	0	22.26	22.19	22.42	
20	64QAM	1	0	22.17	22.38	22.14	
20	64QAM	1	49	22.29	22.28	22.26	23
20	64QAM	1	99	22.13	22.25	22.16	
20	64QAM	50	0	22.19	22.26	22.37	
20	64QAM	50	24	22.28	22.10	22.30	23
20	64QAM	50	50	22.25	22.11	22.22	
20	64QAM	100	0	22.29	22.12	22.38	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.22	23.34	23.10	24
15	QPSK	1	37	23.22	23.22	23.30	
15	QPSK	1	74	22.92	22.86	23.01	
15	QPSK	36	0	22.16	22.18	22.25	23
15	QPSK	36	20	22.25	22.20	22.21	
15	QPSK	36	39	22.26	22.13	22.17	
15	QPSK	75	0	22.22	22.24	22.25	23
15	16QAM	1	0	22.24	22.24	22.26	
15	16QAM	1	37	22.13	22.53	22.21	
15	16QAM	1	74	22.39	22.14	22.24	23
15	16QAM	36	0	22.11	22.10	22.24	
15	16QAM	36	20	22.14	22.21	22.24	
15	16QAM	36	39	22.39	22.14	22.20	23
15	16QAM	75	0	22.33	22.17	22.28	
15	64QAM	1	0	22.11	22.18	22.12	
15	64QAM	1	37	22.26	22.16	22.15	23
15	64QAM	1	74	22.11	22.25	22.10	
15	64QAM	36	0	22.19	22.25	22.26	
15	64QAM	36	20	22.28	22.12	22.16	23
15	64QAM	36	39	22.19	22.11	22.23	
15	64QAM	75	0	22.24	22.14	22.24	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.05	23.44	23.21	24
10	QPSK	1	25	23.28	23.27	23.29	
10	QPSK	1	49	23.05	23.09	23.04	
10	QPSK	25	0	22.38	22.23	22.32	23
10	QPSK	25	12	22.22	22.19	22.25	
10	QPSK	25	25	22.31	22.25	22.24	
10	QPSK	50	0	22.39	22.17	22.31	23
10	16QAM	1	0	22.44	22.26	22.22	
10	16QAM	1	25	22.56	22.25	22.39	
10	16QAM	1	49	22.24	22.11	22.32	23
10	16QAM	25	0	22.27	22.31	22.30	
10	16QAM	25	12	22.28	22.19	22.27	
10	16QAM	25	25	22.30	2		

3	16QAM	1	8	22.30	22.12	22.36	23
3	16QAM	1	14	22.41	22.49	22.20	
3	16QAM	8	0	22.26	22.24	22.27	
3	16QAM	8	4	22.39	22.30	22.31	
3	16QAM	8	7	22.26	22.22	22.12	23
3	16QAM	15	0	22.21	22.24	22.23	
3	64QAM	1	0	22.22	22.30	22.29	
3	64QAM	1	8	22.29	22.19	22.16	23
3	64QAM	1	14	22.23	22.17	22.19	
3	64QAM	8	0	22.30	22.29	22.13	
3	64QAM	8	4	22.23	22.23	22.20	
3	64QAM	8	7	22.22	22.20	22.16	23
3	64QAM	15	0	22.36	22.30	22.21	
Channel				18007	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.88	23.23	22.94	24
1.4	QPSK	1	3	23.16	23.11	23.18	
1.4	QPSK	1	5	23.01	23.00	23.19	
1.4	QPSK	3	0	22.12	22.20	22.15	
1.4	QPSK	3	1	22.35	22.28	22.19	
1.4	QPSK	3	3	22.18	22.21	22.15	
1.4	QPSK	6	0	22.33	22.26	22.11	23
1.4	16QAM	1	0	22.51	22.41	22.26	23
1.4	16QAM	1	3	22.10	22.12	22.38	
1.4	16QAM	1	5	22.15	22.28	22.12	
1.4	16QAM	3	0	22.17	22.10	22.23	
1.4	16QAM	3	1	22.21	22.15	22.19	
1.4	16QAM	3	3	22.10	22.24	22.14	
1.4	16QAM	6	0	22.31	22.19	22.14	23
1.4	64QAM	1	0	22.12	22.22	22.15	23
1.4	64QAM	1	3	22.24	22.25	22.20	
1.4	64QAM	1	5	22.44	22.19	22.15	
1.4	64QAM	3	0	22.18	22.11	22.10	
1.4	64QAM	3	1	22.28	22.12	22.14	
1.4	64QAM	3	3	22.24	22.14	22.19	
1.4	64QAM	6	0	22.18	22.20	22.10	23

3	16QAM	1	8	22.42	22.51	22.42	23
3	16QAM	1	14	22.33	22.31	22.37	
3	16QAM	8	0	22.30	22.18	22.30	
3	16QAM	8	4	22.41	22.29	22.41	
3	16QAM	8	7	22.32	22.36	22.23	23
3	16QAM	15	0	22.15	22.28	22.29	
3	64QAM	1	0	22.23	22.18	22.28	
3	64QAM	1	8	22.23	22.31	22.34	23
3	64QAM	1	14	22.32	22.13	22.26	
3	64QAM	8	0	22.26	22.12	22.25	
3	64QAM	8	4	22.29	22.19	22.27	
3	64QAM	8	7	22.22	22.23	22.24	23
3	64QAM	15	0	22.29	22.13	22.16	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.25	23.26	23.09	24
1.4	QPSK	1	3	23.11	23.12	23.11	
1.4	QPSK	1	5	23.16	23.06	23.10	
1.4	QPSK	3	0	22.26	22.30	22.16	
1.4	QPSK	3	1	22.23	22.29	22.28	
1.4	QPSK	3	3	22.28	22.10	22.13	
1.4	QPSK	6	0	22.27	22.23	22.22	23
1.4	16QAM	1	0	22.19	22.26	22.18	23
1.4	16QAM	1	3	22.44	22.29	22.35	
1.4	16QAM	1	5	22.52	22.24	22.61	
1.4	16QAM	3	0	22.17	22.14	22.21	
1.4	16QAM	3	1	22.30	22.30	22.25	
1.4	16QAM	3	3	22.16	22.26	22.22	
1.4	16QAM	6	0	22.29	22.27	22.37	23
1.4	64QAM	1	0	22.30	22.17	22.37	23
1.4	64QAM	1	3	22.41	22.26	22.44	
1.4	64QAM	1	5	22.17	22.11	22.24	
1.4	64QAM	3	0	22.28	22.11	22.25	
1.4	64QAM	3	1	22.25	22.21	22.19	
1.4	64QAM	3	3	22.16	22.21	22.12	
1.4	64QAM	6	0	22.24	22.32	22.26	23

Band 5 (Cellular Band) Part 22H(only on channel required)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.26	24.42	24.11	25
10	QPSK	1	25	24.34	24.34	24.41	
10	QPSK	1	49	24.27	24.29	24.20	
10	QPSK	25	0	23.14	23.43	23.22	24
10	QPSK	25	12	23.16	23.11	23.18	
10	QPSK	25	25	23.27	23.16	23.14	
10	QPSK	50	0	23.18	23.14	23.08	24
10	16QAM	1	0	23.50	23.56	23.46	
10	16QAM	1	25	23.53	23.53	23.48	
10	16QAM	1	49	23.48	23.30	23.44	24
10	16QAM	25	0	23.31	23.18	23.41	
10	16QAM	25	12	23.31	23.24	23.34	
10	16QAM	25	25	23.35	23.21	23.12	24
10	16QAM	50	0	23.25	23.24	23.14	
10	64QAM	1	0	23.23	23.40	23.48	
10	64QAM	1	25	23.44	23.30	23.35	24
10	64QAM	1	49	23.43	23.10	23.38	
10	64QAM	25	0	23.20	23.23	23.37	
10	64QAM	25	12	23.36	23.35	23.25	24
10	64QAM	25	25	23.41	23.09	23.11	
10	64QAM	50	0	23.28	23.17	23.14	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.27	24.39	24.22	25
5	QPSK	1	12	24.26	24.26	24.22	
5	QPSK	1	24	24.19	24.17	24.13	
5	QPSK	12	0	23.42	23.43	23.29	24
5	QPSK	12	7	23.33	23.25	23.19	
5	QPSK	12	13	23.33	23.26	23.14	
5	QPSK	25	0	23.28	23.27	23.16	24
5	16QAM	1	0	23.26	23.39	23.08	
5	16QAM	1	12	23.51	23.37	23.37	
5	16QAM	1	24	23.23	23.33	23.53	24
5	16QAM	12	0	23.26	23.17	23.17	
5	16QAM	12	7	23.38	23.28	23.23	
5	16QAM	12	13	23.31	23.21	22.99	24
5	16QAM	25	0	23.30	23.12	23.01	
5	64QAM	1	0	23.44	23.28	23.23	
5	64QAM	1	12	23.50	23.43	23.44	24
5	64QAM	1	24	23.43	23.05	23.23	
5	64QAM	12	0	23.22	23.06	23.11	
5	64QAM	12	7	23.29	23.30	23.13	24
5	64QAM	12	13	23.22	23.19	23.10	
5	64QAM	25	0	23.20	23.24	23.17	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.18	24.29	24.11	25
3	QPSK	1	8	24.25	24.17	24.12	
3	QPSK	1	14	24.21	24.15	24.22	
3	QPSK	8	0	23.31	23.43	23.31	24
3	QPSK	8	4	23.31	23.19	23.30	
3	QPSK	8	7	23.34	23.25	23.12	
3	QPSK	15	0	23.25	23.16	23.25	24
3	16QAM	1	0	23.18	23.30	23.19	
3	16QAM	1	8	23.20	23.20	23.20	
3	16QAM	1	14	23.21	23.05	23.04	24
3	16QAM	8	0	23.24	23.03	23.26	
3	16QAM	8	4	23.31	23.24	23.16	
3	16QAM	8	7	23.30	23.11	23.13	24
3	16QAM	15	0	23.18	23.11	23.31	
3	64QAM	1	0	23.44	23.28	23.29	
3	64QAM	1	8	23.36	23.52	23.28	24
3	64QAM	1	14	23.39	23.06	23.18	
3	64QAM	8	0	23.35	23.39	23.20	
3	64QAM	8	4	23.27	23.34	23.36	24
3	64QAM	8	7	23.39	23.21	23.21	
3	64QAM	15	0	23.39	23.31	23.37	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.27	24.29	24.25	25
1.4	QPSK	1	3	24.27	24.18	24.15	
1.4	QPSK	1	5	24.17	24.11	24.23	
1.4	QPSK	3	0	23.20	23.31	23.24	24
1.4	QPSK	3	1	23.07	23.15	23.07	
1.4	QPSK	3	3	23.20	23.16	23.15	
1.4	QPSK	6	0	23.50	23.35	23.42	24
1.4	16QAM	1	0	23.38	23.19	23.41	
1.4	16QAM	1	3	23.55	23.41	23.48	
1.4	16QAM	1	5	23.34	23.50	23.42	24
1.4	16QAM	3	0	23.47	23.38	23.38	
1.4	16QAM	3	1	23.37	23.52	23.38	
1.4	16QAM	3	3	23.41	23.27	23.26	24
1.4	16QAM	6	0	23.33	23.30	23.35	
1.4	64QAM	1	0	23.37	23.44	23.28	
1.4	64QAM	1	3	23.28	23.36	23.46	24
1.4	64QAM	1	5	23.38	23.39	23.28	
1.4	64QAM	3	0	23.32	23.44	23.33	
1.4	64QAM	3	1	23.39	23.36	23.51	24
1.4	64QAM	3	3	23.26	23.25	23.28	
1.4	64QAM	6	0	23.28	23.28	23.26	

Band 7 (2600MHz Band) Part 27							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.02	23.16	23.13	24
20	QPSK	1	49	23.11	23.10	23.11	
20	QPSK	1	99	22.99	23.05	23.10	
20	QPSK	50	0	22.22	22.36	22.16	23
20	QPSK	50	24	22.21	22.26	22.25	
20	QPSK	50	50	22.30	22.29	22.25	
20	QPSK	100	0	22.27	22.24	22.21	23
20	16QAM	1	0	22.23	22.34	22.32	
20	16QAM	1	49	22.35	22.23	22.16	
20	16QAM	1	99	22.39	22.20	22.29	23
20	16QAM	50	0	22.03	22.14	22.15	
20	16QAM	50	24	22.21	22.12	22.17	
20	16QAM	50	50	22.27	22.23	22.19	23
20	16QAM	100	0	22.18	22.10	22.12	
20	64QAM	1	0	22.28	22.30	22.30	
20	64QAM	1	49	22.22	22.25	22.27	23
20	64QAM	1	99	22.32	22.28	22.24	
20	64QAM	50	0	21.99	22.23	22.12	
20	64QAM	50	24	22.13	22.14	22.16	23
20	64QAM	50	50	22.20	22.17	22.16	
20	64QAM	100	0	22.11	22.17	22.12	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.12	23.14	23.05	24
15	QPSK	1	37	23.09	23.06	23.10	
15	QPSK	1	74	23.09	23.04	23.12	
15	QPSK	36	0	22.14	22.34	22.19	23
15	QPSK	36	20	22.15	22.27	22.19	
15	QPSK	36	39	22.25	22.22	22.17	
15	QPSK	75	0	22.24	22.18	22.14	23
15	16QAM	1	0	22.39	21.96	22.17	
15	16QAM	1	37	22.06	22.37	22.31	
15	16QAM	1	74	22.38	22.28	22.36	23
15	16QAM	36	0	22.13	22.10	22.12	
15	16QAM	36	20	22.14	22.13	22.24	
15	16QAM	36	39	22.16	22.09	22.20	23
15	16QAM	75	0	22.26	22.21	22.11	
15	64QAM	1	0	22.30	22.36	22.28	
15	64QAM	1	37	22.37	22.39	22.23	23
15	64QAM	1	74	22.21	22.24	22.21	
15	64QAM	36	0	22.08	22.07	22.17	
15	64QAM	36	20	22.11	22.27	22.13	23
15	64QAM	36	39	22.22	22.14	22.11	
15	64QAM	75	0	22.20	22.20	22.18	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.04	23.08	22.91	24
10	QPSK	1	25	23.01	22.93	23.06	
10	QPSK	1	49	23.04	22.94	22.90	
10	QPSK	25	0	22.10	22.26	22.20	23
10	QPSK	25	12	22.12	22.16	22.06	
10	QPSK	25	25	22.15	22.12	22.25	
10	QPSK	50	0	22.24	22.06	22.16	23
10	16QAM	1	0	22.07	22.33	22.13	
10	16QAM	1	25	22.10	22.21	22.19	
10	16QAM	1	49	22.17	21.88	22.16	23
10	16QAM	25	0	22.02	22.07	22.25	
10	16QAM	25	12	22.09	22.14	22.18	
10	16QAM	25	25	22.12	22.12	22.23	23
10	16QAM	50	0	22.20	21.98	22.15	
10	64QAM	1	0	22.09	22.06	22.22	
10	64QAM	1	25	22.20	22.21	22.07	23
10	64QAM	1	49	22.16	22.00	22.12	
10	64QAM	25	0	22.06	22.01	22.10	
10	64QAM	25	12	21.96	22.09	22.16	23
10	64QAM	25	25	22.18	22.09	22.24	
10	64QAM	50	0	22.19	22.02	22.14	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	Q						

Band 13(700MHz Band) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			25
Frequency (MHz)				782			
10	QPSK	1	0		24.30		25
10	QPSK	1	25		24.02		
10	QPSK	1	49		24.12		
10	QPSK	25	0		23.30		24
10	QPSK	25	12		23.15		
10	QPSK	25	25		23.21		
10	QPSK	50	0		23.15		24
10	16QAM	1	0		23.27		
10	16QAM	1	25		23.20		
10	16QAM	1	49		23.29		24
10	16QAM	25	0		23.09		
10	16QAM	25	12		23.05		
10	16QAM	25	25		23.14		24
10	16QAM	50	0		23.11		
10	64QAM	1	0		23.10		
10	64QAM	1	25		23.17		24
10	64QAM	1	49		23.08		
10	64QAM	25	0		22.98		
10	64QAM	25	12		23.20		24
10	64QAM	25	25		23.19		
10	64QAM	50	0		23.13		
Channel				23205			25
Frequency (MHz)				779.5			
5	QPSK	1	0	24.10	24.23	24.06	25
5	QPSK	1	12	24.16	24.13	24.09	
5	QPSK	1	24	24.10	24.02	24.09	
5	QPSK	12	0	23.03	23.14	23.13	24
5	QPSK	12	7	23.05	22.99	22.96	
5	QPSK	12	13	23.03	23.01	22.99	
5	QPSK	25	0	23.03	22.91	23.00	24
5	16QAM	1	0	23.01	23.25	23.23	
5	16QAM	1	12	23.18	23.24	23.14	
5	16QAM	1	24	23.16	23.05	22.88	24
5	16QAM	12	0	23.06	23.09	23.00	
5	16QAM	12	7	22.96	23.13	23.04	
5	16QAM	12	13	23.03	22.99	22.99	24
5	16QAM	25	0	23.02	22.98	23.00	
5	64QAM	1	0	23.12	22.94	22.98	
5	64QAM	1	12	23.15	23.15	23.37	24
5	64QAM	1	24	22.93	23.06	22.90	
5	64QAM	12	0	22.92	22.92	22.96	
5	64QAM	12	7	22.96	22.96	22.96	24
5	64QAM	12	13	23.08	22.90	22.98	
5	64QAM	25	0	23.04	22.93	23.06	

Band 26 for FCC (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765			25
Frequency (MHz)				821.5			
15	QPSK	1	0	24.03	24.23	24.07	25
15	QPSK	1	37	24.11	24.05	24.13	
15	QPSK	1	74	24.05	24.02	24.02	
15	QPSK	36	0	23.03	23.26	23.01	24
15	QPSK	36	20	23.15	23.11	23.03	
15	QPSK	36	39	23.14	23.13	23.10	
15	QPSK	75	0	23.00	22.95	22.95	24
15	16QAM	1	0	23.31	23.02	23.27	
15	16QAM	1	37	23.08	23.17	23.24	
15	16QAM	1	74	23.44	23.05	23.13	24
15	16QAM	36	0	23.12	23.04	23.11	
15	16QAM	36	20	23.04	23.05	23.18	
15	16QAM	36	39	23.08	22.96	23.08	24
15	16QAM	75	0	23.00	23.00	23.09	
15	64QAM	1	0	23.06	23.43	23.03	
15	64QAM	1	37	23.15	23.14	23.27	24
15	64QAM	1	74	22.96	23.33	23.07	
15	64QAM	36	0	23.14	23.23	23.10	
15	64QAM	36	20	23.17	23.14	23.22	24
15	64QAM	36	39	23.11	23.11	23.12	
15	64QAM	75	0	23.11	23.12	23.19	
Channel				26740			25
Frequency (MHz)				819			
10	QPSK	1	0	24.03	24.18	24.16	25
10	QPSK	1	25	24.04	24.15	24.09	
10	QPSK	1	49	24.07	24.02	24.03	
10	QPSK	25	0	23.01	23.23	23.10	24
10	QPSK	25	12	22.99	23.08	23.09	
10	QPSK	25	25	23.07	23.06	22.95	
10	QPSK	50	0	23.12	23.11	23.00	24
10	16QAM	1	0	23.04	23.13	23.36	
10	16QAM	1	25	23.18	23.32	23.45	
10	16QAM	1	49	23.19	23.24	23.16	24
10	16QAM	25	0	23.16	23.02	23.06	
10	16QAM	25	12	23.17	23.06	23.13	
10	16QAM	25	25	23.05	23.00	23.10	24
10	16QAM	50	0	23.15	23.06	23.11	
10	64QAM	1	0	23.09	23.18	23.13	
10	64QAM	1	25	23.33	23.32	23.28	24
10	64QAM	1	49	23.07	23.06	22.98	
10	64QAM	25	0	22.98	23.09	23.16	
10	64QAM	25	12	23.00	23.16	23.07	24
10	64QAM	25	25	23.04	23.30	23.04	
10	64QAM	50	0	23.19	23.16	23.01	
Channel				26715			25
Frequency (MHz)				816.5			
5	QPSK	1	0	24.04	24.13	24.11	25
5	QPSK	1	12	24.10	24.06	24.08	
5	QPSK	1	24	24.11	24.09	24.03	
5	QPSK	12	0	23.15	23.22	23.19	24
5	QPSK	12	7	23.24	23.10	23.15	
5	QPSK	12	13	23.19	23.16	23.01	
5	QPSK	25	0	23.14	23.17	23.11	24
5	16QAM	1	0	23.15	23.05	23.03	
5	16QAM	1	12	23.35	23.26	23.28	
5	16QAM	1	24	23.35	22.92	23.22	24
5	16QAM	12	0	22.98	23.18	23.23	
5	16QAM	12	7	23.10	23.28	23.06	
5	16QAM	12	13	23.05	23.21	23.15	24
5	16QAM	25	0	23.10	23.10	23.14	
5	64QAM	1	0	23.05	23.12	23.12	
5	64QAM	1	12	23.31	23.04	23.30	24
5	64QAM	1	24	23.14	23.16	23.16	
5	64QAM	12	0	23.07	23.12	23.02	
5	64QAM	12	7	23.24	23.15	23.04	24
5	64QAM	12	13	23.03	23.00	23.02	
5	64QAM	25	0	23.04	23.18	23.20	
Channel				26705			25
Frequency (MHz)				815.5			
3	QPSK	1	0	24.08	24.15	24.05	25
3	QPSK	1	8	24.05	24.01	24.12	
3	QPSK	1	14	24.02	24.13	24.11	
3	QPSK	8	0	23.14	23.26	23.27	24
3	QPSK	8	4	23.23	23.15	23.19	
3	QPSK	8	7	23.13	23.13	23.03	
3	QPSK	15	0	23.11	23.19	23.12	24
3	16QAM	1	0	23.42	23.10	23.23	
3	16QAM	1	8	23.28	23.14	23.12	
3	16QAM	1	14	23.32	23.08	22.98	24
3	16QAM	8	0	22.99	23.10	23.07	
3	16QAM	8	4	23.05	23.13	23.06	
3	16QAM	8	7	23.07	23.16	23.07	24
3	16QAM	15	0	23.07	23.01	23.00	
3	64QAM	1	0	22.99	23.12	23.01	
3	64QAM	1	8	23.34	23.08	23.02	24
3	64QAM	1	14	23.34	23.05	23.17	
3	64QAM	8	0	23.03	23.16	23.08	
3	64QAM	8	4	23.10	23.05	23.20	24
3	64QAM	8	7	23.14	23.12	23.17	
3	64QAM	15	0	23.15	22.99	23.06	
Channel				26697			25
Frequency (MHz)				814.7			
1.4	QPSK	1	0	24.14	24.16	24.01	25
1.4	QPSK	1	3	24.14	24.13	24.12	
1.4	QPSK	1	5	24.01	24.07	24.12	
1.4	QPSK	3	0	23.21	23.28	23.24	25
1.4	QPSK	3	1	23.27	23.22	23.27	
1.4	QPSK	3	3	23.23	23.09	23.23	
1.4	QPSK	6	0	23.14	23.10	23.11	25
1.4	16QAM	1	0	23.26	23.07	23.16	

1.4	16QAM	1	3	23.26	23.22	23.22	24
1.4	16QAM	1	5	23.16	23.12	22.99	
1.4	16QAM	3	0	23.12	23.17	23.12	
1.4	16QAM	3	1	23.00	23.05	23.18	24
1.4	16QAM	3	3	23.13	23.05	22.99	
1.4	16QAM	6	0	23.15	23.13	23.23	
1.4	64QAM	1	0	23.28	23.20	23.04	24
1.4	64QAM	1	3	23.04	23.22	23.22	
1.4	64QAM	1	5	22.99	23.25	23.09	
1.4	64QAM	3	0	23.10	23.16	23.05	24
1.4	64QAM	3	1	23.07	23.13	23.16	
1.4	64QAM	3	3	23.07	23.04	23.01	
1.4	64QAM	6	0	23.05	23.02	23.14	

## Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.99	23.20	23.03	24
20	QPSK	1	49	23.06	23.05	23.07	
20	QPSK	1	99	22.97	22.99	22.89	
20	QPSK	50	0	22.10	22.16	22.06	23
20	QPSK	50	24	22.07	22.13	22.07	
20	QPSK	50	50	22.07	22.11	22.05	
20	QPSK	100	0	22.03	22.03	22.09	23
20	16QAM	1	0	22.20	22.08	22.27	
20	16QAM	1	49	22.49	22.21	22.23	
20	16QAM	1	99	22.23	22.18	22.10	23
20	16QAM	50	0	22.13	22.15	22.02	
20	16QAM	50	24	22.19	22.14	22.18	
20	16QAM	50	50	22.16	22.11	22.12	23
20	16QAM	100	0	22.12	22.17	22.09	
20	64QAM	1	0	22.07	22.02	22.04	
20	64QAM	1	49	22.04	22.41	22.26	23
20	64QAM	1	99	22.14	22.15	22.08	
20	64QAM	50	0	22.09	22.09	22.05	
20	64QAM	50	24	22.27	22.23	22.15	23
20	64QAM	50	50	22.17	22.08	22.09	
20	64QAM	100	0	22.11	22.14	22.09	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.01	23.18	23.14	24
15	QPSK	1	37	23.13	23.10	23.04	
15	QPSK	1	74	23.04	23.12	23.12	
15	QPSK	36	0	22.09	22.11	22.09	23
15	QPSK	36	20	22.06	22.01	22.02	
15	QPSK	36	39	22.11	22.15	22.18	
15	QPSK	75	0	22.03	22.10	22.04	23
15	16QAM	1	0	22.05	22.03	22.08	
15	16QAM	1	37	22.23	22.01	22.13	
15	16QAM	1	74	22.02	22.12	22.15	23
15	16QAM	36	0	22.13	22.05	22.08	
15	16QAM	36	20	22.05	22.07	22.10	
15	16QAM	36	39	22.17	22.13	22.10	23
15	16QAM	75	0	22.18	22.06	22.05	
15	64QAM	1	0	22.06	22.32	22.29	
15	64QAM	1	37	22.12	22.20	22.22	23
15	64QAM	1	74	22.10	22.38	22.02	
15	64QAM	36	0	22.06	22.19	22.18	
15	64QAM	36	20	22.05	22.17	22.09	23
15	64QAM	36	39	22.06	22.10	22.10	
15	64QAM	75	0	22.10	22.07	22.15	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.05	23.12	23.03	24
10	QPSK	1	25	23.11	23.05	23.09	
10	QPSK	1	49	23.11	23.03	23.00	
10	QPSK	25	0	22.04	22.11	22.04	23
10	QPSK	25	12	22.09	22.08	22.04	
10	QPSK	25	25	22.09	22.08	22.01	
10	QPSK	50	0	22.08	22.07	22.07	23
10	16QAM	1	0	22.10	22.15	22.16	
10	16QAM	1	25	22.37	22.07	22.17	
10	16QAM	1	49	22.11	22.29	22.21	23
10	16QAM	25	0	22.18	22.21	22.19	
10	16QAM	25	12	22.31	22.29	22.16	
10	16QAM	25	25	22.20	22.22	22.09	23
10	16QAM	50	0	22.23	22.21	22.15	
10	64QAM	1	0	22.41	22.08	22.28	
10	64QAM	1	25	22.12	22.19	22.30	23
10	64QAM	1	49	22.06	22.04	22.18	
10	64QAM	25	0	22.18	22.14	22.08	
10	64QAM	25	12	22.11	22.28	22.20	23
10	64QAM	25	25	22.17	22.24	22.20	
10	64QAM	50	0	22.06	22.06	22.09	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.99	23.09	23.05	24
5	QPSK	1	12	23.07	23.03	23.00	
5	QPSK	1	24	23.06	23.05	22.90	
5	QPSK	12	0	22.05	22.12	22.07	23
5	QPSK	12	7	22.09	22.04	22.01	
5	QPSK	12	13	22.04	22.07	22.00	
5	QPSK	25	0	22.02	22.06	22.09	23
5	16QAM	1	0	22.03	22.28	22.16	
5	16QAM	1	12	22.07	22.39	22.00	
5	16QAM	1	24	22.01	22.10	22.19	23
5	16QAM	12	0	22.09	22.13	22.18	
5	16QAM	12	7	22.31	22.15	22.07	
5	16QAM	12	13	22.11	22.17	22.11	23
5	16QAM	25	0	22.22	22.22	22.10	
5	64QAM	1	0	22.05	22.18	22.09	
5	64QAM	1	12	22.39	22.27	22.43	23
5	64QAM	1	24	22.23	22.09	22.13	
5	64QAM	12	0	22.07	22.13	22.22	
5	64QAM	12	7	22.20	22.12	22.07	23
5	64QAM	12	13	22.08	22.07	22.23	
5	64QAM	25	0	22.10	22.16	22.19	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.04	23.15	23.13	24
3	QPSK	1	8	23.11	23.00	23.05	
3	QPSK	1	14	23.01	22.96	23.05	
3	QPSK	8	0	22.11	22.14	22.08	23
3	QPSK	8	4	22.15	22.13	22.12	
3	QPSK	8	7	22.08	22.13	22.08	
3	QPSK	15	0	22.12	22.11	22.06	23
3	16QAM	1	0	22.39	22.50	22.08	



3	16QAM	1	8	22.48	22.45	22.17	23
3	16QAM	1	14	22.15	22.14	22.15	
3	16QAM	8	0	22.16	22.21	22.04	23
3	16QAM	8	4	22.16	22.13	22.11	
3	16QAM	8	7	22.09	22.21	22.14	
3	16QAM	15	0	22.27	22.09	22.10	23
3	64QAM	1	0	22.08	22.09	22.13	
3	64QAM	1	8	22.11	22.36	22.37	
3	64QAM	1	14	22.09	22.09	22.32	23
3	64QAM	8	0	22.12	22.19	22.13	
3	64QAM	8	4	22.22	22.19	22.07	
3	64QAM	8	7	22.17	22.10	22.10	
3	64QAM	15	0	22.12	22.12	22.22	23
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.03	23.12	23.07	24
1.4	QPSK	1	3	23.06	23.11	23.11	
1.4	QPSK	1	5	23.06	22.94	23.05	
1.4	QPSK	3	0	22.03	22.11	22.02	24
1.4	QPSK	3	1	22.05	22.07	22.08	
1.4	QPSK	3	3	22.02	22.04	22.07	
1.4	QPSK	6	0	22.04	22.06	22.03	
1.4	16QAM	1	0	22.21	22.02	22.21	23
1.4	16QAM	1	3	22.26	22.12	22.28	
1.4	16QAM	1	5	22.15	22.09	22.20	
1.4	16QAM	3	0	22.25	22.28	22.08	23
1.4	16QAM	3	1	22.33	22.19	22.14	
1.4	16QAM	3	3	22.19	22.22	22.13	
1.4	16QAM	6	0	22.26	22.23	22.30	
1.4	64QAM	1	0	22.12	22.14	22.05	23
1.4	64QAM	1	3	22.42	22.04	22.09	
1.4	64QAM	1	5	22.32	22.02	22.16	
1.4	64QAM	3	0	22.36	22.34	22.41	23
1.4	64QAM	3	1	22.46	22.42	22.44	
1.4	64QAM	3	3	22.34	22.36	22.48	
1.4	64QAM	6	0	22.38	22.43	22.21	

## Band 7 (ANT 4)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.00	23.33	23.11	24
20	QPSK	1	49	23.09	23.08	23.09	
20	QPSK	1	99	23.17	23.03	23.08	
20	QPSK	50	0	22.20	22.34	22.14	23
20	QPSK	50	24	22.19	22.24	22.23	
20	QPSK	50	50	22.28	22.27	22.23	
20	QPSK	100	0	22.25	22.22	22.19	23
20	16QAM	1	0	22.21	22.32	22.30	
20	16QAM	1	49	22.33	22.21	22.14	
20	16QAM	1	99	22.37	22.18	22.27	23
20	16QAM	50	0	22.01	22.12	22.13	
20	16QAM	50	24	22.19	22.10	22.15	
20	16QAM	50	50	22.25	22.21	22.17	23
20	16QAM	100	0	22.16	22.08	22.10	
20	64QAM	1	0	22.26	22.28	22.28	
20	64QAM	1	49	22.20	22.23	22.25	23
20	64QAM	1	99	22.30	22.26	22.22	
20	64QAM	50	0	21.97	22.21	22.10	
20	64QAM	50	24	22.11	22.12	22.14	23
20	64QAM	50	50	22.18	22.15	22.14	
20	64QAM	100	0	22.09	22.15	22.10	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.10	23.18	23.09	24
15	QPSK	1	37	23.07	23.06	23.07	
15	QPSK	1	74	23.02	23.01	23.06	
15	QPSK	36	0	22.18	22.32	22.12	23
15	QPSK	36	20	22.17	22.22	22.21	
15	QPSK	36	39	22.26	22.25	22.21	
15	QPSK	75	0	22.23	22.20	22.17	23
15	16QAM	1	0	22.19	22.30	22.28	
15	16QAM	1	37	22.31	22.19	22.12	
15	16QAM	1	74	22.35	22.16	22.25	23
15	16QAM	36	0	21.99	22.10	22.11	
15	16QAM	36	20	22.17	22.08	22.13	
15	16QAM	36	39	22.23	22.19	22.15	23
15	16QAM	75	0	22.14	22.06	22.08	
15	64QAM	1	0	22.24	22.26	22.26	
15	64QAM	1	37	22.18	22.21	22.23	23
15	64QAM	1	74	22.28	22.24	22.20	
15	64QAM	36	0	21.95	22.19	22.08	
15	64QAM	36	20	22.09	22.10	22.12	23
15	64QAM	36	39	22.16	22.13	22.12	
15	64QAM	75	0	22.07	22.13	22.08	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.00	23.19	23.09	24
10	QPSK	1	25	23.08	23.07	23.07	
10	QPSK	1	49	23.13	23.02	23.06	
10	QPSK	25	0	22.19	22.33	22.12	23
10	QPSK	25	12	22.18	22.23	22.21	
10	QPSK	25	25	22.27	22.26	22.21	
10	QPSK	50	0	22.24	22.21	22.17	23
10	16QAM	1	0	22.20	22.31	22.28	
10	16QAM	1	25	22.32	22.20	22.12	
10	16QAM	1	49	22.36	22.17	22.25	23
10	16QAM	25	0	22.00	22.11	22.11	
10	16QAM	25	12	22.18	22.09	22.13	
10	16QAM	25	25	22.24	22.20	22.15	23
10	16QAM	50	0	22.15	22.07	22.08	
10	64QAM	1	0	22.25	22.27	22.26	
10	64QAM	1	25	22.19	22.22	22.23	23
10	64QAM	1	49	22.29	22.25	22.20	
10	64QAM	25	0	21.96	22.20	22.08	
10	64QAM	25	12	22.10	22.11	22.12	23
10	64QAM	25	25	22.17	22.14	22.12	
10	64QAM	50	0	22.08	22.14	22.08	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.04	23.16	23.13	24
5	QPSK	1	12	23.13	23.04	23.11	
5	QPSK	1	24	23.01	23.00	23.10	
5	QPSK	12	0	22.24	22.30	22.16	23
5	QPSK	12	7	22.23	22.20	22.25	
5	QPSK	12	13	22.32	22.23	22.25	
5	QPSK	25	0	22.29	22.18	22.21	23
5	16QAM	1	0	22.25	22.28	22.32	
5	16QAM	1	12	22.37	22.17	22.16	
5	16QAM	1	24	22.41	22.14	22.29	23
5	16QAM	12	0	22.05	22.08	22.15	
5	16QAM	12	7	22.23	22.06	22.17	
5	16QAM	12	13	22.29	22.17	22.19	23
5	16QAM	25	0	22.20	22.04	22.12	
5	64QAM	1	0	22.30	22.24	22.30	
5	64QAM	1	12	22.24	22.19	22.27	23
5	64QAM	1	24	22.34	22.22	22.24	
5	64QAM	12	0	22.01	22.17	22.12	
5	64QAM	12	7	22.15	22.08	22.16	23
5	64QAM	12	13	22.22	22.11	22.16	
5	64QAM	25	0	22.13	22.11	22.12	

## Full Power for ANT 0 & ANT 1

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	32.78	32.76	32.69	33.00	23.78	23.76	23.69	24.00	0.15
GPRS 1 Tx slot	32.80	32.84	32.70	33.00	23.80	23.84	23.70	24.00	
GPRS 2 Tx slots	30.81	30.81	30.76	31.50	24.81	24.81	24.76	25.50	0.05
GPRS 3 Tx slots	28.85	28.88	28.81	29.00	24.59	24.62	24.55	24.74	0.07
GPRS 4 Tx slots	27.74	27.68	27.67	28.00	24.74	24.68	24.67	25.00	0.07
EDGE 1 Tx slot	27.38	27.22	27.40	27.50	18.38	18.22	18.40	18.50	0.18
EDGE 2 Tx slots	24.74	24.38	24.53	25.50	18.74	18.38	18.53	19.50	0.36
EDGE 3 Tx slots	22.71	22.57	22.53	23.50	18.45	18.31	18.27	19.24	0.18
EDGE 4 Tx slots	21.07	21.00	20.95	21.50	18.07	18.00	17.95	18.50	0.12
Mode		Max.	32.84			Max.	24.81		
Attenuator	Cable Loss : 0.6								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	30.10	30.16	30.18	31.00	21.10	21.16	21.18	22.00	0.09
GPRS 1 Tx slot	30.12	30.19	30.17	31.00	21.12	21.19	21.17	22.00	
GPRS 2 Tx slots	27.75	27.81	27.78	28.50	21.75	21.81	21.78	22.50	0.06
GPRS 3 Tx slots	26.02	25.96	26.02	26.50	21.76	21.70	21.76	22.24	0.06
GPRS 4 Tx slots	24.70	24.73	24.71	25.00	21.70	21.73	21.71	22.00	0.03
EDGE 1 Tx slot	26.61	26.36	26.32	27.00	17.61	17.36	17.32	18.00	0.29
EDGE 2 Tx slots	24.11	23.93	23.81	25.50	18.11	17.93	17.81	19.50	0.30
EDGE 3 Tx slots	22.26	22.08	22.03	23.50	18.00	17.82	17.77	19.24	0.23
EDGE 4 Tx slots	20.65	20.71	20.69	21.50	17.65	17.71	17.69	18.50	0.06
Mode		Max.	30.19			Max.	21.81		
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99 RMC 12.2Kbps	23.49	23.54	23.50	24.50	23.48	23.60	23.55	24.50	24.63	24.65	24.61	25.50
3GPP Rel 6 HSDPA Subtest-1	22.56	22.53	22.50	23.00	22.52	22.52	22.51	23.00	23.57	23.53	23.67	24.50
3GPP Rel 6 HSDPA Subtest-2	22.48	22.52	22.50	23.00	22.53	22.44	22.40	23.00	23.58	23.55	23.60	24.50
3GPP Rel 6 HSDPA Subtest-3	22.01	22.07	22.01	22.50	22.03	21.96	21.94	22.50	23.15	23.06	23.07	24.00
3GPP Rel 6 HSDPA Subtest-4	22.04	22.04	21.97	22.50	22.01	21.94	21.93	22.50	23.08	23.09	23.12	24.00
3GPP Rel 6 HSUPA Subtest-1	22.01	22.03	21.98	22.50	22.00	21.92	21.93	22.50	23.09	22.99	23.02	23.50
3GPP Rel 6 HSUPA Subtest-2	22.50	22.57	22.50	23.00	22.52	22.50	22.47	23.00	23.59	23.56	23.55	24.00
3GPP Rel 6 HSUPA Subtest-3	21.55	21.54	21.55	22.00	21.54	21.46	21.48	22.00	22.62	22.57	22.57	23.50
3GPP Rel 6 HSUPA Subtest-4	22.49	22.53	22.52	23.00	22.50	22.52	22.44	23.00	23.54	23.50	23.60	24.00
3GPP Rel 6 HSUPA Subtest-5	21.54	21.55	21.52	22.00	21.50	21.52	21.50	22.00	22.58	22.56	22.54	23.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	21.48	21.54	21.43	22.00	21.48	21.42	21.42	22.00	22.66	22.55	22.44	23.00
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode		Max.	23.54			Max.	23.60			Max.	24.65	

Band 2 (1900MHz Band) Part 24E							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.77	23.11	22.95	
20	QPSK	1	49	23.02	23.06	22.81	
20	QPSK	1	99	22.83	22.82	22.91	
20	QPSK	50	0	22.24	22.30	22.23	
20	QPSK	50	24	22.11	22.24	22.08	23
20	QPSK	50	50	22.08	22.24	22.16	
20	QPSK	100	0	22.26	22.18	22.26	
20	16QAM	1	0	22.38	22.42	22.17	
20	16QAM	1	49	22.37	22.38	22.10	23
20	16QAM	1	99	22.08	22.20	22.47	
20	16QAM	50	0	22.40	22.32	22.36	
20	16QAM	50	24	22.33	22.35	22.36	
20	16QAM	50	50	22.38	22.29	22.28	23
20	16QAM	100	0	22.28	22.34	22.35	
20	64QAM	1	0	22.41	22.17	22.32	
20	64QAM	1	49	22.33	22.35	22.18	
20	64QAM	1	99	22.17	22.15	22.10	23
20	64QAM	50	0	22.27	22.13	22.16	
20	64QAM	50	24	22.25	22.19	22.13	
20	64QAM	50	50	22.26	22.08	22.34	
20	64QAM	100	0	22.28	22.24	22.08	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.07	23.08	23.05	24
15	QPSK	1	37	22.91	22.98	22.80	
15	QPSK	1	74	22.99	22.85	22.72	
15	QPSK	36	0	22.25	22.28	22.14	
15	QPSK	36	20	22.27	22.17	22.10	23
15	QPSK	36	39	22.24	22.13	22.09	
15	QPSK	75	0	22.25	22.21	22.11	
15	16QAM	1	0	22.56	22.13	22.37	
15	16QAM	1	37	22.30	22.35	22.11	23
15	16QAM	1	74	22.32	22.19	22.24	
15	16QAM	36	0	22.28	22.16	22.12	
15	16QAM	36	20	22.29	22.14	22.11	
15	16QAM	36	39	22.28	22.24	22.22	23
15	16QAM	75	0	22.29	22.10	22.12	
15	64QAM	1	0	22.24	22.29	22.13	
15	64QAM	1	37	22.17	22.11	22.43	
15	64QAM	1	74	22.39	22.14	22.12	23
15	64QAM	36	0	22.26	22.12	22.10	
15	64QAM	36	20	22.24	22.21	22.16	
15	64QAM	36	39	22.30	22.16	22.11	
15	64QAM	75	0	22.17	22.14	22.13	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.77	23.05	22.64	24
10	QPSK	1	25	22.95	22.83	22.74	
10	QPSK	1	49	22.95	22.90	22.72	
10	QPSK	25	0	22.14	22.21	22.13	
10	QPSK	25	12	22.18	22.15	22.19	23
10	QPSK	25	25	22.18	22.08	22.12	
10	QPSK	50	0	22.14	22.23	22.10	
10	16QAM	1	0	22.11	22.28	22.27	
10	16QAM	1	25	22.14	22.23	22.13	23
10	16QAM	1	49	22.24	22.16	22.25	
10	16QAM	25	0	22.29	22.24	22.19	
10	16QAM	25	12	22.36	22.30	22.13	
10	16QAM	25	25	22.14	22.15	22.16	23
10	16QAM	50	0	22.33	22.08	22.23	
10	64QAM	1	0	22.09	22.16	22.18	
10	64QAM	1	25	22.37	22.35	22.16	
10	64QAM	1	49	22.36	22.18	22.27	23
10	64QAM	25	0	22.35	22.23	22.23	
10	64QAM	25	12	22.34	22.32	22.19	
10	64QAM	25	25	22.28	22.16	22.14	
10	64QAM	50	0	22.22	22.13	22.17	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.53	22.91	22.53	24
5	QPSK	1	12	22.76	22.79	22.61	
5	QPSK	1	24	22.48	22.57	22.67	
5	QPSK	12	0	22.22	22.29	22.08	
5	QPSK	12	7	22.30	22.27	22.13	23
5	QPSK	12	13	22.15	22.13	22.20	
5	QPSK	25	0	22.15	22.16	22.29	
5	16QAM	1	0	22.10	22.20	22.20	
5	16QAM	1	12	22.17	22.20	22.18	23
5	16QAM	1	24	22.27	22.09	22.10	
5	16QAM	12	0	22.25	22.16	22.18	
5	16QAM	12	7	22.35	22.25	22.22	
5	16QAM	12	13	22.24	22.23	22.22	23
5	16QAM	25	0	22.20	22.26	22.20	
5	64QAM	1	0	22.08	22.42	22.17	
5	64QAM	1	12	22.12	22.30	22.37	
5	64QAM	1	24	22.15	22.08	22.15	23
5	64QAM	12	0	22.22	22.16	22.24	
5	64QAM	12	7	22.33	22.24	22.22	
5	64QAM	12	13	22.18	22.18	22.18	
5	64QAM	25	0	22.13	22.29	22.20	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.86	22.97	22.63	24
3	QPSK	1	8	22.89	22.71	22.67	
3	QPSK	1	14	22.91	22.79	22.68	
3	QPSK	8	0	22.22	22.29	22.18	
3	QPSK	8	4	22.11	22.25	22.19	23
3	QPSK	8	7	22.09	22.22	22.27	
3	QPSK	15	0	22.18	22.26	22.13	
3	16QAM	1	0	22.21	22.26	22.27	
3	16QAM	1	8	22.27	22.09	22.32	

Band 4 (AWS Band) Part 27L (only on channel required)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.88	23.16	22.76	
20	QPSK	1	49	22.98	22.90	22.91	
20	QPSK	1	99	22.90	22.82	22.87	
20	QPSK	50	0	22.30	22.57	22.51	
20	QPSK	50	24	22.29	22.20	22.45	23
20	QPSK	50	50	22.48	22.31	22.29	
20	QPSK	100	0	22.42	22.24	22.44	
20	16QAM	1	0	22.26	22.20	22.32	
20	16QAM	1	49	22.55	22.43	22.51	23
20	16QAM	1	99	22.40	22.19	22.23	
20	16QAM	50	0	22.27	22.32	22.46	
20	16QAM	50	24	22.37	22.23	22.40	
20	16QAM	50	50	22.51	22.24	22.28	23
20	16QAM	100	0	22.37	22.28	22.52	
20	64QAM	1	0	22.28	22.47	22.24	
20	64QAM	1	49	22.40	22.37	22.36	
20	64QAM	1	99	22.24	22.34	22.26	23
20	64QAM	50	0	22.30	22.35	22.47	
20	64QAM	50	24	22.39	22.19	22.40	
20	64QAM	50	50	22.36	22.20	22.32	
20	64QAM	100	0	22.40	22.21	22.48	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.11	23.22	23.00	24
15	QPSK	1	37	23.11	23.10	23.20	
15	QPSK	1	74	22.81	22.74	22.91	
15	QPSK	36	0	22.28	22.27	22.36	
15	QPSK	36	20	22.35	22.29	22.32	23
15	QPSK	36	39	22.36	22.22	22.28	
15	QPSK	75	0	22.32	22.33	22.36	
15	16QAM	1	0	22.34	22.33	22.37	
15	16QAM	1	37	22.23	22.62	22.32	23
15	16QAM	1	74	22.49	22.23	22.35	
15	16QAM	36	0	22.19	22.19	22.35	
15	16QAM	36	20	22.24	22.30	22.35	
15	16QAM	36	39	22.49	22.23	22.31	23
15	16QAM	75	0	22.43	22.26	22.39	
15	64QAM	1	0	22.21	22.27	22.23	
15	64QAM	1	37	22.36	22.25	22.26	
15	64QAM	1	74	22.21	22.34	22.21	23
15	64QAM	36	0	22.29	22.34	22.37	
15	64QAM	36	20	22.38	22.21	22.27	
15	64QAM	36	39	22.29	22.20	22.34	
15	64QAM	75	0	22.34	22.22	22.35	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.94	23.33	23.10	24
10	QPSK	1	25	23.17	23.16	23.18	
10	QPSK	1	49	22.94	22.98	22.93	
10	QPSK	25	0	22.48	22.33	22.42	
10	QPSK	25	12	22.32	22.29	22.35	23
10	QPSK	25	25	22.41	22.35	22.34	
10	QPSK	50	0	22.49	22.27	22.41	
10	16QAM	1	0	22.54	22.36	22.32	
10	16QAM	1	25	22.66	22.35	22.49	23
10	16QAM	1	49	22.34	22.19	22.42	
10	16QAM	25	0	22.37	22.41	22.40	
10	16QAM	25	12	22.38	22.29	22.37	
10	16QAM	25	25	22.40	22.30	22.34	23
10	16QAM	50	0	22.46			

3	16QAM	1	14	22.38	22.46	22.16	23
3	16QAM	8	0	22.23	22.21	22.23	
3	16QAM	8	4	22.36	22.27	22.27	
3	16QAM	8	7	22.23	22.19	22.08	
3	16QAM	15	0	22.18	22.21	22.19	
3	64QAM	1	0	22.19	22.27	22.25	
3	64QAM	1	8	22.26	22.16	22.12	
3	64QAM	1	14	22.20	22.14	22.15	
3	64QAM	8	0	22.27	22.26	22.09	
3	64QAM	8	4	22.20	22.20	22.16	
3	64QAM	8	7	22.19	22.17	22.12	
3	64QAM	15	0	22.33	22.27	22.17	
Channel				1860.7	1890.0	1919.3	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880.0	1909.3	
1.4	QPSK	1	0	22.74	23.09	22.60	24
1.4	QPSK	1	3	22.92	22.77	22.74	
1.4	QPSK	1	5	22.77	22.66	22.75	
1.4	QPSK	3	0	22.13	22.21	22.16	
1.4	QPSK	3	1	22.36	22.29	22.20	
1.4	QPSK	3	3	22.19	22.22	22.16	
1.4	QPSK	6	0	22.34	22.27	22.12	
1.4	16QAM	1	0	22.52	22.42	22.27	
1.4	16QAM	1	3	22.08	22.13	22.39	
1.4	16QAM	1	5	22.16	22.29	22.10	
1.4	16QAM	3	0	22.18	22.08	22.24	
1.4	16QAM	3	1	22.22	22.16	22.20	
1.4	16QAM	3	3	22.11	22.25	22.15	
1.4	16QAM	6	0	22.32	22.20	22.15	
1.4	64QAM	1	0	22.13	22.23	22.16	
1.4	64QAM	1	3	22.25	22.26	22.21	
1.4	64QAM	1	5	22.45	22.20	22.16	
1.4	64QAM	3	0	22.19	22.12	22.08	
1.4	64QAM	3	1	22.29	22.13	22.15	
1.4	64QAM	3	3	22.25	22.15	22.20	
1.4	64QAM	6	0	22.19	22.21	22.11	
Channel				1860.7	1890.0	1919.3	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880.0	1909.3	

3	16QAM	1	14	22.42	22.37	22.46	23
3	16QAM	8	0	22.39	22.24	22.39	
3	16QAM	8	4	22.50	22.35	22.50	
3	16QAM	8	7	22.41	22.42	22.32	
3	16QAM	15	0	22.24	22.34	22.38	
3	64QAM	1	0	22.32	22.24	22.37	
3	64QAM	1	8	22.32	22.37	22.43	
3	64QAM	1	14	22.41	22.19	22.35	
3	64QAM	8	0	22.35	22.18	22.34	
3	64QAM	8	4	22.38	22.25	22.36	
3	64QAM	8	7	22.31	22.29	22.33	
3	64QAM	15	0	22.38	22.19	22.25	
Channel				1985.7	2017.5	2039.3	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.13	23.15	22.95	24
1.4	QPSK	1	3	22.99	22.99	22.97	
1.4	QPSK	1	5	23.04	22.93	22.96	
1.4	QPSK	3	0	22.35	22.38	22.33	
1.4	QPSK	3	1	22.32	22.37	22.45	
1.4	QPSK	3	3	22.37	22.18	22.30	
1.4	QPSK	6	0	22.36	22.31	22.39	
1.4	16QAM	1	0	22.28	22.36	22.25	
1.4	16QAM	1	3	22.53	22.39	22.42	
1.4	16QAM	1	5	22.61	22.34	22.68	
1.4	16QAM	3	0	22.26	22.24	22.28	
1.4	16QAM	3	1	22.39	22.40	22.32	
1.4	16QAM	3	3	22.25	22.36	22.29	
1.4	16QAM	6	0	22.38	22.37	22.44	
1.4	64QAM	1	0	22.39	22.27	22.44	
1.4	64QAM	1	3	22.50	22.36	22.51	
1.4	64QAM	1	5	22.26	22.21	22.31	
1.4	64QAM	3	0	22.37	22.21	22.32	
1.4	64QAM	3	1	22.34	22.31	22.26	
1.4	64QAM	3	3	22.25	22.31	22.19	
1.4	64QAM	6	0	22.33	22.42	22.33	
Channel				1985.7	2017.5	2039.3	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	

Band 5 (Cellular Band) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	25
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.93	24.09	23.77	24
10	QPSK	1	25	24.01	24.01	24.07	
10	QPSK	1	49	23.94	23.96	23.86	24
10	QPSK	25	0	23.02	23.31	23.09	
10	QPSK	25	12	23.04	22.99	23.05	24
10	QPSK	25	25	23.15	23.04	23.01	
10	QPSK	50	0	23.06	23.02	22.95	24
10	16QAM	1	0	23.38	23.44	23.33	
10	16QAM	1	25	23.41	23.41	23.35	24
10	16QAM	1	49	23.36	23.18	23.31	
10	16QAM	25	0	23.19	23.06	23.28	24
10	16QAM	25	12	23.19	23.12	23.21	
10	16QAM	25	25	23.23	23.09	22.99	24
10	16QAM	50	0	23.13	23.12	23.01	
10	64QAM	1	0	23.11	23.28	23.35	24
10	64QAM	1	25	23.32	23.18	23.22	
10	64QAM	1	49	23.31	22.98	23.25	24
10	64QAM	25	0	23.08	23.11	23.24	
10	64QAM	25	12	23.24	23.23	23.12	24
10	64QAM	25	25	23.29	22.97	22.98	
10	64QAM	50	0	23.16	23.05	23.01	
Channel				20425	20525	20625	25
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.93	24.05	23.76	24
5	QPSK	1	12	23.92	23.92	23.89	
5	QPSK	1	24	23.85	23.83	23.80	24
5	QPSK	12	0	23.29	23.30	23.17	
5	QPSK	12	7	23.20	23.12	23.07	24
5	QPSK	12	13	23.20	23.13	23.02	
5	QPSK	25	0	23.15	23.14	23.04	24
5	16QAM	1	0	23.13	23.26	22.96	
5	16QAM	1	12	23.38	23.24	23.25	24
5	16QAM	1	24	23.10	23.20	23.41	
5	16QAM	12	0	23.13	23.04	23.05	24
5	16QAM	12	7	23.25	23.15	23.11	
5	16QAM	12	13	23.18	23.08	22.87	24
5	16QAM	25	0	23.17	22.99	22.89	
5	64QAM	1	0	23.31	23.15	23.11	24
5	64QAM	1	12	23.37	23.30	23.32	
5	64QAM	1	24	23.30	22.92	23.11	24
5	64QAM	12	0	23.09	22.93	22.99	
5	64QAM	12	7	23.16	23.17	23.01	24
5	64QAM	12	13	23.09	23.06	22.98	
5	64QAM	25	0	23.07	23.11	23.05	
Channel				20415	20525	20635	25
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.85	23.95	23.77	24
3	QPSK	1	8	23.92	23.83	23.79	
3	QPSK	1	14	23.88	23.81	23.89	24
3	QPSK	8	0	23.19	23.30	23.19	
3	QPSK	8	4	23.19	23.06	23.18	24
3	QPSK	8	7	23.22	23.12	23.00	
3	QPSK	15	0	23.13	23.03	23.13	24
3	16QAM	1	0	23.06	23.17	23.07	
3	16QAM	1	8	23.08	23.07	23.08	24
3	16QAM	1	14	23.09	22.92	22.92	
3	16QAM	8	0	23.12	22.90	23.14	24
3	16QAM	8	4	23.19	23.11	23.04	
3	16QAM	8	7	23.18	22.98	23.01	24
3	16QAM	15	0	23.06	22.98	23.19	
3	64QAM	1	0	23.32	23.15	23.17	24
3	64QAM	1	8	23.24	23.39	23.16	
3	64QAM	1	14	23.27	22.93	23.06	24
3	64QAM	8	0	23.23	23.26	23.08	
3	64QAM	8	4	23.15	23.21	23.24	24
3	64QAM	8	7	23.27	23.08	23.09	
3	64QAM	15	0	23.27	23.18	23.25	
Channel				20407	20525	20643	25
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.95	23.96	23.93	24
1.4	QPSK	1	3	23.95	23.86	23.83	
1.4	QPSK	1	5	23.85	23.79	23.91	24
1.4	QPSK	3	0	23.09	23.20	23.13	
1.4	QPSK	3	1	22.96	23.04	22.98	24
1.4	QPSK	3	3	23.09	23.05	23.04	
1.4	QPSK	6	0	23.39	23.24	23.31	24
1.4	16QAM	1	0	23.27	23.08	23.30	
1.4	16QAM	1	3	23.44	23.30	23.37	24
1.4	16QAM	1	5	23.23	23.39	23.31	
1.4	16QAM	3	0	23.36	23.27	23.27	24
1.4	16QAM	3	1	23.26	23.41	23.27	
1.4	16QAM	3	3	23.30	23.16	23.15	24
1.4	16QAM	6	0	23.22	23.19	23.24	
1.4	64QAM	1	0	23.26	23.33	23.17	24
1.4	64QAM	1	3	23.17	23.25	23.35	
1.4	64QAM	1	5	23.27	23.28	23.17	24
1.4	64QAM	3	0	23.21	23.33	23.22	
1.4	64QAM	3	1	23.28	23.25	23.40	24
1.4	64QAM	3	3	23.15	23.14	23.17	
1.4	64QAM	6	0	23.17	23.17	23.15	

Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	24
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.86	23.00	22.98	23
20	QPSK	1	49	22.95	22.94	22.96	
20	QPSK	1	99	22.83	22.89	22.95	23
20	QPSK	50	0	22.16	22.30	22.11	
20	QPSK	50	24	22.15	22.20	22.20	23
20	QPSK	50	50	22.24	22.23	22.20	
20	QPSK	100	0	22.21	22.18	22.16	23
20	16QAM	1	0	22.17	22.28	22.27	
20	16QAM	1	49	22.29	22.17	22.11	23
20	16QAM	1	99	22.35	22.14	22.24	
20	16QAM	50	0	21.97	22.08	22.10	23
20	16QAM	50	24	22.15	22.06	22.12	
20	16QAM	50	50	22.21	22.17	22.14	23
20	16QAM	100	0	22.12	22.04	22.07	
20	64QAM	1	0	22.22	22.24	22.25	23
20	64QAM	1	49	22.16	22.19	22.22	
20	64QAM	1	99	22.26	22.22	22.19	23
20	64QAM	50	0	21.93	22.17	22.07	
20	64QAM	50	24	22.07	22.08	22.11	23
20	64QAM	50	50	22.14	22.11	22.11	
20	64QAM	100	0	22.05	22.11	22.07	
Channel				20825	21100	21375	24
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.97	22.98	22.90	24
15	QPSK	1	37	22.94	22.90	22.95	
15	QPSK	1	74	22.94	22.88	22.97	23
15	QPSK	36	0	22.09	22.34	22.14	
15	QPSK	36	20	22.10	22.21	22.14	23
15	QPSK	36	39	22.20	22.16	22.12	
15	QPSK	75	0	22.19	22.12	22.09	23
15	16QAM	1	0	22.35	21.90	22.12	
15	16QAM	1	37	22.01	22.34	22.26	23
15	16QAM	1	74	22.33	22.22	22.31	
15	16QAM	36	0	22.08	22.04	22.07	23
15	16QAM	36	20	22.09	22.07	22.19	
15	16QAM	36	39	22.11	22.03	22.15	23
15	16QAM	75	0	22.21	22.15	22.06	
15	64QAM	1	0	22.25	22.30	22.23	23
15	64QAM	1	37	22.32	22.35	22.18	
15	64QAM	1	74	22.16	22.18	22.16	23
15	64QAM	36	0	22.03	22.01	22.12	
15	64QAM	36	20	22.06	22.21	22.08	23
15	64QAM	36	39	22.17	22.08	22.06	
15	64QAM	75	0	22.15	22.14	22.13	
Channel				20800	21100	21400	24
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.95	22.99	22.82	24
10	QPSK	1	25	22.92	22.84	22.87	
10	QPSK	1	49	22.95	22.85	22.91	23
10	QPSK	25	0	22.11	22.27	22.21	
10	QPSK	25	12	22.13	22.17	22.07	23
10	QPSK	25	25	22.16	22.13	22.26	
10	QPSK	50	0	22.25	22.07	22.17	23
10	16QAM	1	0	22.08	22.34	22.14	
10	16QAM	1	25	22.11	22.22	22.20	23
10	16QAM	1	49	22.18	21.89	22.17	
10	16QAM	25	0	22.03	22.08	22.26	23
10	16QAM	25	12	22.10	22.15	22.19	
10	16QAM	25	25	22.13	22.13	22.24	23
10	16QAM	50	0	22.21	21.99	22.16	
10	64QAM	1	0	22.10	22.07	22.23	23
10	64QAM	1	25	22.21	22.22	22.08	
10	64QAM	1	49	22.17	22.01	22.13	23
10	64QAM	25	0	22.07	22.02	22.11	
10	64QAM	25	12	21.97	22.10	22.17	

Band 13(700MHz Band) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			25
Frequency (MHz)				782			
10	QPSK	1	0	24.09			
10	QPSK	1	25	23.78			
10	QPSK	1	49	23.91			
10	QPSK	25	0	23.31			
10	QPSK	25	12	23.16			
10	QPSK	25	25	23.22			
10	QPSK	50	0	23.16			
10	16QAM	1	0	23.28			
10	16QAM	1	25	23.21			
10	16QAM	1	49	23.30			
10	16QAM	25	0	23.10			
10	16QAM	25	12	23.06			
10	16QAM	25	25	23.15			
10	16QAM	50	0	23.12			
10	64QAM	1	0	23.11			
10	64QAM	1	25	23.18			
10	64QAM	1	49	23.09			
10	64QAM	25	0	22.99			
10	64QAM	25	12	23.21			
10	64QAM	25	25	23.20			
10	64QAM	50	0	23.14			
Channel				23205	23230	23255	25
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.94	24.07	23.80	
5	QPSK	1	12	24.00	23.97	23.93	
5	QPSK	1	24	23.94	23.76	23.83	
5	QPSK	12	0	23.09	23.20	23.19	
5	QPSK	12	7	23.11	23.05	23.02	
5	QPSK	12	13	23.09	23.07	23.05	
5	QPSK	25	0	23.09	22.97	23.06	
5	16QAM	1	0	23.07	23.31	23.29	
5	16QAM	1	12	23.24	23.30	23.20	
5	16QAM	1	24	23.22	23.11	22.94	
5	16QAM	12	0	23.12	23.15	23.06	
5	16QAM	12	7	23.02	23.19	23.10	
5	16QAM	12	13	23.09	23.05	23.05	
5	16QAM	25	0	23.08	23.04	23.06	
5	64QAM	1	0	23.18	23.00	23.04	
5	64QAM	1	12	23.21	23.21	23.43	
5	64QAM	1	24	22.99	23.12	22.96	
5	64QAM	12	0	22.98	22.98	23.02	
5	64QAM	12	7	23.02	23.02	23.02	
5	64QAM	12	13	23.14	22.96	23.04	
5	64QAM	25	0	23.10	22.99	23.12	

Band 26 for FCC (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	25
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.89	24.09	23.93	
15	QPSK	1	37	23.97	23.91	23.99	
15	QPSK	1	74	23.86	23.83	23.88	
15	QPSK	36	0	23.03	23.26	23.01	
15	QPSK	36	20	23.15	23.11	23.03	
15	QPSK	36	39	23.14	23.13	23.10	
15	QPSK	75	0	23.00	22.95	22.95	
15	16QAM	1	0	23.31	23.02	23.27	
15	16QAM	1	37	23.08	23.17	23.24	
15	16QAM	1	74	23.44	23.05	23.13	
15	16QAM	36	0	23.12	23.04	23.11	
15	16QAM	36	20	23.04	23.05	23.18	
15	16QAM	36	39	23.08	22.96	23.08	
15	16QAM	75	0	23.00	23.00	23.09	
15	64QAM	1	0	23.06	23.43	23.03	
15	64QAM	1	37	23.15	23.14	23.27	
15	64QAM	1	74	22.96	23.33	23.07	
15	64QAM	36	0	23.14	23.23	23.10	
15	64QAM	36	20	23.17	23.14	23.22	
15	64QAM	36	39	23.11	23.11	23.12	
15	64QAM	75	0	23.11	23.12	23.19	
Channel				26740	26865	26990	25
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.87	24.02	24.00	
10	QPSK	1	25	23.88	23.99	23.93	
10	QPSK	1	49	23.91	23.83	23.84	
10	QPSK	25	0	22.98	23.21	23.08	
10	QPSK	25	12	22.97	23.06	23.07	
10	QPSK	25	25	23.05	23.04	22.93	
10	QPSK	50	0	23.10	23.09	22.98	
10	16QAM	1	0	23.02	23.11	23.34	
10	16QAM	1	25	23.16	23.30	23.43	
10	16QAM	1	49	23.17	23.22	23.14	
10	16QAM	25	0	23.14	23.00	23.04	
10	16QAM	25	12	23.15	23.04	23.11	
10	16QAM	25	25	23.03	22.98	23.08	
10	16QAM	50	0	23.13	23.04	23.09	
10	64QAM	1	0	23.07	23.16	23.11	
10	64QAM	1	25	23.31	23.30	23.26	
10	64QAM	1	49	23.05	23.04	22.96	
10	64QAM	25	0	22.96	23.07	23.14	
10	64QAM	25	12	22.98	23.14	23.05	
10	64QAM	25	25	23.02	23.28	23.02	
10	64QAM	50	0	23.14	23.11	22.96	
Channel				26715	26865	27015	25
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.87	23.96	23.94	
5	QPSK	1	12	23.93	23.89	23.91	
5	QPSK	1	24	23.94	23.92	23.86	
5	QPSK	12	0	23.12	23.19	23.16	
5	QPSK	12	7	23.21	23.07	23.12	
5	QPSK	12	13	23.16	23.13	22.98	
5	QPSK	25	0	23.11	23.14	23.08	
5	16QAM	1	0	23.12	23.02	23.00	
5	16QAM	1	12	23.32	23.23	23.25	
5	16QAM	1	24	23.32	22.89	23.19	
5	16QAM	12	0	22.95	23.15	23.20	
5	16QAM	12	7	23.07	23.25	23.03	
5	16QAM	12	13	23.02	23.18	23.12	
5	16QAM	25	0	23.07	23.07	23.11	
5	64QAM	1	0	23.02	23.09	23.09	
5	64QAM	1	12	23.28	23.01	23.27	
5	64QAM	1	24	23.11	23.13	23.13	
5	64QAM	12	0	23.04	23.09	22.99	
5	64QAM	12	7	23.21	23.12	23.01	
5	64QAM	12	13	23.00	22.97	22.99	
5	64QAM	25	0	23.01	23.15	23.17	
Channel				26705	26865	27025	25
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.91	23.98	23.88	
3	QPSK	1	8	23.86	23.82	23.95	
3	QPSK	1	14	23.83	23.94	23.94	
3	QPSK	8	0	23.11	23.23	23.24	
3	QPSK	8	4	23.20	23.12	23.16	
3	QPSK	8	7	23.10	23.10	23.00	
3	QPSK	15	0	23.08	23.16	23.09	
3	16QAM	1	0	23.39	23.07	23.20	
3	16QAM	1	8	23.25	23.11	23.09	
3	16QAM	1	14	23.29	23.05	22.95	
3	16QAM	8	0	22.96	23.07	23.04	
3	16QAM	8	4	23.02	23.10	23.03	
3	16QAM	8	7	23.04	23.13	23.04	
3	16QAM	15	0	23.04	22.98	22.97	
3	64QAM	1	0	22.96	23.09	22.98	
3	64QAM	1	8	23.31	23.05	22.99	
3	64QAM	1	14	23.31	23.02	23.14	
3	64QAM	8	0	23.00	23.13	23.05	
3	64QAM	8	4	23.07	23.02	23.17	
3	64QAM	8	7	23.11	23.09	23.14	
3	64QAM	15	0	23.12	22.96	23.03	
Channel				26697	26865	27033	25
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.97	23.99	23.84	
1.4	QPSK	1	3	23.97	23.96	23.95	
1.4	QPSK	1	5	23.84	23.90	23.95	
1.4	QPSK	3	0	23.18	23.25	23.21	
1.4	QPSK	3	1	23.24	23.19	23.24	
1.4	QPSK	3	3	23.20	23.06	23.20	
1.4	QPSK	6	0	23.11	23.07	23.08	
1.4	16QAM	1	0	23.23	23.04	23.13	
1.4	16QAM	1	3	23.23	23.19	23.19	

1.4	16QAM	1	5	23.13	23.09	22.96	24
1.4	16QAM	3	0	23.09	23.14	23.09	
1.4	16QAM	3	1	22.97	23.02	23.15	
1.4	16QAM	3	3	23.10	23.02	22.96	
1.4	16QAM	6	0	23.12	23.10	23.20	24
1.4	64QAM	1	0	23.25	23.17	23.01	24
1.4	64QAM	1	3	23.01	23.19	23.19	
1.4	64QAM	1	5	22.96	23.22	23.06	
1.4	64QAM	3	0	23.07	23.13	23.02	
1.4	64QAM	3	1	23.04	23.10	23.13	
1.4	64QAM	3	3	23.04	23.01	22.98	
1.4	64QAM	6	0	23.02	22.99	23.11	



**2.4GHz WLAN ANT 6**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	17.61	18.50	18.00	100.00
	CH 6	2437	17.13	18.00	18.00	
	CH 11	2462	17.81	18.50	18.00	
802.11g 6Mbps	CH 1	2412	8.01	8.50	8.00	96.86
	CH 6	2437	16.62	17.50	17.00	
	CH 11	2462	8.02	8.50	8.00	
802.11n-HT20 MCS0	CH 1	2412	7.80	8.50	8.00	96.65
	CH 6	2437	16.48	17.00	17.00	
	CH 11	2462	7.81	8.50	8.00	

**5GHz WLAN ANT 6**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	15.61	16.50	16.00	96.85
	CH 44	5220	15.62	16.50	16.00	
	CH 48	5240	15.77	16.50	16.00	
802.11n-HT20 MCS0	CH 36	5180	14.57	15.00	15.00	96.65
	CH 44	5220	14.67	15.50	15.00	
	CH 48	5240	14.53	15.00	15.00	
802.11n-HT40 MCS0	CH 38	5190	13.89	14.50	15.00	93.48
	CH 46	5230	13.85	14.50	15.00	
802.11ac-VHT20 MCS0	CH 36	5180	11.52	12.00	12.00	96.68
	CH 44	5220	11.42	12.00	12.00	
	CH 48	5240	11.46	12.00	12.00	
802.11ac-VHT40 MCS0	CH 38	5190	11.28	12.00	12.00	93.53
	CH 46	5230	11.34	12.00	12.00	
802.11ac-VHT80 MCS0	CH 42	5210	10.94	11.50	12.00	87.80

**5GHz WLAN ANT 6**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 52	5260	15.15	16.00	16.00	96.85
	CH 60	5300	15.34	16.00	16.00	
	CH 64	5320	15.44	16.00	16.00	
802.11n-HT20 MCS0	CH 52	5260	14.56	15.00	15.00	96.65
	CH 60	5300	14.73	15.50	15.00	
	CH 64	5320	14.73	15.50	15.00	
802.11n-HT40 MCS0	CH 54	5270	13.76	14.50	15.00	93.48
	CH 62	5310	13.93	14.50	15.00	
802.11ac-VHT20 MCS0	CH 52	5260	11.48	12.00	12.00	96.68
	CH 60	5300	11.60	12.00	12.00	
	CH 64	5320	11.55	12.00	12.00	
802.11ac-VHT40 MCS0	CH 54	5270	11.36	12.00	12.00	93.53
	CH 62	5310	11.38	12.00	12.00	

	802.11ac-VHT80 MCS0	CH 58	5290	11.02	11.50	12.00	87.80
--	---------------------	-------	------	-------	-------	-------	-------

### 5GHzWLAN ANT 6

5.5GHz WLAN ANT 6	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	15.18	16.00	16.00	96.85
		CH 120	5600	15.24	16.00	16.00	
		CH 144	5720	15.14	16.00	16.00	
	802.11n-HT20 MCS0	CH 100	5500	14.22	15.00	15.00	96.65
		CH 120	5600	14.46	15.00	15.00	
		CH 144	5720	14.15	15.00	15.00	
	802.11n-HT40 MCS0	CH 102	5510	13.53	14.00	15.00	93.48
		CH 126	5630	13.73	14.50	15.00	
		CH 142	5710	13.36	14.00	15.00	
802.11ac-VHT20 MCS0	CH 100	5500	11.26	12.00	12.00	93.48	
	CH 120	5600	11.53	12.00	12.00		
	CH 144	5720	10.85	11.50	12.00		
802.11ac-VHT40 MCS0	CH 102	5510	10.92	11.50	12.00	93.53	
	CH 126	5630	11.07	11.50	12.00		
	CH 142	5710	10.97	11.50	12.00		
802.11ac-VHT80 MCS0	CH 106	5530	10.49	11.00	12.00	87.80	
	CH 122	5610	10.82	11.50	12.00		
	CH 138	5690	10.41	11.00	12.00		

### 5GHz WLAN ANT 6

5.8GHz WLAN ANT 6	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	15.44	16.00	16.00	96.85
		CH 157	5785	15.29	16.00	16.00	
		CH 165	5825	15.07	15.50	16.00	
	802.11n-HT20 MCS0	CH 149	5745	14.13	15.00	15.00	96.65
		CH 157	5785	14.09	14.50	15.00	
		CH 165	5825	13.43	14.00	15.00	
	802.11n-HT40 MCS0	CH 151	5755	13.25	14.00	15.00	93.48
		CH 159	5795	13.35	14.00	15.00	
	802.11ac-VHT20 MCS0	CH 149	5745	10.86	11.50	12.00	96.68
CH 157		5785	10.76	11.50	12.00		
CH 165		5825	10.73	11.50	12.00		
802.11ac-VHT40 MCS0	CH 151	5755	10.67	11.00	12.00	93.53	
	CH 159	5795	10.62	11.00	12.00		
802.11ac-VHT80 MCS0	CH 155	5775	10.38	11.00	12.00	87.80	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.42	4.32	4.28
	CH 39	2441	7.34	3.74	3.90
	CH 78	2480	5.33	2.44	2.29

Tune-up Limit	8	5	5
Duty Cycle %	76.8	76.8	76.8

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	4.96	5.42	N/A
	CH 19	2440	5.99	6.16	N/A
	CH 39	2480	5.27	5.49	N/A
Tune-up Limit			6.50	7.00	N/A
Duty Cycle %			85.2	56.91	N/A

## Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.82	23.03	22.75	24
20	QPSK	1	49	22.89	22.88	22.90	
20	QPSK	1	99	22.80	22.82	22.72	
20	QPSK	50	0	22.28	22.34	22.24	
20	QPSK	50	24	22.25	22.31	22.25	23
20	QPSK	50	50	22.25	22.29	22.23	
20	QPSK	100	0	22.21	22.21	22.27	
20	16QAM	1	0	22.38	22.26	22.45	23
20	16QAM	1	49	22.67	22.39	22.41	
20	16QAM	1	99	22.41	22.36	22.28	
20	16QAM	50	0	22.31	22.33	22.20	23
20	16QAM	50	24	22.37	22.32	22.36	
20	16QAM	50	50	22.34	22.29	22.30	
20	16QAM	100	0	22.30	22.35	22.27	
20	64QAM	1	0	22.25	22.20	22.22	23
20	64QAM	1	49	22.22	22.59	22.44	
20	64QAM	1	99	22.32	22.33	22.24	
20	64QAM	50	0	22.27	22.27	22.23	
20	64QAM	50	24	22.45	22.41	22.33	23
20	64QAM	50	50	22.35	22.26	22.27	
20	64QAM	100	0	22.29	22.32	22.27	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.85	23.02	22.98	24
15	QPSK	1	37	22.97	22.94	22.88	
15	QPSK	1	74	22.88	22.96	22.96	
15	QPSK	36	0	22.28	22.30	22.28	
15	QPSK	36	20	22.25	22.20	22.21	23
15	QPSK	36	39	22.30	22.34	22.37	
15	QPSK	75	0	22.22	22.29	22.23	
15	16QAM	1	0	22.24	22.22	22.27	23
15	16QAM	1	37	22.42	22.20	22.32	
15	16QAM	1	74	22.21	22.31	22.34	
15	16QAM	36	0	22.32	22.24	22.27	
15	16QAM	36	20	22.24	22.26	22.29	23
15	16QAM	36	39	22.36	22.32	22.29	
15	16QAM	75	0	22.37	22.25	22.24	
15	64QAM	1	0	22.25	22.51	22.48	23
15	64QAM	1	37	22.31	22.39	22.41	
15	64QAM	1	74	22.29	22.57	22.21	
15	64QAM	36	0	22.25	22.38	22.37	
15	64QAM	36	20	22.24	22.36	22.28	23
15	64QAM	36	39	22.25	22.29	22.29	
15	64QAM	75	0	22.29	22.26	22.34	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.88	22.95	22.87	24
10	QPSK	1	25	22.94	22.88	22.93	
10	QPSK	1	49	22.94	22.86	22.84	
10	QPSK	25	0	22.22	22.29	22.23	
10	QPSK	25	12	22.27	22.26	22.23	24
10	QPSK	25	25	22.27	22.26	22.20	
10	QPSK	50	0	22.26	22.25	22.26	
10	16QAM	1	0	22.28	22.33	22.35	23
10	16QAM	1	25	22.55	22.25	22.36	
10	16QAM	1	49	22.29	22.47	22.40	
10	16QAM	25	0	22.36	22.39	22.38	
10	16QAM	25	12	22.49	22.47	22.35	23
10	16QAM	25	25	22.38	22.40	22.28	
10	16QAM	50	0	22.41	22.39	22.34	
10	64QAM	1	0	22.59	22.26	22.47	23
10	64QAM	1	25	22.30	22.37	22.49	
10	64QAM	1	49	22.24	22.22	22.37	
10	64QAM	25	0	22.36	22.32	22.27	
10	64QAM	25	12	22.29	22.46	22.39	23
10	64QAM	25	25	22.35	22.42	22.39	
10	64QAM	50	0	22.24	22.24	22.28	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.83	22.93	22.91	24
5	QPSK	1	12	22.91	22.87	22.86	
5	QPSK	1	24	22.90	22.89	22.76	
5	QPSK	12	0	22.30	22.31	22.28	
5	QPSK	12	7	22.28	22.23	22.22	23
5	QPSK	12	13	22.23	22.26	22.20	
5	QPSK	25	0	22.21	22.25	22.29	
5	16QAM	1	0	22.22	22.47	22.36	23
5	16QAM	1	12	22.26	22.58	22.20	
5	16QAM	1	24	22.20	22.29	22.39	
5	16QAM	12	0	22.28	22.32	22.38	
5	16QAM	12	7	22.50	22.34	22.27	23
5	16QAM	12	13	22.30	22.36	22.31	
5	16QAM	25	0	22.41	22.41	22.30	
5	64QAM	1	0	22.24	22.37	22.29	23
5	64QAM	1	12	22.58	22.46	22.64	
5	64QAM	1	24	22.42	22.28	22.34	
5	64QAM	12	0	22.26	22.32	22.43	
5	64QAM	12	7	22.39	22.31	22.28	23
5	64QAM	12	13	22.27	22.26	22.44	
5	64QAM	25	0	22.29	22.35	22.40	
Channel				131997	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.85	22.96	22.95	24
3	QPSK	1	8	22.92	22.81	22.87	
3	QPSK	1	14	22.82	22.77	22.87	
3	QPSK	8	0	22.27	22.30	22.25	
3	QPSK	8	4	22.31	22.29	22.29	23
3	QPSK	8	7	22.24	22.29	22.25	
3	QPSK	15	0	22.28	22.27	22.23	
3	16QAM	1	0	22.55	22.66	22.25	23
3	16QAM	1	8	22.64	22.61	22.34	

3	16QAM	1	14	22.31	22.30	22.32	23
3	16QAM	8	0	22.32	22.37	22.21	
3	16QAM	8	4	22.32	22.29	22.28	
3	16QAM	8	7	22.25	22.37	22.31	
3	16QAM	15	0	22.43	22.25	22.27	23
3	64QAM	1	0	22.24	22.25	22.30	
3	64QAM	1	8	22.27	22.52	22.54	
3	64QAM	1	14	22.25	22.25	22.49	23
3	64QAM	8	0	22.28	22.35	22.30	
3	64QAM	8	4	22.38	22.35	22.24	
3	64QAM	8	7	22.33	22.26	22.27	
3	64QAM	15	0	22.28	22.28	22.39	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.86	22.95	22.90	24
1.4	QPSK	1	3	22.89	22.94	22.94	
1.4	QPSK	1	5	22.89	22.77	22.88	
1.4	QPSK	3	0	22.21	22.29	22.20	
1.4	QPSK	3	1	22.23	22.25	22.28	
1.4	QPSK	3	3	22.20	22.22	22.25	
1.4	QPSK	6	0	22.22	22.24	22.21	23
1.4	16QAM	1	0	22.39	22.20	22.39	23
1.4	16QAM	1	3	22.44	22.30	22.46	
1.4	16QAM	1	5	22.33	22.27	22.38	
1.4	16QAM	3	0	22.43	22.46	22.26	
1.4	16QAM	3	1	22.51	22.37	22.32	
1.4	16QAM	3	3	22.37	22.40	22.31	
1.4	16QAM	6	0	22.44	22.41	22.48	23
1.4	64QAM	1	0	22.30	22.32	22.23	23
1.4	64QAM	1	3	22.60	22.22	22.27	
1.4	64QAM	1	5	22.50	22.20	22.34	
1.4	64QAM	3	0	22.54	22.52	22.59	
1.4	64QAM	3	1	22.64	22.60	22.62	
1.4	64QAM	3	3	22.52	22.54	22.66	
1.4	64QAM	6	0	22.56	22.61	22.39	23

### Reduced Power Level 1

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	31.25	31.28	31.15	32.00	22.25	22.28	22.15	23.00	0.26
GPRS 1 Tx slot	31.19	31.18	31.02	32.00	22.19	22.18	22.02	23.00	
GPRS 2 Tx slots	29.28	29.33	29.22	30.00	23.28	23.33	23.22	24.00	0.11
GPRS 3 Tx slots	26.92	27.12	27.04	27.50	22.66	22.86	22.78	23.24	0.20
GPRS 4 Tx slots	26.21	26.20	26.13	27.00	23.21	23.20	23.13	24.00	0.08
EDGE 1 Tx slot	25.65	25.54	25.46	26.00	16.65	16.54	16.46	17.00	0.19
EDGE 2 Tx slots	23.21	23.10	22.99	24.00	17.21	17.10	16.99	18.00	0.22
EDGE 3 Tx slots	21.18	21.09	21.13	22.00	16.92	16.83	16.87	17.74	0.09
EDGE 4 Tx slots	19.54	19.62	19.73	20.00	16.54	16.62	16.73	17.00	0.19
Mode		Max.	31.28		Max.		23.33		
Attenuator	Cable Loss : 0.6								

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	28.40	28.36	28.38	29.00	19.40	19.36	19.38	20.00	0.09
GPRS 1 Tx slot	28.38	28.45	28.43	29.00	19.38	19.45	19.43	20.00	
GPRS 2 Tx slots	25.73	25.81	25.78	26.50	19.73	19.81	19.78	20.50	0.08
GPRS 3 Tx slots	23.68	23.99	23.79	24.50	19.42	19.73	19.53	20.24	0.31
GPRS 4 Tx slots	22.68	22.76	22.68	23.00	19.68	19.76	19.68	20.00	0.08
EDGE 1 Tx slot	23.99	24.01	23.94	25.00	14.99	15.01	14.94	16.00	0.07
EDGE 2 Tx slots	21.89	21.76	21.58	23.50	15.89	15.76	15.58	17.50	0.31
EDGE 3 Tx slots	20.58	20.71	20.64	21.50	16.32	16.45	16.38	17.24	0.13
EDGE 4 Tx slots	18.79	18.58	18.56	19.50	15.79	15.58	15.56	16.50	0.23
Mode		Max.	28.45		Max.		19.81		
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99 RMC 12.2Kbps	20.17	20.25	20.10	21.00	19.98	20.11	20.07	21.00	22.84	22.93	22.92	24.00
3GPP Rel 6 HSDPA Subtest-1	18.98	18.92	18.87	19.50	18.90	18.93	18.88	19.50	22.20	22.24	22.26	23.00
3GPP Rel 6 HSDPA Subtest-2	19.00	18.95	18.81	19.50	18.94	18.91	18.89	19.50	22.21	22.17	22.25	23.00
3GPP Rel 6 HSDPA Subtest-3	18.53	18.42	18.28	19.00	18.41	18.38	18.41	19.00	21.72	21.71	21.74	22.50
3GPP Rel 6 HSDPA Subtest-4	18.47	18.43	18.29	19.00	18.41	18.36	18.37	19.00	21.67	21.67	21.75	22.50
3GPP Rel 6 HSUPA Subtest-1	18.44	18.41	18.27	19.00	18.41	18.34	18.31	19.00	21.72	21.69	21.74	22.50
3GPP Rel 6 HSUPA Subtest-2	19.01	18.89	18.74	19.50	18.85	18.81	18.84	19.50	22.27	22.17	22.30	23.00
3GPP Rel 6 HSUPA Subtest-3	18.01	17.89	17.77	18.50	17.89	17.87	17.86	18.50	21.27	21.24	21.28	22.00
3GPP Rel 6 HSUPA Subtest-4	19.00	18.84	18.80	19.50	18.87	18.89	18.81	19.50	22.26	22.26	22.33	23.00
3GPP Rel 6 HSUPA Subtest-5	17.93	17.86	17.70	18.50	17.87	17.84	17.86	18.50	21.28	21.25	21.22	22.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	17.98	17.89	17.84	18.50	17.88	17.84	17.84	18.50	21.33	21.23	21.26	22.00
Attenuator	Cable Loss			0.8	Cable Loss			0.8	Cable Loss			0.6
Mode		Max.	20.25		Max.		20.11		Max.		22.93	

Band 2 (1900MHz Band) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				18600	18800	19000	
20	QPSK	1	0	19.11	19.26	19.23	
20	QPSK	1	49	19.16	19.21	19.15	
20	QPSK	1	99	18.97	18.97	19.05	
20	QPSK	50	0	18.23	18.30	18.22	19
20	QPSK	50	24	18.10	18.24	18.10	
20	QPSK	50	50	18.10	18.24	18.15	
20	QPSK	100	0	18.25	18.18	18.25	19
20	16QAM	1	0	18.37	18.42	18.16	
20	16QAM	1	49	18.36	18.38	18.12	
20	16QAM	1	99	18.10	18.20	18.46	19
20	16QAM	50	0	18.39	18.32	18.35	
20	16QAM	50	24	18.32	18.35	18.35	
20	16QAM	50	50	18.37	18.29	18.27	19
20	16QAM	100	0	18.27	18.34	18.34	
20	64QAM	1	0	18.40	18.17	18.31	
20	64QAM	1	49	18.32	18.35	18.17	19
20	64QAM	1	99	18.16	18.15	18.12	
20	64QAM	50	0	18.26	18.13	18.15	
20	64QAM	50	24	18.24	18.19	18.12	19
20	64QAM	50	50	18.25	18.11	18.33	
20	64QAM	100	0	18.27	18.24	18.10	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.23	19.24	19.21	
15	QPSK	1	37	19.07	19.14	18.96	
15	QPSK	1	74	19.15	19.01	18.88	
15	QPSK	36	0	18.26	18.29	18.15	19
15	QPSK	36	20	18.28	18.18	18.11	
15	QPSK	36	39	18.25	18.14	18.10	
15	QPSK	75	0	18.26	18.22	18.12	19
15	16QAM	1	0	18.57	18.14	18.38	
15	16QAM	1	37	18.31	18.36	18.12	
15	16QAM	1	74	18.33	18.20	18.25	19
15	16QAM	36	0	18.29	18.17	18.13	
15	16QAM	36	20	18.30	18.15	18.12	
15	16QAM	36	39	18.29	18.25	18.23	19
15	16QAM	75	0	18.30	18.11	18.13	
15	64QAM	1	0	18.25	18.30	18.14	
15	64QAM	1	37	18.18	18.12	18.44	19
15	64QAM	1	74	18.40	18.15	18.13	
15	64QAM	36	0	18.27	18.13	18.11	
15	64QAM	36	20	18.25	18.22	18.17	19
15	64QAM	36	39	18.31	18.17	18.12	
15	64QAM	75	0	18.18	18.15	18.14	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.92	19.20	19.19	
10	QPSK	1	25	19.12	19.04	19.11	
10	QPSK	1	49	19.12	19.11	19.09	
10	QPSK	25	0	18.14	18.21	18.13	19
10	QPSK	25	12	18.18	18.15	18.19	
10	QPSK	25	25	18.18	18.10	18.12	
10	QPSK	50	0	18.14	18.23	18.10	19
10	16QAM	1	0	18.11	18.28	18.27	
10	16QAM	1	25	18.14	18.23	18.13	
10	16QAM	1	49	18.24	18.16	18.25	19
10	16QAM	25	0	18.29	18.24	18.19	
10	16QAM	25	12	18.36	18.30	18.13	
10	16QAM	25	25	18.14	18.15	18.16	19
10	16QAM	50	0	18.33	18.10	18.23	
10	64QAM	1	0	18.11	18.16	18.18	
10	64QAM	1	25	18.37	18.35	18.16	19
10	64QAM	1	49	18.36	18.18	18.27	
10	64QAM	25	0	18.35	18.23	18.23	
10	64QAM	25	12	18.34	18.32	18.19	19
10	64QAM	25	25	18.28	18.16	18.14	
10	64QAM	50	0	18.22	18.13	18.17	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.71	19.10	18.73	
5	QPSK	1	12	18.94	18.98	18.61	
5	QPSK	1	24	18.66	18.76	18.87	
5	QPSK	12	0	18.25	18.33	18.13	19
5	QPSK	12	7	18.33	18.31	18.18	
5	QPSK	12	13	18.18	18.17	18.25	
5	QPSK	25	0	18.18	18.20	18.34	19
5	16QAM	1	0	18.13	18.24	18.25	
5	16QAM	1	12	18.20	18.24	18.23	
5	16QAM	1	24	18.30	18.13	18.15	19
5	16QAM	12	0	18.28	18.20	18.23	
5	16QAM	12	7	18.38	18.29	18.27	
5	16QAM	12	13	18.27	18.27	18.27	19
5	16QAM	25	0	18.23	18.30	18.25	
5	64QAM	1	0	18.11	18.46	18.22	
5	64QAM	1	12	18.15	18.34	18.42	19
5	64QAM	1	24	18.18	18.12	18.20	
5	64QAM	12	0	18.25	18.20	18.29	
5	64QAM	12	7	18.36	18.28	18.27	19
5	64QAM	12	13	18.21	18.22	18.23	
5	64QAM	25	0	18.16	18.33	18.25	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.04	19.15	18.82	
3	QPSK	1	8	19.07	18.89	18.86	
3	QPSK	1	14	19.09	18.97	18.87	
3	QPSK	8	0	18.25	18.32	18.22	19
3	QPSK	8	4	18.14	18.28	18.23	
3	QPSK	8	7	18.12	18.25	18.31	
3	QPSK	15	0	18.21	18.29	18.17	19
3	16QAM	1	0	18.24	18.29	18.31	

Band 4 (AWS Band) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.68	19.78	19.67	
20	QPSK	1	49	19.68	19.62	19.62	
20	QPSK	1	99	19.60	19.64	19.68	
20	QPSK	50	0	18.69	18.98	18.91	19.5
20	QPSK	50	24	18.68	18.61	18.85	
20	QPSK	50	50	18.87	18.72	18.69	
20	QPSK	100	0	18.81	18.65	18.84	19.5
20	16QAM	1	0	18.65	18.61	18.72	
20	16QAM	1	49	18.94	18.84	18.91	
20	16QAM	1	99	18.79	18.60	18.63	19.5
20	16QAM	50	0	18.66	18.73	18.86	
20	16QAM	50	24	18.76	18.64	18.80	
20	16QAM	50	50	18.90	18.65	18.68	19.5
20	16QAM	100	0	18.76	18.69	18.92	
20	64QAM	1	0	18.67	18.88	18.64	
20	64QAM	1	49	18.79	18.78	18.76	19.5
20	64QAM	1	99	18.63	18.75	18.66	
20	64QAM	50	0	18.69	18.76	18.87	
20	64QAM	50	24	18.78	18.60	18.80	19.5
20	64QAM	50	50	18.75	18.61	18.72	
20	64QAM	100	0	18.79	18.62	18.88	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.72	19.84	19.60	
15	QPSK	1	37	19.72	19.72	19.80	
15	QPSK	1	74	19.42	19.36	19.51	
15	QPSK	36	0	18.66	18.68	18.75	19.5
15	QPSK	36	20	18.75	18.70	18.71	
15	QPSK	36	39	18.76	18.63	18.67	
15	QPSK	75	0	18.72	18.74	18.75	19.5
15	16QAM	1	0	18.74	18.74	18.76	
15	16QAM	1	37	18.63	19.03	18.71	
15	16QAM	1	74	18.89	18.64	18.74	19.5
15	16QAM	36	0	18.61	18.60	18.74	
15	16QAM	36	20	18.64	18.71	18.74	
15	16QAM	36	39	18.89	18.64	18.70	19.5
15	16QAM	75	0	18.83	18.67	18.78	
15	64QAM	1	0	18.61	18.68	18.62	
15	64QAM	1	37	18.76	18.66	18.65	19.5
15	64QAM	1	74	18.61	18.75	18.60	
15	64QAM	36	0	18.69	18.75	18.76	
15	64QAM	36	20	18.78	18.62	18.66	19.5
15	64QAM	36	39	18.69	18.61	18.73	
15	64QAM	75	0	18.74	18.64	18.74	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.55	19.94	19.71	
10	QPSK	1	25	19.78	19.77	19.79	
10	QPSK	1	49	19.55	19.59	19.54	
10	QPSK	25	0	18.88	18.73	18.82	19.5
10	QPSK	25	12	18.72	18.69	18.75	
10	QPSK	25	25	18.81	18.75	18.74	
10	QPSK	50	0	18.89	18.67	18.81	19.5
10	16QAM	1	0	18.94	18.76	18.72	
10	16QAM	1	25	19.06	18.75	18.89	
10	16QAM	1	49	18.74	18.61	18.82	19.5
10	16QAM	25	0	18.77	18.81	18.80	
10	16QAM	25	12	18.78	18.69	18.77	
10	16QAM						

3	16QAM	1	8	18.30	18.12	18.36	19	
3	16QAM	1	14	18.41	18.49	18.20		
3	16QAM	8	0	18.26	18.24	18.27		
3	16QAM	8	4	18.39	18.30	18.31	19	
3	16QAM	8	7	18.26	18.22	18.12		
3	16QAM	15	0	18.21	18.24	18.23		
3	64QAM	1	0	18.22	18.30	18.29	19	
3	64QAM	1	8	18.29	18.19	18.16		
3	64QAM	1	14	18.23	18.17	18.19		
3	64QAM	8	0	18.30	18.29	18.13	19	
3	64QAM	8	4	18.23	18.23	18.20		
3	64QAM	8	7	18.22	18.20	18.16		
3	64QAM	15	0	18.36	18.30	18.21	19	
Channel				18007	18900	19193		Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	18.88	19.23	18.94	20	
1.4	QPSK	1	3	19.16	19.11	19.18		
1.4	QPSK	1	5	19.01	19.00	19.19		
1.4	QPSK	3	0	18.12	18.20	18.15		
1.4	QPSK	3	1	18.35	18.28	18.19		
1.4	QPSK	3	3	18.18	18.21	18.15		
1.4	QPSK	6	0	18.33	18.26	18.11	19	
1.4	16QAM	1	0	18.51	18.41	18.26		
1.4	16QAM	1	3	18.10	18.12	18.38		
1.4	16QAM	1	5	18.15	18.28	18.12	19	
1.4	16QAM	3	0	18.17	18.10	18.23		
1.4	16QAM	3	1	18.21	18.15	18.19		
1.4	16QAM	3	3	18.10	18.24	18.14	19	
1.4	16QAM	6	0	18.31	18.19	18.14		
1.4	64QAM	1	0	18.12	18.22	18.15		
1.4	64QAM	1	3	18.24	18.25	18.20	19	
1.4	64QAM	1	5	18.44	18.19	18.15		
1.4	64QAM	3	0	18.18	18.11	18.10		
1.4	64QAM	3	1	18.28	18.12	18.14		
1.4	64QAM	3	3	18.24	18.14	18.19		
1.4	64QAM	6	0	18.18	18.20	18.10		

3	16QAM	1	8	18.92	19.01	18.92	19.5	
3	16QAM	1	14	18.83	18.81	18.87		
3	16QAM	8	0	18.80	18.68	18.80		
3	16QAM	8	4	18.91	18.79	18.91	19.5	
3	16QAM	8	7	18.82	18.86	18.73		
3	16QAM	15	0	18.65	18.78	18.79		
3	64QAM	1	0	18.73	18.68	18.78	19.5	
3	64QAM	1	8	18.73	18.81	18.84		
3	64QAM	1	14	18.82	18.63	18.76		
3	64QAM	8	0	18.76	18.62	18.75	19.5	
3	64QAM	8	4	18.79	18.69	18.77		
3	64QAM	8	7	18.72	18.73	18.74		
3	64QAM	15	0	18.79	18.63	18.66	19.5	
Channel				19957	20175	20393		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	19.75	19.76	19.59	20.5	
1.4	QPSK	1	3	19.61	19.62	19.61		
1.4	QPSK	1	5	19.66	19.56	19.60		
1.4	QPSK	3	0	18.76	18.80	18.66		
1.4	QPSK	3	1	18.73	18.79	18.78		
1.4	QPSK	3	3	18.78	18.60	18.63		
1.4	QPSK	6	0	18.77	18.73	18.72	19.5	
1.4	16QAM	1	0	18.69	18.76	18.68		
1.4	16QAM	1	3	18.94	18.79	18.85		
1.4	16QAM	1	5	19.02	18.74	19.11	19.5	
1.4	16QAM	3	0	18.67	18.64	18.71		
1.4	16QAM	3	1	18.80	18.80	18.75		
1.4	16QAM	3	3	18.66	18.76	18.72	19.5	
1.4	16QAM	6	0	18.79	18.77	18.87		
1.4	64QAM	1	0	18.80	18.67	18.87		
1.4	64QAM	1	3	18.91	18.76	18.94	19.5	
1.4	64QAM	1	5	18.67	18.61	18.74		
1.4	64QAM	3	0	18.78	18.61	18.75		
1.4	64QAM	3	1	18.75	18.71	18.69		
1.4	64QAM	3	3	18.66	18.71	18.62		
1.4	64QAM	6	0	18.74	18.82	18.76		



Band 5 (Cellular Band) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.76	22.92	22.61	23.5
10	QPSK	1	25	22.84	22.84	22.91	
10	QPSK	1	49	22.77	22.79	22.70	
10	QPSK	25	0	21.64	21.93	21.72	22.5
10	QPSK	25	12	21.66	21.61	21.68	
10	QPSK	25	25	21.77	21.66	21.64	
10	QPSK	50	0	21.68	21.64	21.58	22.5
10	16QAM	1	0	22.00	22.06	21.96	
10	16QAM	1	25	22.03	22.03	21.98	
10	16QAM	1	49	21.98	21.80	21.94	22.5
10	16QAM	25	0	21.81	21.68	21.91	
10	16QAM	25	12	21.81	21.74	21.84	
10	16QAM	25	25	21.85	21.71	21.62	22.5
10	16QAM	50	0	21.75	21.74	21.64	
10	64QAM	1	0	21.73	21.90	21.98	
10	64QAM	1	25	21.94	21.80	21.85	22.5
10	64QAM	1	49	21.93	21.60	21.88	
10	64QAM	25	0	21.70	21.73	21.87	
10	64QAM	25	12	21.86	21.85	21.75	22.5
10	64QAM	25	25	21.91	21.59	21.61	
10	64QAM	50	0	21.78	21.67	21.64	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.77	22.69	22.72	23.5
5	QPSK	1	12	22.76	22.76	22.72	
5	QPSK	1	24	22.69	22.67	22.63	
5	QPSK	12	0	21.92	21.93	21.79	22.5
5	QPSK	12	7	21.83	21.75	21.69	
5	QPSK	12	13	21.83	21.76	21.64	
5	QPSK	25	0	21.78	21.77	21.66	22.5
5	16QAM	1	0	21.76	21.89	21.58	
5	16QAM	1	12	22.01	21.87	21.87	
5	16QAM	1	24	21.73	21.83	22.03	22.5
5	16QAM	12	0	21.76	21.67	21.67	
5	16QAM	12	7	21.88	21.78	21.73	
5	16QAM	12	13	21.81	21.71	21.49	22.5
5	16QAM	25	0	21.80	21.62	21.51	
5	64QAM	1	0	21.94	21.78	21.73	
5	64QAM	1	12	22.00	21.93	21.94	22.5
5	64QAM	1	24	21.93	21.55	21.73	
5	64QAM	12	0	21.72	21.56	21.61	
5	64QAM	12	7	21.79	21.80	21.63	22.5
5	64QAM	12	13	21.72	21.69	21.60	
5	64QAM	25	0	21.70	21.74	21.67	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.68	22.79	22.61	23.5
3	QPSK	1	8	22.75	22.67	22.62	
3	QPSK	1	14	22.71	22.65	22.72	
3	QPSK	8	0	21.81	21.93	21.81	22.5
3	QPSK	8	4	21.81	21.69	21.80	
3	QPSK	8	7	21.84	21.75	21.62	
3	QPSK	15	0	21.75	21.66	21.75	22.5
3	16QAM	1	0	21.68	21.80	21.69	
3	16QAM	1	8	21.70	21.70	21.70	
3	16QAM	1	14	21.71	21.55	21.54	22.5
3	16QAM	8	0	21.74	21.53	21.76	
3	16QAM	8	4	21.81	21.74	21.66	
3	16QAM	8	7	21.80	21.61	21.63	22.5
3	16QAM	15	0	21.68	21.61	21.81	
3	64QAM	1	0	21.94	21.78	21.79	
3	64QAM	1	8	21.86	22.02	21.78	22.5
3	64QAM	1	14	21.89	21.56	21.68	
3	64QAM	8	0	21.85	21.89	21.70	
3	64QAM	8	4	21.77	21.84	21.86	22.5
3	64QAM	8	7	21.89	21.71	21.71	
3	64QAM	15	0	21.89	21.81	21.87	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.77	22.78	22.75	23.5
1.4	QPSK	1	3	22.77	22.66	22.65	
1.4	QPSK	1	5	22.67	22.61	22.73	
1.4	QPSK	3	0	21.70	21.81	21.74	22.5
1.4	QPSK	3	1	21.57	21.65	21.57	
1.4	QPSK	3	3	21.70	21.66	21.65	
1.4	QPSK	6	0	22.00	21.85	21.92	22.5
1.4	16QAM	1	0	21.88	21.69	21.91	
1.4	16QAM	1	3	22.05	21.91	21.98	
1.4	16QAM	1	5	21.84	22.00	21.92	22.5
1.4	16QAM	3	0	21.97	21.88	21.88	
1.4	16QAM	3	1	21.87	22.02	21.88	
1.4	16QAM	3	3	21.91	21.77	21.76	22.5
1.4	16QAM	6	0	21.83	21.80	21.85	
1.4	64QAM	1	0	21.87	21.94	21.78	
1.4	64QAM	1	3	21.78	21.86	21.96	22.5
1.4	64QAM	1	5	21.88	21.89	21.78	
1.4	64QAM	3	0	21.82	21.94	21.83	
1.4	64QAM	3	1	21.89	21.86	22.01	22.5
1.4	64QAM	3	3	21.76	21.75	21.78	
1.4	64QAM	6	0	21.78	21.78	21.76	

Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.52	17.66	17.63	18.5
20	QPSK	1	49	17.61	17.60	17.61	
20	QPSK	1	99	17.49	17.55	17.60	
20	QPSK	50	0	16.72	16.86	16.66	17.5
20	QPSK	50	24	16.71	16.76	16.75	
20	QPSK	50	50	16.80	16.79	16.75	
20	QPSK	100	0	16.77	16.74	16.71	17.5
20	16QAM	1	0	16.73	16.84	16.82	
20	16QAM	1	49	16.85	16.73	16.66	
20	16QAM	1	99	16.89	16.70	16.79	17.5
20	16QAM	50	0	16.53	16.64	16.65	
20	16QAM	50	24	16.71	16.62	16.67	
20	16QAM	50	50	16.77	16.73	16.69	17.5
20	16QAM	100	0	16.68	16.60	16.62	
20	64QAM	1	0	16.78	16.80	16.80	
20	64QAM	1	49	16.72	16.75	16.77	17.5
20	64QAM	1	99	16.82	16.78	16.74	
20	64QAM	50	0	16.49	16.73	16.62	
20	64QAM	50	24	16.63	16.64	16.66	17.5
20	64QAM	50	50	16.70	16.67	16.66	
20	64QAM	100	0	16.61	16.67	16.62	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.62	17.64	17.55	18.5
15	QPSK	1	37	17.59	17.56	17.60	
15	QPSK	1	74	17.59	17.54	17.62	
15	QPSK	36	0	16.64	16.84	16.69	17.5
15	QPSK	36	20	16.65	16.77	16.69	
15	QPSK	36	39	16.75	16.72	16.67	
15	QPSK	75	0	16.74	16.68	16.64	17.5
15	16QAM	1	0	16.89	16.46	16.67	
15	16QAM	1	37	16.56	16.87	16.81	
15	16QAM	1	74	16.88	16.78	16.86	17.5
15	16QAM	36	0	16.63	16.60	16.62	
15	16QAM	36	20	16.64	16.63	16.74	
15	16QAM	36	39	16.66	16.59	16.70	17.5
15	16QAM	75	0	16.76	16.71	16.61	
15	64QAM	1	0	16.80	16.86	16.78	
15	64QAM	1	37	16.87	16.89	16.73	17.5
15	64QAM	1	74	16.71	16.74	16.71	
15	64QAM	36	0	16.58	16.57	16.67	
15	64QAM	36	20	16.61	16.77	16.63	17.5
15	64QAM	36	39	16.72	16.64	16.61	
15	64QAM	75	0	16.70	16.70	16.68	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.54	17.58	17.41	18.5
10	QPSK	1	25	17.51	17.43	17.56	
10	QPSK	1	49	17.54	17.44	17.40	
10	QPSK	25	0	16.60	16.76	16.70	17.5
10	QPSK	25	12	16.62	16.66	16.56	
10	QPSK	25	25	16.65	16.62	16.75	
10	QPSK	50	0	16.74	16.56	16.66	17.5
10	16QAM	1	0	16.57	16.83	16.63	
10	16QAM	1	25	16.60	16.71	16.69	
10	16QAM	1	49	16.67	16.38	16.66	17.5
10	16QAM	25	0	16.52	16.57	16.75	
10	16QAM	25	12	16.59	16.64	16.68	
10	16QAM	25	25	16.62	16.62	16.73	17.5
10	16QAM	50	0	16.70	16.48	16.65	
10	64QAM	1	0	16.59	16.56	16.72	
10	64QAM	1	25	16.70	16.71	16.57	17.5
10	64QAM	1	49	16.66	16.50	16.62	
10	64QAM	25	0	16.56	16.51	16.60	
10	64QAM	25	12	16.46	16.59	16.66	17.5
10	64QAM	25	25	16.68	16.59	16.74	
10	64QAM	50	0	16.69			

Band 26 for FCC (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.53	22.73	22.57	23.5
15	QPSK	1	37	22.61	22.55	22.63	
15	QPSK	1	74	22.55	22.52	22.52	
15	QPSK	36	0	21.53	21.76	21.51	22.5
15	QPSK	36	20	21.65	21.61	21.53	
15	QPSK	36	39	21.64	21.63	21.60	
15	QPSK	75	0	21.50	21.45	21.45	22.5
15	16QAM	1	0	21.81	21.52	21.77	
15	16QAM	1	37	21.58	21.67	21.74	
15	16QAM	1	74	21.94	21.55	21.63	22.5
15	16QAM	36	0	21.62	21.54	21.61	
15	16QAM	36	20	21.54	21.55	21.68	
15	16QAM	36	39	21.58	21.46	21.58	22.5
15	16QAM	75	0	21.50	21.50	21.59	
15	64QAM	1	0	21.56	21.93	21.53	
15	64QAM	1	37	21.65	21.64	21.77	22.5
15	64QAM	1	74	21.46	21.83	21.57	
15	64QAM	36	0	21.64	21.73	21.60	
15	64QAM	36	20	21.67	21.64	21.72	22.5
15	64QAM	36	39	21.61	21.61	21.62	
15	64QAM	75	0	21.61	21.62	21.69	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.53	22.68	22.66	23.5
10	QPSK	1	25	22.54	22.65	22.59	
10	QPSK	1	49	22.57	22.52	22.53	
10	QPSK	25	0	21.51	21.73	21.60	22.5
10	QPSK	25	12	21.49	21.58	21.59	
10	QPSK	25	25	21.57	21.56	21.45	
10	QPSK	50	0	21.62	21.61	21.50	22.5
10	16QAM	1	0	21.54	21.63	21.88	
10	16QAM	1	25	21.68	21.62	21.95	
10	16QAM	1	49	21.69	21.74	21.66	22.5
10	16QAM	25	0	21.66	21.52	21.56	
10	16QAM	25	12	21.67	21.56	21.63	
10	16QAM	25	25	21.55	21.50	21.60	22.5
10	16QAM	50	0	21.65	21.56	21.61	
10	64QAM	1	0	21.59	21.68	21.63	
10	64QAM	1	25	21.83	21.82	21.78	22.5
10	64QAM	1	49	21.57	21.56	21.48	
10	64QAM	25	0	21.48	21.59	21.66	
10	64QAM	25	12	21.50	21.66	21.57	22.5
10	64QAM	25	25	21.54	21.80	21.54	
10	64QAM	50	0	21.69	21.66	21.51	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.54	22.63	22.61	23.5
5	QPSK	1	12	22.60	22.56	22.58	
5	QPSK	1	24	22.61	22.59	22.53	
5	QPSK	12	0	21.65	21.72	21.69	22.5
5	QPSK	12	7	21.74	21.60	21.65	
5	QPSK	12	13	21.69	21.66	21.51	
5	QPSK	25	0	21.64	21.67	21.61	22.5
5	16QAM	1	0	21.65	21.55	21.53	
5	16QAM	1	12	21.85	21.76	21.78	
5	16QAM	1	24	21.85	21.42	21.72	22.5
5	16QAM	12	0	21.48	21.68	21.73	
5	16QAM	12	7	21.60	21.78	21.56	
5	16QAM	12	13	21.55	21.71	21.65	22.5
5	16QAM	25	0	21.60	21.60	21.64	
5	64QAM	1	0	21.55	21.62	21.62	
5	64QAM	1	12	21.81	21.54	21.80	22.5
5	64QAM	1	24	21.64	21.66	21.68	
5	64QAM	12	0	21.57	21.62	21.52	
5	64QAM	12	7	21.74	21.65	21.54	22.5
5	64QAM	12	13	21.53	21.50	21.52	
5	64QAM	25	0	21.54	21.68	21.70	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.58	22.65	22.55	23.5
3	QPSK	1	8	22.55	22.51	22.62	
3	QPSK	1	14	22.52	22.63	22.61	
3	QPSK	8	0	21.64	21.76	21.77	22.5
3	QPSK	8	4	21.73	21.65	21.69	
3	QPSK	8	7	21.63	21.63	21.53	
3	QPSK	15	0	21.61	21.69	21.62	22.5
3	16QAM	1	0	21.92	21.60	21.73	
3	16QAM	1	8	21.78	21.64	21.62	
3	16QAM	1	14	21.82	21.58	21.48	22.5
3	16QAM	8	0	21.49	21.60	21.57	
3	16QAM	8	4	21.55	21.63	21.56	
3	16QAM	8	7	21.57	21.66	21.57	22.5
3	16QAM	15	0	21.57	21.51	21.50	
3	64QAM	1	0	21.49	21.62	21.51	
3	64QAM	1	8	21.84	21.58	21.52	22.5
3	64QAM	1	14	21.84	21.55	21.67	
3	64QAM	8	0	21.53	21.66	21.58	
3	64QAM	8	4	21.60	21.55	21.70	22.5
3	64QAM	8	7	21.64	21.62	21.67	
3	64QAM	15	0	21.65	21.49	21.56	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.64	22.66	22.51	23.5
1.4	QPSK	1	3	22.64	22.63	22.62	
1.4	QPSK	1	5	22.51	22.57	22.62	
1.4	QPSK	3	0	21.71	21.78	21.74	23.5
1.4	QPSK	3	1	21.77	21.72	21.77	
1.4	QPSK	3	3	21.73	21.59	21.73	
1.4	QPSK	6	0	21.64	21.60	21.61	23.5
1.4	16QAM	1	0	21.76	21.57	21.66	

Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.49	19.70	19.53	20.5
20	QPSK	1	49	19.56	19.55	19.57	
20	QPSK	1	99	19.47	19.49	19.39	
20	QPSK	50	0	18.60	18.66	18.56	19.5
20	QPSK	50	24	18.57	18.63	18.57	
20	QPSK	50	50	18.57	18.61	18.55	
20	QPSK	100	0	18.53	18.53	18.59	19.5
20	16QAM	1	0	18.70	18.58	18.77	
20	16QAM	1	49	18.99	18.71	18.73	
20	16QAM	1	99	18.73	18.68	18.60	19.5
20	16QAM	50	0	18.63	18.65	18.52	
20	16QAM	50	24	18.69	18.64	18.68	
20	16QAM	50	50	18.66	18.61	18.62	19.5
20	16QAM	100	0	18.62	18.67	18.59	
20	64QAM	1	0	18.57	18.52	18.54	
20	64QAM	1	49	18.54	18.91	18.76	19.5
20	64QAM	1	99	18.64	18.65	18.56	
20	64QAM	50	0	18.59	18.59	18.55	
20	64QAM	50	24	18.77	18.73	18.65	19.5
20	64QAM	50	50	18.67	18.58	18.59	
20	64QAM	100	0	18.61	18.64	18.59	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.51	19.66	19.64	20.5
15	QPSK	1	37	19.63	19.60	19.54	
15	QPSK	1	74	19.54	19.62	19.62	
15	QPSK	36	0	18.59	18.61	18.59	19.5
15	QPSK	36	20	18.56	18.51	18.52	
15	QPSK	36	39	18.61	18.65	18.68	
15	QPSK	75	0	18.53	18.60	18.54	19.5
15	16QAM	1	0	18.55	18.53	18.58	
15	16QAM	1	37	18.73	18.51	18.63	
15	16QAM	1	74	18.52	18.62	18.65	19.5
15	16QAM	36	0	18.63	18.55	18.58	
15	16QAM	36	20	18.55	18.57	18.60	
15	16QAM	36	39	18.67	18.63	18.60	19.5
15	16QAM	75	0	18.68	18.56	18.55	
15	64QAM	1	0	18.56	18.82	18.79	
15	64QAM	1	37	18.62	18.70	18.72	19.5
15	64QAM	1	74	18.60	18.88	18.52	
15	64QAM	36	0	18.56	18.69	18.68	
15	64QAM	36	20	18.55	18.67	18.59	19.5
15	64QAM	36	39	18.56	18.60	18.60	
15	64QAM	75	0	18.60	18.57	18.65	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.55	19.62	19.53	20.5
10	QPSK	1	25	19.61	19.55	19.59	
10	QPSK	1	49	19.61	19.53	19.50	
10	QPSK	25	0	18.54	18.61	18.54	19.5
10	QPSK	25	12	18.59	18.58	18.54	
10	QPSK	25	25	18.59	18.58	18.51	
10	QPSK	50	0	18.58	18.57	18.57	19.5
10	16QAM	1	0	18.60	18.65	18.66	
10	16QAM	1	25	18.87	18.57	18.67	
10	16QAM	1	49	18.61	18.79	18.71	19.5
10	16QAM	25	0	18.68	18.71	18.69	
10	16QAM	25	12	18.81	18.79	18.	

1.4	16QAM	1	3	21.76	21.72	21.72	22.5
1.4	16QAM	1	5	21.66	21.62	21.49	
1.4	16QAM	3	0	21.62	21.67	21.62	
1.4	16QAM	3	1	21.50	21.55	21.68	22.5
1.4	16QAM	3	3	21.63	21.55	21.49	
1.4	16QAM	6	0	21.65	21.63	21.73	
1.4	64QAM	1	0	21.78	21.70	21.54	22.5
1.4	64QAM	1	3	21.54	21.72	21.72	
1.4	64QAM	1	5	21.49	21.75	21.59	
1.4	64QAM	3	0	21.60	21.66	21.55	22.5
1.4	64QAM	3	1	21.57	21.63	21.66	
1.4	64QAM	3	3	21.57	21.54	21.51	
1.4	64QAM	6	0	21.55	21.52	21.64	

3	16QAM	1	8	18.98	18.95	18.67	19.5
3	16QAM	1	14	18.65	18.64	18.65	
3	16QAM	8	0	18.66	18.71	18.54	
3	16QAM	8	4	18.66	18.63	18.61	19.5
3	16QAM	8	7	18.59	18.71	18.64	
3	16QAM	15	0	18.77	18.59	18.60	
3	64QAM	1	0	18.58	18.59	18.63	19.5
3	64QAM	1	8	18.61	18.86	18.87	
3	64QAM	1	14	18.59	18.59	18.82	
3	64QAM	8	0	18.62	18.69	18.63	19.5
3	64QAM	8	4	18.72	18.69	18.57	
3	64QAM	8	7	18.67	18.60	18.60	
3	64QAM	15	0	18.62	18.62	18.72	
Channel				13197.9	13232.2	13266.5	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.53	19.62	19.57	20.5
1.4	QPSK	1	3	19.56	19.61	19.61	
1.4	QPSK	1	5	19.56	19.44	19.55	
1.4	QPSK	3	0	18.53	18.61	18.52	
1.4	QPSK	3	1	18.55	18.57	18.58	
1.4	QPSK	3	3	18.52	18.54	18.57	
1.4	QPSK	6	0	18.54	18.56	18.53	19.5
1.4	16QAM	1	0	18.71	18.52	18.71	19.5
1.4	16QAM	1	3	18.76	18.62	18.78	
1.4	16QAM	1	5	18.65	18.59	18.70	
1.4	16QAM	3	0	18.75	18.78	18.58	
1.4	16QAM	3	1	18.83	18.69	18.64	
1.4	16QAM	3	3	18.69	18.72	18.63	
1.4	16QAM	6	0	18.76	18.73	18.80	19.5
1.4	64QAM	1	0	18.62	18.64	18.55	19.5
1.4	64QAM	1	3	18.92	18.54	18.59	
1.4	64QAM	1	5	18.82	18.52	18.66	
1.4	64QAM	3	0	18.86	18.84	18.91	
1.4	64QAM	3	1	18.96	18.92	18.94	
1.4	64QAM	3	3	18.84	18.86	18.98	
1.4	64QAM	6	0	18.88	18.93	18.71	19.5

## Reduced Power Level 1

### 2.4GHz WLAN ANT 6

2.4GHz WLAN ANT 6	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	15.46	16.00	16.00	100.00
		CH 6	2437	15.24	16.00	16.00	
		CH 11	2462	15.74	16.50	16.00	
	802.11g 6Mbps	CH 1	2412	5.84	6.50	6.00	96.86
		CH 6	2437	14.32	15.00	15.00	
		CH 11	2462	5.91	6.50	6.00	
	802.11n-HT20 MCS0	CH 1	2412	5.71	6.50	6.00	96.65
		CH 6	2437	14.12	15.00	15.00	
		CH 11	2462	5.75	6.50	6.00	

### Band 7 (Reduced Power Level 2 for ANT 4)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.36	17.50	17.48	18.5
20	QPSK	1	49	17.45	17.44	17.46	
20	QPSK	1	99	17.33	17.39	17.45	17.5
20	QPSK	50	0	16.66	16.80	16.61	
20	QPSK	50	24	16.65	16.70	16.70	17.5
20	QPSK	50	50	16.74	16.73	16.70	
20	QPSK	100	0	16.71	16.68	16.66	17.5
20	16QAM	1	0	16.67	16.78	16.77	
20	16QAM	1	49	16.79	16.67	16.61	17.5
20	16QAM	1	99	16.85	16.64	16.74	
20	16QAM	50	0	16.47	16.58	16.60	17.5
20	16QAM	50	24	16.65	16.56	16.62	
20	16QAM	50	50	16.71	16.67	16.64	17.5
20	16QAM	100	0	16.62	16.54	16.57	
20	64QAM	1	0	16.72	16.74	16.75	17.5
20	64QAM	1	49	16.66	16.69	16.72	
20	64QAM	1	99	16.76	16.72	16.69	17.5
20	64QAM	50	0	16.43	16.67	16.57	
20	64QAM	50	24	16.57	16.58	16.61	17.5
20	64QAM	50	50	16.64	16.61	16.61	
20	64QAM	100	0	16.55	16.61	16.57	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.47	17.48	17.40	18.5
15	QPSK	1	37	17.44	17.40	17.45	
15	QPSK	1	74	17.44	17.38	17.47	17.5
15	QPSK	36	0	16.59	16.84	16.64	
15	QPSK	36	20	16.60	16.71	16.64	17.5
15	QPSK	36	39	16.70	16.66	16.62	
15	QPSK	75	0	16.69	16.62	16.59	17.5
15	16QAM	1	0	16.85	16.40	16.62	
15	16QAM	1	37	16.51	16.84	16.76	17.5
15	16QAM	1	74	16.83	16.72	16.81	
15	16QAM	36	0	16.58	16.54	16.57	17.5
15	16QAM	36	20	16.59	16.57	16.69	
15	16QAM	36	39	16.61	16.53	16.65	17.5
15	16QAM	75	0	16.71	16.65	16.56	
15	64QAM	1	0	16.75	16.80	16.73	17.5
15	64QAM	1	37	16.82	16.85	16.68	
15	64QAM	1	74	16.66	16.68	16.66	17.5
15	64QAM	36	0	16.53	16.51	16.62	
15	64QAM	36	20	16.56	16.71	16.58	17.5
15	64QAM	36	39	16.67	16.58	16.56	
15	64QAM	75	0	16.65	16.64	16.63	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.45	17.49	17.32	18.5
10	QPSK	1	25	17.42	17.34	17.47	
10	QPSK	1	49	17.45	17.35	17.31	17.5
10	QPSK	25	0	16.61	16.77	16.71	
10	QPSK	25	12	16.63	16.67	16.57	17.5
10	QPSK	25	25	16.66	16.63	16.76	
10	QPSK	50	0	16.75	16.57	16.67	17.5
10	16QAM	1	0	16.58	16.84	16.64	
10	16QAM	1	25	16.61	16.72	16.70	17.5
10	16QAM	1	49	16.68	16.39	16.67	
10	16QAM	25	0	16.53	16.58	16.76	17.5
10	16QAM	25	12	16.60	16.65	16.69	
10	16QAM	25	25	16.63	16.63	16.74	17.5
10	16QAM	50	0	16.71	16.49	16.66	
10	64QAM	1	0	16.60	16.57	16.73	17.5
10	64QAM	1	25	16.71	16.72	16.58	
10	64QAM	1	49	16.67	16.51	16.63	17.5
10	64QAM	25	0	16.57	16.52	16.61	
10	64QAM	25	12	16.47	16.60	16.67	17.5
10	64QAM	25	25	16.69	16.60	16.75	
10	64QAM	50	0	16.70	16.53	16.65	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.34	17.53	17.37	18.5
5	QPSK	1	12	17.44	17.42	17.26	
5	QPSK	1	24	17.32	17.45	17.45	17.5
5	QPSK	12	0	16.53	16.60	16.65	
5	QPSK	12	7	16.74	16.64	16.73	17.5
5	QPSK	12	13	16.55	16.60	16.68	
5	QPSK	25	0	16.65	16.63	16.67	17.5
5	16QAM	1	0	16.82	16.60	16.54	
5	16QAM	1	12	16.68	16.76	16.69	17.5
5	16QAM	1	24	16.82	16.55	16.65	
5	16QAM	12	0	16.58	16.57	16.66	17.5
5	16QAM	12	7	16.55	16.65	16.68	
5	16QAM	12	13	16.61	16.52	16.64	17.5
5	16QAM	25	0	16.64	16.59	16.53	
5	64QAM	1	0	16.83	16.50	16.55	17.5
5	64QAM	1	12	16.69	16.80	16.84	
5	64QAM	1	24	16.37	16.60	16.59	17.5
5	64QAM	12	0	16.53	16.62	16.70	
5	64QAM	12	7	16.61	16.84	16.60	17.5
5	64QAM	12	13	16.70	16.78	16.60	
5	64QAM	25	0	16.78	16.83	16.56	

### Reduced Power Level 3

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	21.17	21.25	21.10	22.00	19.88	20.01	19.97	20.90
3GPP Rel 6	HSDPA Subtest-1	19.98	19.92	19.87	20.50	18.80	18.83	18.78	19.40
3GPP Rel 6	HSDPA Subtest-2	20.00	19.95	19.81	20.50	18.84	18.81	18.79	19.40
3GPP Rel 6	HSDPA Subtest-3	19.53	19.42	19.28	20.00	18.31	18.28	18.31	18.90
3GPP Rel 6	HSDPA Subtest-4	19.47	19.43	19.29	20.00	18.31	18.26	18.27	18.90
3GPP Rel 6	HSUPA Subtest-1	19.44	19.41	19.27	20.00	18.31	18.24	18.21	18.90
3GPP Rel 6	HSUPA Subtest-2	20.01	19.89	19.74	20.50	18.75	18.71	18.74	19.40
3GPP Rel 6	HSUPA Subtest-3	19.01	18.89	18.77	19.50	17.79	17.77	17.76	18.40
3GPP Rel 6	HSUPA Subtest-4	20.00	19.84	19.80	20.50	18.77	18.79	18.71	19.40
3GPP Rel 6	HSUPA Subtest-5	18.93	18.86	18.70	19.50	17.77	17.74	17.76	18.40
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.98	18.89	18.84	19.50	17.78	17.74	17.74	18.40
Attenuator			Cable Loss	0.8		Cable Loss	0.8		
Mode			Max.	21.25		Max.	20.01		

Band 2 (1900MHz Band) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				18600	18800	19000	
20	QPSK	1	0	21.61	21.76	21.73	
20	QPSK	1	49	21.66	21.71	21.65	22.5
20	QPSK	1	99	21.47	21.47	21.55	
20	QPSK	50	0	20.73	20.80	20.72	
20	QPSK	50	24	20.60	20.74	20.60	21.5
20	QPSK	50	50	20.60	20.74	20.65	
20	QPSK	100	0	20.75	20.68	20.75	
20	16QAM	1	0	20.87	20.92	20.66	21.5
20	16QAM	1	49	20.86	20.88	20.62	
20	16QAM	1	99	20.60	20.70	20.96	
20	16QAM	50	0	20.89	20.82	20.85	21.5
20	16QAM	50	24	20.82	20.85	20.85	
20	16QAM	50	50	20.87	20.79	20.77	
20	16QAM	100	0	20.77	20.84	20.84	21.5
20	64QAM	1	0	20.90	20.67	20.81	
20	64QAM	1	49	20.82	20.85	20.67	
20	64QAM	1	99	20.66	20.65	20.62	21.5
20	64QAM	50	0	20.76	20.63	20.65	
20	64QAM	50	24	20.74	20.69	20.62	
20	64QAM	50	50	20.75	20.61	20.83	21.5
20	64QAM	100	0	20.77	20.74	20.60	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.73	21.74	21.71	22.5
15	QPSK	1	37	21.57	21.64	21.46	
15	QPSK	1	74	21.65	21.51	21.38	
15	QPSK	36	0	20.76	20.79	20.65	21.5
15	QPSK	36	20	20.78	20.68	20.61	
15	QPSK	36	39	20.75	20.64	20.60	
15	QPSK	75	0	20.76	20.72	20.62	21.5
15	16QAM	1	0	21.07	20.64	20.88	
15	16QAM	1	37	20.81	20.86	20.62	
15	16QAM	1	74	20.83	20.70	20.75	21.5
15	16QAM	36	0	20.79	20.67	20.63	
15	16QAM	36	20	20.80	20.65	20.62	
15	16QAM	36	39	20.79	20.75	20.73	21.5
15	16QAM	75	0	20.80	20.61	20.63	
15	64QAM	1	0	20.75	20.80	20.64	
15	64QAM	1	37	20.68	20.62	20.94	21.5
15	64QAM	1	74	20.90	20.65	20.63	
15	64QAM	36	0	20.77	20.63	20.61	
15	64QAM	36	20	20.75	20.72	20.67	21.5
15	64QAM	36	39	20.81	20.67	20.62	
15	64QAM	75	0	20.68	20.65	20.64	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.42	21.70	21.69	22.5
10	QPSK	1	25	21.62	21.54	21.61	
10	QPSK	1	49	21.62	21.61	21.59	
10	QPSK	25	0	20.64	20.71	20.63	21.5
10	QPSK	25	12	20.68	20.65	20.69	
10	QPSK	25	25	20.68	20.60	20.62	
10	QPSK	50	0	20.64	20.73	20.60	21.5
10	16QAM	1	0	20.61	20.78	20.77	
10	16QAM	1	25	20.64	20.73	20.63	
10	16QAM	1	49	20.74	20.66	20.75	21.5
10	16QAM	25	0	20.79	20.74	20.69	
10	16QAM	25	12	20.86	20.80	20.63	
10	16QAM	25	25	20.64	20.65	20.66	21.5
10	16QAM	50	0	20.83	20.60	20.73	
10	64QAM	1	0	20.61	20.66	20.68	
10	64QAM	1	25	20.87	20.85	20.66	21.5
10	64QAM	1	49	20.86	20.68	20.77	
10	64QAM	25	0	20.85	20.73	20.73	
10	64QAM	25	12	20.84	20.82	20.69	21.5
10	64QAM	25	25	20.78	20.66	20.64	
10	64QAM	50	0	20.72	20.63	20.67	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.21	21.60	21.23	22.5
5	QPSK	1	12	21.44	21.48	21.31	
5	QPSK	1	24	21.16	21.26	21.37	
5	QPSK	12	0	20.75	20.83	20.63	21.5
5	QPSK	12	7	20.83	20.81	20.68	
5	QPSK	12	13	20.68	20.67	20.75	
5	QPSK	25	0	20.68	20.70	20.84	21.5
5	16QAM	1	0	20.63	20.74	20.75	
5	16QAM	1	12	20.70	20.74	20.73	
5	16QAM	1	24	20.80	20.63	20.65	21.5
5	16QAM	12	0	20.78	20.70	20.73	
5	16QAM	12	7	20.88	20.79	20.77	
5	16QAM	12	13	20.77	20.77	20.77	21.5
5	16QAM	25	0	20.73	20.80	20.75	
5	64QAM	1	0	20.61	20.96	20.72	
5	64QAM	1	12	20.65	20.84	20.92	21.5
5	64QAM	1	24	20.68	20.62	20.70	
5	64QAM	12	0	20.75	20.70	20.79	
5	64QAM	12	7	20.86	20.78	20.77	21.5
5	64QAM	12	13	20.71	20.72	20.73	
5	64QAM	25	0	20.66	20.83	20.75	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.54	21.65	21.32	22.5
3	QPSK	1	8	21.57	21.39	21.36	
3	QPSK	1	14	21.59	21.47	21.37	
3	QPSK	8	0	20.75	20.82	20.72	21.5
3	QPSK	8	4	20.64	20.78	20.73	
3	QPSK	8	7	20.62	20.75	20.81	
3	QPSK	15	0	20.71	20.79	20.67	21.5
3	16QAM	1	0	20.74	20.79	20.81	

Band 4 (AWS Band) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.58	20.68	20.57	
20	QPSK	1	49	20.58	20.52	20.52	21.5
20	QPSK	1	99	20.50	20.54	20.58	
20	QPSK	50	0	19.59	19.88	19.81	
20	QPSK	50	24	19.58	19.51	19.75	20.5
20	QPSK	50	50	19.77	19.62	19.59	
20	QPSK	100	0	19.71	19.55	19.74	
20	16QAM	1	0	19.55	19.51	19.62	20.5
20	16QAM	1	49	19.84	19.74	19.81	
20	16QAM	1	99	19.69	19.50	19.53	
20	16QAM	50	0	19.56	19.63	19.76	20.5
20	16QAM	50	24	19.66	19.54	19.70	
20	16QAM	50	50	19.80	19.55	19.58	
20	16QAM	100	0	19.66	19.59	19.82	20.5
20	64QAM	1	0	19.57	19.78	19.54	
20	64QAM	1	49	19.69	19.68	19.66	
20	64QAM	1	99	19.53	19.65	19.56	20.5
20	64QAM	50	0	19.59	19.66	19.77	
20	64QAM	50	24	19.68	19.50	19.70	
20	64QAM	50	50	19.65	19.51	19.62	20.5
20	64QAM	100	0	19.69	19.52	19.78	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.62	20.74	20.50	21.5
15	QPSK	1	37	20.62	20.62	20.70	
15	QPSK	1	74	20.32	20.26	20.41	
15	QPSK	36	0	19.56	19.58	19.65	20.5
15	QPSK	36	20	19.65	19.60	19.61	
15	QPSK	36	39	19.66	19.53	19.57	
15	QPSK	75	0	19.62	19.64	19.65	20.5
15	16QAM	1	0	19.64	19.64	19.66	
15	16QAM	1	37	19.53	19.93	19.61	
15	16QAM	1	74	19.79	19.54	19.64	20.5
15	16QAM	36	0	19.51	19.50	19.64	
15	16QAM	36	20	19.54	19.61	19.64	
15	16QAM	36	39	19.79	19.54	19.60	20.5
15	16QAM	75	0	19.73	19.57	19.68	
15	64QAM	1	0	19.51	19.58	19.52	
15	64QAM	1	37	19.66	19.56	19.55	20.5
15	64QAM	1	74	19.51	19.65	19.50	
15	64QAM	36	0	19.59	19.65	19.66	
15	64QAM	36	20	19.68	19.52	19.56	20.5
15	64QAM	36	39	19.59	19.51	19.63	
15	64QAM	75	0	19.64	19.54	19.64	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.45	20.84	20.61	21.5
10	QPSK	1	25	20.68	20.67	20.69	
10	QPSK	1	49	20.45	20.49	20.44	
10	QPSK	25	0	19.78	19.63	19.72	20.5
10	QPSK	25	12	19.62	19.59	19.65	
10	QPSK	25	25	19.71	19.65	19.64	
10	QPSK	50	0	19.79	19.57	19.71	20.5
10	16QAM	1	0	19.84	19.66	19.62	
10	16QAM	1	25	19.96	19.65	19.79	
10	16QAM	1	49	19.64	19.51	19.72	20.5
10	16QAM	25	0	19.67	19.71	19.70	

3	16QAM	1	8	20.80	20.62	20.86	21.5
3	16QAM	1	14	20.91	20.99	20.70	
3	16QAM	8	0	20.76	20.74	20.77	
3	16QAM	8	4	20.89	20.80	20.81	21.5
3	16QAM	8	7	20.76	20.72	20.62	
3	16QAM	15	0	20.71	20.74	20.73	
3	64QAM	1	0	20.72	20.80	20.79	21.5
3	64QAM	1	8	20.79	20.69	20.66	
3	64QAM	1	14	20.73	20.67	20.69	
3	64QAM	8	0	20.80	20.79	20.63	21.5
3	64QAM	8	4	20.73	20.73	20.70	
3	64QAM	8	7	20.72	20.70	20.66	
3	64QAM	15	0	20.86	20.80	20.71	21.5
Channel				18007	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.38	21.73	21.44	22.5
1.4	QPSK	1	3	21.66	21.61	21.68	
1.4	QPSK	1	5	21.51	21.50	21.69	
1.4	QPSK	3	0	20.62	20.70	20.65	
1.4	QPSK	3	1	20.85	20.78	20.69	
1.4	QPSK	3	3	20.68	20.71	20.65	
1.4	QPSK	6	0	20.83	20.76	20.61	21.5
1.4	16QAM	1	0	21.01	20.91	20.76	21.5
1.4	16QAM	1	3	20.60	20.62	20.88	
1.4	16QAM	1	5	20.65	20.78	20.62	
1.4	16QAM	3	0	20.67	20.60	20.73	
1.4	16QAM	3	1	20.71	20.65	20.69	
1.4	16QAM	3	3	20.60	20.74	20.64	
1.4	16QAM	6	0	20.81	20.69	20.64	21.5
1.4	64QAM	1	0	20.62	20.72	20.65	21.5
1.4	64QAM	1	3	20.74	20.75	20.70	
1.4	64QAM	1	5	20.94	20.69	20.65	
1.4	64QAM	3	0	20.68	20.61	20.60	
1.4	64QAM	3	1	20.78	20.62	20.64	
1.4	64QAM	3	3	20.74	20.64	20.69	
1.4	64QAM	6	0	20.68	20.70	20.60	21.5

3	16QAM	1	8	19.82	19.91	19.82	20.5
3	16QAM	1	14	19.73	19.71	19.77	
3	16QAM	8	0	19.70	19.58	19.70	
3	16QAM	8	4	19.81	19.69	19.81	20.5
3	16QAM	8	7	19.72	19.76	19.63	
3	16QAM	15	0	19.55	19.68	19.69	
3	64QAM	1	0	19.63	19.58	19.68	20.5
3	64QAM	1	8	19.63	19.71	19.74	
3	64QAM	1	14	19.72	19.53	19.66	
3	64QAM	8	0	19.66	19.52	19.65	20.5
3	64QAM	8	4	19.69	19.59	19.67	
3	64QAM	8	7	19.62	19.63	19.64	
3	64QAM	15	0	19.69	19.53	19.56	20.5
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.65	20.66	20.49	21.5
1.4	QPSK	1	3	20.51	20.52	20.51	
1.4	QPSK	1	5	20.56	20.46	20.50	
1.4	QPSK	3	0	19.66	19.70	19.56	
1.4	QPSK	3	1	19.63	19.69	19.68	
1.4	QPSK	3	3	19.68	19.50	19.53	
1.4	QPSK	6	0	19.67	19.63	19.62	20.5
1.4	16QAM	1	0	19.59	19.66	19.58	20.5
1.4	16QAM	1	3	19.84	19.69	19.75	
1.4	16QAM	1	5	19.92	19.64	20.01	
1.4	16QAM	3	0	19.57	19.54	19.61	
1.4	16QAM	3	1	19.70	19.70	19.65	
1.4	16QAM	3	3	19.56	19.66	19.62	
1.4	16QAM	6	0	19.69	19.67	19.77	20.5
1.4	64QAM	1	0	19.70	19.57	19.77	20.5
1.4	64QAM	1	3	19.81	19.66	19.84	
1.4	64QAM	1	5	19.57	19.51	19.64	
1.4	64QAM	3	0	19.68	19.51	19.65	
1.4	64QAM	3	1	19.65	19.61	19.59	
1.4	64QAM	3	3	19.56	19.61	19.52	
1.4	64QAM	6	0	19.64	19.72	19.66	20.5



Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up Limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	19.02	19.16	19.13	20
20	QPSK	1	49	19.11	19.10	19.11	
20	QPSK	1	99	18.99	19.05	19.10	
20	QPSK	50	0	18.22	18.36	18.16	
20	QPSK	50	24	18.21	18.26	18.25	19
20	QPSK	50	50	18.30	18.29	18.25	
20	QPSK	100	0	18.27	18.24	18.21	
20	16QAM	1	0	18.23	18.34	18.32	
20	16QAM	1	49	18.35	18.23	18.16	19
20	16QAM	1	99	18.39	18.20	18.29	
20	16QAM	50	0	18.03	18.14	18.15	
20	16QAM	50	24	18.21	18.12	18.17	
20	16QAM	50	50	18.27	18.23	18.19	19
20	16QAM	100	0	18.18	18.10	18.12	
20	64QAM	1	0	18.28	18.30	18.30	
20	64QAM	1	49	18.22	18.25	18.27	
20	64QAM	1	99	18.32	18.28	18.24	19
20	64QAM	50	0	17.99	18.23	18.12	
20	64QAM	50	24	18.13	18.14	18.16	
20	64QAM	50	50	18.20	18.17	18.16	
20	64QAM	100	0	18.11	18.17	18.12	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.12	19.14	19.05	20
15	QPSK	1	37	19.09	19.06	19.10	
15	QPSK	1	74	19.09	19.04	19.12	
15	QPSK	36	0	18.14	18.34	18.19	
15	QPSK	36	20	18.15	18.27	18.19	19
15	QPSK	36	39	18.25	18.22	18.17	
15	QPSK	75	0	18.24	18.18	18.14	
15	16QAM	1	0	18.39	17.96	18.17	
15	16QAM	1	37	18.06	18.37	18.31	19
15	16QAM	1	74	18.38	18.28	18.36	
15	16QAM	36	0	18.13	18.10	18.12	
15	16QAM	36	20	18.14	18.13	18.24	
15	16QAM	36	39	18.16	18.09	18.20	19
15	16QAM	75	0	18.26	18.21	18.11	
15	64QAM	1	0	18.30	18.36	18.28	
15	64QAM	1	37	18.37	18.39	18.23	
15	64QAM	1	74	18.21	18.24	18.21	19
15	64QAM	36	0	18.08	18.07	18.17	
15	64QAM	36	20	18.11	18.27	18.13	
15	64QAM	36	39	18.22	18.14	18.11	
15	64QAM	75	0	18.20	18.20	18.18	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	19.04	19.08	18.91	20
10	QPSK	1	25	19.01	18.93	19.06	
10	QPSK	1	49	19.04	18.94	18.90	
10	QPSK	25	0	18.10	18.26	18.20	
10	QPSK	25	12	18.12	18.16	18.06	19
10	QPSK	25	25	18.15	18.12	18.25	
10	QPSK	50	0	18.24	18.06	18.16	
10	16QAM	1	0	18.07	18.33	18.13	
10	16QAM	1	25	18.10	18.21	18.19	19
10	16QAM	1	49	18.17	17.88	18.16	
10	16QAM	25	0	18.02	18.07	18.25	
10	16QAM	25	12	18.09	18.14	18.18	
10	16QAM	25	25	18.12	18.12	18.23	19
10	16QAM	50	0	18.20	17.98	18.15	
10	64QAM	1	0	18.09	18.06	18.22	
10	64QAM	1	25	18.20	18.21	18.07	
10	64QAM	1	49	18.16	18.00	18.12	19
10	64QAM	25	0	18.06	18.01	18.10	
10	64QAM	25	12	17.96	18.09	18.16	
10	64QAM	25	25	18.18	18.09	18.24	
10	64QAM	50	0	18.19	18.02	18.14	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	18.95	19.14	18.98	20
5	QPSK	1	12	19.05	19.03	18.87	
5	QPSK	1	24	18.93	19.06	19.06	
5	QPSK	12	0	18.04	18.26	18.16	
5	QPSK	12	7	18.25	18.15	18.24	19
5	QPSK	12	13	18.06	18.11	18.19	
5	QPSK	25	0	18.16	18.14	18.18	
5	16QAM	1	0	18.33	18.11	18.05	
5	16QAM	1	12	18.19	18.27	18.20	19
5	16QAM	1	24	18.33	18.06	18.16	
5	16QAM	12	0	18.09	18.08	18.17	
5	16QAM	12	7	18.06	18.16	18.19	
5	16QAM	12	13	18.12	18.03	18.15	19
5	16QAM	25	0	18.15	18.10	18.04	
5	64QAM	1	0	18.34	18.01	18.06	
5	64QAM	1	12	18.20	18.31	18.35	
5	64QAM	1	24	17.88	18.11	18.10	19
5	64QAM	12	0	18.04	18.13	18.21	
5	64QAM	12	7	18.12	18.35	18.11	
5	64QAM	12	13	18.21	18.29	18.11	
5	64QAM	25	0	18.29	18.34	18.07	

Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up Limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.39	20.60	20.43	21.5
20	QPSK	1	49	20.46	20.45	20.47	
20	QPSK	1	99	20.37	20.39	20.29	
20	QPSK	50	0	19.50	19.56	19.46	
20	QPSK	50	24	19.47	19.53	19.47	20.5
20	QPSK	50	50	19.47	19.51	19.45	
20	QPSK	100	0	19.43	19.43	19.49	
20	16QAM	1	0	19.60	19.48	19.67	
20	16QAM	1	49	19.89	19.61	19.63	20.5
20	16QAM	1	99	19.63	19.58	19.50	
20	16QAM	50	0	19.53	19.55	19.42	
20	16QAM	50	24	19.59	19.54	19.58	
20	16QAM	50	50	19.56	19.51	19.52	20.5
20	16QAM	100	0	19.52	19.57	19.49	
20	64QAM	1	0	19.47	19.42	19.44	
20	64QAM	1	49	19.44	19.81	19.66	
20	64QAM	1	99	19.54	19.55	19.46	20.5
20	64QAM	50	0	19.49	19.49	19.45	
20	64QAM	50	24	19.67	19.63	19.55	
20	64QAM	50	50	19.57	19.48	19.49	
20	64QAM	100	0	19.51	19.54	19.49	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.41	20.58	20.54	21.5
15	QPSK	1	37	20.53	20.50	20.44	
15	QPSK	1	74	20.44	20.52	20.52	
15	QPSK	36	0	19.49	19.51	19.49	
15	QPSK	36	20	19.46	19.41	19.42	20.5
15	QPSK	36	39	19.51	19.55	19.58	
15	QPSK	75	0	19.43	19.50	19.44	
15	16QAM	1	0	19.45	19.43	19.48	
15	16QAM	1	37	19.63	19.41	19.53	20.5
15	16QAM	1	74	19.42	19.52	19.55	
15	16QAM	36	0	19.53	19.45	19.48	
15	16QAM	36	20	19.45	19.47	19.50	
15	16QAM	36	39	19.57	19.53	19.50	20.5
15	16QAM	75	0	19.58	19.46	19.45	
15	64QAM	1	0	19.46	19.72	19.69	
15	64QAM	1	37	19.52	19.60	19.62	
15	64QAM	1	74	19.50	19.78	19.42	20.5
15	64QAM	36	0	19.46	19.59	19.58	
15	64QAM	36	20	19.45	19.57	19.49	
15	64QAM	36	39	19.46	19.50	19.50	
15	64QAM	75	0	19.50	19.47	19.55	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.45	20.52	20.43	21.5
10	QPSK	1	25	20.51	20.45	20.49	
10	QPSK	1	49	20.51	20.43	20.40	
10	QPSK	25	0	19.44	19.51	19.44	
10	QPSK	25	12	19.49	19.48	19.44	20.5
10	QPSK	25	25	19.49	19.48	19.41	
10	QPSK	50	0	19.48	19.47	19.47	
10	16QAM	1	0	19.50	19.55	19.56	
10	16QAM	1	25	19.77	19.47	19.57	20.5
10	16QAM	1	49	19.51	19.69	19.61	
10	16QAM	25	0	19.58	19.61	19.59	
10	16QAM	25	12	19.71	19.69	19.56	
10	16QAM	25	25	19.60	19.62	19.49	20.5
10	16QAM	50	0	19.63	19.61	19.55	
10	64QAM	1	0	19.81	19.48	19.68	
10	64QAM	1	25	19.52	19.59	19.70	
10	64QAM	1	49	19.46	19.44	19.58	20.5
10	64QAM	25	0	19.58	19.54	19.48	
10	64QAM	25	12	19.51	19.68	19.60	
10	64QAM	25	25	19.57	19.64	19.60	
10	64QAM	50	0	19.46	19.46	19.49	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.39	20.49	20.45	21.5

3	16QAM	1	8	17.28	17.25	16.97	20.5
3	16QAM	1	14	16.95	16.94	16.95	
3	16QAM	8	0	16.96	17.01	16.84	
3	16QAM	8	4	16.96	16.93	16.91	20.5
3	16QAM	8	7	16.89	17.01	16.94	
3	16QAM	15	0	17.07	16.89	16.90	
3	64QAM	1	0	16.88	16.89	16.93	20.5
3	64QAM	1	8	16.91	17.16	17.17	
3	64QAM	1	14	16.89	16.89	17.12	
3	64QAM	8	0	16.92	16.99	16.93	20.5
3	64QAM	8	4	17.02	16.99	16.87	
3	64QAM	8	7	16.97	16.90	16.90	
3	64QAM	15	0	16.92	16.92	17.02	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.43	20.52	20.47	21.5
1.4	QPSK	1	3	20.46	20.51	20.51	
1.4	QPSK	1	5	20.46	20.34	20.45	
1.4	QPSK	3	0	19.43	19.51	19.42	21.5
1.4	QPSK	3	1	19.45	19.47	19.48	
1.4	QPSK	3	3	19.42	19.44	19.47	
1.4	QPSK	6	0	19.44	19.46	19.43	
1.4	16QAM	1	0	19.61	19.42	19.61	20.5
1.4	16QAM	1	3	19.66	19.52	19.68	
1.4	16QAM	1	5	19.55	19.49	19.60	
1.4	16QAM	3	0	19.65	19.68	19.48	
1.4	16QAM	3	1	19.73	19.59	19.54	20.5
1.4	16QAM	3	3	19.59	19.62	19.53	
1.4	16QAM	6	0	19.66	19.63	19.70	
1.4	64QAM	1	0	19.52	19.54	19.45	20.5
1.4	64QAM	1	3	19.82	19.44	19.49	
1.4	64QAM	1	5	19.72	19.42	19.56	
1.4	64QAM	3	0	19.76	19.74	19.81	
1.4	64QAM	3	1	19.86	19.82	19.84	20.5
1.4	64QAM	3	3	19.74	19.76	19.88	
1.4	64QAM	6	0	19.78	19.83	19.61	

## Band 7 (Reduced Power Level 4 for ANT 4)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	19.00	19.33	19.11	20
20	QPSK	1	49	19.09	19.08	19.09	
20	QPSK	1	99	19.17	19.03	19.08	
20	QPSK	50	0	18.20	18.34	18.14	19
20	QPSK	50	24	18.19	18.24	18.23	
20	QPSK	50	50	18.28	18.27	18.23	
20	QPSK	100	0	18.25	18.22	18.19	19
20	16QAM	1	0	18.21	18.32	18.30	
20	16QAM	1	49	18.33	18.21	18.14	
20	16QAM	1	99	18.37	18.18	18.27	19
20	16QAM	50	0	18.01	18.12	18.13	
20	16QAM	50	24	18.19	18.10	18.15	
20	16QAM	50	50	18.25	18.21	18.17	19
20	16QAM	100	0	18.16	18.08	18.10	
20	64QAM	1	0	18.26	18.28	18.28	
20	64QAM	1	49	18.20	18.23	18.25	19
20	64QAM	1	99	18.30	18.26	18.22	
20	64QAM	50	0	17.97	18.21	18.10	
20	64QAM	50	24	18.11	18.12	18.14	19
20	64QAM	50	50	18.18	18.15	18.14	
20	64QAM	100	0	18.09	18.15	18.10	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.10	19.18	19.09	20
15	QPSK	1	37	19.07	19.06	19.07	
15	QPSK	1	74	19.02	19.01	19.06	
15	QPSK	36	0	18.18	18.32	18.12	19
15	QPSK	36	20	18.17	18.22	18.21	
15	QPSK	36	39	18.26	18.25	18.21	
15	QPSK	75	0	18.23	18.20	18.17	19
15	16QAM	1	0	18.19	18.30	18.28	
15	16QAM	1	37	18.31	18.19	18.12	
15	16QAM	1	74	18.35	18.16	18.25	19
15	16QAM	36	0	17.99	18.10	18.11	
15	16QAM	36	20	18.17	18.08	18.13	
15	16QAM	36	39	18.23	18.19	18.15	19
15	16QAM	75	0	18.14	18.06	18.08	
15	64QAM	1	0	18.24	18.26	18.26	
15	64QAM	1	37	18.18	18.21	18.23	19
15	64QAM	1	74	18.28	18.24	18.20	
15	64QAM	36	0	17.95	18.19	18.08	
15	64QAM	36	20	18.09	18.10	18.12	19
15	64QAM	36	39	18.16	18.13	18.12	
15	64QAM	75	0	18.07	18.13	18.08	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	19.00	19.19	19.09	20
10	QPSK	1	25	19.08	19.07	19.07	
10	QPSK	1	49	19.13	19.02	19.06	
10	QPSK	25	0	18.19	18.33	18.12	19
10	QPSK	25	12	18.18	18.23	18.21	
10	QPSK	25	25	18.27	18.26	18.21	
10	QPSK	50	0	18.24	18.21	18.17	19
10	16QAM	1	0	18.20	18.31	18.28	
10	16QAM	1	25	18.32	18.20	18.12	
10	16QAM	1	49	18.36	18.17	18.25	19
10	16QAM	25	0	18.00	18.11	18.11	
10	16QAM	25	12	18.18	18.09	18.13	
10	16QAM	25	25	18.24	18.20	18.15	19
10	16QAM	50	0	18.15	18.07	18.08	
10	64QAM	1	0	18.25	18.27	18.26	
10	64QAM	1	25	18.19	18.22	18.23	19
10	64QAM	1	49	18.29	18.25	18.20	
10	64QAM	25	0	17.96	18.20	18.08	
10	64QAM	25	12	18.10	18.11	18.12	19
10	64QAM	25	25	18.17	18.14	18.12	
10	64QAM	50	0	18.08	18.14	18.08	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	19.04	19.16	19.13	20
5	QPSK	1	12	19.13	19.04	19.11	
5	QPSK	1	24	19.01	19.00	19.10	
5	QPSK	12	0	18.24	18.30	18.16	19
5	QPSK	12	7	18.23	18.20	18.25	
5	QPSK	12	13	18.32	18.23	18.25	
5	QPSK	25	0	18.29	18.18	18.21	19
5	16QAM	1	0	18.25	18.28	18.32	
5	16QAM	1	12	18.37	18.17	18.16	
5	16QAM	1	24	18.41	18.14	18.29	19
5	16QAM	12	0	18.05	18.08	18.15	
5	16QAM	12	7	18.23	18.06	18.17	
5	16QAM	12	13	18.29	18.17	18.19	19
5	16QAM	25	0	18.20	18.04	18.12	
5	64QAM	1	0	18.30	18.24	18.30	
5	64QAM	1	12	18.24	18.19	18.27	19
5	64QAM	1	24	18.34	18.22	18.24	
5	64QAM	12	0	18.01	18.17	18.12	
5	64QAM	12	7	18.15	18.08	18.16	19
5	64QAM	12	13	18.22	18.11	18.16	
5	64QAM	25	0	18.13	18.11	18.12	