



REPORT No.: SZ22070305S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.

Conducted Power

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		128	169	251		128	169	251		
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot		28.01	28.19	28.07	29.00	19.01	19.19	19.07	20.00	0.31
GPRS 1 Tx slot		27.88	28.05	27.90	29.00	18.88	19.05	18.90	20.00	
GPRS 2 Tx slots		26.39	26.34	26.25	27.00	20.39	20.34	20.25	21.00	0.14
GPRS 3 Tx slots		24.52	24.70	24.57	25.00	20.26	20.44	20.31	20.74	0.18
GPRS 4 Tx slots		22.38	22.52	22.39	23.00	19.38	19.52	19.39	20.00	0.14
EDGE 1 Tx slot		22.31	22.45	22.41	23.00	13.31	13.45	13.41	14.00	0.14
EDGE 2 Tx slots		20.26	20.38	20.34	21.00	14.26	14.38	14.34	15.00	0.12
EDGE 3 Tx slots		18.58	18.61	18.48	19.50	14.32	14.35	14.22	15.24	0.13
EDGE 4 Tx slots		15.86	16.12	15.92	17.00	12.86	13.12	12.92	14.00	0.26
Mode			Max.	28.19			Max.	20.44		
Attenuator		Cable Loss : 0.6								

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		512	661	810		512	661	810		
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot		23.70	23.85	23.76	24.00	14.70	14.85	14.76	15.00	0.30
GPRS 1 Tx slot		23.55	23.74	23.67	24.00	14.55	14.74	14.67	15.00	
GPRS 2 Tx slots		21.45	21.76	21.57	22.00	15.45	15.76	15.57	16.00	0.31
GPRS 3 Tx slots		19.90	19.86	19.89	20.00	15.64	15.60	15.63	15.74	0.04
GPRS 4 Tx slots		17.96	18.08	18.03	18.50	14.96	15.08	15.03	15.50	0.12
EDGE 1 Tx slot		20.12	20.14	19.87	21.00	11.12	11.14	10.87	12.00	0.27
EDGE 2 Tx slots		18.53	18.97	18.83	19.00	12.53	12.97	12.83	13.00	0.44
EDGE 3 Tx slots		16.45	16.54	16.50	17.00	12.19	12.28	12.24	12.74	0.09
EDGE 4 Tx slots		15.07	15.05	15.18	16.00	12.07	12.05	12.18	13.00	0.13
Mode			Max.	23.85			Max.	15.76		
Attenuator		Cable Loss : 0.8								

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	13.38	13.26	13.31	14.00	14.48	13.85	14.12	15.00	16.86	16.56	16.65	17.50
3GPP Rel 6	HSDPA Subtest-1	13.00	12.86	12.37	14.00	13.97	13.69	13.74	14.50	16.17	16.06	15.99	17.00
3GPP Rel 6	HSDPA Subtest-2	13.01	12.78	12.39	14.00	13.75	13.87	13.83	14.50	15.59	15.49	15.69	17.00
3GPP Rel 6	HSDPA Subtest-3	11.99	11.94	12.09	13.50	12.95	12.95	11.83	14.00	15.44	15.26	15.39	16.50
3GPP Rel 6	HSDPA Subtest-4	11.36	11.41	10.33	13.50	13.86	14.15	13.73	14.00	15.38	15.65	15.50	16.50
3GPP Rel 8	DC-HSDPA Subtest-1	12.97	13.15	12.75	14.00	13.60	13.76	13.24	14.50	16.04	15.81	16.12	17.00
3GPP Rel 8	DC-HSDPA Subtest-2	12.50	12.83	12.25	14.00	12.89	13.06	12.18	14.50	15.00	15.25	15.12	17.00
3GPP Rel 8	DC-HSDPA Subtest-3	11.30	11.38	10.63	13.50	12.87	13.05	11.87	14.00	15.44	15.47	15.19	16.50
3GPP Rel 8	DC-HSDPA Subtest-4	11.90	12.06	10.81	13.50	13.09	13.16	12.80	14.00	15.49	15.87	15.80	16.50
3GPP Rel 6	HSUPA Subtest-1	13.10	13.03	12.53	14.00	11.76	11.99	11.94	14.50	15.79	15.83	16.25	17.00
3GPP Rel 6	HSUPA Subtest-2	11.09	11.08	11.13	12.00	12.77	13.24	12.62	12.50	14.30	14.30	14.44	15.00
3GPP Rel 6	HSUPA Subtest-3	12.03	11.98	11.47	13.00	12.02	11.70	11.89	13.50	15.06	14.64	15.13	16.00
3GPP Rel 6	HSUPA Subtest-4	11.29	11.16	11.13	12.00	11.95	11.89	11.39	12.50	14.37	14.32	13.94	15.00
3GPP Rel 6	HSUPA Subtest-5	12.93	12.67	12.36	14.00	13.56	13.81	13.09	14.50	15.66	16.14	15.74	17.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	11.13	11.18	10.42	11.50	11.64	11.45	10.84	12.00	13.95	14.21	13.64	14.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	13.38			Max.	14.48			Max.	16.86	

Band 2 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	14.82	15.23	15.08	16
20	QPSK	1	49	14.74	15.14	15.04	
20	QPSK	1	99	14.75	15.02	14.91	
20	QPSK	50	0	14.23	14.37	14.29	15
20	QPSK	50	24	14.13	14.34	14.27	
20	QPSK	50	50	14.02	14.36	14.24	
20	QPSK	100	0	14.10	14.24	14.16	15
20	16QAM	1	0	13.87	14.20	14.06	
20	16QAM	1	49	13.92	14.18	14.14	
20	16QAM	1	99	13.85	14.06	14.01	14
20	16QAM	50	0	13.57	13.86	13.72	
20	16QAM	50	24	13.47	13.98	13.90	
20	16QAM	50	50	13.35	13.92	13.79	14
20	16QAM	100	0	13.43	13.56	13.84	
20	64QAM	1	0	13.30	13.77	13.50	
20	64QAM	1	49	13.41	13.64	13.57	14
20	64QAM	1	99	13.38	13.59	13.60	
20	64QAM	50	0	13.22	13.37	13.29	
20	64QAM	50	24	13.31	13.32	13.25	14
20	64QAM	50	50	13.20	13.33	13.20	
20	64QAM	100	0	13.15	13.16	13.10	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	14.73	15.14	15.01	16
15	QPSK	1	37	14.72	14.66	14.59	
15	QPSK	1	74	14.63	14.69	14.57	
15	QPSK	36	0	13.83	14.28	14.06	15
15	QPSK	36	20	13.44	14.13	13.71	
15	QPSK	36	39	13.88	13.86	13.75	
15	QPSK	75	0	13.58	13.31	13.47	15
15	16QAM	1	0	13.78	14.09	13.60	
15	16QAM	1	37	13.75	13.89	13.82	
15	16QAM	1	74	13.72	13.44	13.87	14
15	16QAM	36	0	13.15	13.39	13.38	
15	16QAM	36	20	13.17	13.14	13.06	
15	16QAM	36	39	13.09	13.33	13.40	14
15	16QAM	75	0	13.02	13.37	13.21	
15	64QAM	1	0	13.46	13.46	13.09	
15	64QAM	1	37	13.22	13.08	13.11	14
15	64QAM	1	74	12.98	13.06	13.06	
15	64QAM	36	0	12.79	13.28	13.04	
15	64QAM	36	20	12.75	13.03	12.74	14
15	64QAM	36	39	12.71	13.07	12.88	
15	64QAM	75	0	13.11	13.25	13.19	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	14.94	15.08	15.05	16
10	QPSK	1	25	14.77	14.94	15.07	
10	QPSK	1	49	14.86	14.70	14.93	
10	QPSK	25	0	14.03	14.11	14.05	15
10	QPSK	25	12	13.94	14.11	13.85	
10	QPSK	25	25	13.61	13.84	13.77	
10	QPSK	50	0	13.47	13.27	13.23	15
10	16QAM	1	0	14.01	14.06	13.96	
10	16QAM	1	25	13.56	13.96	13.70	
10	16QAM	1	49	14.01	13.91	13.86	14
10	16QAM	25	0	13.21	13.45	13.07	
10	16QAM	25	12	13.05	13.18	13.26	
10	16QAM	25	25	13.26	13.04	13.18	14
10	16QAM	50	0	12.82	13.25	12.94	
10	64QAM	1	0	12.88	12.85	12.97	
10	64QAM	1	25	13.18	13.17	13.34	14
10	64QAM	1	49	13.07	13.02	13.16	
10	64QAM	25	0	13.05	13.17	13.06	
10	64QAM	25	12	13.05	13.07	13.08	14
10	64QAM	25	25	13.23	13.20	13.07	
10	64QAM	50	0	13.03	13.01	13.02	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	14.77	15.08	15.03	16
5	QPSK	1	12	14.87	15.02	15.05	
5	QPSK	1	24	14.66	14.66	14.66	
5	QPSK	12	0	13.77	14.26	13.88	15
5	QPSK	12	7	13.91	14.16	13.88	
5	QPSK	12	13	13.90	13.91	13.97	
5	QPSK	25	0	13.89	13.69	13.73	15
5	16QAM	1	0	14.10	14.12	14.17	
5	16QAM	1	12	13.79	13.81	13.96	
5	16QAM	1	24	13.81	13.69	14.09	14
5	16QAM	12	0	13.10	13.24	12.79	
5	16QAM	12	7	12.81	13.07	13.05	
5	16QAM	12	13	13.15	12.87	12.98	14
5	16QAM	25	0	13.12	13.34	13.06	
5	64QAM	1	0	12.89	12.91	13.12	
5	64QAM	1	12	13.11	13.15	13.21	14
5	64QAM	1	24	13.11	12.98	13.35	
5	64QAM	12	0	13.14	13.30	13.35	
5	64QAM	12	7	13.11	12.96	13.04	14
5	64QAM	12	13	13.42	13.37	13.28	
5	64QAM	25	0	13.22	13.20	13.09	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	14.94	15.19	15.02	16
3	QPSK	1	8	14.97	15.13	14.87	
3	QPSK	1	14	14.99	14.94	15.15	
3	QPSK	8	0	13.88	14.22	14.18	15
3	QPSK	8	4	13.89	13.93	14.10	
3	QPSK	8	7	13.82	14.05	13.92	

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	14.78	14.89	13.40	15.5
20	QPSK	1	49	14.71	14.80	13.44	
20	QPSK	1	99	14.63	14.66	13.46	
20	QPSK	50	0	13.96	13.87	13.36	14.5
20	QPSK	50	24	13.84	13.93	13.35	
20	QPSK	50	50	13.51	13.78	13.46	
20	QPSK	100	0	13.56	13.53	13.43	14.5
20	16QAM	1	0	13.91	13.94	12.69	
20	16QAM	1	49	13.73	13.77	12.53	
20	16QAM	1	99	13.98	13.70	13.72	13.5
20	16QAM	50	0	12.87	12.96	12.88	
20	16QAM	50	24	12.77	12.85	12.74	
20	16QAM	50	50	12.95	12.77	12.90	13.5
20	16QAM	100	0	12.59	12.69	12.74	
20	64QAM	1	0	12.87	12.94	12.83	
20	64QAM	1	49	12.98	12.86	12.96	13.5
20	64QAM	1	99	12.70	12.86	12.61	
20	64QAM	50	0	12.83	12.78	12.79	13.5
20	64QAM	50	24	12.74	12.88	12.83	
20	64QAM	50	50	12.96	12.77	12.88	
20	64QAM	100	0	12.80	12.64	12.82	Tune-up limit (dBm)
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	14.76	14.71	13.50	15.5
15	QPSK	1	37	14.70	14.86	13.26	
15	QPSK	1	74	14.63	14.67	13.59	
15	QPSK	36	0	13.84	13.85	13.24	14.5
15	QPSK	36	20	13.65	13.94	13.37	
15	QPSK	36	39	13.55	13.75	13.39	
15	QPSK	75	0	13.59	13.58	13.32	14.5
15	16QAM	1	0	13.93	13.89	12.83	
15	16QAM	1	37	13.88	13.83	12.46	
15	16QAM	1	74	13.92	13.69	13.82	13.5
15	16QAM	36	0	12.83	12.82	12.99	
15	16QAM	36	20	12.66	12.66	12.59	
15	16QAM	36	39	12.91	12.70	12.73	13.5
15	16QAM	75	0	12.40	12.82	12.58	
15	64QAM	1	0	12.95	12.89	12.72	
15	64QAM	1	37	12.97	12.90	12.82	13.5
15	64QAM	1	74	12.83	12.82	12.78	
15	64QAM	36	0	12.85	12.97	12.97	
15	64QAM	36	20	12.73	12.73	12.66	13.5
15	64QAM	36	39	12.86	12.93	12.82	
15	64QAM	75	0	12.67	12.80	12.95	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	14.82	14.82	13.20	15.5
10	QPSK	1	25	14.59	14.79	13.25	
10	QPSK	1	49	14.58	14.67	13.32	
10	QPSK	25	0	13.99	13.69	13.44	14.5
10	QPSK	25	12	13.87	13.86	13.23	
10	QPSK	25	25	13.41	13.84	13.26	
10	QPSK	50	0	13.44	13.47	13.33	14.5

3	QPSK	15	0	13.47	13.56	13.41	15
3	16QAM	1	0	14.21	14.24	14.16	
3	16QAM	1	8	13.96	14.18	13.92	
3	16QAM	1	14	13.84	14.15	13.89	14
3	16QAM	8	0	13.31	13.32	13.33	
3	16QAM	8	4	13.20	13.09	12.96	
3	16QAM	8	7	12.98	13.14	12.95	14
3	16QAM	15	0	13.03	13.11	13.05	
3	64QAM	1	0	12.93	13.07	13.09	
3	64QAM	1	8	13.06	12.98	13.15	14
3	64QAM	1	14	12.88	12.74	13.19	
3	64QAM	8	0	13.07	13.00	12.94	
3	64QAM	8	4	13.21	13.01	12.80	14
3	64QAM	8	7	12.97	13.05	12.88	
3	64QAM	15	0	13.28	12.95	12.96	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	14.88	15.04	15.08	16
1.4	QPSK	1	3	14.92	15.15	15.02	
1.4	QPSK	1	5	15.05	15.06	14.90	
1.4	QPSK	3	0	14.50	14.88	14.82	
1.4	QPSK	3	1	14.42	14.67	14.56	
1.4	QPSK	3	3	14.75	14.56	14.66	
1.4	QPSK	6	0	13.99	14.13	14.23	15
1.4	16QAM	1	0	13.83	14.21	13.92	15
1.4	16QAM	1	3	13.84	13.72	13.72	
1.4	16QAM	1	5	13.81	13.82	13.82	
1.4	16QAM	3	0	13.20	13.23	12.94	
1.4	16QAM	3	1	13.29	13.03	13.34	
1.4	16QAM	3	3	13.00	12.86	13.14	
1.4	16QAM	6	0	13.03	13.41	13.01	14
1.4	64QAM	1	0	13.11	13.05	13.15	14
1.4	64QAM	1	3	12.88	12.93	13.24	
1.4	64QAM	1	5	13.29	13.22	13.18	
1.4	64QAM	3	0	13.14	12.91	12.97	
1.4	64QAM	3	1	12.91	13.17	13.26	
1.4	64QAM	3	3	13.12	13.25	13.29	
1.4	64QAM	6	0	13.01	13.04	13.14	14

3	QPSK	15	0	13.49	13.44	13.52	14.5
3	16QAM	1	0	13.71	13.79	12.75	
3	16QAM	1	8	13.92	13.62	12.40	
3	16QAM	1	14	13.93	13.85	13.52	13.5
3	16QAM	8	0	12.83	12.90	12.85	
3	16QAM	8	4	12.81	12.69	12.86	
3	16QAM	8	7	12.99	12.70	12.78	13.5
3	16QAM	15	0	12.50	12.89	12.86	
3	64QAM	1	0	12.68	12.79	12.76	
3	64QAM	1	8	13.11	12.91	12.87	13.5
3	64QAM	1	14	12.85	12.91	12.71	
3	64QAM	8	0	12.88	12.83	12.76	
3	64QAM	8	4	12.61	12.77	12.67	13.5
3	64QAM	8	7	12.80	12.85	12.96	
3	64QAM	15	0	12.70	12.72	12.66	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	14.78	14.77	13.60	15.5
1.4	QPSK	1	3	14.69	14.67	13.60	
1.4	QPSK	1	5	14.63	14.61	13.36	
1.4	QPSK	3	0	13.83	13.74	13.38	
1.4	QPSK	3	1	14.01	13.76	13.45	
1.4	QPSK	3	3	13.36	13.94	13.65	
1.4	QPSK	6	0	13.72	13.64	13.46	14.5
1.4	16QAM	1	0	13.98	13.84	12.72	14.5
1.4	16QAM	1	3	13.53	13.81	12.52	
1.4	16QAM	1	5	13.72	13.63	13.87	
1.4	16QAM	3	0	12.95	13.10	12.71	
1.4	16QAM	3	1	12.78	12.83	12.62	
1.4	16QAM	3	3	12.83	12.84	12.79	
1.4	16QAM	6	0	12.52	12.61	12.19	13.5
1.4	64QAM	1	0	12.81	12.87	12.68	13.5
1.4	64QAM	1	3	12.88	12.99	13.08	
1.4	64QAM	1	5	12.80	12.93	12.48	
1.4	64QAM	3	0	12.75	12.98	12.62	
1.4	64QAM	3	1	12.55	12.74	12.90	
1.4	64QAM	3	3	12.99	12.80	12.77	
1.4	64QAM	6	0	12.92	12.86	12.46	13.5

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	18.19	18.31	18.25	19		
10	QPSK	1	25	18.09	18.21	18.04			
10	QPSK	1	49	18.06	18.07	18.12			
10	QPSK	25	0	17.35	17.45	17.44	18		
10	QPSK	25	12	17.29	17.34	17.34			
10	QPSK	25	25	17.26	17.34	17.37			
10	QPSK	50	0	17.15	17.28	17.32	18		
10	16QAM	1	0	17.29	17.40	17.38			
10	16QAM	1	25	17.28	17.26	17.42			
10	16QAM	1	49	17.21	17.17	17.39	17		
10	16QAM	25	0	16.49	16.44	16.41			
10	16QAM	25	12	16.42	16.40	16.40			
10	16QAM	25	25	16.40	16.42	16.28	17		
10	16QAM	50	0	16.39	16.43	16.36			
10	64QAM	1	0	16.36	16.36	16.36			
10	64QAM	1	25	16.31	16.29	16.34	17		
10	64QAM	1	49	16.37	16.19	16.26			
10	64QAM	25	0	16.36	16.44	16.23			
10	64QAM	25	12	16.31	16.35	16.18	17		
10	64QAM	25	25	16.26	16.32	16.14			
10	64QAM	50	0	16.20	16.23	16.10			
Channel				20425	20525	20625	Tune-up limit (dBm)		
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	18.15	18.20	18.21			
5	QPSK	1	12	18.14	18.15	18.20	19		
5	QPSK	1	24	17.94	18.12	18.13			
5	QPSK	12	0	17.55	17.25	17.40	18		
5	QPSK	12	7	17.29	17.43	17.34			
5	QPSK	12	13	17.45	17.24	17.27			
5	QPSK	25	0	17.34	17.37	17.39	18		
5	16QAM	1	0	17.49	17.44	17.31			
5	16QAM	1	12	17.41	17.12	17.35			
5	16QAM	1	24	17.20	17.08	17.33	17		
5	16QAM	12	0	16.49	16.40	16.21			
5	16QAM	12	7	16.32	16.29	16.37			
5	16QAM	12	13	16.21	16.28	16.16	17		
5	16QAM	25	0	16.27	16.30	16.27			
5	64QAM	1	0	16.20	16.39	16.38			
5	64QAM	1	12	16.48	16.18	16.32	17		
5	64QAM	1	24	16.27	16.31	16.45			
5	64QAM	12	0	16.31	16.24	16.40			
5	64QAM	12	7	16.13	16.27	16.32	17		
5	64QAM	12	13	16.06	16.38	16.15			
5	64QAM	25	0	16.40	16.42	16.04			
Channel				20415	20525	20635	Tune-up limit (dBm)		
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	18.10	18.22	18.11			
3	QPSK	1	8	18.12	18.21	17.91	19		
3	QPSK	1	14	18.08	17.96	17.98			
3	QPSK	8	0	17.40	17.46	17.40	18		
3	QPSK	8	4	17.39	17.21	17.22			
3	QPSK	8	7	17.46	17.40	17.43			
3	QPSK	15	0	16.98	17.38	17.20	18		
3	16QAM	1	0	17.20	17.42	17.39			
3	16QAM	1	8	17.35	17.32	17.41			
3	16QAM	1	14	17.35	17.28	17.28	17		
3	16QAM	8	0	16.30	16.63	16.27			
3	16QAM	8	4	16.29	16.32	16.34			
3	16QAM	8	7	16.20	16.32	16.17	17		
3	16QAM	15	0	16.30	16.34	16.38			
3	64QAM	1	0	16.20	16.25	16.26			
3	64QAM	1	8	16.24	16.17	16.43	17		
3	64QAM	1	14	16.42	16.05	16.24			
3	64QAM	8	0	16.46	16.29	16.10			
3	64QAM	8	4	16.37	16.47	16.26	17		
3	64QAM	8	7	16.20	16.24	16.24			
3	64QAM	15	0	16.02	16.33	16.02			
Channel				20407	20525	20643	Tune-up limit (dBm)		
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	18.16	18.26	18.18			
1.4	QPSK	1	3	18.12	18.14	18.14	19		
1.4	QPSK	1	5	18.17	17.93	18.15			
1.4	QPSK	3	0	17.52	17.23	17.46			
1.4	QPSK	3	1	17.10	17.28	17.27	18		
1.4	QPSK	3	3	17.45	17.30	17.37			
1.4	QPSK	6	0	17.35	17.38	17.21			
1.4	16QAM	1	0	17.38	17.58	17.51	18		
1.4	16QAM	1	3	17.29	17.28	17.53			
1.4	16QAM	1	5	17.28	17.15	17.27			
1.4	16QAM	3	0	16.57	16.59	16.51	17		
1.4	16QAM	3	1	16.31	16.28	16.22			
1.4	16QAM	3	3	16.28	16.38	16.32			
1.4	16QAM	6	0	16.38	16.48	16.45	17		
1.4	64QAM	1	0	16.21	16.45	16.42			
1.4	64QAM	1	3	16.27	16.45	16.26			
1.4	64QAM	1	5	16.37	16.09	16.10	17		
1.4	64QAM	3	0	16.35	16.34	16.37			
1.4	64QAM	3	1	16.24	16.30	16.13			
1.4	64QAM	3	3	16.20	16.38	16.19	17		
1.4	64QAM	6	0	16.00	16.30	15.91			

Band 7 (2600MHz Band) (dBm) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	14.25	14.39	14.28	15
20	QPSK	1	49	14.24	14.24	14.10	
20	QPSK	1	99	14.16	14.20	13.90	
20	QPSK	50	0	13.45	13.46	13.14	
20	QPSK	50	24	13.35	13.36	13.24	14
20	QPSK	50	50	13.32	13.27	13.16	
20	QPSK	100	0	13.37	13.21	13.11	
20	16QAM	1	0	13.33	13.31	13.11	
20	16QAM	1	49	13.41	13.38	13.08	14
20	16QAM	1	99	13.41	13.30	12.93	
20	16QAM	50	0	12.56	12.46	12.21	
20	16QAM	50	24	12.51	12.39	12.16	
20	16QAM	50	50	12.47	12.37	12.17	13
20	16QAM	100	0	12.48	12.32	12.15	
20	64QAM	1	0	12.48	12.43	12.10	
20	64QAM	1	49	12.35	12.42	12.07	
20	64QAM	1	99	12.32	12.34	12.10	13
20	64QAM	50	0	12.43	12.27	12.03	
20	64QAM	50	24	12.31	12.23	12.06	
20	64QAM	50	50	12.35	12.19	11.91	
20	64QAM	100	0	12.40	12.19	11.94	13
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	14.19	14.32	14.33	
15	QPSK	1	37	14.29	14.20	14.12	
15	QPSK	1	74	14.10	14.16	13.72	
15	QPSK	36	0	13.43	13.29	13.16	
15	QPSK	36	20	13.22	13.45	13.32	14
15	QPSK	36	39	13.25	13.26	13.21	
15	QPSK	75	0	13.41	13.34	12.94	
15	16QAM	1	0	13.21	13.17	13.31	
15	16QAM	1	37	13.44	13.31	13.24	14
15	16QAM	1	74	13.31	13.29	13.10	
15	16QAM	36	0	12.41	12.44	12.37	
15	16QAM	36	20	12.45	12.38	12.15	
15	16QAM	36	39	12.29	12.23	12.09	13
15	16QAM	75	0	12.32	12.20	12.22	
15	64QAM	1	0	12.30	12.59	12.03	
15	64QAM	1	37	12.55	12.55	12.07	
15	64QAM	1	74	12.48	12.26	11.99	13
15	64QAM	36	0	12.23	12.41	12.15	
15	64QAM	36	20	12.21	12.03	11.90	
15	64QAM	36	39	12.43	11.99	11.71	
15	64QAM	75	0	12.54	11.99	11.80	13
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	14.17	14.30	14.19	
10	QPSK	1	25	14.33	14.34	14.00	
10	QPSK	1	49	14.07	14.04	13.85	
10	QPSK	25	0	13.60	13.14	13.06	
10	QPSK	25	12	13.29	13.51	13.24	14
10	QPSK	25	25	13.44	13.26	13.26	
10	QPSK	50	0	13.36	13.02	13.27	
10	16QAM	1	0	13.44	13.41	13.31	
10	16QAM	1	25	13.59	13.26	12.99	14
10	16QAM	1	49	13.23	13.19	12.97	
10	16QAM	25	0	12.51	12.41	12.17	
10	16QAM	25	12	12.35	12.24	12.03	
10	16QAM	25	25	12.59	12.32	12.08	13
10	16QAM	50	0	12.44	12.22	12.23	
10	64QAM	1	0	12.43	12.43	12.28	
10	64QAM	1	25	12.54	12.33	11.93	
10	64QAM	1	49	12.49	12.17	12.24	13
10	64QAM	25	0	12.56	12.31	11.97	
10	64QAM	25	12	12.32	12.08	12.06	
10	64QAM	25	25	12.38	12.31	12.10	
10	64QAM	50	0	12.55	12.13	11.76	13
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	14.29	14.21	14.25	
5	QPSK	1	12	14.12	12.15	14.13	
5	QPSK	1	24	14.22	14.12	13.77	
5	QPSK	12	0	13.35	13.41	13.16	
5	QPSK	12	7	13.29	13.33	13.34	14
5	QPSK	12	13	13.14	13.14	13.34	
5	QPSK	25	0	13.21	13.30	13.14	
5	16QAM	1	0	13.40	13.28	13.24	
5	16QAM	1	12	13.49	13.36	13.26	14
5	16QAM	1	24	13.42	13.42	13.03	
5	16QAM	12	0	12.43	12.46	12.22	
5	16QAM	12	7	12.42	12.46	11.96	
5	16QAM	12	13	12.31	12.40	12.28	13
5	16QAM	25	0	12.52	12.33	12.18	
5	64QAM	1	0	12.54	12.29	12.29	
5	64QAM	1	12	12.43	12.54	11.95	
5	64QAM	1	24	12.46	12.48	12.17	13
5	64QAM	12	0	12.46	12.13	12.01	
5	64QAM	12	7	12.25	12.09	12.10	
5	64QAM	12	13	12.19	12.28	12.10	
5	64QAM	25	0	12.45	12.10	11.93	13

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	15.45	15.54	15.47	16.5
10	QPSK	1	25	15.44	15.48	15.35	
10	QPSK	1	49	15.39	15.46	15.28	
10	QPSK	25	0	14.82	14.83	14.76	15.5
10	QPSK	25	12	14.74	14.66	14.72	
10	QPSK	25	25	14.74	14.68	14.70	
10	QPSK	50	0	14.73	14.62	14.64	15.5
10	16QAM	1	0	14.84	14.94	14.75	
10	16QAM	1	25	14.87	14.88	14.57	
10	16QAM	1	49	14.57	14.88	14.52	14.5
10	16QAM	25	0	13.92	13.85	13.79	
10	16QAM	25	12	13.93	13.79	13.76	
10	16QAM	25	25	13.86	13.74	13.75	14.5
10	16QAM	50	0	13.83	13.68	13.76	
10	64QAM	1	0	13.71	13.81	13.66	
10	64QAM	1	25	13.65	13.86	13.51	14.5
10	64QAM	1	49	13.54	13.80	13.40	
10	64QAM	25	0	13.75	13.88	13.79	
10	64QAM	25	12	13.77	13.97	13.74	14.5
10	64QAM	25	25	13.90	13.90	13.74	
10	64QAM	50	0	13.87	13.86	13.69	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	15.50	15.51	15.39	16.5
5	QPSK	1	12	15.30	15.36	15.23	
5	QPSK	1	24	15.40	15.28	15.39	
5	QPSK	12	0	14.79	14.55	14.95	15.5
5	QPSK	12	7	14.94	14.46	14.81	
5	QPSK	12	13	14.94	14.64	14.79	
5	QPSK	25	0	14.72	14.58	14.72	15.5
5	16QAM	1	0	14.83	14.75	14.93	
5	16QAM	1	12	14.91	14.75	14.77	
5	16QAM	1	24	14.57	14.80	14.34	14.5
5	16QAM	12	0	14.02	14.02	13.98	
5	16QAM	12	7	13.78	13.86	13.74	
5	16QAM	12	13	14.00	13.57	13.66	14.5
5	16QAM	25	0	13.96	13.87	13.93	
5	64QAM	1	0	13.69	13.89	13.54	
5	64QAM	1	12	13.78	13.93	13.47	14.5
5	64QAM	1	24	13.42	13.68	13.47	
5	64QAM	12	0	13.78	14.08	13.84	
5	64QAM	12	7	13.86	14.03	13.75	14.5
5	64QAM	12	13	13.93	13.83	13.73	
5	64QAM	25	0	13.67	13.75	13.77	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	15.36	14.49	15.51	16.5
3	QPSK	1	8	15.51	15.41	15.27	
3	QPSK	1	14	15.50	15.42	15.40	
3	QPSK	8	0	14.96	14.74	14.84	15.5
3	QPSK	8	4	14.79	14.50	14.84	
3	QPSK	8	7	14.84	14.87	14.56	
3	QPSK	15	0	14.92	14.68	14.48	15.5
3	16QAM	1	0	14.73	14.90	14.82	
3	16QAM	1	8	15.87	14.99	14.50	
3	16QAM	1	14	14.68	14.84	14.66	14.5
3	16QAM	8	0	13.74	13.89	13.68	
3	16QAM	8	4	13.73	13.70	13.70	
3	16QAM	8	7	13.90	13.58	13.67	14.5
3	16QAM	15	0	13.91	13.49	13.75	
3	64QAM	1	0	13.64	13.62	13.70	
3	64QAM	1	8	13.72	13.78	13.59	14.5
3	64QAM	1	14	13.46	13.89	13.54	
3	64QAM	8	0	13.95	13.80	13.71	
3	64QAM	8	4	13.67	13.72	13.60	14.5
3	64QAM	8	7	13.63	13.73	13.75	
3	64QAM	15	0	13.86	13.71	13.64	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	15.35	15.46	15.50	16.5
1.4	QPSK	1	3	15.46	15.44	15.50	
1.4	QPSK	1	5	15.36	15.33	15.16	
1.4	QPSK	3	0	14.67	14.87	14.56	15.5
1.4	QPSK	3	1	14.61	14.67	14.53	
1.4	QPSK	3	3	14.66	14.62	14.72	
1.4	QPSK	6	0	14.53	14.54	14.68	15.5
1.4	16QAM	1	0	14.81	15.05	14.65	
1.4	16QAM	1	3	14.79	15.03	14.43	
1.4	16QAM	1	5	14.50	14.69	14.62	15.5
1.4	16QAM	3	0	13.77	13.95	13.80	
1.4	16QAM	3	1	14.08	13.99	13.73	
1.4	16QAM	3	3	14.05	13.70	13.76	14.5
1.4	16QAM	6	0	13.96	13.72	13.90	
1.4	64QAM	1	0	13.76	14.01	13.78	
1.4	64QAM	1	3	13.51	13.89	13.52	14.5
1.4	64QAM	1	5	13.53	13.70	13.47	
1.4	64QAM	3	0	13.84	13.87	13.77	
1.4	64QAM	3	1	13.76	13.99	13.59	14.5
1.4	64QAM	3	3	13.80	13.93	13.67	
1.4	64QAM	6	0	13.78	13.96	13.60	

Band 13(700MHz Band) (dBm) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		17.75		18.5
10	QPSK	1	25		17.53		
10	QPSK	1	49		17.63		
10	QPSK	25	0		16.75		17.5
10	QPSK	25	12		16.76		
10	QPSK	25	25		16.63		
10	QPSK	50	0		16.59		17.5
10	16QAM	1	0		16.70		
10	16QAM	1	25		16.59		
10	16QAM	1	49		16.48		16.5
10	16QAM	25	0		15.65		
10	16QAM	25	12		15.65		
10	16QAM	25	25		15.63		16.5
10	16QAM	50	0		15.60		
10	64QAM	1	0		15.97		
10	64QAM	1	25		15.87		16.5
10	64QAM	1	49		15.89		
10	64QAM	25	0		15.60		
10	64QAM	25	12		15.54		16.5
10	64QAM	25	25		15.44		
10	64QAM	50	0		15.41		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	17.64	17.69	17.68	18.5
5	QPSK	1	12	17.66	17.68	17.67	
5	QPSK	1	24	17.53	17.65	17.61	
5	QPSK	12	0	16.81	16.86	16.85	17.5
5	QPSK	12	7	16.82	16.85	16.81	
5	QPSK	12	13	16.73	16.77	16.76	
5	QPSK	25	0	16.68	16.73	16.75	17.5
5	16QAM	1	0	16.79	16.79	16.81	
5	16QAM	1	12	16.63	16.67	16.65	
5	16QAM	1	24	16.49	16.57	16.56	16.5
5	16QAM	12	0	15.67	15.81	15.75	
5	16QAM	12	7	15.66	15.74	15.71	
5	16QAM	12	13	15.65	15.73	15.66	16.5
5	16QAM	25	0	15.66	15.75	15.69	
5	64QAM	1	0	15.89	15.98	15.93	
5	64QAM	1	12	15.81	15.92	15.84	16.5
5	64QAM	1	24	15.80	15.87	15.85	
5	64QAM	12	0	15.65	15.71	15.69	
5	64QAM	12	7	15.58	15.65	15.64	16.5
5	64QAM	12	13	15.49	15.60	15.49	
5	64QAM	25	0	15.49	15.57	15.45	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	15.19	15.32	15.21	16
10	QPSK	1	25	15.20	15.20	15.17	
10	QPSK	1	49	15.06	15.16	15.10	
10	QPSK	25	0	14.31	14.33	14.35	15
10	QPSK	25	12	14.28	14.29	14.28	
10	QPSK	25	25	14.22	14.30	14.18	
10	QPSK	50	0	14.20	14.30	14.16	15
10	16QAM	1	0	14.39	14.39	14.31	
10	16QAM	1	25	14.21	14.21	14.39	
10	16QAM	1	49	14.16	14.18	14.38	14.5
10	16QAM	25	0	13.59	13.66	13.80	
10	16QAM	25	12	13.63	13.61	13.74	
10	16QAM	25	25	13.53	13.50	13.60	14.5
10	16QAM	50	0	13.50	13.53	13.62	
10	64QAM	1	0	13.73	13.86	13.95	
10	64QAM	1	25	13.72	13.73	13.92	14.5
10	64QAM	1	49	13.69	13.72	13.87	
10	64QAM	25	0	13.62	13.67	13.82	
10	64QAM	25	12	13.60	13.68	13.78	14.5
10	64QAM	25	25	13.52	13.60	13.67	
10	64QAM	50	0	13.51	13.55	13.67	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	15.24	15.25	15.26	16
5	QPSK	1	12	15.06	15.26	15.09	
5	QPSK	1	24	15.24	15.11	15.03	
5	QPSK	12	0	14.48	14.33	14.35	15
5	QPSK	12	7	14.12	14.38	14.08	
5	QPSK	12	13	14.29	14.10	14.34	
5	QPSK	25	0	14.19	14.43	14.33	15
5	16QAM	1	0	14.32	14.57	14.20	
5	16QAM	1	12	14.17	14.34	14.21	
5	16QAM	1	24	14.05	14.38	14.38	14.5
5	16QAM	12	0	13.70	13.67	13.92	
5	16QAM	12	7	13.80	13.69	13.59	
5	16QAM	12	13	13.60	13.62	13.77	14.5
5	16QAM	25	0	13.31	13.43	13.68	
5	64QAM	1	0	13.56	13.97	13.82	
5	64QAM	1	12	13.54	13.58	13.80	14.5
5	64QAM	1	24	13.82	13.68	13.97	
5	64QAM	12	0	13.49	13.58	13.97	
5	64QAM	12	7	13.60	13.59	13.82	14.5
5	64QAM	12	13	13.47	13.61	13.78	
5	64QAM	25	0	13.32	13.75	13.51	

Band 26 for FCC (dBm) (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	17.79	17.85	17.81	18.5
15	QPSK	1	37	17.74	17.69	17.73	
15	QPSK	1	74	17.67	17.64	17.65	
15	QPSK	36	0	17.05	17.04	16.94	17.5
15	QPSK	36	20	16.99	16.95	16.90	
15	QPSK	36	39	16.86	16.95	16.86	
15	QPSK	75	0	16.99	16.68	16.89	17.5
15	16QAM	1	0	16.98	16.95	16.88	
15	16QAM	1	37	17.02	16.93	16.95	
15	16QAM	1	74	16.93	16.88	16.81	17
15	16QAM	36	0	16.20	16.10	16.02	
15	16QAM	36	20	16.17	16.08	16.03	
15	16QAM	36	39	16.03	15.99	15.92	17
15	16QAM	75	0	16.01	16.01	15.88	
15	64QAM	1	0	16.48	16.46	16.41	
15	64QAM	1	37	16.39	16.29	16.34	17
15	64QAM	1	74	16.34	16.25	16.34	
15	64QAM	36	0	15.94	15.91	15.97	
15	64QAM	36	20	16.02	15.99	16.05	17
15	64QAM	36	39	15.91	15.98	15.92	
15	64QAM	75	0	15.90	15.93	15.89	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	17.65	17.78	17.75	18.5
10	QPSK	1	25	17.64	17.82	17.72	
10	QPSK	1	49	17.78	17.78	17.64	
10	QPSK	25	0	17.00	17.10	16.80	17.5
10	QPSK	25	12	16.92	16.97	16.79	
10	QPSK	25	25	16.78	16.79	16.88	
10	QPSK	50	0	16.90	16.66	16.91	17.5
10	16QAM	1	0	17.06	17.03	16.77	
10	16QAM	1	25	16.83	16.93	16.86	
10	16QAM	1	49	17.12	16.99	16.92	17
10	16QAM	25	0	16.29	15.99	16.06	
10	16QAM	25	12	16.02	16.26	15.83	
10	16QAM	25	25	16.12	16.12	15.95	17
10	16QAM	50	0	16.19	16.11	15.97	
10	64QAM	1	0	16.54	16.58	16.47	
10	64QAM	1	25	16.54	16.40	16.36	17
10	64QAM	1	49	16.14	16.05	16.26	
10	64QAM	25	0	15.84	15.75	16.15	
10	64QAM	25	12	16.02	16.18	15.92	17
10	64QAM	25	25	15.92	16.17	15.85	
10	64QAM	50	0	15.83	15.94	15.95	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	17.61	17.79	17.76	18.5
5	QPSK	1	12	17.66	17.71	17.82	
5	QPSK	1	24	17.62	17.80	17.64	
5	QPSK	12	0	16.85	17.16	16.85	17.5
5	QPSK	12	7	17.06	16.84	16.78	
5	QPSK	12	13	16.95	17.01	16.95	
5	QPSK	25	0	16.85	16.77	16.70	17.5
5	16QAM	1	0	16.86	17.03	17.07	
5	16QAM	1	12	17.21	17.03	16.91	
5	16QAM	1	24	16.89	16.80	16.88	17
5	16QAM	12	0	16.27	16.19	15.93	
5	16QAM	12	7	16.28	15.97	15.93	
5	16QAM	12	13	15.94	16.07	15.88	17
5	16QAM	25	0	16.16	16.20	15.91	
5	64QAM	1	0	16.62	16.37	16.31	
5	64QAM	1	12	16.48	16.37	16.47	17
5	64QAM	1	24	16.53	16.28	16.49	
5	64QAM	12	0	16.13	16.11	15.83	
5	64QAM	12	7	15.98	16.15	15.89	17
5	64QAM	12	13	15.75	16.06	15.81	
5	64QAM	25	0	15.88	16.10	16.01	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	17.70	17.72	17.72	18.5
3	QPSK	1	8	17.76	17.74	17.67	
3	QPSK	1	14	17.70	17.63	17.61	
3	QPSK	8	0	17.08	16.84	17.04	17.5
3	QPSK	8	4	16.81	16.83	16.98	
3	QPSK	8	7	16.82	16.82	16.99	
3	QPSK	15	0	16.81	16.75	16.87	17.5
3	16QAM	1	0	17.12	16.83	16.93	
3	16QAM	1	8	17.20	16.80	17.08	
3	16QAM	1	14	16.79	16.73	16.83	17
3	16QAM	8	0	16.06	16.21	16.17	
3	16QAM	8	4	16.07	16.26	16.16	
3	16QAM	8	7	15.97	15.85	15.79	17
3	16QAM	15	0	15.81	15.87	16.01	
3	64QAM	1	0	16.29	16.32	16.23	
3	64QAM	1	8	16.20	16.41	16.33	17
3	64QAM	1	14	16.36	16.45	16.49	
3	64QAM	8	0	15.78	15.73	15.78	
3	64QAM	8	4	16.03	15.92	16.07	17
3	64QAM	8	7	15.90	15.81	15.78	
3	64QAM	15	0	15.99	15.80	16.06	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	17.62	17.68	17.74	18.5
1.4	QPSK	1	3	17.68	17.78	17.62	
1.4	QPSK	1	5	17.79	17.72	17.45	
1.4	QPSK	3	0	17.05	16.85	16.87	
1.4	QPSK	3	1	17.17	16.99	16.83	
1.4	QPSK	3	3	16.85	16.98	16.81	

1.4	QPSK	6	0	17.15	16.78	16.98	17.5
1.4	16QAM	1	0	16.82	16.89	16.96	17.5
1.4	16QAM	1	3	16.92	16.83	16.85	
1.4	16QAM	1	5	17.13	16.88	16.80	
1.4	16QAM	3	0	16.12	16.20	15.99	
1.4	16QAM	3	1	16.27	15.88	16.18	
1.4	16QAM	3	3	16.06	15.79	16.10	
1.4	16QAM	6	0	15.82	15.94	15.79	17
1.4	64QAM	1	0	16.43	16.39	16.45	17
1.4	64QAM	1	3	16.58	16.42	16.28	
1.4	64QAM	1	5	16.26	16.45	16.23	
1.4	64QAM	3	0	15.91	15.85	16.06	
1.4	64QAM	3	1	16.19	16.06	16.23	
1.4	64QAM	3	3	16.00	15.81	15.76	
1.4	64QAM	6	0	15.85	15.98	15.92	17

Band 66 (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	15
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	14.10	14.19	14.16	15
20	QPSK	1	49	13.87	13.84	13.78	
20	QPSK	1	99	13.82	13.64	13.70	
20	QPSK	50	0	12.98	12.99	12.85	
20	QPSK	50	24	12.93	12.89	12.93	14
20	QPSK	50	50	12.93	12.77	12.77	
20	QPSK	100	0	12.89	12.95	12.77	
20	16QAM	1	0	12.92	12.83	12.85	
20	16QAM	1	49	12.84	12.88	12.88	14
20	16QAM	1	99	12.93	12.78	12.78	
20	16QAM	50	0	12.11	12.04	12.09	
20	16QAM	50	24	11.96	12.04	12.00	
20	16QAM	50	50	12.00	11.97	12.01	13
20	16QAM	100	0	11.92	11.92	11.98	
20	64QAM	1	0	12.84	12.87	12.90	
20	64QAM	1	49	12.89	12.84	12.88	
20	64QAM	1	99	12.73	12.72	12.81	13.5
20	64QAM	50	0	11.82	11.77	11.95	
20	64QAM	50	24	11.85	11.79	11.84	
20	64QAM	50	50	11.74	11.79	11.83	
20	64QAM	100	0	11.81	11.82	11.72	12.5
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	15
15	QPSK	1	0	14.15	14.10	14.15	
15	QPSK	1	37	13.86	14.00	13.65	15
15	QPSK	1	74	13.96	13.81	13.73	
15	QPSK	36	0	13.09	13.08	12.67	
15	QPSK	36	20	13.09	12.69	12.87	
15	QPSK	36	39	12.73	12.81	12.88	14
15	QPSK	75	0	12.87	13.08	12.64	
15	16QAM	1	0	13.07	13.03	12.91	
15	16QAM	1	37	12.96	13.07	12.72	
15	16QAM	1	74	13.04	12.73	12.68	14
15	16QAM	36	0	11.92	11.84	12.13	
15	16QAM	36	20	12.06	12.05	11.92	
15	16QAM	36	39	12.08	11.83	11.89	
15	16QAM	75	0	11.88	11.98	11.78	13
15	64QAM	1	0	12.83	12.80	12.91	
15	64QAM	1	37	12.92	12.92	12.83	
15	64QAM	1	74	12.58	12.84	12.70	
15	64QAM	36	0	11.63	11.70	11.83	12.5
15	64QAM	36	20	11.85	11.69	11.82	
15	64QAM	36	39	11.70	11.76	11.93	
15	64QAM	75	0	11.71	12.01	11.79	
Channel				132022	132322	132622	15
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.08	14.12	14.08	15
10	QPSK	1	25	13.84	13.66	13.84	
10	QPSK	1	49	13.84	13.61	13.76	
10	QPSK	25	0	13.16	12.82	12.89	
10	QPSK	25	12	13.01	13.04	12.81	14
10	QPSK	25	25	13.02	12.62	12.73	
10	QPSK	50	0	12.98	12.80	12.77	
10	16QAM	1	0	13.12	12.79	12.77	
10	16QAM	1	25	12.77	12.85	12.72	14
10	16QAM	1	49	13.10	12.67	12.72	
10	16QAM	25	0	12.17	11.91	12.22	
10	16QAM	25	12	11.95	11.93	11.97	
10	16QAM	25	25	12.14	11.89	12.17	13
10	16QAM	50	0	12.02	11.76	11.89	
10	64QAM	1	0	12.95	13.00	12.70	
10	64QAM	1	25	12.71	12.70	12.86	
10	64QAM	1	49	12.90	12.54	12.93	13.5
10	64QAM	25	0	11.82	11.68	11.83	
10	64QAM	25	12	11.66	11.76	11.92	
10	64QAM	25	25	11.85	11.67	11.66	
10	64QAM	50	0	12.01	11.80	11.55	12.5
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	15
5	QPSK	1	0	13.97	14.14	14.04	
5	QPSK	1	12	13.78	13.67	13.67	15
5	QPSK	1	24	13.99	13.82	13.72	
5	QPSK	12	0	12.97	13.13	12.99	
5	QPSK	12	7	12.78	13.04	13.05	
5	QPSK	12	13	12.91	12.60	12.83	14
5	QPSK	25	0	12.80	12.92	12.81	
5	16QAM	1	0	12.72	12.70	12.78	
5	16QAM	1	12	12.81	12.78	13.07	
5	16QAM	1	24	12.84	12.81	12.85	14
5	16QAM	12	0	12.14	12.13	12.07	
5	16QAM	12	7	11.82	12.04	12.08	
5	16QAM	12	13	12.02	11.81	11.84	
5	16QAM	25	0	11.89	12.03	12.15	13.5
5	64QAM	1	0	12.82	13.06	13.10	
5	64QAM	1	12	12.91	12.94	12.92	
5	64QAM	1	24	12.83	12.72	12.86	
5	64QAM	12	0	11.66	11.70	12.10	12.5
5	64QAM	12	7	11.69	11.85	11.80	
5	64QAM	12	13	11.93	11.91	11.72	
5	64QAM	25	0	11.61	11.80	11.92	
Channel				131987	132322	132657	15
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.03	14.08	14.04	15
3	QPSK	1	8	13.69	13.67	13.62	
3	QPSK	1	14	14.02	13.82	13.58	
3	QPSK	8	0	12.86	12.96	12.89	
3	QPSK	8	4	12.74	12.78	12.96	14
3	QPSK	8	7	13.02	12.68	12.76	

3	QPSK	15	0	12.78	12.88	12.58	14
3	16QAM	1	0	12.80	13.00	12.72	
3	16QAM	1	8	13.03	12.69	12.73	
3	16QAM	1	14	13.11	12.80	12.69	13
3	16QAM	8	0	12.23	12.21	11.91	
3	16QAM	8	4	11.77	12.17	12.05	
3	16QAM	8	7	12.04	12.14	12.01	13.5
3	16QAM	15	0	11.87	11.98	11.88	
3	64QAM	1	0	12.79	12.90	12.75	
3	64QAM	1	8	13.05	12.79	12.94	12.5
3	64QAM	1	14	12.80	12.83	13.01	
3	64QAM	8	0	11.93	11.92	11.75	
3	64QAM	8	4	11.65	11.82	11.78	12.5
3	64QAM	8	7	11.60	11.80	11.75	
3	64QAM	15	0	11.94	11.97	11.75	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.07	14.09	14.04	15
1.4	QPSK	1	3	13.72	13.70	13.93	
1.4	QPSK	1	5	13.96	13.62	13.52	
1.4	QPSK	3	0	13.00	13.02	12.73	
1.4	QPSK	3	1	12.94	12.85	13.11	
1.4	QPSK	3	3	13.05	12.76	12.84	
1.4	QPSK	6	0	12.82	13.02	12.63	14
1.4	16QAM	1	0	13.02	13.02	12.98	14
1.4	16QAM	1	3	12.75	12.98	12.98	
1.4	16QAM	1	5	12.86	12.91	12.75	
1.4	16QAM	3	0	12.22	12.07	11.89	
1.4	16QAM	3	1	11.77	11.85	11.82	
1.4	16QAM	3	3	11.80	12.12	12.21	
1.4	16QAM	6	0	12.08	11.92	11.87	13
1.4	64QAM	1	0	12.99	12.94	13.07	13.5
1.4	64QAM	1	3	13.03	12.98	12.85	
1.4	64QAM	1	5	12.78	12.81	12.72	
1.4	64QAM	3	0	11.70	11.62	11.86	
1.4	64QAM	3	1	11.88	11.91	11.76	
1.4	64QAM	3	3	11.63	11.78	11.87	
1.4	64QAM	6	0	11.74	11.86	11.55	12.5

Band 38(only on channel required) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.51	23.53	23.29	24
20	QPSK	1	49	23.11	23.11	23.00	
20	QPSK	1	99	23.09	23.04	22.95	
20	QPSK	50	0	22.27	22.28	22.18	
20	QPSK	50	24	22.18	22.23	22.14	23
20	QPSK	50	50	22.10	22.21	22.01	
20	QPSK	100	0	22.15	22.21	21.95	
20	16QAM	1	0	22.28	22.21	22.08	
20	16QAM	1	49	22.05	22.10	22.14	23
20	16QAM	1	99	22.11	22.08	22.14	
20	16QAM	50	0	21.36	21.25	21.33	
20	16QAM	50	24	21.29	21.20	21.23	
20	16QAM	50	50	21.21	21.19	21.18	22
20	16QAM	100	0	21.20	21.17	21.15	
20	64QAM	1	0	21.24	21.31	21.40	
20	64QAM	1	49	21.21	21.21	21.36	
20	64QAM	1	99	21.13	21.25	21.33	22
20	64QAM	50	0	20.84	20.89	21.10	
20	64QAM	50	24	20.79	20.88	20.96	
20	64QAM	50	50	20.69	20.87	21.00	
20	64QAM	100	0	20.71	20.87	20.96	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)
15	QPSK	1	0	23.50	23.45	23.12	24
15	QPSK	1	37	22.93	23.13	22.93	
15	QPSK	1	74	23.03	23.00	22.78	
15	QPSK	36	0	22.28	22.21	22.30	
15	QPSK	36	20	22.31	22.03	22.10	23
15	QPSK	36	39	21.98	22.13	22.06	
15	QPSK	75	0	22.32	22.21	21.91	
15	16QAM	1	0	22.25	22.15	22.03	
15	16QAM	1	37	22.14	22.22	21.98	23
15	16QAM	1	74	22.22	22.02	21.94	
15	16QAM	36	0	21.40	21.07	21.33	
15	16QAM	36	20	21.16	21.12	21.22	
15	16QAM	36	39	21.07	21.21	21.02	22
15	16QAM	75	0	21.05	21.17	21.12	
15	64QAM	1	0	21.41	21.15	21.25	
15	64QAM	1	37	21.30	21.28	21.28	
15	64QAM	1	74	21.31	21.32	21.37	22
15	64QAM	36	0	20.68	20.92	21.01	
15	64QAM	36	20	20.72	20.89	20.99	
15	64QAM	36	39	20.63	20.69	20.89	
15	64QAM	75	0	20.77	20.98	20.82	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)
10	QPSK	1	0	23.39	23.50	23.27	24
10	QPSK	1	25	23.08	23.07	22.89	
10	QPSK	1	49	23.05	22.90	23.00	
10	QPSK	25	0	22.26	22.18	22.17	
10	QPSK	25	12	22.15	22.05	22.14	23
10	QPSK	25	25	21.92	22.38	22.10	
10	QPSK	50	0	22.23	22.15	21.90	
10	16QAM	1	0	22.12	22.16	22.27	
10	16QAM	1	25	22.14	22.18	22.02	23
10	16QAM	1	49	21.96	22.13	21.97	
10	16QAM	25	0	21.26	21.35	21.13	
10	16QAM	25	12	21.48	21.28	21.21	
10	16QAM	25	25	21.27	21.26	21.38	22
10	16QAM	50	0	21.00	21.22	21.20	
10	64QAM	1	0	21.36	21.47	21.45	
10	64QAM	1	25	21.38	21.22	21.56	
10	64QAM	1	49	21.18	21.20	21.18	22
10	64QAM	25	0	20.80	20.85	20.96	
10	64QAM	25	12	20.71	21.07	21.13	
10	64QAM	25	25	20.72	21.04	20.89	
10	64QAM	50	0	20.91	20.98	20.94	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)
5	QPSK	1	0	23.45	23.47	23.36	24
5	QPSK	1	12	23.03	23.23	22.84	
5	QPSK	1	24	23.01	23.12	23.01	
5	QPSK	12	0	22.34	22.11	22.11	
5	QPSK	12	7	22.36	22.13	22.05	23
5	QPSK	12	13	21.99	22.06	21.85	
5	QPSK	25	0	21.96	22.28	21.90	
5	16QAM	1	0	22.44	22.03	21.93	
5	16QAM	1	12	22.00	22.27	22.16	23
5	16QAM	1	24	22.15	21.98	22.16	
5	16QAM	12	0	21.48	21.20	21.47	
5	16QAM	12	7	21.15	21.06	21.42	
5	16QAM	12	13	21.11	21.11	20.98	22
5	16QAM	25	0	21.06	21.26	21.02	
5	64QAM	1	0	21.31	21.49	21.24	
5	64QAM	1	12	21.08	21.08	21.49	
5	64QAM	1	24	21.11	21.11	21.26	22
5	64QAM	12	0	20.99	21.06	20.98	
5	64QAM	12	7	20.69	21.02	20.97	
5	64QAM	12	13	20.72	20.86	20.86	
5	64QAM	25	0	20.52	20.71	20.94	

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	18.23			19
10	QPSK	1	25	17.98			
10	QPSK	1	49	17.86			
10	QPSK	25	0	17.14			
10	QPSK	25	12	17.02			18
10	QPSK	25	25	16.97			
10	QPSK	50	0	16.98			
10	16QAM	1	0	17.25			
10	16QAM	1	25	17.09			18
10	16QAM	1	49	17.02			
10	16QAM	25	0	16.23			
10	16QAM	25	12	16.18			
10	16QAM	25	25	16.22			17
10	16QAM	50	0	16.11			
10	64QAM	1	0	16.55			
10	64QAM	1	25	16.50			
10	64QAM	1	49	16.55			17
10	64QAM	25	0	16.40			
10	64QAM	25	12	16.29			
10	64QAM	25	25	16.19			
10	64QAM	50	0	16.20			
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	17.95	18.12	18.08	19
5	QPSK	1	12	17.86	17.90	17.92	
5	QPSK	1	24	17.82	17.79	17.82	
5	QPSK	12	0	16.92	17.02	16.98	
5	QPSK	12	7	16.92	16.97	16.98	18
5	QPSK	12	13	16.83	17.04	16.93	
5	QPSK	25	0	16.80	16.87	16.85	
5	16QAM	1	0	17.05	17.09	17.07	
5	16QAM	1	12	16.97	17.13	16.99	18
5	16QAM	1	24	16.95	17.01	16.96	
5	16QAM	12	0	16.24	16.42	16.42	
5	16QAM	12	7	16.32	16.42	16.34	
5	16QAM	12	13	16.18	16.35	16.24	17
5	16QAM	25	0	16.19	16.28	16.27	
5	64QAM	1	0	16.96	17.00	16.99	
5	64QAM	1	12	16.86	16.93	16.85	
5	64QAM	1	24	16.89	16.92	16.87	17
5	64QAM	12	0	16.15	16.33	16.26	
5	64QAM	12	7	16.14	16.32	16.22	
5	64QAM	12	13	16.12	16.23	16.16	
5	64QAM	25	0	16.00	16.20	16.07	

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	18.74			19.5
10	QPSK	1	25	18.51			
10	QPSK	1	49	18.39			
10	QPSK	25	0	17.64			
10	QPSK	25	12	17.65			18.5
10	QPSK	25	25	17.54			
10	QPSK	50	0	17.58			
10	16QAM	1	0	17.79			
10	16QAM	1	25	17.78			18.5
10	16QAM	1	49	17.71			
10	16QAM	25	0	16.86			
10	16QAM	25	12	16.86			17.5
10	16QAM	25	25	16.85			
10	16QAM	50	0	16.88			
10	64QAM	1	0	17.73			
10	64QAM	1	25	17.74			18.5
10	64QAM	1	49	17.71			
10	64QAM	25	0	16.87			
10	64QAM	25	12	16.88			17.5
10	64QAM	25	25	16.78			
10	64QAM	50	0	16.69			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	18.57	18.63	18.62	19.5
5	QPSK	1	12	18.48	18.42	18.60	
5	QPSK	1	24	18.47	18.43	18.49	
5	QPSK	12	0	17.58	17.64	17.67	
5	QPSK	12	7	17.59	17.66	17.65	18.5
5	QPSK	12	13	17.51	17.54	17.56	
5	QPSK	25	0	17.45	17.49	17.51	
5	16QAM	1	0	17.63	17.72	17.80	
5	16QAM	1	12	17.69	17.76	17.62	18.5
5	16QAM	1	24	17.51	17.65	17.56	
5	16QAM	12	0	16.81	16.84	16.87	
5	16QAM	12	7	16.74	16.92	16.82	
5	16QAM	12	13	16.71	16.98	16.80	17.5
5	16QAM	25	0	16.77	16.90	16.74	
5	64QAM	1	0	17.74	17.80	17.85	
5	64QAM	1	12	17.57	17.82	17.64	
5	64QAM	1	24	17.64	17.69	17.64	18.5
5	64QAM	12	0	16.86	16.88	16.93	
5	64QAM	12	7	16.78	16.85	16.91	
5	64QAM	12	13	16.76	16.90	16.83	
5	64QAM	25	0	16.72	16.90	16.66	17.5

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	7.11	7.50	3.00	95.90
		CH 7	2442	5.81	6.50	3.00	
		CH 13	2472	6.83	7.50	3.00	
	802.11g 6Mbps	CH 1	2412	9.23	10.00	9.00	76.71
		CH 7	2442	8.66	9.50	9.00	
		CH 13	2472	8.96	9.50	9.00	
	802.11n-HT20 MCS0	CH 1	2412	9.10	9.50	11.00	67.68
		CH 7	2442	9.20	10.00	11.00	
		CH 13	2472	9.22	10.00	11.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	5.58	4.72	4.60
	CH 39	2441	5.01	4.00	4.10
	CH 78	2480	4.80	3.90	3.76
Tune-up Limit			6	5.5	5
Duty Cycle %			77.29	76.89	76.99
Power Setting			4	4	4

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	0.51
	CH 19	2440	0.14
	CH 39	2480	-0.18
Tune-up Limit			1
Duty Cycle %			83.71
Power Setting			4