



REPORT No.: SZ26060442S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

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



Full Power

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		32.51	32.46	32.59	33.50	23.51	23.46	23.59	24.50
GPRS 1 Tx slot		32.40	32.39	32.55	33.50	23.40	23.39	23.55	24.50
GPRS 2 Tx slots		31.73	31.85	31.80	32.50	25.73	25.85	25.80	26.50
GPRS 3 Tx slots		29.71	29.76	29.74	30.50	25.45	25.50	25.48	26.24
GPRS 4 Tx slots		29.05	29.10	29.02	30.00	26.05	26.10	26.02	27.00
EDGE 1 Tx slot		27.19	27.23	27.14	28.00	18.19	18.23	18.14	19.00
EDGE 2 Tx slots		26.22	26.18	26.27	27.00	20.22	20.18	20.27	21.00
EDGE 3 Tx slots		24.12	24.09	24.22	25.00	19.86	19.83	19.96	20.74
EDGE 4 Tx slots		23.26	23.15	23.19	24.00	20.26	20.15	20.19	21.00
Mode			Max.	32.59			Max.	26.10	
Attenuator		Cable Loss : 0.6							
Date		7/14							

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		29.82	30.02	29.86	31.00	20.82	21.02	20.86	22.00
GPRS 1 Tx slot		29.78	29.92	29.80	31.00	20.78	20.92	20.80	22.00
GPRS 2 Tx slots		28.65	28.71	28.76	29.50	22.65	22.71	22.76	23.50
GPRS 3 Tx slots		27.06	26.94	26.90	28.00	22.80	22.68	22.64	23.74
GPRS 4 Tx slots		26.14	26.15	26.11	27.00	23.14	23.15	23.11	24.00
EDGE 1 Tx slot		27.18	27.11	27.06	28.00	18.18	18.11	18.06	19.00
EDGE 2 Tx slots		26.41	26.55	26.44	27.50	20.41	20.55	20.44	21.50
EDGE 3 Tx slots		25.06	25.19	25.14	26.00	20.80	20.93	20.88	21.74
EDGE 4 Tx slots		24.18	24.19	24.11	25.00	21.18	21.19	21.11	22.00
Mode			Max.	30.02			Max.	23.15	
Attenuator		Cable Loss : 0.8							
Date		7/14							

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)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99 RMC 12.2Kbps		23.33	23.46	23.42	24.00	23.69	23.71	23.61	24.00	23.16	23.28	23.21	24.00
3GPP Rel 5 HSDPA Subtest-1		22.50	22.78	22.67	23.50	22.29	22.27	22.75	23.50	22.81	22.79	22.68	23.50
3GPP Rel 5 HSDPA Subtest-2		22.45	22.59	22.29	23.50	22.33	22.05	21.93	23.50	22.59	22.61	22.63	23.50
3GPP Rel 5 HSDPA Subtest-3		22.25	22.19	22.47	23.00	22.19	22.01	21.96	23.00	21.96	21.85	22.19	23.00
3GPP Rel 5 HSDPA Subtest-4		22.13	22.28	22.26	23.00	22.08	22.74	21.95	23.00	21.85	21.76	22.05	23.00
3GPP Rel 8 DC-HSDPA Subtest-1		22.85	22.67	22.53	23.50	22.98	22.97	22.89	23.50	22.79	22.86	22.73	23.50
3GPP Rel 8 DC-HSDPA Subtest-2		21.75	21.60	21.48	22.50	21.59	21.90	21.81	22.50	21.89	21.64	21.61	22.50
3GPP Rel 8 DC-HSDPA Subtest-3		20.25	20.06	19.96	21.00	20.38	20.41	20.31	21.00	21.79	21.88	21.82	22.50
3GPP Rel 8 DC-HSDPA Subtest-4		20.21	20.04	19.94	21.00	20.40	20.35	20.31	21.00	21.02	21.21	21.17	22.00
3GPP Rel 6 HSUPA Subtest-1		21.66	21.47	21.37	22.00	21.78	21.76	21.59	22.50	22.19	22.26	22.31	23.00
3GPP Rel 6 HSUPA Subtest-2		22.17	22.01	21.90	23.00	22.27	22.24	22.12	23.00	22.12	22.19	22.26	23.00
3GPP Rel 6 HSUPA Subtest-3		20.69	20.49	20.35	21.00	20.80	20.75	20.57	21.50	21.37	21.37	21.40	22.00
3GPP Rel 6 HSUPA Subtest-4		21.55	21.66	21.68	22.50	21.66	21.29	21.27	21.50	21.82	21.88	21.56	22.50
3GPP Rel 6 HSUPA Subtest-5		21.79	22.03	22.17	23.00	21.72	21.82	21.91	23.00	21.86	21.84	21.88	22.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1		21.56	21.48	21.49	22.00	21.47	21.44	22.00	23.00	21.43	21.40	21.37	22.00
Attenuator		Cable Loss 0.8				Cable Loss 0.8				Cable Loss 0.6			
Mode			Max.	23.46			Max.	23.71			Max.	23.28	
Date		7/14				7/14				7/14			



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	24
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.32	23.42	23.21	24
20	QPSK	1	49	23.07	23.21	23.05	
20	QPSK	1	99	22.99	23.16	23.01	23
20	QPSK	50	0	22.30	22.47	22.36	
20	QPSK	50	24	22.31	22.43	22.28	23
20	QPSK	50	50	22.28	22.41	22.25	
20	QPSK	100	0	22.27	22.44	22.27	23
20	16QAM	1	0	22.05	22.18	21.99	
20	16QAM	1	49	22.09	22.28	22.15	23
20	16QAM	1	99	21.86	22.01	21.84	
20	16QAM	50	0	21.29	21.42	21.23	22
20	16QAM	50	24	21.26	21.38	21.24	
20	16QAM	50	50	21.42	21.53	21.37	22
20	16QAM	100	0	21.27	21.40	21.23	
20	64QAM	1	0	20.94	21.07	20.91	22
20	64QAM	1	49	21.14	21.28	21.16	
20	64QAM	1	99	20.83	21.02	20.82	21
20	64QAM	50	0	20.38	20.52	20.41	
20	64QAM	50	24	20.15	20.33	20.16	21
20	64QAM	50	50	20.29	20.42	20.32	
20	64QAM	100	0	20.26	20.45	20.34	24
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	24
15	QPSK	1	0	23.22	23.28	23.18	
15	QPSK	1	37	22.90	23.10	22.91	23
15	QPSK	1	74	22.79	22.99	22.88	
15	QPSK	36	0	22.11	22.30	22.23	23
15	QPSK	36	20	22.16	22.25	22.11	
15	QPSK	36	39	22.14	22.22	22.07	23
15	QPSK	75	0	22.07	22.32	22.10	
15	16QAM	1	0	21.89	22.06	21.84	23
15	16QAM	1	37	21.91	22.12	21.99	
15	16QAM	1	74	21.75	21.85	21.71	22
15	16QAM	36	0	21.17	21.23	21.13	
15	16QAM	36	20	21.14	21.24	21.12	22
15	16QAM	36	39	21.27	21.42	21.25	
15	16QAM	75	0	21.11	21.24	21.12	22
15	64QAM	1	0	20.80	20.88	20.79	
15	64QAM	1	37	21.00	21.13	21.04	21
15	64QAM	1	74	20.69	20.86	20.63	
15	64QAM	36	0	20.25	20.34	20.27	21
15	64QAM	36	20	19.98	20.19	19.98	
15	64QAM	36	39	20.10	20.22	20.21	24
15	64QAM	75	0	20.09	20.31	20.16	
Channel				18650	18900	19150	24
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.05	23.11	23.07	23
10	QPSK	1	25	22.75	22.90	22.81	
10	QPSK	1	49	22.61	22.80	22.77	23
10	QPSK	25	0	21.97	22.20	22.04	
10	QPSK	25	12	21.98	22.14	22.01	23
10	QPSK	25	25	21.94	22.02	21.92	
10	QPSK	50	0	21.88	22.15	21.98	23
10	16QAM	1	0	21.77	21.96	21.65	
10	16QAM	1	25	21.72	21.99	21.88	22
10	16QAM	1	49	21.56	21.74	21.56	
10	16QAM	25	0	21.04	21.06	21.02	22
10	16QAM	25	12	20.97	21.05	20.99	
10	16QAM	25	25	21.15	21.22	21.13	22
10	16QAM	50	0	21.00	21.09	21.00	
10	64QAM	1	0	20.61	20.77	20.69	21
10	64QAM	1	25	20.83	20.94	20.92	
10	64QAM	1	49	20.50	20.71	20.50	21
10	64QAM	25	0	20.15	20.18	20.15	
10	64QAM	25	12	19.82	20.06	19.84	24
10	64QAM	25	25	19.98	20.10	20.09	
10	64QAM	50	0	19.96	20.19	20.05	24
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	24
5	QPSK	1	0	22.91	22.97	22.97	
5	QPSK	1	12	22.62	22.74	22.68	23
5	QPSK	1	24	22.50	22.65	22.61	
5	QPSK	12	0	21.82	22.05	21.89	23
5	QPSK	12	7	21.79	21.95	21.89	
5	QPSK	12	13	21.78	21.83	21.74	23
5	QPSK	25	0	21.70	21.96	21.85	
5	16QAM	1	0	21.63	21.80	21.69	23
5	16QAM	1	12	21.60	21.82	21.75	
5	16QAM	1	24	21.40	21.57	21.38	22
5	16QAM	12	0	20.89	20.87	20.85	
5	16QAM	12	7	20.84	20.91	20.82	22
5	16QAM	12	13	21.02	21.02	20.95	
5	16QAM	25	0	20.85	20.94	20.84	21
5	64QAM	1	0	20.42	20.63	20.54	
5	64QAM	1	12	20.64	20.74	20.74	21
5	64QAM	1	24	20.33	20.61	20.40	
5	64QAM	12	0	19.97	20.01	20.03	24
5	64QAM	12	7	19.65	19.91	19.70	
5	64QAM	12	13	19.80	19.93	19.93	24
5	64QAM	25	0	19.79	20.06	19.86	
Channel				18615	18900	19185	24
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.76	22.82	22.87	24
3	QPSK	1	8	22.49	22.59	22.48	
3	QPSK	1	14	22.38	22.53	22.44	24
3	QPSK	8	0	21.72	21.92	21.72	

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	24
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.16	23.31	23.16	24
20	QPSK	1	49	23.11	23.22	23.03	
20	QPSK	1	99	23.02	23.16	22.99	23
20	QPSK	50	0	22.31	22.44	22.30	
20	QPSK	50	24	22.22	22.39	22.27	23
20	QPSK	50	50	22.13	22.32	22.13	
20	QPSK	100	0	22.31	22.42	22.28	23
20	16QAM	1	0	22.21	22.31	22.12	
20	16QAM	1	49	22.30	22.41	22.28	23
20	16QAM	1	99	21.96	22.14	22.00	
20	16QAM	50	0	21.20	21.39	21.27	22
20	16QAM	50	24	21.21	21.37	21.20	
20	16QAM	50	50	21.13	21.28	21.13	22
20	16QAM	100	0	21.15	21.33	21.19	
20	64QAM	1	0	20.98	21.14	21.02	22
20	64QAM	1	49	21.06	21.24	21.09	
20	64QAM	1	99	21.15	21.27	21.07	21
20	64QAM	50	0	20.20	20.35	20.22	
20	64QAM	50	24	20.33	20.45	20.35	21
20	64QAM	50	50	20.17	20.35	20.21	
20	64QAM	100	0	20.28	20.47	20.34	24
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	23.04	23.16	22.98	24
15	QPSK	1	37	23.00	23.11	22.87	
15	QPSK	1	74	22.89	23.04	22.87	23
15	QPSK	36	0	22.13	22.27	22.18	
15	QPSK	36	20	22.03	22.26	22.09	23
15	QPSK	36	39	21.93	22.13	21.97	
15	QPSK	75	0	22.15	22.25	22.09	23
15	16QAM	1	0	22.01	22.19	22.00	
15	16QAM	1	37	22.12	22.24	22.14	23
15	16QAM	1	74	21.85	22.04	21.87	
15	16QAM	36	0	21.02	21.21	21.07	22
15	16QAM	36	20	21.07	21.26	21.00	
15	16QAM	36	39	20.98	21.11	20.95	22
15	16QAM	75	0	20.95	21.16	21.05	
15	64QAM	1	0	20.85	21.01	20.88	22
15	64QAM	1	37	20.94	21.05	20.97	
15	64QAM	1	74	21.01	21.12	20.92	21
15	64QAM	36	0	20.09	20.21	20.11	
15	64QAM	36	20	20.22	20.33	20.21	21
15	64QAM	36	39	19.99	20.16	20.09	
15	64QAM	75	0	20.11	20.34	20.20	24
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	22.90	23.05	22.81	24
10	QPSK	1	25	22.89	22.95	22.70	
10	QPSK	1	49	22.78	22.84	22.69	23
10	QPSK	25	0	22.01	22.17	21.99	
10	QPSK	25	12	21.84	22.06	21.97	23
10	QPSK	25	25	21.80	21.95	21.86	
10	QPSK	50	0	21.98	22.12	21.91	23
10	16QAM	1	0	21.86	22.04	21.88	
10	16QAM	1	25	21.99	22.12	21.95	23
10	16QAM	1	49	21.70	21.85	21.70	
10	16QAM	25	0	20.89	21.04	20.93	22
10	16QAM	25	12	20.96	21.16	20.89	
10	16QAM	25	25	20.78	21.01	20.78	22
10	16QAM	50	0	20.84	20.98	20.86	
10	64QAM	1	0	20.71	20.84	20.72	22
10	64QAM	1	25	20.82	20.86	20.83	
10	64QAM	1	49	20.90	21.01	20.74	21
10	64QAM	25	0	19.97	20.07	19.96	
10	64QAM	25	12	20.07	20.21	20.08	21
10	64QAM	25	25	19.88	20.03	19.99	
10	64QAM	50	0	20.00	20.21	20.06	24
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	22.78	22.90	22.70	24
5	QPSK	1	12	22.75	22.80	22.56	
5	QPSK	1	24	22.67	22.66	22.50	23
5	QPSK	12	0	21.88	22.04	21.83	
5	QPSK	12	7	21.65	21.91	21.83	23
5	QPSK	12	13	21.64	21.77	21.70	
5	QPSK	25	0	21.86	22.00	21.79	23
5	16QAM	1	0	21.71	21.89	21.76	
5	16QAM	1	12	21.87	22.01	21.78	23
5	16QAM	1	24	21.54	21.72	21.55	
5	16QAM	12	0	20.73	20.90	20.81	22
5	16QAM	12	7	20.79	20.99	20.73	
5	16QAM	12	13	20.68	20.90	20.59	22
5	16QAM	25	0	20.68	20.86	20.74	
5	64QAM	1	0	20.56	20.65	20.61	22
5	64QAM	1	12	20.70	20.70	20.66	
5	64QAM	1	24	20.75	20.85	20.63	21
5	64QAM	12	0	19.86	19.95	19.82	
5	64QAM	12	7	19.92	20.09	19.94	21
5	64QAM	12	13	19.76	19.89	19.89	
5	64QAM	25	0	19.82	20.07	19.90	24
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)
3	QPSK	1	0	22.66	22.71	22.58	24
3	QPSK	1	8	22.61	22.68	22.44	
3	QPSK	1	14	22.52	22.55	22.40	24
3	QPSK	8	0	21.70	21.86	21.72	



3	QPSK	8	4	21.68	21.79	21.75	23
3	QPSK	8	7	21.67	21.72	21.54	
3	QPSK	15	0	21.52	21.76	21.74	
3	16QAM	1	0	21.46	21.61	21.33	23
3	16QAM	1	8	21.40	21.69	21.55	
3	16QAM	1	14	21.25	21.40	21.22	
3	16QAM	8	0	20.69	20.75	20.74	22
3	16QAM	8	4	20.67	20.74	20.62	
3	16QAM	8	7	20.86	20.89	20.81	
3	16QAM	15	0	20.70	20.81	20.68	22
3	64QAM	1	0	20.30	20.48	20.39	
3	64QAM	1	8	20.49	20.57	20.56	
3	64QAM	1	14	20.19	20.46	20.20	21
3	64QAM	8	0	19.82	19.88	19.89	
3	64QAM	8	4	19.46	19.80	19.55	
3	64QAM	8	7	19.66	19.77	19.74	21
3	64QAM	15	0	19.62	19.88	19.68	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.59	22.63	22.67	
1.4	QPSK	1	3	22.36	22.46	22.35	24
1.4	QPSK	1	5	22.20	22.39	22.27	
1.4	QPSK	3	0	21.59	21.81	21.61	
1.4	QPSK	3	1	21.54	21.66	21.64	23
1.4	QPSK	3	3	21.49	21.57	21.41	
1.4	QPSK	6	0	21.36	21.56	21.54	
1.4	16QAM	1	0	21.36	21.41	21.14	22
1.4	16QAM	1	3	21.24	21.54	21.42	
1.4	16QAM	1	5	21.11	21.21	21.06	
1.4	16QAM	3	0	20.51	20.55	20.60	22
1.4	16QAM	3	1	20.49	20.59	20.48	
1.4	16QAM	3	3	20.71	20.71	20.64	
1.4	16QAM	6	0	20.54	20.69	20.49	21
1.4	64QAM	1	0	20.13	20.32	20.27	
1.4	64QAM	1	3	20.36	20.45	20.44	
1.4	64QAM	1	5	20.05	20.34	20.03	21
1.4	64QAM	3	0	19.65	19.71	19.69	
1.4	64QAM	3	1	19.36	19.61	19.39	
1.4	64QAM	3	3	19.54	19.63	19.58	21
1.4	64QAM	6	0	19.52	19.70	19.51	

3	QPSK	8	4	21.46	21.75	21.69	23
3	QPSK	8	7	21.49	21.58	21.54	
3	QPSK	15	0	21.74	21.88	21.68	
3	16QAM	1	0	21.57	21.72	21.63	23
3	16QAM	1	8	21.71	21.86	21.66	
3	16QAM	1	14	21.35	21.54	21.42	
3	16QAM	8	0	20.53	20.71	20.71	22
3	16QAM	8	4	20.69	20.82	20.54	
3	16QAM	8	7	20.53	20.73	20.40	
3	16QAM	15	0	20.54	20.71	20.57	22
3	64QAM	1	0	20.40	20.51	20.48	
3	64QAM	1	8	20.56	20.60	20.49	
3	64QAM	1	14	20.61	20.68	20.50	21
3	64QAM	8	0	19.73	19.78	19.70	
3	64QAM	8	4	19.79	19.96	19.76	
3	64QAM	8	7	19.58	19.73	19.72	21
3	64QAM	15	0	19.63	19.96	19.76	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.03	23.19	23.03	
1.4	QPSK	1	3	22.98	23.09	22.93	24
1.4	QPSK	1	5	22.87	23.00	22.87	
1.4	QPSK	3	0	22.20	22.33	22.19	
1.4	QPSK	3	1	22.11	22.20	22.13	23
1.4	QPSK	3	3	22.26	22.15	22.33	
1.4	QPSK	6	0	22.19	22.24	22.16	
1.4	16QAM	1	0	22.05	22.16	21.97	23
1.4	16QAM	1	3	22.18	22.29	22.13	
1.4	16QAM	1	5	21.78	21.96	21.86	
1.4	16QAM	3	0	21.01	21.23	21.08	22
1.4	16QAM	3	1	21.22	21.21	21.09	
1.4	16QAM	3	3	21.08	21.11	21.26	
1.4	16QAM	6	0	21.00	21.21	21.00	22
1.4	64QAM	1	0	20.82	21.00	20.89	
1.4	64QAM	1	3	20.93	21.09	20.90	
1.4	64QAM	1	5	21.00	21.10	20.95	22
1.4	64QAM	3	0	20.01	20.24	20.07	
1.4	64QAM	3	1	20.16	20.34	20.15	
1.4	64QAM	3	3	20.01	20.15	20.01	21
1.4	64QAM	6	0	20.13	20.35	20.18	



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	24
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.34	23.38	23.29	24
10	QPSK	1	25	23.13	23.29	23.13	
10	QPSK	1	49	23.11	23.30	23.18	23
10	QPSK	25	0	22.31	22.44	22.31	
10	QPSK	25	12	22.32	22.45	22.28	23
10	QPSK	25	25	22.29	22.42	22.24	
10	QPSK	50	0	22.38	22.50	22.35	23
10	16QAM	1	0	22.34	22.51	22.35	
10	16QAM	1	25	22.40	22.57	22.39	23
10	16QAM	1	49	22.45	22.62	22.50	
10	16QAM	25	0	21.35	21.46	21.30	22
10	16QAM	25	12	21.26	21.44	21.32	
10	16QAM	25	25	21.43	21.55	21.35	22
10	16QAM	50	0	21.34	21.51	21.38	
10	64QAM	1	0	21.35	21.52	21.32	22
10	64QAM	1	25	21.51	21.65	21.52	
10	64QAM	1	49	21.37	21.49	21.39	21
10	64QAM	25	0	20.29	20.40	20.29	
10	64QAM	25	12	20.19	20.36	20.19	21
10	64QAM	25	25	20.28	20.39	20.23	
10	64QAM	50	0	20.26	20.45	20.34	21
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	24
5	QPSK	1	0	23.09	23.26	23.22	
5	QPSK	1	12	23.02	23.11	22.96	23
5	QPSK	1	24	22.92	23.12	23.03	
5	QPSK	12	0	22.13	22.31	22.18	23
5	QPSK	12	7	22.15	22.33	22.08	
5	QPSK	12	13	22.14	22.31	22.07	23
5	QPSK	25	0	22.26	22.40	22.17	
5	16QAM	1	0	22.19	22.33	22.23	23
5	16QAM	1	12	22.26	22.44	22.24	
5	16QAM	1	24	22.28	22.47	22.32	22
5	16QAM	12	0	21.16	21.28	21.16	
5	16QAM	12	7	21.10	21.33	21.20	22
5	16QAM	12	13	21.24	21.37	21.20	
5	16QAM	25	0	21.20	21.34	21.24	22
5	64QAM	1	0	21.20	21.39	21.19	
5	64QAM	1	12	21.39	21.54	21.34	21
5	64QAM	1	24	21.19	21.29	21.26	
5	64QAM	12	0	20.19	20.22	20.19	21
5	64QAM	12	7	20.01	20.19	20.05	
5	64QAM	12	13	20.13	20.25	20.07	21
5	64QAM	25	0	20.10	20.29	20.19	
Channel				20415	20525	20635	24
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.90	23.12	23.03	23
3	QPSK	1	8	22.86	23.00	22.85	
3	QPSK	1	14	22.79	22.93	22.90	23
3	QPSK	8	0	22.01	22.20	21.98	
3	QPSK	8	4	22.01	22.15	21.90	23
3	QPSK	8	7	21.99	22.11	21.89	
3	QPSK	15	0	22.09	22.24	21.99	23
3	16QAM	1	0	22.06	22.15	22.09	
3	16QAM	1	8	22.14	22.29	22.12	22
3	16QAM	1	14	22.08	22.30	22.12	
3	16QAM	8	0	21.03	21.13	21.03	22
3	16QAM	8	4	20.95	21.16	21.04	
3	16QAM	8	7	21.12	21.25	21.00	22
3	16QAM	15	0	21.01	21.19	21.06	
3	64QAM	1	0	21.01	21.26	21.02	22
3	64QAM	1	8	21.21	21.38	21.24	
3	64QAM	1	14	21.03	21.18	21.09	21
3	64QAM	8	0	20.03	20.10	20.04	
3	64QAM	8	4	19.89	19.99	19.86	21
3	64QAM	8	7	20.02	20.12	19.91	
3	64QAM	15	0	19.95	20.11	20.04	21
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	24
1.4	QPSK	1	0	23.10	23.27	23.18	
1.4	QPSK	1	3	22.95	23.16	22.98	23
1.4	QPSK	1	5	22.99	23.11	22.99	
1.4	QPSK	3	0	22.21	22.30	22.16	23
1.4	QPSK	3	1	22.15	22.33	22.18	
1.4	QPSK	3	3	22.15	22.29	22.14	23
1.4	QPSK	6	0	22.24	22.32	22.20	
1.4	16QAM	1	0	22.22	22.32	22.19	23
1.4	16QAM	1	3	22.24	22.42	22.25	
1.4	16QAM	1	5	22.28	22.48	22.32	22
1.4	16QAM	3	0	21.21	21.35	21.19	
1.4	16QAM	3	1	21.11	21.31	21.14	22
1.4	16QAM	3	3	21.29	21.43	21.23	
1.4	16QAM	6	0	21.23	21.32	21.26	22
1.4	64QAM	1	0	21.18	21.35	21.15	
1.4	64QAM	1	3	21.34	21.52	21.34	22
1.4	64QAM	1	5	21.26	21.34	21.26	
1.4	64QAM	3	0	20.16	20.26	20.17	21
1.4	64QAM	3	1	20.08	20.19	20.05	
1.4	64QAM	3	3	20.14	20.20	20.06	21
1.4	64QAM	6	0	20.14	20.33	20.22	

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	24
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.89	22.96	23.04	24
20	QPSK	1	49	22.81	22.91	22.98	
20	QPSK	1	99	22.73	22.76	22.57	23
20	QPSK	50	0	22.08	22.04	22.16	
20	QPSK	50	24	21.95	22.01	21.93	23
20	QPSK	50	50	22.02	22.10	21.90	
20	QPSK	100	0	21.97	21.98	21.88	23
20	16QAM	1	0	22.04	22.13	21.97	
20	16QAM	1	49	22.21	22.25	22.10	22
20	16QAM	1	99	22.26	22.29	22.15	
20	16QAM	50	0	21.04	21.11	21.01	22
20	16QAM	50	24	21.02	21.12	20.95	
20	16QAM	50	50	20.95	21.03	20.86	22
20	16QAM	100	0	21.06	21.06	20.89	
20	64QAM	1	0	20.89	20.93	20.79	22
20	64QAM	1	49	20.86	20.89	20.73	
20	64QAM	1	99	20.78	20.84	20.70	21
20	64QAM	50	0	20.04	20.08	19.95	
20	64QAM	50	24	20.03	20.04	19.91	21
20	64QAM	50	50	20.12	20.16	20.06	
20	64QAM	100	0	20.03	20.06	19.91	21
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	24
15	QPSK	1	0	22.77	22.98	22.89	
15	QPSK	1	37	22.84	22.96	22.77	23
15	QPSK	1	74	22.69	22.69	22.55	
15	QPSK	36	0	21.88	22.03	21.84	23
15	QPSK	36	20	21.94	22.00	21.84	
15	QPSK	36	39	21.98	22.03	21.80	23
15	QPSK	75	0	21.94	21.92	21.82	
15	16QAM	1	0	22.02	22.04	21.94	23
15	16QAM	1	37	22.21	22.23	22.06	
15	16QAM	1	74	22.23	22.26	22.09	22
15	16QAM	36	0	21.02	21.09	21.01	
15	16QAM	36	20	20.95	21.11	20.89	22
15	16QAM	36	39	20.92	20.95	20.77	
15	16QAM	75	0	20.98	21.05	20.83	22
15	64QAM	1	0	20.88	20.84	20.75	
15	64QAM	1	37	20.80	20.86	20.66	21
15	64QAM	1	74	20.78	20.77	20.66	
15	64QAM	36	0	19.99	19.98	19.94	21
15	64QAM	36	20	19.94	19.94	19.86	
15	64QAM	36	39	20.02	20.10	20.03	21
15	64QAM	75	0	20.00	20.02	19.91	
Channel				20800	21100	21400	24
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.68	22.93	22.80	23
10	QPSK	1	25	22.74	22.93	22.72	
10	QPSK	1	49	22.63	22.67	22.46	23
10	QPSK	25	0	21.82	22.00	21.79	
10	QPSK	25	12	21.93	21.94	21.76	23
10	QPSK	25	25	21.89	22.02	21.78	
10	QPSK	50	0	21.93	21.91	21.78	23
10	16QAM	1	0	22.02	22.03	21.84	
10	16QAM	1	25	22.12	22.21	21.99	22
10	16QAM	1	49	22.13	22.20	22.04	
10	16QAM	25	0	21.01	21.01	20.98	22
10	16QAM	25	12	20.93	21.04	20.88	
10	16QAM	25	25	20.82	20.93	20.76	22
10	16QAM	50	0	20.91	21.03	20.76	
10	64QAM	1	0	20.88	20.79	20.72	22
10	64QAM	1	25	20.70	20.76	20.58	
10	64QAM	1	49	20.72	20.71	20.58	21

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			24
Frequency (MHz)				782			
10	QPSK	1	0	23.31			24
10	QPSK	1	25	23.22			
10	QPSK	1	49	23.15			
10	QPSK	25	0	22.26			23
10	QPSK	25	12	22.17			
10	QPSK	25	25	22.10			
10	QPSK	50	0	22.14			23
10	16QAM	1	0	22.29			
10	16QAM	1	25	22.28			
10	16QAM	1	49	22.07			22
10	16QAM	25	0	21.23			
10	16QAM	25	12	21.17			
10	16QAM	25	25	21.13			22
10	16QAM	50	0	21.12			
10	64QAM	1	0	21.33			22
10	64QAM	1	25	21.39			
10	64QAM	1	49	21.17			21
10	64QAM	25	0	20.30			
10	64QAM	25	12	20.16			
10	64QAM	25	25	20.09			21
10	64QAM	50	0	20.13			
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.16	23.17	23.08	24
5	QPSK	1	12	22.88	22.99	22.85	
5	QPSK	1	24	23.05	23.06	22.89	
5	QPSK	12	0	22.17	22.19	22.02	23
5	QPSK	12	7	22.11	22.13	22.07	
5	QPSK	12	13	22.13	22.13	22.03	
5	QPSK	25	0	22.16	22.22	22.06	23
5	16QAM	1	0	22.30	22.29	22.15	
5	16QAM	1	12	22.18	22.25	22.18	
5	16QAM	1	24	21.99	22.07	21.93	22
5	16QAM	12	0	21.19	21.25	21.04	
5	16QAM	12	7	21.16	21.15	20.96	
5	16QAM	12	13	21.15	21.18	20.91	22
5	16QAM	25	0	21.12	21.09	21.02	
5	64QAM	1	0	21.28	21.35	21.17	
5	64QAM	1	12	21.35	21.36	21.27	22
5	64QAM	1	24	21.09	21.18	21.03	
5	64QAM	12	0	20.20	20.34	20.18	
5	64QAM	12	7	20.22	20.24	20.05	21
5	64QAM	12	13	20.19	20.25	20.10	
5	64QAM	25	0	20.22	20.28	20.08	

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	24
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.21	23.45	23.22	24
15	QPSK	1	37	23.31	23.31	23.17	
15	QPSK	1	74	23.31	23.40	23.25	
15	QPSK	36	0	22.41	22.45	22.34	23
15	QPSK	36	20	22.40	22.41	22.32	
15	QPSK	36	39	22.36	22.38	22.29	
15	QPSK	75	0	22.29	22.35	22.30	23
15	16QAM	1	0	22.21	22.30	22.18	
15	16QAM	1	37	22.31	22.32	22.13	
15	16QAM	1	74	22.46	22.50	22.36	22
15	16QAM	36	0	21.33	21.34	21.24	
15	16QAM	36	20	21.33	21.41	21.26	
15	16QAM	36	39	21.52	21.53	21.40	22
15	16QAM	75	0	21.44	21.47	21.37	
15	64QAM	1	0	21.37	21.40	21.28	
15	64QAM	1	37	21.52	21.53	21.38	22
15	64QAM	1	74	21.45	21.47	21.35	
15	64QAM	36	0	20.38	20.39	20.29	
15	64QAM	36	20	20.54	20.57	20.42	21
15	64QAM	36	39	20.66	20.68	20.58	
15	64QAM	75	0	20.36	20.45	20.33	
Channel				26740	26865	26990	24
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.19	23.44	23.12	24
10	QPSK	1	25	23.25	23.29	23.10	
10	QPSK	1	49	23.24	23.40	23.17	
10	QPSK	25	0	22.37	22.42	22.27	23
10	QPSK	25	12	22.37	22.45	22.31	
10	QPSK	25	25	22.47	22.58	22.44	
10	QPSK	50	0	22.35	22.42	22.30	23
10	16QAM	1	0	22.14	22.21	22.14	
10	16QAM	1	25	22.28	22.31	22.13	
10	16QAM	1	49	22.39	22.41	22.33	22
10	16QAM	25	0	21.25	21.29	21.22	
10	16QAM	25	12	21.27	21.40	21.21	
10	16QAM	25	25	21.49	21.46	21.37	22
10	16QAM	50	0	21.41	21.38	21.29	
10	64QAM	1	0	21.36	21.35	21.24	
10	64QAM	1	25	21.48	21.44	21.32	22
10	64QAM	1	49	21.36	21.39	21.28	
10	64QAM	25	0	20.35	20.37	20.24	
10	64QAM	25	12	20.50	20.55	20.34	21
10	64QAM	25	25	20.63	20.67	20.51	
10	64QAM	50	0	20.27	20.36	20.32	
Channel				26715	26865	27015	24
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.11	23.44	23.09	24
5	QPSK	1	12	23.20	23.25	23.05	
5	QPSK	1	24	23.16	23.38	23.08	
5	QPSK	12	0	22.36	22.34	22.25	23
5	QPSK	12	7	22.28	22.38	22.28	
5	QPSK	12	13	22.41	22.53	22.39	
5	QPSK	25	0	22.32	22.41	22.29	23
5	16QAM	1	0	22.10	22.15	22.08	
5	16QAM	1	12	22.23	22.24	22.09	
5	16QAM	1	24	22.31	22.34	22.28	22
5	16QAM	12	0	21.19	21.22	21.21	
5	16QAM	12	7	21.22	21.32	21.14	
5	16QAM	12	13	21.49	21.45	21.30	22
5	16QAM	25	0	21.32	21.36	21.27	
5	64QAM	1	0	21.33	21.35	21.15	
5	64QAM	1	12	21.39	21.38	21.28	22
5	64QAM	1	24	21.28	21.34	21.21	
5	64QAM	12	0	20.28	20.29	20.18	
5	64QAM	12	7	20.47	20.45	20.32	21
5	64QAM	12	13	20.61	20.65	20.48	
5	64QAM	25	0	20.18	20.32	20.26	
Channel				26705	26865	27025	24
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.08	23.38	23.00	24
3	QPSK	1	8	23.18	23.24	22.99	
3	QPSK	1	14	23.11	23.34	22.98	
3	QPSK	8	0	22.31	22.30	22.20	23
3	QPSK	8	4	22.20	22.32	22.21	
3	QPSK	8	7	22.38	22.45	22.30	
3	QPSK	15	0	22.25	22.31	22.25	23
3	16QAM	1	0	22.07	22.12	22.01	
3	16QAM	1	8	22.14	22.21	22.01	
3	16QAM	1	14	22.30	22.26	22.21	22
3	16QAM	8	0	21.09	21.13	21.21	
3	16QAM	8	4	21.14	21.31	21.10	
3	16QAM	8	7	21.48	21.35	21.28	22
3	16QAM	15	0	21.28	21.36	21.26	
3	64QAM	1	0	21.28	21.28	21.12	
3	64QAM	1	8	21.36	21.37	21.25	22
3	64QAM	1	14	21.20	21.24	21.19	
3	64QAM	8	0	20.27	20.24	20.15	
3	64QAM	8	4	20.40	20.38	20.28	21
3	64QAM	8	7	20.55	20.61	20.42	
3	64QAM	15	0	20.13	20.28	20.23	
Channel				26697	26865	27033	24
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.05	23.30	22.99	24
1.4	QPSK	1	3	23.15	23.17	22.91	
1.4	QPSK	1	5	23.03	23.29	22.93	
1.4	QPSK	3	0	22.29	22.25	22.17	24



1.4	QPSK	3	1	22.14	22.29	22.19	
1.4	QPSK	3	3	22.29	22.39	22.21	
1.4	QPSK	6	0	22.23	22.26	22.18	23
1.4	16QAM	1	0	22.06	22.11	21.93	
1.4	16QAM	1	3	22.13	22.13	22.00	
1.4	16QAM	1	5	22.27	22.22	22.13	
1.4	16QAM	3	0	21.02	21.09	21.13	23
1.4	16QAM	3	1	21.11	21.31	21.09	
1.4	16QAM	3	3	21.43	21.31	21.24	
1.4	16QAM	6	0	21.21	21.32	21.22	22
1.4	64QAM	1	0	21.22	21.27	21.06	
1.4	64QAM	1	3	21.30	21.33	21.16	
1.4	64QAM	1	5	21.19	21.21	21.10	
1.4	64QAM	3	0	20.22	20.24	20.08	22
1.4	64QAM	3	1	20.34	20.35	20.20	
1.4	64QAM	3	3	20.50	20.55	20.33	
1.4	64QAM	6	0	20.10	20.27	20.22	21



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	24
20	QPSK	1	0	23.46	23.51	23.38	
20	QPSK	1	49	23.30	23.37	23.22	23
20	QPSK	1	99	23.17	23.24	23.08	
20	QPSK	50	0	22.46	22.56	22.42	23
20	QPSK	50	24	22.42	22.45	22.31	
20	QPSK	50	50	22.48	22.39	22.39	23
20	QPSK	100	0	22.45	22.48	22.36	
20	16QAM	1	0	22.34	22.44	22.29	22
20	16QAM	1	49	22.67	22.73	22.60	
20	16QAM	1	99	22.46	22.50	22.35	22
20	16QAM	50	0	21.42	21.52	21.34	
20	16QAM	50	24	21.52	21.57	21.37	22
20	16QAM	50	50	21.54	21.60	21.49	
20	16QAM	100	0	21.48	21.51	21.40	22
20	64QAM	1	0	21.30	21.32	21.14	
20	64QAM	1	49	21.55	21.57	21.40	21
20	64QAM	1	99	21.21	21.31	21.14	
20	64QAM	50	0	20.47	20.51	20.34	21
20	64QAM	50	24	20.53	20.54	20.39	
20	64QAM	50	50	20.56	20.62	20.46	21
20	64QAM	100	0	20.44	20.50	20.36	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.29	23.50	23.17	24
15	QPSK	1	37	23.38	23.46	23.35	
15	QPSK	1	74	23.16	23.20	23.06	23
15	QPSK	36	0	22.35	22.39	22.25	
15	QPSK	36	20	22.40	22.46	22.30	23
15	QPSK	36	39	22.45	22.39	22.34	
15	QPSK	75	0	22.44	22.41	22.30	23
15	16QAM	1	0	22.31	22.39	22.26	
15	16QAM	1	37	22.66	22.66	22.50	22
15	16QAM	1	74	22.39	22.49	22.34	
15	16QAM	36	0	21.39	21.51	21.31	22
15	16QAM	36	20	21.45	21.47	21.35	
15	16QAM	36	39	21.45	21.57	21.49	22
15	16QAM	75	0	21.45	21.43	21.38	
15	64QAM	1	0	21.30	21.32	21.04	22
15	64QAM	1	37	21.45	21.56	21.38	
15	64QAM	1	74	21.13	21.23	21.11	21
15	64QAM	36	0	20.41	20.49	20.29	
15	64QAM	36	20	20.53	20.50	20.32	21
15	64QAM	36	39	20.50	20.53	20.40	
15	64QAM	75	0	20.36	20.40	20.29	24
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)
10	QPSK	1	0	23.21	23.44	23.17	
10	QPSK	1	25	23.32	23.44	23.27	24
10	QPSK	1	49	23.06	23.19	23.03	
10	QPSK	25	0	22.33	22.34	22.17	23
10	QPSK	25	12	22.39	22.43	22.20	
10	QPSK	25	25	22.37	22.36	22.30	23
10	QPSK	50	0	22.43	22.38	22.28	
10	16QAM	1	0	22.26	22.34	22.24	23
10	16QAM	1	25	22.62	22.62	22.46	
10	16QAM	1	49	22.33	22.46	22.24	22
10	16QAM	25	0	21.36	21.43	21.25	
10	16QAM	25	12	21.35	21.38	21.34	22
10	16QAM	25	25	21.43	21.50	21.41	
10	16QAM	50	0	21.43	21.42	21.36	22
10	64QAM	1	0	21.21	21.26	20.99	
10	64QAM	1	25	21.41	21.52	21.37	21
10	64QAM	1	49	21.07	21.14	21.04	
10	64QAM	25	0	20.35	20.39	20.28	21
10	64QAM	25	12	20.47	20.46	20.30	
10	64QAM	25	25	20.44	20.47	20.34	21
10	64QAM	50	0	20.29	20.34	20.29	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.15	23.37	23.14	24
5	QPSK	1	12	23.29	23.40	23.18	
5	QPSK	1	24	22.98	23.11	22.97	23
5	QPSK	12	0	22.24	22.27	22.08	
5	QPSK	12	7	22.29	22.35	22.16	23
5	QPSK	12	13	22.27	22.26	22.29	
5	QPSK	25	0	22.33	22.36	22.25	23
5	16QAM	1	0	22.20	22.29	22.20	
5	16QAM	1	12	22.58	22.59	22.36	22
5	16QAM	1	24	22.32	22.45	22.14	
5	16QAM	12	0	21.27	21.39	21.22	22
5	16QAM	12	7	21.31	21.31	21.26	
5	16QAM	12	13	21.34	21.45	21.34	22
5	16QAM	25	0	21.42	21.40	21.27	
5	64QAM	1	0	21.18	21.19	20.94	22
5	64QAM	1	12	21.33	21.44	21.28	
5	64QAM	1	24	21.05	21.04	21.01	21
5	64QAM	12	0	20.27	20.33	20.25	
5	64QAM	12	7	20.37	20.41	20.24	21
5	64QAM	12	13	20.41	20.38	20.28	
5	64QAM	25	0	20.23	20.32	20.28	21
5	64QAM	25	0	20.23	20.32	20.28	

Band 40 (2.3G Band-1) (dBm) Part 27D-1 2305MHz ~ 2315MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			24
Frequency (MHz)				2310			
10	QPSK	1	0	23.25			24
10	QPSK	1	25	23.18			
10	QPSK	1	49	23.09			
10	QPSK	25	0	22.19			
10	QPSK	25	12	22.14			23
10	QPSK	25	25	22.11			
10	QPSK	50	0	22.12			
10	16QAM	1	0	22.27			
10	16QAM	1	25	22.51			23
10	16QAM	1	49	22.16			
10	16QAM	25	0	21.19			
10	16QAM	25	12	21.21			
10	16QAM	25	25	21.35			22
10	16QAM	50	0	21.28			
10	64QAM	1	0	21.13			
10	64QAM	1	25	21.30			
10	64QAM	1	49	21.15			21
10	64QAM	25	0	20.14			
10	64QAM	25	12	20.18			
10	64QAM	25	25	20.20			
10	64QAM	50	0	20.05			21
Channel				38725	38750	38775	
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)
5	QPSK	1	0	22.45	22.53	22.46	24
5	QPSK	1	12	22.47	22.52	22.41	
5	QPSK	1	24	22.39	22.41	22.36	
5	QPSK	12	0	21.35	21.42	21.30	
5	QPSK	12	7	21.44	21.44	21.29	23
5	QPSK	12	13	21.47	21.47	21.29	
5	QPSK	25	0	21.33	21.48	21.26	
5	16QAM	1	0	21.55	21.53	21.38	
5	16QAM	1	12	21.74	21.79	21.61	23
5	16QAM	1	24	21.44	21.50	21.38	
5	16QAM	12	0	20.45	20.49	20.33	
5	16QAM	12	7	20.48	20.54	20.40	
5	16QAM	12	13	20.59	20.57	20.44	22
5	16QAM	25	0	20.48	20.50	20.37	
5	64QAM	1	0	20.40	20.49	20.36	
5	64QAM	1	12	20.53	20.59	20.48	
5	64QAM	1	24	20.41	20.37	20.31	22
5	64QAM	12	0	19.40	19.48	19.34	
5	64QAM	12	7	19.48	19.46	19.28	
5	64QAM	12	13	19.44	19.49	19.29	
5	64QAM	25	0	19.42	19.45	19.32	21

Band 40 (2.3G Band-2) (dBm) Part 27D-2 2350MHz ~ 2360MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	23.59			24
10	QPSK	1	25	23.42			
10	QPSK	1	49	23.31			
10	QPSK	25	0	22.47			
10	QPSK	25	12	22.42			23
10	QPSK	25	25	22.32			
10	QPSK	50	0	22.38			
10	16QAM	1	0	22.43			
10	16QAM	1	25	22.69			23
10	16QAM	1	49	22.40			
10	16QAM	25	0	21.39			
10	16QAM	25	12	21.44			
10	16QAM	25	25	21.47			22
10	16QAM	50	0	21.40			
10	64QAM	1	0	21.39			
10	64QAM	1	25	21.49			
10	64QAM	1	49	21.27			22
10	64QAM	25	0	20.71			
10	64QAM	25	12	20.63			
10	64QAM	25	25	20.53			
10	64QAM	50	0	20.46			21
Channel				39175	39200	39225	
Frequency (MHz)				2352.5	2355	2357.5	Tune-up limit (dBm)
5	QPSK	1	0	23.37	23.49	23.35	24
5	QPSK	1	12	23.45	23.46	23.35	
5	QPSK	1	24	23.31	23.33	23.33	
5	QPSK	12	0	22.30	22.39	22.22	
5	QPSK	12	7	22.40	22.39	22.24	23
5	QPSK	12	13	22.41	22.40	22.24	
5	QPSK	25	0	22.27	22.42	22.23	
5	16QAM	1	0	22.47	22.42	22.30	
5	16QAM	1	12	22.66	22.72	22.58	23
5	16QAM	1	24	22.41	22.47	22.36	
5	16QAM	12	0	21.39	21.38	21.25	
5	16QAM	12	7	21.43	21.51	21.32	
5	16QAM	12	13	21.54	21.48	21.33	22
5	16QAM	25	0	21.39	21.42	21.33	
5	64QAM	1	0	21.34	21.40	21.32	
5	64QAM	1	12	21.46	21.51	21.39	
5	64QAM	1	24	21.30	21.27	21.23	22
5	64QAM	12	0	20.32	20.45	20.28	
5	64QAM	12	7	20.42	20.43	20.24	
5	64QAM	12	13	20.38	20.46	20.23	
5	64QAM	25	0	20.39	20.39	20.27	21



Band 41 (2496~2690MHz) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.49	23.45	23.68	23.53	23.41	24
20	QPSK	1	49	23.41	23.40	23.66	23.25	23.29	
20	QPSK	1	99	23.23	23.32	23.52	23.29	23.11	
20	QPSK	50	0	22.76	22.73	22.82	22.60	22.67	
20	QPSK	50	24	22.62	22.61	22.79	22.54	22.51	23.5
20	QPSK	50	50	22.55	22.59	22.63	22.39	22.41	
20	QPSK	100	0	22.61	22.55	22.73	22.69	22.36	
20	16QAM	1	0	22.91	22.91	22.90	22.84	22.81	
20	16QAM	1	49	23.06	23.08	22.98	22.94	22.89	23.5
20	16QAM	1	99	22.92	22.99	22.98	22.97	22.88	
20	16QAM	50	0	21.94	22.02	22.00	21.91	21.81	
20	16QAM	50	24	21.99	22.03	21.94	21.92	21.88	
20	16QAM	50	50	21.98	22.02	21.99	21.98	21.92	22.5
20	16QAM	100	0	21.92	21.97	21.92	21.89	21.84	
20	64QAM	1	0	21.63	21.72	21.70	21.60	21.51	
20	64QAM	1	49	21.84	21.87	21.85	21.77	21.75	
20	64QAM	1	99	21.68	21.78	21.71	21.68	21.65	22.5
20	64QAM	50	0	21.00	21.02	20.98	20.96	20.92	
20	64QAM	50	24	20.95	21.03	20.96	20.95	20.89	
20	64QAM	50	50	21.03	21.04	20.98	20.88	20.86	
20	64QAM	100	0	20.95	21.02	20.95	20.89	20.85	21.5
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Tune-up limit (dBm)
15	QPSK	1	0	23.40	23.61	23.64	23.43	23.38	24
15	QPSK	1	37	23.55	23.64	23.61	23.59	23.46	
15	QPSK	1	74	23.45	23.52	23.48	23.39	23.46	
15	QPSK	36	0	22.82	22.87	22.88	22.77	22.65	
15	QPSK	36	20	22.99	22.93	22.91	22.90	22.79	23.5
15	QPSK	36	39	22.87	22.88	22.78	22.69	22.66	
15	QPSK	75	0	22.88	22.91	22.90	22.83	22.75	
15	16QAM	1	0	22.82	22.88	22.90	22.78	22.75	
15	16QAM	1	37	23.00	23.01	22.95	22.88	22.81	23.5
15	16QAM	1	74	22.90	22.95	22.89	22.87	22.87	
15	16QAM	36	0	21.87	21.96	21.90	21.81	21.78	
15	16QAM	36	20	21.98	22.03	21.93	21.91	21.82	
15	16QAM	36	39	21.89	21.93	21.96	21.96	21.91	22.5
15	16QAM	75	0	21.86	21.87	21.89	21.80	21.79	
15	64QAM	1	0	21.59	21.65	21.61	21.50	21.49	
15	64QAM	1	37	21.74	21.86	21.81	21.67	21.66	
15	64QAM	1	74	21.61	21.69	21.64	21.60	21.59	22.5
15	64QAM	36	0	20.98	20.95	20.93	20.94	20.89	
15	64QAM	36	20	20.90	20.99	20.96	20.92	20.86	
15	64QAM	36	39	21.02	20.95	20.96	20.80	20.81	
15	64QAM	75	0	20.85	20.97	20.93	20.87	20.75	21.5
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	Tune-up limit (dBm)
10	QPSK	1	0	23.31	23.60	23.61	23.35	23.31	24
10	QPSK	1	25	23.54	23.59	23.58	23.57	23.45	
10	QPSK	1	49	23.37	23.50	23.46	23.37	23.39	
10	QPSK	25	0	22.80	22.87	22.81	22.72	22.61	
10	QPSK	25	12	22.96	22.87	22.85	22.86	22.77	23.5
10	QPSK	25	25	22.80	22.87	22.77	22.68	22.64	
10	QPSK	50	0	22.83	22.84	22.84	22.81	22.68	
10	16QAM	1	0	22.73	22.79	22.86	22.73	22.71	
10	16QAM	1	25	22.99	22.93	22.86	22.80	22.75	23.5
10	16QAM	1	49	22.85	22.94	22.88	22.87	22.81	
10	16QAM	25	0	21.86	21.89	21.85	21.78	21.70	
10	16QAM	25	12	21.94	22.02	21.91	21.90	21.81	
10	16QAM	25	25	21.80	21.85	21.93	21.90	21.86	22.5
10	16QAM	50	0	21.86	21.78	21.83	21.78	21.78	
10	64QAM	1	0	21.49	21.59	21.54	21.48	21.48	
10	64QAM	1	25	21.70	21.77	21.74	21.63	21.58	
10	64QAM	1	49	21.58	21.66	21.61	21.52	21.58	22.5
10	64QAM	25	0	20.96	20.94	20.89	20.91	20.86	
10	64QAM	25	12	20.86	20.98	20.95	20.83	20.82	
10	64QAM	25	25	21.00	20.93	20.94	20.76	20.74	
10	64QAM	50	0	20.84	20.88	20.89	20.81	20.75	21.5
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	Tune-up limit (dBm)
5	QPSK	1	0	23.21	23.52	23.55	23.28	23.29	24
5	QPSK	1	12	23.51	23.56	23.53	23.57	23.36	
5	QPSK	1	24	23.30	23.48	23.42	23.34	23.37	
5	QPSK	12	0	22.72	22.78	22.76	22.71	22.56	
5	QPSK	12	7	22.93	22.77	22.78	22.81	22.70	23.5
5	QPSK	12	13	22.70	22.79	22.69	22.66	22.63	
5	QPSK	25	0	22.77	22.82	22.82	22.78	22.60	
5	16QAM	1	0	22.65	22.78	22.78	22.70	22.66	
5	16QAM	1	12	22.91	22.93	22.85	22.73	22.74	23.5
5	16QAM	1	24	22.78	22.93	22.82	22.81	22.74	
5	16QAM	12	0	21.84	21.88	21.76	21.75	21.68	
5	16QAM	12	7	21.87	21.93	21.89	21.84	21.71	
5	16QAM	12	13	21.75	21.76	21.86	21.81	21.86	22.5
5	16QAM	25	0	21.84	21.75	21.82	21.74	21.71	
5	64QAM	1	0	21.45	21.58	21.45	21.46	21.41	
5	64QAM	1	12	21.85	21.74	21.67	21.61	21.52	
5	64QAM	1	24	21.52	21.60	21.54	21.47	21.58	22.5
5	64QAM	12	0	20.89	20.90	20.85	20.87	20.85	
5	64QAM	12	7	20.78	20.95	20.89	20.74	20.79	
5	64QAM	12	13	20.97	20.85	20.94	20.71	20.73	
5	64QAM	25	0	20.79	20.87	20.85	20.81	20.68	21.5



Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	24
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.41	23.46	23.37	24
20	QPSK	1	49	23.23	23.39	23.26	
20	QPSK	1	99	23.15	23.24	23.09	
20	QPSK	50	0	22.47	22.55	22.42	23
20	QPSK	50	24	22.46	22.49	22.30	
20	QPSK	50	50	22.47	22.48	22.35	
20	QPSK	100	0	22.35	22.42	22.30	23
20	16QAM	1	0	22.38	22.46	22.34	
20	16QAM	1	49	22.46	22.50	22.31	
20	16QAM	1	99	22.29	22.30	22.16	22
20	16QAM	50	0	21.41	21.49	21.31	
20	16QAM	50	24	21.50	21.53	21.39	
20	16QAM	50	50	21.42	21.49	21.39	22
20	16QAM	100	0	21.39	21.43	21.23	
20	64QAM	1	0	21.25	21.30	21.19	
20	64QAM	1	49	21.49	21.58	21.43	22
20	64QAM	1	99	21.23	21.28	21.15	
20	64QAM	50	0	20.63	20.63	20.46	
20	64QAM	50	24	20.46	20.52	20.40	21
20	64QAM	50	50	20.50	20.56	20.41	
20	64QAM	100	0	20.45	20.50	20.36	
Channel				132047	132322	132597	24
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.25	23.46	23.19	24
15	QPSK	1	37	23.13	23.26	23.12	
15	QPSK	1	74	23.09	23.24	23.07	
15	QPSK	36	0	22.39	22.54	22.32	23
15	QPSK	36	20	22.39	22.45	22.22	
15	QPSK	36	39	22.38	22.38	22.28	
15	QPSK	75	0	22.26	22.35	22.23	23
15	16QAM	1	0	22.30	22.43	22.27	
15	16QAM	1	37	22.40	22.42	22.23	
15	16QAM	1	74	22.23	22.21	22.12	22
15	16QAM	36	0	21.34	21.47	21.29	
15	16QAM	36	20	21.44	21.48	21.35	
15	16QAM	36	39	21.38	21.49	21.33	22
15	16QAM	75	0	21.33	21.41	21.19	
15	64QAM	1	0	21.19	21.25	21.18	
15	64QAM	1	37	21.43	21.52	21.35	22
15	64QAM	1	74	21.21	21.23	21.13	
15	64QAM	36	0	20.57	20.60	20.42	
15	64QAM	36	20	20.41	20.46	20.36	21
15	64QAM	36	39	20.48	20.52	20.40	
15	64QAM	75	0	20.39	20.47	20.32	
Channel				132022	132322	132622	24
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.22	23.36	23.11	24
10	QPSK	1	25	23.04	23.19	23.03	
10	QPSK	1	49	23.03	23.19	23.06	
10	QPSK	25	0	22.32	22.45	22.28	23
10	QPSK	25	12	22.39	22.38	22.21	
10	QPSK	25	25	22.30	22.38	22.19	
10	QPSK	50	0	22.16	22.29	22.13	23
10	16QAM	1	0	22.25	22.34	22.27	
10	16QAM	1	25	22.35	22.37	22.17	
10	16QAM	1	49	22.18	22.12	22.11	22
10	16QAM	25	0	21.30	21.39	21.24	
10	16QAM	25	12	21.38	21.47	21.31	
10	16QAM	25	25	21.37	21.48	21.32	22
10	16QAM	50	0	21.27	21.33	21.13	
10	64QAM	1	0	21.18	21.18	21.14	
10	64QAM	1	25	21.35	21.44	21.34	21
10	64QAM	1	49	21.14	21.13	21.08	
10	64QAM	25	0	20.54	20.57	20.33	
10	64QAM	25	12	20.37	20.43	20.33	21
10	64QAM	25	25	20.42	20.46	20.38	
10	64QAM	50	0	20.36	20.39	20.31	
Channel				131997	132322	132647	24
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.15	23.31	23.06	24
5	QPSK	1	12	22.96	23.10	22.93	
5	QPSK	1	24	22.99	23.19	23.06	
5	QPSK	12	0	22.29	22.40	22.27	23
5	QPSK	12	7	22.38	22.35	22.15	
5	QPSK	12	13	22.26	22.33	22.13	
5	QPSK	25	0	22.10	22.28	22.09	23
5	16QAM	1	0	22.22	22.30	22.26	
5	16QAM	1	12	22.33	22.32	22.13	
5	16QAM	1	24	22.10	22.05	22.07	22
5	16QAM	12	0	21.25	21.30	21.16	
5	16QAM	12	7	21.31	21.38	21.24	
5	16QAM	12	13	21.34	21.44	21.30	22
5	16QAM	25	0	21.25	21.32	21.12	
5	64QAM	1	0	21.16	21.10	21.10	
5	64QAM	1	12	21.30	21.38	21.24	22
5	64QAM	1	24	21.14	21.13	21.00	
5	64QAM	12	0	20.48	20.50	20.24	
5	64QAM	12	7	20.29	20.34	20.28	21
5	64QAM	12	13	20.36	20.44	20.33	
5	64QAM	25	0	20.32	20.35	20.22	
Channel				131987	132322	132657	24
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.10	23.29	22.97	24
3	QPSK	1	8	22.95	23.05	22.88	
3	QPSK	1	14	22.93	23.18	23.05	
3	QPSK	8	0	22.19	22.32	22.22	



3	QPSK	8	4	22.30	22.33	22.10	23
3	QPSK	8	7	22.20	22.27	22.11	
3	QPSK	15	0	22.10	22.21	22.01	
3	16QAM	1	0	22.21	22.29	22.22	23
3	16QAM	1	8	22.32	22.30	22.10	
3	16QAM	1	14	22.03	22.02	22.00	
3	16QAM	8	0	21.21	21.23	21.06	22
3	16QAM	8	4	21.22	21.29	21.22	
3	16QAM	8	7	21.33	21.35	21.25	
3	16QAM	15	0	21.17	21.27	21.11	
3	64QAM	1	0	21.09	21.02	21.02	
3	64QAM	1	8	21.21	21.30	21.16	22
3	64QAM	1	14	21.13	21.11	21.00	
3	64QAM	8	0	20.44	20.42	20.19	
3	64QAM	8	4	20.21	20.33	20.25	21
3	64QAM	8	7	20.27	20.43	20.31	
3	64QAM	15	0	20.23	20.28	20.19	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.20	23.41	23.19	23.5
1.4	QPSK	1	3	23.19	23.21	23.09	
1.4	QPSK	1	5	23.08	23.20	23.04	
1.4	QPSK	3	0	22.45	22.48	22.31	
1.4	QPSK	3	1	22.36	22.46	22.28	
1.4	QPSK	3	3	22.38	22.40	22.32	
1.4	QPSK	6	0	22.28	22.35	22.24	22.5
1.4	16QAM	1	0	22.36	22.42	22.29	22.5
1.4	16QAM	1	3	22.45	22.46	22.28	
1.4	16QAM	1	5	22.20	22.27	22.14	
1.4	16QAM	3	0	21.38	21.49	21.26	
1.4	16QAM	3	1	21.48	21.45	21.29	
1.4	16QAM	3	3	21.38	21.49	21.38	
1.4	16QAM	6	0	21.33	21.40	21.18	21.5
1.4	64QAM	1	0	21.18	21.23	21.13	21.5
1.4	64QAM	1	3	21.40	21.54	21.40	
1.4	64QAM	1	5	21.15	21.19	21.10	
1.4	64QAM	3	0	20.54	20.56	20.39	
1.4	64QAM	3	1	20.36	20.47	20.39	
1.4	64QAM	3	3	20.48	20.46	20.39	
1.4	64QAM	6	0	20.36	20.41	20.35	20.5

**2.4GHz WLAN ANT 1**

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	18.38	19.00	18.00	99.55
		CH 6	2437	18.34	19.00	18.00	99.55
		CH 11	2462	16.92	17.50	18.00	99.55
	802.11g 6Mbps	CH 1	2412	16.99	17.50	17.00	96.94
		CH 6	2437	17.01	18.00	17.00	97.08
		CH 11	2462	17.48	18.00	17.00	97.08
	802.11n-HT20 MCS0	CH 1	2412	16.01	17.00	16.00	96.85
		CH 6	2437	15.92	16.50	16.00	96.70
		CH 11	2462	16.41	17.00	16.00	96.85

5.2GHz WLAN ANT 1

5.2GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	14.54	15.50	16.00	97.22
		CH 44	5220	14.74	15.50	16.00	97.22
		CH 48	5240	15.06	16.00	16.00	97.22
	802.11n-HT20 MCS0	CH 36	5180	15.48	16.00	17.00	95.52
		CH 44	5220	15.70	16.50	17.00	97.01
		CH 48	5240	15.70	16.50	17.00	96.97
	802.11n-HT40 MCS0	CH 36	5180	15.28	16.00	17.00	94.12
		CH 44	5220	15.73	16.50	17.00	94.12
		CH 48	5240	14.40	15.00	16.00	97.01
	802.11ac-VHT20 MCS0	CH 44	5220	14.83	15.50	16.00	97.01
		CH 48	5240	15.83	16.50	16.00	97.06
		CH 38	5190	14.45	15.00	16.00	94.29
	802.11ac-VHT40 MCS0	CH 46	5230	14.63	15.50	16.00	94.12
		CH 42	5210	14.58	15.50	16.00	89.47

5.3GHz WLAN ANT 1

5.3GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	15.47	16.00	16.00	97.22
		CH 60	5300	15.53	16.50	16.00	97.22
		CH 64	5320	15.72	16.50	16.00	97.22
	802.11n-HT20 MCS0	CH 52	5260	16.33	17.00	17.00	96.97
		CH 60	5300	16.46	17.00	17.00	95.52
		CH 64	5320	16.43	17.00	17.00	96.97
	802.11n-HT40 MCS0	CH 54	5270	16.37	17.00	17.00	91.18
		CH 62	5310	16.43	17.00	17.00	94.12
		CH 52	5260	15.31	16.00	16.00	97.01
	802.11ac-VHT20 MCS0	CH 60	5300	15.54	16.50	16.00	97.06
		CH 64	5320	15.35	16.00	16.00	97.06
		CH 54	5270	15.40	16.00	16.00	94.29
	802.11ac-VHT40 MCS0	CH 62	5310	15.48	16.00	16.00	94.29
		CH 58	5290	15.41	16.00	16.00	88.89

5.5GHz WLAN ANT 1

5.5GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	13.92	14.50	16.00	97.18
		CH 116	5580	14.06	15.00	16.00	97.18
		CH 144	5720	14.19	15.00	16.00	97.22
	802.11n-HT20 MCS0	CH 100	5500	14.08	15.00	17.00	96.97
		CH 116	5580	14.74	15.50	17.00	96.97
		CH 144	5720	15.04	16.00	17.00	95.52
	802.11n-HT40 MCS0	CH 102	5510	14.47	15.00	17.00	91.18
		CH 110	5550	14.82	15.50	17.00	94.12
		CH 142	5710	14.91	15.50	17.00	94.12
	802.11ac-VHT20 MCS0	CH 100	5500	13.69	14.50	16.00	97.06
		CH 116	5580	13.91	14.50	16.00	97.06
		CH 144	5720	14.05	15.00	16.00	97.06
	802.11ac-VHT40 MCS0	CH 102	5510	13.71	14.50	16.00	91.43
		CH 110	5550	13.75	14.50	16.00	94.29
		CH 142	5710	14.12	15.00	16.00	94.29
	802.11ac-VHT80 MCS0	CH 106	5530	13.61	14.50	16.00	88.89
		CH 122	5610	13.98	14.50	16.00	88.89
		CH 138	5690	14.23	15.00	16.00	84.21

5.8GHz WLAN ANT 1

5.8GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 148	5745	15.41	16.00	16.00	97.18
		CH 157	5785	15.57	16.50	16.00	97.22
		CH 165	5825	15.28	16.00	16.00	97.22
	802.11n-HT20 MCS0	CH 148	5745	16.26	17.00	17.00	96.97
		CH 157	5785	16.46	17.00	17.00	97.01
		CH 165	5825	16.10	17.00	17.00	95.52
	802.11n-HT40 MCS0	CH 151	5755	16.11	17.00	17.00	94.12
		CH 159	5795	16.24	17.00	17.00	91.18
		CH 149	5745	15.38	16.00	16.00	97.06
	802.11ac-VHT20 MCS0	CH 157	5785	15.44	16.00	16.00	97.01
		CH 165	5825	15.15	16.00	16.00	97.06
		CH 151	5755	15.06	16.00	16.00	91.43
	802.11ac-VHT40 MCS0	CH 159	5795	15.38	16.00	16.00	94.29
		CH 155	5775	15.26	16.00	16.00	88.89

Mode	Channel	Frequency (MHz)	1Mbps			2Mbps		
			Average power (dBm)	Tune-up Limit	Duty Cycle %	Average power (dBm)	Tune-up Limit	Duty Cycle %
LE	CH 00	2402	1.88	2.50	85.12	0.08	1.00	57.16
	CH 19	2440	2.79	3.50	85.12	1.25	2.00	57.17
	CH 78	2480	2.37	3.00	85.12	0.80	1.50	57.17
Power Setting			default			default		

Mode	Channel	Frequency (MHz)	1Mbps			2Mbps			3Mbps		
			Average power (dBm)	Tune-up Limit	Duty Cycle %	Average power (dBm)	Tune-up Limit	Duty Cycle %	Average power (dBm)	Tune-up Limit	Duty Cycle %
BR / EDR	CH 00	2402	10.97	11.50	76.91	9.95	10.50	76.99	9.79	10.50	77.01
	CH 39	2441	10.71	11.50	76.91	10.00	11.00	76.96	9.98	10.50	77.16
	CH 78	2480	11.07	12.00	76.91	10.33	11.00	76.99	10.29	11.00	77.04
Power Setting			default			default			default		



Reduced Power Level 1

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)								
GSM 1 Tx slot	28.51	28.46	28.59	29.50	19.51	19.46	19.59	20.50
GPRS 1 Tx slot	28.40	28.39	28.55	29.50	19.40	19.39	19.55	20.50
GPRS 2 Tx slots	27.73	27.85	27.80	28.50	21.73	21.85	21.80	22.50
GPRS 3 Tx slots	25.71	25.76	25.74	26.50	21.45	21.50	21.48	22.24
GPRS 4 Tx slots	25.05	25.10	25.02	26.00	22.05	22.10	22.02	23.00
EDGE 1 Tx slot	23.19	23.23	23.14	24.00	14.19	14.23	14.14	15.00
EDGE 2 Tx slots	22.22	22.18	22.27	23.00	16.22	16.18	16.27	17.00
EDGE 3 Tx slots	20.12	20.09	20.22	21.00	15.86	15.83	15.96	16.74
EDGE 4 Tx slots	19.26	19.15	19.19	20.00	16.26	16.15	16.19	17.00
Mode		Max.	28.59			Max.		22.10
Attenuator	Cable Loss : 0.6							
Date	7/14							

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)								
GSM 1 Tx slot	22.32	22.52	22.36	23.50	13.32	13.52	13.36	14.50
GPRS 1 Tx slot	22.28	22.42	22.30	23.50	13.28	13.42	13.30	14.50
GPRS 2 Tx slots	21.15	21.21	21.26	22.00	15.15	15.21	15.26	16.00
GPRS 3 Tx slots	19.56	19.44	19.40	20.50	15.30	15.18	15.14	16.24
GPRS 4 Tx slots	18.64	18.65	18.61	19.50	15.64	15.65	15.61	16.50
EDGE 1 Tx slot	19.68	19.61	19.56	20.50	10.68	10.61	10.56	11.50
EDGE 2 Tx slots	18.91	19.05	18.94	20.00	12.91	13.05	12.94	14.00
EDGE 3 Tx slots	17.56	17.69	17.64	18.50	13.30	13.43	13.38	14.24
EDGE 4 Tx slots	16.68	16.69	16.61	17.50	13.68	13.69	13.61	14.50
Mode		Max.	22.52			Max.		15.65
Attenuator	Cable Loss : 0.8							
Date	7/14							

Band		WCDMA Band II (dBm)_Ant 1			Tune-up Limit (dBm)	WCDMA Band IV (dBm)_Ant 1			Tune-up Limit (dBm)	WCDMA Band V (dBm)_Ant 1			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	17.33	17.46	17.42	18.00	18.69	18.71	18.61	19.00	22.16	22.28	22.21	23.00
3GPP Rel 5	HSDPA Subtest-1	17.33	17.46	17.42	18.00	18.69	18.71	18.61	19.00	22.16	22.28	22.21	22.50
3GPP Rel 5	HSDPA Subtest-2	16.50	16.78	16.67	17.50	17.29	17.27	17.75	18.50	21.81	21.79	21.68	22.50
3GPP Rel 5	HSDPA Subtest-3	16.45	16.59	16.29	17.50	17.33	17.05	16.93	18.50	21.59	21.61	21.63	22.00
3GPP Rel 5	HSDPA Subtest-4	16.25	16.19	16.47	17.00	17.19	17.01	16.96	18.00	20.96	20.85	21.19	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	16.13	16.28	16.26	17.00	17.08	17.74	16.95	18.00	20.85	20.76	21.05	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	16.85	16.67	16.53	17.50	17.98	17.97	17.89	18.50	21.79	21.86	21.73	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	15.75	15.60	15.48	16.50	16.59	16.90	16.81	17.50	20.89	20.64	20.61	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	14.25	14.06	13.96	15.00	15.38	15.41	15.31	16.00	20.79	20.88	20.82	22.00
3GPP Rel 6	HSUPA Subtest-1	14.21	14.04	13.94	15.00	15.40	15.35	15.31	16.00	20.02	20.21	20.17	21.00
3GPP Rel 6	HSUPA Subtest-2	15.66	15.47	15.37	16.00	16.78	16.76	16.59	17.50	21.19	21.26	21.31	20.50
3GPP Rel 6	HSUPA Subtest-3	16.17	16.01	15.90	17.00	17.27	17.24	17.12	18.00	21.12	21.19	21.26	21.00
3GPP Rel 6	HSUPA Subtest-4	14.69	14.49	14.35	15.00	15.80	15.75	15.57	16.50	20.37	20.37	20.40	20.50
3GPP Rel 6	HSUPA Subtest-5	15.55	15.66	15.68	16.50	16.66	16.29	16.27	16.50	20.82	20.88	20.56	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.79	16.03	16.17	17.00	16.72	16.82	16.91	18.00	20.86	20.84	20.88	22.00
Attenuator		15.56	15.48	15.49	16.00	16.47	16.44	17.00	18.00	20.43	20.40	20.37	21.00
Mode			Max.	17.46			Max.	18.71			Max.	22.28	
Date		7/14				7/14				7/14			



Band 2 (1900MHz Band) (dBm) Part 24E_Ant 1								
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	16.32	16.42	16.21	17	
20	QPSK	1	49	16.07	16.21	16.05		
20	QPSK	1	99	15.99	16.16	16.01		
20	QPSK	50	0	15.30	15.47	15.36	16	
20	QPSK	50	24	15.31	15.43	15.28		
20	QPSK	50	50	15.28	15.41	15.25		
20	QPSK	100	0	15.27	15.44	15.27	16	
20	16QAM	1	0	15.05	15.18	14.99		
20	16QAM	1	49	15.09	15.28	15.15		
20	16QAM	1	99	14.86	15.01	14.84	15	
20	16QAM	50	0	14.29	14.42	14.23		
20	16QAM	50	24	14.26	14.38	14.24		
20	16QAM	50	50	14.42	14.53	14.37	15	
20	16QAM	100	0	14.27	14.40	14.23		
20	64QAM	1	0	13.94	14.07	13.91		
20	64QAM	1	49	14.14	14.28	14.16	15	
20	64QAM	1	99	13.83	14.02	13.82		
20	64QAM	50	0	13.38	13.52	13.41		
20	64QAM	50	24	13.15	13.33	13.16	14	
20	64QAM	50	50	13.29	13.42	13.32		
20	64QAM	100	0	13.26	13.45	13.34		
Channel				18675	18900	19125	Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	16.22	16.28	16.18	17	
15	QPSK	1	37	15.90	16.10	15.91		
15	QPSK	1	74	15.79	15.99	15.88		
15	QPSK	36	0	15.11	15.30	15.23	16	
15	QPSK	36	20	15.16	15.25	15.11		
15	QPSK	36	39	15.14	15.22	15.07		
15	QPSK	75	0	15.07	15.32	15.10	16	
15	16QAM	1	0	14.89	15.06	14.84		
15	16QAM	1	37	14.91	15.12	14.99		
15	16QAM	1	74	14.75	14.85	14.71	15	
15	16QAM	36	0	14.17	14.23	14.13		
15	16QAM	36	20	14.14	14.24	14.12		
15	16QAM	36	39	14.27	14.42	14.25	15	
15	16QAM	75	0	14.11	14.24	14.12		
15	64QAM	1	0	13.80	13.88	13.79		
15	64QAM	1	37	14.00	14.13	14.04	15	
15	64QAM	1	74	13.69	13.86	13.63		
15	64QAM	36	0	13.25	13.34	13.27		
15	64QAM	36	20	12.98	13.19	12.98	14	
15	64QAM	36	39	13.10	13.22	13.21		
15	64QAM	75	0	13.09	13.31	13.16		
Channel				18650	18900	19150	Tune-up limit (dBm)	
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	16.05	16.11	16.07	17	
10	QPSK	1	25	15.75	15.90	15.81		
10	QPSK	1	49	15.61	15.80	15.77		
10	QPSK	25	0	14.97	15.20	15.04	16	
10	QPSK	25	12	14.98	15.14	15.01		
10	QPSK	25	25	14.94	15.02	14.92		
10	QPSK	50	0	14.88	15.15	14.98	16	
10	16QAM	1	0	14.77	14.96	14.65		
10	16QAM	1	25	14.72	14.99	14.88		
10	16QAM	1	49	14.56	14.74	14.56	15	
10	16QAM	25	0	14.04	14.06	14.02		
10	16QAM	25	12	13.97	14.05	13.99		
10	16QAM	25	25	14.15	14.22	14.13	15	
10	16QAM	50	0	14.00	14.09	14.00		
10	64QAM	1	0	13.61	13.77	13.69		
10	64QAM	1	25	13.83	13.94	13.92	15	
10	64QAM	1	49	13.50	13.71	13.50		
10	64QAM	25	0	13.15	13.18	13.15		
10	64QAM	25	12	12.82	13.06	12.84	14	
10	64QAM	25	25	12.98	13.10	13.09		
10	64QAM	50	0	12.96	13.19	13.05		
Channel				18625	18900	19175	Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	15.91	15.97	15.97	17	
5	QPSK	1	12	15.62	15.74	15.68		
5	QPSK	1	24	15.50	15.65	15.61		
5	QPSK	12	0	14.82	15.05	14.89	16	
5	QPSK	12	7	14.79	14.95	14.89		
5	QPSK	12	13	14.78	14.83	14.74		
5	QPSK	25	0	14.70	14.96	14.85	16	
5	16QAM	1	0	14.63	14.80	14.69		
5	16QAM	1	12	14.60	14.82	14.75		
5	16QAM	1	24	14.40	14.57	14.38	15	
5	16QAM	12	0	13.89	13.87	13.85		
5	16QAM	12	7	13.84	13.91	13.82		
5	16QAM	12	13	14.02	14.02	13.95	15	
5	16QAM	25	0	13.85	13.94	13.84		
5	64QAM	1	0	13.42	13.63	13.54		
5	64QAM	1	12	13.64	13.74	13.74	15	
5	64QAM	1	24	13.33	13.61	13.40		
5	64QAM	12	0	12.97	13.01	13.03		
5	64QAM	12	7	12.65	12.91	12.70	14	
5	64QAM	12	13	12.80	12.93	12.93		
5	64QAM	25	0	12.79	13.06	12.86		
Channel				18615	18900	19185	Tune-up limit (dBm)	
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	15.76	15.82	15.87	17	
3	QPSK	1	8	15.49	15.59	15.48		
3	QPSK	1	14	15.38	15.53	15.44		
3	QPSK	8	0	14.72	14.92	14.72		

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)_Ant 1								
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	18.16	18.31	18.16	19	
20	QPSK	1	49	18.11	18.22	18.03		
20	QPSK	1	99	18.02	18.16	17.99		
20	QPSK	50	0	17.31	17.44	17.30	18	
20	QPSK	50	24	17.22	17.39	17.27		
20	QPSK	50	50	17.13	17.32	17.13		
20	QPSK	100	0	17.31	17.42	17.28	18	
20	16QAM	1	0	17.21	17.31	17.12		
20	16QAM	1	49	17.30	17.41	17.28		
20	16QAM	1	99	16.96	17.14	17.00	17	
20	16QAM	50	0	16.20	16.39	16.27		
20	16QAM	50	24	16.21	16.37	16.20		
20	16QAM	50	50	16.13	16.28	16.13	17	
20	16QAM	100	0	16.15	16.33	16.19		
20	64QAM	1	0	15.98	16.14	16.02		
20	64QAM	1	49	16.06	16.24	16.09	17	
20	64QAM	1	99	16.15	16.27	16.07		
20	64QAM	50	0	15.20	15.35	15.22		
20	64QAM	50	24	15.33	15.45	15.35	16	
20	64QAM	50	50	15.17	15.35	15.21		
20	64QAM	100	0	15.28	15.47	15.34		
Channel				20025	20175	20325	Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	18.04	18.16	17.98	19	
15	QPSK	1	37	18.00	18.11	17.87		
15	QPSK	1	74	17.89	18.04	17.87		
15	QPSK	36	0	17.13	17.27	17.18	18	
15	QPSK	36	20	17.03	17.26	17.09		
15	QPSK	36	39	16.93	17.13	16.97		
15	QPSK	75	0	17.15	17.25	17.09	18	
15	16QAM	1	0	17.01	17.19	17.00		
15	16QAM	1	37	17.12	17.24	17.14		
15	16QAM	1	74	16.85	17.04	16.87	17	
15	16QAM	36	0	16.02	16.21	16.07		
15	16QAM	36	20	16.07	16.26	16.00		
15	16QAM	36	39	15.98	16.11	15.95	17	
15	16QAM	75	0	15.95	16.16	16.05		
15	64QAM	1	0	15.85	16.01	15.88		
15	64QAM	1	37	15.94	16.05	15.97	17	
15	64QAM	1	74	16.01	16.12	15.92		
15	64QAM	36	0	15.09	15.21	15.11		
15	64QAM	36	20	15.22	15.33	15.21	16	
15	64QAM	36	39	14.99	15.16	15.09		
15	64QAM	75	0	15.11	15.34	15.20		
Channel				20000	20175	20350	Tune-up limit (dBm)	
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	17.90	18.05	17.81	19	
10	QPSK	1	25	17.89	17.95	17.70		
10	QPSK	1	49	17.78	17.84	17.69		
10	QPSK	25	0	17.01	17.17	16.99	18	
10	QPSK	25	12	16.84	17.06	16.97		
10	QPSK	25	25	16.80	16.95	16.86		
10	QPSK	50	0	16.98	17.12	16.91	18	
10	16QAM	1	0	16.86	17.04	16.88		
10	16QAM	1	25	16.99	17.12	16.95		
10	16QAM	1	49	16.70	16.85	16.70	17	
10	16QAM	25	0	15.89	16.04	15.93		
10	16QAM	25	12	15.96	16.16	15.89		
10	16QAM	25	25	15.78	16.01	15.78	17	
10	16QAM	50	0	15.84	15.98	15.86		
10	64QAM	1	0	15.71	15.84	15.72		
10	64QAM	1	25	15.82	15.86	15.83	17	
10	64QAM	1	49	15.90	16.01	15.74		
10	64QAM	25	0	14.97	15.07	14.96		
10	64QAM	25	12	15.07	15.21	15.08	16	
10	64QAM	25	25	14.88	15.03	14.99		
10	64QAM	50	0	15.00	15.21	15.06		
Channel				19975	20175	20375	Tune-up limit (dBm)	
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	17.78	17.90	17.70	19	
5	QPSK	1	12	17.75	17.80	17.56		
5	QPSK	1	24	17.67	17.66	17.50		
5	QPSK	12	0	16.88	17.04	16.83	18	
5	QPSK	12	7	16.65	16.91	16.83		
5	QPSK	12	13	16.64	16.77	16.70		
5	QPSK	25	0	16.86	17.00	16.79	18	
5	16QAM	1	0	16.71	16.89	16.76		
5	16QAM	1	12	16.87	17.01	16.78		
5	16QAM	1	24	16.54	16.72	16.55	17	
5	16QAM	12	0	15.73	15.90	15.81		
5	16QAM	12	7	15.79	15.99	15.73		
5	16QAM	12	13	15.68	15.90	15.59	17	
5	16QAM	25	0	15.68	15.86	15.74		
5	64QAM	1	0	15.56	15.65	15.61		
5	64QAM	1	12	15.70	15.70	15.66	17	
5	64QAM	1	24	15.75	15.85	15.63		
5	64QAM	12	0	14.86	14.95	14.82		
5	64QAM	12	7	14.92	15.09	14.94	16	
5	64QAM	12	13	14.76	14.89	14.89		
5	64QAM	25	0	14.82	15.07	14.90		
Channel				19965	20175	20385	Tune-up limit (dBm)	
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	17.66	17.71	17.58	19	
3	QPSK	1	8	17.61	17.68	17.44		
3	QPSK	1	14	17.52	17.55	17.40		
3	QPSK	8	0	16.70	16.86	16.72		



3	QPSK	8	4	14.68	14.79	14.75	16
3	QPSK	8	7	14.67	14.72	14.54	
3	QPSK	15	0	14.52	14.76	14.74	
3	16QAM	1	0	14.46	14.61	14.33	16
3	16QAM	1	8	14.40	14.69	14.55	
3	16QAM	1	14	14.25	14.40	14.22	
3	16QAM	8	0	13.69	13.75	13.74	15
3	16QAM	8	4	13.67	13.74	13.62	
3	16QAM	8	7	13.86	13.89	13.81	
3	16QAM	15	0	13.70	13.81	13.68	15
3	64QAM	1	0	13.30	13.48	13.39	
3	64QAM	1	8	13.49	13.57	13.56	
3	64QAM	1	14	13.19	13.46	13.20	14
3	64QAM	8	0	12.82	12.88	12.89	
3	64QAM	8	4	12.46	12.80	12.55	
3	64QAM	8	7	12.66	12.77	12.74	14
3	64QAM	15	0	12.62	12.88	12.68	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.59	15.63	15.67	
1.4	QPSK	1	3	15.36	15.46	15.35	17
1.4	QPSK	1	5	15.20	15.39	15.27	
1.4	QPSK	3	0	14.59	14.81	14.61	
1.4	QPSK	3	1	14.54	14.66	14.64	16
1.4	QPSK	3	3	14.49	14.57	14.41	
1.4	QPSK	6	0	14.36	14.56	14.54	
1.4	16QAM	1	0	14.36	14.41	14.14	22
1.4	16QAM	1	3	14.24	14.54	14.42	
1.4	16QAM	1	5	14.11	14.21	14.06	
1.4	16QAM	3	0	13.51	13.55	13.60	15
1.4	16QAM	3	1	13.49	13.59	13.48	
1.4	16QAM	3	3	13.71	13.71	13.64	
1.4	16QAM	6	0	13.54	13.69	13.49	21
1.4	64QAM	1	0	13.13	13.32	13.27	
1.4	64QAM	1	3	13.36	13.45	13.44	
1.4	64QAM	1	5	13.05	13.34	13.03	14
1.4	64QAM	3	0	12.65	12.71	12.69	
1.4	64QAM	3	1	12.36	12.61	12.39	
1.4	64QAM	3	3	12.54	12.63	12.58	14
1.4	64QAM	6	0	12.52	12.70	12.51	

3	QPSK	8	4	16.46	16.75	16.69	18
3	QPSK	8	7	16.49	16.58	16.54	
3	QPSK	15	0	16.74	16.88	16.68	
3	16QAM	1	0	16.57	16.72	16.63	18
3	16QAM	1	8	16.71	16.86	16.66	
3	16QAM	1	14	16.35	16.54	16.42	
3	16QAM	8	0	15.53	15.71	15.71	17
3	16QAM	8	4	15.69	15.82	15.54	
3	16QAM	8	7	15.53	15.73	15.40	
3	16QAM	15	0	15.54	15.71	15.57	17
3	64QAM	1	0	15.40	15.51	15.48	
3	64QAM	1	8	15.56	15.60	15.49	
3	64QAM	1	14	15.61	15.68	15.50	16
3	64QAM	8	0	14.73	14.78	14.70	
3	64QAM	8	4	14.79	14.96	14.76	
3	64QAM	8	7	14.58	14.73	14.72	16
3	64QAM	15	0	14.63	14.96	14.76	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.03	18.19	18.03	
1.4	QPSK	1	3	17.98	18.09	17.93	19
1.4	QPSK	1	5	17.87	18.00	17.87	
1.4	QPSK	3	0	17.20	17.33	17.19	
1.4	QPSK	3	1	17.11	17.20	17.13	18
1.4	QPSK	3	3	17.26	17.15	17.33	
1.4	QPSK	6	0	17.19	17.24	17.16	
1.4	16QAM	1	0	17.05	17.16	16.97	18
1.4	16QAM	1	3	17.18	17.29	17.13	
1.4	16QAM	1	5	16.78	16.96	16.86	
1.4	16QAM	3	0	16.01	16.23	16.08	17
1.4	16QAM	3	1	16.22	16.21	16.09	
1.4	16QAM	3	3	16.08	16.11	16.26	
1.4	16QAM	6	0	16.00	16.21	16.00	16
1.4	64QAM	1	0	15.82	16.00	15.89	
1.4	64QAM	1	3	15.93	16.09	15.90	
1.4	64QAM	1	5	16.00	16.10	15.95	16
1.4	64QAM	3	0	15.01	15.24	15.07	
1.4	64QAM	3	1	15.16	15.34	15.15	
1.4	64QAM	3	3	15.01	15.15	15.01	16
1.4	64QAM	6	0	15.13	15.35	15.18	



Band 5 (Cellular Band) (dBm) Part 22H(only on channel required)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	23
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.34	22.38	22.29	22
10	QPSK	1	25	22.13	22.29	22.13	
10	QPSK	1	49	22.11	22.30	22.18	21
10	QPSK	25	0	21.31	21.44	21.31	
10	QPSK	25	12	21.32	21.45	21.28	20
10	QPSK	25	25	21.29	21.42	21.24	
10	QPSK	50	0	21.38	21.50	21.35	19
10	QPSK	1	0	21.34	21.51	21.35	
10	16QAM	1	25	21.40	21.57	21.39	18
10	16QAM	1	49	21.45	21.62	21.50	
10	16QAM	25	0	20.35	20.46	20.30	17
10	16QAM	25	12	20.26	20.44	20.32	
10	16QAM	25	25	20.43	20.55	20.35	16
10	16QAM	50	0	20.34	20.51	20.38	
10	64QAM	1	0	20.35	20.52	20.32	15
10	64QAM	1	25	20.51	20.65	20.52	
10	64QAM	1	49	20.37	20.49	20.39	14
10	64QAM	25	0	19.29	19.40	19.29	
10	64QAM	25	12	19.19	19.36	19.19	13
10	64QAM	25	25	19.28	19.39	19.23	
10	64QAM	50	0	19.26	19.45	19.34	12
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	23
5	QPSK	1	0	22.09	22.26	22.22	
5	QPSK	1	12	22.02	22.11	21.96	22
5	QPSK	1	24	21.92	22.12	22.03	
5	QPSK	12	0	21.13	21.31	21.18	21
5	QPSK	12	7	21.15	21.33	21.08	
5	QPSK	12	13	21.14	21.31	21.07	20
5	QPSK	25	0	21.26	21.40	21.17	
5	16QAM	1	0	21.19	21.33	21.23	19
5	16QAM	1	12	21.26	21.44	21.24	
5	16QAM	1	24	21.28	21.47	21.32	18
5	16QAM	12	0	20.16	20.28	20.16	
5	16QAM	12	7	20.10	20.33	20.20	17
5	16QAM	12	13	20.24	20.37	20.20	
5	16QAM	25	0	20.20	20.34	20.24	16
5	64QAM	1	0	20.20	20.39	20.19	
5	64QAM	1	12	20.39	20.54	20.34	15
5	64QAM	1	24	20.19	20.29	20.26	
5	64QAM	12	0	19.19	19.22	19.19	14
5	64QAM	12	7	19.01	19.19	19.05	
5	64QAM	12	13	19.13	19.25	19.07	13
5	64QAM	25	0	19.10	19.29	19.19	
Channel				20415	20525	20635	23
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	21.90	22.12	22.03	22
3	QPSK	1	8	21.86	22.00	21.85	
3	QPSK	1	14	21.79	21.93	21.90	21
3	QPSK	8	0	21.01	21.20	20.98	
3	QPSK	8	4	21.01	21.15	20.90	20
3	QPSK	8	7	20.99	21.11	20.89	
3	QPSK	15	0	21.09	21.24	20.99	19
3	16QAM	1	0	21.06	21.15	21.09	
3	16QAM	1	8	21.14	21.29	21.12	18
3	16QAM	1	14	21.08	21.30	21.12	
3	16QAM	8	0	20.03	20.13	20.03	17
3	16QAM	8	4	19.95	20.16	20.04	
3	16QAM	8	7	20.12	20.25	20.00	16
3	16QAM	15	0	20.01	20.19	20.06	
3	64QAM	1	0	20.01	20.26	20.02	15
3	64QAM	1	8	20.21	20.38	20.24	
3	64QAM	1	14	20.03	20.18	20.09	14
3	64QAM	8	0	19.03	19.10	19.04	
3	64QAM	8	4	18.89	18.99	18.86	13
3	64QAM	8	7	19.02	19.12	18.91	
3	64QAM	15	0	18.95	19.11	19.04	12
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	23
1.4	QPSK	1	0	22.10	22.27	22.18	
1.4	QPSK	1	3	21.95	22.16	21.98	22
1.4	QPSK	1	5	21.99	22.11	21.99	
1.4	QPSK	3	0	21.21	21.30	21.16	21
1.4	QPSK	3	1	21.15	21.33	21.18	
1.4	QPSK	3	3	21.15	21.29	21.14	20
1.4	QPSK	6	0	21.24	21.32	21.20	
1.4	16QAM	1	0	21.22	21.32	21.19	19
1.4	16QAM	1	3	21.24	21.42	21.25	
1.4	16QAM	1	5	21.28	21.48	21.32	18
1.4	16QAM	3	0	20.21	20.35	20.19	
1.4	16QAM	3	1	20.11	20.31	20.14	17
1.4	16QAM	3	3	20.29	20.43	20.23	
1.4	16QAM	6	0	20.23	20.32	20.26	16
1.4	64QAM	1	0	20.18	20.35	20.15	
1.4	64QAM	1	3	20.34	20.52	20.34	15
1.4	64QAM	1	5	20.26	20.34	20.26	
1.4	64QAM	3	0	19.16	19.26	19.17	14
1.4	64QAM	3	1	19.08	19.19	19.05	
1.4	64QAM	3	3	19.14	19.20	19.06	13
1.4	64QAM	6	0	19.14	19.33	19.22	

Band 7 (2600MHz Band) (dBm) Part 27_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	23
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.89	16.96	17.04	18
20	QPSK	1	49	16.81	16.91	16.98	
20	QPSK	1	99	16.73	16.76	16.57	17
20	QPSK	50	0	16.08	16.04	16.16	
20	QPSK	50	24	15.95	16.01	15.93	16
20	QPSK	50	50	16.02	16.10	15.90	
20	QPSK	100	0	15.97	15.98	15.88	15
20	16QAM	1	0	16.04	16.13	15.97	
20	16QAM	1	49	16.21	16.25	16.10	14
20	16QAM	1	99	16.26	16.29	16.15	
20	16QAM	50	0	15.04	15.11	15.01	13
20	16QAM	50	24	15.02	15.12	14.95	
20	16QAM	50	50	14.95	15.03	14.86	12
20	16QAM	100	0	15.06	15.06	14.89	
20	64QAM	1	0	14.89	14.93	14.79	11
20	64QAM	1	49	14.86	14.89	14.73	
20	64QAM	1	99	14.78	14.84	14.70	10
20	64QAM	50	0	14.04	14.08	13.95	
20	64QAM	50	24	14.03	14.04	13.91	9
20	64QAM	50	50	14.12	14.16	14.06	
20	64QAM	100	0	14.03	14.06	13.91	8
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	23
15	QPSK	1	0	16.77	16.98	16.89	
15	QPSK	1	37	16.84	16.96	16.77	22
15	QPSK	1	74	16.69	16.69	16.55	
15	QPSK	36	0	15.88	16.03	15.84	21
15	QPSK	36	20	15.94	16.00	15.84	
15	QPSK	36	39	15.98	16.03	15.80	20
15	QPSK	75	0	15.94	15.92	15.82	
15	16QAM	1	0	16.02	16.04	15.94	19
15	16QAM	1	37	16.21	16.23	16.06	
15	16QAM	1	74	16.23	16.26	16.09	18
15	16QAM	36	0	15.02	15.09	15.01	
15	16QAM	36	20	14.95	15.11	14.89	17
15	16QAM	36	39	14.92	14.95	14.77	
15	16QAM	75	0	14.98	15.05	14.83	16
15	64QAM	1	0	14.88	14.84	14.75	
15	64QAM	1	37	14.80	14.86	14.66	15
15	64QAM	1	74	14.78	14.77	14.66	
15	64QAM	36	0	13.99	13.98	13.94	14
15	64QAM	36	20	13.94	13.94	13.86	
15	64QAM	36	39	14.02	14.10	14.03	13
15	64QAM	75	0	14.00	14.02	13.91	
Channel				20800	21100	21400	23
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.68	16.93	16.80	18
10	QPSK	1	25	16.74	16.93	16.72	
10	QPSK	1	49	16.63	16.67	16.46	17
10	QPSK	25	0	15.82	16.00	15.79	
10	QPSK	25	12	15.93	15.94	15.76	16
10	QPSK	25	25	15.89	16.02	15.78	
10	QPSK	50	0	15.93	15.91	15.78	15
10	16QAM	1	0	16.02	16.03	15.84	
10	16QAM	1	25	16.12	16.21	15.99	14
10	16QAM	1	49	16.13	16.20	16.04	
10	16QAM	25	0	15.01	15.01	14.98	13
10	16QAM	25	12	14.93	15.04	14.88	
10	16QAM	25	25	14.82	14.93	14.76	12
10	16QAM	50	0	14.91	15.03	14.76	
10	64QAM	1	0	14.88	14.79	14.72	11
10	64QAM	1	25	14.70	14.76	14.58	
10	64QAM	1	49	14.72	14.71	14.58	1



Band 26 for FCC (dBm) (only on channel required)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.21	22.45	22.22	23
15	QPSK	1	37	22.31	22.31	22.17	
15	QPSK	1	74	22.31	22.40	22.25	
15	QPSK	36	0	21.41	21.45	21.34	22
15	QPSK	36	20	21.40	21.41	21.32	
15	QPSK	36	39	21.36	21.38	21.29	
15	QPSK	75	0	21.29	21.35	21.30	22
15	16QAM	1	0	21.21	21.30	21.18	
15	16QAM	1	37	21.31	21.32	21.13	
15	16QAM	1	74	21.46	21.50	21.36	21
15	16QAM	36	0	20.33	20.34	20.24	
15	16QAM	36	20	20.33	20.41	20.26	
15	16QAM	36	39	20.52	20.53	20.40	21
15	16QAM	75	0	20.44	20.47	20.37	
15	64QAM	1	0	20.37	20.40	20.28	
15	64QAM	1	37	20.52	20.53	20.38	20
15	64QAM	1	74	20.45	20.47	20.35	
15	64QAM	36	0	19.38	19.39	19.29	
15	64QAM	36	20	19.54	19.57	19.42	20
15	64QAM	36	39	19.66	19.68	19.58	
15	64QAM	75	0	19.36	19.45	19.33	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.19	22.44	22.12	23
10	QPSK	1	25	22.25	22.29	22.10	
10	QPSK	1	49	22.24	22.40	22.17	
10	QPSK	25	0	21.37	21.42	21.27	22
10	QPSK	25	12	21.37	21.45	21.31	
10	QPSK	25	25	21.47	21.58	21.44	
10	QPSK	50	0	21.35	21.42	21.30	22
10	16QAM	1	0	21.14	21.21	21.14	
10	16QAM	1	25	21.28	21.31	21.13	
10	16QAM	1	49	21.39	21.41	21.33	21
10	16QAM	25	0	20.25	20.29	20.22	
10	16QAM	25	12	20.27	20.40	20.21	
10	16QAM	25	25	20.49	20.46	20.37	21
10	16QAM	50	0	20.41	20.38	20.29	
10	64QAM	1	0	20.36	20.35	20.24	
10	64QAM	1	25	20.48	20.44	20.32	20
10	64QAM	1	49	20.36	20.39	20.28	
10	64QAM	25	0	19.35	19.37	19.24	
10	64QAM	25	12	19.50	19.55	19.34	20
10	64QAM	25	25	19.63	19.67	19.51	
10	64QAM	50	0	19.27	19.36	19.32	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.11	22.44	22.09	23
5	QPSK	1	12	22.20	22.25	22.05	
5	QPSK	1	24	22.16	22.38	22.08	
5	QPSK	12	0	21.36	21.34	21.25	22
5	QPSK	12	7	21.28	21.38	21.28	
5	QPSK	12	13	21.41	21.53	21.39	
5	QPSK	25	0	21.32	21.41	21.29	22
5	16QAM	1	0	21.10	21.15	21.08	
5	16QAM	1	12	21.23	21.24	21.09	
5	16QAM	1	24	21.31	21.34	21.28	21
5	16QAM	12	0	20.19	20.22	20.21	
5	16QAM	12	7	20.22	20.32	20.14	
5	16QAM	12	13	20.49	20.45	20.30	21
5	16QAM	25	0	20.32	20.36	20.27	
5	64QAM	1	0	20.33	20.35	20.15	
5	64QAM	1	12	20.39	20.38	20.28	20
5	64QAM	1	24	20.28	20.34	20.21	
5	64QAM	12	0	19.28	19.29	19.18	
5	64QAM	12	7	19.47	19.45	19.32	20
5	64QAM	12	13	19.61	19.65	19.48	
5	64QAM	25	0	19.18	19.32	19.26	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.08	22.38	22.00	23
3	QPSK	1	8	22.18	22.24	21.99	
3	QPSK	1	14	22.11	22.34	21.98	
3	QPSK	8	0	21.31	21.30	21.20	22
3	QPSK	8	4	21.20	21.32	21.21	
3	QPSK	8	7	21.38	21.45	21.30	
3	QPSK	15	0	21.25	21.31	21.25	22
3	16QAM	1	0	21.07	21.12	21.01	
3	16QAM	1	8	21.14	21.21	21.01	
3	16QAM	1	14	21.30	21.26	21.21	21
3	16QAM	8	0	20.09	20.13	20.21	
3	16QAM	8	4	20.14	20.31	20.10	
3	16QAM	8	7	20.48	20.35	20.28	21
3	16QAM	15	0	20.28	20.36	20.26	
3	64QAM	1	0	20.28	20.28	20.12	
3	64QAM	1	8	20.36	20.37	20.25	20
3	64QAM	1	14	20.20	20.24	20.19	
3	64QAM	8	0	19.27	19.24	19.15	
3	64QAM	8	4	19.40	19.38	19.28	20
3	64QAM	8	7	19.55	19.61	19.42	
3	64QAM	15	0	19.13	19.28	19.23	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.05	22.30	21.99	23
1.4	QPSK	1	3	22.15	22.17	21.91	
1.4	QPSK	1	5	22.03	22.29	21.83	
1.4	QPSK	3	0	21.29	21.25	21.17	



1.4	QPSK	3	1	21.14	21.29	21.19	
1.4	QPSK	3	3	21.29	21.39	21.21	
1.4	QPSK	6	0	21.23	21.26	21.18	22
1.4	16QAM	1	0	21.08	21.11	20.93	
1.4	16QAM	1	3	21.13	21.13	21.00	
1.4	16QAM	1	5	21.27	21.22	21.13	22
1.4	16QAM	3	0	20.02	20.09	20.13	
1.4	16QAM	3	1	20.11	20.31	20.09	
1.4	16QAM	3	3	20.43	20.31	20.24	
1.4	16QAM	6	0	20.21	20.32	20.22	21
1.4	64QAM	1	0	20.22	20.27	20.06	
1.4	64QAM	1	3	20.30	20.33	20.16	
1.4	64QAM	1	5	20.19	20.21	20.10	21
1.4	64QAM	3	0	19.22	19.24	19.08	
1.4	64QAM	3	1	19.34	19.35	19.20	
1.4	64QAM	3	3	19.50	19.55	19.33	
1.4	64QAM	6	0	19.10	19.27	19.22	20



Band 40 (2.3G Band-1) (dBm) Part 27D-1 2305MHz ~ 2315MHz_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0	19.75			20.5
10	QPSK	1	25	19.68			
10	QPSK	1	49	19.59			
10	QPSK	25	0	18.69			
10	QPSK	25	12	18.64			19.5
10	QPSK	25	25	18.61			
10	QPSK	50	0	18.62			
10	16QAM	1	0	18.77			
10	16QAM	1	25	19.01			19.5
10	16QAM	1	49	18.66			
10	16QAM	25	0	17.69			
10	16QAM	25	12	17.71			
10	16QAM	25	25	17.85			18.5
10	16QAM	50	0	17.78			
10	64QAM	1	0	17.63			
10	64QAM	1	25	17.80			
10	64QAM	1	49	17.65			18.5
10	64QAM	25	0	16.64			
10	64QAM	25	12	16.68			
10	64QAM	25	25	16.70			
10	64QAM	50	0	16.55			17.5
Channel				38725	38750	38775	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	18.95	19.03	18.96	
5	QPSK	1	12	18.97	19.02	18.91	
5	QPSK	1	24	18.89	18.91	18.86	
5	QPSK	12	0	17.85	17.92	17.80	
5	QPSK	12	7	17.94	17.94	17.79	19.5
5	QPSK	12	13	17.97	17.97	17.79	
5	QPSK	25	0	17.83	17.98	17.76	
5	16QAM	1	0	18.05	18.03	17.88	
5	16QAM	1	12	18.24	18.29	18.11	19.5
5	16QAM	1	24	17.94	18.00	17.88	
5	16QAM	12	0	16.95	16.99	16.83	
5	16QAM	12	7	16.98	17.04	16.90	
5	16QAM	12	13	17.09	17.07	16.94	18.5
5	16QAM	25	0	16.98	17.00	16.87	
5	64QAM	1	0	16.90	16.99	16.86	
5	64QAM	1	12	17.03	17.09	16.98	
5	64QAM	1	24	16.91	16.87	16.81	18.5
5	64QAM	12	0	15.90	15.98	15.84	
5	64QAM	12	7	15.98	15.96	15.78	
5	64QAM	12	13	15.94	15.99	15.79	
5	64QAM	25	0	15.92	15.95	15.82	17.5

Band 40 (2.3G Band-2) (dBm) Part 27D-2 2350MHz ~ 2360MHz_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	20.09			20.5
10	QPSK	1	25	19.92			
10	QPSK	1	49	19.81			
10	QPSK	25	0	18.97			
10	QPSK	25	12	18.92			19.5
10	QPSK	25	25	18.82			
10	QPSK	50	0	18.88			
10	16QAM	1	0	18.93			
10	16QAM	1	25	19.19			19.5
10	16QAM	1	49	18.90			
10	16QAM	25	0	17.89			
10	16QAM	25	12	17.94			
10	16QAM	25	25	17.97			18.5
10	16QAM	50	0	17.90			
10	64QAM	1	0	17.89			
10	64QAM	1	25	17.99			
10	64QAM	1	49	17.77			18.5
10	64QAM	25	0	17.21			
10	64QAM	25	12	17.13			
10	64QAM	25	25	17.03			
10	64QAM	50	0	16.96			
Channel				39175	39200	39225	
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	19.87	19.99	19.85	20.5
5	QPSK	1	12	19.95	19.96	19.85	
5	QPSK	1	24	19.81	19.83	19.83	
5	QPSK	12	0	18.80	18.89	18.72	
5	QPSK	12	7	18.90	18.89	18.74	19.5
5	QPSK	12	13	18.91	18.90	18.74	
5	QPSK	25	0	18.77	18.92	18.73	
5	16QAM	1	0	18.97	18.92	18.80	
5	16QAM	1	12	19.16	19.22	19.06	19.5
5	16QAM	1	24	18.91	18.97	18.86	
5	16QAM	12	0	17.89	17.88	17.75	
5	16QAM	12	7	17.93	18.01	17.82	
5	16QAM	12	13	18.04	17.98	17.83	18.5
5	16QAM	25	0	17.89	17.92	17.83	
5	64QAM	1	0	17.84	17.90	17.82	
5	64QAM	1	12	17.96	18.01	17.89	
5	64QAM	1	24	17.80	17.77	17.73	18.5
5	64QAM	12	0	16.82	16.95	16.78	
5	64QAM	12	7	16.92	16.93	16.74	
5	64QAM	12	13	16.88	16.96	16.73	
5	64QAM	25	0	16.89	16.89	16.77	17.5



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	18.41	18.46	18.37	19
20	QPSK	1	49	18.23	18.39	18.26	
20	QPSK	1	99	18.15	18.24	18.09	
20	QPSK	50	0	17.47	17.55	17.42	18
20	QPSK	50	24	17.46	17.49	17.30	
20	QPSK	50	50	17.47	17.48	17.35	
20	QPSK	100	0	17.35	17.42	17.30	18
20	16QAM	1	0	17.38	17.46	17.34	
20	16QAM	1	49	17.46	17.50	17.31	
20	16QAM	1	99	17.29	17.30	17.16	17
20	16QAM	50	0	16.41	16.49	16.31	
20	16QAM	50	24	16.50	16.53	16.39	
20	16QAM	50	50	16.42	16.49	16.39	17
20	16QAM	100	0	16.39	16.43	16.23	
20	64QAM	1	0	16.25	16.30	16.19	
20	64QAM	1	49	16.49	16.58	16.43	17
20	64QAM	1	99	16.23	16.28	16.15	
20	64QAM	50	0	15.63	15.63	15.46	
20	64QAM	50	24	15.46	15.52	15.40	16
20	64QAM	50	50	15.50	15.56	15.41	
20	64QAM	100	0	15.45	15.50	15.36	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.25	18.46	18.19	19
15	QPSK	1	37	18.13	18.26	18.12	
15	QPSK	1	74	18.09	18.24	18.07	
15	QPSK	36	0	17.39	17.54	17.32	18
15	QPSK	36	20	17.39	17.45	17.22	
15	QPSK	36	39	17.38	17.38	17.28	
15	QPSK	75	0	17.26	17.35	17.23	18
15	16QAM	1	0	17.30	17.43	17.27	
15	16QAM	1	37	17.40	17.42	17.23	
15	16QAM	1	74	17.23	17.21	17.12	17
15	16QAM	36	0	16.34	16.47	16.29	
15	16QAM	36	20	16.44	16.48	16.35	
15	16QAM	36	39	16.38	16.49	16.33	17
15	16QAM	75	0	16.33	16.41	16.19	
15	64QAM	1	0	16.19	16.25	16.18	
15	64QAM	1	37	16.43	16.52	16.35	17
15	64QAM	1	74	16.21	16.23	16.13	
15	64QAM	36	0	15.57	15.60	15.42	
15	64QAM	36	20	15.41	15.46	15.36	16
15	64QAM	36	39	15.48	15.52	15.40	
15	64QAM	75	0	15.39	15.47	15.32	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.22	18.36	18.11	19
10	QPSK	1	25	18.04	18.19	18.03	
10	QPSK	1	49	18.03	18.19	18.06	
10	QPSK	25	0	17.32	17.45	17.28	18
10	QPSK	25	12	17.39	17.38	17.21	
10	QPSK	25	25	17.30	17.38	17.19	
10	QPSK	50	0	17.16	17.29	17.13	18
10	16QAM	1	0	17.25	17.34	17.27	
10	16QAM	1	25	17.35	17.37	17.17	
10	16QAM	1	49	17.18	17.12	17.11	17
10	16QAM	25	0	16.30	16.39	16.24	
10	16QAM	25	12	16.38	16.47	16.31	
10	16QAM	25	25	16.37	16.48	16.32	17
10	16QAM	50	0	16.27	16.33	16.13	
10	64QAM	1	0	16.18	16.18	16.14	
10	64QAM	1	25	16.35	16.44	16.34	17
10	64QAM	1	49	16.14	16.13	16.08	
10	64QAM	25	0	15.54	15.57	15.33	
10	64QAM	25	12	15.37	15.43	15.33	16
10	64QAM	25	25	15.42	15.46	15.38	
10	64QAM	50	0	15.36	15.39	15.31	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	18.15	18.31	18.06	19
5	QPSK	1	12	17.96	18.10	17.93	
5	QPSK	1	24	17.99	18.19	18.06	
5	QPSK	12	0	17.29	17.40	17.27	18
5	QPSK	12	7	17.38	17.35	17.15	
5	QPSK	12	13	17.26	17.33	17.13	
5	QPSK	25	0	17.10	17.28	17.09	18
5	16QAM	1	0	17.22	17.30	17.26	
5	16QAM	1	12	17.33	17.32	17.13	
5	16QAM	1	24	17.10	17.05	17.07	17
5	16QAM	12	0	16.25	16.30	16.16	
5	16QAM	12	7	16.31	16.38	16.24	
5	16QAM	12	13	16.34	16.44	16.30	17
5	16QAM	25	0	16.25	16.32	16.12	
5	64QAM	1	0	16.16	16.10	16.10	
5	64QAM	1	12	16.30	16.38	16.24	17
5	64QAM	1	24	16.14	16.13	16.00	
5	64QAM	12	0	15.48	15.50	15.24	
5	64QAM	12	7	15.29	15.34	15.28	16
5	64QAM	12	13	15.36	15.44	15.33	
5	64QAM	25	0	15.32	15.35	15.22	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.10	18.29	17.97	19
3	QPSK	1	8	17.95	18.05	17.88	
3	QPSK	1	14	17.93	18.18	18.05	
3	QPSK	8	0	17.19	17.32	17.22	



3	QPSK	8	4	17.30	17.33	17.10	18
3	QPSK	8	7	17.20	17.27	17.11	
3	QPSK	15	0	17.10	17.21	17.01	
3	16QAM	1	0	17.21	17.29	17.22	18
3	16QAM	1	8	17.32	17.30	17.10	
3	16QAM	1	14	17.03	17.02	17.00	
3	16QAM	8	0	16.21	16.23	16.06	17
3	16QAM	8	4	16.22	16.29	16.22	
3	16QAM	8	7	16.33	16.35	16.25	
3	16QAM	15	0	16.17	16.27	16.11	
3	64QAM	1	0	16.09	16.02	16.02	
3	64QAM	1	8	16.21	16.30	16.16	17
3	64QAM	1	14	16.13	16.11	16.00	
3	64QAM	8	0	15.44	15.42	15.19	
3	64QAM	8	4	15.21	15.33	15.25	16
3	64QAM	8	7	15.27	15.43	15.31	
3	64QAM	15	0	15.23	15.28	15.19	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.20	18.41	18.19	19
1.4	QPSK	1	3	18.19	18.21	18.09	
1.4	QPSK	1	5	18.08	18.20	18.04	
1.4	QPSK	3	0	17.45	17.48	17.31	
1.4	QPSK	3	1	17.36	17.46	17.28	
1.4	QPSK	3	3	17.38	17.40	17.32	18
1.4	QPSK	6	0	17.28	17.35	17.24	
1.4	16QAM	1	0	17.36	17.42	17.29	
1.4	16QAM	1	3	17.45	17.46	17.28	18
1.4	16QAM	1	5	17.20	17.27	17.14	
1.4	16QAM	3	0	16.38	16.49	16.26	
1.4	16QAM	3	1	16.48	16.45	16.29	
1.4	16QAM	3	3	16.38	16.49	16.38	
1.4	16QAM	6	0	16.33	16.40	16.18	17
1.4	64QAM	1	0	16.18	16.23	16.13	17
1.4	64QAM	1	3	16.40	16.54	16.40	
1.4	64QAM	1	5	16.15	16.19	16.10	
1.4	64QAM	3	0	15.54	15.56	15.39	
1.4	64QAM	3	1	15.36	15.47	15.39	
1.4	64QAM	3	3	15.48	15.46	15.39	16
1.4	64QAM	6	0	15.36	15.41	15.35	

**2.4GHz WLAN ANT 1**

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	13.38	14.00	13.00	99.55
		CH 6	2437	13.34	14.00	13.00	99.55
		CH 11	2462	11.92	12.50	13.00	99.55
	802.11g 6Mbps	CH 1	2412	11.99	12.50	12.00	96.94
		CH 6	2437	12.01	13.00	12.00	97.08
		CH 11	2462	12.48	13.00	12.00	97.08
	802.11n-HT20 MCS0	CH 1	2412	11.01	12.00	11.00	96.85
		CH 6	2437	10.92	11.50	11.00	96.70
		CH 11	2462	11.41	12.00	11.00	96.85

5.2GHz WLAN ANT 1

5.2GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	11.04	12.00	12.50	97.22
		CH 44	5220	11.24	12.00	12.50	97.22
		CH 48	5240	11.56	12.50	12.50	97.22
	802.11n-HT20 MCS0	CH 36	5180	11.98	12.50	13.50	95.52
		CH 44	5220	12.20	13.00	13.50	97.01
		CH 48	5240	12.20	13.00	13.50	96.97
	802.11n-HT40 MCS0	CH 38	5190	11.78	12.50	13.50	94.12
		CH 46	5230	12.23	13.00	13.50	94.12
		CH 36	5180	10.90	11.50	12.50	97.01
	802.11ac-VHT20 MCS0	CH 44	5220	11.13	12.00	12.50	97.01
		CH 48	5240	12.33	13.00	12.50	97.06
		CH 38	5190	10.95	11.50	12.50	94.29
	802.11ac-VHT40 MCS0	CH 46	5230	11.13	12.00	12.50	94.12
		CH 42	5210	11.08	12.00	12.50	89.47

5.3GHz WLAN ANT 1

5.3GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	9.47	10.00	10.00	97.22
		CH 60	5300	9.53	10.50	10.00	97.22
		CH 64	5320	9.72	10.50	10.00	97.22
	802.11n-HT20 MCS0	CH 52	5260	10.33	11.00	11.00	96.97
		CH 60	5300	10.46	11.00	11.00	95.52
		CH 64	5320	10.43	11.00	11.00	96.97
	802.11n-HT40 MCS0	CH 54	5270	10.37	11.00	11.00	91.18
		CH 62	5310	10.43	11.00	11.00	94.12
		CH 52	5260	9.31	10.00	10.00	97.01
	802.11ac-VHT20 MCS0	CH 60	5300	9.54	10.50	10.00	97.06
		CH 64	5320	9.35	10.00	10.00	97.06
		CH 54	5270	9.40	10.00	10.00	94.29
	802.11ac-VHT40 MCS0	CH 62	5310	9.48	10.00	10.00	94.29
		CH 58	5290	9.41	10.00	10.00	88.89

5.5GHz WLAN ANT 1

5.5GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	8.92	9.50	11.00	97.18
		CH 116	5580	9.06	10.00	11.00	97.18
		CH 144	5720	9.19	10.00	11.00	97.22
	802.11n-HT20 MCS0	CH 100	5500	9.08	10.00	12.00	96.97
		CH 116	5580	9.74	10.50	12.00	96.97
		CH 144	5720	10.04	11.00	12.00	95.52
	802.11n-HT40 MCS0	CH 102	5510	9.47	10.00	12.00	91.18
		CH 110	5550	9.62	10.50	12.00	94.12
		CH 142	5710	9.91	10.50	12.00	94.12
	802.11ac-VHT20 MCS0	CH 100	5500	8.89	9.50	11.00	97.06
		CH 116	5580	8.91	9.50	11.00	97.06
		CH 144	5720	9.05	10.00	11.00	97.06
	802.11ac-VHT40 MCS0	CH 102	5510	8.71	9.50	11.00	91.43
		CH 110	5550	8.75	9.50	11.00	94.29
		CH 142	5710	9.12	10.00	11.00	94.29
	802.11ac-VHT80 MCS0	CH 106	5530	8.61	9.50	11.00	88.89
		CH 122	5610	8.98	9.50	11.00	88.89
		CH 138	5690	9.23	10.00	11.00	84.21

5.8GHz WLAN ANT 1

5.8GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 149	5745	9.41	10.00	10.00	97.18
		CH 157	5785	9.57	10.50	10.00	97.22
		CH 165	5825	9.28	10.00	10.00	97.22
	802.11n-HT20 MCS0	CH 149	5745	10.26	11.00	11.00	96.97
		CH 157	5785	10.46	11.00	11.00	97.01
		CH 165	5825	10.10	11.00	11.00	95.52
	802.11n-HT40 MCS0	CH 151	5755	10.11	11.00	11.00	94.12
		CH 159	5795	10.24	11.00	11.00	91.18
		CH 149	5745	9.38	10.00	10.00	97.06
	802.11ac-VHT20 MCS0	CH 157	5785	9.44	10.00	10.00	97.01
		CH 165	5825	9.15	10.00	10.00	97.06
		CH 151	5755	9.06	10.00	10.00	91.43
	802.11ac-VHT40 MCS0	CH 159	5795	9.38	10.00	10.00	94.29
		CH 155	5775	9.26	10.00	10.00	88.89



Reduced Power Level 2

GSM1900_Ant 1		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		24.82	25.02	24.86	26.00	15.82	16.02	15.86	17.00
GPRS 1 Tx slot		24.78	24.92	24.80	26.00	15.78	15.92	15.80	17.00
GPRS 2 Tx slots		23.65	23.71	23.76	24.50	17.65	17.71	17.76	18.50
GPRS 3 Tx slots		22.06	21.94	21.90	23.00	17.80	17.68	17.64	18.74
GPRS 4 Tx slots		21.14	21.15	21.11	22.00	18.14	18.15	18.11	19.00
EDGE 1 Tx slot		22.18	22.11	22.06	23.00	13.18	13.11	13.06	14.00
EDGE 2 Tx slots		21.41	21.55	21.44	22.50	15.41	15.55	15.44	16.50
EDGE 3 Tx slots		20.06	20.19	20.14	21.00	15.80	15.93	15.88	16.74
EDGE 4 Tx slots		19.18	19.19	19.11	20.00	16.18	16.19	16.11	17.00
Mode			Max.	25.02			Max.	18.15	
Attenuator		Cable Loss : 0.8							
Date		7/14							

Band		WCDMA Band II (dBm)_Ant 1			Tune-up Limit (dBm)	WCDMA_Band IV (dBm)_Ant 1			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	19.33	19.46	19.42	20.00	21.69	21.71	21.61	22.00
3GPP Rel 5	HSDPA Subtest-1	18.50	18.78	18.67	19.50	20.29	20.27	20.75	21.50
3GPP Rel 5	HSDPA Subtest-2	18.45	18.59	18.29	19.50	20.33	20.05	19.93	21.50
3GPP Rel 5	HSDPA Subtest-3	18.25	18.19	18.47	19.00	20.19	20.01	19.96	21.00
3GPP Rel 5	HSDPA Subtest-4	18.13	18.28	18.26	19.00	20.08	20.74	19.95	21.00
3GPP Rel 8	DC-HSDPA Subtest-1	18.85	18.67	18.53	19.50	20.98	20.97	20.89	21.50
3GPP Rel 8	DC-HSDPA Subtest-2	17.75	17.60	17.48	18.50	19.59	19.90	19.81	20.50
3GPP Rel 8	DC-HSDPA Subtest-3	16.25	16.06	15.96	17.00	18.38	18.41	18.31	19.00
3GPP Rel 8	DC-HSDPA Subtest-4	16.21	16.04	15.94	17.00	18.40	18.35	18.31	19.00
3GPP Rel 6	HSUPA Subtest-1	17.66	17.47	17.37	18.00	19.78	19.76	19.59	20.50
3GPP Rel 6	HSUPA Subtest-2	18.17	18.01	17.90	19.00	20.27	20.24	20.12	21.00
3GPP Rel 6	HSUPA Subtest-3	16.69	16.49	16.35	17.00	18.80	18.75	18.57	19.50
3GPP Rel 6	HSUPA Subtest-4	17.55	17.66	17.68	18.50	19.66	19.29	19.27	19.50
3GPP Rel 6	HSUPA Subtest-5	17.79	18.03	18.17	19.00	19.72	19.82	19.91	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.56	17.48	17.49	18.00	19.47	19.44	20.00	21.00
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	19.46			Max.	21.71	
Date		7/14				7/14			

Band		WCDMA Band II (dBm)_Ant 0			Tune-up Limit (dBm)
TX Channel		9262	9400	9538	
Rx Channel		9662	9800	9938	
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	RMC 12.2Kbps	22.33	22.46	22.42	23.00
3GPP Rel 5	HSDPA Subtest-1	21.50	21.78	21.67	22.50
3GPP Rel 5	HSDPA Subtest-2	21.45	21.59	21.29	22.50
3GPP Rel 5	HSDPA Subtest-3	21.25	21.19	21.47	22.00
3GPP Rel 5	HSDPA Subtest-4	21.13	21.28	21.26	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.85	21.67	21.53	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	20.75	20.60	20.48	21.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.25	19.06	18.96	20.00
3GPP Rel 8	DC-HSDPA Subtest-4	19.21	19.04	18.94	20.00
3GPP Rel 6	HSUPA Subtest-1	20.66	20.47	20.37	21.00
3GPP Rel 6	HSUPA Subtest-2	21.17	21.01	20.90	22.00
3GPP Rel 6	HSUPA Subtest-3	19.69	19.49	19.35	20.00
3GPP Rel 6	HSUPA Subtest-4	20.55	20.66	20.68	21.50
3GPP Rel 6	HSUPA Subtest-5	20.79	21.03	21.17	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.56	20.48	20.49	21.00
Attenuator			Cable Loss	0.8	
Mode			Max.	22.46	
Date		7/14			



Band 2 (1900MHz Band) (dBm)_ANT 0 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	22.32	22.42	22.21	23
20	QPSK	1	49	22.07	22.21	22.05	
20	QPSK	1	99	21.99	22.16	22.01	
20	QPSK	50	0	21.30	21.47	21.36	22
20	QPSK	50	24	21.31	21.43	21.28	
20	QPSK	50	50	21.28	21.41	21.25	
20	QPSK	100	0	21.27	21.44	21.27	22
20	16QAM	1	0	21.05	21.18	20.99	
20	16QAM	1	49	21.09	21.28	21.15	
20	16QAM	1	99	20.86	21.01	20.84	21
20	16QAM	50	0	20.29	20.42	20.23	
20	16QAM	50	24	20.26	20.38	20.24	
20	16QAM	50	50	20.42	20.53	20.37	21
20	16QAM	100	0	20.27	20.40	20.23	
20	64QAM	1	0	19.94	20.07	19.91	
20	64QAM	1	49	20.14	20.28	20.16	21
20	64QAM	1	99	19.83	20.02	19.82	
20	64QAM	50	0	19.38	19.52	19.41	
20	64QAM	50	24	19.15	19.33	19.16	20
20	64QAM	50	50	19.29	19.42	19.32	
20	64QAM	100	0	19.26	19.45	19.34	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.22	22.28	22.18	23
15	QPSK	1	37	21.90	22.10	21.91	
15	QPSK	1	74	21.79	21.99	21.88	
15	QPSK	36	0	21.11	21.30	21.23	22
15	QPSK	36	20	21.16	21.25	21.11	
15	QPSK	36	39	21.14	21.22	21.07	
15	QPSK	75	0	21.07	21.32	21.10	22
15	16QAM	1	0	20.89	21.06	20.84	
15	16QAM	1	37	20.91	21.12	20.99	
15	16QAM	1	74	20.75	20.85	20.71	21
15	16QAM	36	0	20.17	20.23	20.13	
15	16QAM	36	20	20.14	20.24	20.12	
15	16QAM	36	39	20.27	20.42	20.25	21
15	16QAM	75	0	20.11	20.24	20.12	
15	64QAM	1	0	19.80	19.88	19.79	
15	64QAM	1	37	20.00	20.13	20.04	21
15	64QAM	1	74	19.69	19.86	19.63	
15	64QAM	36	0	19.25	19.34	19.27	
15	64QAM	36	20	18.98	19.19	18.98	20
15	64QAM	36	39	19.10	19.22	19.21	
15	64QAM	75	0	19.09	19.31	19.16	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.05	22.11	22.07	23
10	QPSK	1	25	21.75	21.90	21.81	
10	QPSK	1	49	21.61	21.80	21.77	
10	QPSK	25	0	20.97	21.20	21.04	22
10	QPSK	25	12	20.98	21.14	21.01	
10	QPSK	25	25	20.94	21.02	20.92	
10	QPSK	50	0	20.88	21.15	20.98	22
10	16QAM	1	0	20.77	20.96	20.65	
10	16QAM	1	25	20.72	20.99	20.88	
10	16QAM	1	49	20.56	20.74	20.56	21
10	16QAM	25	0	20.04	20.06	20.02	
10	16QAM	25	12	19.97	20.05	19.99	
10	16QAM	25	25	20.15	20.22	20.13	21
10	16QAM	50	0	20.00	20.09	20.00	
10	64QAM	1	0	19.61	19.77	19.69	
10	64QAM	1	25	19.83	19.94	19.92	21
10	64QAM	1	49	19.50	19.71	19.50	
10	64QAM	25	0	19.15	19.18	19.15	
10	64QAM	25	12	18.82	19.06	18.84	20
10	64QAM	25	25	18.98	19.10	19.09	
10	64QAM	50	0	18.96	19.19	19.05	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.91	21.97	21.97	23
5	QPSK	1	12	21.62	21.74	21.68	
5	QPSK	1	24	21.50	21.65	21.61	
5	QPSK	12	0	20.82	21.05	20.89	22
5	QPSK	12	7	20.79	20.95	20.89	
5	QPSK	12	13	20.78	20.83	20.74	
5	QPSK	25	0	20.70	20.96	20.85	22
5	16QAM	1	0	20.63	20.80	20.69	
5	16QAM	1	12	20.60	20.82	20.75	
5	16QAM	1	24	20.40	20.57	20.38	21
5	16QAM	12	0	19.89	19.87	19.85	
5	16QAM	12	7	19.84	19.91	19.82	
5	16QAM	12	13	20.02	20.02	19.95	21
5	16QAM	25	0	19.85	19.94	19.84	
5	64QAM	1	0	19.42	19.63	19.54	
5	64QAM	1	12	19.64	19.74	19.74	21
5	64QAM	1	24	19.33	19.61	19.40	
5	64QAM	12	0	18.97	19.01	19.03	
5	64QAM	12	7	18.65	18.91	18.70	20
5	64QAM	12	13	18.80	18.93	18.93	
5	64QAM	25	0	18.79	19.06	18.86	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.76	21.82	21.87	23
3	QPSK	1	8	21.49	21.59	21.48	
3	QPSK	1	14	21.38	21.53	21.44	
3	QPSK	8	0	20.72	20.92	20.72	

Band 2 (1900MHz Band) (dBm) Part 24E_Ant 1							
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	18.32	18.42	18.21	19
20	QPSK	1	49	18.07	18.21	18.05	
20	QPSK	1	99	17.99	18.16	18.01	
20	QPSK	50	0	17.30	17.47	17.36	18
20	QPSK	50	24	17.31	17.43	17.28	
20	QPSK	50	50	17.28	17.41	17.25	
20	QPSK	100	0	17.27	17.44	17.27	18
20	16QAM	1	0	17.05	17.18	16.99	
20	16QAM	1	49	17.09	17.28	17.15	
20	16QAM	1	99	16.86	17.01	16.84	17
20	16QAM	50	0	16.29	16.42	16.23	
20	16QAM	50	24	16.26	16.38	16.24	
20	16QAM	50	50	16.42	16.53	16.37	17
20	16QAM	100	0	16.27	16.40	16.23	
20	64QAM	1	0	15.94	16.07	15.91	
20	64QAM	1	49	16.14	16.28	16.16	17
20	64QAM	1	99	15.83	16.02	15.82	
20	64QAM	50	0	15.38	15.52	15.41	
20	64QAM	50	24	15.15	15.33	15.16	16
20	64QAM	50	50	15.29	15.42	15.32	
20	64QAM	100	0	15.26	15.45	15.34	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.22	18.28	18.18	19
15	QPSK	1	37	17.90	18.10	17.91	
15	QPSK	1	74	17.79	17.99	17.88	
15	QPSK	36	0	17.11	17.30	17.23	18
15	QPSK	36	20	17.16	17.25	17.11	
15	QPSK	36	39	17.14	17.22	17.07	
15	QPSK	75	0	17.07	17.32	17.10	18
15	16QAM	1	0	16.89	17.06	16.84	
15	16QAM	1	37	16.91	17.12	16.99	
15	16QAM	1	74	16.75	16.85	16.71	17
15	16QAM	36	0	16.17	16.23	16.13	
15	16QAM	36	20	16.14	16.24	16.12	
15	16QAM	36	39	16.27	16.42	16.25	17
15	16QAM	75	0	16.11	16.24	16.12	
15	64QAM	1	0	15.80	15.88	15.79	
15	64QAM	1	37	16.00	16.13	16.04	17
15	64QAM	1	74	15.69	15.86	15.63	
15	64QAM	36	0	15.25	15.34	15.27	
15	64QAM	36	20	14.98	15.19	14.98	16
15	64QAM	36	39	15.10	15.22	15.21	
15	64QAM	75	0	15.09	15.31	15.16	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.05	18.11	18.07	19
10	QPSK	1	25	17.75	17.90	17.81	
10	QPSK	1	49	17.61	17.80	17.77	
10	QPSK	25	0	16.97	17.20	17.04	18
10	QPSK	25	12	16.98	17.14	17.01	
10	QPSK	25	25	16.94	17.02	16.92	
10	QPSK	50	0	16.88	17.15	16.98	18
10	16QAM	1	0	16.77	16.96	16.65	
10	16QAM	1	25	16.72	16.99	16.88	
10	16QAM	1	49	16.56	16.74	16.56	17
10	16QAM	25	0	16.04	16.06	16.02	
10	16QAM	25	12	15.97	16.05	15.99	
10	16QAM	25	25	16.15	16.22	16.13	17
10	16QAM	50	0	16.00	16.09	16.00	
10	64QAM	1	0	15.61	15.77	15.69	
10	64QAM	1	25	15.83	15.94	15.92	17
10	64QAM	1	49	15.50	15.71	15.50	
10	64QAM	25	0	15.15	15.18	15.15	
10	64QAM	25	12	14.82	15.06	14.84	16
10	64QAM	25	25	14.98	15.10	15.09	
10	64QAM	50	0	14.96	15.19	15.05	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.91	17.97	17.97	19
5	QPSK	1	12	17.62	17.74	17.68	
5	QPSK	1	24	17.50	17.65	17.61	
5	QPSK	12	0	16.82	17.05	16.89	18
5	QPSK	12	7	16.79	16.95	16.89	
5	QPSK	12	13	16.78	16.83	16.74	
5	QPSK	25	0	16.70	16.96	16.85	18
5	16QAM	1	0	16.63	16.80	16.69	
5	16QAM	1	12	16.60	16.82	16.75	
5	16QAM	1	24	16.40	16.57	16.38	17
5	16QAM	12	0	15.89	15.87	15.85	
5	16QAM	12	7	15.84	15.91	15.82	
5	16QAM	12	13	16.02	16.02	15.95	17
5	16QAM	25	0	15.85	15.94	15.84	
5	64QAM	1	0	15.42	15.63	15.54	
5	64QAM	1	12	15.64	15.74	15.74	17
5	64QAM	1	24	15.33	15.61	15.40	
5	64QAM	12	0	14.97	15.01	15.03	
5	64QAM	12	7	14.65	14.91	14.70	16
5	64QAM	12	13	14.80	14.93	14.93	
5	64QAM	25	0	14.79	15.06	14.86	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.76	17.82	17.87	19
3	QPSK	1	8	17.49	17.59	17.48	
3	QPSK	1	14	17.38	17.53	17.44	
3	QPSK	8	0	16.72	16.92	16.72	



3	QPSK	8	4	20.68	20.79	20.75	22
3	QPSK	8	7	20.67	20.72	20.54	
3	QPSK	15	0	20.52	20.76	20.74	
3	16QAM	1	0	20.46	20.61	20.33	22
3	16QAM	1	8	20.40	20.69	20.55	
3	16QAM	1	14	20.25	20.40	20.22	
3	16QAM	8	0	19.69	19.75	19.74	21
3	16QAM	8	4	19.67	19.74	19.62	
3	16QAM	8	7	19.86	19.89	19.81	
3	16QAM	15	0	19.70	19.81	19.68	21
3	64QAM	1	0	19.30	19.48	19.39	
3	64QAM	1	8	19.49	19.57	19.56	
3	64QAM	1	14	19.19	19.46	19.20	20
3	64QAM	8	0	18.82	18.88	18.89	
3	64QAM	8	4	18.46	18.80	18.55	
3	64QAM	8	7	18.66	18.77	18.74	20
3	64QAM	15	0	18.62	18.88	18.68	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.59	21.63	21.67	
1.4	QPSK	1	3	21.36	21.46	21.35	23
1.4	QPSK	1	5	21.20	21.39	21.27	
1.4	QPSK	3	0	20.59	20.81	20.61	
1.4	QPSK	3	1	20.54	20.66	20.64	22
1.4	QPSK	3	3	20.49	20.57	20.41	
1.4	QPSK	6	0	20.36	20.56	20.54	
1.4	16QAM	1	0	20.36	20.41	20.14	22
1.4	16QAM	1	3	20.24	20.54	20.42	
1.4	16QAM	1	5	20.11	20.21	20.06	
1.4	16QAM	3	0	19.51	19.55	19.60	21
1.4	16QAM	3	1	19.49	19.59	19.48	
1.4	16QAM	3	3	19.71	19.71	19.64	
1.4	16QAM	6	0	19.54	19.69	19.49	21
1.4	64QAM	1	0	19.13	19.32	19.27	
1.4	64QAM	1	3	19.36	19.45	19.44	
1.4	64QAM	1	5	19.05	19.34	19.03	21
1.4	64QAM	3	0	18.65	18.71	18.69	
1.4	64QAM	3	1	18.36	18.61	18.39	
1.4	64QAM	3	3	18.54	18.63	18.58	20
1.4	64QAM	6	0	18.52	18.70	18.51	

3	QPSK	8	4	16.68	16.79	16.75	18
3	QPSK	8	7	16.67	16.72	16.54	
3	QPSK	15	0	16.52	16.76	16.74	
3	16QAM	1	0	16.46	16.61	16.33	18
3	16QAM	1	8	16.40	16.69	16.55	
3	16QAM	1	14	16.25	16.40	16.22	
3	16QAM	8	0	15.69	15.75	15.74	17
3	16QAM	8	4	15.67	15.74	15.62	
3	16QAM	8	7	15.86	15.89	15.81	
3	16QAM	15	0	15.70	15.81	15.68	17
3	64QAM	1	0	15.30	15.48	15.39	
3	64QAM	1	8	15.49	15.57	15.56	
3	64QAM	1	14	15.19	15.46	15.20	16
3	64QAM	8	0	14.82	14.88	14.89	
3	64QAM	8	4	14.46	14.80	14.55	
3	64QAM	8	7	14.66	14.77	14.74	16
3	64QAM	15	0	14.62	14.88	14.68	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.59	17.63	17.67	
1.4	QPSK	1	3	17.36	17.46	17.35	19
1.4	QPSK	1	5	17.20	17.39	17.27	
1.4	QPSK	3	0	16.59	16.81	16.61	
1.4	QPSK	3	1	16.54	16.66	16.64	18
1.4	QPSK	3	3	16.49	16.57	16.41	
1.4	QPSK	6	0	16.36	16.56	16.54	
1.4	16QAM	1	0	16.36	16.41	16.14	22
1.4	16QAM	1	3	16.24	16.54	16.42	
1.4	16QAM	1	5	16.11	16.21	16.06	
1.4	16QAM	3	0	15.51	15.55	15.60	21
1.4	16QAM	3	1	15.49	15.59	15.48	
1.4	16QAM	3	3	15.71	15.71	15.64	
1.4	16QAM	6	0	15.54	15.69	15.49	17
1.4	64QAM	1	0	15.13	15.32	15.27	
1.4	64QAM	1	3	15.36	15.45	15.44	
1.4	64QAM	1	5	15.05	15.34	15.03	21
1.4	64QAM	3	0	14.65	14.71	14.69	
1.4	64QAM	3	1	14.36	14.61	14.39	
1.4	64QAM	3	3	14.54	14.63	14.58	16
1.4	64QAM	6	0	14.52	14.70	14.51	



Band 4 (AWS Band) (dBm) Part 27L (only on channel required)_Ant 0							
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	22.16	22.31	22.16	
20	QPSK	1	49	22.11	22.22	22.03	23
20	QPSK	1	99	22.02	22.16	21.99	
20	QPSK	50	0	21.31	21.44	21.30	
20	QPSK	50	24	21.22	21.39	21.27	22
20	QPSK	50	50	21.13	21.32	21.13	
20	QPSK	100	0	21.31	21.42	21.28	
20	16QAM	1	0	21.21	21.31	21.12	22
20	16QAM	1	49	21.30	21.41	21.28	
20	16QAM	1	99	20.96	21.14	21.00	
20	16QAM	50	0	20.20	20.39	20.27	21
20	16QAM	50	24	20.21	20.37	20.20	
20	16QAM	50	50	20.13	20.28	20.13	
20	16QAM	100	0	20.15	20.33	20.19	21
20	64QAM	1	0	19.98	20.14	20.02	
20	64QAM	1	49	20.06	20.24	20.09	
20	64QAM	1	99	20.15	20.27	20.07	20
20	64QAM	50	0	19.20	19.35	19.22	
20	64QAM	50	24	19.33	19.45	19.35	
20	64QAM	50	50	19.17	19.35	19.21	
20	64QAM	100	0	19.28	19.47	19.34	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.04	22.16	21.98	
15	QPSK	1	37	22.00	22.11	21.87	23
15	QPSK	1	74	21.89	22.04	21.87	
15	QPSK	36	0	21.13	21.27	21.18	22
15	QPSK	36	20	21.03	21.26	21.09	
15	QPSK	36	39	20.93	21.13	20.97	
15	QPSK	75	0	21.15	21.25	21.09	22
15	16QAM	1	0	21.01	21.19	21.00	
15	16QAM	1	37	21.12	21.24	21.14	
15	16QAM	1	74	20.85	21.04	20.87	21
15	16QAM	36	0	20.02	20.21	20.07	
15	16QAM	36	20	20.07	20.26	20.00	
15	16QAM	36	39	19.98	20.11	19.95	21
15	16QAM	75	0	19.95	20.16	20.05	
15	64QAM	1	0	19.85	20.01	19.88	
15	64QAM	1	37	19.94	20.05	19.97	20
15	64QAM	1	74	20.01	20.12	19.92	
15	64QAM	36	0	19.09	19.21	19.11	
15	64QAM	36	20	19.22	19.33	19.21	
15	64QAM	36	39	18.99	19.16	19.09	
15	64QAM	75	0	19.11	19.34	19.20	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	21.90	22.05	21.81	
10	QPSK	1	25	21.89	21.95	21.70	23
10	QPSK	1	49	21.78	21.84	21.69	
10	QPSK	25	0	21.01	21.17	20.99	22
10	QPSK	25	12	20.84	21.06	20.97	
10	QPSK	25	25	20.80	20.95	20.86	
10	QPSK	50	0	20.98	21.12	20.91	22
10	16QAM	1	0	20.86	21.04	20.88	
10	16QAM	1	25	20.99	21.12	20.95	
10	16QAM	1	49	20.70	20.85	20.70	21
10	16QAM	25	0	19.89	20.04	19.93	
10	16QAM	25	12	19.96	20.16	19.89	
10	16QAM	25	25	19.78	20.01	19.78	21
10	16QAM	50	0	19.84	19.98	19.86	
10	64QAM	1	0	19.71	19.84	19.72	
10	64QAM	1	25	19.82	19.86	19.83	20
10	64QAM	1	49	19.90	20.01	19.74	
10	64QAM	25	0	18.97	19.07	18.96	
10	64QAM	25	12	19.07	19.21	19.08	
10	64QAM	25	25	18.88	19.03	18.99	
10	64QAM	50	0	19.00	19.21	19.06	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.78	21.90	21.70	
5	QPSK	1	12	21.75	21.80	21.56	23
5	QPSK	1	24	21.67	21.66	21.50	
5	QPSK	12	0	20.88	21.04	20.83	22
5	QPSK	12	7	20.65	20.91	20.83	
5	QPSK	12	13	20.64	20.77	20.70	
5	QPSK	25	0	20.86	21.00	20.79	22
5	16QAM	1	0	20.71	20.89	20.76	
5	16QAM	1	12	20.87	21.01	20.78	
5	16QAM	1	24	20.54	20.72	20.55	21
5	16QAM	12	0	19.73	19.90	19.81	
5	16QAM	12	7	19.79	19.99	19.73	
5	16QAM	12	13	19.68	19.90	19.59	21
5	16QAM	25	0	19.68	19.86	19.74	
5	64QAM	1	0	19.56	19.65	19.61	
5	64QAM	1	12	19.70	19.70	19.66	20
5	64QAM	1	24	19.75	19.85	19.63	
5	64QAM	12	0	18.86	18.95	18.82	
5	64QAM	12	7	18.92	19.09	18.94	
5	64QAM	12	13	18.76	18.89	18.89	
5	64QAM	25	0	18.82	19.07	18.90	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	21.66	21.71	21.58	
3	QPSK	1	8	21.61	21.68	21.44	23
3	QPSK	1	14	21.52	21.55	21.40	
3	QPSK	8	0	20.70	20.86	20.72	

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.66	20.81	20.66	21.5
20	QPSK	1	49	20.61	20.72	20.53	
20	QPSK	1	99	20.52	20.66	20.49	
20	QPSK	50	0	19.81	19.94	19.80	20.5
20	QPSK	50	24	19.72	19.89	19.77	
20	QPSK	50	50	19.63	19.82	19.63	
20	QPSK	100	0	19.81	19.92	19.78	20.5
20	16QAM	1	0	19.71	19.81	19.62	
20	16QAM	1	49	19.80	19.91	19.78	
20	16QAM	1	99	19.46	19.64	19.50	19.5
20	16QAM	50	0	18.70	18.89	18.77	
20	16QAM	50	24	18.71	18.87	18.70	
20	16QAM	50	50	18.63	18.78	18.63	19.5
20	16QAM	100	0	18.65	18.83	18.69	
20	64QAM	1	0	18.48	18.64	18.52	
20	64QAM	1	49	18.56	18.74	18.59	19.5
20	64QAM	1	99	18.65	18.77	18.57	
20	64QAM	50	0	17.70	17.85	17.72	
20	64QAM	50	24	17.83	17.95	17.85	18.5
20	64QAM	50	50	17.67	17.85	17.71	
20	64QAM	100	0	17.78	17.97	17.84	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.54	20.66	20.48	21.5
15	QPSK	1	37	20.50	20.61	20.37	
15	QPSK	1	74	20.39	20.54	20.37	
15	QPSK	36	0	19.63	19.77	19.68	20.5
15	QPSK	36	20	19.53	19.76	19.59	
15	QPSK	36	39	19.43	19.63	19.47	
15	QPSK	75	0	19.65	19.75	19.59	20.5
15	16QAM	1	0	19.51	19.69	19.50	
15	16QAM	1	37	19.62	19.74	19.64	
15	16QAM	1	74	19.35	19.54	19.37	19.5
15	16QAM	36	0	18.52	18.71	18.57	
15	16QAM	36	20	18.57	18.76	18.50	
15	16QAM	36	39	18.48	18.61	18.45	19.5
15	16QAM	75	0	18.45	18.66	18.55	
15	64QAM	1	0	18.35	18.51	18.38	
15	64QAM	1	37	18.44	18.55	18.47	19.5
15	64QAM	1	74	18.51	18.62	18.42	
15	64QAM	36	0	17.59	17.71	17.61	
15	64QAM	36	20	17.72	17.83	17.71	18.5
15	64QAM	36	39	17.49	17.66	17.59	
15	64QAM	75	0	17.61	17.84	17.70	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.40	20.55	20.31	21.5
10	QPSK	1	25	20.39	20.45	20.20	
10	QPSK	1	49	20.28	20.34	20.19	
10	QPSK	25	0	19.51	19.67	19.49	20.5
10	QPSK	25	12	19.34	19.56	19.47	
10	QPSK	25	25	19.30	19.45	19.36	
10	QPSK	50	0	19.48	19.62	19.41	20.5
10	16QAM	1	0	19.36	19.54	19.38	
10	16QAM	1	25	19.49	19.62	19.45	
10	16QAM	1	49	19.20	19.35	19.20	19.5
10	16QAM	25	0	18.39	18.54	18.43	
10	16QAM	25	12	18.46	18.66	18.39	
10	16QAM	25	25	18.28	18.51	18.28	19.5
10	16QAM	50	0	18.34	18.48	18.36	
10	64QAM	1	0	18.21	18.34	18.22	
10	64QAM	1	25	18.32	18.36	18.33	19.5
10	64QAM	1	49	18.40	18.51	18.24	
10	64QAM	25	0	17.47	17.57	17.46	
10	64QAM	25	12	17.57	17.71	17.58	18.5
10	64QAM	25	25	17.38	17.53	17.49	
10	64QAM	50	0	17.50	17.71	17.56	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.28	20.40	20.20	21.5
5	QPSK	1	12	20.25	20.30	20.06	
5	QPSK	1	24	20.17	20.16	20.00	
5	QPSK	12	0	19.38	19.54	19.33	20.5
5	QPSK	12	7	19.15	19.41	19.33	
5	QPSK	12	13	19.14	19.27	19.20	
5	QPSK	25	0	19.36	19.50	19.29	20.5
5	16QAM	1	0	19.21	19.39	19.26	
5	16QAM	1	12	19.37	19.51	19.28	
5	16QAM	1	24	19.04	19.22	19.05	19.5
5	16QAM	12	0	18.23	18.40	18.31	
5	16QAM	12	7	18.29	18.49	18.23	
5	16QAM	12	13	18.18	18.40	18.09	19.5
5	16QAM	25	0	18.18	18.36	18.24	
5	64QAM	1	0	18.06	18.15	18.11	
5	64QAM	1	12	18.20	18.20	18.16	19.5
5	64QAM	1	24	18.25	18.35	18.13	
5	64QAM	12	0	17.36	17.45	17.32	
5	64QAM	12	7	17.42	17.59	17.44	18.5
5	64QAM	12	13	17.26	17.39	17.39	
5	64QAM	25	0	17.32	17.57	17.40	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.16	20.21	20.08	21.5
3	QPSK	1	8	20.11	20.18	19.94	
3	QPSK	1	14	20.02	20.05	19.90	
3	QPSK	8	0	19.20	19.36	19.22	



3	QPSK	8	4	20.46	20.75	20.69	22
3	QPSK	8	7	20.49	20.58	20.54	
3	QPSK	15	0	20.74	20.88	20.68	
3	16QAM	1	0	20.57	20.72	20.63	22
3	16QAM	1	8	20.71	20.86	20.66	
3	16QAM	1	14	20.35	20.54	20.42	
3	16QAM	8	0	19.53	19.71	19.71	21
3	16QAM	8	4	19.69	19.82	19.54	
3	16QAM	8	7	19.53	19.73	19.40	
3	16QAM	15	0	19.54	19.71	19.57	21
3	64QAM	1	0	19.40	19.51	19.48	
3	64QAM	1	8	19.56	19.60	19.49	
3	64QAM	1	14	19.61	19.68	19.50	20
3	64QAM	8	0	18.73	18.78	18.70	
3	64QAM	8	4	18.79	18.96	18.76	
3	64QAM	8	7	18.58	18.73	18.72	20
3	64QAM	15	0	18.63	18.96	18.76	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.03	22.19	22.03	
1.4	QPSK	1	3	21.98	22.09	21.93	23
1.4	QPSK	1	5	21.87	22.00	21.87	
1.4	QPSK	3	0	21.20	21.33	21.19	
1.4	QPSK	3	1	21.11	21.20	21.13	22
1.4	QPSK	3	3	21.26	21.15	21.33	
1.4	QPSK	6	0	21.19	21.24	21.16	
1.4	16QAM	1	0	21.05	21.16	20.97	22
1.4	16QAM	1	3	21.18	21.29	21.13	
1.4	16QAM	1	5	20.78	20.96	20.86	
1.4	16QAM	3	0	20.01	20.23	20.08	21
1.4	16QAM	3	1	20.22	20.21	20.09	
1.4	16QAM	3	3	20.08	20.11	20.26	
1.4	16QAM	6	0	20.00	20.21	20.00	21
1.4	64QAM	1	0	19.82	20.00	19.89	
1.4	64QAM	1	3	19.93	20.09	19.90	
1.4	64QAM	1	5	20.00	20.10	19.95	21
1.4	64QAM	3	0	19.01	19.24	19.07	
1.4	64QAM	3	1	19.16	19.34	19.15	
1.4	64QAM	3	3	19.01	19.15	19.01	20
1.4	64QAM	6	0	19.13	19.35	19.18	

3	QPSK	8	4	18.96	19.25	19.19	20.5
3	QPSK	8	7	18.99	19.08	19.04	
3	QPSK	15	0	19.24	19.38	19.18	
3	16QAM	1	0	19.07	19.22	19.13	20.5
3	16QAM	1	8	19.21	19.36	19.16	
3	16QAM	1	14	18.85	19.04	18.92	
3	16QAM	8	0	18.03	18.21	18.21	19.5
3	16QAM	8	4	18.19	18.32	18.04	
3	16QAM	8	7	18.03	18.23	17.90	
3	16QAM	15	0	18.04	18.21	18.07	19.5
3	64QAM	1	0	17.90	18.01	17.98	
3	64QAM	1	8	18.06	18.10	17.99	
3	64QAM	1	14	18.11	18.18	18.00	18.5
3	64QAM	8	0	17.23	17.28	17.20	
3	64QAM	8	4	17.29	17.46	17.26	
3	64QAM	8	7	17.08	17.23	17.22	18.5
3	64QAM	15	0	17.13	17.46	17.26	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.53	20.69	20.53	
1.4	QPSK	1	3	20.48	20.59	20.43	21.5
1.4	QPSK	1	5	20.37	20.50	20.37	
1.4	QPSK	3	0	19.70	19.83	19.69	
1.4	QPSK	3	1	19.61	19.70	19.63	20.5
1.4	QPSK	3	3	19.76	19.65	19.83	
1.4	QPSK	6	0	19.69	19.74	19.66	
1.4	16QAM	1	0	19.55	19.66	19.47	20.5
1.4	16QAM	1	3	19.68	19.79	19.63	
1.4	16QAM	1	5	19.28	19.46	19.36	
1.4	16QAM	3	0	18.51	18.73	18.58	19.5
1.4	16QAM	3	1	18.72	18.71	18.59	
1.4	16QAM	3	3	18.58	18.61	18.76	
1.4	16QAM	6	0	18.50	18.71	18.50	19.5
1.4	64QAM	1	0	18.32	18.50	18.39	
1.4	64QAM	1	3	18.43	18.59	18.40	
1.4	64QAM	1	5	18.50	18.60	18.45	19.5
1.4	64QAM	3	0	17.51	17.74	17.57	
1.4	64QAM	3	1	17.66	17.84	17.65	
1.4	64QAM	3	3	17.51	17.65	17.51	18.5
1.4	64QAM	6	0	17.63	17.85	17.68	



Band 7 (2600MHz Band) (dBm) Part 27_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	22.5
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	21.39	21.46	21.54	21.5
20	QPSK	1	49	21.31	21.41	21.48	
20	QPSK	1	99	21.23	21.26	21.07	21.5
20	QPSK	50	0	20.58	20.54	20.66	
20	QPSK	50	24	20.45	20.51	20.43	21.5
20	QPSK	50	50	20.52	20.60	20.40	
20	QPSK	100	0	20.47	20.48	20.38	21.5
20	16QAM	1	0	20.54	20.63	20.47	
20	16QAM	1	49	20.71	20.75	20.60	21.5
20	16QAM	1	99	20.76	20.79	20.65	
20	16QAM	50	0	19.54	19.61	19.51	20.5
20	16QAM	50	24	19.52	19.62	19.45	
20	16QAM	50	50	19.45	19.53	19.36	20.5
20	16QAM	100	0	19.56	19.56	19.39	
20	64QAM	1	0	19.39	19.43	19.29	20.5
20	64QAM	1	49	19.36	19.39	19.23	
20	64QAM	1	99	19.28	19.34	19.20	19.5
20	64QAM	50	0	18.54	18.58	18.45	
20	64QAM	50	24	18.53	18.54	18.41	19.5
20	64QAM	50	50	18.62	18.66	18.56	
20	64QAM	100	0	18.53	18.56	18.41	22.5
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	21.5
15	QPSK	1	0	21.27	21.48	21.39	
15	QPSK	1	37	21.34	21.46	21.27	21.5
15	QPSK	1	74	21.19	21.19	21.05	
15	QPSK	36	0	20.38	20.53	20.34	21.5
15	QPSK	36	20	20.44	20.50	20.34	
15	QPSK	36	39	20.48	20.53	20.30	21.5
15	QPSK	75	0	20.44	20.42	20.32	
15	16QAM	1	0	20.52	20.54	20.44	21.5
15	16QAM	1	37	20.71	20.73	20.56	
15	16QAM	1	74	20.73	20.76	20.59	20.5
15	16QAM	36	0	19.52	19.59	19.51	
15	16QAM	36	20	19.45	19.61	19.39	20.5
15	16QAM	36	39	19.42	19.45	19.27	
15	16QAM	75	0	19.48	19.55	19.33	20.5
15	64QAM	1	0	19.38	19.34	19.25	
15	64QAM	1	37	19.30	19.36	19.16	19.5
15	64QAM	1	74	19.28	19.27	19.16	
15	64QAM	36	0	18.49	18.48	18.44	19.5
15	64QAM	36	20	18.44	18.44	18.36	
15	64QAM	36	39	18.52	18.60	18.53	22.5
15	64QAM	75	0	18.50	18.52	18.41	
Channel				20800	21100	21400	21.5
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	21.18	21.43	21.30	21.5
10	QPSK	1	25	21.24	21.43	21.22	
10	QPSK	1	49	21.13	21.17	20.96	21.5
10	QPSK	25	0	20.32	20.50	20.29	
10	QPSK	25	12	20.43	20.44	20.26	21.5
10	QPSK	25	25	20.39	20.52	20.28	
10	QPSK	50	0	20.43	20.41	20.28	21.5
10	16QAM	1	0	20.52	20.53	20.34	
10	16QAM	1	25	20.62	20.71	20.49	20.5
10	16QAM	1	49	20.63	20.70	20.54	
10	16QAM	25	0	19.51	19.51	19.48	20.5
10	16QAM	25	12	19.43	19.54	19.38	
10	16QAM	25	25	19.32	19.43	19.26	20.5
10	16QAM	50	0	19.41	19.53	19.26	
10	64QAM	1	0	19.38	19.29	19.22	19.5
10	64QAM	1	25	19.20	19.26	19.08	
10	64QAM	1	49	19.22	19.21	19.08	19.5
10	64QAM	25	0	18.47	18.45	18.35	
10	64QAM	25	12	18.35	18.38	18.34	22.5
10	64QAM	25	25	18.47	18.60	18.50	
10	64QAM	50	0	18.40	18.51	18.33	21.5
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	21.5
5	QPSK	1	0	21.17	21.37	21.26	
5	QPSK	1	12	21.23	21.35	21.19	21.5
5	QPSK	1	24	21.09	21.08	20.96	
5	QPSK	12	0	20.29	20.45	20.26	21.5
5	QPSK	12	7	20.40	20.38	20.18	
5	QPSK	12	13	20.31	20.46	20.26	21.5
5	QPSK	25	0	20.34	20.34	20.20	
5	16QAM	1	0	20.44	20.47	20.29	21.5
5	16QAM	1	12	20.60	20.70	20.43	
5	16QAM	1	24	20.53	20.62	20.48	20.5
5	16QAM	12	0	19.48	19.42	19.46	
5	16QAM	12	7	19.33	19.45	19.33	20.5
5	16QAM	12	13	19.28	19.34	19.25	
5	16QAM	25	0	19.34	19.52	19.20	20.5
5	64QAM	1	0	19.33	19.19	19.12	
5	64QAM	1	12	19.11	19.22	19.05	19.5
5	64QAM	1	24	19.12	19.12	19.05	
5	64QAM	12	0	18.41	18.44	18.31	19.5
5	64QAM	12	7	18.26	18.31	18.31	
5	64QAM	12	13	18.42	18.58	18.44	22.5
5	64QAM	25	0	18.31	18.41	18.28	

Band 7 (2600MHz Band) (dBm) Part 27_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.89	17.96	18.04	19
20	QPSK	1	49	17.81	17.91	17.98	
20	QPSK	1	99	17.73	17.76	17.57	
20	QPSK	50	0	17.08	17.04	17.16	
20	QPSK	50	24	16.95	17.01	16.93	18
20	QPSK	50	50	17.02	17.10	16.90	
20	QPSK	100	0	16.97	16.98	16.88	
20	16QAM	1	0	17.04	17.13	16.97	
20	16QAM	1	49	17.21	17.25	17.10	18
20	16QAM	1	99	17.26	17.29	17.15	
20	16QAM	50	0	16.04	16.11	16.01	
20	16QAM	50	24	16.02	16.12	15.95	
20	16QAM	50	50	15.95	16.03	15.86	17
20	16QAM	100	0	16.06	16.06	15.89	
20	64QAM	1	0	15.89	15.93	15.79	
20	64QAM	1	49	15.86	15.89	15.73	
20	64QAM	1	99	15.78	15.84	15.70	17
20	64QAM	50	0	15.04	15.08	14.95	
20	64QAM	50	24	15.03	15.04	14.91	
20	64QAM	50	50	15.12	15.16	15.06	
20	64QAM	100	0	15.03	15.06	14.91	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)
15	QPSK	1	0	17.77	17.98	17.89	19
15	QPSK	1	37	17.84	17.96	17.77	
15	QPSK	1	74	17.69	17.69	17.55	
15	QPSK	36	0	16.88	17.03	16.84	
15	QPSK	36	20	16.94	17.00	16.84	18
15	QPSK	36	39	16.98	17.03	16.80	
15	QPSK	75	0	16.94	16.92	16.82	
15	16QAM	1	0	17.02	17.04	16.94	
15	16QAM	1	37	17.21	17.23	17.06	18
15	16QAM	1	74	17.23	17.26	17.09	
15	16QAM	36	0	16.02	16.09	16.01	
15	16QAM	36	20	15.95	16.11	15.89	
15	16QAM	36	39	15.92	15.95	15.77	17
15	16QAM	75	0	15.98	16.05	15.83	
15	64QAM	1	0	15.88	15.84	15.75	
15	64QAM	1	37	15.80	15.86	15.66	
15	64QAM	1	74	15.78	15.77	15.66	17
15	64QAM	36	0	14.99	14.98	14.94	
15	64QAM	36	20	14.94	14.94	14.86	
15	64QAM	36	39	15.02	15.10	15.03	
15	64QAM	75	0	15.00	15.02	14.91	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)
10	QPSK	1	0	17.68	17.93	17.80	19
10	QPSK	1	25	17.74	17.93	17.72	
10	QPSK	1	49	17.63	17.67	17.46	
10	QPSK	25	0	16.82	17.00	16.79	
10	QPSK	25	12	16.93	16.94	16.76	18
10	QPSK	25	25	16.89	17.02	16.78	
10	QPSK	50	0	16.93	16.91	16.78	
10	16QAM	1	0	17.02	17.03	16.84	
10	16QAM	1	25	17.12	17.21	16.99	18
10	16QAM	1	49	17.13	17.20	17.04	
10	16QAM	25	0	16.01	16.01	15.98	
10	16QAM	25	12	15.93	16.04	15.88	
10	16QAM	25	25	15.82	15.93	15.76	17
10	16QAM	50	0	15.91	16.03	15.76	
10	64QAM	1	0	15.88	15.79	15.72	
10	64QAM	1	25	15.70	15.76	15.58	
10	64QAM	1	49	15.72	15.71	15.58	17
10	64QAM	25	0	14.97	14.95	14.85	
10	64QAM	25	12	14.85	14.88	14.84	
10	64QAM	25	25	14.97	15.10	15.00	
10	64QAM	50	0	14.90	15.01	14.83	16
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)
5	QPSK	1	0	17.67	17.87	17.76	19
5	QPSK	1	12	17.73	17.85	17.69	
5	QPSK	1	24	17.59	17.58	17.46	
5	QPSK	12	0	16.79	16.95	16.76	
5	QPSK	12	7	16.90	16.88	16.68	18
5	QPSK	12	13	16.81	16.96	16.76	
5	QPSK	25	0	16.84	16.84	16.70	
5	16QAM	1	0	16.94	16.97	16.79	
5	16QAM	1	12	17.10	17.20	16.93	18
5	16QAM	1	24	17.03	17.12	16.98	
5	16QAM	12	0	15.98	15.92	15.96	
5	16QAM	12	7	15.83	15.95	15.83	
5	16QAM	12	13	15.78	15.84	15.75	17
5	16QAM	25	0	15.84	16.02	15.70	
5	64QAM	1	0	15.83	15.69	15.62	
5	64QAM	1	12	15.61	15.72	15.55	
5	64QAM	1	24	15.62	15.62	15.55	17
5	64QAM	12	0	14.91	14.94	14.81	
5	64QAM	12	7	14.76	14.81	14.81	
5	64QAM	12	13	14.92	15.08	14.94	
5	64QAM	25	0	14.81	14.91	14.78	16

Band 40 (2.3G Band-1) (dBm) Part 27D-1 2305MHz ~ 2315MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0	20.25			21
10	QPSK	1	25	20.18			
10	QPSK	1	49	20.09			
10	QPSK	25	0	19.19			20
10	QPSK	25	12	19.14			
10	QPSK	25	25	19.11			
10	QPSK	50	0	19.12			20
10	16QAM	1	0	19.27			
10	16QAM	1	25	19.51			
10	16QAM	1	49	19.16			19
10	16QAM	25	0	18.19			
10	16QAM	25	12	18.21			
10	16QAM	25	25	18.35			19
10	16QAM	50	0	18.28			
10	64QAM	1	0	18.13			
10	64QAM	1	25	18.30			19
10	64QAM	1	49	18.15			
10	64QAM	25	0	17.14			
10	64QAM	25	12	17.18			18
10	64QAM	25	25	17.20			
10	64QAM	50	0	17.05			
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	19.45	19.53	19.46	21
5	QPSK	1	12	19.47	19.52	19.41	
5	QPSK	1	24	19.39	19.41	19.36	
5	QPSK	12	0	18.35	18.42	18.30	20
5	QPSK	12	7	18.44	18.44	18.29	
5	QPSK	12	13	18.47	18.47	18.29	
5	QPSK	25	0	18.33	18.48	18.26	20
5	16QAM	1	0	18.55	18.53	18.38	
5	16QAM	1	12	18.74	18.79	18.61	
5	16QAM	1	24	18.44	18.50	18.38	19
5	16QAM	12	0	17.45	17.49	17.33	
5	16QAM	12	7	17.48	17.54	17.40	
5	16QAM	12	13	17.59	17.57	17.44	19
5	16QAM	25	0	17.48	17.50	17.37	
5	64QAM	1	0	17.40	17.49	17.36	
5	64QAM	1	12	17.53	17.59	17.48	19
5	64QAM	1	24	17.41	17.37	17.31	
5	64QAM	12	0	16.40	16.48	16.34	
5	64QAM	12	7	16.48	16.46	16.28	18
5	64QAM	12	13	16.44	16.49	16.29	
5	64QAM	25	0	16.42	16.45	16.32	

Band 40 (2.3G Band-2) (dBm) Part 27D-2 2350MHz ~ 2360MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	20.59			21
10	QPSK	1	25	20.42			
10	QPSK	1	49	20.31			
10	QPSK	25	0	19.47			20
10	QPSK	25	12	19.42			
10	QPSK	25	25	19.32			
10	QPSK	50	0	19.38			20
10	16QAM	1	0	19.43			
10	16QAM	1	25	19.69			
10	16QAM	1	49	19.40			19
10	16QAM	25	0	18.39			
10	16QAM	25	12	18.44			
10	16QAM	25	25	18.47			19
10	16QAM	50	0	18.40			
10	64QAM	1	0	18.39			
10	64QAM	1	25	18.49			19
10	64QAM	1	49	18.27			
10	64QAM	25	0	17.71			
10	64QAM	25	12	17.63			18
10	64QAM	25	25	17.53			
10	64QAM	50	0	17.46			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	20.37	20.49	20.35	21
5	QPSK	1	12	20.45	20.46	20.35	
5	QPSK	1	24	20.31	20.33	20.33	
5	QPSK	12	0	19.30	19.39	19.22	20
5	QPSK	12	7	19.40	19.39	19.24	
5	QPSK	12	13	19.41	19.40	19.24	
5	QPSK	25	0	19.27	19.42	19.23	20
5	16QAM	1	0	19.47	19.42	19.30	
5	16QAM	1	12	19.66	19.72	19.58	
5	16QAM	1	24	19.41	19.47	19.36	19
5	16QAM	12	0	18.39	18.38	18.25	
5	16QAM	12	7	18.43	18.51	18.32	
5	16QAM	12	13	18.54	18.48	18.33	19
5	16QAM	25	0	18.39	18.42	18.33	
5	64QAM	1	0	18.34	18.40	18.32	
5	64QAM	1	12	18.46	18.51	18.39	19
5	64QAM	1	24	18.30	18.27	18.23	
5	64QAM	12	0	17.32	17.45	17.28	
5	64QAM	12	7	17.42	17.43	17.24	18
5	64QAM	12	13	17.38	17.46	17.23	
5	64QAM	25	0	17.39	17.39	17.27	

Band 66 (dBm)_Ant 0							
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	22.41	22.46	22.37	23
20	QPSK	1	49	22.23	22.39	22.26	
20	QPSK	1	99	22.15	22.24	22.09	
20	QPSK	50	0	21.47	21.55	21.42	22
20	QPSK	50	24	21.46	21.49	21.30	
20	QPSK	50	50	21.47	21.48	21.35	
20	QPSK	100	0	21.35	21.42	21.30	22
20	16QAM	1	0	21.38	21.46	21.34	
20	16QAM	1	49	21.46	21.50	21.31	
20	16QAM	1	99	21.29	21.30	21.16	21
20	16QAM	50	0	20.41	20.49	20.31	
20	16QAM	50	24	20.50	20.53	20.39	
20	16QAM	50	50	20.42	20.49	20.39	21
20	16QAM	100	0	20.39	20.43	20.23	
20	64QAM	1	0	20.25	20.30	20.19	
20	64QAM	1	49	20.49	20.58	20.43	20
20	64QAM	1	99	20.23	20.28	20.15	
20	64QAM	50	0	19.63	19.63	19.46	
20	64QAM	50	24	19.46	19.52	19.40	20
20	64QAM	50	50	19.50	19.56	19.41	
20	64QAM	100	0	19.45	19.50	19.36	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.25	22.46	22.19	23
15	QPSK	1	37	22.13	22.26	22.12	
15	QPSK	1	74	22.09	22.24	22.07	
15	QPSK	36	0	21.39	21.54	21.32	22
15	QPSK	36	20	21.39	21.45	21.22	
15	QPSK	36	39	21.38	21.38	21.28	
15	QPSK	75	0	21.26	21.35	21.23	22
15	16QAM	1	0	21.30	21.43	21.27	
15	16QAM	1	37	21.40	21.42	21.23	
15	16QAM	1	74	21.23	21.21	21.12	21
15	16QAM	36	0	20.34	20.47	20.29	
15	16QAM	36	20	20.44	20.48	20.35	
15	16QAM	36	39	20.38	20.49	20.33	21
15	16QAM	75	0	20.33	20.41	20.19	
15	64QAM	1	0	20.19	20.25	20.18	
15	64QAM	1	37	20.43	20.52	20.35	20
15	64QAM	1	74	20.21	20.23	20.13	
15	64QAM	36	0	19.57	19.60	19.42	
15	64QAM	36	20	19.41	19.46	19.36	20
15	64QAM	36	39	19.48	19.52	19.40	
15	64QAM	75	0	19.39	19.47	19.32	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.22	22.36	22.11	23
10	QPSK	1	25	22.04	22.19	22.03	
10	QPSK	1	49	22.03	22.19	22.06	
10	QPSK	25	0	21.32	21.45	21.28	22
10	QPSK	25	12	21.39	21.38	21.21	
10	QPSK	25	25	21.30	21.38	21.19	
10	QPSK	50	0	21.16	21.29	21.13	22
10	16QAM	1	0	21.25	21.34	21.27	
10	16QAM	1	25	21.35	21.37	21.17	
10	16QAM	1	49	21.18	21.12	21.11	21
10	16QAM	25	0	20.30	20.39	20.24	
10	16QAM	25	12	20.38	20.47	20.31	
10	16QAM	25	25	20.37	20.48	20.32	21
10	16QAM	50	0	20.27	20.33	20.13	
10	64QAM	1	0	20.18	20.18	20.14	
10	64QAM	1	25	20.35	20.44	20.34	20
10	64QAM	1	49	20.14	20.13	20.08	
10	64QAM	25	0	19.54	19.57	19.33	
10	64QAM	25	12	19.37	19.43	19.33	20
10	64QAM	25	25	19.42	19.46	19.38	
10	64QAM	50	0	19.36	19.39	19.31	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.15	22.31	22.06	23
5	QPSK	1	12	21.96	22.10	21.93	
5	QPSK	1	24	21.99	22.19	22.06	
5	QPSK	12	0	21.29	21.40	21.27	22
5	QPSK	12	7	21.38	21.35	21.15	
5	QPSK	12	13	21.26	21.33	21.13	
5	QPSK	25	0	21.10	21.28	21.09	22
5	16QAM	1	0	21.22	21.30	21.26	
5	16QAM	1	12	21.33	21.32	21.13	
5	16QAM	1	24	21.10	21.05	21.07	21
5	16QAM	12	0	20.25	20.30	20.16	
5	16QAM	12	7	20.31	20.38	20.24	
5	16QAM	12	13	20.34	20.44	20.30	21
5	16QAM	25	0	20.25	20.32	20.12	
5	64QAM	1	0	20.16	20.10	20.10	
5	64QAM	1	12	20.30	20.38	20.24	20
5	64QAM	1	24	20.14	20.13	20.00	
5	64QAM	12	0	19.48	19.50	19.24	
5	64QAM	12	7	19.29	19.34	19.28	20
5	64QAM	12	13	19.36	19.44	19.33	
5	64QAM	25	0	19.32	19.35	19.22	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.10	22.29	21.97	23
3	QPSK	1	8	21.95	22.05	21.88	
3	QPSK	1	14	21.93	22.18	22.05	
3	QPSK	8	0	21.19	21.32	21.22	

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	20.91	20.96	20.87	21.5
20	QPSK	1	49	20.73	20.89	20.76	
20	QPSK	1	99	20.65	20.74	20.59	
20	QPSK	50	0	19.97	20.05	19.92	20.5
20	QPSK	50	24	19.96	19.99	19.80	
20	QPSK	50	50	19.97	19.98	19.85	
20	QPSK	100	0	19.85	19.92	19.80	20.5
20	16QAM	1	0	19.88	19.96	19.84	
20	16QAM	1	49	19.96	20.00	19.81	
20	16QAM	1	99	19.79	19.80	19.66	19.5
20	16QAM	50	0	18.91	18.99	18.81	
20	16QAM	50	24	19.00	19.03	18.89	
20	16QAM	50	50	18.92	18.99	18.89	19.5
20	16QAM	100	0	18.89	18.93	18.73	
20	64QAM	1	0	18.75	18.80	18.69	
20	64QAM	1	49	18.99	19.08	18.93	19.5
20	64QAM	1	99	18.73	18.78	18.65	
20	64QAM	50	0	18.13	18.13	17.96	
20	64QAM	50	24	17.96	18.02	17.90	18.5
20	64QAM	50	50	18.00	18.06	17.91	
20	64QAM	100	0	17.95	18.00	17.86	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.75	20.96	20.69	21.5
15	QPSK	1	37	20.63	20.76	20.62	
15	QPSK	1	74	20.59	20.74	20.57	
15	QPSK	36	0	19.89	20.04	19.82	20.5
15	QPSK	36	20	19.89	19.95	19.72	
15	QPSK	36	39	19.88	19.88	19.78	
15	QPSK	75	0	19.76	19.85	19.73	20.5
15	16QAM	1	0	19.80	19.93	19.77	
15	16QAM	1	37	19.90	19.92	19.73	
15	16QAM	1	74	19.73	19.71	19.62	19.5
15	16QAM	36	0	18.84	18.97	18.79	
15	16QAM	36	20	18.94	18.98	18.85	
15	16QAM	36	39	18.88	18.99	18.83	19.5
15	16QAM	75	0	18.83	18.91	18.69	
15	64QAM	1	0	18.69	18.75	18.68	
15	64QAM	1	37	18.93	19.02	18.85	19.5
15	64QAM	1	74	18.71	18.73	18.63	
15	64QAM	36	0	18.07	18.10	17.92	
15	64QAM	36	20	17.91	17.96	17.86	18.5
15	64QAM	36	39	17.98	18.02	17.90	
15	64QAM	75	0	17.89	17.97	17.82	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.72	20.86	20.61	21.5
10	QPSK	1	25	20.54	20.69	20.53	
10	QPSK	1	49	20.53	20.69	20.56	
10	QPSK	25	0	19.82	19.95	19.78	20.5
10	QPSK	25	12	19.89	19.88	19.71	
10	QPSK	25	25	19.80	19.88	19.69	
10	QPSK	50	0	19.66	19.79	19.63	20.5
10	16QAM	1	0	19.75	19.84	19.77	
10	16QAM	1	25	19.85	19.87	19.67	20.5
10	16QAM	1	49	19.68	19.62	19.61	
10	16QAM	25	0	18.80	18.89	18.74	
10	16QAM	25	12	18.88	18.97	18.81	19.5
10	16QAM	25	25	18.87	18.98	18.82	
10	16QAM	50	0	18.77	18.83	18.63	
10	64QAM	1	0	18.68	18.68	18.64	19.5
10	64QAM	1	25	18.85	18.94	18.84	
10	64QAM	1	49	18.64	18.63	18.58	
10	64QAM	25	0	18.04	18.07	17.83	18.5
10	64QAM	25	12	17.87	17.93	17.83	
10	64QAM	25	25	17.92	17.96	17.88	
10	64QAM	50	0	17.86	17.89	17.81	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.65	20.81	20.56	21.5
5	QPSK	1	12	20.46	20.60	20.43	
5	QPSK	1	24	20.49	20.69	20.56	
5	QPSK	12	0	19.79	19.90	19.77	20.5
5	QPSK	12	7	19.88	19.85	19.65	
5	QPSK	12	13	19.76	19.83	19.63	
5	QPSK	25	0	19.60	19.78	19.59	20.5
5	16QAM	1	0	19.72	19.80	19.76	
5	16QAM	1	12	19.83	19.82	19.63	
5	16QAM	1	24	19.60	19.55	19.57	19.5
5	16QAM	12	0	18.75	18.80	18.66	
5	16QAM	12	7	18.81	18.88	18.74	
5	16QAM	12	13	18.84	18.94	18.80	19.5
5	16QAM	25	0	18.75	18.82	18.62	
5	64QAM	1	0	18.66	18.60	18.60	
5	64QAM	1	12	18.80	18.88	18.74	18.5
5	64QAM	1	24	18.64	18.63	18.50	
5	64QAM	12	0	17.98	18.00	17.74	
5	64QAM	12	7	17.79	17.84	17.78	18.5
5	64QAM	12	13	17.86	17.94	17.83	
5	64QAM	25	0	17.82	17.85	17.72	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.60	20.79	20.47	21.5
3	QPSK	1	8	20.45	20.55	20.38	
3	QPSK	1	14	20.43	20.68	20.55	
3	QPSK	8	0	19.69	19.82	19.72	



3	QPSK	8	4	21.30	21.33	21.10	22
3	QPSK	8	7	21.20	21.27	21.11	
3	QPSK	15	0	21.10	21.21	21.01	
3	16QAM	1	0	21.21	21.29	21.22	22
3	16QAM	1	8	21.32	21.30	21.10	
3	16QAM	1	14	21.03	21.02	21.00	
3	16QAM	8	0	20.21	20.23	20.06	21
3	16QAM	8	4	20.22	20.29	20.22	
3	16QAM	8	7	20.33	20.35	20.25	
3	16QAM	15	0	20.17	20.27	20.11	21
3	64QAM	1	0	20.09	20.02	20.02	
3	64QAM	1	8	20.21	20.30	20.16	
3	64QAM	1	14	20.13	20.11	20.00	20
3	64QAM	8	0	19.44	19.42	19.19	
3	64QAM	8	4	19.21	19.33	19.25	
3	64QAM	8	7	19.27	19.43	19.31	20
3	64QAM	15	0	19.23	19.28	19.19	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.20	22.41	22.19	
1.4	QPSK	1	3	22.19	22.21	22.09	23.5
1.4	QPSK	1	5	22.08	22.20	22.04	
1.4	QPSK	3	0	21.45	21.48	21.31	
1.4	QPSK	3	1	21.36	21.46	21.28	22.5
1.4	QPSK	3	3	21.38	21.40	21.32	
1.4	QPSK	6	0	21.28	21.35	21.24	
1.4	16QAM	1	0	21.36	21.42	21.29	22.5
1.4	16QAM	1	3	21.45	21.46	21.28	
1.4	16QAM	1	5	21.20	21.27	21.14	
1.4	16QAM	3	0	20.38	20.49	20.26	21.5
1.4	16QAM	3	1	20.48	20.45	20.29	
1.4	16QAM	3	3	20.38	20.49	20.38	
1.4	16QAM	6	0	20.33	20.40	20.18	21.5
1.4	64QAM	1	0	20.18	20.23	20.13	
1.4	64QAM	1	3	20.40	20.54	20.40	
1.4	64QAM	1	5	20.15	20.19	20.10	20.5
1.4	64QAM	3	0	19.54	19.56	19.39	
1.4	64QAM	3	1	19.36	19.47	19.39	
1.4	64QAM	3	3	19.48	19.46	19.39	20.5
1.4	64QAM	6	0	19.36	19.41	19.35	

3	QPSK	8	4	19.80	19.83	19.60	20.5
3	QPSK	8	7	19.70	19.77	19.61	
3	QPSK	15	0	19.60	19.71	19.51	
3	16QAM	1	0	19.71	19.79	19.72	20.5
3	16QAM	1	8	19.82	19.80	19.60	
3	16QAM	1	14	19.53	19.52	19.50	
3	16QAM	8	0	18.71	18.73	18.56	19.5
3	16QAM	8	4	18.72	18.79	18.72	
3	16QAM	8	7	18.83	18.85	18.75	
3	16QAM	15	0	18.67	18.77	18.61	19.5
3	64QAM	1	0	18.59	18.52	18.52	
3	64QAM	1	8	18.71	18.80	18.66	
3	64QAM	1	14	18.63	18.61	18.50	18.5
3	64QAM	8	0	17.94	17.92	17.69	
3	64QAM	8	4	17.71	17.83	17.75	
3	64QAM	8	7	17.77	17.93	17.81	18.5
3	64QAM	15	0	17.73	17.78	17.69	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.70	20.91	20.69	
1.4	QPSK	1	3	20.69	20.71	20.59	21.5
1.4	QPSK	1	5	20.58	20.70	20.54	
1.4	QPSK	3	0	19.95	19.98	19.81	
1.4	QPSK	3	1	19.86	19.96	19.78	20.5
1.4	QPSK	3	3	19.88	19.90	19.82	
1.4	QPSK	6	0	19.78	19.85	19.74	
1.4	16QAM	1	0	19.86	19.92	19.79	20.5
1.4	16QAM	1	3	19.95	19.96	19.78	
1.4	16QAM	1	5	19.70	19.77	19.64	
1.4	16QAM	3	0	18.88	18.99	18.76	19.5
1.4	16QAM	3	1	18.98	18.95	18.79	
1.4	16QAM	3	3	18.88	18.99	18.88	
1.4	16QAM	6	0	18.83	18.90	18.68	19.5
1.4	64QAM	1	0	18.68	18.73	18.63	
1.4	64QAM	1	3	18.90	19.04	18.90	
1.4	64QAM	1	5	18.65	18.69	18.60	18.5
1.4	64QAM	3	0	18.04	18.06	17.89	
1.4	64QAM	3	1	17.86	17.97	17.89	
1.4	64QAM	3	3	17.98	17.96	17.89	18.5
1.4	64QAM	6	0	17.86	17.91	17.85	

**5.2GHz WLAN ANT 1**

5.2GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	14.04	15.00	15.50	97.22
		CH 44	5220	14.24	15.00	15.50	97.22
		CH 48	5240	14.56	15.50	15.50	97.22
	802.11n-HT20 MCS0	CH 36	5180	14.98	15.50	16.50	95.52
		CH 44	5220	15.20	16.00	16.50	97.01
		CH 48	5240	15.20	16.00	16.50	96.97
	802.11n-HT40 MCS0	CH 38	5190	14.78	15.50	16.50	94.12
		CH 46	5230	15.23	16.00	16.50	94.12
	802.11ac-VHT20 MCS0	CH 36	5180	13.90	14.50	15.50	97.01
		CH 44	5220	14.13	15.00	15.50	97.01
		CH 48	5240	15.33	16.00	15.50	97.06
	802.11ac-VHT40 MCS0	CH 38	5190	13.95	14.50	15.50	94.29
		CH 46	5230	14.13	15.00	15.50	94.12
	802.11ac-VHT80 MCS0	CH 42	5210	14.08	15.00	15.50	89.47

5.3GHz WLAN ANT 1

5.3GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	14.47	15.00	15.00	97.22
		CH 60	5300	14.53	15.50	15.00	97.22
		CH 64	5320	14.72	15.50	15.00	97.22
	802.11n-HT20 MCS0	CH 52	5260	15.33	16.00	16.00	96.97
		CH 60	5300	15.46	16.00	16.00	95.52
		CH 64	5320	15.43	16.00	16.00	96.97
	802.11n-HT40 MCS0	CH 54	5270	15.37	16.00	16.00	91.18
		CH 62	5310	15.43	16.00	16.00	94.12
	802.11ac-VHT20 MCS0	CH 52	5260	14.31	15.00	15.00	97.01
		CH 60	5300	14.54	15.50	15.00	97.06
		CH 64	5320	14.35	15.00	15.00	97.06
	802.11ac-VHT40 MCS0	CH 54	5270	14.40	15.00	15.00	94.29
		CH 62	5310	14.48	15.00	15.00	94.29
	802.11ac-VHT80 MCS0	CH 58	5290	14.41	15.00	15.00	88.89

5.5GHz WLAN ANT 1

5.5GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	12.92	13.50	15.00	97.18
		CH 116	5580	13.06	14.00	15.00	97.18
		CH 144	5720	13.19	14.00	15.00	97.22
	802.11n-HT20 MCS0	CH 100	5500	13.08	14.00	16.00	96.97
		CH 116	5580	13.74	14.50	16.00	96.97
		CH 144	5720	14.04	15.00	16.00	95.52
	802.11n-HT40 MCS0	CH 102	5510	13.47	14.00	16.00	91.18
		CH 110	5550	13.62	14.50	16.00	94.12
		CH 142	5710	13.91	14.50	16.00	94.12
	802.11ac-VHT20 MCS0	CH 100	5500	12.69	13.50	15.00	97.06
		CH 116	5580	12.91	13.50	15.00	97.06
		CH 144	5720	13.05	14.00	15.00	97.06
	802.11ac-VHT40 MCS0	CH 102	5510	12.71	13.50	15.00	91.43
		CH 110	5550	12.75	13.50	15.00	94.29
		CH 142	5710	13.12	14.00	15.00	94.29
	802.11ac-VHT80 MCS0	CH 106	5530	12.61	13.50	15.00	88.89
		CH 122	5610	12.98	13.50	15.00	88.89
		CH 138	5690	13.23	14.00	15.00	84.21

5.8GHz WLAN ANT 1

5.8GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 149	5745	10.91	11.50	11.50	97.18
		CH 157	5785	11.07	12.00	11.50	97.22
		CH 165	5825	10.78	11.50	11.50	97.22
	802.11n-HT20 MCS0	CH 149	5745	11.76	12.50	12.50	96.97
		CH 157	5785	11.96	12.50	12.50	97.01
		CH 165	5825	11.60	12.50	12.50	95.52
	802.11n-HT40 MCS0	CH 151	5755	11.61	12.50	12.50	94.12
		CH 159	5795	11.74	12.50	12.50	91.18
		CH 149	5745	10.88	11.50	11.50	97.06
	802.11ac-VHT20 MCS0	CH 157	5785	10.94	11.50	11.50	97.01
		CH 165	5825	10.65	11.50	11.50	97.06
		CH 151	5755	10.56	11.50	11.50	91.43
	802.11ac-VHT40 MCS0	CH 159	5795	10.88	11.50	11.50	94.29
		CH 155	5775	10.76	11.50	11.50	88.89