



REPORT No.: SZ24090043S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.

Full Power for ANT 0 & ANT 1 & ANT 4

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	32.46	32.50	32.43	33.50	23.46	23.50	23.43	24.50	0.08
GPRS 1 Tx slot	32.48	32.51	32.43	33.50	23.48	23.51	23.43	24.50	
GPRS 2 Tx slots	29.44	29.48	29.45	30.50	23.44	23.48	23.45	24.50	0.04
GPRS 3 Tx slots	28.15	28.16	28.14	29.00	23.89	23.90	23.88	24.74	0.02
GPRS 4 Tx slots	27.05	27.17	27.16	28.00	24.05	24.17	24.16	25.00	0.12
EDGE 1 Tx slot	26.48	26.52	26.46	27.00	17.48	17.52	17.46	18.00	0.06
EDGE 2 Tx slots	23.41	23.47	23.44	24.00	17.41	17.47	17.44	18.00	0.06
EDGE 3 Tx slots	22.33	22.37	22.30	23.00	18.07	18.11	18.04	18.74	0.07
EDGE 4 Tx slots	21.23	21.26	21.20	22.00	18.23	18.26	18.20	19.00	0.06
Mode		Max.	32.51			Max.	24.17		
Attenuator	Cable Loss : 0.5								

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	29.30	29.33	29.25	30.50	20.30	20.33	20.25	21.50	0.33
GPRS 1 Tx slot	29.20	29.31	29.00	30.50	20.20	20.31	20.00	21.50	
GPRS 2 Tx slots	28.54	28.60	28.30	27.50	20.54	20.60	20.30	21.50	0.30
GPRS 3 Tx slots	25.16	25.20	25.14	26.00	20.90	20.94	20.88	21.74	0.06
GPRS 4 Tx slots	24.04	24.08	24.10	25.00	21.04	21.08	21.10	22.00	0.06
EDGE 1 Tx slot	25.40	25.47	25.43	26.50	16.40	16.47	16.43	17.50	0.07
EDGE 2 Tx slots	23.12	23.17	23.13	24.00	17.12	17.17	17.13	18.00	0.05
EDGE 3 Tx slots	22.03	22.17	22.09	23.00	17.77	17.91	17.83	18.74	0.14
EDGE 4 Tx slots	20.29	20.45	20.37	21.50	17.29	17.45	17.37	18.50	0.16
Mode		Max.	29.33			Max.	21.10		
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
TX Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.8		826.4	836.4	846.6	
3GPP Rel 99 RMC 12.2Kbps	22.80	22.88	22.85	24.00	22.92	23.00	22.96	24.00	23.34	23.40	23.37	24.50
3GPP Rel 5 HSDPA Subtest-1	22.43	22.30	22.21	24.00	22.92	22.80	22.73	24.00	23.04	23.03	22.87	24.50
3GPP Rel 5 HSDPA Subtest-2	22.36	22.26	22.20	24.00	22.91	22.95	22.70	24.00	23.00	23.02	23.00	24.50
3GPP Rel 5 HSDPA Subtest-3	22.19	22.08	22.00	23.50	22.45	22.44	22.50	23.50	22.50	22.50	22.48	24.00
3GPP Rel 5 HSDPA Subtest-4	22.16	22.05	21.99	23.50	22.42	22.44	22.19	23.50	22.49	22.49	22.46	24.00
3GPP Rel 8 DC-HSDPA Subtest-1	22.76	22.67	22.61	24.00	22.94	22.87	22.72	24.00	23.05	23.04	23.03	24.50
3GPP Rel 8 DC-HSDPA Subtest-2	22.71	22.65	22.63	24.00	22.90	22.86	22.70	24.00	22.98	22.97	23.00	24.50
3GPP Rel 8 DC-HSDPA Subtest-3	22.16	22.11	22.14	23.50	22.36	22.33	22.16	23.50	22.47	22.46	22.46	24.00
3GPP Rel 8 DC-HSDPA Subtest-4	22.16	22.09	22.11	23.50	22.36	22.32	22.14	23.50	22.43	22.44	22.45	24.00
3GPP Rel 6 HSUPA Subtest-1	22.15	22.08	21.95	23.50	22.38	22.40	22.18	23.50	22.46	22.51	22.50	23.50
3GPP Rel 6 HSUPA Subtest-2	22.68	22.58	22.50	23.50	22.91	22.83	22.67	24.00	23.00	22.98	23.06	24.50
3GPP Rel 6 HSUPA Subtest-3	21.68	21.59	21.49	22.00	21.95	21.89	21.74	22.00	22.75	23.01	22.82	24.50
3GPP Rel 6 HSUPA Subtest-4	22.67	22.56	22.50	23.50	22.91	22.84	22.67	23.50	23.00	23.04	23.03	24.50
3GPP Rel 6 HSUPA Subtest-5	21.66	21.56	21.47	22.00	21.88	21.85	21.65	22.00	22.00	21.98	22.00	23.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	21.73	21.60	21.50	22.50	21.93	21.86	21.73	22.50	21.97	21.96	22.00	23.00
Attenuator	Cable Loss			0.8	Cable Loss			0.8	Cable Loss			0.8
Mode		Max.	22.88			Max.	23.00			Max.	23.40	

Band 2 (1900MHz Band) (dBm)							
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	22.18	22.25	22.16	
20	QPSK	1	49	22.14	22.16	22.09	23.5
20	QPSK	1	99	22.06	22.13	22.10	
20	QPSK	50	0	21.28	21.35	21.30	
20	QPSK	50	24	21.24	21.18	21.16	22.5
20	QPSK	50	50	21.21	21.24	21.17	
20	QPSK	100	0	21.24	21.25	21.14	
20	16QAM	1	0	21.51	21.42	21.25	22.5
20	16QAM	1	49	21.39	21.48	21.43	
20	16QAM	1	99	21.49	21.26	21.53	
20	16QAM	50	0	20.20	20.15	20.19	21.5
20	16QAM	50	24	20.41	20.26	20.25	
20	16QAM	50	50	20.28	20.31	20.33	
20	16QAM	100	0	20.26	20.28	20.24	21.5
20	84QAM	1	0	20.36	20.50	20.45	
20	84QAM	1	49	20.39	20.43	20.33	
20	84QAM	1	99	20.49	20.37	20.19	21.5
20	84QAM	50	0	20.34	20.23	20.23	
20	84QAM	50	24	20.17	20.18	20.25	
20	84QAM	50	50	20.30	20.23	20.28	21.5
20	84QAM	100	0	20.22	20.25	20.24	
Channel				1867.5	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	23.5
15	QPSK	1	0	22.05	22.07	22.10	
15	QPSK	1	37	21.93	21.95	21.88	
15	QPSK	1	74	21.85	21.92	21.89	22.5
15	QPSK	36	0	21.21	21.28	21.23	
15	QPSK	36	20	21.17	21.11	21.09	
15	QPSK	36	39	21.14	21.17	21.10	22.5
15	QPSK	75	0	21.17	21.18	21.07	
15	16QAM	1	0	21.44	21.35	21.18	
15	16QAM	1	37	21.32	21.41	21.36	21.5
15	16QAM	1	74	21.42	21.19	21.46	
15	16QAM	36	0	20.13	20.08	20.12	
15	16QAM	36	20	20.34	20.19	20.18	21.5
15	16QAM	36	39	20.21	20.24	20.26	
15	16QAM	75	0	20.19	20.21	20.17	
15	64QAM	1	0	20.29	20.43	20.38	21.5
15	64QAM	1	37	20.32	20.36	20.26	
15	64QAM	1	74	20.42	20.30	20.12	
15	64QAM	36	0	20.27	20.16	20.16	21.5
15	64QAM	36	20	20.10	20.11	20.18	
15	64QAM	36	39	20.23	20.16	20.21	
15	64QAM	75	0	20.15	20.18	20.17	23
Channel				18550	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.96	22.00	22.03	22.5
10	QPSK	1	25	21.86	21.88	21.81	
10	QPSK	1	49	21.78	21.85	21.82	
10	QPSK	25	0	21.14	21.21	21.16	22.5
10	QPSK	25	12	21.10	21.04	21.02	
10	QPSK	25	25	21.07	21.10	21.03	
10	QPSK	50	0	21.10	21.11	21.00	22.5
10	16QAM	1	0	21.37	21.28	21.11	
10	16QAM	1	25	21.25	21.34	21.29	
10	16QAM	1	49	21.35	21.12	21.39	22.5
10	16QAM	25	0	20.06	20.01	20.05	
10	16QAM	25	12	20.27	20.12	20.11	
10	16QAM	25	25	20.14	20.17	20.19	21.5
10	16QAM	50	0	20.12	20.14	20.10	
10	64QAM	1	0	20.22	20.36	20.31	
10	64QAM	1	25	20.25	20.29	20.19	21.5
10	64QAM	1	49	20.35	20.23	20.05	
10	64QAM	25	0	20.20	20.09	20.09	
10	64QAM	25	12	20.03	20.04	20.11	21.5
10	64QAM	25	25	20.16	20.09	20.14	
10	64QAM	50	0	20.08	20.11	20.10	
Channel				1852.5	1880	1907.5	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	23
5	QPSK	1	0	21.91	21.93	21.96	
5	QPSK	1	12	21.79	21.81	21.74	
5	QPSK	1	24	21.71	21.78	21.75	22.5
5	QPSK	12	0	21.07	21.14	21.09	
5	QPSK	12	7	21.03	20.97	20.95	
5	QPSK	12	13	21.00	21.03	20.96	22.5
5	QPSK	25	0	21.03	21.04	20.93	
5	16QAM	1	0	21.30	21.21	21.04	
5	16QAM	1	12	21.18	21.27	21.22	21.5
5	16QAM	1	24	21.28	21.05	21.32	
5	16QAM	12	0	20.05	20.00	20.04	
5	16QAM	12	7	20.26	20.11	20.10	21.5
5	16QAM	12	13	20.13	20.16	20.18	
5	16QAM	25	0	20.11	20.13	20.09	
5	64QAM	1	0	20.15	20.29	20.24	21.5
5	64QAM	1	12	20.18	20.22	20.12	
5	64QAM	1	24	20.28	20.16	20.14	
5	64QAM	12	0	20.19	20.08	20.08	21.5
5	64QAM	12	7	20.02	20.03	20.10	
5	64QAM	12	13	20.15	20.08	20.13	
5	64QAM	25	0	20.07	20.10	20.09	21.5
Channel				18515	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	23
3	QPSK	1	0	21.84	21.86	21.89	
3	QPSK	1	8	21.72	21.74	21.67	
3	QPSK	1	14	21.64	21.71	21.68	22
3	QPSK	8	0	21.00	21.07	21.02	
3	QPSK	8	4	20.96	20.90	20.88	
3	QPSK	8	7	20.93	20.96	20.89	22
3	QPSK	15	0	20.96	20.97	20.86	
3	16QAM	1	0	21.13	21.14	20.97	
3	16QAM	1	8	21.11	21.11	21.15	21
3	16QAM	1	14	21.13	21.11	21.14	
3	16QAM	8	0	19.92	19.87	19.91	
3	16QAM	8	4	20.13	19.98	19.97	21
3	16QAM	8	7	20.00	20.03	20.05	
3	16QAM	15	0	19.98	20.00	19.96	
3	64QAM	1	0	20.08	20.22	20.17	21
3	64QAM	1	8	20.11	20.15	20.05	
3	64QAM	1	14	20.21	20.09	19.91	
3	64QAM	8	0	20.06	19.95	19.95	20
3	64QAM	8	4	19.89	19.90	19.97	
3	64QAM	8	7	20.02	19.95	20.00	
3	64QAM	15	0	19.94	19.97	19.96	20
Channel				18507	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	Tune-up limit (dBm)

Band 4 (AWS Band) (dBm)							
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	22.20	22.18	22.14	
20	QPSK	1	49	22.16	22.17	22.18	23.5
20	QPSK	1	99	22.08	22.10	22.13	
20	QPSK	50	0	21.39	21.46	21.50	
20	QPSK	50	24	21.20	21.23	21.24	22.5
20	QPSK	50	50	21.17	21.20	21.26	
20	QPSK	100	0	21.14	21.23	21.18	
20	16QAM	1	0	20.87	21.12	21.18	22.5
20	16QAM	1	49	21.12	21.18	21.03	
20	16QAM	1	99	21.19	21.18	21.29	
20	16QAM	50	0	20.25	20.21	20.26	21.5
20	16QAM	50	24	20.28	20.17	20.21	
20	16QAM	50	50	20.33	20.19	20.20	
20	16QAM	100	0	20.25	20.24	20.22	21.5
20	84QAM	1	0	20.37	20.31	20.35	
20	84QAM	1	49	20.17	20.19	20.35	
20	84QAM	1	99	20.27	20.28	20.39	21.5
20	84QAM	50	0	20.19	20.16	20.17	
20	84QAM	50	24	20.18	20.20	20.33	
20	84QAM	50	50	20.22	20.19	20.37	21.5
20	84QAM	100	0	20.20	20.17	20.28	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	23.5
15	QPSK	1	0	22.26	22.29	22.25	
15	QPSK	1	37	22.10	22.11	22.12	
15	QPSK	1	74	22.02	22.04	22.07	22.5
15	QPSK	36	0	21.33	21.40	21.44	
15	QPSK	36	20	21.14	21.17	21.18	
15	QPSK	36	39	21.11	21.14	21.20	22.5
15	QPSK	75	0	21.08	21.17	21.12	
15	16QAM	1	0	20.81	21.06	21.12	
15	16QAM	1	37	21.06	21.12	20.97	22.5
15	16QAM	1	74	21.13	21.12	21.23	
15	16QAM	36	0	20.19	20.15	20.20	
15	16QAM	36	20	20.22	20.11	20.15	21.5
15	16QAM	36	39	20.27	20.13	20.14	
15	16QAM	75	0	20.19	20.18	20.16	
15	64QAM	1	0	20.31	20.25	20.29	21.5
15	64QAM	1	37	20.11	20.13	20.29	
15	64QAM	1	74	20.21	20.22	20.33	
15	64QAM	36	0	20.13	20.10	20.11	21.5
15	64QAM	36	20	20.12	20.14	20.27	
15	64QAM	36	39	20.16	20.13	20.31	
15	64QAM	75	0	20.14	20.11	20.22	Tune-up limit (dBm)
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	23.5
10	QPSK	1	0	22.22	22.25	22.21	
10	QPSK	1	25	22.06	22.07	22.08	
10	QPSK	1	49	21.98	22.00	22.03	22.5
10	QPSK	25	0	21.29	21.36	21.40	
10	QPSK	25	12	21.10	21.13	21.14	
10	QPSK	25	25	21.07	21.10	21.16	22.5
10	QPSK	50	0	21.04	21.13	21.08	
10	16QAM	1	0	21.07	21.02	21.08	
10	16QAM	1	25	21.02	21.08	20.93	21.5
10	16QAM	1	49	21.09	21.08	21.19	
10	16QAM	25	0	20.15	20.11	20.16	
10	16QAM	25	12	20.18	20.07	20.11	21.5
10	16QAM	25	25	20.23	20.09	20.10	
10	16QAM	50	0	20.15	20.14	20.12	
10	64QAM	1	0	20.27	20.21	20.25	21.5
10	64QAM	1	25	20.07	20.09	20.25	
10	64QAM	1	49	20.17	20.18	20.29	
10	64QAM	25	0	20.09	20.06	20.07	21.5
10	64QAM	25	12	20.08	20.10	20.23	
10	64QAM	25	25	20.12	20.09	20.27	
10	64QAM	50	0	20.10	20.07	20.18	Tune-up limit (dBm)
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	23.5
5	QPSK	1	0	22.17	22.20	22.16	
5	QPSK	1	12	22.01	22.02	22.03	
5	QPSK	1	24	21.93	21.95	21.98	22.5
5	QPSK	12	0	21.24	21.31	21.35	
5	QPSK	12	7	21.05	21.08	21.09	
5	QPSK	12	13	21.02	21.05	21.11	22.5
5	QPSK	25	0	20.99	21.08	21.03	
5	16QAM	1	0	20.72	20.97	21.03	
5	16QAM	1	12	20.97	21.03	20.88	21.5
5	16QAM	1	24	21.04	21.03	21.14	
5	16QAM	12	0	20.10	20.06	20.11	
5	16QAM	12	7	20.13	20.02	20.06	21.5
5	16QAM	12	13	20.18	20.04	20.05	
5	16QAM	25	0	20.10	20.09	20.07	
5	64QAM	1	0	20.22	20.16	20.20	21.5
5	64QAM	1	12	20.02	20.04	20.20	
5	64QAM	1	24	20.12	20.13	20.24	
5	64QAM	12	0	20.04	20.01	20.02	21.5
5	64QAM	12	7	20.03	20.05	20.18	
5	64QAM	12	13	20.07	20.04	20.22	
5	64QAM	25	0	20.05	20.02	20.13	Tune-up limit (dBm)
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	23.5
3	QPSK	1	0	22.12	22.15	22.11	
3	QPSK	1	8	21.96	21.97	21.98	
3	QPSK	1	14	21.88	21.90	21.93	22.5
3	QPSK	8	0	21.19	21.26	21.30	
3	QPSK	8	4	21.00	21.03	21.04	
3	QPSK	8	7	20.97	21.00	21.06	22
3	QPSK	15	0	20.94	21.03	20.98	
3	16QAM	1	0	20.67	20.92	20.98	
3	16QAM	1	8	20.92	20.98	20.83	21.5
3	16QAM	1	14	20.99	20.98	21.00	
3	16QAM	8	0	20.05	20.01	20.06	
3	16QAM	8	4	20.08	19.97	20.01	21.5
3	16QAM	8	7	20.13	19.99	20.00	
3	16QAM	15	0	20.05	20.04	20.02	
3	64QAM	1	0	20.17	20.11	20.15	21.5
3	64QAM	1	8	19.97	19.99	20.15	
3	64QAM	1	14	20.07	20.08	20.19	
3	64QAM	8	0	19.99	19.96	19.97	21.5
3	64QAM	8	4	19.98	20.00	20.13	
3	64QAM	8	7	20.02	19.99	20.17	
3	64QAM	15	0	20.00	19.97	20.08	Tune-up limit (dBm)
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	

1.4	QPSK	1	0	21.77	21.79	21.82	23
1.4	QPSK	1	3	21.65	21.67	21.60	
1.4	QPSK	1	5	21.57	21.64	21.61	
1.4	QPSK	3	0	20.93	21.00	20.95	
1.4	QPSK	3	1	20.89	20.83	20.81	
1.4	QPSK	3	3	20.86	20.89	20.82	
1.4	QPSK	6	0	20.89	20.90	20.79	22
1.4	16QAM	1	0	21.16	21.07	20.90	22
1.4	16QAM	1	3	21.04	21.13	21.08	
1.4	16QAM	1	5	21.06	20.91	21.05	
1.4	16QAM	3	0	19.85	19.80	19.84	
1.4	16QAM	3	1	20.06	19.91	19.90	
1.4	16QAM	3	3	19.93	19.96	19.98	
1.4	16QAM	6	0	19.91	19.93	19.89	21
1.4	64QAM	1	0	20.01	20.15	20.10	21
1.4	64QAM	1	3	20.04	20.08	19.98	
1.4	64QAM	1	5	20.14	20.02	19.84	
1.4	64QAM	3	0	19.99	19.88	19.88	
1.4	64QAM	3	1	19.82	19.83	19.90	
1.4	64QAM	3	3	19.95	19.88	19.93	
1.4	64QAM	6	0	19.87	19.90	19.89	21

1.4	QPSK	1	0	22.07	22.10	22.06	23.5
1.4	QPSK	1	3	21.91	21.92	21.93	
1.4	QPSK	1	5	21.83	21.85	21.88	
1.4	QPSK	3	0	21.14	21.21	21.25	
1.4	QPSK	3	1	20.95	20.98	20.99	
1.4	QPSK	3	3	20.92	20.95	21.01	
1.4	QPSK	6	0	20.89	20.98	20.93	22
1.4	16QAM	1	0	20.62	20.87	20.93	22
1.4	16QAM	1	3	20.87	20.93	20.78	
1.4	16QAM	1	5	20.94	20.93	21.04	
1.4	16QAM	3	0	20.00	19.96	20.01	
1.4	16QAM	3	1	20.03	19.92	19.96	
1.4	16QAM	3	3	20.08	19.94	19.95	
1.4	16QAM	6	0	20.00	19.99	19.97	21
1.4	64QAM	1	0	20.12	20.06	20.10	21.5
1.4	64QAM	1	3	19.92	19.94	20.10	
1.4	64QAM	1	5	20.02	20.03	20.14	
1.4	64QAM	3	0	19.94	19.91	19.92	
1.4	64QAM	3	1	19.93	19.95	20.08	
1.4	64QAM	3	3	19.97	19.94	20.12	
1.4	64QAM	6	0	19.95	19.92	20.03	21

Band 5 (Celluar Band) (dBm) 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	23.56	23.61	23.60	24.5
10	QPSK	1	25	23.52	23.53	23.54	
10	QPSK	1	49	23.44	23.46	23.49	
10	QPSK	25	0	22.82	22.83	22.87	24
10	QPSK	25	12	22.74	22.77	22.78	
10	QPSK	25	25	22.71	22.74	22.80	
10	QPSK	50	0	22.68	22.77	22.72	24
10	16QAM	1	0	22.41	22.66	22.72	
10	16QAM	1	25	22.66	22.72	22.57	
10	16QAM	1	49	22.73	22.72	22.83	23
10	16QAM	25	0	21.79	21.75	21.80	
10	16QAM	25	12	21.82	21.71	21.75	
10	16QAM	25	25	21.87	21.73	21.74	23
10	16QAM	50	0	21.79	21.78	21.76	
10	64QAM	1	0	21.91	21.85	21.89	
10	64QAM	1	25	21.71	21.73	21.89	23
10	64QAM	1	49	21.81	21.82	21.93	
10	64QAM	25	0	21.73	21.70	21.71	
10	64QAM	25	12	21.72	21.74	21.87	23
10	64QAM	25	25	21.76	21.73	21.91	
10	64QAM	50	0	21.74	21.71	21.82	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				836.5	836.5	846.5	
5	QPSK	1	0	23.40	23.36	23.38	24.5
5	QPSK	1	12	23.34	23.35	23.36	
5	QPSK	1	24	23.26	23.28	23.31	
5	QPSK	12	0	22.64	22.65	22.69	24
5	QPSK	12	7	22.56	22.59	22.60	
5	QPSK	12	13	22.53	22.56	22.62	
5	QPSK	25	0	22.50	22.59	22.54	24
5	16QAM	1	0	22.23	22.48	22.54	
5	16QAM	1	12	22.48	22.54	22.39	
5	16QAM	1	24	22.55	22.54	22.65	23
5	16QAM	12	0	21.61	21.57	21.62	
5	16QAM	12	7	21.64	21.53	21.57	
5	16QAM	12	13	21.69	21.55	21.56	23
5	16QAM	25	0	21.61	21.60	21.58	
5	64QAM	1	0	21.73	21.67	21.71	
5	64QAM	1	12	21.53	21.55	21.71	23
5	64QAM	1	24	21.63	21.64	21.75	
5	64QAM	12	0	21.55	21.52	21.53	
5	64QAM	12	7	21.54	21.56	21.69	23
5	64QAM	12	13	21.58	21.55	21.73	
5	64QAM	25	0	21.56	21.53	21.64	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.33	23.29	23.31	24.5
3	QPSK	1	8	23.27	23.28	23.29	
3	QPSK	1	14	23.19	23.21	23.24	
3	QPSK	8	0	22.57	22.58	22.62	23.5
3	QPSK	8	4	22.49	22.52	22.53	
3	QPSK	8	7	22.46	22.49	22.55	
3	QPSK	15	0	22.43	22.52	22.47	23.5
3	16QAM	1	0	22.16	22.41	22.47	
3	16QAM	1	8	22.41	22.47	22.32	
3	16QAM	1	14	22.48	22.47	22.58	23
3	16QAM	8	0	21.54	21.50	21.55	
3	16QAM	8	4	21.57	21.46	21.50	
3	16QAM	8	7	21.62	21.48	21.49	23
3	16QAM	15	0	21.54	21.53	21.51	
3	64QAM	1	0	21.66	21.60	21.64	
3	64QAM	1	8	21.46	21.48	21.64	23
3	64QAM	1	14	21.56	21.57	21.68	
3	64QAM	8	0	21.48	21.45	21.46	
3	64QAM	8	4	21.47	21.49	21.62	23
3	64QAM	8	7	21.51	21.48	21.66	
3	64QAM	15	0	21.49	21.46	21.57	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.26	23.22	23.24	24.5
1.4	QPSK	1	3	23.20	23.21	23.22	
1.4	QPSK	1	5	23.12	23.14	23.17	
1.4	QPSK	3	0	22.50	22.51	22.55	23.5
1.4	QPSK	3	1	22.42	22.45	22.46	
1.4	QPSK	3	3	22.39	22.42	22.48	
1.4	QPSK	6	0	22.36	22.45	22.40	23.5
1.4	16QAM	1	0	22.09	22.34	22.40	
1.4	16QAM	1	3	22.34	22.40	22.25	
1.4	16QAM	1	5	22.41	22.40	22.43	23.5
1.4	16QAM	3	0	21.47	21.43	21.48	
1.4	16QAM	3	1	21.50	21.39	21.43	
1.4	16QAM	3	3	21.55	21.41	21.42	22.5
1.4	16QAM	6	0	21.47	21.46	21.44	
1.4	64QAM	1	0	21.59	21.53	21.57	
1.4	64QAM	1	3	21.39	21.41	21.57	22.5
1.4	64QAM	1	5	21.49	21.50	21.61	
1.4	64QAM	3	0	21.41	21.38	21.39	
1.4	64QAM	3	1	21.40	21.42	21.55	22.5
1.4	64QAM	3	3	21.44	21.41	21.59	
1.4	64QAM	6	0	21.42	21.39	21.50	

Band 7 (2600MHz Band) (dBm)							
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	22.33	22.24	22.26	23.5
20	QPSK	1	49	22.21	22.22	22.23	
20	QPSK	1	99	22.13	22.15	22.18	
20	QPSK	50	0	21.35	21.26	21.34	22.5
20	QPSK	50	24	21.29	21.32	21.33	
20	QPSK	50	50	21.26	21.29	21.35	
20	QPSK	100	0	21.23	21.32	21.27	22.5
20	16QAM	1	0	20.96	21.21	21.27	
20	16QAM	1	49	21.21	21.27	21.12	
20	16QAM	1	99	21.28	21.27	21.38	21.5
20	16QAM	50	0	20.34	20.30	20.35	
20	16QAM	50	24	20.37	20.26	20.30	
20	16QAM	50	50	20.42	20.28	20.29	21.5
20	16QAM	100	0	20.34	20.33	20.31	
20	64QAM	1	0	20.46	20.40	20.44	
20	64QAM	1	49	20.26	20.28	20.44	21.5
20	64QAM	1	99	20.36	20.37	20.48	
20	64QAM	50	0	20.28	20.25	20.26	
20	64QAM	50	24	20.27	20.29	20.42	21.5
20	64QAM	50	50	20.31	20.28	20.46	
20	64QAM	100	0	20.29	20.26	20.37	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.10	22.12	22.07	23.5
15	QPSK	1	37	22.05	22.06	22.07	
15	QPSK	1	74	21.97	21.99	22.02	
15	QPSK	36	0	21.19	21.10	21.18	22.5
15	QPSK	36	20	21.13	21.16	21.17	
15	QPSK	36	39	21.10	21.13	21.19	
15	QPSK	75	0	21.07	21.16	21.11	22.5
15	16QAM	1	0	20.80	21.05	21.11	
15	16QAM	1	37	21.05	21.11	20.96	
15	16QAM	1	74	21.12	21.11	21.22	21.5
15	16QAM	36	0	20.18	20.14	20.19	
15	16QAM	36	20	20.21	20.10	20.14	
15	16QAM	36	39	20.26	20.12	20.13	21.5
15	16QAM	75	0	20.18	20.17	20.15	
15	64QAM	1	0	20.30	20.24	20.28	
15	64QAM	1	37	20.10	20.12	20.28	21.5
15	64QAM	1	74	20.20	20.21	20.32	
15	64QAM	36	0	20.12	20.09	20.10	
15	64QAM	36	20	20.11	20.13	20.26	21.5
15	64QAM	36	39	20.15	20.12	20.30	
15	64QAM	75	0	20.13	20.10	20.21	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.04	22.06	22.01	23
10	QPSK	1	25	21.99	22.00	22.01	
10	QPSK	1	49	21.91	21.93	21.96	
10	QPSK	25	0	21.13	21.04	21.12	22.5
10	QPSK	25	12	21.07	21.10	21.11	
10	QPSK	25	25	21.04	21.07	21.13	
10	QPSK	50	0	21.01	21.10	21.05	22.5
10	16QAM	1	0	20.96	20.99	21.05	
10	16QAM	1	25	20.99	21.05	20.90	
10	16QAM	1	49	21.06	21.05	21.16	21.5
10	16QAM	25	0	20.12	20.08	20.13	
10	16QAM	25	12	20.15	20.04	20.08	
10	16QAM	25	25	20.20	20.06	20.07	21.5
10	16QAM	50	0	20.12	20.11	20.09	
10	64QAM	1	0	20.24	20.18	20.22	
10	64QAM	1	25	20.04	20.06	20.22	21.5
10	64QAM	1	49	20.14	20.15	20.26	
10	64QAM	25	0	20.06	20.03	20.04	
10	64QAM	25	12	20.05	20.07	20.20	21.5
10	64QAM	25	25	20.09	20.06	20.24	
10	64QAM	50	0	20.07	20.04	20.15	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	21.98	22.00	21.95	23
5	QPSK	1	12	21.93	21.94	21.95	
5	QPSK	1	24	21.85	21.87	21.90	
5	QPSK	12	0	21.07	20.98	21.06	22
5	QPSK	12	7	21.01	21.04	21.05	
5	QPSK	12	13	20.98	21.01	21.07	
5	QPSK	25	0	20.95	21.04	20.99	22
5	16QAM	1	0	20.76	20.93	20.99	
5	16QAM	1	12	20.93	20.99	20.84	
5	16QAM	1	24	21.00	20.99	21.10	21.5
5	16QAM	12	0	20.06	20.02	20.07	
5	16QAM	12	7	20.09	19.98	20.02	
5	16QAM	12	13	20.14	20.00	20.01	21.5
5	16QAM	25	0	20.06	20.05	20.03	
5	64QAM	1	0	20.18	20.12	20.16	
5	64QAM	1	12	19.98	20.00	20.16	21.5
5	64QAM	1	24	20.08	20.09	20.20	
5	64QAM	12	0	20.00	19.97	19.98	
5	64QAM	12	7	19.99	20.01	20.14	21.5
5	64QAM	12	13	20.03	20.00	20.18	
5	64QAM	25	0	20.01	19.98	20.09	

Band 13(700MHz Band) (dBm) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.32		24.5
10	QPSK	1	25		23.26		
10	QPSK	1	49		23.23		
10	QPSK	25	0		22.26		23.5
10	QPSK	25	12		22.19		
10	QPSK	25	25		22.20		
10	QPSK	50	0		22.21		23.5
10	16QAM	1	0		22.36		
10	16QAM	1	25		22.33		
10	16QAM	1	49		22.44		22.5
10	16QAM	25	0		21.30		
10	16QAM	25	12		21.30		
10	16QAM	25	25		21.22		22.5
10	16QAM	50	0		21.26		
10	64QAM	1	0		21.38		
10	64QAM	1	25		21.47		22.5
10	64QAM	1	49		21.41		
10	64QAM	25	0		21.28		
10	64QAM	25	12		21.25		22.5
10	64QAM	25	25		21.29		
10	64QAM	50	0		21.20		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.34	22.27	22.23	23.5
5	QPSK	1	12	22.24	22.20	22.26	
5	QPSK	1	24	22.11	22.08	22.17	
5	QPSK	12	0	21.34	21.30	21.31	22.5
5	QPSK	12	7	21.29	21.26	21.29	
5	QPSK	12	13	21.28	21.26	21.20	
5	QPSK	25	0	21.20	21.26	21.20	22.5
5	16QAM	1	0	21.43	21.44	21.43	
5	16QAM	1	12	21.34	21.40	21.34	
5	16QAM	1	24	21.47	21.44	21.45	21.5
5	16QAM	12	0	20.34	20.35	20.37	
5	16QAM	12	7	20.30	20.31	20.33	
5	16QAM	12	13	20.23	20.26	20.29	21.5
5	16QAM	25	0	20.32	20.25	20.32	
5	64QAM	1	0	20.45	20.39	20.45	
5	64QAM	1	12	20.47	20.52	20.54	21.5
5	64QAM	1	24	20.40	20.43	20.40	
5	64QAM	12	0	20.36	20.36	20.27	
5	64QAM	12	7	20.29	20.24	20.31	21.5
5	64QAM	12	13	20.36	20.34	20.31	
5	64QAM	25	0	20.23	20.26	20.25	

Band 26 for FCC (dBm) (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	23.14	23.19	23.22	24.5
15	QPSK	1	37	23.09	23.03	23.10	
15	QPSK	1	74	23.08	23.10	22.77	
15	QPSK	36	0	22.52	22.56	22.58	23.5
15	QPSK	36	20	22.47	22.51	22.37	
15	QPSK	36	39	22.52	22.53	22.47	
15	QPSK	75	0	22.49	22.43	22.40	23.5
15	16QAM	1	0	22.51	22.35	22.49	
15	16QAM	1	37	22.35	22.38	22.36	
15	16QAM	1	74	22.22	22.32	22.27	22.5
15	16QAM	36	0	21.48	21.49	21.42	
15	16QAM	36	20	21.21	21.42	21.41	
15	16QAM	36	39	21.47	21.50	21.48	22.5
15	16QAM	75	0	21.53	21.52	21.46	
15	64QAM	1	0	21.38	21.50	21.51	
15	64QAM	1	37	21.54	21.50	21.47	22.5
15	64QAM	1	74	21.37	21.35	21.23	
15	64QAM	36	0	21.51	21.41	21.45	
15	64QAM	36	20	21.42	21.44	21.33	22.5
15	64QAM	36	39	21.46	21.48	21.44	
15	64QAM	75	0	21.42	21.52	21.37	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.17	23.13	23.18	24.5
10	QPSK	1	25	23.02	22.96	23.03	
10	QPSK	1	49	23.01	23.03	22.70	
10	QPSK	25	0	22.45	22.49	22.51	23.5
10	QPSK	25	12	22.40	22.44	22.30	
10	QPSK	25	25	22.45	22.46	22.40	
10	QPSK	50	0	22.42	22.36	22.33	23.5
10	16QAM	1	0	22.44	22.28	22.42	
10	16QAM	1	25	22.28	22.31	22.29	
10	16QAM	1	49	22.15	22.25	22.20	22.5
10	16QAM	25	0	21.41	21.42	21.35	
10	16QAM	25	12	21.14	21.35	21.34	
10	16QAM	25	25	21.40	21.43	21.41	22.5
10	16QAM	50	0	21.46	21.45	21.39	
10	64QAM	1	0	21.31	21.43	21.44	
10	64QAM	1	25	21.47	21.43	21.40	22.5
10	64QAM	1	49	21.30	21.28	21.16	
10	64QAM	25	0	21.44	21.34	21.38	
10	64QAM	25	12	21.35	21.37	21.26	22.5
10	64QAM	25	25	21.39	21.41	21.37	
10	64QAM	50	0	21.35	21.45	21.30	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.10	23.06	23.11	24.5
5	QPSK	1	12	22.95	22.89	22.96	
5	QPSK	1	24	22.94	22.96	22.63	
5	QPSK	12	0	22.38	22.42	22.44	23.5
5	QPSK	12	7	22.33	22.37	22.23	
5	QPSK	12	13	22.38	22.39	22.33	
5	QPSK	25	0	22.35	22.29	22.26	23.5
5	16QAM	1	0	22.37	22.21	22.35	
5	16QAM	1	12	22.21	22.24	22.22	
5	16QAM	1	24	22.08	22.18	22.13	22.5
5	16QAM	12	0	21.34	21.35	21.28	
5	16QAM	12	7	21.07	21.28	21.27	
5	16QAM	12	13	21.33	21.36	21.34	22.5
5	16QAM	25	0	21.39	21.38	21.32	
5	64QAM	1	0	21.24	21.36	21.37	
5	64QAM	1	12	21.40	21.36	21.33	22.5
5	64QAM	1	24	21.23	21.21	21.09	
5	64QAM	12	0	21.37	21.27	21.31	
5	64QAM	12	7	21.28	21.30	21.19	22.5
5	64QAM	12	13	21.32	21.34	21.30	
5	64QAM	25	0	21.28	21.38	21.23	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.03	22.99	23.04	24
3	QPSK	1	8	22.88	22.82	22.89	
3	QPSK	1	14	22.87	22.89	22.56	
3	QPSK	8	0	22.31	22.35	22.37	23.5
3	QPSK	8	4	22.26	22.30	22.16	
3	QPSK	8	7	22.31	22.32	22.26	
3	QPSK	15	0	22.28	22.22	22.19	23.5
3	16QAM	1	0	22.30	22.14	22.28	
3	16QAM	1	8	22.14	22.17	22.15	
3	16QAM	1	14	22.01	22.11	22.06	22.5
3	16QAM	8	0	21.27	21.28	21.21	
3	16QAM	8	4	21.00	21.21	21.20	
3	16QAM	8	7	21.26	21.29	21.27	22.5
3	16QAM	15	0	21.32	21.31	21.25	
3	64QAM	1	0	21.17	21.29	21.30	
3	64QAM	1	8	21.33	21.29	21.26	22.5
3	64QAM	1	14	21.16	21.14	21.02	
3	64QAM	8	0	21.30	21.20	21.24	
3	64QAM	8	4	21.21	21.23	21.12	22.5
3	64QAM	8	7	21.25	21.27	21.23	
3	64QAM	15	0	21.21	21.31	21.16	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.96	22.92	22.97	24
1.4	QPSK	1	3	22.81	22.75	22.82	
1.4	QPSK	1	5	22.80	22.82	22.49	
1.4	QPSK	3	0	22.24	22.28	22.30	23.5
1.4	QPSK	3	1	22.19	22.23	22.09	
1.4	QPSK	3	3	22.24	22.25	22.19	
1.4	QPSK	6	0	22.21	22.15	22.12	23.5
1.4	16QAM	1	0	22.23	22.07	22.21	
1.4	16QAM	1	3	22.07	22.10	22.08	
1.4	16QAM	1	5	21.94	22.04	21.99	22.5
1.4	16QAM	3	0	21.20	21.21	21.14	
1.4	16QAM	3	1	20.93	21.14	21.13	
1.4	16QAM	3	3	21.19	21.22	21.20	22.5
1.4	16QAM	6	0	21.25	21.24	21.18	
1.4	64QAM	1	0	21.10	21.22	21.23	
1.4	64QAM	1	3	21.26	21.22	21.19	22.5
1.4	64QAM	3	0	21.23	21.13	21.17	
1.4	64QAM	3	1	21.14	21.16	21.05	
1.4	64QAM	3	3	21.18	21.20	21.16	22.5
1.4	64QAM	6	0	21.14	21.24	21.09	

Band 66 (dBm)							
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	22.75	22.76	22.74	
20	QPSK	1	49	22.56	22.68	22.53	24
20	QPSK	1	99	22.64	22.64	22.61	
20	QPSK	50	0	22.30	22.35	22.23	
20	QPSK	50	24	22.11	22.19	22.18	24
20	QPSK	50	50	22.20	22.15	22.17	
20	QPSK	100	0	22.16	22.21	22.18	
20	16QAM	1	0	22.46	22.41	22.43	23.5
20	16QAM	1	49	22.33	22.42	22.19	
20	16QAM	1	99	22.27	22.34	22.42	
20	16QAM	50	0	21.13	21.06	21.05	22.5
20	16QAM	50	24	21.25	21.20	21.08	
20	16QAM	50	50	21.18	21.17	21.14	
20	16QAM	100	0	21.19	21.16	21.06	22.5
20	64QAM	1	0	21.42	21.39	21.40	
20	64QAM	1	49	21.30	21.40	21.14	
20	64QAM	1	99	21.21	21.34	21.35	22.5
20	64QAM	50	0	21.10	21.05	21.05	
20	64QAM	50	24	21.17	21.15	21.07	
20	64QAM	50	50	21.10	21.11	21.11	22.5
20	64QAM	100	0	21.21	21.10	20.99	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	24
15	QPSK	1	0	22.63	22.62	22.60	
15	QPSK	1	37	22.49	22.61	22.46	
15	QPSK	1	74	22.57	22.57	22.54	24
15	QPSK	36	0	22.23	22.28	22.16	
15	QPSK	36	20	22.04	22.12	22.11	
15	QPSK	36	39	22.13	22.08	22.10	23.5
15	QPSK	75	0	22.09	22.14	22.11	
15	16QAM	1	0	22.39	22.34	22.36	
15	16QAM	1	37	22.26	22.35	22.12	22.5
15	16QAM	1	74	22.20	22.27	22.35	
15	16QAM	36	0	21.06	20.99	20.98	
15	16QAM	36	20	21.18	21.13	21.01	22.5
15	16QAM	36	39	21.11	21.10	21.07	
15	16QAM	75	0	21.12	21.09	20.99	
15	64QAM	1	0	21.35	21.32	21.33	22.5
15	64QAM	1	37	21.23	21.33	21.07	
15	64QAM	1	74	21.14	21.27	21.28	
15	64QAM	36	0	21.03	20.98	20.98	22.5
15	64QAM	36	20	21.10	21.08	21.00	
15	64QAM	36	39	21.03	21.04	21.04	
15	64QAM	75	0	21.14	21.03	20.92	24
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	24
10	QPSK	1	0	22.56	22.55	22.53	
10	QPSK	1	25	22.42	22.54	22.39	
10	QPSK	1	49	22.50	22.50	22.47	23.5
10	QPSK	25	0	22.16	22.21	22.09	
10	QPSK	25	12	22.00	22.05	22.04	
10	QPSK	25	25	22.06	22.01	22.03	23.5
10	QPSK	50	0	22.02	22.07	22.04	
10	16QAM	1	0	22.32	22.27	22.29	
10	16QAM	1	25	22.19	22.28	22.05	22.5
10	16QAM	1	49	22.13	22.20	22.28	
10	16QAM	25	0	20.99	20.92	20.91	
10	16QAM	25	12	21.11	21.06	20.94	22.5
10	16QAM	25	25	21.04	21.03	21.00	
10	16QAM	50	0	21.05	21.02	20.92	
10	64QAM	1	0	21.28	21.25	21.26	22
10	64QAM	1	25	21.16	21.26	21.00	
10	64QAM	1	49	21.07	21.20	21.21	
10	64QAM	25	0	20.96	20.91	20.91	22
10	64QAM	25	12	21.03	21.01	20.93	
10	64QAM	25	25	20.96	20.97	20.97	
10	64QAM	50	0	21.07	20.96	20.85	24
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	24
5	QPSK	1	0	22.49	22.48	22.46	
5	QPSK	1	12	22.35	22.47	22.32	
5	QPSK	1	24	22.43	22.43	22.40	23.5
5	QPSK	12	0	22.09	22.14	22.02	
5	QPSK	12	7	21.90	21.98	21.97	
5	QPSK	12	13	21.99	21.94	21.96	23.5
5	QPSK	25	0	21.95	22.00	21.97	
5	16QAM	1	0	22.25	22.20	22.22	
5	16QAM	1	12	22.12	22.21	21.98	23.5
5	16QAM	1	24	22.06	22.13	22.21	
5	16QAM	12	0	20.92	20.85	20.84	
5	16QAM	12	7	21.04	20.99	20.87	22.5
5	16QAM	12	13	20.97	20.96	20.93	
5	16QAM	25	0	20.98	20.95	20.85	
5	64QAM	1	0	21.21	21.18	21.19	22.5
5	64QAM	1	12	21.09	21.19	20.93	
5	64QAM	1	24	21.00	21.13	21.14	
5	64QAM	12	0	20.89	20.84	20.84	22
5	64QAM	12	7	20.96	20.94	20.86	
5	64QAM	12	13	20.89	20.90	20.90	
5	64QAM	25	0	21.00	20.89	20.78	24
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	23.5
3	QPSK	1	0	22.42	22.41	22.39	
3	QPSK	1	8	22.28	22.40	22.25	
3	QPSK	1	14	22.36	22.36	22.33	23
3	QPSK	8	0	21.92	21.97	21.85	
3	QPSK	8	4	21.73	21.81	21.80	
3	QPSK	8	7	21.82	21.77	21.79	23
3	QPSK	15	0	21.78	21.83	21.80	
3	16QAM	1	0	22.08	22.03	22.05	
3	16QAM	1	8	21.95	22.04	21.81	22
3	16QAM	1	14	21.89	21.96	22.04	
3	16QAM	8	0	20.75	20.68	20.67	
3	16QAM	8	4	20.87	20.82	20.70	22
3	16QAM	8	7	20.80	20.79	20.76	
3	16QAM	15	0	20.81	20.78	20.68	
3	64QAM	1	0	21.04	21.01	21.02	22
3	64QAM	1	8	20.92	21.02	20.76	
3	64QAM	1	14	20.83	20.96	20.97	
3	64QAM	8	0	20.72	20.67	20.67	22
3	64QAM	8	4	20.79	20.77	20.69	
3	64QAM	8	7	20.72	20.73	20.73	
3	64QAM	15	0	20.83	20.72	20.61	24
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	

1.4	QPSK	1	0	22.35	22.34	22.32	23.5
1.4	QPSK	1	3	22.21	22.33	22.18	
1.4	QPSK	1	5	22.29	22.29	22.26	
1.4	QPSK	3	0	21.57	21.62	21.50	
1.4	QPSK	3	1	21.38	21.46	21.45	
1.4	QPSK	3	3	21.47	21.42	21.44	22.5
1.4	QPSK	6	0	21.43	21.48	21.45	
1.4	16QAM	1	0	21.51	21.46	21.48	22.5
1.4	16QAM	1	3	21.38	21.47	21.24	
1.4	16QAM	1	5	21.32	21.39	21.47	
1.4	16QAM	3	0	20.40	20.33	20.32	
1.4	16QAM	3	1	20.52	20.47	20.35	
1.4	16QAM	3	3	20.45	20.44	20.41	21.5
1.4	16QAM	6	0	20.46	20.43	20.33	
1.4	64QAM	1	0	20.69	20.66	20.67	21.5
1.4	64QAM	1	3	20.57	20.67	20.41	
1.4	64QAM	1	5	20.48	20.61	20.62	
1.4	64QAM	3	0	20.37	20.32	20.32	
1.4	64QAM	3	1	20.44	20.42	20.34	
1.4	64QAM	3	3	20.37	20.38	20.38	21.5
1.4	64QAM	6	0	20.48	20.37	20.26	

Band 38(only on channel required) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.75	22.76	22.70	24
20	QPSK	1	49	22.63	22.71	22.60	
20	QPSK	1	99	22.75	22.72	22.54	
20	QPSK	50	0	22.19	22.24	22.22	23
20	QPSK	50	24	22.05	22.06	21.92	
20	QPSK	50	50	22.02	21.95	21.88	
20	QPSK	100	0	22.05	22.08	21.95	23
20	16QAM	1	0	21.95	21.96	21.84	
20	16QAM	1	49	21.85	21.88	21.92	
20	16QAM	1	99	21.77	21.81	21.78	22
20	16QAM	50	0	20.82	20.89	20.70	
20	16QAM	50	24	20.90	20.85	20.87	
20	16QAM	50	50	20.72	20.77	20.70	22
20	16QAM	100	0	20.81	20.82	20.76	
20	64QAM	1	0	20.86	20.93	20.84	
20	64QAM	1	49	20.68	20.76	20.79	22
20	64QAM	1	99	20.75	20.77	20.78	
20	64QAM	50	0	20.74	20.79	20.74	
20	64QAM	50	24	20.78	20.74	20.70	22
20	64QAM	50	50	20.65	20.72	20.59	
20	64QAM	100	0	20.57	20.75	20.61	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.66	22.70	22.69	24
15	QPSK	1	37	22.55	22.63	22.52	
15	QPSK	1	74	22.67	22.64	22.46	
15	QPSK	36	0	22.10	22.15	22.13	24
15	QPSK	36	20	21.96	21.97	21.83	
15	QPSK	36	39	21.93	21.86	21.79	
15	QPSK	75	0	21.96	21.99	21.86	23
15	16QAM	1	0	21.86	21.87	21.75	
15	16QAM	1	37	21.76	21.79	21.83	
15	16QAM	1	74	21.68	21.72	21.69	22
15	16QAM	36	0	20.73	20.80	20.61	
15	16QAM	36	20	20.81	20.76	20.78	
15	16QAM	36	39	20.63	20.68	20.61	22
15	16QAM	75	0	20.72	20.73	20.67	
15	64QAM	1	0	20.77	20.84	20.75	
15	64QAM	1	37	20.59	20.67	20.70	22
15	64QAM	1	74	20.66	20.68	20.69	
15	64QAM	36	0	20.65	20.70	20.65	
15	64QAM	36	20	20.69	20.65	20.61	22
15	64QAM	36	39	20.56	20.63	20.50	
15	64QAM	75	0	20.48	20.66	20.52	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.54	22.58	22.57	24
10	QPSK	1	25	22.43	22.51	22.40	
10	QPSK	1	49	22.55	22.52	22.34	
10	QPSK	25	0	21.98	22.03	22.01	23
10	QPSK	25	12	21.84	21.85	21.71	
10	QPSK	25	25	21.81	21.74	21.67	
10	QPSK	50	0	21.84	21.87	21.74	23
10	16QAM	1	0	21.74	21.75	21.63	
10	16QAM	1	25	21.64	21.67	21.71	
10	16QAM	1	49	21.56	21.60	21.57	22
10	16QAM	25	0	20.61	20.68	20.49	
10	16QAM	25	12	20.69	20.64	20.66	
10	16QAM	25	25	20.51	20.56	20.49	22
10	16QAM	50	0	20.60	20.61	20.55	
10	64QAM	1	0	20.65	20.72	20.63	
10	64QAM	1	25	20.47	20.55	20.58	22
10	64QAM	1	49	20.54	20.56	20.57	
10	64QAM	25	0	20.53	20.58	20.53	
10	64QAM	25	12	20.57	20.53	20.49	22
10	64QAM	25	25	20.44	20.51	20.38	
10	64QAM	50	0	20.36	20.54	20.40	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.45	22.49	22.48	24
5	QPSK	1	12	22.34	22.42	22.31	
5	QPSK	1	24	22.46	22.43	22.25	
5	QPSK	12	0	21.89	21.94	21.92	23
5	QPSK	12	7	21.75	21.76	21.62	
5	QPSK	12	13	21.72	21.65	21.58	
5	QPSK	25	0	21.75	21.78	21.65	23
5	16QAM	1	0	21.65	21.66	21.54	
5	16QAM	1	12	21.55	21.58	21.62	
5	16QAM	1	24	21.47	21.51	21.48	22
5	16QAM	12	0	20.52	20.59	20.40	
5	16QAM	12	7	20.60	20.55	20.57	
5	16QAM	12	13	20.42	20.47	20.40	22
5	16QAM	25	0	20.51	20.52	20.46	
5	64QAM	1	0	20.56	20.63	20.54	
5	64QAM	1	12	20.38	20.46	20.49	22
5	64QAM	1	24	20.45	20.47	20.48	
5	64QAM	12	0	20.44	20.49	20.44	
5	64QAM	12	7	20.48	20.44	20.40	21.5
5	64QAM	12	13	20.35	20.42	20.29	
5	64QAM	25	0	20.27	20.45	20.31	

Band 41 (2535~2655MHz) (dBm) (PC3)										
BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)	
Channel				40140	40390	40640	40890	41140		
Frequency (MHz)				2545	2570	2595	2620	2645		
20	QPSK	1	0	22.95	22.89	22.91	22.87	22.88	24	
20	QPSK	1	49	22.85	22.92	22.75	22.77	22.73		
20	QPSK	1	99	22.94	22.79	22.90	22.80	22.72		
20	QPSK	50	0	22.39	22.53	22.64	22.51	22.42	24	
20	QPSK	50	24	22.30	22.27	22.21	22.06	22.03		
20	QPSK	50	50	22.32	22.21	22.17	22.00	21.90		
20	QPSK	100	0	22.31	22.27	22.22	22.12	22.00	23.5	
20	16QAM	1	0	22.39	22.41	22.35	22.29	22.30		
20	16QAM	1	49	22.32	22.19	22.29	22.22	22.25		
20	16QAM	1	99	22.25	22.11	22.34	22.20	22.22	22.5	
20	16QAM	50	0	21.40	21.36	21.22	21.16	21.07		
20	16QAM	50	24	21.34	21.19	21.25	21.13	21.10		
20	16QAM	50	50	21.31	21.07	21.10	21.02	21.06	22.5	
20	16QAM	100	0	21.22	21.19	21.25	21.19	21.20		
20	64QAM	1	0	21.30	21.37	21.28	21.18	21.22		
20	64QAM	1	49	21.29	21.01	21.19	21.10	21.12	22.5	
20	64QAM	1	99	21.23	21.14	21.23	21.14	21.17		
20	64QAM	50	0	21.35	21.29	21.16	21.09	20.93		
20	64QAM	50	24	21.25	21.20	21.19	21.07	21.11	22.5	
20	64QAM	50	50	21.12	21.13	21.14	21.03	21.05		
20	64QAM	100	0	21.31	21.26	21.30	21.21	21.20		
Channel				40115	40378	40640	40903	41165	Tune-up limit (dBm)	
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5		
15	QPSK	1	0	22.80	22.74	22.76	22.72	22.73	24	
15	QPSK	1	37	22.70	22.77	22.60	22.62	22.58		
15	QPSK	1	74	22.79	22.64	22.75	22.65	22.57		
15	QPSK	36	0	22.22	22.36	22.47	22.34	22.25	23.5	
15	QPSK	36	20	22.13	22.10	22.04	21.89	21.86		
15	QPSK	36	39	22.15	22.04	22.00	21.83	21.73		
15	QPSK	75	0	22.14	22.10	22.05	21.95	21.83	23.5	
15	16QAM	1	0	22.22	22.24	22.18	22.12	22.13		
15	16QAM	1	37	22.15	22.02	22.12	22.05	22.08		
15	16QAM	1	74	22.08	21.94	22.17	22.03	22.05	22.5	
15	16QAM	36	0	21.23	21.19	21.05	20.99	20.90		
15	16QAM	36	20	21.17	21.02	21.08	20.96	20.93		
15	16QAM	36	39	21.14	20.90	20.93	20.85	20.89	22.5	
15	16QAM	75	0	21.05	21.02	21.08	21.02	21.03		
15	64QAM	1	0	21.13	21.20	21.11	21.01	21.05		
15	64QAM	1	37	21.12	20.84	21.02	20.93	20.95	22.5	
15	64QAM	1	74	21.06	20.97	21.06	20.97	21.00		
15	64QAM	36	0	21.18	21.12	20.99	20.92	20.76		
15	64QAM	36	20	21.08	21.03	21.02	20.90	20.94	22.5	
15	64QAM	36	39	20.95	20.96	20.97	20.86	20.88		
15	64QAM	75	0	21.14	21.09	21.13	21.04	21.03		
Channel				40090	40365	40640	40915	41190	Tune-up limit (dBm)	
Frequency (MHz)				2540	2567.5	2595	2622.5	2650		
10	QPSK	1	0	22.72	22.66	22.68	22.64	22.65	24	
10	QPSK	1	25	22.62	22.69	22.52	22.54	22.50		
10	QPSK	1	49	22.71	22.56	22.67	22.57	22.49		
10	QPSK	25	0	22.14	22.28	22.39	22.26	22.17	23.5	
10	QPSK	25	12	22.05	22.02	21.96	21.81	21.78		
10	QPSK	25	25	22.07	21.96	21.92	21.75	21.65		
10	QPSK	50	0	22.06	22.02	21.97	21.87	21.75	23.5	
10	16QAM	1	0	22.14	22.16	22.10	22.04	22.05		
10	16QAM	1	25	22.07	21.94	22.04	21.97	22.00		
10	16QAM	1	49	22.00	21.86	22.09	21.95	21.97	23.5	
10	16QAM	25	0	21.15	21.11	20.97	20.91	20.82		
10	16QAM	25	12	21.09	20.94	21.00	20.88	20.85		
10	16QAM	25	25	21.06	20.82	20.85	20.77	20.81	22.5	
10	16QAM	50	0	20.97	20.94	21.00	20.94	20.95		
10	64QAM	1	0	21.05	21.12	21.03	20.93	20.97		
10	64QAM	1	25	21.04	20.76	20.94	20.85	20.87	22.5	
10	64QAM	1	49	20.98	20.89	20.98	20.89	20.92		
10	64QAM	25	0	21.10	21.04	20.91	20.84	20.68		
10	64QAM	25	12	21.00	20.95	20.94	20.82	20.86	22.5	
10	64QAM	25	25	20.87	20.88	20.89	20.78	20.80		
10	64QAM	50	0	21.06	21.01	21.05	20.96	20.95		
Channel				40065	40353	40640	40928	41215	Tune-up limit (dBm)	
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5		
5	QPSK	1	0	22.64	22.58	22.60	22.56	22.57	24	
5	QPSK	1	12	22.54	22.61	22.44	22.46	22.42		
5	QPSK	1	24	22.63	22.48	22.59	22.49	22.41		
5	QPSK	12	0	22.06	22.20	22.31	22.18	22.09	23.5	
5	QPSK	12	7	21.97	21.94	21.88	21.73	21.70		
5	QPSK	12	13	21.99	21.88	21.84	21.67	21.57		
5	QPSK	25	0	21.98	21.94	21.89	21.79	21.67	23	
5	16QAM	1	0	22.06	22.08	22.02	21.96	21.97		
5	16QAM	1	12	21.99	21.86	21.96	21.89	21.92		
5	16QAM	1	24	21.92	21.78	22.01	21.87	21.89	22	
5	16QAM	12	0	21.07	21.03	20.89	20.83	20.74		
5	16QAM	12	7	21.01	20.86	20.92	20.80	20.77		
5	16QAM	12	13	20.98	20.74	20.77	20.69	20.73	22	
5	16QAM	25	0	20.89	20.86	20.92	20.86	20.87		
5	64QAM	1	0	20.97	21.04	20.95	20.85	20.89		
5	64QAM	1	12	20.96	20.68	20.86	20.77	20.79	22	
5	64QAM	1	24	20.90	20.81	20.90	20.81	20.84		
5	64QAM	12	0	21.02	20.96	20.83	20.76	20.80		
5	64QAM	12	7	20.92	20.87	20.96	20.74	20.79	22	
5	64QAM	12	13	20.79	20.80	20.81	20.70	20.72		
5	64QAM	25	0	20.98	20.93	20.97	20.88	20.87		

2.4GHz WLAN ANT 4

2.4GHz WLAN ANT 4	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	15.48	16.50	15.00	99.55
		CH 6	2437	15.90	17.00	15.00	99.55
		CH 11	2462	15.64	16.50	15.00	99.57
	802.11g 6Mbps	CH 1	2412	13.31	14.50	13.00	97.08
		CH 6	2437	17.72	18.50	17.00	97.08
		CH 11	2462	11.43	12.50	11.00	97.08
	802.11n-HT20 MCS0	CH 1	2412	13.39	14.50	13.00	96.88
		CH 6	2437	17.56	18.50	17.00	96.88
		CH 11	2462	11.31	12.50	11.00	96.88
	802.11n-HT40 MCS0	CH 3	2422	11.58	12.50	11.00	93.64
		CH 6	2437	14.11	15.00	13.50	93.93
		CH 9	2452	9.89	11.00	9.50	93.93
	802.11ac-VHT20 MCS0	CH 1	2412	13.10	14.00	13.00	96.90
		CH 6	2437	17.24	18.00	17.00	96.90
		CH 11	2462	10.97	12.00	11.00	96.90
	802.11ac-VHT40 MCS0	CH 3	2422	11.49	12.50	11.00	93.93
		CH 6	2437	13.94	15.00	13.50	93.93
CH 9		2452	9.83	10.50	9.50	93.93	

5GHz WLAN ANT 4

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 4	802.11a 6Mbps	CH 36	5180	15.54	16.50	13.14	96.53
		CH 44	5220	16.34	17.50	14.00	97.22
		CH 48	5240	15.75	16.50	13.50	96.53
	802.11n-HT20 MCS0	CH 36	5180	15.38	16.50	13.00	96.30
		CH 44	5220	16.41	17.50	14.00	96.30
		CH 48	5240	15.72	16.50	13.50	97.01
	802.11n-HT40 MCS0	CH 38	5190	14.31	15.50	12.00	94.20
		CH 46	5230	16.20	17.00	14.00	94.20
		CH 36	5180	15.35	16.50	13.00	97.06
	802.11ac-VHT20 MCS0	CH 44	5220	16.27	17.50	14.00	97.04
		CH 48	5240	15.81	16.50	13.50	96.32
		CH 38	5190	14.26	15.00	12.00	94.20
	802.11ac-VHT40 MCS0	CH 46	5230	16.20	17.00	14.00	94.20
		CH 42	5210	13.70	14.50	11.50	86.49

5GHz WLAN ANT 4

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 4	802.11a 6Mbps	CH 52	5260	19.15	20.00	17.00	96.53
		CH 60	5300	18.21	19.00	16.00	96.53
		CH 64	5320	15.20	16.00	13.00	97.20
	802.11n-HT20 MCS0	CH 52	5260	19.33	20.00	17.00	96.30
		CH 60	5300	18.07	19.00	16.00	96.30
		CH 64	5320	15.09	16.00	13.00	96.30
	802.11n-HT40 MCS0	CH 54	5270	16.53	17.50	14.50	92.86
		CH 62	5310	13.64	14.50	11.50	92.86
		CH 52	5260	19.40	20.50	17.00	97.06
	802.11ac-VHT20 MCS0	CH 60	5300	18.07	19.00	16.00	96.32
		CH 64	5320	15.09	16.00	13.00	97.06
		CH 54	5270	16.53	17.50	14.50	92.86
	802.11ac-VHT40 MCS0	CH 62	5310	13.65	14.50	11.50	94.29
		CH 58	5290	12.54	13.50	10.50	89.19

5GHz WLAN ANT 4

5.5GHz WLAN ANT 4							
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
5.5GHz WLAN ANT 4	802.11a 6Mbps	CH 100	5500	12.76	13.50	10.00	96.53
		CH 116	5580	19.29	20.00	17.00	97.22
		CH 140	5700	19.30	20.00	9.50	97.20
	802.11n-HT20 MCS0	CH 100	5500	12.51	13.50	10.00	96.30
		CH 116	5580	19.40	20.50	17.00	97.01
		CH 140	5700	12.08	13.00	9.50	97.01
	802.11n-HT40 MCS0	CH 102	5510	11.47	12.50	9.00	94.20
		CH 110	5550	16.83	17.50	14.50	92.75
		CH 134	5670	14.56	15.50	12.00	94.20
	802.11ac-VHT20 MCS0	CH 100	5500	12.42	13.50	10.00	96.32
		CH 116	5580	19.46	20.50	17.00	97.06
		CH 140	5700	12.08	13.00	9.50	96.32
	802.11ac-VHT40 MCS0	CH 102	5510	11.49	12.50	9.00	92.86
		CH 110	5550	16.87	17.50	14.50	94.29
		CH 134	5670	14.56	15.50	12.00	94.20
	802.11ac-VHT80 MCS0	CH 106	5530	12.55	13.50	10.13.5	88.89
		CH 122	5610	16.07	17.00		86.49

5GHz WLAN ANT 4

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 4	802.11a 6Mbps	CH 149	5745	18.38	19.00	17.00	97.22
		CH 157	5785	18.20	19.00	17.00	97.20
		CH 165	5825	18.27	19.00	17.00	97.20
	802.11n-HT20 MCS0	CH 149	5745	18.18	19.00	17.00	96.30
		CH 157	5785	18.32	19.00	17.00	96.30
		CH 165	5825	18.29	19.00	17.00	96.30
	802.11n-HT40 MCS0	CH 151	5755	16.94	18.00	15.00	92.75
		CH 159	5795	16.32	17.00	15.00	94.20
		CH 149	5745	18.65	19.50	17.00	96.32
	802.11ac-VHT20 MCS0	CH 157	5785	18.37	19.00	17.00	97.04
		CH 165	5825	18.43	19.00	17.00	97.04
		CH 151	5755	16.47	17.50	15.00	94.20
	802.11ac-VHT40 MCS0	CH 159	5795	16.33	17.00	15.00	92.86
		CH 155	5775	15.84	16.50	14.00	89.19

Mode	Channel	Frequency (MHz)	Average power (dBm)			Average power (dBm)			Average power (dBm)		
			1Mbps	Tune-Up Limit	Duty Cycle %	2Mbps	Tune-Up Limit	Duty Cycle %	3Mbps	Tune-Up Limit	Duty Cycle %
BR / EDR	CH 00	2402	10.80	11.50	76.91	10.83	11.50	40.69	10.77	11.50	77.03
	CH 39	2441	11.64	12.50	76.91	11.00	12.00	77.01	11.00	12.00	77.04
	CH 78	2480	11.92	13.00	77.07	11.33	12.00	77.17	11.39	12.00	77.17
	Power Setting		default			default			default		

Mode	Channel	Frequency (MHz)	1Mbps		
			Average power (dBm)	Tune-up Limit	Duty Cycle %
BLE	CH 00	2402	5.30	6.00	61.44
	CH 39	2441	6.28	7.00	61.44
	CH 78	2480	6.19	7.00	61.44
	Power Setting		default		

Reduced Power Level 1 for ANT 1

GSM1900 Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	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	26.00	26.03	25.95	27.00	17.00	17.03	16.95	18.00
GPRS 1 Tx slot	25.90	26.01	25.70	27.00	16.90	17.01	16.70	18.00
GPRS 2 Tx slots	23.24	23.30	23.00	24.00	17.24	17.30	17.00	18.00
GPRS 3 Tx slots	21.86	21.90	21.84	23.00	17.60	17.64	17.58	18.74
GPRS 4 Tx slots	20.74	20.78	20.80	22.00	17.74	17.78	17.80	19.00
EDGE 1 Tx slot	22.10	22.17	22.13	23.00	13.10	13.17	13.13	14.00
EDGE 2 Tx slots	19.82	19.87	19.83	21.00	13.82	13.87	13.83	15.00
EDGE 3 Tx slots	18.73	18.87	18.79	20.00	14.47	14.61	14.53	15.74
EDGE 4 Tx slots	16.99	17.15	17.07	18.00	13.99	14.15	14.07	15.00
Mode		Max.	26.03			Max.	17.80	
Attenuator	Cable Loss : 0.8							

Band	WCDMA Band II (dBm)_Ant 1			Tune-up Limit (dBm)	WCDMA Band IV (dBm)_Ant 1			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
TX Channel	9662	9800	9938		1537	1638	1738	
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	17.50	17.58	17.55	18.50	17.72	17.80	17.76	18.50
3GPP Rel 5 HSDPA Subtest-1	17.13	17.00	16.91	18.00	17.72	17.60	17.53	18.50
3GPP Rel 5 HSDPA Subtest-2	17.06	16.96	16.90	18.00	17.71	17.75	17.50	18.50
3GPP Rel 5 HSDPA Subtest-3	16.89	16.78	16.70	17.50	17.25	17.24	17.30	18.00
3GPP Rel 5 HSDPA Subtest-4	16.86	16.75	16.69	17.50	17.22	17.24	16.99	18.00
3GPP Rel 8 DC-HSDPA Subtest-1	17.46	17.37	17.31	18.50	17.74	17.67	17.52	18.50
3GPP Rel 8 DC-HSDPA Subtest-2	17.41	17.35	17.33	18.50	17.70	17.66	17.50	18.50
3GPP Rel 8 DC-HSDPA Subtest-3	16.86	16.81	16.84	18.00	17.16	17.13	16.96	18.00
3GPP Rel 8 DC-HSDPA Subtest-4	16.86	16.79	16.81	18.00	17.16	17.12	16.94	18.00
3GPP Rel 6 HSUPA Subtest-1	16.85	16.78	16.65	17.50	17.18	17.20	16.98	18.00
3GPP Rel 6 HSUPA Subtest-2	17.38	17.28	17.20	18.00	17.71	17.63	17.47	18.50
3GPP Rel 6 HSUPA Subtest-3	16.38	16.29	16.19	17.00	16.75	16.69	16.54	17.50
3GPP Rel 6 HSUPA Subtest-4	17.37	17.28	17.20	18.00	17.71	17.64	17.47	18.50
3GPP Rel 6 HSUPA Subtest-5	16.36	16.26	16.17	17.00	16.68	16.65	16.45	17.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	16.43	16.30	16.20	17.00	16.73	16.66	16.53	17.50
Attenuator		Cable Loss	0.8			Cable Loss	0.8	
Mode		Max.	17.58			Max.	17.80	

Band 2 (1900MHz Band) (dBm)_Ant 1							
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	17.88	17.95	17.86	
20	QPSK	1	49	17.84	17.86	17.79	19
20	QPSK	1	99	17.76	17.83	17.80	
20	QPSK	50	0	16.98	17.05	17.00	
20	QPSK	50	24	16.94	16.88	16.86	18
20	QPSK	50	50	16.91	16.94	16.87	
20	QPSK	100	0	16.94	16.95	16.84	
20	16QAM	1	0	17.21	17.12	16.95	18
20	16QAM	1	49	17.09	17.18	17.13	
20	16QAM	1	99	17.19	16.96	17.23	
20	16QAM	50	0	15.90	15.85	15.89	17
20	16QAM	50	24	16.11	15.96	15.95	
20	16QAM	50	50	15.98	16.01	16.03	
20	16QAM	100	0	15.96	15.98	15.94	17
20	84QAM	1	0	16.06	16.20	16.15	
20	84QAM	1	49	16.09	16.13	16.03	
20	84QAM	1	99	16.19	16.07	15.89	17
20	84QAM	50	0	16.04	15.93	15.93	
20	84QAM	50	24	15.87	15.88	15.95	
20	84QAM	50	50	16.00	15.93	15.98	17
20	84QAM	100	0	15.92	15.95	15.94	
Channel				1867.5	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.75	17.77	17.80	
15	QPSK	1	37	17.63	17.65	17.58	19
15	QPSK	1	74	17.55	17.62	17.59	
15	QPSK	36	0	16.91	16.98	16.93	18
15	QPSK	36	20	16.87	16.81	16.79	
15	QPSK	36	39	16.84	16.87	16.80	
15	QPSK	75	0	16.87	16.88	16.77	18
15	16QAM	1	0	17.14	17.05	16.88	
15	16QAM	1	37	17.02	17.11	17.06	
15	16QAM	1	74	17.12	16.89	17.16	17
15	16QAM	36	0	15.83	15.78	15.82	
15	16QAM	36	20	16.04	15.89	15.88	
15	16QAM	36	39	15.91	15.94	15.96	17
15	16QAM	75	0	15.89	15.91	15.87	
15	64QAM	1	0	15.99	16.13	16.08	
15	64QAM	1	37	16.02	16.06	15.96	17
15	64QAM	1	74	16.12	16.00	15.82	
15	64QAM	36	0	15.97	15.86	15.86	
15	64QAM	36	20	15.80	15.81	15.88	17
15	64QAM	36	39	15.93	15.86	15.91	
15	64QAM	75	0	15.85	15.88	15.87	
Channel				18950	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.68	17.70	17.73	
10	QPSK	1	25	17.56	17.58	17.51	19
10	QPSK	1	49	17.48	17.55	17.52	
10	QPSK	25	0	16.84	16.91	16.86	18
10	QPSK	25	12	16.80	16.74	16.72	
10	QPSK	25	25	16.77	16.80	16.73	
10	QPSK	50	0	16.80	16.81	16.70	18
10	16QAM	1	0	17.07	16.98	16.81	
10	16QAM	1	25	16.95	17.04	16.99	
10	16QAM	1	49	17.05	16.82	17.09	17
10	16QAM	25	0	15.76	15.71	15.75	
10	16QAM	25	12	15.97	15.82	15.81	
10	16QAM	25	25	15.84	15.87	15.89	17
10	16QAM	50	0	15.82	15.84	15.80	
10	64QAM	1	0	15.92	16.06	16.01	
10	64QAM	1	25	15.95	15.99	15.89	17
10	64QAM	1	49	16.05	15.93	15.75	
10	64QAM	25	0	15.90	15.79	15.79	
10	64QAM	25	12	15.73	15.74	15.81	17
10	64QAM	25	25	15.86	15.79	15.84	
10	64QAM	50	0	15.78	15.81	15.80	
Channel				1882.5	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.61	17.63	17.66	
5	QPSK	1	12	17.49	17.51	17.44	19
5	QPSK	1	24	17.41	17.48	17.45	
5	QPSK	12	0	16.77	16.84	16.79	18
5	QPSK	12	7	16.73	16.67	16.65	
5	QPSK	12	13	16.70	16.73	16.66	
5	QPSK	25	0	16.73	16.74	16.63	18
5	16QAM	1	0	17.00	16.91	16.74	
5	16QAM	1	12	16.88	16.97	16.92	
5	16QAM	1	24	16.98	16.75	17.02	17
5	16QAM	12	0	15.75	15.70	15.74	
5	16QAM	12	7	15.96	15.81	15.80	
5	16QAM	12	13	15.83	15.86	15.88	17
5	16QAM	25	0	15.81	15.83	15.79	
5	64QAM	1	0	15.85	15.99	15.94	
5	64QAM	1	12	15.88	15.92	15.82	17
5	64QAM	1	24	15.98	15.86	15.84	
5	64QAM	12	0	15.89	15.78	15.78	
5	64QAM	12	7	15.72	15.73	15.80	17
5	64QAM	12	13	15.85	15.78	15.83	
5	64QAM	25	0	15.77	15.80	15.79	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.54	17.56	17.59	
3	QPSK	1	8	17.42	17.44	17.37	19
3	QPSK	1	14	17.34	17.41	17.38	
3	QPSK	8	0	16.70	16.77	16.72	18
3	QPSK	8	4	16.66	16.60	16.58	
3	QPSK	8	7	16.63	16.66	16.59	
3	QPSK	15	0	16.66	16.67	16.56	18
3	16QAM	1	0	16.83	16.84	16.67	
3	16QAM	1	8	16.81	16.81	16.85	
3	16QAM	1	14	16.83	16.81	16.84	17
3	16QAM	8	0	15.62	15.57	15.61	
3	16QAM	8	4	15.83	15.68	15.67	
3	16QAM	8	7	15.70	15.73	15.75	17
3	16QAM	15	0	15.68	15.70	15.66	
3	64QAM	1	0	15.78	15.92	15.87	
3	64QAM	1	8	15.81	15.85	15.75	17
3	64QAM	1	14	15.91	15.79	15.61	
3	64QAM	8	0	15.76	15.65	15.65	
3	64QAM	8	4	15.59	15.60	15.67	17
3	64QAM	8	7	15.72	15.65	15.70	
3	64QAM	15	0	15.64	15.67	15.66	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	

Band 4 (AWS Band) (dBm)_Ant 1							
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	17.50	17.48	17.44	18.5
20	QPSK	1	49	17.46	17.47	17.48	
20	QPSK	1	99	17.38	17.40	17.43	
20	QPSK	50	0	16.69	16.76	16.80	17.5
20	QPSK	50	24	16.50	16.53	16.54	
20	QPSK	50	50	16.47	16.50	16.56	
20	QPSK	100	0	16.44	16.53	16.48	17.5
20	16QAM	1	0	16.17	16.42	16.48	
20	16QAM	1	49	16.42	16.48	16.33	
20	16QAM	1	99	16.49	16.48	16.59	16.5
20	16QAM	50	0	15.55	15.51	15.56	
20	16QAM	50	24	15.58	15.47	15.51	
20	16QAM	50	50	15.63	15.49	15.50	16.5
20	16QAM	100	0	15.55	15.54	15.52	
20	84QAM	1	0	15.67	15.61	15.65	
20	84QAM	1	49	15.47	15.49	15.65	16.5
20	84QAM	1	99	15.57	15.58	15.69	
20	84QAM	50	0	15.49	15.46	15.47	
20	84QAM	50	24	15.48	15.50	15.63	16.5
20	84QAM	50	50	15.52	15.49	15.67	
20	84QAM	100	0	15.50	15.47	15.58	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.56	17.59	17.55	18.5
15	QPSK	1	37	17.40	17.41	17.42	
15	QPSK	1	74	17.32	17.34	17.37	
15	QPSK	36	0	16.63	16.70	16.74	17.5
15	QPSK	36	20	16.44	16.47	16.48	
15	QPSK	36	39	16.41	16.44	16.50	
15	QPSK	75	0	16.38	16.47	16.42	17.5
15	16QAM	1	0	16.11	16.36	16.42	
15	16QAM	1	37	16.36	16.42	16.27	
15	16QAM	1	74	16.43	16.42	16.53	16.5
15	16QAM	36	0	15.49	15.45	15.50	
15	16QAM	36	20	15.52	15.41	15.45	
15	16QAM	36	39	15.57	15.43	15.44	16.5
15	16QAM	75	0	15.49	15.48	15.46	
15	84QAM	1	0	15.61	15.55	15.59	
15	84QAM	1	37	15.41	15.43	15.59	16.5
15	84QAM	1	74	15.51	15.52	15.63	
15	84QAM	36	0	15.43	15.40	15.41	
15	84QAM	36	20	15.42	15.44	15.57	16.5
15	84QAM	36	39	15.46	15.43	15.61	
15	84QAM	75	0	15.44	15.41	15.52	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.52	17.55	17.51	18.5
10	QPSK	1	25	17.36	17.37	17.38	
10	QPSK	1	49	17.28	17.30	17.33	
10	QPSK	25	0	16.59	16.66	16.70	17.5
10	QPSK	25	12	16.40	16.43	16.44	
10	QPSK	25	25	16.37	16.40	16.46	
10	QPSK	50	0	16.34	16.43	16.38	17.5
10	16QAM	1	0	16.07	16.32	16.38	
10	16QAM	1	25	16.32	16.36	16.23	
10	16QAM	1	49	16.39	16.38	16.49	16.5
10	16QAM	25	0	15.45	15.41	15.46	
10	16QAM	25	12	15.48	15.37	15.41	
10	16QAM	25	25	15.53	15.39	15.40	16.5
10	16QAM	50	0	15.45	15.44	15.42	
10	84QAM	1	0	15.57	15.51	15.55	
10	84QAM	1	25	15.37	15.39	15.55	16.5
10	84QAM	1	49	15.47	15.48	15.59	
10	84QAM	25	0	15.39	15.36	15.37	
10	84QAM	25	12	15.38	15.40	15.53	16.5
10	84QAM	25	25	15.42	15.39	15.57	
10	84QAM	50	0	15.40	15.37	15.48	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.47	17.50	17.46	18.5
5	QPSK	1	12	17.31	17.32	17.33	
5	QPSK	1	24	17.23	17.25	17.28	
5	QPSK	12	0	16.54	16.61	16.65	17.5
5	QPSK	12	7	16.35	16.38	16.39	
5	QPSK	12	13	16.32	16.35	16.41	
5	QPSK	25	0	16.29	16.38	16.33	17.5
5	16QAM	1	0	16.02	16.27	16.33	
5	16QAM	1	12	16.27	16.33	16.18	
5	16QAM	1	24	16.34	16.33	16.44	16.5
5	16QAM	12	0	15.40	15.36	15.41	
5	16QAM	12	7	15.43	15.32	15.36	
5	16QAM	12	13	15.48	15.34	15.35	16.5
5	16QAM	25	0	15.40	15.39	15.37	
5	84QAM	1	0	15.52	15.46	15.50	
5	84QAM	1	12	15.32	15.34	15.50	16.5
5	84QAM	1	24	15.42	15.43	15.54	
5	84QAM	12	0	15.34	15.31	15.32	
5	84QAM	12	7	15.33	15.35	15.48	16.5
5	84QAM	12	13	15.37	15.34	15.52	
5	84QAM	25	0	15.35	15.32	15.43	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	17.42	17.45	17.41	18.5
3	QPSK	1	8	17.26	17.27	17.28	
3	QPSK	1	14	17.18	17.20	17.23	
3	QPSK	8	0	16.49	16.56	16.60	17.5
3	QPSK	8	4	16.30	16.33	16.34	
3	QPSK	8	7	16.27	16.30	16.36	
3	QPSK	15	0	16.24	16.33	16.28	17.5
3	16QAM	1	0	15.97	16.22	16.28	
3	16QAM	1	8	16.22	16.28	16.13	
3	16QAM	1	14	16.29	16.28	16.30	16.5
3	16QAM	8	0	15.35	15.31	15.36	
3	16QAM	8	4	15.38	15.27	15.31	
3	16QAM	8	7	15.43	15.29	15.30	16.5
3	16QAM	15	0	15.35	15.34	15.32	
3	84QAM	1	0	15.47	15.41	15.45	
3	84QAM	1	8	15.27	15.29	15.45	16.5
3	84QAM	1	14	15.37	15.38	15.49	
3	84QAM	8	0	15.29	15.26	15.27	
3	84QAM	8	4	15.28	15.30	15.43	16.5
3	84QAM	8	7	15.32	15.29	15.47	
3	84QAM	15	0	15.30	15.27	15.38	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	

1.4	QPSK	1	0	17.47	17.49	17.52	19
1.4	QPSK	1	3	17.35	17.37	17.30	
1.4	QPSK	1	5	17.27	17.34	17.31	
1.4	QPSK	3	0	16.63	16.70	16.65	
1.4	QPSK	3	1	16.59	16.53	16.51	
1.4	QPSK	3	3	16.56	16.59	16.52	
1.4	QPSK	6	0	16.59	16.60	16.49	18
1.4	16QAM	1	0	16.86	16.77	16.60	18
1.4	16QAM	1	3	16.74	16.83	16.78	
1.4	16QAM	1	5	16.76	16.61	16.75	
1.4	16QAM	3	0	15.55	15.50	15.54	
1.4	16QAM	3	1	15.76	15.61	15.60	
1.4	16QAM	3	3	15.63	15.66	15.68	
1.4	16QAM	6	0	15.61	15.63	15.59	17
1.4	64QAM	1	0	15.71	15.85	15.80	17
1.4	64QAM	1	3	15.74	15.78	15.68	
1.4	64QAM	1	5	15.84	15.72	15.54	
1.4	64QAM	3	0	15.69	15.58	15.58	
1.4	64QAM	3	1	15.52	15.53	15.60	
1.4	64QAM	3	3	15.65	15.58	15.63	
1.4	64QAM	6	0	15.57	15.60	15.59	17

1.4	QPSK	1	0	17.37	17.40	17.36	18.5
1.4	QPSK	1	3	17.21	17.22	17.23	
1.4	QPSK	1	5	17.13	17.15	17.18	
1.4	QPSK	3	0	16.44	16.51	16.55	
1.4	QPSK	3	1	16.25	16.28	16.29	
1.4	QPSK	3	3	16.22	16.25	16.31	
1.4	QPSK	6	0	16.19	16.28	16.23	17.5
1.4	16QAM	1	0	15.92	16.17	16.23	17.5
1.4	16QAM	1	3	16.17	16.23	16.08	
1.4	16QAM	1	5	16.24	16.23	16.34	
1.4	16QAM	3	0	15.30	15.26	15.31	
1.4	16QAM	3	1	15.33	15.22	15.26	
1.4	16QAM	3	3	15.38	15.24	15.25	
1.4	16QAM	6	0	15.30	15.29	15.27	16.5
1.4	64QAM	1	0	15.42	15.36	15.40	16.5
1.4	64QAM	1	3	15.22	15.24	15.40	
1.4	64QAM	1	5	15.32	15.33	15.44	
1.4	64QAM	3	0	15.24	15.21	15.22	
1.4	64QAM	3	1	15.23	15.25	15.38	
1.4	64QAM	3	3	15.27	15.24	15.42	
1.4	64QAM	6	0	15.25	15.22	15.33	16.5

Band 7 (2600MHz Band) (dBm)_Ant 1							
Part 27							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	18
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.13	17.04	17.06	
20	QPSK	1	49	17.01	17.02	17.03	17
20	QPSK	1	99	16.93	16.95	16.98	
20	QPSK	50	0	16.15	16.06	16.14	
20	QPSK	50	24	16.09	16.12	16.13	17
20	QPSK	50	50	16.06	16.09	16.15	
20	QPSK	100	0	16.03	16.12	16.07	
20	16QAM	1	0	15.76	16.01	16.07	17
20	16QAM	1	49	16.01	16.07	15.92	
20	16QAM	1	99	16.08	16.07	16.18	
20	16QAM	50	0	15.14	15.10	15.15	16
20	16QAM	50	24	15.17	15.06	15.10	
20	16QAM	50	50	15.22	15.08	15.09	
20	16QAM	100	0	15.14	15.13	15.11	16
20	64QAM	1	0	15.26	15.20	15.24	
20	64QAM	1	49	15.06	15.08	15.24	
20	64QAM	1	99	15.16	15.17	15.28	16
20	64QAM	50	0	15.08	15.05	15.06	
20	64QAM	50	24	15.07	15.09	15.22	
20	64QAM	50	50	15.11	15.08	15.26	16
20	64QAM	100	0	15.09	15.06	15.17	
Channel				20925	21100	21375	18
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.90	16.92	16.87	
15	QPSK	1	37	16.85	16.86	16.87	17
15	QPSK	1	74	16.77	16.79	16.82	
15	QPSK	36	0	15.99	15.90	15.98	
15	QPSK	36	20	15.93	15.96	15.97	17
15	QPSK	36	39	15.90	15.93	15.99	
15	QPSK	75	0	15.87	15.96	15.91	
15	16QAM	1	0	15.60	15.85	15.91	17
15	16QAM	1	37	15.85	15.91	15.76	
15	16QAM	1	74	15.92	15.91	16.02	
15	16QAM	36	0	14.98	14.94	14.99	16
15	16QAM	36	20	15.01	14.90	14.94	
15	16QAM	36	39	15.06	14.92	14.93	
15	16QAM	75	0	14.98	14.97	14.95	16
15	64QAM	1	0	15.10	15.04	15.08	
15	64QAM	1	37	14.90	14.92	15.08	
15	64QAM	1	74	15.00	15.01	15.12	16
15	64QAM	36	0	14.92	14.89	14.90	
15	64QAM	36	20	14.91	14.93	15.06	
15	64QAM	36	39	14.95	14.92	15.10	16
15	64QAM	75	0	14.93	14.90	15.01	
Channel				20890	21100	21400	18
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.84	16.86	16.81	
10	QPSK	1	25	16.79	16.80	16.81	17
10	QPSK	1	49	16.71	16.73	16.76	
10	QPSK	25	0	15.93	15.84	15.92	
10	QPSK	25	12	15.87	15.90	15.91	17
10	QPSK	25	25	15.84	15.87	15.93	
10	QPSK	50	0	15.81	15.90	15.85	
10	16QAM	1	0	15.76	15.79	15.85	17
10	16QAM	1	25	15.79	15.85	15.70	
10	16QAM	1	49	15.86	15.85	15.96	
10	16QAM	25	0	14.92	14.88	14.93	16
10	16QAM	25	12	14.95	14.84	14.88	
10	16QAM	25	25	15.00	14.86	14.87	
10	16QAM	50	0	14.92	14.91	14.89	16
10	64QAM	1	0	15.04	14.98	15.02	
10	64QAM	1	25	14.84	14.86	15.02	
10	64QAM	1	49	14.94	14.95	15.06	16
10	64QAM	25	0	14.86	14.83	14.84	
10	64QAM	25	12	14.85	14.87	15.00	
10	64QAM	25	25	14.89	14.86	15.04	16
10	64QAM	50	0	14.87	14.84	14.95	
Channel				20775	21100	21425	18
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.78	16.80	16.75	
5	QPSK	1	12	16.73	16.74	16.75	17
5	QPSK	1	24	16.65	16.67	16.70	
5	QPSK	12	0	15.87	15.78	15.86	
5	QPSK	12	7	15.81	15.84	15.85	17
5	QPSK	12	13	15.78	15.81	15.87	
5	QPSK	25	0	15.75	15.84	15.79	
5	16QAM	1	0	15.56	15.73	15.79	17
5	16QAM	1	12	15.73	15.79	15.64	
5	16QAM	1	24	15.80	15.79	15.90	
5	16QAM	12	0	14.86	14.82	14.87	16
5	16QAM	12	7	14.89	14.78	14.82	
5	16QAM	12	13	14.94	14.80	14.81	
5	16QAM	25	0	14.86	14.85	14.83	16
5	64QAM	1	0	14.98	14.92	14.96	
5	64QAM	1	12	14.78	14.80	14.96	
5	64QAM	1	24	14.88	14.89	15.00	16
5	64QAM	12	0	14.80	14.77	14.78	
5	64QAM	12	7	14.79	14.81	14.94	
5	64QAM	12	13	14.83	14.80	14.98	16
5	64QAM	25	0	14.81	14.78	14.89	

Band 66 (dBm)_Ant 1							
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	18.05	18.06	18.04	19
20	QPSK	1	49	17.86	17.98	17.83	
20	QPSK	1	99	17.94	17.94	17.91	
20	QPSK	50	0	17.60	17.65	17.53	18.5
20	QPSK	50	24	17.41	17.49	17.48	
20	QPSK	50	50	17.50	17.45	17.47	
20	QPSK	100	0	17.46	17.51	17.48	18.5
20	16QAM	1	0	17.76	17.71	17.73	
20	16QAM	1	49	17.63	17.72	17.49	
20	16QAM	1	99	17.57	17.64	17.72	18.5
20	16QAM	50	0	16.43	16.36	16.35	
20	16QAM	50	24	16.55	16.50	16.38	
20	16QAM	50	50	16.48	16.47	16.44	17.5
20	16QAM	100	0	16.49	16.46	16.36	
20	64QAM	1	0	16.72	16.69	16.70	
20	64QAM	1	49	16.60	16.70	16.44	17.5
20	64QAM	1	99	16.51	16.64	16.65	
20	64QAM	50	0	16.40	16.35	16.35	
20	64QAM	50	24	16.47	16.45	16.37	17.5
20	64QAM	50	50	16.40	16.41	16.41	
20	64QAM	100	0	16.51	16.40	16.29	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.93	17.92	17.90	19
15	QPSK	1	37	17.79	17.91	17.76	
15	QPSK	1	74	17.87	17.87	17.84	
15	QPSK	36	0	17.53	17.58	17.46	18.5
15	QPSK	36	20	17.34	17.42	17.41	
15	QPSK	36	39	17.43	17.38	17.40	
15	QPSK	75	0	17.39	17.44	17.41	18.5
15	16QAM	1	0	17.69	17.64	17.66	
15	16QAM	1	37	17.56	17.65	17.42	
15	16QAM	1	74	17.50	17.57	17.65	18.5
15	16QAM	36	0	16.36	16.29	16.28	
15	16QAM	36	20	16.48	16.43	16.31	
15	16QAM	36	39	16.41	16.40	16.37	17.5
15	16QAM	75	0	16.42	16.39	16.29	
15	64QAM	1	0	16.65	16.62	16.63	
15	64QAM	1	37	16.53	16.63	16.37	17.5
15	64QAM	1	74	16.44	16.57	16.58	
15	64QAM	36	0	16.33	16.28	16.28	
15	64QAM	36	20	16.40	16.38	16.30	17.5
15	64QAM	36	39	16.33	16.34	16.34	
15	64QAM	75	0	16.44	16.33	16.22	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.86	17.85	17.83	19
10	QPSK	1	25	17.72	17.84	17.69	
10	QPSK	1	49	17.80	17.80	17.77	
10	QPSK	25	0	17.46	17.51	17.39	18.5
10	QPSK	25	12	17.30	17.35	17.34	
10	QPSK	25	25	17.36	17.31	17.33	
10	QPSK	50	0	17.32	17.37	17.34	18.5
10	16QAM	1	0	17.62	17.57	17.59	
10	16QAM	1	25	17.49	17.58	17.35	
10	16QAM	1	49	17.43	17.50	17.58	17.5
10	16QAM	25	0	16.29	16.22	16.21	
10	16QAM	25	12	16.41	16.36	16.24	
10	16QAM	25	25	16.34	16.33	16.30	17.5
10	16QAM	50	0	16.35	16.32	16.22	
10	64QAM	1	0	16.58	16.55	16.56	
10	64QAM	1	25	16.46	16.56	16.30	17.5
10	64QAM	1	49	16.37	16.50	16.51	
10	64QAM	25	0	16.26	16.21	16.21	
10	64QAM	25	12	16.33	16.31	16.23	17.5
10	64QAM	25	25	16.26	16.27	16.27	
10	64QAM	50	0	16.37	16.26	16.15	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	17.79	17.78	17.76	19
5	QPSK	1	12	17.65	17.77	17.62	
5	QPSK	1	24	17.73	17.73	17.70	
5	QPSK	12	0	17.39	17.44	17.32	18.5
5	QPSK	12	7	17.20	17.28	17.27	
5	QPSK	12	13	17.29	17.24	17.26	
5	QPSK	25	0	17.25	17.30	17.27	18.5
5	16QAM	1	0	17.55	17.50	17.52	
5	16QAM	1	12	17.42	17.51	17.28	
5	16QAM	1	24	17.36	17.43	17.51	17.5
5	16QAM	12	0	16.22	16.15	16.14	
5	16QAM	12	7	16.34	16.29	16.17	
5	16QAM	12	13	16.27	16.26	16.23	17.5
5	16QAM	25	0	16.28	16.25	16.15	
5	64QAM	1	0	16.51	16.48	16.49	
5	64QAM	1	12	16.39	16.49	16.23	17.5
5	64QAM	1	24	16.30	16.43	16.44	
5	64QAM	12	0	16.19	16.14	16.14	
5	64QAM	12	7	16.26	16.24	16.16	17.5
5	64QAM	12	13	16.19	16.20	16.20	
5	64QAM	25	0	16.30	16.19	16.08	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	17.72	17.71	17.69	19
3	QPSK	1	8	17.58	17.70	17.55	
3	QPSK	1	14	17.66	17.66	17.63	
3	QPSK	8	0	17.22	17.27	17.15	18.5
3	QPSK	8	4	17.03	17.11	17.10	
3	QPSK	8	7	17.12	17.07	17.09	
3	QPSK	15	0	17.08	17.13	17.10	18.5
3	16QAM	1	0	17.38	17.33	17.35	
3	16QAM	1	8	17.25	17.34	17.11	
3	16QAM	1	14	17.19	17.26	17.34	17.5
3	16QAM	8	0	16.05	15.98	15.97	
3	16QAM	8	4	16.17	16.12	16.00	
3	16QAM	8	7	16.10	16.09	16.06	17.5
3	16QAM	15	0	16.11	16.08	15.98	
3	64QAM	1	0	16.34	16.31	16.32	
3	64QAM	1	8	16.22	16.32	16.06	17.5
3	64QAM	1	14	16.13	16.26	16.27	
3	64QAM	8	0	16.02	15.97	15.97	
3	64QAM	8	4	16.09	16.07	15.99	17.5
3	64QAM	8	7	16.02	16.03	16.03	
3	64QAM	15	0	16.13	16.02	15.91	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	

1.4	QPSK	1	0	17.65	17.64	17.62	19
1.4	QPSK	1	3	17.51	17.63	17.48	
1.4	QPSK	1	5	17.59	17.59	17.56	
1.4	QPSK	3	0	16.87	16.92	16.80	
1.4	QPSK	3	1	16.68	16.76	16.75	
1.4	QPSK	3	3	16.77	16.72	16.74	
1.4	QPSK	6	0	16.73	16.78	16.75	17.5
1.4	16QAM	1	0	16.81	16.76	16.78	17.5
1.4	16QAM	1	3	16.68	16.77	16.54	
1.4	16QAM	1	5	16.62	16.69	16.77	
1.4	16QAM	3	0	15.70	15.63	15.62	
1.4	16QAM	3	1	15.82	15.77	15.65	
1.4	16QAM	3	3	15.75	15.74	15.71	
1.4	16QAM	6	0	15.76	15.73	15.63	16.5
1.4	64QAM	1	0	15.99	15.96	15.97	16.5
1.4	64QAM	1	3	15.87	15.97	15.71	
1.4	64QAM	1	5	15.78	15.91	15.92	
1.4	64QAM	3	0	15.67	15.62	15.62	
1.4	64QAM	3	1	15.74	15.72	15.64	
1.4	64QAM	3	3	15.67	15.68	15.68	
1.4	64QAM	6	0	15.78	15.67	15.56	16.5

Band 38(only on channel required) (dBm)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	19.89	19.95	19.90	21
20	QPSK	1	49	19.63	19.71	19.60	
20	QPSK	1	99	19.75	19.72	19.54	
20	QPSK	50	0	19.09	19.14	19.12	
20	QPSK	50	24	19.05	19.06	18.92	20
20	QPSK	50	50	19.02	18.95	18.88	
20	QPSK	100	0	19.05	19.08	18.95	
20	16QAM	1	0	18.95	18.96	18.84	
20	16QAM	1	49	18.85	18.88	18.92	20
20	16QAM	1	99	18.77	18.81	18.78	
20	16QAM	50	0	17.82	17.89	17.70	
20	16QAM	50	24	17.90	17.85	17.87	
20	16QAM	50	50	17.72	17.77	17.70	19
20	16QAM	100	0	17.81	17.82	17.76	
20	64QAM	1	0	17.86	17.93	17.84	
20	64QAM	1	49	17.68	17.76	17.79	
20	64QAM	1	99	17.75	17.77	17.78	19
20	64QAM	50	0	17.74	17.79	17.74	
20	64QAM	50	24	17.78	17.74	17.70	
20	64QAM	50	50	17.65	17.72	17.59	
20	64QAM	100	0	17.57	17.75	17.61	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.79	19.88	19.85	21
15	QPSK	1	37	19.55	19.63	19.52	
15	QPSK	1	74	19.67	19.64	19.46	
15	QPSK	36	0	19.10	19.11	19.13	
15	QPSK	36	20	18.96	18.97	18.83	20
15	QPSK	36	39	18.93	18.86	18.79	
15	QPSK	75	0	18.96	18.99	18.86	
15	16QAM	1	0	18.86	18.87	18.75	
15	16QAM	1	37	18.76	18.79	18.83	20
15	16QAM	1	74	18.68	18.72	18.69	
15	16QAM	36	0	17.73	17.80	17.61	
15	16QAM	36	20	17.81	17.76	17.78	
15	16QAM	36	39	17.63	17.68	17.61	19
15	16QAM	75	0	17.72	17.73	17.67	
15	64QAM	1	0	17.77	17.84	17.75	
15	64QAM	1	37	17.59	17.67	17.70	
15	64QAM	1	74	17.66	17.68	17.69	19
15	64QAM	36	0	17.65	17.70	17.65	
15	64QAM	36	20	17.69	17.65	17.61	
15	64QAM	36	39	17.56	17.63	17.50	
15	64QAM	75	0	17.48	17.66	17.52	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.74	19.79	19.57	21
10	QPSK	1	25	19.43	19.51	19.40	
10	QPSK	1	49	19.55	19.52	19.34	
10	QPSK	25	0	18.98	19.03	19.01	
10	QPSK	25	12	18.84	18.85	18.71	20
10	QPSK	25	25	18.81	18.74	18.67	
10	QPSK	50	0	18.84	18.87	18.74	
10	16QAM	1	0	18.74	18.75	18.63	
10	16QAM	1	25	18.64	18.67	18.71	20
10	16QAM	1	49	18.56	18.60	18.57	
10	16QAM	25	0	17.61	17.68	17.49	
10	16QAM	25	12	17.69	17.64	17.66	
10	16QAM	25	25	17.51	17.56	17.49	19
10	16QAM	50	0	17.60	17.61	17.55	
10	64QAM	1	0	17.65	17.72	17.63	
10	64QAM	1	25	17.47	17.55	17.58	
10	64QAM	1	49	17.54	17.56	17.57	19
10	64QAM	25	0	17.53	17.58	17.53	
10	64QAM	25	12	17.57	17.53	17.49	
10	64QAM	25	25	17.44	17.51	17.38	
10	64QAM	50	0	17.36	17.54	17.40	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.45	19.49	19.48	21
5	QPSK	1	12	19.34	19.42	19.31	
5	QPSK	1	24	19.46	19.43	19.25	
5	QPSK	12	0	18.89	18.94	18.92	
5	QPSK	12	7	18.75	18.76	18.62	20
5	QPSK	12	13	18.72	18.65	18.58	
5	QPSK	25	0	18.75	18.78	18.65	
5	16QAM	1	0	18.65	18.66	18.54	
5	16QAM	1	12	18.55	18.58	18.62	20
5	16QAM	1	24	18.47	18.51	18.48	
5	16QAM	12	0	17.52	17.59	17.40	
5	16QAM	12	7	17.60	17.55	17.57	
5	16QAM	12	13	17.42	17.47	17.40	19
5	16QAM	25	0	17.51	17.52	17.46	
5	64QAM	1	0	17.56	17.63	17.54	
5	64QAM	1	12	17.38	17.46	17.49	
5	64QAM	1	24	17.45	17.47	17.48	19
5	64QAM	12	0	17.44	17.49	17.44	
5	64QAM	12	7	17.48	17.44	17.40	
5	64QAM	12	13	17.35	17.42	17.29	
5	64QAM	25	0	17.27	17.45	17.31	

Reduced Power Level 2

5GHz WLAN ANT 4

5.3GHz WLAN ANT 4	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	18.15	19.00	16.00	96.53
		CH 60	5300	17.21	18.00	15.00	96.53
		CH 64	5320	14.20	15.00	12.00	97.20
	802.11n-HT20 MCS0	CH 52	5260	18.33	19.00	16.00	96.30
		CH 60	5300	17.07	18.00	15.00	96.30
		CH 64	5320	14.09	15.00	12.00	96.30
	802.11n-HT40 MCS0	CH 54	5270	15.53	16.50	13.50	92.86
		CH 62	5310	12.64	13.50	10.50	92.86
	802.11ac-VHT20 MCS0	CH 52	5260	18.40	19.50	16.00	97.06
		CH 60	5300	17.07	18.00	15.00	96.32
		CH 64	5320	14.09	15.00	12.00	97.06
	802.11ac-VHT40 MCS0	CH 54	5270	15.53	16.50	13.50	92.86
		CH 62	5310	12.65	13.50	10.50	94.29
	802.11ac-VHT80 MCS0	CH 58	5290	11.54	12.50	9.50	89.19

Reduced Power Level 3 for ANT 0

Band		WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		1312	1413	1513	
Rx Channel		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	22.42	22.50	22.46	23.50
3GPP Rel 5	HSDPA Subtest-1	22.42	22.30	22.23	23.50
3GPP Rel 5	HSDPA Subtest-2	22.41	22.45	22.20	23.50
3GPP Rel 5	HSDPA Subtest-3	21.95	21.94	22.00	23.00
3GPP Rel 5	HSDPA Subtest-4	21.92	21.94	21.69	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.44	22.37	22.22	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.40	22.36	22.20	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.86	21.83	21.66	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.86	21.82	21.64	22.50
3GPP Rel 6	HSUPA Subtest-1	21.88	21.90	21.68	22.50
3GPP Rel 6	HSUPA Subtest-2	22.41	22.33	22.17	23.50
3GPP Rel 6	HSUPA Subtest-3	21.45	21.39	21.24	22.00
3GPP Rel 6	HSUPA Subtest-4	22.41	22.34	22.17	23.50
3GPP Rel 6	HSUPA Subtest-5	21.38	21.35	21.15	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.43	21.36	21.23	22.00
Attenuator		Cable Loss			0.8
Mode		Max.			22.50

Band 4 (AWS Band) (dBm) 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	22.5
20	QPSK	1	0	21.70	21.68	21.64	
20	QPSK	1	49	21.66	21.67	21.68	
20	QPSK	1	99	21.58	21.60	21.63	
20	QPSK	50	0	20.74	20.70	20.74	
20	QPSK	50	24	20.44	20.47	20.48	21.5
20	QPSK	50	50	20.41	20.44	20.50	
20	QPSK	100	0	20.38	20.47	20.42	
20	16QAM	1	0	20.37	20.62	20.68	
20	16QAM	1	49	20.62	20.68	20.53	
20	16QAM	1	99	20.69	20.68	20.79	21.5
20	16QAM	50	0	19.75	19.71	19.76	
20	16QAM	50	24	19.78	19.67	19.71	
20	16QAM	50	50	19.83	19.69	19.70	
20	16QAM	100	0	19.75	19.74	19.72	
20	64QAM	1	0	19.87	19.81	19.85	20.5
20	64QAM	1	49	19.67	19.69	19.85	
20	64QAM	1	99	19.77	19.78	19.89	
20	64QAM	50	0	19.69	19.66	19.67	
20	64QAM	50	24	19.68	19.70	19.83	
20	64QAM	50	50	19.72	19.69	19.87	20.5
20	64QAM	100	0	19.70	19.67	19.78	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	21.76	21.79	21.75	22.5
15	QPSK	1	37	21.60	21.61	21.62	
15	QPSK	1	74	21.52	21.54	21.57	
15	QPSK	36	0	20.83	20.90	20.94	
15	QPSK	36	20	20.64	20.67	20.68	
15	QPSK	36	39	20.61	20.64	20.70	21.5
15	QPSK	75	0	20.58	20.67	20.62	
15	16QAM	1	0	20.31	20.56	20.62	
15	16QAM	1	37	20.56	20.62	20.47	
15	16QAM	1	74	20.63	20.62	20.73	
15	16QAM	36	0	19.69	19.65	19.70	20.5
15	16QAM	36	20	19.72	19.61	19.65	
15	16QAM	36	39	19.77	19.63	19.64	
15	16QAM	75	0	19.69	19.68	19.66	
15	64QAM	1	0	19.81	19.75	19.79	
15	64QAM	1	37	19.61	19.63	19.79	20.5
15	64QAM	1	74	19.71	19.72	19.83	
15	64QAM	36	0	19.63	19.60	19.61	
15	64QAM	36	20	19.62	19.64	19.77	
15	64QAM	36	39	19.66	19.63	19.81	
15	64QAM	75	0	19.64	19.61	19.72	Tune-up limit (dBm)
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	21.72	21.75	21.71	
10	QPSK	1	25	21.56	21.57	21.58	22.5
10	QPSK	1	49	21.48	21.50	21.53	
10	QPSK	25	0	20.79	20.86	20.90	
10	QPSK	25	12	20.60	20.63	20.64	
10	QPSK	25	25	20.57	20.60	20.66	21.5
10	QPSK	50	0	20.54	20.63	20.58	
10	16QAM	1	0	20.27	20.52	20.58	
10	16QAM	1	25	20.52	20.58	20.43	
10	16QAM	1	49	20.59	20.58	20.69	
10	16QAM	25	0	19.65	19.61	19.66	20.5
10	16QAM	25	12	19.68	19.57	19.61	
10	16QAM	25	25	19.73	19.59	19.60	
10	16QAM	50	0	19.65	19.64	19.62	
10	64QAM	1	0	19.77	19.71	19.75	
10	64QAM	1	25	19.57	19.59	19.75	20.5
10	64QAM	1	49	19.67	19.68	19.79	
10	64QAM	25	0	19.59	19.56	19.57	
10	64QAM	25	12	19.58	19.60	19.73	
10	64QAM	25	25	19.62	19.59	19.77	
10	64QAM	50	0	19.60	19.57	19.68	Tune-up limit (dBm)
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	21.67	21.70	21.66	
5	QPSK	1	12	21.51	21.52	21.53	22.5
5	QPSK	1	24	21.43	21.45	21.48	
5	QPSK	12	0	20.74	20.81	20.85	
5	QPSK	12	7	20.55	20.58	20.59	
5	QPSK	12	13	20.52	20.55	20.61	21.5
5	QPSK	25	0	20.49	20.58	20.53	
5	16QAM	1	0	20.22	20.47	20.53	
5	16QAM	1	12	20.47	20.53	20.38	
5	16QAM	1	24	20.54	20.53	20.64	
5	16QAM	12	0	19.60	19.56	19.61	20.5
5	16QAM	12	7	19.63	19.52	19.56	
5	16QAM	12	13	19.68	19.54	19.55	
5	16QAM	25	0	19.60	19.59	19.57	
5	64QAM	1	0	19.72	19.66	19.70	
5	64QAM	1	12	19.52	19.54	19.70	20.5
5	64QAM	1	24	19.62	19.63	19.74	
5	64QAM	12	0	19.54	19.51	19.52	
5	64QAM	12	7	19.53	19.55	19.68	
5	64QAM	12	13	19.57	19.54	19.72	
5	64QAM	25	0	19.55	19.52	19.63	Tune-up limit (dBm)
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)
3	QPSK	1	0	21.62	21.65	21.61	
3	QPSK	1	8	21.46	21.47	21.48	22.5
3	QPSK	1	14	21.38	21.40	21.43	
3	QPSK	8	0	20.69	20.76	20.80	
3	QPSK	8	4	20.50	20.53	20.54	
3	QPSK	8	7	20.47	20.50	20.56	21.5
3	QPSK	15	0	20.44	20.53	20.48	
3	16QAM	1	0	20.17	20.42	20.48	
3	16QAM	1	8	20.42	20.48	20.33	
3	16QAM	1	14	20.49	20.48	20.50	
3	16QAM	8	0	19.55	19.51	19.56	20.5
3	16QAM	8	4	19.58	19.47	19.51	
3	16QAM	8	7	19.63	19.49	19.50	
3	16QAM	15	0	19.55	19.54	19.52	
3	64QAM	1	0	19.67	19.61	19.65	
3	64QAM	1	8	19.47	19.49	19.65	20.5
3	64QAM	1	14	19.57	19.58	19.69	
3	64QAM	8	0	19.49	19.46	19.47	
3	64QAM	8	4	19.48	19.50	19.63	

Band 7 (2600MHz Band) (dBm)							
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	21.73	21.70	21.68	22.5
20	QPSK	1	49	21.71	21.72	21.65	
20	QPSK	1	99	21.63	21.65	21.50	
20	QPSK	50	0	20.85	20.76	20.84	21.5
20	QPSK	50	24	20.79	20.82	20.83	
20	QPSK	50	50	20.76	20.79	20.85	
20	QPSK	100	0	20.73	20.82	20.77	21.5
20	16QAM	1	0	20.46	20.71	20.77	
20	16QAM	1	49	20.71	20.77	20.62	
20	16QAM	1	99	20.78	20.77	20.88	20.5
20	16QAM	50	0	19.84	19.80	19.85	
20	16QAM	50	24	19.87	19.76	19.80	
20	16QAM	50	50	19.92	19.78	19.79	20.5
20	16QAM	100	0	19.84	19.83	19.81	
20	64QAM	1	0	19.96	19.90	19.94	
20	64QAM	1	49	19.76	19.78	19.94	20.5
20	64QAM	1	99	19.86	19.87	19.98	
20	64QAM	50	0	19.78	19.75	19.76	
20	64QAM	50	24	19.77	19.79	19.92	21.5
20	64QAM	50	50	19.81	19.78	19.96	
20	64QAM	100	0	19.79	19.76	19.87	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	21.60	21.62	21.57	22.5
15	QPSK	1	37	21.55	21.56	21.57	
15	QPSK	1	74	21.47	21.49	21.52	
15	QPSK	36	0	20.69	20.60	20.68	21.5
15	QPSK	36	20	20.63	20.66	20.67	
15	QPSK	36	39	20.60	20.63	20.69	
15	QPSK	75	0	20.57	20.66	20.61	21.5
15	16QAM	1	0	20.30	20.55	20.61	
15	16QAM	1	37	20.55	20.61	20.46	
15	16QAM	1	74	20.62	20.61	20.72	20.5
15	16QAM	36	0	19.68	19.64	19.69	
15	16QAM	36	20	19.71	19.60	19.64	
15	16QAM	36	39	19.76	19.62	19.63	20.5
15	16QAM	75	0	19.68	19.67	19.65	
15	64QAM	1	0	19.80	19.74	19.78	
15	64QAM	1	37	19.60	19.62	19.78	20.5
15	64QAM	1	74	19.70	19.71	19.82	
15	64QAM	36	0	19.62	19.59	19.60	21.5
15	64QAM	36	20	19.61	19.63	19.76	
15	64QAM	36	39	19.65	19.62	19.80	
15	64QAM	75	0	19.63	19.60	19.71	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	21.54	21.56	21.51	22.5
10	QPSK	1	25	21.49	21.50	21.51	
10	QPSK	1	49	21.41	21.43	21.46	
10	QPSK	25	0	20.63	20.54	20.62	21.5
10	QPSK	25	12	20.57	20.60	20.61	
10	QPSK	25	25	20.54	20.57	20.63	
10	QPSK	50	0	20.51	20.60	20.55	21.5
10	16QAM	1	0	20.46	20.49	20.55	
10	16QAM	1	25	20.49	20.55	20.40	
10	16QAM	1	49	20.56	20.55	20.66	20.5
10	16QAM	25	0	19.62	19.58	19.63	
10	16QAM	25	12	19.65	19.54	19.58	
10	16QAM	25	25	19.70	19.56	19.57	21.5
10	16QAM	50	0	19.62	19.61	19.59	
10	64QAM	1	0	19.74	19.68	19.72	
10	64QAM	1	25	19.54	19.56	19.72	20.5
10	64QAM	1	49	19.64	19.65	19.76	
10	64QAM	25	0	19.56	19.53	19.54	
10	64QAM	25	12	19.55	19.57	19.70	21.5
10	64QAM	25	25	19.59	19.56	19.74	
10	64QAM	50	0	19.57	19.54	19.65	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	21.48	21.50	21.45	22.5
5	QPSK	1	12	21.43	21.44	21.45	
5	QPSK	1	24	21.35	21.37	21.40	
5	QPSK	12	0	20.57	20.48	20.56	21.5
5	QPSK	12	7	20.51	20.54	20.55	
5	QPSK	12	13	20.48	20.51	20.57	
5	QPSK	25	0	20.45	20.54	20.49	21.5
5	16QAM	1	0	20.26	20.43	20.49	
5	16QAM	1	12	20.43	20.49	20.34	
5	16QAM	1	24	20.50	20.49	20.60	20.5
5	16QAM	12	0	19.56	19.52	19.57	
5	16QAM	12	7	19.59	19.48	19.52	
5	16QAM	12	13	19.64	19.50	19.51	20.5
5	16QAM	25	0	19.56	19.55	19.53	
5	64QAM	1	0	19.68	19.62	19.66	
5	64QAM	1	12	19.48	19.50	19.66	20.5
5	64QAM	1	24	19.58	19.59	19.70	
5	64QAM	12	0	19.52	19.57	19.55	
5	64QAM	12	7	19.55	19.51	19.64	21.5
5	64QAM	12	13	19.53	19.52	19.68	
5	64QAM	25	0	19.51	19.50	19.59	

3	64QAM	8	7	19.52	19.49	19.67	20.5
3	64QAM	15	0	19.50	19.47	19.58	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	Tune-up limit (dBm)
1.4	QPSK	1	0	21.57	21.60	21.56	
1.4	QPSK	1	3	21.41	21.42	21.43	
1.4	QPSK	1	5	21.33	21.35	21.38	22.5
1.4	QPSK	3	0	20.64	20.71	20.75	
1.4	QPSK	3	1	20.45	20.48	20.49	
1.4	QPSK	3	3	20.42	20.45	20.51	
1.4	QPSK	6	0	20.39	20.48	20.43	
1.4	16QAM	1	0	20.12	20.37	20.43	
1.4	16QAM	1	3	20.37	20.43	20.28	21.5
1.4	16QAM	1	5	20.44	20.43	20.54	
1.4	16QAM	3	0	19.50	19.46	19.51	
1.4	16QAM	3	1	19.53	19.42	19.46	
1.4	16QAM	3	3	19.58	19.44	19.45	
1.4	16QAM	6	0	19.50	19.49	19.47	
1.4	64QAM	1	0	19.62	19.56	19.60	20.5
1.4	64QAM	1	3	19.42	19.44	19.60	
1.4	64QAM	1	5	19.52	19.53	19.64	
1.4	64QAM	3	0	19.44	19.41	19.42	
1.4	64QAM	3	1	19.43	19.45	19.58	
1.4	64QAM	3	3	19.47	19.44	19.62	
1.4	64QAM	6	0	19.45	19.42	19.53	20.5

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132332	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.25	22.26	22.24	23.5
20	QPSK	1	49	22.06	22.18	22.03	
20	QPSK	1	99	22.14	22.14	22.11	
20	QPSK	50	0	21.80	21.85	21.73	22.5
20	QPSK	50	24	21.61	21.69	21.68	
20	QPSK	50	50	21.70	21.65	21.67	
20	QPSK	100	0	21.66	21.71	21.68	23
20	16QAM	1	0	21.96	21.91	21.93	
20	16QAM	1	49	21.83	21.92	21.69	
20	16QAM	1	99	21.77	21.84	21.92	21.5
20	16QAM	50	0	20.63	20.56	20.55	
20	16QAM	50	24	20.75	20.70	20.58	
20	16QAM	50	50	20.68	20.67	20.64	22
20	16QAM	100	0	20.69	20.66	20.56	
20	64QAM	1	0	20.92	20.89	20.90	
20	64QAM	1	49	20.80	20.90	20.64	21.5
20	64QAM	1	99	20.71	20.84	20.85	
20	64QAM	50	0	20.60	20.55	20.55	
20	64QAM	50	24	20.67	20.65	20.57	21.5
20	64QAM	50	50	20.60	20.61	20.61	
20	64QAM	100	0	20.71	20.60	20.49	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.13	22.12	22.10	23.5
15	QPSK	1	37	21.99	22.11	21.96	
15	QPSK	1	74	22.07	22.07	22.04	
15	QPSK	36	0	21.73	21.78	21.66	22.5
15	QPSK	36	20	21.54	21.62	21.61	
15	QPSK	36	39	21.63	21.58	21.60	
15	QPSK	75	0	21.59	21.64	21.61	23
15	16QAM	1	0	21.89	21.84	21.86	
15	16QAM	1	37	21.76	21.85	21.62	
15	16QAM	1	74	21.70	21.77	21.85	21.5
15	16QAM	36	0	20.56	20.49	20.48	
15	16QAM	36	20	20.68	20.63	20.51	
15	16QAM	36	39	20.61	20.60	20.57	22
15	16QAM	75	0	20.62	20.59	20.49	
15	64QAM	1	0	20.85	20.82	20.83	
15	64QAM	1	37	20.73	20.83	20.57	21.5
15	64QAM	1	74	20.64	20.77	20.78	
15	64QAM	36	0	20.53	20.48	20.48	
15	64QAM	36	20	20.60	20.58	20.50	21.5
15	64QAM	36	39	20.53	20.54	20.54	
15	64QAM	75	0	20.64	20.53	20.42	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.06	22.05	22.03	23.5
10	QPSK	1	25	21.92	22.04	21.89	
10	QPSK	1	49	22.00	22.00	21.97	
10	QPSK	25	0	21.66	21.71	21.59	22.5
10	QPSK	25	12	21.50	21.55	21.54	
10	QPSK	25	25	21.56	21.51	21.53	
10	QPSK	50	0	21.52	21.57	21.54	23
10	16QAM	1	0	21.82	21.77	21.79	
10	16QAM	1	25	21.69	21.78	21.55	
10	16QAM	1	49	21.63	21.70	21.78	21.5
10	16QAM	25	0	20.49	20.42	20.41	
10	16QAM	25	12	20.61	20.56	20.44	
10	16QAM	25	25	20.54	20.53	20.50	22
10	16QAM	50	0	20.55	20.52	20.42	
10	64QAM	1	0	20.78	20.75	20.76	
10	64QAM	1	25	20.66	20.76	20.50	21.5
10	64QAM	1	49	20.57	20.70	20.71	
10	64QAM	25	0	20.46	20.41	20.41	
10	64QAM	25	12	20.53	20.51	20.43	21.5
10	64QAM	25	25	20.46	20.47	20.47	
10	64QAM	50	0	20.57	20.46	20.35	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.99	21.98	21.96	23.5
5	QPSK	1	12	21.85	21.97	21.82	
5	QPSK	1	24	21.93	21.93	21.90	
5	QPSK	12	0	21.59	21.64	21.52	22.5
5	QPSK	12	7	21.40	21.48	21.47	
5	QPSK	12	13	21.49	21.44	21.46	
5	QPSK	25	0	21.45	21.50	21.47	23
5	16QAM	1	0	21.75	21.70	21.72	
5	16QAM	1	12	21.62	21.71	21.48	
5	16QAM	1	24	21.56	21.63	21.71	21.5
5	16QAM	12	0	20.42	20.35	20.34	
5	16QAM	12	7	20.54	20.49	20.37	
5	16QAM	12	13	20.47	20.46	20.43	22
5	16QAM	25	0	20.48	20.45	20.35	
5	64QAM	1	0	20.71	20.68	20.69	
5	64QAM	1	12	20.59	20.69	20.43	21.5
5	64QAM	1	24	20.50	20.63	20.64	
5	64QAM	12	0	20.39	20.34	20.34	
5	64QAM	12	7	20.46	20.44	20.36	21.5
5	64QAM	12	13	20.39	20.40	20.40	
5	64QAM	25	0	20.50	20.39	20.28	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.92	21.91	21.89	23.5
3	QPSK	1	8	21.78	21.90	21.75	
3	QPSK	1	14	21.86	21.86	21.83	
3	QPSK	8	0	21.42	21.47	21.35	22.5
3	QPSK	8	4	21.23	21.31	21.30	
3	QPSK	8	7	21.32	21.27	21.29	
3	QPSK	15	0	21.28	21.33	21.30	23
3	16QAM	1	0	21.58	21.53	21.55	
3	16QAM	1	8	21.45	21.54	21.31	
3	16QAM	1	14	21.39	21.46	21.54	21.5
3	16QAM	8	0	20.25	20.18	20.17	
3	16QAM	8	4	20.37	20.32	20.20	
3	16QAM	8	7	20.30	20.29	20.26	22
3	16QAM	15	0	20.31	20.28	20.18	
3	64QAM	1	0	20.54	20.51	20.52	
3	64QAM	1	8	20.42	20.52	20.26	21.5
3	64QAM	1	14	20.33	20.46	20.47	
3	64QAM	8	0	20.22	20.17	20.17	
3	64QAM	8	4	20.29	20.27	20.19	21.5

3	64QAM	8	7	20.22	20.23	20.23	21.5
3	64QAM	15	0	20.33	20.22	20.11	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	Tune-up limit (dBm)
1.4	QPSK	1	0	21.85	21.84	21.82	
1.4	QPSK	1	3	21.71	21.83	21.68	
1.4	QPSK	1	5	21.79	21.79	21.76	23.5
1.4	QPSK	3	0	21.07	21.12	21.00	
1.4	QPSK	3	1	20.88	20.96	20.95	
1.4	QPSK	3	3	20.97	20.92	20.94	
1.4	QPSK	6	0	20.93	20.98	20.95	
1.4	16QAM	1	0	21.01	20.96	20.98	23
1.4	16QAM	1	3	20.88	20.97	20.74	
1.4	16QAM	1	5	20.82	20.89	20.97	21.5
1.4	16QAM	3	0	19.90	19.83	19.82	
1.4	16QAM	3	1	20.02	19.97	19.85	
1.4	16QAM	3	3	19.95	19.94	19.91	
1.4	16QAM	6	0	19.96	19.93	19.83	
1.4	64QAM	1	0	20.19	20.16	20.17	22
1.4	64QAM	1	3	20.07	20.17	19.91	
1.4	64QAM	1	5	19.98	20.11	20.12	21.5
1.4	64QAM	3	0	19.87	19.82	19.82	
1.4	64QAM	3	1	19.94	19.92	19.84	
1.4	64QAM	3	3	19.87	19.88	19.88	
1.4	64QAM	6	0	19.98	19.87	19.76	

Reduced Power Level 4 for ANT 1

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		
	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8	30.00	19.80	19.83	19.75	21.00	0.33
GSM 1 Tx slot	28.80	28.83	28.75	30.00	19.70	19.81	19.50	21.00	0.30
GPRS 1 Tx slot	28.70	28.81	28.50	30.00	20.04	20.10	19.80	21.00	0.06
GPRS 2 Tx slots	26.04	26.10	25.80	27.00	20.40	20.44	20.38	21.24	0.06
GPRS 3 Tx slots	24.66	24.70	24.64	25.50	20.54	20.58	20.60	21.50	0.06
GPRS 4 Tx slots	23.54	23.58	23.60	24.50	15.90	15.97	15.93	17.00	0.07
EDGE 1 Tx slot	24.90	24.97	24.93	26.00	16.62	16.67	16.63	17.50	0.05
EDGE 2 Tx slots	22.62	22.67	22.63	23.50	17.27	17.41	17.33	18.24	0.14
EDGE 3 Tx slots	21.53	21.67	21.59	22.50	16.79	16.95	16.87	18.00	0.16
EDGE 4 Tx slots	19.79	19.95	19.87	21.00					
Mode		Max.	28.83			Max.	20.60		
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
	9662	9800	9938		1537	1638	1738	
TX Channel	1852.4	1880	1907.6		1712.4	1732.6	1752.6	
Rx Channel								
Frequency (MHz)								
3GPP Rel 99 RMC 12.2kbps	19.30	19.38	19.35	20.50	21.92	22.00	21.96	23.00
3GPP Rel 5 HSDPA Subtest-1	18.93	18.80	18.71	19.50	21.92	21.80	21.73	23.00
3GPP Rel 5 HSDPA Subtest-2	18.86	18.76	18.70	19.50	21.91	21.95	21.70	23.00
3GPP Rel 5 HSDPA Subtest-3	18.69	18.58	18.50	19.50	21.45	21.44	21.50	22.50
3GPP Rel 5 HSDPA Subtest-4	18.66	18.55	18.49	19.50	21.42	21.44	21.19	22.50
3GPP Rel 8 DC-HSDPA Subtest-1	19.28	19.17	19.11	20.00	21.94	21.87	21.72	23.00
3GPP Rel 8 DC-HSDPA Subtest-2	19.21	19.15	19.13	20.00	21.90	21.86	21.70	23.00
3GPP Rel 8 DC-HSDPA Subtest-3	18.66	18.61	18.64	19.50	21.36	21.33	21.16	22.50
3GPP Rel 8 DC-HSDPA Subtest-4	18.66	18.59	18.61	19.50	21.36	21.32	21.14	22.50
3GPP Rel 6 HSUPA Subtest-1	18.65	18.58	18.45	19.50	21.38	21.40	21.18	22.50
3GPP Rel 6 HSUPA Subtest-2	19.18	19.08	19.00	20.00	21.91	21.83	21.67	22.50
3GPP Rel 6 HSUPA Subtest-3	18.18	18.09	17.99	19.00	20.95	20.89	20.74	22.00
3GPP Rel 6 HSUPA Subtest-4	19.17	19.06	19.00	20.00	21.91	21.84	21.67	22.50
3GPP Rel 6 HSUPA Subtest-5	18.16	18.06	17.97	19.00	20.88	20.85	20.65	21.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	18.23	18.10	18.00	19.00	20.93	20.86	20.73	21.50
Attenuator		Cable Loss	0.8			Cable Loss	0.8	
Mode		Max.	19.38			Max.	22.00	

Band 2 (1900MHz Band) (dBm) 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	19.48	19.55	19.46	20.5
20	QPSK	1	49	19.44	19.46	19.39	
20	QPSK	1	99	19.36	19.43	19.40	
20	QPSK	50	0	18.58	18.65	18.60	
20	QPSK	50	24	18.54	18.48	18.46	19.5
20	QPSK	50	50	18.51	18.54	18.47	
20	QPSK	100	0	18.54	18.55	18.44	
20	16QAM	1	0	18.81	18.72	18.55	
20	16QAM	1	49	18.69	18.78	18.73	19.5
20	16QAM	1	99	18.79	18.56	18.83	
20	16QAM	50	0	17.50	17.45	17.49	
20	16QAM	50	24	17.71	17.56	17.55	
20	16QAM	50	50	17.58	17.61	17.63	18.5
20	16QAM	100	0	17.56	17.58	17.54	
20	64QAM	1	0	17.66	17.80	17.75	
20	64QAM	1	49	17.69	17.73	17.63	
20	64QAM	1	99	17.79	17.67	17.49	18.5
20	64QAM	50	0	17.64	17.53	17.53	
20	64QAM	50	24	17.47	17.48	17.55	
20	64QAM	50	50	17.60	17.53	17.58	
20	64QAM	100	0	17.52	17.55	17.54	
Channel				1867.5	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	19.35	19.37	19.40	20.5
15	QPSK	1	37	19.23	19.25	19.18	
15	QPSK	1	74	19.15	19.22	19.19	
15	QPSK	36	0	18.51	18.58	18.53	
15	QPSK	36	20	18.47	18.41	18.39	19.5
15	QPSK	36	39	18.44	18.47	18.40	
15	QPSK	75	0	18.47	18.48	18.37	
15	16QAM	1	0	18.74	18.65	18.48	
15	16QAM	1	37	18.62	18.71	18.66	19.5
15	16QAM	1	74	18.72	18.49	18.76	
15	16QAM	36	0	17.43	17.38	17.42	
15	16QAM	36	20	17.64	17.49	17.48	
15	16QAM	36	39	17.51	17.54	17.56	18.5
15	16QAM	75	0	17.49	17.51	17.47	
15	64QAM	1	0	17.59	17.73	17.68	
15	64QAM	1	37	17.62	17.66	17.56	
15	64QAM	1	74	17.72	17.60	17.42	18.5
15	64QAM	36	0	17.57	17.46	17.46	
15	64QAM	36	20	17.40	17.41	17.48	
15	64QAM	36	39	17.53	17.46	17.51	
15	64QAM	75	0	17.45	17.48	17.47	
Channel				18550	18900	19150	
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)
10	QPSK	1	0	19.28	19.30	19.33	20.5
10	QPSK	1	25	19.16	19.18	19.11	
10	QPSK	1	49	19.08	19.15	19.12	
10	QPSK	25	0	18.44	18.51	18.46	
10	QPSK	25	12	18.40	18.34	18.32	19.5
10	QPSK	25	25	18.37	18.40	18.33	
10	QPSK	50	0	18.40	18.41	18.30	
10	16QAM	1	0	18.67	18.58	18.41	
10	16QAM	1	25	18.55	18.64	18.59	19.5
10	16QAM	1	49	18.65	18.42	18.69	
10	16QAM	25	0	17.36	17.31	17.35	
10	16QAM	25	12	17.57	17.42	17.41	
10	16QAM	25	25	17.44	17.47	17.49	18.5
10	16QAM	50	0	17.42	17.44	17.40	
10	64QAM	1	0	17.52	17.66	17.61	
10	64QAM	1	25	17.55	17.59	17.49	
10	64QAM	1	49	17.65	17.53	17.35	18.5
10	64QAM	25	0	17.50	17.39	17.39	
10	64QAM	25	12	17.33	17.34	17.41	
10	64QAM	25	25	17.46	17.39	17.44	
10	64QAM	50	0	17.38	17.41	17.40	
Channel				1862.5	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	19.21	19.23	19.26	20.5
5	QPSK	1	12	19.09	19.11	19.04	
5	QPSK	1	24	19.01	19.08	19.05	
5	QPSK	12	0	18.37	18.44	18.39	
5	QPSK	12	7	18.33	18.27	18.25	19.5
5	QPSK	12	13	18.30	18.33	18.26	
5	QPSK	25	0	18.33	18.34	18.23	
5	16QAM	1	0	18.60	18.51	18.34	
5	16QAM	1	12	18.48	18.57	18.52	19.5
5	16QAM	1	24	18.58	18.35	18.62	
5	16QAM	12	0	17.35	17.30	17.34	
5	16QAM	12	7	17.56	17.41	17.40	
5	16QAM	12	13	17.43	17.46	17.48	18.5
5	16QAM	25	0	17.41	17.43	17.39	
5	64QAM	1	0	17.45	17.59	17.54	
5	64QAM	1	12	17.48	17.52	17.42	
5	64QAM	1	24	17.58	17.46	17.44	18.5
5	64QAM	12	0	17.49	17.38	17.38	
5	64QAM	12	7	17.32	17.33	17.40	
5	64QAM	12	13	17.45	17.38	17.43	
5	64QAM	25	0	17.37	17.40	17.39	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	Tune-up limit (dBm)
3	QPSK	1	0	19.14	19.16	19.19	20.5
3	QPSK	1	8	19.02	19.04	18.97	
3	QPSK	1	14	18.94	19.01	18.98	
3	QPSK	8	0	18.30	18.37	18.32	
3	QPSK	8	4	18.26	18.20	18.18	19.5
3	QPSK	8	7	18.23	18.26	18.19	
3	QPSK	15	0	18.26	18.27	18.16	
3	16QAM	1	0	18.43	18.44	18.27	
3	16QAM	1	8	18.41	18.41	18.45	19.5
3	16QAM	1	14	18.43	18.41	18.44	
3	16QAM	8	0	17.22	17.17	17.21	
3	16QAM	8	4	17.43	17.28	17.27	
3	16QAM	8	7	17.30	17.33	17.35	18.5
3	16QAM	15	0	17.28	17.30	17.26	
3	64QAM	1	0	17.38	17.52	17.47	
3	64QAM	1	8	17.41	17.45	17.35	
3	64QAM	1	14	17.51	17.39	17.21	18.5
3	64QAM	8	0	17.36	17.25	17.25	
3	64QAM	8	4	17.19	17.20	17.27	
3	64QAM	8	7	17.32	17.25	17.30	
3	64QAM	15	0	17.24	17.27	17.26	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	Tune-up limit (dBm)

Band 4 (AWS Band) (dBm) 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	21.20	21.18	21.14	22.5
20	QPSK	1	49	21.16	21.17	21.18	
20	QPSK	1	99	21.08	21.10	21.13	
20	QPSK	50	0	20.50	20.46	20.44	
20	QPSK	50	24	20.20	20.23	20.24	21.5
20	QPSK	50	50	20.17	20.20	20.26	
20	QPSK	100	0	20.14	20.23	20.18	
20	16QAM	1	0	19.87	20.12	20.18	
20	16QAM	1	49	20.12	20.18	20.03	21.5
20	16QAM	1	99	20.19	20.18	20.29	
20	16QAM	50	0	19.25	19.21	19.26	
20	16QAM	50	24	19.28	19.17	19.21	
20	16QAM	50	50	19.33	19.19	19.20	20.5
20	16QAM	100	0	19.25	19.24	19.22	
20	64QAM	1	0	19.37	19.31	19.35	
20	64QAM	1	49	19.17	19.19	19.35	
20	64QAM	1	99	19.27	19.28	19.39	20.5
20	64QAM	50	0	19.19	19.16	19.17	
20	64QAM	50	24	19.18	19.20	19.33	
20	64QAM	50	50	19.22	19.19	19.37	
20	64QAM	100	0	19.20	19.17	19.28	20
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	21.26	21.29	21.25	22.5
15	QPSK	1	37	21.10	21.11	21.12	
15	QPSK	1	74	21.02	21.04	21.07	
15	QPSK	36	0	20.33	20.40	20.44	
15	QPSK	36	20	20.14	20.17	20.18	21.5
15	QPSK	36	39	20.11	20.14	20.20	
15	QPSK	75	0	20.08	20.17	20.12	
15	16QAM	1	0	19.81	20.06	20.12	
15	16QAM	1	37	20.06	20.12	19.97	21.5
15	16QAM	1	74	20.13	20.12	20.23	
15	16QAM	36	0	19.19	19.15	19.20	
15	16QAM	36	20	19.22	19.11	19.15	
15	16QAM	36	39	19.27	19.13	19.14	20.5
15	16QAM	75	0	19.19	19.18	19.16	
15	16QAM	1	0	19.31	19.25	19.29	
15	16QAM	1	37	19.11	19.13	19.29	
15	16QAM	1	74	19.21	19.22	19.33	20.5
15	16QAM	36	0	19.13	19.10	19.11	
15	16QAM	36	20	19.12	19.14	19.27	
15	16QAM	36	39	19.16	19.13	19.31	
15	16QAM	75	0	19.14	19.11	19.22	20
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	21.22	21.25	21.21	22.5
10	QPSK	1	25	21.06	21.07	21.08	
10	QPSK	1	49	20.98	21.00	21.03	
10	QPSK	25	0	20.29	20.36	20.40	
10	QPSK	25	12	20.10	20.13	20.14	21.5
10	QPSK	25	25	20.07	20.10	20.16	
10	QPSK	50	0	20.04	20.13	20.08	
10	16QAM	1	0	20.04	20.02	20.08	
10	16QAM	1	25	20.02	20.08	19.93	21.5
10	16QAM	1	49	20.09	20.08	20.19	
10	16QAM	25	0	19.15	19.11	19.16	
10	16QAM	25	12	19.18	19.07	19.11	
10	16QAM	25	25	19.23	19.09	19.10	20.5
10	16QAM	50	0	19.15	19.14	19.12	
10	16QAM	1	0	19.27	19.21	19.25	
10	16QAM	1	25	19.07	19.09	19.25	
10	16QAM	1	49	19.17	19.18	19.29	20.5
10	16QAM	25	0	19.09	19.06	19.07	
10	16QAM	25	12	19.08	19.10	19.23	
10	16QAM	25	25	19.12	19.09	19.27	
10	16QAM	50	0	19.10	19.07	19.18	20
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	21.17	21.20	21.16	22.5
5	QPSK	1	12	21.01	21.02	21.03	
5	QPSK	1	24	20.93	20.95	20.98	
5	QPSK	12	0	20.24	20.31	20.35	
5	QPSK	12	7	20.05	20.08	20.09	21.5
5	QPSK	12	13	20.02	20.05	20.11	
5	QPSK	25	0	19.99	20.08	20.03	
5	16QAM	1	0	19.72	19.97	20.03	
5	16QAM	1	12	19.97	20.03	19.88	21.5
5	16QAM	1	24	20.04	20.03	20.14	
5	16QAM	12	0	19.10	19.06	19.11	
5	16QAM	12	7	19.13	19.02	19.06	
5	16QAM	12	13	19.18	19.04	19.05	20.5
5	16QAM	25	0	19.10	19.09	19.07	
5	64QAM	1	0	19.22	19.16	19.20	
5	64QAM	1	12	19.02	19.04	19.20	
5	64QAM	1	24	19.12	19.13	19.24	20.5
5	64QAM	12	0	19.04	19.01	19.02	
5	64QAM	12	7	19.03	19.05	19.18	
5	64QAM	12	13	19.07	19.04	19.22	
5	64QAM	25	0	19.05	19.02	19.13	20
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)
3	QPSK	1	0	21.12	21.15	21.11	22.5
3	QPSK	1	8	20.96	20.97	20.98	
3	QPSK	1	14	20.88	20.90	20.93	
3	QPSK	8	0	20.19	20.26	20.30	
3	QPSK	8	4	20.00	20.03	20.04	21.5
3	QPSK	8	7	19.97	20.00	20.06	
3	QPSK	15	0	19.94	20.03	19.98	
3	16QAM	1	0	19.67	19.92	19.98	
3	16QAM	1	8	19.92	19.98	19.83	21.5
3	16QAM	1	14	19.99	19.98	20.00	
3	16QAM	8	0	19.05	19.01	19.06	
3	16QAM	8	4	19.08	18.97	19.01	
3	16QAM	8	7	19.13	18.99	19.00	20.5
3	16QAM	15	0	19.05	19.04	19.02	
3	64QAM	1	0	19.17	19.11	19.15	
3	64QAM	1	8	18.97	18.99	19.15	
3	64QAM	1	14	19.07	19.08	19.19	20.5
3	64QAM	8	0	18.99	18.96	18.97	
3	64QAM	8	4	18.98	19.00	19.13	
3	64QAM	8	7	19.02	18.99	19.17	
3	64QAM	15	0	19.00	18.97	19.08	20
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	Tune-up limit (dBm)

1.4	QPSK	1	0	19.07	19.09	19.12	20.5
1.4	QPSK	1	3	18.95	18.97	18.90	
1.4	QPSK	1	5	18.87	18.94	18.91	
1.4	QPSK	3	0	18.23	18.30	18.25	
1.4	QPSK	3	1	18.19	18.13	18.11	
1.4	QPSK	3	3	18.16	18.19	18.12	
1.4	QPSK	6	0	18.19	18.20	18.09	19.5
1.4	16QAM	1	0	18.46	18.37	18.20	19.5
1.4	16QAM	1	3	18.34	18.43	18.38	
1.4	16QAM	1	5	18.36	18.21	18.35	
1.4	16QAM	3	0	17.15	17.10	17.14	
1.4	16QAM	3	1	17.36	17.21	17.20	
1.4	16QAM	3	3	17.23	17.26	17.28	
1.4	16QAM	6	0	17.21	17.23	17.19	18.5
1.4	64QAM	1	0	17.31	17.45	17.40	18.5
1.4	64QAM	1	3	17.34	17.38	17.28	
1.4	64QAM	1	5	17.44	17.32	17.14	
1.4	64QAM	3	0	17.29	17.18	17.18	
1.4	64QAM	3	1	17.12	17.13	17.20	
1.4	64QAM	3	3	17.25	17.18	17.23	
1.4	64QAM	6	0	17.17	17.20	17.19	18.5

1.4	QPSK	1	0	21.07	21.10	21.06	22.5
1.4	QPSK	1	3	20.91	20.92	20.93	
1.4	QPSK	1	5	20.83	20.85	20.88	
1.4	QPSK	3	0	20.14	20.21	20.25	
1.4	QPSK	3	1	19.95	19.98	19.99	
1.4	QPSK	3	3	19.92	19.95	20.01	
1.4	QPSK	6	0	19.89	19.98	19.93	21.5
1.4	16QAM	1	0	19.62	19.87	19.93	21.5
1.4	16QAM	1	3	19.87	19.93	19.78	
1.4	16QAM	1	5	19.94	19.93	20.04	
1.4	16QAM	3	0	19.00	18.96	19.01	
1.4	16QAM	3	1	19.03	18.92	18.96	
1.4	16QAM	3	3	19.08	18.94	18.95	
1.4	16QAM	6	0	19.00	18.99	18.97	20.5
1.4	64QAM	1	0	19.12	19.06	19.10	20.5
1.4	64QAM	1	3	18.92	18.94	19.10	
1.4	64QAM	1	5	19.02	19.03	19.14	
1.4	64QAM	3	0	18.94	18.91	18.92	
1.4	64QAM	3	1	18.93	18.95	19.08	
1.4	64QAM	3	3	18.97	18.94	19.12	
1.4	64QAM	6	0	18.95	18.92	19.03	20

Band 7 (2600MHz Band) (dBm) 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	20.83	20.74	20.76	21.5
20	QPSK	1	49	20.71	20.72	20.73	
20	QPSK	1	99	20.63	20.65	20.68	
20	QPSK	50	0	19.85	19.76	19.84	
20	QPSK	50	24	19.79	19.82	19.83	20.5
20	QPSK	50	50	19.76	19.79	19.85	
20	QPSK	100	0	19.73	19.82	19.77	
20	16QAM	1	0	19.46	19.71	19.77	
20	16QAM	1	49	19.71	19.77	19.62	20.5
20	16QAM	1	99	19.78	19.77	19.88	
20	16QAM	50	0	18.84	18.80	18.85	
20	16QAM	50	24	18.87	18.76	18.80	
20	16QAM	50	50	18.92	18.78	18.79	19.5
20	16QAM	100	0	18.84	18.83	18.81	
20	64QAM	1	0	18.96	18.90	18.94	
20	64QAM	1	49	18.76	18.78	18.94	
20	64QAM	1	99	18.86	18.87	18.98	19.5
20	64QAM	50	0	18.78	18.75	18.76	
20	64QAM	50	24	18.77	18.79	18.92	
20	64QAM	50	50	18.81	18.78	18.96	
20	64QAM	100	0	18.79	18.76	18.87	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	20.60	20.62	20.57	21.5
15	QPSK	1	37	20.55	20.56	20.57	
15	QPSK	1	74	20.47	20.49	20.52	
15	QPSK	36	0	19.69	19.60	19.68	
15	QPSK	36	20	19.63	19.66	19.67	20.5
15	QPSK	36	39	19.60	19.63	19.69	
15	QPSK	75	0	19.57	19.66	19.61	
15	16QAM	1	0	19.30	19.55	19.61	
15	16QAM	1	37	19.55	19.61	19.46	20.5
15	16QAM	1	74	19.62	19.61	19.72	
15	16QAM	36	0	18.68	18.64	18.69	
15	16QAM	36	20	18.71	18.60	18.64	
15	16QAM	36	39	18.76	18.62	18.63	19.5
15	16QAM	75	0	18.68	18.67	18.65	
15	64QAM	1	0	18.80	18.74	18.78	
15	64QAM	1	37	18.60	18.62	18.78	
15	64QAM	1	74	18.70	18.71	18.82	19.5
15	64QAM	36	0	18.62	18.59	18.60	
15	64QAM	36	20	18.61	18.63	18.76	
15	64QAM	36	39	18.65	18.62	18.80	
15	64QAM	75	0	18.63	18.60	18.71	
Channel				20890	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	20.54	20.56	20.51	21.5
10	QPSK	1	25	20.49	20.50	20.51	
10	QPSK	1	49	20.41	20.43	20.46	
10	QPSK	25	0	19.63	19.54	19.62	
10	QPSK	25	12	19.57	19.60	19.61	20.5
10	QPSK	25	25	19.54	19.57	19.63	
10	QPSK	50	0	19.51	19.60	19.55	
10	16QAM	1	0	19.46	19.49	19.55	
10	16QAM	1	25	19.49	19.55	19.40	20.5
10	16QAM	1	49	19.56	19.55	19.66	
10	16QAM	25	0	18.62	18.58	18.63	
10	16QAM	25	12	18.65	18.54	18.58	
10	16QAM	25	25	18.70	18.56	18.57	19.5
10	16QAM	50	0	18.62	18.61	18.59	
10	64QAM	1	0	18.74	18.68	18.72	
10	64QAM	1	25	18.54	18.56	18.72	
10	64QAM	1	49	18.64	18.65	18.76	19.5
10	64QAM	25	0	18.56	18.53	18.54	
10	64QAM	25	12	18.55	18.57	18.70	
10	64QAM	25	25	18.59	18.56	18.74	
10	64QAM	50	0	18.57	18.54	18.65	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	20.48	20.50	20.45	21.5
5	QPSK	1	12	20.43	20.44	20.45	
5	QPSK	1	24	20.35	20.37	20.40	
5	QPSK	12	0	19.57	19.48	19.56	
5	QPSK	12	7	19.51	19.54	19.55	20.5
5	QPSK	12	13	19.48	19.51	19.57	
5	QPSK	25	0	19.45	19.54	19.49	
5	16QAM	1	0	19.26	19.43	19.49	
5	16QAM	1	12	19.43	19.49	19.34	20.5
5	16QAM	1	24	19.50	19.49	19.60	
5	16QAM	12	0	18.56	18.52	18.57	
5	16QAM	12	7	18.59	18.48	18.52	
5	16QAM	12	13	18.64	18.50	18.51	19.5
5	16QAM	25	0	18.56	18.55	18.53	
5	64QAM	1	0	18.68	18.62	18.66	
5	64QAM	1	12	18.48	18.50	18.66	
5	64QAM	1	24	18.58	18.59	18.70	19.5
5	64QAM	12	0	18.50	18.47	18.48	
5	64QAM	12	7	18.49	18.51	18.64	
5	64QAM	12	13	18.53	18.50	18.68	
5	64QAM	25	0	18.51	18.48	18.59	

1.4	QPSK	1	0	21.35	21.34	21.32	22.5
1.4	QPSK	1	3	21.21	21.33	21.18	
1.4	QPSK	1	5	21.29	21.29	21.26	
1.4	QPSK	3	0	20.57	20.62	20.50	
1.4	QPSK	3	1	20.38	20.46	20.45	
1.4	QPSK	3	3	20.47	20.42	20.44	22
1.4	QPSK	6	0	20.43	20.48	20.45	
1.4	16QAM	1	0	20.51	20.46	20.48	
1.4	16QAM	1	3	20.38	20.47	20.24	
1.4	16QAM	1	5	20.32	20.39	20.47	
1.4	16QAM	3	0	19.40	19.33	19.32	22
1.4	16QAM	3	1	19.52	19.47	19.35	
1.4	16QAM	3	3	19.45	19.44	19.41	
1.4	16QAM	6	0	19.46	19.43	19.33	
1.4	64QAM	1	0	19.69	19.66	19.67	
1.4	64QAM	1	3	19.57	19.67	19.41	21
1.4	64QAM	1	5	19.48	19.61	19.62	
1.4	64QAM	3	0	19.37	19.32	19.32	
1.4	64QAM	3	1	19.44	19.42	19.34	
1.4	64QAM	3	3	19.37	19.38	19.38	
1.4	64QAM	6	0	19.48	19.37	19.26	21

Reduced Power Level 5

5GHz WLAN ANT 4

5.3GHz WLAN ANT 4	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	16.15	17.00	14.00	96.53
		CH 60	5300	15.21	16.00	13.00	96.53
		CH 64	5320	12.20	13.00	10.00	97.20
	802.11n-HT20 MCS0	CH 52	5260	16.33	17.00	14.00	96.30
		CH 60	5300	15.07	16.00	13.00	96.30
		CH 64	5320	12.09	13.00	10.00	96.30
	802.11n-HT40 MCS0	CH 54	5270	13.53	14.50	11.50	92.86
		CH 62	5310	10.64	11.50	8.50	92.86
	802.11ac-VHT20 MCS0	CH 52	5260	16.40	17.50	14.00	97.06
		CH 60	5300	15.07	16.00	13.00	96.32
		CH 64	5320	12.09	13.00	10.00	97.06
	802.11ac-VHT40 MCS0	CH 54	5270	13.53	14.50	11.50	92.86
		CH 62	5310	10.65	11.50	8.50	94.29
	802.11ac-VHT80 MCS0	CH 58	5290	9.54	10.50	7.50	89.19

Reduced Power Level 6

5GHz WLAN ANT 4

5.8GHz WLAN ANT 4	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 149	5745	15.38	16.00	14.00	97.22
		CH 157	5785	15.20	16.00	14.00	97.20
		CH 165	5825	15.27	16.00	14.00	97.20
	802.11n-HT20 MCS0	CH 149	5745	15.18	16.00	14.00	96.30
		CH 157	5785	15.32	16.00	14.00	96.30
		CH 165	5825	15.29	16.00	14.00	96.30
	802.11n-HT40 MCS0	CH 151	5755	13.94	15.00	12.00	92.75
		CH 159	5795	13.32	14.00	12.00	94.20
	802.11ac-VHT20 MCS0	CH 149	5745	15.65	16.50	14.00	96.32
		CH 157	5785	15.37	16.00	14.00	97.04
		CH 165	5825	15.43	16.00	14.00	97.04
	802.11ac-VHT40 MCS0	CH 151	5755	13.47	14.50	12.00	94.20
		CH 159	5795	13.33	14.00	12.00	92.86
	802.11ac-VHT80 MCS0	CH 155	5775	12.84	13.50	11.00	89.19