



REPORT No.: SZ23060347S01

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)		Ch Delta +/-0.5
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		32.03	32.07	31.97	33.00			23.03	23.07	22.97	24.00		0.26
GPRS 1 Tx slot		31.88	31.96	31.81	32.50			22.88	22.96	22.81	23.50		
GPRS 2 Tx slots		29.50	29.46	29.38	30.50			23.50	23.46	23.38	24.50		0.12
GPRS 3 Tx slots		27.68	27.62	27.52	28.50			23.42	23.36	23.26	24.24		0.16
GPRS 4 Tx slots		26.60	26.62	26.43	27.50			23.60	23.62	23.43	24.50		0.19
Mode			Max.	32.07					Max.	23.62			
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	1860	1869.8		1850.2	1860	1869.8			
GSM 1 Tx slot		29.69	29.72	29.61	30.50	20.69	20.72	20.61	21.50	0.17	
GPRS 1 Tx slot		29.60	29.68	29.55	30.50	20.60	20.68	20.55	21.50		
GPRS 2 Tx slots		27.89	27.77	27.83	28.50	21.89	21.77	21.83	22.50	0.12	
GPRS 3 Tx slots		25.81	25.74	25.70	26.50	21.55	21.48	21.44	22.24	0.11	
GPRS 4 Tx slots		24.93	24.96	24.97	25.50	21.93	21.96	21.97	22.50	0.04	
EDGE 1 Tx slot		30.43	30.47	30.40	31.00	21.43	21.47	21.40	22.00	0.07	
EDGE 2 Tx slots		28.24	28.66	28.73	29.50	22.24	22.66	22.73	23.50	0.49	
EDGE 3 Tx slots		27.63	27.83	27.88	28.50	23.37	23.57	23.62	24.24	0.25	
EDGE 4 Tx slots		26.03	26.12	26.00	27.00	23.03	23.12	23.00	24.00	0.12	
Mode			Max.	30.47			Max.	23.62			
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	1860	1869.8				1712.4	1732.6	1752.6				206.4	207.4	208.6	
3GPP Rel 99 RMC12.2Kbps		22.01	22.11	21.97	23.00			22.13	22.23	22.16	23.00			22.50	22.50	22.43	23.50
3GPP Rel 5 HSDPA Subtest-1		21.51	21.89	21.67	22.50			21.80	21.23	21.50	22.50			21.81	22.18	21.78	23.00
3GPP Rel 5 HSDPA Subtest-2		20.85	21.14	20.68	22.00			21.88	21.74	21.48	22.00			21.15	21.20	21.50	22.50
3GPP Rel 5 HSDPA Subtest-3		21.81	21.97	21.61	22.50			21.28	21.78	21.56	22.50			21.96	22.21	21.82	23.00
3GPP Rel 5 HSDPA Subtest-4		21.32	21.78	21.56	22.50			20.89	21.47	21.18	22.00			21.63	22.06	21.69	23.00
3GPP Rel 6 HSUPA Subtest-1		20.83	21.45	21.10	22.00			20.93	21.37	20.85	22.00			20.03	20.61	20.23	21.50
3GPP Rel 6 HSUPA Subtest-2		20.94	21.31	20.78	22.00			21.85	21.86	21.75	22.50			21.60	21.99	21.43	22.50
3GPP Rel 6 HSUPA Subtest-3		21.75	21.81	21.63	22.50			20.83	21.19	20.93	22.00			21.14	21.42	21.13	22.00
3GPP Rel 6 HSUPA Subtest-4		20.82	21.10	20.95	22.00			21.26	21.28	21.11	22.00			21.83	21.70	21.96	23.00
3GPP Rel 6 HSUPA Subtest-5		21.14	21.08	21.02	22.00			20.98	21.11	21.17	22.00			20.00	20.36	20.39	21.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1		20.97	21.10	21.00	22.00			19.57	19.90	19.80	20.50			19.97	20.35	20.35	21.00
Attenuator			Cable Loss	0.8					Cable Loss	0.8					Cable Loss	0.6	
Mode			Max.	22.11					Max.	22.23					Max.	22.56	

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	21.02	21.18	21.08	22
20	QPSK	1	49	20.89	21.00	20.91	
20	QPSK	1	99	20.79	20.82	20.74	
20	QPSK	50	0	19.99	20.01	19.96	
20	QPSK	50	24	19.80	19.90	19.88	21
20	QPSK	50	50	19.86	19.94	19.91	
20	QPSK	100	0	19.92	19.97	19.89	
20	16QAM	1	0	20.12	20.16	20.07	
20	16QAM	1	49	20.00	20.03	19.88	21
20	16QAM	1	99	19.85	19.85	19.80	
20	16QAM	50	0	19.05	19.26	18.99	
20	16QAM	50	24	19.14	19.09	19.10	
20	16QAM	50	50	18.99	18.90	18.93	20
20	16QAM	100	0	18.89	18.81	18.84	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	20.95	21.11	20.98	22
15	QPSK	1	37	20.82	20.92	20.81	
15	QPSK	1	74	20.69	20.79	20.65	
15	QPSK	36	0	19.96	19.95	19.92	
15	QPSK	36	20	19.75	19.79	19.79	21
15	QPSK	36	39	19.82	19.86	19.83	
15	QPSK	75	0	19.88	19.91	19.80	
15	16QAM	1	0	20.07	20.13	19.97	
15	16QAM	1	37	19.89	19.96	19.79	21
15	16QAM	1	74	19.76	19.78	19.76	
15	16QAM	36	0	18.96	19.16	18.95	
15	16QAM	36	20	19.10	19.04	19.04	
15	16QAM	36	39	18.92	18.86	18.85	20
15	16QAM	75	0	18.81	18.78	18.74	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	20.96	21.13	21.04	22
10	QPSK	1	25	20.82	20.89	20.82	
10	QPSK	1	49	20.71	20.75	20.70	
10	QPSK	25	0	19.95	19.94	19.91	
10	QPSK	25	12	19.74	19.82	19.82	21
10	QPSK	25	25	19.82	19.86	19.87	
10	QPSK	50	0	19.87	19.86	19.83	
10	16QAM	1	0	20.04	20.11	20.02	
10	16QAM	1	25	19.96	19.98	19.81	21
10	16QAM	1	49	19.79	19.81	19.71	
10	16QAM	25	0	18.97	19.20	18.91	
10	16QAM	25	12	19.08	18.99	19.06	
10	16QAM	25	25	18.95	18.85	18.88	20
10	16QAM	50	0	18.79	18.73	18.81	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.95	21.09	21.02	22
5	QPSK	1	12	20.81	20.91	20.83	
5	QPSK	1	24	20.76	20.72	20.64	
5	QPSK	12	0	19.91	19.90	19.91	
5	QPSK	12	7	19.73	19.79	19.82	21
5	QPSK	12	13	19.77	19.85	19.83	
5	QPSK	25	0	19.85	19.87	19.82	
5	16QAM	1	0	20.07	20.09	20.02	
5	16QAM	1	12	19.93	19.97	19.84	21
5	16QAM	1	24	19.81	19.82	19.70	
5	16QAM	12	0	19.01	19.20	18.95	
5	16QAM	12	7	19.04	19.00	19.06	
5	16QAM	12	13	18.94	18.87	18.89	20
5	16QAM	25	0	18.79	18.74	18.78	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	20.85	21.04	20.94	22
3	QPSK	1	8	20.72	20.87	20.77	
3	QPSK	1	14	20.68	20.62	20.60	
3	QPSK	8	0	19.84	19.80	19.86	
3	QPSK	8	4	19.69	19.72	19.71	21
3	QPSK	8	7	19.72	19.77	19.74	
3	QPSK	15	0	19.82	19.78	19.71	
3	16QAM	1	0	19.99	20.01	19.94	
3	16QAM	1	8	19.82	19.87	19.81	21
3	16QAM	1	14	19.75	19.71	19.64	
3	16QAM	8	0	18.91	19.15	18.86	
3	16QAM	8	4	18.95	18.96	19.01	
3	16QAM	8	7	18.91	18.82	18.82	20
3	16QAM	15	0	18.70	18.63	18.75	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.86	21.02	20.94	22
1.4	QPSK	1	3	20.72	20.88	20.77	
1.4	QPSK	1	5	20.67	20.67	20.54	
1.4	QPSK	3	0	20.36	20.33	20.33	
1.4	QPSK	3	1	20.12	20.26	20.26	21
1.4	QPSK	3	3	20.23	20.25	20.27	
1.4	QPSK	6	0	19.79	19.81	19.78	
1.4	16QAM	1	0	20.03	20.00	19.97	
1.4	16QAM	1	3	19.82	19.87	19.74	21
1.4	16QAM	1	5	19.74	19.75	19.60	
1.4	16QAM	3	0	19.43	19.66	19.39	
1.4	16QAM	3	1	19.47	19.40	19.46	
1.4	16QAM	3	3	19.37	19.28	19.34	20
1.4	16QAM	6	0	18.69	18.65	18.68	

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.76	22.81	22.72	24
20	QPSK	1	49	22.59	22.63	22.56	
20	QPSK	1	99	22.42	22.43	22.42	
20	QPSK	50	0	22.49	22.51	22.36	
20	QPSK	50	24	22.42	22.49	22.38	24
20	QPSK	50	50	22.23	22.30	22.19	
20	QPSK	100	0	22.42	22.43	22.32	
20	16QAM	1	0	22.59	22.63	22.50	
20	16QAM	1	49	22.41	22.58	22.40	24
20	16QAM	1	99	22.24	22.33	22.25	
20	16QAM	50	0	21.61	21.65	21.57	
20	16QAM	50	24	21.59	21.54	21.58	
20	16QAM	50	50	21.41	21.40	21.42	23
20	16QAM	100	0	21.27	21.26	21.34	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.70	22.78	22.65	24
15	QPSK	1	37	22.50	22.58	22.51	
15	QPSK	1	74	22.38	22.38	22.37	
15	QPSK	36	0	22.42	22.43	22.33	
15	QPSK	36	20	22.34	22.44	22.32	24
15	QPSK	36	39	22.14	22.24	22.09	
15	QPSK	75	0	22.48	22.44	22.33	
15	16QAM	1	0	22.52	22.55	22.44	
15	16QAM	1	37	22.34	22.48	22.34	24
15	16QAM	1	74	22.18	22.23	22.21	
15	16QAM	36	0	21.53	21.62	21.48	
15	16QAM	36	20	21.53	21.45	21.52	
15	16QAM	36	39	21.35	21.31	21.37	23
15	16QAM	75	0	21.17	21.17	21.24	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.70	22.74	22.65	24
10	QPSK	1	25	22.50	22.58	22.45	
10	QPSK	1	49	22.38	22.34	22.33	
10	QPSK	25	0	22.40	22.46	22.32	
10	QPSK	25	12	22.38	22.41	22.33	24
10	QPSK	25	25	22.13	22.24	22.15	
10	QPSK	50	0	22.42	22.46	22.38	
10	16QAM	1	0	22.48	22.58	22.44	
10	16QAM	1	25	22.38	22.54	22.33	24
10	16QAM	1	49	22.15	22.28	22.18	
10	16QAM	25	0	21.58	21.61	21.52	
10	16QAM	25	12	21.52	21.43	21.50	
10	16QAM	25	25	21.35	21.35	21.34	23
10	16QAM	50	0	21.20	21.15	21.24	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.67	22.76	22.66	24
5	QPSK	1	12	22.56	22.53	22.46	
5	QPSK	1	24	22.33	22.40	22.34	
5	QPSK	12	0	22.39	22.46	22.26	
5	QPSK	12	7	22.31	22.41	22.35	24
5	QPSK	12	13	22.14	22.22	22.13	
5	QPSK	25	0	22.44	22.48	22.35	
5	16QAM	1	0	22.49	22.53	22.39	
5	16QAM	1	12	22.33	22.53	22.32	24
5	16QAM	1	24	22.14	22.26	22.21	
5	16QAM	12	0	21.58	21.61	21.51	
5	16QAM	12	7	21.49	21.50	21.53	
5	16QAM	12	13	21.38	21.30	21.36	23
5	16QAM	25	0	21.21	21.21	21.26	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.57	22.65	22.60	24
3	QPSK	1	8	22.52	22.50	22.40	
3	QPSK	1	14	22.28	22.31	22.27	
3	QPSK	8	0	22.30	22.35	22.16	
3	QPSK	8	4	22.23	22.36	22.26	24
3	QPSK	8	7	22.08	22.17	22.07	
3	QPSK	15	0	22.33	22.39	22.26	
3	16QAM	1	0	22.41	22.45	22.33	
3	16QAM	1	8	22.26	22.44	22.26	24
3	16QAM	1	14	22.06	22.21	22.17	
3	16QAM	8	0	21.48	21.52	21.43	
3	16QAM	8	4	21.40	21.45	21.44	
3	16QAM	8	7	21.35	21.20	21.31	23
3	16QAM	15	0	21.14	21.11	21.16	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.57	22.72	22.62	24
1.4	QPSK	1	3	22.48	22.42	22.42	
1.4	QPSK	1	5	22.29	22.33	22.26	
1.4	QPSK	3	0	22.34	22.41	22.20	
1.4	QPSK	3	1	22.28	22.31	22.28	
1.4	QPSK	3	3	22.06	22.13	22.08	
1.4	QPSK	6	0	22.34	22.43	22.30	24
1.4	16QAM	1	0	22.44	22.42	22.29	
1.4	16QAM	1	3	22.29	22.49	22.25	24
1.4	16QAM	1	5	22.07	22.17	22.17	
1.4	16QAM	3	0	22.24	22.23	22.12	
1.4	16QAM	3	1	22.09	22.13	22.15	
1.4	16QAM	3	3	22.01	22.09	22.16	
1.4	16QAM	6	0	21.17	21.17	21.16	

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	24.5
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.58	23.61	23.54	24.5
10	QPSK	1	25	23.50	23.44	23.34	
10	QPSK	1	49	23.37	23.29	23.25	
10	QPSK	25	0	22.50	22.52	22.39	
10	QPSK	25	12	22.42	22.23	22.26	23.5
10	QPSK	25	25	22.27	22.12	22.12	
10	QPSK	50	0	22.18	22.19	21.98	
10	16QAM	1	0	22.63	22.51	22.56	
10	16QAM	1	25	22.45	22.37	22.47	23.5
10	16QAM	1	49	22.27	22.23	22.36	
10	16QAM	25	0	21.48	21.41	21.52	
10	16QAM	25	12	21.43	21.32	21.52	
10	16QAM	25	25	21.34	21.33	21.52	22.5
10	16QAM	50	0	21.15	21.21	21.37	
Channel				20425	20525	20625	24.5
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.51	23.53	23.45	24.5
5	QPSK	1	12	23.44	23.34	23.23	
5	QPSK	1	24	23.27	23.23	23.17	
5	QPSK	12	0	22.39	22.48	22.31	
5	QPSK	12	7	22.35	22.19	22.16	23.5
5	QPSK	12	13	22.22	22.03	22.07	
5	QPSK	25	0	22.10	22.14	21.94	
5	16QAM	1	0	22.52	22.41	22.49	
5	16QAM	1	12	22.34	22.26	22.37	23.5
5	16QAM	1	24	22.20	22.16	22.32	
5	16QAM	12	0	21.39	21.35	21.42	
5	16QAM	12	7	21.39	21.26	21.48	
5	16QAM	12	13	21.29	21.22	21.45	22.5
5	16QAM	25	0	21.05	21.17	21.33	
Channel				20415	20525	20635	24.5
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.48	23.57	23.51	24.5
3	QPSK	1	8	23.42	23.33	23.30	
3	QPSK	1	14	23.33	23.23	23.19	
3	QPSK	8	0	22.44	22.45	22.36	
3	QPSK	8	4	22.33	22.14	22.16	23.5
3	QPSK	8	7	22.23	22.03	22.07	
3	QPSK	15	0	22.10	22.12	21.90	
3	16QAM	1	0	22.59	22.42	22.52	
3	16QAM	1	8	22.38	22.30	22.44	23.5
3	16QAM	1	14	22.19	22.19	22.31	
3	16QAM	8	0	21.38	21.32	21.44	
3	16QAM	8	4	21.33	21.28	21.43	
3	16QAM	8	7	21.26	21.25	21.41	22.5
3	16QAM	15	0	21.07	21.15	21.31	
Channel				20407	20525	20643	24.5
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.41	23.49	23.44	24.5
1.4	QPSK	1	3	23.37	23.32	23.18	
1.4	QPSK	1	5	23.27	23.13	23.10	
1.4	QPSK	3	0	22.94	22.91	22.76	
1.4	QPSK	3	1	22.80	22.56	22.62	23.5
1.4	QPSK	3	3	22.69	22.52	22.58	
1.4	QPSK	6	0	22.07	22.09	21.81	
1.4	16QAM	1	0	22.47	22.42	22.37	
1.4	16QAM	1	3	22.29	22.25	22.31	23.5
1.4	16QAM	1	5	22.14	22.14	22.26	
1.4	16QAM	3	0	21.87	21.73	21.83	
1.4	16QAM	3	1	21.82	21.65	21.86	
1.4	16QAM	3	3	21.69	21.70	21.92	22.5
1.4	16QAM	6	0	20.99	21.06	21.23	

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	24.5
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.53	23.58	23.46	24.5
10	QPSK	1	25	23.43	23.50	23.31	
10	QPSK	1	49	23.23	23.31	23.23	
10	QPSK	25	0	22.43	22.47	22.36	
10	QPSK	25	12	22.26	22.35	22.16	23.5
10	QPSK	25	25	22.10	22.19	22.02	
10	QPSK	50	0	21.98	22.03	21.91	
10	16QAM	1	0	22.56	22.63	22.51	
10	16QAM	1	25	22.42	22.53	22.42	23.5
10	16QAM	1	49	22.23	22.34	22.26	
10	16QAM	25	0	21.41	21.50	21.39	
10	16QAM	25	12	21.27	21.34	21.29	
10	16QAM	25	25	21.28	21.42	21.33	22.5
10	16QAM	50	0	21.12	21.33	21.17	
Channel				23035	23095	23155	24.5
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.43	23.50	23.42	24.5
5	QPSK	1	12	23.40	23.44	23.20	
5	QPSK	1	24	23.19	23.23	23.19	
5	QPSK	12	0	22.38	22.43	22.26	
5	QPSK	12	7	22.15	22.27	22.07	23.5
5	QPSK	12	13	22.05	22.11	21.98	
5	QPSK	25	0	21.88	21.93	21.85	
5	16QAM	1	0	22.51	22.58	22.44	
5	16QAM	1	12	22.38	22.45	22.31	23.5
5	16QAM	1	24	22.19	22.28	22.23	
5	16QAM	12	0	21.33	21.44	21.35	
5	16QAM	12	7	21.23	21.29	21.23	
5	16QAM	12	13	21.22	21.33	21.24	22.5
5	16QAM	25	0	21.07	21.23	21.12	
Channel				23025	23095	23165	24.5
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.42	23.52	23.35	24.5
3	QPSK	1	8	23.38	23.41	23.21	
3	QPSK	1	14	23.19	23.23	23.13	
3	QPSK	8	0	22.32	22.37	22.32	
3	QPSK	8	4	22.21	22.30	22.07	23.5
3	QPSK	8	7	22.04	22.11	21.97	
3	QPSK	15	0	21.91	22.00	21.87	
3	16QAM	1	0	22.49	22.58	22.43	
3	16QAM	1	8	22.33	22.49	22.38	23.5
3	16QAM	1	14	22.12	22.27	22.20	
3	16QAM	8	0	21.34	21.41	21.35	
3	16QAM	8	4	21.21	21.27	21.22	
3	16QAM	8	7	21.22	21.32	21.23	22.5
3	16QAM	15	0	21.06	21.27	21.11	
Channel				23017	23095	23173	24.5
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.44	23.46	23.29	24.5
1.4	QPSK	1	3	23.29	23.38	23.18	
1.4	QPSK	1	5	23.10	23.19	23.12	
1.4	QPSK	3	0	22.78	22.85	22.73	
1.4	QPSK	3	1	22.63	22.67	22.55	23.5
1.4	QPSK	3	3	22.52	22.71	22.51	
1.4	QPSK	6	0	21.78	21.87	21.80	
1.4	16QAM	1	0	22.40	22.54	22.32	
1.4	16QAM	1	3	22.30	22.41	22.30	23.5
1.4	16QAM	1	5	22.11	22.21	22.10	
1.4	16QAM	3	0	21.75	21.84	21.78	
1.4	16QAM	3	1	21.66	21.70	21.72	
1.4	16QAM	3	3	21.64	21.80	21.69	22.5
1.4	16QAM	6	0	20.98	21.19	20.99	

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	23.38	23.51	23.47	
10	QPSK	1	25	23.30	23.40	23.27	24.5
10	QPSK	1	49	23.16	23.26	23.13	
10	QPSK	25	0	22.21	22.42	22.23	
10	QPSK	25	12	22.12	22.22	22.10	23.5
10	QPSK	25	25	21.96	22.13	21.98	
10	QPSK	50	0	21.82	21.99	21.86	
10	16QAM	1	0	22.45	22.48	22.46	23.5
10	16QAM	1	25	22.29	22.32	22.28	
10	16QAM	1	49	22.18	22.15	22.13	
10	16QAM	25	0	21.39	21.34	21.25	22.5
10	16QAM	25	12	21.21	21.19	21.12	
10	16QAM	25	25	21.28	21.22	21.22	
10	16QAM	50	0	21.12	21.09	21.10	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.29	23.45	23.37	
5	QPSK	1	12	23.25	23.32	23.23	24.5
5	QPSK	1	24	23.11	23.18	23.04	
5	QPSK	12	0	22.11	22.33	22.15	23.5
5	QPSK	12	7	22.08	22.12	22.00	
5	QPSK	12	13	21.89	22.02	21.90	
5	QPSK	25	0	21.71	21.89	21.79	23.5
5	16QAM	1	0	22.40	22.43	22.40	
5	16QAM	1	12	22.20	22.22	22.23	
5	16QAM	1	24	22.09	22.05	22.06	22.5
5	16QAM	12	0	21.30	21.25	21.14	
5	16QAM	12	7	21.17	21.15	21.07	
5	16QAM	12	13	21.18	21.13	21.18	
5	16QAM	25	0	21.01	21.00	21.03	

Band 25 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	21.17	21.19	21.11	
20	QPSK	1	49	20.96	20.99	20.95	21.5
20	QPSK	1	99	20.86	20.95	20.78	
20	QPSK	50	0	20.99	21.01	20.95	21.5
20	QPSK	50	24	20.89	20.78	20.77	
20	QPSK	50	50	20.72	20.77	20.73	
20	QPSK	100	0	20.88	20.81	20.78	21.5
20	16QAM	1	0	21.00	20.98	20.97	
20	16QAM	1	49	20.93	20.97	20.84	
20	16QAM	1	99	20.75	20.82	20.70	20.5
20	16QAM	50	0	19.63	19.99	19.87	
20	16QAM	50	24	19.70	19.86	19.73	
20	16QAM	50	50	19.62	19.74	19.67	20.5
20	16QAM	100	0	19.63	19.65	19.60	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	21.08	21.14	21.05	
15	QPSK	1	37	20.92	20.90	20.87	21.5
15	QPSK	1	74	20.81	20.91	20.75	
15	QPSK	36	0	20.93	20.94	20.86	21.5
15	QPSK	36	20	20.80	20.67	20.67	
15	QPSK	36	39	20.63	20.74	20.65	
15	QPSK	75	0	20.83	20.78	20.67	21.5
15	16QAM	1	0	20.95	20.91	20.87	
15	16QAM	1	37	20.87	20.86	20.78	
15	16QAM	1	74	20.70	20.72	20.60	20.5
15	16QAM	36	0	19.75	19.92	19.78	
15	16QAM	36	20	19.62	19.80	19.68	
15	16QAM	36	39	19.52	19.70	19.59	20.5
15	16QAM	75	0	19.59	19.56	19.52	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	21.12	21.16	21.04	
10	QPSK	1	25	20.88	20.89	20.84	21.5
10	QPSK	1	49	20.79	20.89	20.73	
10	QPSK	25	0	20.96	20.98	20.90	21.5
10	QPSK	25	12	20.78	20.70	20.67	
10	QPSK	25	25	20.63	20.69	20.63	
10	QPSK	50	0	20.83	20.71	20.68	21.5
10	16QAM	1	0	20.97	20.93	20.91	
10	16QAM	1	25	20.82	20.94	20.78	
10	16QAM	1	49	20.68	20.73	20.64	20.5
10	16QAM	25	0	19.78	19.94	19.83	
10	16QAM	25	12	19.66	19.79	19.66	
10	16QAM	25	25	19.56	19.63	19.63	20.5
10	16QAM	50	0	19.55	19.56	19.54	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	21.11	21.14	21.01	
5	QPSK	1	12	20.88	20.93	20.91	21.5
5	QPSK	1	24	20.79	20.86	20.73	
5	QPSK	12	0	20.89	20.94	20.90	21.5
5	QPSK	12	7	20.83	20.73	20.73	
5	QPSK	12	13	20.65	20.71	20.63	
5	QPSK	25	0	20.80	20.72	20.69	21.5
5	16QAM	1	0	20.96	20.93	20.93	
5	16QAM	1	12	20.86	20.91	20.77	
5	16QAM	1	24	20.68	20.76	20.66	20.5
5	16QAM	12	0	19.72	19.90	19.77	
5	16QAM	12	7	19.61	19.76	19.64	
5	16QAM	12	13	19.56	19.65	19.63	20.5
5	16QAM	25	0	19.57	19.55	19.52	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	21.00	21.10	21.02	
3	QPSK	1	8	20.82	20.87	20.82	21.5
3	QPSK	1	14	20.67	20.77	20.65	
3	QPSK	8	0	20.83	20.88	20.74	21.5
3	QPSK	8	4	20.79	20.67	20.66	
3	QPSK	8	7	20.54	20.69	20.56	
3	QPSK	15	0	20.75	20.62	20.60	21.5
3	16QAM	1	0	20.90	20.84	20.85	
3	16QAM	1	8	20.83	20.89	20.73	
3	16QAM	1	14	20.68	20.74	20.58	20.5
3	16QAM	8	0	19.74	19.89	19.69	
3	16QAM	8	4	19.52	19.72	19.59	
3	16QAM	8	7	19.52	19.64	19.47	20.5
3	16QAM	15	0	19.47	19.50	19.46	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	21.04	21.09	21.01	
1.4	QPSK	1	3	20.82	20.88	20.76	21.5
1.4	QPSK	1	5	20.68	20.78	20.67	
1.4	QPSK	3	0	20.81	20.85	20.77	21.5
1.4	QPSK	3	1	20.73	20.65	20.63	
1.4	QPSK	3	3	20.53	20.62	20.61	
1.4	QPSK	6	0	20.73	20.64	20.61	21.5
1.4	16QAM	1	0	20.91	20.89	20.84	
1.4	16QAM	1	3	20.81	20.87	20.72	
1.4	16QAM	1	5	20.67	20.72	20.56	19.5
1.4	16QAM	3	0	20.48	20.71	20.46	
1.4	16QAM	3	1	20.32	20.49	20.36	
1.4	16QAM	3	3	20.30	20.42	20.30	18.5
1.4	16QAM	6	0	19.54	19.49	19.48	

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	22.96	23.07	23.04	24
15	QPSK	1	37	22.78	22.98	22.91	
15	QPSK	1	74	22.63	22.78	22.81	
15	QPSK	36	0	21.74	21.98	21.97	
15	QPSK	36	20	21.64	21.77	21.87	23
15	QPSK	36	39	21.53	21.65	21.79	
15	QPSK	75	0	21.49	21.64	21.62	
15	16QAM	1	0	21.88	21.96	21.93	
15	16QAM	1	37	21.76	21.85	21.82	23
15	16QAM	1	74	21.57	21.75	21.67	
15	16QAM	36	0	20.76	20.92	20.83	
15	16QAM	36	20	20.59	20.73	20.74	
15	16QAM	36	39	20.53	20.65	20.69	22
15	16QAM	75	0	20.36	20.47	20.53	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.93	22.99	22.99	24
10	QPSK	1	25	22.68	22.92	22.84	
10	QPSK	1	49	22.54	22.68	22.75	
10	QPSK	25	0	21.64	21.88	21.89	
10	QPSK	25	12	21.55	21.68	21.80	23
10	QPSK	25	25	21.43	21.57	21.76	
10	QPSK	50	0	21.45	21.56	21.58	
10	16QAM	1	0	21.81	21.88	21.83	
10	16QAM	1	25	21.66	21.82	21.72	23
10	16QAM	1	49	21.48	21.70	21.64	
10	16QAM	25	0	20.68	20.87	20.76	
10	16QAM	25	12	20.51	20.68	20.69	
10	16QAM	25	25	20.50	20.60	20.65	22
10	16QAM	50	0	20.26	20.43	20.50	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.89	22.98	22.96	24
5	QPSK	1	12	22.74	22.87	22.87	
5	QPSK	1	24	22.56	22.74	22.76	
5	QPSK	12	0	21.66	21.89	21.89	
5	QPSK	12	7	21.53	21.71	21.79	23
5	QPSK	12	13	21.43	21.59	21.74	
5	QPSK	25	0	21.40	21.56	21.52	
5	16QAM	1	0	21.78	21.93	21.84	
5	16QAM	1	12	21.70	21.74	21.79	23
5	16QAM	1	24	21.50	21.67	21.62	
5	16QAM	12	0	20.72	20.88	20.74	
5	16QAM	12	7	20.50	20.69	20.70	
5	16QAM	12	13	20.44	20.60	20.66	22
5	16QAM	25	0	20.30	20.38	20.44	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.91	23.00	22.96	24
3	QPSK	1	8	22.68	22.89	22.86	
3	QPSK	1	14	22.53	22.71	22.73	
3	QPSK	8	0	21.68	21.88	21.87	
3	QPSK	8	4	21.58	21.72	21.77	23
3	QPSK	8	7	21.45	21.60	21.70	
3	QPSK	15	0	21.38	21.56	21.58	
3	16QAM	1	0	21.81	21.91	21.88	
3	16QAM	1	8	21.68	21.79	21.78	23
3	16QAM	1	14	21.46	21.69	21.57	
3	16QAM	8	0	20.72	20.83	20.72	
3	16QAM	8	4	20.49	20.66	20.66	
3	16QAM	8	7	20.44	20.61	20.58	22
3	16QAM	15	0	20.29	20.37	20.45	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.83	22.94	22.87	24
1.4	QPSK	1	3	22.66	22.87	22.75	
1.4	QPSK	1	5	22.49	22.69	22.64	
1.4	QPSK	3	0	22.09	22.38	22.28	
1.4	QPSK	3	1	22.03	22.07	22.20	23
1.4	QPSK	3	3	22.02	22.09	22.17	
1.4	QPSK	6	0	21.37	21.51	21.49	
1.4	16QAM	1	0	21.76	21.82	21.81	
1.4	16QAM	1	3	21.65	21.69	21.68	23
1.4	16QAM	1	5	21.43	21.61	21.49	
1.4	16QAM	3	0	21.10	21.30	21.15	
1.4	16QAM	3	1	21.01	21.03	21.12	
1.4	16QAM	3	3	21.06	21.07	21.07	22
1.4	16QAM	6	0	20.28	20.35	20.37	

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.61	23.67	23.60	24.5
20	QPSK	1	49	23.44	23.50	23.45	
20	QPSK	1	99	23.28	23.34	23.27	
20	QPSK	50	0	22.49	22.52	22.47	
20	QPSK	50	24	22.38	22.29	22.36	23.5
20	QPSK	50	50	22.26	22.12	22.24	
20	QPSK	100	0	22.32	22.35	22.26	
20	16QAM	1	0	22.42	22.39	22.43	
20	16QAM	1	49	22.32	22.28	22.34	23.5
20	16QAM	1	99	22.18	22.12	22.25	
20	16QAM	50	0	21.37	21.27	21.46	
20	16QAM	50	24	21.19	21.17	21.38	
20	16QAM	50	50	21.08	20.99	21.29	22.5
20	16QAM	100	0	20.88	20.89	21.18	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.57	23.60	23.51	24.5
15	QPSK	1	37	23.39	23.42	23.35	
15	QPSK	1	74	23.22	23.29	23.23	
15	QPSK	36	0	22.43	22.48	22.43	
15	QPSK	36	20	22.28	22.18	22.29	23.5
15	QPSK	36	39	22.22	22.06	22.19	
15	QPSK	75	0	22.02	22.11	22.01	
15	16QAM	1	0	22.32	22.29	22.38	
15	16QAM	1	37	22.26	22.22	22.31	23.5
15	16QAM	1	74	22.07	22.07	22.15	
15	16QAM	36	0	21.30	21.21	21.38	
15	16QAM	36	20	21.13	21.09	21.33	
15	16QAM	36	39	21.03	20.93	21.19	22.5
15	16QAM	75	0	20.79	20.85	21.13	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.55	23.60	23.50	24.5
10	QPSK	1	25	23.37	23.44	23.41	
10	QPSK	1	49	23.20	23.26	23.21	
10	QPSK	25	0	22.42	22.44	22.37	
10	QPSK	25	12	22.27	22.21	22.25	23.5
10	QPSK	25	25	22.22	22.07	22.21	
10	QPSK	50	0	22.09	22.09	22.00	
10	16QAM	1	0	22.31	22.32	22.37	
10	16QAM	1	25	22.25	22.18	22.24	23.5
10	16QAM	1	49	22.07	22.02	22.16	
10	16QAM	25	0	21.28	21.21	21.42	
10	16QAM	25	12	21.10	21.10	21.33	
10	16QAM	25	25	21.01	20.95	21.24	22.5
10	16QAM	50	0	20.85	20.84	21.12	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.57	23.58	23.49	24.5
5	QPSK	1	12	23.33	23.43	23.40	
5	QPSK	1	24	23.23	23.24	23.18	
5	QPSK	12	0	22.39	22.45	22.44	
5	QPSK	12	7	22.31	22.22	22.28	23.5
5	QPSK	12	13	22.18	22.02	22.16	
5	QPSK	25	0	22.02	22.07	21.99	
5	16QAM	1	0	22.31	22.33	22.34	
5	16QAM	1	12	22.22	22.24	22.25	23.5
5	16QAM	1	24	22.08	22.04	22.16	
5	16QAM	12	0	21.27	21.23	21.40	
5	16QAM	12	7	21.14	21.08	21.32	
5	16QAM	12	13	21.05	20.92	21.24	22.5
5	16QAM	25	0	20.80	20.85	21.08	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.47	23.50	23.47	24.5
3	QPSK	1	8	23.33	23.35	23.28	
3	QPSK	1	14	23.13	23.26	23.18	
3	QPSK	8	0	22.37	22.38	22.30	
3	QPSK	8	4	22.23	22.15	22.22	23.5
3	QPSK	8	7	22.07	21.99	22.11	
3	QPSK	15	0	22.00	22.03	21.94	
3	16QAM	1	0	22.24	22.19	22.31	
3	16QAM	1	8	22.12	22.14	22.23	23.5
3	16QAM	1	14	22.04	21.93	22.10	
3	16QAM	8	0	21.23	21.14	21.31	
3	16QAM	8	4	21.09	21.03	21.21	
3	16QAM	8	7	20.99	20.83	21.17	22.5
3	16QAM	15	0	20.72	20.76	21.02	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.48	23.54	23.50	24.5
1.4	QPSK	1	3	23.29	23.39	23.31	
1.4	QPSK	1	5	23.15	23.27	23.21	
1.4	QPSK	3	0	22.83	22.84	22.79	
1.4	QPSK	3	1	22.75	22.63	22.69	23.5
1.4	QPSK	3	3	22.61	22.68	22.64	
1.4	QPSK	6	0	22.03	22.01	21.96	
1.4	16QAM	1	0	22.26	22.25	22.35	
1.4	16QAM	1	3	22.18	22.16	22.20	23.5
1.4	16QAM	1	5	22.02	21.92	22.13	
1.4	16QAM	3	0	21.65	21.70	21.86	
1.4	16QAM	3	1	21.57	21.50	21.69	
1.4	16QAM	3	3	21.63	21.55	21.65	22.5
1.4	16QAM	6	0	20.76	20.72	21.06	

Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	23.53	23.58	23.48	24.5
20	QPSK	1	49	23.34	23.42	23.35	
20	QPSK	1	99	23.15	23.25	23.21	
20	QPSK	50	0	22.30	22.44	22.43	
20	QPSK	50	24	22.11	22.32	22.32	23.5
20	QPSK	50	50	21.98	22.12	22.20	
20	QPSK	100	0	21.86	22.11	22.08	
20	16QAM	1	0	22.25	22.39	22.35	
20	16QAM	1	49	22.10	22.20	22.18	23.5
20	16QAM	1	99	21.97	22.07	22.00	
20	16QAM	50	0	21.18	21.21	21.17	
20	16QAM	50	24	21.07	21.07	21.03	
20	16QAM	50	50	20.97	20.93	20.88	22.5
20	16QAM	100	0	20.94	20.85	20.90	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.48	23.52	23.43	
15	QPSK	1	37	23.25	23.33	23.27	24.5
15	QPSK	1	74	23.09	23.20	23.11	
15	QPSK	36	0	22.20	22.36	22.40	
15	QPSK	36	20	22.05	22.27	22.24	
15	QPSK	36	39	21.92	22.06	22.10	23.5
15	QPSK	75	0	21.81	22.05	22.00	
15	16QAM	1	0	22.18	22.32	22.29	
15	16QAM	1	37	22.00	22.12	22.10	
15	16QAM	1	74	21.89	21.97	21.92	22.5
15	16QAM	36	0	21.09	21.12	21.11	
15	16QAM	36	20	21.03	21.00	20.93	
15	16QAM	36	39	20.93	20.85	20.79	
15	16QAM	75	0	20.86	20.77	20.87	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	
10	QPSK	1	0	23.49	23.54	23.43	
10	QPSK	1	25	23.28	23.36	23.31	24.5
10	QPSK	1	49	23.05	23.19	23.14	
10	QPSK	25	0	22.21	22.35	22.40	
10	QPSK	25	12	22.06	22.23	22.26	
10	QPSK	25	25	21.91	22.06	22.16	23.5
10	QPSK	50	0	21.77	22.00	22.03	
10	16QAM	1	0	22.19	22.32	22.26	
10	16QAM	1	25	22.03	22.13	22.08	
10	16QAM	1	49	21.92	22.01	21.96	22.5
10	16QAM	25	0	21.10	21.12	21.08	
10	16QAM	25	12	20.96	21.01	20.97	
10	16QAM	25	25	20.90	20.88	20.82	
10	16QAM	50	0	20.86	20.77	20.85	
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	23.49	23.48	23.42	
5	QPSK	1	12	23.25	23.32	23.31	24.5
5	QPSK	1	24	23.11	23.16	23.12	
5	QPSK	12	0	22.22	22.33	22.33	
5	QPSK	12	7	22.03	22.21	22.22	
5	QPSK	12	13	21.94	22.06	22.10	23.5
5	QPSK	25	0	21.79	22.05	22.03	
5	16QAM	1	0	22.20	22.29	22.26	
5	16QAM	1	12	22.06	22.13	22.10	
5	16QAM	1	24	21.87	21.98	21.91	22.5
5	16QAM	12	0	21.11	21.18	21.12	
5	16QAM	12	7	21.02	21.03	20.93	
5	16QAM	12	13	20.92	20.87	20.85	
5	16QAM	25	0	20.89	20.80	20.81	

Band 41 (2496~2690MHz) (dBm)_HPUE										
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	23.98	23.88	24.13	23.96	24.02	24.5	
20	QPSK	1	49	23.89	23.81	24.03	23.91	23.80		
20	QPSK	1	99	23.74	23.65	23.90	23.77	23.66		
20	QPSK	50	0	22.96	22.89	23.14	22.85	22.90		
20	QPSK	50	24	22.82	22.80	22.96	22.74	22.81	23.5	
20	QPSK	50	50	22.68	22.66	22.78	22.60	22.66		
20	QPSK	100	0	22.55	22.54	22.68	22.43	22.52		
20	16QAM	1	0	23.01	22.97	23.27	23.04	22.98		
20	16QAM	1	49	22.84	22.87	23.14	22.85	22.80	23.5	
20	16QAM	1	99	22.72	22.77	23.03	22.76	22.66		
20	16QAM	50	0	21.91	21.94	22.20	21.89	21.77		
20	16QAM	50	24	21.78	21.74	22.02	21.81	21.64		
20	16QAM	50	50	21.68	21.64	21.89	21.68	21.45	22.5	
20	16QAM	100	0	21.55	21.52	21.76	21.57	21.27		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.90	23.79	24.00	23.93	23.83	24.5	
15	QPSK	1	37	23.85	23.74	23.98	23.83	23.72		
15	QPSK	1	74	23.66	23.61	23.83	23.67	23.56		
15	QPSK	36	0	22.86	22.79	23.04	22.88	22.85		
15	QPSK	36	20	22.74	22.73	22.91	22.73	22.71	23.5	
15	QPSK	36	39	22.58	22.61	22.71	22.61	22.56		
15	QPSK	75	0	22.51	22.43	22.60	22.46	22.46		
15	16QAM	1	0	22.94	22.88	23.20	22.92	22.91		
15	16QAM	1	37	22.73	22.77	23.06	22.75	22.82	23.5	
15	16QAM	1	74	22.65	22.73	22.99	22.65	22.73		
15	16QAM	36	0	21.80	21.90	22.11	21.86	21.83		
15	16QAM	36	20	21.68	21.69	21.93	21.70	21.67		
15	16QAM	36	39	21.64	21.55	21.80	21.61	21.61	22.5	
15	16QAM	75	0	21.51	21.49	21.66	21.45	21.43		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.94	23.81	24.04	23.88	23.79	24.5	
10	QPSK	1	25	23.83	23.76	23.95	23.85	23.77		
10	QPSK	1	49	23.64	23.55	23.82	23.68	23.57		
10	QPSK	25	0	22.91	22.81	23.08	22.87	22.80		
10	QPSK	25	12	22.79	22.71	22.86	22.74	22.76	23.5	
10	QPSK	25	25	22.59	22.57	22.69	22.59	22.58		
10	QPSK	50	0	22.52	22.51	22.63	22.48	22.51		
10	16QAM	1	0	22.98	22.92	23.16	22.94	22.88		
10	16QAM	1	25	22.78	22.83	23.10	22.77	22.83	23.5	
10	16QAM	1	49	22.68	22.73	22.99	22.68	22.71		
10	16QAM	25	0	21.85	21.88	22.10	21.83	21.86		
10	16QAM	25	12	21.73	21.68	21.92	21.75	21.70		
10	16QAM	25	25	21.59	21.54	21.80	21.62	21.56	22.5	
10	16QAM	50	0	21.46	21.46	21.68	21.46	21.45		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	
Frequency (MHz)				2498.5	2545.5	2593	2643.5	2697.5		
5	QPSK	1	0	23.90	23.71	23.94	23.73	23.68	24.5	
5	QPSK	1	12	23.73	23.69	23.85	23.67	23.61		
5	QPSK	1	24	23.60	23.46	23.78	23.55	23.44		
5	QPSK	12	0	22.87	22.76	22.98	22.75	22.68		
5	QPSK	12	7	22.70	22.60	22.79	22.67	22.60	23.5	
5	QPSK	12	13	22.50	22.49	22.65	22.43	22.43		
5	QPSK	25	0	22.41	22.41	22.56	22.39	22.37		
5	16QAM	1	0	22.89	22.85	23.06	22.80	22.77		
5	16QAM	1	12	22.69	22.80	23.06	22.63	22.73	23.5	
5	16QAM	1	24	22.59	22.69	22.95	22.56	22.54		
5	16QAM	12	0	21.74	21.78	22.02	21.68	21.80		
5	16QAM	12	7	21.63	21.59	21.86	21.55	21.47		
5	16QAM	12	13	21.52	21.44	21.73	21.48	21.39	22.5	
5	16QAM	25	0	21.40	21.36	21.63	21.28	21.35		

Band 41 (2496~2690MHz) (dBm)_P3										
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	20.24	20.39	20.43	20.21	20.36	21	
20	QPSK	1	49	20.09	20.23	20.30	20.09	20.17		
20	QPSK	1	99	19.99	20.13	20.15	19.93	20.02		
20	QPSK	50	0	19.29	19.53	19.54	19.31	19.51		
20	QPSK	50	24	19.16	19.43	19.31	19.13	19.42	20	
20	QPSK	50	50	19.05	19.30	19.20	19.11	19.29		
20	QPSK	100	0	18.74	18.99	19.01	18.81	18.84		
20	16QAM	1	0	19.25	19.55	19.61	19.36	19.51		
20	16QAM	1	49	19.16	19.40	19.53	19.27	19.43	20	
20	16QAM	1	99	18.96	19.27	19.34	19.09	19.33		
20	16QAM	50	0	18.25	18.56	18.62	18.32	18.54		
20	16QAM	50	24	18.10	18.47	18.52	18.19	18.37		
20	16QAM	50	50	17.96	18.34	18.32	18.08	18.26	19	
20	16QAM	100	0	17.77	18.24	18.18	17.99	18.16		
Channel				39725	40173	40620	41068	41515		Tune-up limit (dbm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.19	20.35	20.36	20.18	20.24	21	
15	QPSK	1	37	20.04	20.14	20.23	20.00	20.16		
15	QPSK	1	74	19.91	20.08	20.06	19.89	20.08		
15	QPSK	36	0	19.09	19.35	19.33	19.11	19.31		
15	QPSK	36	20	18.96	19.23	19.11	18.93	19.22	20	
15	QPSK	36	39	18.85	19.10	19.00	18.91	19.09		
15	QPSK	75	0	18.71	18.93	18.82	18.64	18.93		
15	16QAM	1	0	19.18	19.47	19.54	19.20	19.47		
15	16QAM	1	37	19.13	19.36	19.45	19.12	19.34	20	
15	16QAM	1	74	18.91	19.17	19.24	18.86	19.24		
15	16QAM	36	0	18.15	18.49	18.54	18.18	18.48		
15	16QAM	36	20	18.02	18.36	18.45	18.07	18.43		
15	16QAM	36	39	17.85	18.30	18.26	17.86	18.26	19	
15	16QAM	75	0	17.72	18.14	18.12	17.73	18.14		
Channel				39700	40160	40620	41080	41540		Tune-up limit (dbm)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.12	20.24	20.30	20.12	20.24	21	
10	QPSK	1	25	19.98	20.09	20.19	19.94	20.03		
10	QPSK	1	49	19.83	20.00	20.00	19.81	20.00		
10	QPSK	25	0	19.02	19.24	19.23	19.00	19.29		
10	QPSK	25	12	18.88	19.12	19.03	18.91	19.17	20	
10	QPSK	25	25	18.76	19.04	18.91	18.81	19.03		
10	QPSK	50	0	18.66	18.82	18.76	18.64	18.88		
10	16QAM	1	0	19.13	19.39	19.47	19.12	19.36		
10	16QAM	1	25	19.03	19.31	19.41	19.10	19.27	20	
10	16QAM	1	49	18.80	19.08	19.14	18.86	19.13		
10	16QAM	25	0	18.04	18.38	18.50	18.09	18.43		
10	16QAM	25	12	17.95	18.32	18.37	17.96	18.31		
10	16QAM	25	25	17.74	18.23	18.21	17.76	18.21	19	
10	16QAM	50	0	17.61	18.10	18.02	17.61	18.08		
Channel				39675	40148	40620	41093	41565		Tune-up limit (dbm)
Frequency (MHz)				2498.5	2545.5	2593	2643.5	2697.5		
5	QPSK	1	0	20.05	20.18	20.27	20.04	20.21	21	
5	QPSK	1	12	19.92	20.02	20.15	19.91	20.00		
5	QPSK	1	24	19.80	19.96	19.93	19.73	19.95		
5	QPSK	12	0	18.94	19.17	19.14	18.92	19.18		
5	QPSK	12	7	18.80	19.07	18.94	18.79	19.02	20	
5	QPSK	12	13	18.68	18.95	18.87	18.70	18.96		
5	QPSK	25	0	18.60	18.78	18.67	18.60	18.74		
5	16QAM	1	0	19.04	19.34	19.37	19.05	19.33		
5	16QAM	1	12	18.93	19.25	19.32	19.00	19.23	20	
5	16QAM	1	24	18.72	19.01	19.03	18.76	19.02		
5	16QAM	12	0	17.94	18.28	18.42	18.00	18.34		
5	16QAM	12	7	17.87	18.25	18.31	17.90	18.25		
5	16QAM	12	13	17.70	18.14	18.15	17.66	18.18	19	
5	16QAM	25	0	17.52	18.00	17.95	17.53	18.00		

2.4GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1	802.11b 1Mbps	CH 1	2412	16.42	17.00	14.00
		CH 7	2442	10.35	10.50	14.00
		CH 13	2472	13.03	13.50	14.00
	802.11g 6Mbps	CH 1	2412	16.65	17.00	10.00
		CH 7	2442	16.03	16.50	10.00
		CH 13	2472	8.93	9.50	10.00
	802.11n-HT20 MCS0	CH 1	2412	16.53	17.00	9.00
		CH 7	2442	15.86	16.50	9.00
		CH 13	2472	7.85	8.50	9.00
	802.11n-HT40 MCS0	CH 3	2422	13.76	14.00	15.00
		CH 6	2442	15.17	15.50	15.00
		CH 9	2462	7.02	7.50	15.00

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	13.87	14.50	15.00
		CH 44	5220	14.90	15.50	15.00
		CH 48	5240	14.64	15.00	15.00
	802.11n-HT20 MCS0	CH 36	5180	14.86	15.50	Default
		CH 44	5220	14.61	15.00	Default
		CH 48	5240	14.40	15.00	Default
	802.11n-HT40 MCS0	CH 36	5190	12.70	13.00	Default
		CH 46	5230	14.38	15.00	Default
		CH 36	5180	14.69	15.00	Default
	802.11ac-VHT20 MCS0	CH 44	5220	14.59	15.00	Default
		CH 48	5240	14.39	15.00	Default
		CH 36	5190	14.56	15.00	Default
	802.11ac-VHT40 MCS0	CH 46	5230	14.35	15.00	Default
		CH 42	5210	10.79	11.00	Default
		CH 42	5210	10.79	11.00	Default

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5260	14.69	15.00	15.00
		CH 60	5300	14.36	15.00	15.00
		CH 64	5320	12.95	13.50	15.00
	802.11n-HT20 MCS0	CH 52	5260	14.32	15.00	Default
		CH 60	5300	14.14	14.50	Default
		CH 64	5320	13.69	14.00	Default
	802.11n-HT40 MCS0	CH 54	5270	14.00	14.50	Default
		CH 62	5310	11.48	12.00	Default
		CH 52	5260	14.33	14.50	Default
	802.11ac-VHT20 MCS0	CH 60	5300	14.07	14.50	Default
		CH 64	5320	13.69	14.00	Default
		CH 54	5270	14.20	14.50	Default
	802.11ac-VHT40 MCS0	CH 62	5310	13.81	14.00	Default
		CH 58	5290	8.36	9.00	Default
		CH 58	5290	8.36	9.00	Default

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	14.52	15.00	15.00
		CH 116	5580	14.47	15.00	15.00
		CH 120	5600	14.71	15.00	15.00
		CH 144	5720	13.57	14.00	Default
		CH 100	5500	14.36	15.00	Default
	802.11n-HT20 MCS0	CH 116	5580	14.43	15.00	Default
		CH 120	5600	14.51	15.00	Default
		CH 144	5720	14.11	14.50	Default
		CH 102	5510	10.55	11.00	12.00
	802.11n-HT40 MCS0	CH 110	5550	14.22	14.50	12.00
		CH 126	5630	14.73	15.00	12.00
		CH 142	5710	13.47	14.00	12.00
		CH 100	5500	14.23	14.50	Default
	802.11ac-VHT20 MCS0	CH 116	5580	14.43	15.00	Default
		CH 120	5600	14.58	15.00	Default
		CH 144	5720	14.30	14.50	Default
		CH 102	5510	14.29	14.50	Default
	802.11ac-VHT40 MCS0	CH 110	5550	14.38	15.00	Default
		CH 126	5630	14.70	15.00	Default
		CH 142	5710	14.28	14.50	Default
		CH 106	5530	10.41	11.00	Default
	802.11ac-VHT80 MCS0	CH 122	5610	14.65	15.00	Default
		CH 138	5690	14.12	14.50	Default

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	14.11	14.50	15.00
		CH 157	5785	13.64	14.00	15.00
		CH 165	5825	13.37	13.50	15.00
	802.11n-HT20 MCS0	CH 149	5745	13.84	14.50	Default
		CH 157	5785	13.61	14.00	Default
		CH 165	5825	13.25	13.50	Default
	802.11n-HT40 MCS0	CH 151	5755	13.77	14.00	Default
		CH 159	5795	13.33	13.50	Default
		CH 149	5745	13.83	14.00	Default
	802.11ac-VHT20 MCS0	CH 157	5785	13.64	14.00	Default
		CH 165	5825	13.20	13.50	Default
		CH 151	5755	13.97	14.50	Default
	802.11ac-VHT40 MCS0	CH 159	5795	13.30	14.00	Default
		CH 155	5775	13.62	14.00	Default

Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.20	7.50	5.20
		CH 39	2441	5.41	6.00
		CH 76	2480	9.23	9.50
	Duty Cycle %		76.91	77.13	77.13

Mode	Channel	Frequency (MHz)	1Mbps	2Mbps
LE	CH 00	2402	-8.29	-5.00
		CH 19	-7.18	-6.00
		CH 39	-4.04	-3.00
	Duty Cycle %		61.29	32.26

Reduced Power

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	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot		24.69	24.72	24.61	25.50	15.69	15.72	15.61	16.50
GPRS 1 Tx slot		24.60	24.68	24.55	25.50	15.60	15.68	15.55	16.50
GPRS 2 Tx slots		22.89	22.77	22.83	23.50	16.89	16.77	16.83	17.50
GPRS 3 Tx slots		20.81	20.74	20.70	21.50	16.55	16.48	16.44	17.24
GPRS 4 Tx slots		19.93	19.98	19.97	20.50	16.93	16.98	16.97	17.50
Mode			Max.	30.47			Max.	23.62	

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1860	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	17.31	17.41	17.27	18.50	17.13	17.23	17.16	18.00
3GPP Rel 5	HSDPA Subtest-1	16.81	17.12	16.79	18.00	16.65	16.63	16.66	17.50
3GPP Rel 5	HSDPA Subtest-2	16.53	17.15	16.57	18.00	16.24	16.21	16.21	17.00
3GPP Rel 5	HSDPA Subtest-3	16.18	16.32	15.98	17.00	16.90	17.01	17.13	18.00
3GPP Rel 5	HSDPA Subtest-4	16.04	17.13	16.85	18.00	16.61	16.58	16.68	17.50
3GPP Rel 6	HSDPA Subtest-1	16.57	16.99	16.68	17.50	15.22	15.19	15.20	16.00
3GPP Rel 6	HSDPA Subtest-2	15.17	15.73	15.35	16.50	16.60	16.66	16.49	17.50
3GPP Rel 6	HSDPA Subtest-3	16.54	16.96	16.47	17.50	16.11	16.15	16.24	17.00
3GPP Rel 6	HSDPA Subtest-4	16.08	16.32	16.06	17.00	17.04	16.97	16.80	18.00
3GPP Rel 6	HSDPA Subtest-5	16.84	17.15	16.97	18.00	15.20	15.13	15.03	16.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.07	15.50	15.40	16.50	15.53	15.62	15.71	16.50
Attenuator			Cable Loss				Cable Loss		
Mode			Max.	17.41			Max.	17.23	

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	18.41	18.57	18.47	19.5
20	QPSK	1	49	18.28	18.39	18.30	
20	QPSK	1	99	18.18	18.21	18.13	
20	QPSK	50	0	17.38	17.40	17.35	
20	QPSK	50	24	17.19	17.29	17.27	18.5
20	QPSK	50	50	17.25	17.33	17.30	
20	QPSK	100	0	17.31	17.36	17.28	
20	16QAM	1	0	17.51	17.55	17.46	
20	16QAM	1	49	17.39	17.42	17.27	18.5
20	16QAM	1	99	17.24	17.24	17.19	
20	16QAM	50	0	16.44	16.65	16.38	
20	16QAM	50	24	16.53	16.48	16.49	
20	16QAM	50	50	16.38	16.29	16.32	17.5
20	16QAM	100	0	16.28	16.20	16.23	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.34	18.50	18.37	19.5
15	QPSK	1	37	18.21	18.31	18.20	
15	QPSK	1	74	18.08	18.18	18.04	
15	QPSK	36	0	17.35	17.34	17.31	
15	QPSK	36	20	17.14	17.18	17.18	18.5
15	QPSK	36	39	17.21	17.25	17.22	
15	QPSK	75	0	17.27	17.30	17.19	
15	16QAM	1	0	17.46	17.52	17.36	
15	16QAM	1	37	17.28	17.35	17.18	18.5
15	16QAM	1	74	17.15	17.17	17.15	
15	16QAM	36	0	16.35	16.55	16.34	
15	16QAM	36	20	16.49	16.43	16.43	
15	16QAM	36	39	16.31	16.25	16.24	17.5
15	16QAM	75	0	16.20	16.17	16.13	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.35	18.52	18.43	19.5
10	QPSK	1	25	18.21	18.28	18.21	
10	QPSK	1	49	18.10	18.14	18.09	
10	QPSK	25	0	17.34	17.33	17.30	
10	QPSK	25	12	17.13	17.21	17.21	18.5
10	QPSK	25	25	17.21	17.25	17.28	
10	QPSK	50	0	17.26	17.25	17.22	
10	16QAM	1	0	17.43	17.50	17.41	
10	16QAM	1	25	17.35	17.37	17.20	18.5
10	16QAM	1	49	17.18	17.20	17.10	
10	16QAM	25	0	16.36	16.59	16.30	
10	16QAM	25	12	16.47	16.38	16.45	
10	16QAM	25	25	16.34	16.24	16.27	17.5
10	16QAM	50	0	16.18	16.12	16.20	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.34	18.48	18.41	19.5
5	QPSK	1	12	18.20	18.30	18.22	
5	QPSK	1	24	18.15	18.11	18.03	
5	QPSK	12	0	17.30	17.29	17.30	
5	QPSK	12	7	17.12	17.18	17.21	18.5
5	QPSK	12	13	17.16	17.24	17.22	
5	QPSK	25	0	17.24	17.26	17.21	
5	16QAM	1	0	17.46	17.48	17.41	
5	16QAM	1	12	17.32	17.36	17.23	18.5
5	16QAM	1	24	17.20	17.21	17.09	
5	16QAM	12	0	16.40	16.59	16.34	
5	16QAM	12	7	16.43	16.39	16.45	
5	16QAM	12	13	16.33	16.26	16.28	17.5
5	16QAM	25	0	16.18	16.13	16.17	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.24	18.43	18.33	19.5
3	QPSK	1	8	18.11	18.26	18.16	
3	QPSK	1	14	18.07	18.01	17.99	
3	QPSK	8	0	17.23	17.19	17.25	
3	QPSK	8	4	17.08	17.11	17.10	18.5
3	QPSK	8	7	17.11	17.16	17.13	
3	QPSK	15	0	17.21	17.17	17.10	
3	16QAM	1	0	17.38	17.40	17.33	
3	16QAM	1	8	17.21	17.26	17.20	18.5
3	16QAM	1	14	17.14	17.10	17.03	
3	16QAM	8	0	16.30	16.54	16.25	
3	16QAM	8	4	16.34	16.35	16.40	
3	16QAM	8	7	16.30	16.21	16.21	17.5
3	16QAM	15	0	16.09	16.02	16.14	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.25	18.41	18.33	19.5
1.4	QPSK	1	3	18.11	18.27	18.16	
1.4	QPSK	1	5	18.06	18.06	17.93	
1.4	QPSK	3	0	17.75	17.72	17.72	
1.4	QPSK	3	1	17.51	17.65	17.65	18.5
1.4	QPSK	3	3	17.62	17.64	17.66	
1.4	QPSK	6	0	17.18	17.20	17.17	
1.4	16QAM	1	0	17.42	17.39	17.36	
1.4	16QAM	1	3	17.21	17.26	17.13	18.5
1.4	16QAM	1	5	17.13	17.14	16.99	
1.4	16QAM	3	0	16.82	17.05	16.78	
1.4	16QAM	3	1	16.86	16.79	16.85	
1.4	16QAM	3	3	16.76	16.67	16.73	17.5
1.4	16QAM	6	0	16.08	16.04	16.07	

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	19
20	QPSK	1	0	17.76	17.81	17.72	
20	QPSK	1	49	17.59	17.63	17.56	
20	QPSK	1	99	17.42	17.43	17.42	
20	QPSK	50	0	17.49	17.51	17.36	
20	QPSK	50	24	17.42	17.49	17.38	19
20	QPSK	50	50	17.23	17.30	17.19	
20	QPSK	100	0	17.40	17.42	17.41	
20	16QAM	1	0	17.59	17.63	17.50	
20	16QAM	1	49	17.41	17.58	17.40	
20	16QAM	1	99	17.24	17.33	17.25	19
20	16QAM	50	0	16.61	16.65	16.57	
20	16QAM	50	24	16.59	16.54	16.58	
20	16QAM	50	50	16.41	16.40	16.42	
20	16QAM	100	0	16.27	16.26	16.34	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.70	17.78	17.65	19
15	QPSK	1	37	17.50	17.58	17.51	
15	QPSK	1	74	17.38	17.38	17.37	
15	QPSK	36	0	17.42	17.43	17.33	
15	QPSK	36	20	17.34	17.44	17.32	
15	QPSK	36	39	17.14	17.24	17.09	19
15	QPSK	75	0	17.48	17.44	17.33	
15	16QAM	1	0	17.52	17.55	17.44	
15	16QAM	1	37	17.34	17.48	17.34	
15	16QAM	1	74	17.18	17.23	17.21	
15	16QAM	36	0	16.53	16.62	16.48	18
15	16QAM	36	20	16.53	16.45	16.52	
15	16QAM	36	39	16.35	16.31	16.37	
15	16QAM	75	0	16.17	16.17	16.24	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.70	17.74	17.65	19
10	QPSK	1	25	17.50	17.58	17.45	
10	QPSK	1	49	17.38	17.34	17.33	
10	QPSK	25	0	17.40	17.46	17.32	
10	QPSK	25	12	17.38	17.41	17.33	
10	QPSK	25	25	17.13	17.24	17.15	19
10	QPSK	50	0	17.42	17.46	17.38	
10	16QAM	1	0	17.48	17.58	17.44	
10	16QAM	1	25	17.38	17.54	17.33	
10	16QAM	1	49	17.15	17.28	17.18	
10	16QAM	25	0	16.58	16.61	16.52	18
10	16QAM	25	12	16.52	16.43	16.50	
10	16QAM	25	25	16.35	16.35	16.34	
10	16QAM	50	0	16.20	16.15	16.24	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.67	17.76	17.66	19
5	QPSK	1	12	17.56	17.53	17.46	
5	QPSK	1	24	17.33	17.40	17.34	
5	QPSK	12	0	17.39	17.46	17.26	
5	QPSK	12	7	17.31	17.41	17.35	
5	QPSK	12	13	17.14	17.22	17.13	19
5	QPSK	25	0	17.44	17.48	17.35	
5	16QAM	1	0	17.49	17.53	17.39	
5	16QAM	1	12	17.33	17.53	17.32	
5	16QAM	1	24	17.14	17.26	17.21	
5	16QAM	12	0	16.58	16.61	16.51	18
5	16QAM	12	7	16.49	16.50	16.53	
5	16QAM	12	13	16.38	16.30	16.36	
5	16QAM	25	0	16.21	16.21	16.26	
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	17.58	17.65	17.60	19
3	QPSK	1	8	17.52	17.50	17.40	
3	QPSK	1	14	17.28	17.31	17.27	
3	QPSK	8	0	17.30	17.35	17.16	
3	QPSK	8	4	17.23	17.36	17.26	
3	QPSK	8	7	17.08	17.17	17.07	19
3	QPSK	15	0	17.33	17.39	17.28	
3	16QAM	1	0	17.41	17.45	17.33	
3	16QAM	1	8	17.26	17.44	17.26	
3	16QAM	1	14	17.06	17.21	17.17	
3	16QAM	8	0	16.48	16.52	16.43	18
3	16QAM	8	4	16.40	16.45	16.44	
3	16QAM	8	7	16.35	16.20	16.31	
3	16QAM	15	0	16.14	16.11	16.16	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.57	17.72	17.62	19
1.4	QPSK	1	3	17.48	17.42	17.42	
1.4	QPSK	1	5	17.29	17.33	17.26	
1.4	QPSK	3	0	17.34	17.41	17.20	
1.4	QPSK	3	1	17.28	17.31	17.28	
1.4	QPSK	3	3	17.06	17.13	17.08	19
1.4	QPSK	6	0	17.34	17.43	17.30	
1.4	16QAM	1	0	17.44	17.42	17.29	
1.4	16QAM	1	3	17.29	17.49	17.25	
1.4	16QAM	1	5	17.07	17.17	17.17	
1.4	16QAM	3	0	17.24	17.23	17.12	19
1.4	16QAM	3	1	17.09	17.13	17.15	
1.4	16QAM	3	3	17.01	17.09	17.16	
1.4	16QAM	6	0	16.17	16.17	16.16	
1.4	16QAM	6	0	16.17	16.37	16.16	

Band 25 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	18
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	17.09	17.12	17.03	18
20	QPSK	1	49	16.88	16.91	16.87	
20	QPSK	1	99	16.78	16.87	16.70	18
20	QPSK	50	0	16.91	16.93	16.87	
20	QPSK	50	24	16.81	16.70	16.69	18
20	QPSK	50	50	16.64	16.69	16.65	
20	QPSK	100	0	16.70	16.73	16.70	18
20	16QAM	1	0	16.92	16.90	16.89	
20	16QAM	1	49	16.85	16.89	16.76	18
20	16QAM	1	99	16.67	16.74	16.62	
20	16QAM	50	0	15.75	15.91	15.79	17
20	16QAM	50	24	15.62	15.78	15.65	
20	16QAM	50	50	15.54	15.66	15.59	17
20	16QAM	100	0	15.55	15.57	15.52	
Channel				26115	26365	26615	18
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	17.00	17.06	16.97	18
15	QPSK	1	37	16.84	16.82	16.79	
15	QPSK	1	74	16.73	16.83	16.67	18
15	QPSK	36	0	16.85	16.86	16.78	
15	QPSK	36	20	16.72	16.59	16.59	18
15	QPSK	36	39	16.55	16.66	16.57	
15	QPSK	75	0	16.75	16.70	16.59	18
15	16QAM	1	0	16.87	16.83	16.79	
15	16QAM	1	37	16.79	16.78	16.70	18
15	16QAM	1	74	16.62	16.64	16.52	
15	16QAM	36	0	15.67	15.84	15.70	17
15	16QAM	36	20	15.54	15.72	15.60	
15	16QAM	36	39	15.44	15.62	15.51	17
15	16QAM	75	0	15.51	15.48	15.44	
Channel				26090	26365	26640	18
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	17.04	17.08	16.96	18
10	QPSK	1	25	16.80	16.81	16.76	
10	QPSK	1	49	16.71	16.81	16.65	18
10	QPSK	25	0	16.88	16.90	16.82	
10	QPSK	25	12	16.70	16.62	16.59	18
10	QPSK	25	25	16.55	16.61	16.55	
10	QPSK	50	0	16.75	16.63	16.60	18
10	16QAM	1	0	16.89	16.85	16.83	
10	16QAM	1	25	16.74	16.86	16.70	18
10	16QAM	1	49	16.60	16.65	16.56	
10	16QAM	25	0	15.70	15.86	15.75	17
10	16QAM	25	12	15.58	15.71	15.58	
10	16QAM	25	25	15.48	15.55	15.55	17
10	16QAM	50	0	15.47	15.48	15.46	
Channel				26065	26365	26665	18
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	17.03	17.06	16.93	18
5	QPSK	1	12	16.80	16.85	16.83	
5	QPSK	1	24	16.71	16.78	16.65	18
5	QPSK	12	0	16.81	16.86	16.82	
5	QPSK	12	7	16.75	16.65	16.65	18
5	QPSK	12	13	16.57	16.63	16.55	
5	QPSK	25	0	16.72	16.64	16.61	18
5	16QAM	1	0	16.88	16.85	16.85	
5	16QAM	1	12	16.78	16.83	16.69	18
5	16QAM	1	24	16.60	16.68	16.58	
5	16QAM	12	0	15.64	15.82	15.69	17
5	16QAM	12	7	15.53	15.68	15.56	
5	16QAM	12	13	15.48	15.57	15.55	17
5	16QAM	25	0	15.49	15.47	15.44	
Channel				26055	26365	26675	18
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	16.92	17.02	16.94	18
3	QPSK	1	8	16.74	16.79	16.74	
3	QPSK	1	14	16.59	16.69	16.57	18
3	QPSK	8	0	16.75	16.80	16.66	
3	QPSK	8	4	16.71	16.59	16.58	18
3	QPSK	8	7	16.46	16.61	16.48	
3	QPSK	15	0	16.67	16.54	16.52	18
3	16QAM	1	0	16.82	16.76	16.77	
3	16QAM	1	8	16.75	16.81	16.65	18
3	16QAM	1	14	16.60	16.66	16.50	
3	16QAM	8	0	15.66	15.81	15.61	17
3	16QAM	8	4	15.44	15.64	15.51	
3	16QAM	8	7	15.44	15.56	15.39	17
3	16QAM	15	0	15.39	15.42	15.38	
Channel				26047	26365	26683	18
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	16.96	17.01	16.93	18
1.4	QPSK	1	3	16.74	16.80	16.68	
1.4	QPSK	1	5	16.60	16.70	16.59	18
1.4	QPSK	3	0	16.73	16.77	16.69	
1.4	QPSK	3	1	16.65	16.57	16.55	18
1.4	QPSK	3	3	16.45	16.54	16.53	
1.4	QPSK	6	0	16.65	16.56	16.53	18
1.4	16QAM	1	0	16.83	16.81	16.76	
1.4	16QAM	1	3	16.73	16.79	16.64	16
1.4	16QAM	1	5	16.59	16.64	16.48	
1.4	16QAM	3	0	16.40	16.63	16.38	15
1.4	16QAM	3	1	16.24	16.41	16.30	
1.4	16QAM	3	3	16.22	16.34	16.22	15
1.4	16QAM	6	0	15.46	15.41	15.40	

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	20
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	18.96	19.07	19.04	19
15	QPSK	1	37	18.78	18.98	18.91	
15	QPSK	1	74	18.63	18.78	18.81	19
15	QPSK	36	0	17.74	17.98	17.97	
15	QPSK	36	20	17.64	17.77	17.87	19
15	QPSK	36	39	17.53	17.65	17.79	
15	QPSK	75	0	17.49	17.64	17.62	19
15	16QAM	1	0	17.88	17.96	17.93	
15	16QAM	1	37	17.76	17.85	17.82	19
15	16QAM	1	74	17.57	17.75	17.67	
15	16QAM	36	0	16.76	16.92	16.83	18
15	16QAM	36	20	16.59	16.73	16.74	
15	16QAM	36	39	16.53	16.65	16.69	18
15	16QAM	75	0	16.36	16.47	16.53	
Channel				26740	26865	26990	20
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	18.93	18.99	18.99	19
10	QPSK	1	25	18.68	18.92	18.84	
10	QPSK	1	49	18.54	18.68	18.75	19
10	QPSK	25	0	17.64	17.88	17.89	
10	QPSK	25	12	17.55	17.68	17.80	19
10	QPSK	25	25	17.43	17.57	17.76	
10	QPSK	50	0	17.45	17.56	17.58	19
10	16QAM	1	0	17.81	17.88	17.83	
10	16QAM	1	25	17.66	17.82	17.72	19
10	16QAM	1	49	17.46	17.70	17.64	
10	16QAM	25	0	16.68	16.87	16.76	18
10	16QAM	25	12	16.51	16.68	16.69	
10	16QAM	25	25	16.50	16.60	16.65	18
10	16QAM	50	0	16.26	16.43	16.50	
Channel				26715	26865	27015	20
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	18.89	18.98	18.96	19
5	QPSK	1	12	18.74	18.87	18.87	
5	QPSK	1	24	18.56	18.74	18.76	19
5	QPSK	12	0	17.66	17.89	17.89	
5	QPSK	12	7	17.53	17.71	17.79	19
5	QPSK	12	13	17.43	17.59	17.74	
5	QPSK	25	0	17.40	17.56	17.52	19
5	16QAM	1	0	17.78	17.93	17.84	
5	16QAM	1	12	17.70	17.74	17.79	19
5	16QAM	1	24	17.50	17.67	17.62	
5	16QAM	12	0	16.72	16.88	16.74	18
5	16QAM	12	7	16.50	16.69	16.70	
5	16QAM	12	13	16.44	16.60	16.66	18
5	16QAM	25	0	16.30	16.38	16.44	
Channel				26705	26865	27025	20
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	18.91	19.00	18.96	19
3	QPSK	1	8	18.68	18.89	18.86	
3	QPSK	1	14	18.53	18.71	18.73	19
3	QPSK	8	0	17.68	17.88	17.87	
3	QPSK	8	4	17.58	17.72	17.77	19
3	QPSK	8	7	17.45	17.60	17.70	

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	21.61	21.67	21.60	
20	QPSK	1	49	21.44	21.50	21.45	
20	QPSK	1	99	21.28	21.34	21.27	21.5
20	QPSK	50	0	20.49	20.52	20.47	
20	QPSK	50	24	20.38	20.29	20.36	
20	QPSK	50	50	20.26	20.12	20.24	
20	QPSK	100	0	20.12	20.15	20.06	21.5
20	16QAM	1	0	20.42	20.39	20.43	
20	16QAM	1	49	20.32	20.28	20.34	
20	16QAM	1	99	20.18	20.12	20.25	
20	16QAM	50	0	19.37	19.27	19.46	20.5
20	16QAM	50	24	19.19	19.17	19.38	
20	16QAM	50	50	19.08	18.99	19.29	
20	16QAM	100	0	18.88	18.89	19.18	
Channel				131992	132267	132542	
Frequency (MHz)				1712.5	1740	1767.5	
15	QPSK	1	0	21.57	21.60	21.51	
15	QPSK	1	37	21.39	21.42	21.35	
15	QPSK	1	74	21.22	21.29	21.23	21.5
15	QPSK	36	0	20.43	20.48	20.43	
15	QPSK	36	20	20.28	20.18	20.29	
15	QPSK	36	39	20.22	20.06	20.19	
15	QPSK	75	0	20.02	20.11	20.01	21.5
15	16QAM	1	0	20.32	20.29	20.38	
15	16QAM	1	37	20.26	20.22	20.31	
15	16QAM	1	74	20.07	20.07	20.15	
15	16QAM	36	0	19.30	19.21	19.38	20.5
15	16QAM	36	20	19.13	19.09	19.33	
15	16QAM	36	39	19.03	18.93	19.19	
15	16QAM	75	0	18.79	18.85	19.13	
Channel				131967	132267	132567	
Frequency (MHz)				1710	1740	1770	
10	QPSK	1	0	21.55	21.60	21.50	
10	QPSK	1	25	21.37	21.44	21.41	
10	QPSK	1	49	21.20	21.26	21.21	21.5
10	QPSK	25	0	20.42	20.44	20.37	
10	QPSK	25	12	20.27	20.21	20.25	
10	QPSK	25	25	20.22	20.07	20.21	
10	QPSK	50	0	20.09	20.09	20.00	21.5
10	16QAM	1	0	20.31	20.32	20.37	
10	16QAM	1	25	20.25	20.18	20.24	
10	16QAM	1	49	20.07	20.02	20.16	
10	16QAM	25	0	19.28	19.21	19.42	20.5
10	16QAM	25	12	19.10	19.10	19.33	
10	16QAM	25	25	19.01	18.95	19.24	
10	16QAM	50	0	18.85	18.84	19.12	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.57	21.58	21.49	
5	QPSK	1	12	21.33	21.43	21.40	
5	QPSK	1	24	21.23	21.24	21.18	21.5
5	QPSK	12	0	20.39	20.45	20.44	
5	QPSK	12	7	20.31	20.22	20.28	
5	QPSK	12	13	20.18	20.02	20.16	
5	QPSK	25	0	20.02	20.07	19.99	21.5
5	16QAM	1	0	20.31	20.33	20.34	
5	16QAM	1	12	20.22	20.24	20.25	
5	16QAM	1	24	20.08	20.04	20.16	
5	16QAM	12	0	19.27	19.23	19.40	20.5
5	16QAM	12	7	19.14	19.08	19.32	
5	16QAM	12	13	19.05	18.92	19.24	
5	16QAM	25	0	18.80	18.85	19.08	
Channel				131967	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.47	21.50	21.47	
3	QPSK	1	8	21.33	21.35	21.28	
3	QPSK	1	14	21.13	21.26	21.18	21.5
3	QPSK	8	0	20.37	20.38	20.30	
3	QPSK	8	4	20.23	20.15	20.22	
3	QPSK	8	7	20.07	19.99	20.11	
3	QPSK	15	0	20.00	20.03	19.94	21.5
3	16QAM	1	0	20.24	20.19	20.31	
3	16QAM	1	8	20.12	20.14	20.23	
3	16QAM	1	14	20.04	19.93	20.10	
3	16QAM	8	0	19.23	19.14	19.31	20.5
3	16QAM	8	4	19.09	19.03	19.21	
3	16QAM	8	7	18.99	18.83	19.17	
3	16QAM	15	0	18.72	18.76	19.02	
Channel				131982	132325	132668	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.48	21.54	21.50	
1.4	QPSK	1	3	21.29	21.39	21.31	
1.4	QPSK	1	5	21.15	21.27	21.21	22.5
1.4	QPSK	3	0	20.83	20.84	20.79	
1.4	QPSK	3	1	20.75	20.63	20.69	
1.4	QPSK	3	3	20.61	20.68	20.64	
1.4	QPSK	6	0	20.03	20.01	19.96	21.5
1.4	16QAM	1	0	20.26	20.25	20.35	
1.4	16QAM	1	3	20.18	20.16	20.20	
1.4	16QAM	1	5	20.02	19.92	20.13	
1.4	16QAM	3	0	19.65	19.70	19.86	21.5
1.4	16QAM	3	1	19.57	19.50	19.69	
1.4	16QAM	3	3	19.63	19.55	19.65	
1.4	16QAM	6	0	18.76	18.72	19.06	

Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	20.53	20.58	20.48	
20	QPSK	1	49	20.34	20.42	20.35	21.5
20	QPSK	1	99	20.15	20.25	20.21	
20	QPSK	50	0	19.30	19.44	19.43	
20	QPSK	50	24	19.11	19.32	19.32	20.5
20	QPSK	50	50	18.98	19.12	19.20	
20	QPSK	100	0	18.86	19.11	19.08	
20	16QAM	1	0	19.25	19.39	19.35	
20	16QAM	1	49	19.10	19.20	19.18	20.5
20	16QAM	1	99	18.97	19.07	19.00	
20	16QAM	50	0	18.18	18.21	18.17	
20	16QAM	50	24	18.07	18.07	18.03	19.5
20	16QAM	50	50	17.97	17.93	17.88	
20	16QAM	100	0	17.94	17.85	17.90	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	20.48	20.52	20.43	
15	QPSK	1	37	20.25	20.33	20.27	
15	QPSK	1	74	20.09	20.20	20.11	21.5
15	QPSK	36	0	19.20	19.36	19.40	
15	QPSK	36	20	19.05	19.27	19.24	
15	QPSK	36	39	18.92	19.06	19.10	
15	QPSK	75	0	18.81	19.05	19.00	20.5
15	16QAM	1	0	19.18	19.32	19.29	
15	16QAM	1	37	19.00	19.12	19.10	
15	16QAM	1	74	18.89	18.97	18.92	
15	16QAM	36	0	18.09	18.12	18.11	19.5
15	16QAM	36	20	18.03	18.00	17.93	
15	16QAM	36	39	17.93	17.85	17.79	
15	16QAM	75	0	17.86	17.77	17.87	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	
10	QPSK	1	0	20.49	20.54	20.43	
10	QPSK	1	25	20.28	20.36	20.31	
10	QPSK	1	49	20.05	20.19	20.14	21.5
10	QPSK	25	0	19.21	19.35	19.40	
10	QPSK	25	12	19.06	19.23	19.26	
10	QPSK	25	25	18.91	19.06	19.16	
10	QPSK	50	0	18.77	19.00	19.03	20.5
10	16QAM	1	0	19.19	19.32	19.26	
10	16QAM	1	25	19.03	19.13	19.08	
10	16QAM	1	49	18.92	19.01	18.96	
10	16QAM	25	0	18.10	18.12	18.08	19.5
10	16QAM	25	12	17.98	18.01	17.97	
10	16QAM	25	25	17.90	17.88	17.82	
10	16QAM	50	0	17.86	17.77	17.85	
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	20.49	20.48	20.42	
5	QPSK	1	12	20.25	20.32	20.31	
5	QPSK	1	24	20.11	20.16	20.12	21.5
5	QPSK	12	0	19.22	19.33	19.33	
5	QPSK	12	7	19.03	19.21	19.22	
5	QPSK	12	13	18.94	19.06	19.10	
5	QPSK	25	0	18.79	19.05	19.03	20.5
5	16QAM	1	0	19.20	19.29	19.26	
5	16QAM	1	12	19.06	19.13	19.10	
5	16QAM	1	24	18.87	18.98	18.91	
5	16QAM	12	0	18.11	18.18	18.12	19.5
5	16QAM	12	7	18.02	18.03	17.93	
5	16QAM	12	13	17.92	17.87	17.85	
5	16QAM	25	0	17.89	17.80	17.81	

Band 41 (2496~2690MHz) (dBm)_HPUE										
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	21.43	21.33	21.58	21.41	21.47	22.5	
20	QPSK	1	49	21.34	21.26	21.48	21.36	21.25		
20	QPSK	1	99	21.19	21.10	21.35	21.22	21.11		
20	QPSK	50	0	20.41	20.34	20.59	20.30	20.35		
20	QPSK	50	24	20.27	20.25	20.41	20.19	20.26	21.5	
20	QPSK	50	50	20.13	20.11	20.23	20.05	20.11		
20	QPSK	100	0	20.00	19.99	20.13	19.88	19.97		
20	16QAM	1	0	20.46	20.42	20.72	20.49	20.43		
20	16QAM	1	49	20.29	20.32	20.59	20.30	20.25	21.5	
20	16QAM	1	99	20.17	20.22	20.48	20.21	20.11		
20	16QAM	50	0	19.36	19.39	19.65	19.34	19.22		
20	16QAM	50	24	19.23	19.19	19.47	19.26	19.09		
20	16QAM	50	50	19.13	19.09	19.34	19.13	18.90	20.5	
20	16QAM	100	0	19.00	18.97	19.21	19.02	18.72		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.35	21.24	21.45	21.38	21.28	22.5	
15	QPSK	1	37	21.30	21.19	21.43	21.25	21.17		
15	QPSK	1	74	21.11	21.06	21.28	21.12	21.01		
15	QPSK	36	0	20.31	20.24	20.49	20.33	20.30		
15	QPSK	36	20	20.19	20.18	20.36	20.18	20.16	21.5	
15	QPSK	36	39	20.03	20.06	20.16	20.06	20.01		
15	QPSK	75	0	19.96	19.88	20.05	19.91	19.91		
15	16QAM	1	0	20.39	20.33	20.65	20.37	20.36		
15	16QAM	1	37	20.18	20.22	20.53	20.20	20.27	21.5	
15	16QAM	1	74	20.10	20.18	20.44	20.10	20.18		
15	16QAM	36	0	19.25	19.35	19.56	19.31	19.28		
15	16QAM	36	20	19.13	19.14	19.38	19.15	19.12		
15	16QAM	36	39	19.09	19.00	19.25	19.06	19.06	20.5	
15	16QAM	75	0	18.96	18.94	19.11	18.90	18.88		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.39	21.25	21.49	21.33	21.24	22.5	
10	QPSK	1	25	21.28	21.21	21.40	21.30	21.22		
10	QPSK	1	49	21.09	21.00	21.27	21.13	21.02		
10	QPSK	25	0	20.36	20.26	20.53	20.32	20.25		
10	QPSK	25	12	20.24	20.16	20.31	20.19	20.21	21.5	
10	QPSK	25	25	20.04	20.02	20.14	20.04	20.03		
10	QPSK	50	0	19.97	19.96	20.08	19.93	19.96		
10	16QAM	1	0	20.43	20.37	20.61	20.39	20.33		
10	16QAM	1	25	20.23	20.28	20.55	20.22	20.28	21.5	
10	16QAM	1	49	20.13	20.18	20.44	20.13	20.16		
10	16QAM	25	0	19.30	19.33	19.55	19.28	19.31		
10	16QAM	25	12	19.18	19.13	19.37	19.20	19.15		
10	16QAM	25	25	19.04	18.99	19.25	19.07	19.01	20.5	
10	16QAM	50	0	18.91	18.91	19.13	18.91	18.90		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	
Frequency (MHz)				2498.5	2545.5	2593	2640.5	2687.5		
5	QPSK	1	0	21.35	21.16	21.39	21.18	21.13	22.5	
5	QPSK	1	12	21.18	21.14	21.30	21.12	21.06		
5	QPSK	1	24	21.05	20.91	21.23	21.00	20.89		
5	QPSK	12	0	20.32	20.21	20.43	20.20	20.13		
5	QPSK	12	7	20.15	20.05	20.24	20.12	20.05	21.5	
5	QPSK	12	13	19.95	19.94	20.10	19.88	19.88		
5	QPSK	25	0	19.86	19.86	20.01	19.84	19.82		
5	16QAM	1	0	20.34	20.30	20.51	20.25	20.22		
5	16QAM	1	12	20.14	20.25	20.51	20.08	20.18	21.5	
5	16QAM	1	24	20.04	20.14	20.40	20.01	19.99		
5	16QAM	12	0	19.19	19.23	19.47	19.13	19.25		
5	16QAM	12	7	19.08	19.04	19.31	19.00	18.92		
5	16QAM	12	13	18.97	18.89	19.18	18.93	18.84	20.5	
5	16QAM	25	0	18.85	18.81	19.08	18.73	18.80		

Band 41 (2496~2690MHz) (dBm)_P3										
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	18.22	18.37	18.41	18.19	18.34	19.5	
20	QPSK	1	49	18.07	18.21	18.28	18.07	18.15		
20	QPSK	1	99	17.97	18.11	18.13	17.91	18.00		
20	QPSK	50	0	17.17	17.38	17.39	17.13	17.25		
20	QPSK	50	24	17.00	17.24	17.18	16.98	17.11	18.5	
20	QPSK	50	50	16.92	17.15	17.04	16.90	17.01		
20	QPSK	100	0	16.72	16.97	16.99	16.79	16.82		
20	16QAM	1	0	17.23	17.53	17.59	17.34	17.49		
20	16QAM	1	49	17.14	17.38	17.51	17.25	17.41	18.5	
20	16QAM	1	99	16.94	17.25	17.32	17.07	17.31		
20	16QAM	50	0	16.23	16.54	16.60	16.30	16.52		
20	16QAM	50	24	16.08	16.45	16.50	16.17	16.35		
20	16QAM	50	50	15.94	16.32	16.30	16.06	16.24	17.5	
20	16QAM	100	0	15.75	16.22	16.16	15.97	16.14		
Channel				39725	40173	40620	41068	41515		Tune-up limit (dbm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.17	18.33	18.34	18.16	18.22	19.5	
15	QPSK	1	37	18.02	18.12	18.21	17.98	18.14		
15	QPSK	1	74	17.89	18.06	18.04	17.87	18.06		
15	QPSK	36	0	17.07	17.33	17.31	17.09	17.29		
15	QPSK	36	20	16.94	17.21	17.09	16.91	17.20	18.5	
15	QPSK	36	39	16.83	17.08	16.98	16.89	17.07		
15	QPSK	75	0	16.69	16.91	16.80	16.62	16.91		
15	16QAM	1	0	17.16	17.45	17.52	17.18	17.45		
15	16QAM	1	37	17.11	17.34	17.43	17.10	17.32	18.5	
15	16QAM	1	74	16.89	17.15	17.22	16.84	17.22		
15	16QAM	36	0	16.13	16.47	16.52	16.16	16.46		
15	16QAM	36	20	16.00	16.34	16.43	16.05	16.41		
15	16QAM	36	39	15.83	16.28	16.24	15.84	16.24	17.5	
15	16QAM	75	0	15.70	16.12	16.10	15.71	16.12		
Channel				39700	40160	40620	41080	41540		Tune-up limit (dbm)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	18.10	18.22	18.28	18.10	18.22	19.5	
10	QPSK	1	25	17.96	18.07	18.17	17.92	18.01		
10	QPSK	1	49	17.81	17.98	17.98	17.79	17.98		
10	QPSK	25	0	17.00	17.22	17.21	16.98	17.27		
10	QPSK	25	12	16.86	17.10	17.01	16.89	17.15	18.5	
10	QPSK	25	25	16.74	17.02	16.89	16.79	17.01		
10	QPSK	50	0	16.64	16.80	16.74	16.62	16.86		
10	16QAM	1	0	17.11	17.37	17.45	17.10	17.34		
10	16QAM	1	25	17.01	17.29	17.39	17.08	17.25	18.5	
10	16QAM	1	49	16.78	17.06	17.12	16.84	17.11		
10	16QAM	25	0	16.02	16.36	16.48	16.07	16.41		
10	16QAM	25	12	15.93	16.30	16.35	15.94	16.29		
10	16QAM	25	25	15.72	16.21	16.19	15.74	16.19	17.5	
10	16QAM	50	0	15.59	16.08	16.00	15.59	16.06		
Channel				39675	40148	40620	41093	41565		Tune-up limit (dbm)
Frequency (MHz)				2498.5	2545.5	2593	2640.5	2687.5		
5	QPSK	1	0	18.03	18.16	18.25	18.02	18.19	19.5	
5	QPSK	1	12	17.90	18.00	18.13	17.89	17.98		
5	QPSK	1	24	17.78	17.94	17.91	17.71	17.93		
5	QPSK	12	0	16.92	17.15	17.12	16.90	17.16		
5	QPSK	12	7	16.78	17.05	16.92	16.77	17.00	18.5	
5	QPSK	12	13	16.66	16.93	16.85	16.68	16.94		
5	QPSK	25	0	16.58	16.76	16.65	16.58	16.72		
5	16QAM	1	0	17.02	17.32	17.35	17.03	17.31		
5	16QAM	1	12	16.91	17.23	17.30	16.98	17.21	18.5	
5	16QAM	1	24	16.70	16.99	17.01	16.74	17.00		
5	16QAM	12	0	15.92	16.26	16.40	15.98	16.32		
5	16QAM	12	7	15.85	16.23	16.29	15.88	16.25		
5	16QAM	12	13	15.68	16.12	16.11	15.64	16.16	17.5	
5	16QAM	25	0	15.50	15.98	15.93	15.51	15.98		