Annex E Conducted Power

Note:

Conducted power unit: dBm

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

Full Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.54	32.61	32.60	33.50	23.54	23.61	23.60	24.50
GPRS 1 Tx slot	32.55	32.65	32.58	33.50	23.55	23.65	23.58	24.50
GPRS 2 Tx slots	31.61	31.68	31.49	32.50	25.61	25.68	25.49	26.50
GPRS 3 Tx slots	29.54	29.65	29.61	30.50	25.28	25.39	25.35	26.24
GPRS 4 Tx slots	28.48	28.56	28.55	29.50	25.48	25.56	25.55	26.50
EDGE 1 Tx slot	26.44	26.51	26.48	27.50	17.44	17.51	17.48	18.50
EDGE 2 Tx slots	25.51	25.58	25.53	26.50	19.51	19.58	19.53	20.50
EDGE 3 Tx slots	23.23	23.11	23.09	24.00	18.97	18.85	18.83	19.74
EDGE 4 Tx slots	22.05	21.98	22.00	23.00	19.05	18.98	19.00	20.00
Mode		Max.	32.65			Max.	25.68	
Attenuator	Cable Loss : 0.6							
Date	7/9							

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.45	29.58	29.51	31.30	20.45	20.58	20.51	22.30
GPRS 1 Tx slot	29.60	29.63	29.59	31.30	20.60	20.63	20.59	22.30
GPRS 2 Tx slots	28.54	28.67	28.49	29.30	22.54	22.67	22.49	23.30
GPRS 3 Tx slots	26.48	26.53	26.50	27.30	22.22	22.27	22.24	23.04
GPRS 4 Tx slots	25.55	25.49	25.36	26.30	22.55	22.49	22.36	23.30
EDGE 1 Tx slot	25.39	25.38	25.24	26.30	16.39	16.38	16.24	17.30
EDGE 2 Tx slots	24.43	24.33	24.39	25.30	18.43	18.33	18.39	19.30
EDGE 3 Tx slots	22.86	22.72	22.70	23.30	18.60	18.46	18.44	19.04
EDGE 4 Tx slots	21.79	21.84	21.75	22.30	18.79	18.84	18.75	19.30
Mode		Max.	29.63			Max.	22.67	
Attenuator	Cable Loss :							
Date	7/9							

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	22.70	22.77	22.58	23.70	22.82	22.85	22.74	23.80	22.17	22.21	22.19	23.00
3GPP Rel 5	HSDPA Subtest-1	22.12	22.04	22.05	23.00	22.13	22.09	22.19	23.00	21.92	21.96	22.10	23.00
3GPP Rel 5	HSDPA Subtest-2	22.10	22.01	21.96	23.00	22.05	22.08	22.23	23.00	21.96	22.02	22.07	23.00
3GPP Rel 5	HSDPA Subtest-3	21.65	21.43	21.46	22.50	21.56	21.60	21.73	22.50	21.53	21.51	21.56	22.50
3GPP Rel 5	HSDPA Subtest-4	21.57	21.37	21.48	22.50	21.56	21.57	21.69	22.50	21.49	21.50	21.54	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.07	22.04	22.08	22.50	22.12	22.10	22.14	23.00	22.01	22.00	22.14	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.05	22.01	22.03	22.50	22.09	22.07	22.10	23.00	21.94	21.98	22.11	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.56	21.45	21.52	22.50	21.63	21.57	21.54	22.50	21.55	21.52	21.58	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.58	21.48	21.53	22.00	21.61	21.53	21.60	22.50	21.46	21.55	21.61	22.50
3GPP Rel 6	HSUPA Subtest-1	21.55	21.45	21.58	22.50	21.56	21.66	21.74	22.50	21.52	21.51	21.51	22.50
3GPP Rel 6	HSUPA Subtest-2	22.03	21.98	22.05	22.50	22.05	22.14	22.19	23.00	21.95	22.00	21.07	23.00
3GPP Rel 6	HSUPA Subtest-3	21.13	21.00	21.02	22.00	21.10	21.16	21.27	22.00	20.98	22.03	22.20	23.00
3GPP Rel 6	HSUPA Subtest-4	22.12	21.91	22.00	22.00	22.08	22.11	22.18	23.00	21.94	22.02	22.15	23.00
3GPP Rel 6	HSUPA Subtest-5	21.07	20.92	21.05	22.00	22.05	21.17	21.29	22.00	20.99	21.03	22.06	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.10	20.96	21.03	22.00	21.02	21.12	21.15	22.00	21.01	21.04	21.08	22.00
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode		Max.	22.77			Max.	22.85			Max.	22.21	
Date		7/9				7/9				7/9		

Band 2 (1900MHz Band) (dBm) — Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
	Channel			18700	18900	19100	
	Frequency (MHz)			1860	1880	1900	
20	QPSK	1	0	22.83	22.87	22.78	24
20	QPSK	1	49	22.75	22.82	22.61	
20	QPSK	1	99	22.70	22.71	22.55	
20	QPSK	50	0	21.72	21.75	21.69	23
20	QPSK	50	24	21.66	21.71	21.62	
20	QPSK	50	50	21.55	21.57	21.49	
20	QPSK	100	0	21.60	21.63	21.56	
20	16QAM	1	0	21.86	21.92	21.80	23
20	16QAM	1	49	21.75	21.76	21.70	
20	16QAM	1	99	21.62	21.68	21.60	
20	16QAM	50	0	20.83	20.91	20.78	22
20	16QAM	50	24	20.75	20.78	20.70	
20	16QAM	50	50	20.66	20.69	20.63	
20	16QAM	100	0	20.60	20.61	20.57	
20	64QAM	1	0	20.79	20.87	20.73	22
20	64QAM	1	49	20.66	20.73	20.64	
20	64QAM	1	99	20.65	20.68	20.55	
20	64QAM	50	0	20.11	20.20	20.06	21
20	64QAM	50	24	20.07	20.10	19.97	
20	64QAM	50	50	20.03	20.05	20.00	
20	64QAM	100	0	19.98	19.93	19.99	
	Channel			18675	18900	19125	Tune-up limit (dBm)
	Frequency (MHz)			1857.5	1880	1902.5	
15	QPSK	1	0	22.59	22.64	22.51	24
15	QPSK	1	37	22.53	22.56	22.46	
15	QPSK	1	74	22.48	22.47	22.32	
15	QPSK	36	0	21.57	21.51	21.53	23
15	QPSK	36	20	21.39	21.47	21.49	
15	QPSK	36	39	21.46	21.36	21.34	
15	QPSK	75	0	21.42	21.39	21.26	
15	16QAM	1	0	21.66	21.61	21.54	23
15	16QAM	1	37	21.61	21.49	21.36	
15	16QAM	1	74	21.46	21.45	21.29	
15	16QAM	36	0	20.70	20.73	20.65	22
15	16QAM	36	20	20.55	20.62	20.49	
15	16QAM	36	39	20.57	20.41	20.34	
15	16QAM	75	0	20.40	20.42	20.41	
15	64QAM	1	0	20.68	20.73	20.39	22
15	64QAM	1	37	20.38	20.42	20.32	
15	64QAM	1	74	20.31	20.36	20.41	
15	64QAM	36	0	19.92	20.10	19.83	21
15	64QAM	36	20	19.76	19.94	19.83	
15	64QAM	36	39	19.69	19.88	19.87	
15	64QAM	75	0	19.66	19.62	19.65	
	Channel			18650	18900	19150	Tune-up limit (dBm)
	Frequency (MHz)			1855	1880	1905	
10	QPSK	1	0	22.57	22.61	22.56	24
10	QPSK	1	25	22.51	22.57	22.47	
10	QPSK	1	49	22.43	22.54	22.39	
10	QPSK	25	0	21.44	21.41	21.41	23
10	QPSK	25	12	21.50	21.45	21.53	
10	QPSK	25	25	21.31	21.44	21.17	
10	QPSK	50	0	21.36	21.41	21.24	
10	16QAM	1	0	21.69	21.73	21.58	23
10	16QAM	1	25	21.59	21.62	21.45	
10	16QAM	1	49	21.53	21.42	21.37	
10	16QAM	25	0	20.72	20.61	20.67	22
10	16QAM	25	12	20.50	20.51	20.49	
10	16QAM	25	25	20.51	20.39	20.45	
10	16QAM	50	0	20.47	20.52	20.45	
10	64QAM	1	0	20.69	20.57	20.39	22
10	64QAM	1	25	20.36	20.63	20.53	
10	64QAM	1	49	20.40	20.47	20.32	
10	64QAM	25	0	19.96	20.00	19.89	21
10	64QAM	25	12	19.93	19.99	19.83	
10	64QAM	25	25	19.75	19.72	19.78	
10	64QAM	50	0	19.79	19.79	19.86	
	Channel			18625	18900	19175	Tune-up limit (dBm)
	Frequency (MHz)			1852.5	1880	1907.5	
5	QPSK	1	0	22.54	22.62	22.49	24
5	QPSK	1	12	22.46	22.51	22.44	
5	QPSK	1	24	22.52	22.51	22.30	
5	QPSK	12	0	21.56	21.41	21.50	23
5	QPSK	12	7	21.53	21.37	21.52	
5	QPSK	12	13	21.33	21.26	21.34	
5	QPSK	25	0	21.41	21.47	21.34	
5	16QAM	1	0	21.56	21.65	21.46	23
5	16QAM	1	12	21.47	21.50	21.43	
5	16QAM	1	24	21.37	21.34	21.28	
5	16QAM	12	0	20.48	20.60	20.64	22
5	16QAM	12	7	20.45	20.47	20.44	
5	16QAM	12	13	20.54	20.51	20.31	
5	16QAM	25	0	20.37	20.33	20.44	
5	64QAM	1	0	20.56	20.57	20.55	22
5	64QAM	1	12	20.45	20.59	20.47	
5	64QAM	1	24	20.43	20.36	20.32	
5	64QAM	12	0	19.85	20.07	19.83	21
5	64QAM	12	7	19.91	19.87	19.77	
5	64QAM	12	13	19.85	19.75	19.83	
5	64QAM	25	0	19.82	19.67	19.73	
	Channel			18615	18900	19185	Tune-up limit (dBm)
	Frequency (MHz)			1851.5	1880	1908.5	
3	QPSK	1	0	22.31	22.45	22.34	24
3	QPSK	1	8	22.27	22.30	22.27	
3	QPSK	1	14	22.21	22.24	22.24	
3	QPSK	8	0	21.42	21.44	21.29	23
3	QPSK	8	4	21.33	21.31	21.18	
3	QPSK	8	7	21.26	21.18	21.12	
3	QPSK	15	0	21.13	21.09	21.06	
3	16QAM	1	0	21.42	21.48	21.27	23
3	16QAM	1	8	21.26	21.36	21.19	
3	16QAM	1	14	21.19	21.16	21.17	
3	16QAM	8	0	20.42	20.47	20.25	22
3	16QAM	8	4	20.25	20.35	20.23	
3	16QAM	8	7	20.22	20.39	20.12	
3	16QAM	15	0	20.30	20.29	20.12	

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	22.72	22.77	22.73	24
20	QPSK	1	49	22.70	22.63	22.59	
20	QPSK	1	99	22.65	22.72	22.67	
20	QPSK	50	0	21.69	21.72	21.68	23
20	QPSK	50	24	21.55	21.57	21.49	
20	QPSK	50	50	21.47	21.56	21.58	
20	QPSK	100	0	21.53	21.67	21.55	
20	16QAM	1	0	21.77	21.88	21.79	23
20	16QAM	1	49	21.58	21.69	21.59	
20	16QAM	1	99	21.54	21.71	21.60	
20	16QAM	50	0	20.64	20.78	20.56	22
20	16QAM	50	24	20.71	20.74	20.58	
20	16QAM	50	50	20.63	20.49	20.52	
20	16QAM	100	0	20.50	20.53	20.41	
20	64QAM	1	0	20.78	20.83	20.72	22
20	64QAM	1	49	20.48	20.69	20.61	
20	64QAM	1	99	20.52	20.54	20.52	
20	64QAM	50	0	19.95	20.14	19.85	21
20	64QAM	50	24	20.00	19.94	19.78	
20	64QAM	50	50	19.84	19.85	19.95	
20	64QAM	100	0	19.78	19.71	19.96	
	Channel			20025	20175	20325	Tune-up limit (dBm)
	Frequency (MHz)			1717.5	1732.5	1747.5	
15	QPSK	1	0	22.54	22.65	22.62	24
15	QPSK	1	37	22.46	22.53	22.50	
15	QPSK	1	74	22.41	22.56	22.52	
15	QPSK	36	0	21.55	21.61	21.57	23
15	QPSK	36	20	21.37	21.49	21.38	
15	QPSK	36	39	21.42	21.45	21.42	
15	QPSK	75	0	21.46	21.50	21.41	
15	16QAM	1	0	21.67	21.62	21.59	23
15	16QAM	1	37	21.47	21.61	21.52	
15	16QAM	1	74	21.52	21.54	21.43	
15	16QAM	36	0	20.49	20.64	20.53	22
15	16QAM	36	20	20.57	20.67	20.44	
15	16QAM	36	39	20.57	20.36	20.42	
15	16QAM	75	0	20.27	20.28	20.38	
15	64QAM	1	0	20.52	20.64	20.55	22
15	64QAM	1	37	20.53	20.57	20.49	
15	64QAM	1	74	20.54	20.44	20.39	
15	64QAM	36	0	19.89	19.99	19.85	21
15	64QAM	36	20	19.97	20.01	19.86	
15	64QAM	36	39	19.72	19.74	19.71	
15	64QAM	75	0	19.65	19.80	19.77	
	Channel			20000	20175	20350	Tune-up limit (dBm)
	Frequency (MHz)			1715	1732.5	1750	
10	QPSK	1	0	22.35	22.46	22.43	24
10	QPSK	1	25	22.27	22.34	22.31	
10	QPSK	1	49	22.22	22.37	22.33	
10	QPSK	25	0	21.36	21.42	21.38	23
10	QPSK	25	12	21.18	21.30	21.19	
10	QPSK	25	25	21.23	21.26	21.23	
10	QPSK	50	0	21.27	21.31	21.22	
10	16QAM	1	0	21.48	21.43	21.40	23
10	16QAM	1	25	21.28	21.42	21.33	
10	16QAM	1	49	21.33	21.35	21.24	
10	16QAM	25	0	20.30	20.45	20.34	22
10	16QAM	25	12	20.38	20.48	20.25	
10	16QAM	25	25	20.38	20.17	20.23	
10	16QAM	50	0	20.08	20.09	20.19	
10	64QAM	1	0	20.33	20.45	20.36	22
10	64QAM	1	25	20.34	20.38	20.30	
10	64QAM	1	49	20.35	20.25	20.20	
10	64QAM	25	0	19.70	19.80	19.66	21
10	64QAM	25	12	19.78	19.82	19.67	
10	64QAM	25	25	19.53	19.55	19.52	
10	64QAM	50	0	19.46	19.61	19.58	
	Channel			19975	20175	20375	Tune-up limit (dBm)
	Frequency (MHz)			1712.5	1732.5	1752.5	
5	QPSK	1	0	22.27	22.38	22.35	24
5	QPSK	1	12	22.19	22.26	22.23	
5	QPSK	1	24	22.14	22.29	22.25	
5	QPSK	12	0	21.28	21.34	21.30	23
5	QPSK	12	7	21.10	21.22	21.11	
5	QPSK	12	13	21.15	21.18	21.15	
5	QPSK	25	0	21.19	21.23	21.14	
5	16QAM	1	0	21.40	21.35	21.32	23
5	16QAM	1	12	21.20	21.34	21.25	
5	16QAM	1	24	21.25	21.27	21.16	
5	16QAM	12	0	20.22	20.37	20.26	22
5	16QAM	12	7	20.30	20.40	20.17	
5	16QAM	12	13	20.30	20.09	20.15	
5	16QAM	25	0	20.00	20.01	20.11	
5	64QAM	1	0	20.25	20.37	20.28	22
5	64QAM	1	12	20.26	20.30	20.22	
5	64QAM	1	24	20.27	20.17	20.12	
5	64QAM	12	0	19.62	19.72	19.58	21
5	64QAM	12	7	19.70	19.74	19.59	
5	64QAM	12	13	19.45	19.47	19.44	
5	64QAM	25	0	19.38	19.53	19.50	
	Channel			19965	20175	20385	Tune-up limit (dBm)
	Frequency (MHz)			1711.5	1732.5	1753.5	
3	QPSK	1	0	22.20	22.31	22.28	24
3	QPSK	1	8	22.12	22.19	22.16	
3	QPSK	1	14	22.07	22.22	22.18	
3	QPSK	8	0	21.21	21.27	21.23	23
3	QPSK	8	4	21.03	21.15	21.04	
3	QPSK	8	7	21.08	21.11	21.08	
3	QPSK	15	0	21.12	21.16	21.07	
3	16QAM	1	0	21.33	21.28	21.25	23
3	16QAM	1	8	21.13	21.27	21.18	
3	16QAM	1	14	21.18	21.20	21.09	
3	16QAM	8	0	20.15	20.30	20.19	22
3	16QAM	8	4	20.23	20.33	20.10	
3	16QAM	8	7	20.23	20.02	20.08	
3	16QAM	15	0	19.93	19.94	20.04	

Left table

							Tune-up limit (dBm)
3	64QAM	1	0	20.45	20.46	20.26	22
3	64QAM	1	8	20.15	20.43	20.11	
3	64QAM	1	14	20.14	20.14	20.22	
3	64QAM	8	0	19.78	19.82	19.65	21
3	64QAM	8	4	19.60	19.70	19.53	
3	64QAM	8	7	19.58	19.73	19.51	
3	64QAM	15	0	19.50	19.61	19.62	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.36	22.43	22.38	24
1.4	QPSK	1	3	22.31	22.41	22.13	
1.4	QPSK	1	5	22.21	22.27	22.25	
1.4	QPSK	3	0	21.25	21.46	21.27	
1.4	QPSK	3	1	21.33	21.26	21.32	
1.4	QPSK	3	3	21.27	21.28	21.24	
1.4	QPSK	6	0	21.28	21.27	21.06	23
1.4	16QAM	1	0	21.50	21.50	21.38	23
1.4	16QAM	1	3	21.42	21.29	21.29	
1.4	16QAM	1	5	21.19	21.28	21.24	
1.4	16QAM	3	0	20.35	20.47	20.31	
1.4	16QAM	3	1	20.34	20.36	20.25	
1.4	16QAM	3	3	20.34	20.31	20.34	
1.4	16QAM	6	0	20.28	20.15	20.08	22
1.4	64QAM	1	0	20.43	20.54	20.39	22
1.4	64QAM	1	3	20.24	20.25	20.24	
1.4	64QAM	1	5	20.23	20.33	20.19	
1.4	64QAM	3	0	19.75	19.72	19.54	
1.4	64QAM	3	1	19.72	19.58	19.67	
1.4	64QAM	3	3	19.54	19.73	19.67	
1.4	64QAM	6	0	19.61	19.45	19.65	21

Right table

							Tune-up limit (dBm)
3	64QAM	1	0	20.18	20.30	20.21	22
3	64QAM	1	8	20.19	20.23	20.15	
3	64QAM	1	14	20.20	20.10	20.05	
3	64QAM	8	0	19.55	19.65	19.51	21
3	64QAM	8	4	19.63	19.67	19.52	
3	64QAM	8	7	19.38	19.40	19.37	
3	64QAM	15	0	19.31	19.46	19.43	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.06	22.17	22.14	24
1.4	QPSK	1	3	21.98	22.05	22.02	
1.4	QPSK	1	5	21.93	22.08	22.04	
1.4	QPSK	3	0	21.07	21.13	21.09	
1.4	QPSK	3	1	20.89	21.01	20.90	
1.4	QPSK	3	3	20.94	20.97	20.94	
1.4	QPSK	6	0	20.98	21.02	20.93	23
1.4	16QAM	1	0	21.19	21.14	21.11	23
1.4	16QAM	1	3	20.99	21.13	21.04	
1.4	16QAM	1	5	21.04	21.06	20.95	
1.4	16QAM	3	0	20.01	20.16	20.05	
1.4	16QAM	3	1	20.09	20.19	19.96	
1.4	16QAM	3	3	20.09	19.88	19.94	
1.4	16QAM	6	0	19.79	19.80	19.90	22
1.4	64QAM	1	0	20.04	20.16	20.07	22
1.4	64QAM	1	3	20.05	20.09	20.01	
1.4	64QAM	1	5	20.06	19.96	19.91	
1.4	64QAM	3	0	19.41	19.51	19.37	
1.4	64QAM	3	1	19.49	19.53	19.38	
1.4	64QAM	3	3	19.24	19.26	19.23	
1.4	64QAM	6	0	19.17	19.32	19.29	21

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.67	22.78	22.65	
10	QPSK	1	25	22.64	22.66	22.51	24
10	QPSK	1	49	22.53	22.60	22.48	
10	QPSK	25	0	21.59	21.70	21.51	
10	QPSK	25	12	21.56	21.45	21.55	23
10	QPSK	25	25	21.53	21.52	21.45	
10	QPSK	50	0	21.45	21.54	21.50	
10	16QAM	1	0	21.75	21.87	21.56	
10	16QAM	1	25	21.59	21.51	21.50	23
10	16QAM	1	49	21.52	21.55	21.37	
10	16QAM	25	0	20.74	20.64	20.70	
10	16QAM	25	12	20.53	20.56	20.60	22
10	16QAM	25	25	20.50	20.42	20.38	
10	16QAM	50	0	20.33	20.32	20.50	
10	64QAM	1	0	20.66	20.76	20.47	
10	64QAM	1	25	20.41	20.45	20.48	22
10	64QAM	1	49	20.39	20.48	20.40	
10	64QAM	25	0	19.83	20.00	19.95	
10	64QAM	25	12	19.95	20.02	19.82	21
10	64QAM	25	25	19.77	19.94	19.79	
10	64QAM	50	0	19.74	19.76	19.71	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.49	22.60	22.47	
5	QPSK	1	12	22.46	22.48	22.33	24
5	QPSK	1	24	22.35	22.42	22.30	
5	QPSK	12	0	21.41	21.52	21.33	
5	QPSK	12	7	21.38	21.27	21.37	23
5	QPSK	12	13	21.35	21.34	21.27	
5	QPSK	25	0	21.27	21.36	21.32	
5	16QAM	1	0	21.57	21.69	21.38	
5	16QAM	1	12	21.41	21.33	21.32	23
5	16QAM	1	24	21.34	21.37	21.19	
5	16QAM	12	0	20.56	20.46	20.52	
5	16QAM	12	7	20.35	20.38	20.42	22
5	16QAM	12	13	20.32	20.24	20.20	
5	16QAM	25	0	20.15	20.14	20.32	
5	64QAM	1	0	20.48	20.58	20.29	
5	64QAM	1	12	20.23	20.27	20.30	22
5	64QAM	1	24	20.21	20.30	20.22	
5	64QAM	12	0	19.65	19.82	19.77	
5	64QAM	12	7	19.77	19.84	19.64	21
5	64QAM	12	13	19.59	19.76	19.61	
5	64QAM	25	0	19.56	19.58	19.53	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.40	22.51	22.38	
3	QPSK	1	8	22.37	22.39	22.24	24
3	QPSK	1	14	22.26	22.33	22.21	
3	QPSK	8	0	21.32	21.43	21.24	
3	QPSK	8	4	21.29	21.18	21.28	23
3	QPSK	8	7	21.26	21.25	21.18	
3	QPSK	15	0	21.18	21.27	21.23	
3	16QAM	1	0	21.48	21.60	21.29	
3	16QAM	1	8	21.32	21.24	21.23	23
3	16QAM	1	14	21.25	21.28	21.10	
3	16QAM	8	0	20.47	20.37	20.43	
3	16QAM	8	4	20.26	20.29	20.33	22
3	16QAM	8	7	20.23	20.15	20.11	
3	16QAM	15	0	20.06	20.05	20.23	
3	64QAM	1	0	20.39	20.49	20.20	
3	64QAM	1	8	20.14	20.18	20.21	22
3	64QAM	1	14	20.12	20.21	20.13	
3	64QAM	8	0	19.56	19.73	19.68	
3	64QAM	8	4	19.68	19.75	19.55	21
3	64QAM	8	7	19.50	19.67	19.52	
3	64QAM	15	0	19.47	19.49	19.44	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.22	22.33	22.20	
1.4	QPSK	1	3	22.19	22.21	22.06	
1.4	QPSK	1	5	22.08	22.15	22.03	24
1.4	QPSK	3	0	22.08	22.03	22.00	
1.4	QPSK	3	1	22.05	22.02	22.04	
1.4	QPSK	3	3	22.02	22.01	22.02	
1.4	QPSK	6	0	21.00	21.09	21.05	23
1.4	16QAM	1	0	21.30	21.42	21.11	
1.4	16QAM	1	3	21.14	21.06	21.05	23
1.4	16QAM	1	5	21.23	21.26	21.08	
1.4	16QAM	3	0	21.27	21.17	21.23	
1.4	16QAM	3	1	21.06	21.09	21.13	
1.4	16QAM	3	3	21.03	21.00	21.03	
1.4	16QAM	6	0	20.04	20.03	20.21	22
1.4	64QAM	1	0	20.21	20.31	20.02	
1.4	64QAM	1	3	20.46	20.00	20.03	
1.4	64QAM	1	5	20.44	20.03	20.45	22
1.4	64QAM	3	0	20.30	20.05	20.00	
1.4	64QAM	3	1	20.00	20.07	20.00	
1.4	64QAM	3	3	20.00	20.10	20.05	
1.4	64QAM	6	0	19.29	19.31	19.26	21
1.4	256QAM	1	0				
1.4	256QAM	1	3				
1.4	256QAM	1	5				19
1.4	256QAM	3	0				
1.4	256QAM	3	1				
1.4	256QAM	3	3				
1.4	256QAM	6	0				19

Band 7 (2600MHz Band) (dBm) Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.92	22.98	22.95	
20	QPSK	1	49	22.85	22.86	22.79	24
20	QPSK	1	99	22.69	22.80	22.68	
20	QPSK	50	0	22.02	22.03	22.02	
20	QPSK	50	24	21.92	21.84	21.93	23
20	QPSK	50	50	21.95	21.97	21.86	
20	QPSK	100	0	21.83	21.87	21.80	
20	16QAM	1	0	22.03	22.09	21.89	
20	16QAM	1	49	22.07	21.83	21.83	23
20	16QAM	1	99	21.94	21.86	21.80	
20	16QAM	50	0	20.95	21.02	20.85	
20	16QAM	50	24	20.85	20.92	20.89	22
20	16QAM	50	50	20.80	20.78	20.72	
20	16QAM	100	0	20.87	20.84	20.80	
20	64QAM	1	0	20.94	20.97	20.84	
20	64QAM	1	49	20.85	21.02	20.75	22
20	64QAM	1	99	20.94	20.77	20.82	
20	64QAM	50	0	20.32	20.45	20.24	
20	64QAM	50	24	20.37	20.40	20.19	21
20	64QAM	50	50	20.10	20.31	20.19	
20	64QAM	100	0	20.12	20.09	20.22	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.90	22.96	22.93	
15	QPSK	1	37	22.83	22.84	22.77	24
15	QPSK	1	74	22.67	22.78	22.66	
15	QPSK	36	0	22.00	22.01	22.00	
15	QPSK	36	20	21.90	21.82	21.91	23
15	QPSK	36	39	21.93	21.95	21.84	
15	QPSK	75	0	21.81	21.85	21.78	
15	16QAM	1	0	22.01	22.07	21.87	
15	16QAM	1	37	22.05	21.81	21.81	23
15	16QAM	1	74	21.92	21.84	21.78	
15	16QAM	36	0	20.93	21.00	20.83	
15	16QAM	36	20	20.83	20.90	20.87	22
15	16QAM	36	39	20.78	20.76	20.70	
15	16QAM	75	0	20.85	20.82	20.78	
15	64QAM	1	0	20.92	20.95	20.82	
15	64QAM	1	37	20.83	21.00	20.73	22
15	64QAM	1	74	20.92	20.75	20.80	
15	64QAM	36	0	20.30	20.43	20.22	
15	64QAM	36	20	20.35	20.38	20.17	21
15	64QAM	36	39	20.08	20.29	20.17	
15	64QAM	75	0	20.10	20.07	20.20	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.88	22.94	22.91	
10	QPSK	1	25	22.81	22.82	22.75	24
10	QPSK	1	49	22.65	22.76	22.64	
10	QPSK	25	0	21.98	21.99	21.98	
10	QPSK	25	12	21.88	21.80	21.89	23
10	QPSK	25	25	21.91	21.93	21.82	
10	QPSK	50	0	21.79	21.83	21.76	
10	16QAM	1	0	21.99	22.05	21.85	
10	16QAM	1	25	22.03	21.79	21.79	23
10	16QAM	1	49	21.90	21.82	21.76	
10	16QAM	25	0	20.91	20.98	20.81	
10	16QAM	25	12	20.81	20.88	20.85	22
10	16QAM	25	25	20.76	20.74	20.68	
10	16QAM	50	0	20.83	20.80	20.76	
10	64QAM	1	0	20.90	20.93	20.80	
10	64QAM	1	25	20.81	20.98	20.71	22
10	64QAM	1	49	20.90	20.73	20.78	
10	64QAM	25	0	20.28	20.41	20.20	
10	64QAM	25	12	20.33	20.36	20.15	21
10	64QAM	25	25	20.06	20.27	20.15	
10	64QAM	50	0	20.08	20.05	20.18	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.83	22.89	22.86	
5	QPSK	1	12	22.76	22.77	22.70	24
5	QPSK	1	24	22.60	22.71	22.59	
5	QPSK	12	0	21.93	21.94	21.93	
5	QPSK	12	7	21.83	21.75	21.84	23
5	QPSK	12	13	21.86	21.88	21.77	
5	QPSK	25	0	21.74	21.78	21.71	
5	16QAM	1	0	21.94	22.00	21.80	
5	16QAM	1	12	21.98	21.74	21.74	23
5	16QAM	1	24	21.85	21.77	21.71	
5	16QAM	12	0	20.86	20.93	20.76	
5	16QAM	12	7	20.76	20.83	20.80	22
5	16QAM	12	13	20.71	20.69	20.63	
5	16QAM	25	0	20.78	20.75	20.71	
5	64QAM	1	0	20.85	20.88	20.75	
5	64QAM	1	12	20.76	20.93	20.66	22
5	64QAM	1	24	20.85	20.68	20.73	
5	64QAM	12	0	20.23	20.36	20.15	
5	64QAM	12	7	20.28	20.31	20.10	21
5	64QAM	12	13	20.01	20.22	20.10	
5	64QAM	25	0	20.03	20.00	20.13	
5	256QAM	1	0				
5	256QAM	1	12				
5	256QAM	1	24				19
5	256QAM	12	0				
5	256QAM	12	7				
5	256QAM	12	13				19
5	256QAM	25	0				

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	22.80	22.89	22.87	24
10	QPSK	1	25	22.73	22.70	22.69	24
10	QPSK	1	49	22.67	22.74	22.62	
10	QPSK	25	0	21.78	21.84	21.75	23
10	QPSK	25	12	21.72	21.64	21.73	23
10	QPSK	25	25	21.57	21.77	21.66	
10	QPSK	50	0	21.63	21.67	21.60	
10	16QAM	1	0	21.83	21.89	21.69	23
10	16QAM	1	25	21.87	21.63	21.63	23
10	16QAM	1	49	21.74	21.66	21.60	
10	16QAM	25	0	20.75	20.82	20.65	22
10	16QAM	25	12	20.65	20.72	20.69	22
10	16QAM	25	25	20.60	20.58	20.52	
10	16QAM	50	0	20.67	20.64	20.60	
10	64QAM	1	0	20.74	20.77	20.64	22
10	64QAM	1	25	20.65	20.82	20.55	22
10	64QAM	1	49	20.74	20.57	20.62	
10	64QAM	25	0	20.12	20.25	20.04	21
10	64QAM	25	12	20.17	20.20	19.99	21
10	64QAM	25	25	19.90	20.11	19.99	
10	64QAM	50	0	19.92	19.89	20.02	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.54	22.63	22.61	24
5	QPSK	1	12	22.47	22.44	22.43	24
5	QPSK	1	24	22.41	22.48	22.36	
5	QPSK	12	0	21.52	21.58	21.49	23
5	QPSK	12	7	21.46	21.38	21.47	23
5	QPSK	12	13	21.31	21.51	21.40	
5	QPSK	25	0	21.37	21.41	21.34	
5	16QAM	1	0	21.57	21.63	21.43	23
5	16QAM	1	12	21.61	21.37	21.37	23
5	16QAM	1	24	21.48	21.40	21.34	
5	16QAM	12	0	20.49	20.56	20.39	22
5	16QAM	12	7	20.39	20.46	20.43	22
5	16QAM	12	13	20.34	20.32	20.26	
5	16QAM	25	0	20.41	20.38	20.34	
5	64QAM	1	0	20.48	20.51	20.38	22
5	64QAM	1	12	20.39	20.56	20.29	22
5	64QAM	1	24	20.48	20.31	20.36	
5	64QAM	12	0	19.86	19.99	19.78	21
5	64QAM	12	7	19.91	19.94	19.73	21
5	64QAM	12	13	19.64	19.85	19.73	
5	64QAM	25	0	19.66	19.63	19.76	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.45	22.54	22.52	24
3	QPSK	1	8	22.38	22.35	22.34	24
3	QPSK	1	14	22.32	22.39	22.27	
3	QPSK	8	0	21.43	21.49	21.40	23
3	QPSK	8	4	21.37	21.29	21.38	23
3	QPSK	8	7	21.22	21.42	21.31	
3	QPSK	15	0	21.28	21.32	21.25	
3	16QAM	1	0	21.48	21.54	21.34	23
3	16QAM	1	8	21.52	21.28	21.28	23
3	16QAM	1	14	21.39	21.31	21.25	
3	16QAM	8	0	20.40	20.47	20.30	22
3	16QAM	8	4	20.30	20.37	20.34	22
3	16QAM	8	7	20.25	20.23	20.17	
3	16QAM	15	0	20.32	20.29	20.25	
3	64QAM	1	0	20.39	20.42	20.29	22
3	64QAM	1	8	20.30	20.47	20.20	22
3	64QAM	1	14	20.39	20.22	20.27	
3	64QAM	8	0	19.77	19.90	19.69	21
3	64QAM	8	4	19.82	19.85	19.64	21
3	64QAM	8	7	19.55	19.76	19.64	
3	64QAM	15	0	19.57	19.54	19.67	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.36	22.45	22.43	24
1.4	QPSK	1	3	22.29	22.26	22.25	24
1.4	QPSK	1	5	22.23	22.30	22.18	
1.4	QPSK	3	0	21.34	21.40	21.31	
1.4	QPSK	3	1	21.28	21.20	21.29	
1.4	QPSK	3	3	21.13	21.33	21.22	
1.4	QPSK	6	0	21.19	21.23	21.16	23
1.4	16QAM	1	0	21.39	21.45	21.25	23
1.4	16QAM	1	3	21.43	21.19	21.19	23
1.4	16QAM	1	5	21.30	21.22	21.16	
1.4	16QAM	3	0	20.31	20.38	20.21	
1.4	16QAM	3	1	20.21	20.28	20.25	
1.4	16QAM	3	3	20.16	20.14	20.08	
1.4	16QAM	6	0	20.23	20.20	20.16	22
1.4	64QAM	1	0	20.30	20.33	20.20	22
1.4	64QAM	1	3	20.21	20.38	20.11	22
1.4	64QAM	1	5	20.30	20.13	20.18	
1.4	64QAM	3	0	19.68	19.81	19.60	
1.4	64QAM	3	1	19.73	19.76	19.55	
1.4	64QAM	3	3	19.46	19.67	19.55	
1.4	64QAM	6	0	19.48	19.45	19.58	21
1.4	256QAM	1	0				
1.4	256QAM	1	3				
1.4	256QAM	1	5				19
1.4	256QAM	3	0				
1.4	256QAM	3	1				
1.4	256QAM	3	3				
1.4	256QAM	6	0				19

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		22.94		24
10	QPSK	1	25		22.78		
10	QPSK	1	49		22.82		
10	QPSK	25	0		21.92		23
10	QPSK	25	12		21.72		
10	QPSK	25	25		21.85		
10	QPSK	50	0		21.75		
10	16QAM	1	0		21.97		23
10	16QAM	1	25		21.71		
10	16QAM	1	49		21.74		
10	16QAM	25	0		20.90		22
10	16QAM	25	12		20.80		
10	16QAM	25	25		20.66		
10	16QAM	50	0		20.72		
10	64QAM	1	0		20.85		22
10	64QAM	1	25		20.90		
10	64QAM	1	49		20.65		
10	64QAM	25	0		20.33		21
10	64QAM	25	12		20.28		
10	64QAM	25	25		20.19		
10	64QAM	50	0		19.97		
			Channel	23205	23230	23255	Tune-up limit (dBm)
			Frequency (MHz)	779.5	782	784.5	
5	QPSK	1	0	22.68	22.77	22.75	24
5	QPSK	1	12	22.61	22.58	22.57	
5	QPSK	1	24	22.55	22.62	22.50	
5	QPSK	12	0	21.66	21.72	21.63	23
5	QPSK	12	7	21.60	21.52	21.61	
5	QPSK	12	13	21.45	21.65	21.54	
5	QPSK	25	0	21.51	21.55	21.48	
5	16QAM	1	0	21.71	21.77	21.57	23
5	16QAM	1	12	21.75	21.51	21.51	
5	16QAM	1	24	21.62	21.54	21.48	
5	16QAM	12	0	20.63	20.70	20.53	22
5	16QAM	12	7	20.53	20.60	20.57	
5	16QAM	12	13	20.48	20.46	20.40	
5	16QAM	25	0	20.55	20.52	20.48	
5	64QAM	1	0	20.62	20.65	20.52	22
5	64QAM	1	12	20.53	20.70	20.43	
5	64QAM	1	24	20.62	20.45	20.50	
5	64QAM	12	0	20.00	20.13	19.92	21
5	64QAM	12	7	20.05	20.08	19.87	
5	64QAM	12	13	19.78	19.99	19.87	
5	64QAM	25	0	19.80	19.77	19.90	

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	22.76	22.79	22.64	24
10	QPSK	1	25	22.72	22.73	22.57	
10	QPSK	1	49	22.66	22.68	22.53	
10	QPSK	25	0	21.53	21.62	21.50	23
10	QPSK	25	12	21.47	21.58	21.43	
10	QPSK	25	25	21.41	21.56	21.44	
10	QPSK	50	0	21.53	21.57	21.52	
10	16QAM	1	0	21.64	21.77	21.71	23
10	16QAM	1	25	21.64	21.65	21.57	
10	16QAM	1	49	21.64	21.68	21.46	
10	16QAM	25	0	20.72	20.75	20.65	22
10	16QAM	25	12	20.55	20.67	20.73	
10	16QAM	25	25	20.69	20.64	20.54	
10	16QAM	50	0	20.45	20.59	20.53	
10	64QAM	1	0	20.58	20.68	20.72	22
10	64QAM	1	25	20.46	20.73	20.42	
10	64QAM	1	49	20.50	20.57	20.51	
10	64QAM	25	0	20.06	20.16	20.02	21
10	64QAM	25	12	19.87	19.97	19.84	
10	64QAM	25	25	19.87	19.88	20.01	
10	64QAM	50	0	19.97	19.82	19.94	
			Channel	23755	23790	23825	Tune-up limit (dBm)
			Frequency (MHz)	706.5	710	713.5	
5	QPSK	1	0	22.56	22.59	22.44	24
5	QPSK	1	12	22.52	22.53	22.37	
5	QPSK	1	24	22.46	22.48	22.33	
5	QPSK	12	0	21.33	21.42	21.30	23
5	QPSK	12	7	21.27	21.38	21.23	
5	QPSK	12	13	21.21	21.36	21.24	
5	QPSK	25	0	21.33	21.37	21.32	
5	16QAM	1	0	21.44	21.57	21.51	23
5	16QAM	1	12	21.44	21.45	21.37	
5	16QAM	1	24	21.44	21.48	21.26	
5	16QAM	12	0	20.52	20.55	20.45	22
5	16QAM	12	7	20.35	20.47	20.53	
5	16QAM	12	13	20.49	20.44	20.34	
5	16QAM	25	0	20.25	20.39	20.33	
5	64QAM	1	0	20.38	20.48	20.52	22
5	64QAM	1	12	20.26	20.53	20.22	
5	64QAM	1	24	20.30	20.37	20.31	
5	64QAM	12	0	19.86	19.96	19.82	21
5	64QAM	12	7	19.67	19.77	19.64	
5	64QAM	12	13	19.67	19.68	19.81	
5	64QAM	25	0	19.77	19.62	19.74	

Band 66 (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.77	22.79	22.65	
20	QPSK	1	49	22.62	22.67	22.49	24
20	QPSK	1	99	22.54	22.60	22.53	
20	QPSK	50	0	21.55	21.58	21.52	
20	QPSK	50	24	21.44	21.48	21.37	23
20	QPSK	50	50	21.30	21.41	21.32	
20	QPSK	100	0	21.52	21.56	21.41	
20	16QAM	1	0	21.71	21.74	21.56	
20	16QAM	1	49	21.51	21.68	21.49	23
20	16QAM	1	99	21.42	21.63	21.37	
20	16QAM	50	0	20.61	20.75	20.72	
20	16QAM	50	24	20.59	20.63	20.65	22
20	16QAM	50	50	20.45	20.42	20.46	
20	16QAM	100	0	20.42	20.36	20.36	
20	64QAM	1	0	20.55	20.71	20.64	
20	64QAM	1	49	20.43	20.65	20.42	22
20	64QAM	1	99	20.44	20.51	20.35	
20	64QAM	50	0	19.99	19.92	19.98	
20	64QAM	50	24	19.94	19.82	19.91	21
20	64QAM	50	50	19.81	19.86	19.85	
20	64QAM	100	0	19.73	19.72	19.85	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.69	22.71	22.57	
15	QPSK	1	37	22.54	22.59	22.41	24
15	QPSK	1	74	22.46	22.52	22.45	
15	QPSK	36	0	21.47	21.50	21.44	
15	QPSK	36	20	21.36	21.40	21.29	23
15	QPSK	36	39	21.22	21.33	21.24	
15	QPSK	75	0	21.44	21.48	21.33	
15	16QAM	1	0	21.63	21.66	21.48	
15	16QAM	1	37	21.43	21.60	21.41	23
15	16QAM	1	74	21.34	21.55	21.29	
15	16QAM	36	0	20.53	20.67	20.64	
15	16QAM	36	20	20.51	20.55	20.57	22
15	16QAM	36	39	20.37	20.34	20.38	
15	16QAM	75	0	20.34	20.28	20.28	
15	64QAM	1	0	20.47	20.63	20.56	
15	64QAM	1	37	20.35	20.57	20.34	22
15	64QAM	1	74	20.36	20.43	20.27	
15	64QAM	36	0	19.91	19.84	19.90	
15	64QAM	36	20	19.86	19.74	19.83	21
15	64QAM	36	39	19.73	19.78	19.77	
15	64QAM	75	0	19.65	19.64	19.77	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.61	22.63	22.49	
10	QPSK	1	25	22.46	22.51	22.33	24
10	QPSK	1	49	22.38	22.44	22.37	
10	QPSK	25	0	21.39	21.42	21.36	
10	QPSK	25	12	21.28	21.32	21.21	23
10	QPSK	25	25	21.14	21.25	21.16	
10	QPSK	50	0	21.36	21.40	21.25	
10	16QAM	1	0	21.55	21.58	21.40	
10	16QAM	1	25	21.35	21.52	21.33	23
10	16QAM	1	49	21.26	21.47	21.21	
10	16QAM	25	0	20.45	20.59	20.56	
10	16QAM	25	12	20.43	20.47	20.49	22
10	16QAM	25	25	20.29	20.26	20.30	
10	16QAM	50	0	20.26	20.20	20.20	
10	64QAM	1	0	20.39	20.55	20.48	
10	64QAM	1	25	20.27	20.49	20.26	22
10	64QAM	1	49	20.28	20.35	20.19	
10	64QAM	25	0	19.83	19.76	19.82	
10	64QAM	25	12	19.78	19.66	19.75	21
10	64QAM	25	25	19.65	19.70	19.69	
10	64QAM	50	0	19.57	19.56	19.69	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.52	22.54	22.40	
5	QPSK	1	12	22.37	22.42	22.24	24
5	QPSK	1	24	22.29	22.35	22.28	
5	QPSK	12	0	21.30	21.33	21.27	
5	QPSK	12	7	21.19	21.23	21.12	23
5	QPSK	12	13	21.05	21.16	21.07	
5	QPSK	25	0	21.27	21.31	21.16	
5	16QAM	1	0	21.46	21.49	21.31	
5	16QAM	1	12	21.26	21.43	21.24	23
5	16QAM	1	24	21.17	21.38	21.12	
5	16QAM	12	0	20.36	20.50	20.47	
5	16QAM	12	7	20.34	20.38	20.40	22
5	16QAM	12	13	20.20	20.17	20.21	
5	16QAM	25	0	20.17	20.11	20.11	
5	64QAM	1	0	20.30	20.46	20.39	
5	64QAM	1	12	20.18	20.40	20.17	22
5	64QAM	1	24	20.19	20.26	20.10	
5	64QAM	12	0	19.74	19.67	19.73	
5	64QAM	12	7	19.69	19.57	19.66	21
5	64QAM	12	13	19.56	19.61	19.60	
5	64QAM	25	0	19.48	19.47	19.60	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.43	22.45	22.31	
3	QPSK	1	8	22.28	22.33	22.15	24
3	QPSK	1	14	22.20	22.26	22.19	
3	QPSK	8	0	21.21	21.24	21.18	
3	QPSK	8	4	21.10	21.14	21.03	23
3	QPSK	8	7	21.35	21.07	21.37	
3	QPSK	15	0	21.18	21.22	21.07	
3	16QAM	1	0	21.37	21.40	21.22	
3	16QAM	1	8	21.17	21.34	21.15	23
3	16QAM	1	14	21.08	21.29	21.03	
3	16QAM	8	0	20.27	20.41	20.38	
3	16QAM	8	4	20.25	20.29	20.31	22
3	16QAM	8	7	20.11	20.08	20.12	
3	16QAM	15	0	20.08	20.02	20.02	

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	22.77	22.82	22.74	
20	QPSK	1	49	22.64	22.69	22.63	24
20	QPSK	1	99	22.62	22.71	22.59	
20	QPSK	50	0	21.65	21.71	21.68	
20	QPSK	50	24	21.63	21.67	21.67	23
20	QPSK	50	50	21.61	21.63	21.62	
20	QPSK	100	0	21.63	21.64	21.60	
20	16QAM	1	0	21.86	21.92	21.84	
20	16QAM	1	49	21.62	21.80	21.64	23
20	16QAM	1	99	21.62	21.73	21.61	
20	16QAM	50	0	20.72	20.88	20.67	
20	16QAM	50	24	20.79	20.78	20.75	22
20	16QAM	50	50	20.63	20.61	20.64	
20	16QAM	100	0	20.68	20.53	20.67	
20	64QAM	1	0	20.81	20.87	20.68	
20	64QAM	1	49	20.60	20.66	20.66	22
20	64QAM	1	99	20.61	20.77	20.62	
20	64QAM	50	0	20.01	20.27	20.15	
20	64QAM	50	24	19.95	20.00	20.07	21
20	64QAM	50	50	19.98	19.93	19.98	
20	64QAM	100	0	19.97	19.79	20.06	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.68	22.73	22.65	
15	QPSK	1	37	22.55	22.60	22.54	24
15	QPSK	1	74	22.53	22.62	22.50	
15	QPSK	36	0	21.56	21.62	21.59	
15	QPSK	36	20	21.54	21.58	21.58	23
15	QPSK	36	39	21.52	21.54	21.53	
15	QPSK	75	0	21.54	21.55	21.51	
15	16QAM	1	0	21.77	21.83	21.75	
15	16QAM	1	37	21.53	21.71	21.55	23
15	16QAM	1	74	21.53	21.64	21.52	
15	16QAM	36	0	20.63	20.79	20.58	
15	16QAM	36	20	20.70	20.69	20.66	22
15	16QAM	36	39	20.54	20.52	20.55	
15	16QAM	75	0	20.59	20.44	20.58	
15	64QAM	1	0	20.72	20.78	20.59	
15	64QAM	1	37	20.51	20.57	20.57	22
15	64QAM	1	74	20.52	20.68	20.53	
15	64QAM	36	0	19.92	20.18	20.06	
15	64QAM	36	20	19.86	19.91	19.98	21
15	64QAM	36	39	19.89	19.84	19.89	
15	64QAM	75	0	19.88	19.70	19.97	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.59	22.64	22.56	
10	QPSK	1	25	22.46	22.51	22.45	24
10	QPSK	1	49	22.44	22.53	22.41	
10	QPSK	25	0	21.47	21.53	21.50	
10	QPSK	25	12	21.45	21.49	21.49	23
10	QPSK	25	25	21.43	21.45	21.44	
10	QPSK	50	0	21.45	21.46	21.42	
10	16QAM	1	0	21.68	21.74	21.66	
10	16QAM	1	25	21.44	21.62	21.46	23
10	16QAM	1	49	21.44	21.55	21.43	
10	16QAM	25	0	20.54	20.70	20.49	
10	16QAM	25	12	20.61	20.60	20.57	22
10	16QAM	25	25	20.45	20.43	20.46	
10	16QAM	50	0	20.50	20.35	20.49	
10	64QAM	1	0	20.63	20.69	20.50	
10	64QAM	1	25	20.42	20.48	20.48	22
10	64QAM	1	49	20.43	20.59	20.44	
10	64QAM	25	0	19.83	20.09	19.97	
10	64QAM	25	12	19.77	19.82	19.89	21
10	64QAM	25	25	19.80	19.75	19.80	
10	64QAM	50	0	19.79	19.61	19.88	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.50	22.55	22.47	
5	QPSK	1	12	22.37	22.42	22.36	24
5	QPSK	1	24	22.35	22.44	22.32	
5	QPSK	12	0	21.38	21.44	21.41	
5	QPSK	12	7	21.36	21.40	21.40	23
5	QPSK	12	13	21.34	21.36	21.35	
5	QPSK	25	0	21.36	21.37	21.33	
5	16QAM	1	0	21.59	21.65	21.57	
5	16QAM	1	12	21.35	21.53	21.37	23
5	16QAM	1	24	21.35	21.46	21.34	
5	16QAM	12	0	20.45	20.61	20.40	
5	16QAM	12	7	20.52	20.51	20.48	22
5	16QAM	12	13	20.36	20.34	20.37	
5	16QAM	25	0	20.41	20.26	20.40	
5	64QAM	1	0	20.54	20.60	20.41	
5	64QAM	1	12	20.33	20.39	20.39	22
5	64QAM	1	24	20.34	20.50	20.35	
5	64QAM	12	0	19.74	20.00	19.88	
5	64QAM	12	7	19.68	19.73	19.80	21
5	64QAM	12	13	19.71	19.66	19.71	
5	64QAM	25	0	19.70	19.52	19.79	

							Tune-up limit (dBm)
3	64QAM	1	0	20.21	20.37	20.30	22
3	64QAM	1	8	20.09	20.31	20.08	
3	64QAM	1	14	20.10	20.17	20.01	
3	64QAM	8	0	19.65	19.58	19.64	21
3	64QAM	8	4	19.60	19.48	19.57	
3	64QAM	8	7	19.47	19.52	19.51	
3	64QAM	15	0	19.39	19.38	19.51	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.34	22.36	22.22	24
1.4	QPSK	1	3	22.19	22.24	22.06	
1.4	QPSK	1	5	22.11	22.17	22.10	
1.4	QPSK	3	0	22.29	22.32	22.26	
1.4	QPSK	3	1	22.18	22.22	22.11	
1.4	QPSK	3	3	22.04	22.15	22.06	
1.4	QPSK	6	0	21.48	21.52	21.37	23
1.4	16QAM	1	0	21.67	21.70	21.52	23
1.4	16QAM	1	3	21.47	21.64	21.45	
1.4	16QAM	1	5	21.38	21.59	21.33	
1.4	16QAM	3	0	21.35	21.49	21.46	
1.4	16QAM	3	1	21.33	21.37	21.39	
1.4	16QAM	3	3	21.19	21.16	21.20	
1.4	16QAM	6	0	20.38	20.32	20.32	22
1.4	64QAM	1	0	20.51	20.67	20.60	22
1.4	64QAM	1	3	20.39	20.61	20.38	
1.4	64QAM	1	5	20.40	20.47	20.31	
1.4	64QAM	3	0	20.34	20.27	20.33	
1.4	64QAM	3	1	20.29	20.17	20.26	
1.4	64QAM	3	3	20.16	20.21	20.20	
1.4	64QAM	6	0	19.30	19.29	19.42	21

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	17.47	18.00	default	99.57
		CH 6	2437	17.35	18.00	default	
		CH 11	2462	17.26	18.00	default	
	802.11g 6Mbps	CH 1	2412	15.30	16.00	default	97.08
		CH 6	2437	15.10	15.50	default	
		CH 11	2462	14.81	15.50	default	
	802.11n-HT20 MCS0	CH 1	2412	15.11	15.50	default	96.88
		CH 6	2437	14.98	15.50	default	
		CH 11	2462	14.72	15.50	default	

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	15.94	16.50	default	97.22
		CH 44	5220	15.64	16.00	default	
		CH 48	5240	15.75	16.50	default	
	802.11n-HT20 MCS0	CH 36	5180	15.81	16.50	default	97.01
		CH 44	5220	15.77	16.50	default	
		CH 48	5240	15.74	16.50	default	
	802.11n-HT40 MCS0	CH 38	5190	16.04	16.50	default	94.12
		CH 46	5230	15.70	16.50	default	
	802.11ac-VHT20 MCS0	CH 36	5180	15.80	16.50	default	97.06
		CH 44	5220	15.74	16.50	default	
		CH 48	5240	15.65	16.00	default	
	802.11ac-VHT40 MCS0	CH 38	5190	15.67	16.00	default	94.29
		CH 46	5230	15.65	16.00	default	
	802.11ac-VHT80 MCS0	CH 42	5210	15.93	16.50	default	89.47

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	16.08	16.50	default	97.22
		CH 60	5300	15.74	16.50	default	
		CH 64	5320	15.46	16.00	default	
	802.11n-HT20 MCS0	CH 52	5260	15.84	16.50	default	97.01
		CH 60	5300	15.71	16.50	default	
		CH 64	5320	15.58	16.00	default	
	802.11n-HT40 MCS0	CH 54	5270	15.61	16.00	default	94.12
		CH 62	5310	15.55	16.00	default	
	802.11ac-VHT20 MCS0	CH 52	5260	15.84	16.50	default	97.06
		CH 60	5300	15.64	16.00	default	
		CH 64	5320	15.51	16.00	default	
	802.11ac-VHT40 MCS0	CH 54	5270	15.76	16.50	default	94.29
		CH 62	5310	15.50	16.00	default	
	802.11ac-VHT80 MCS0	CH 58	5290	15.67	16.00	default	89.47

5GHzWLAN 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	15.92	16.50	default	97.22
		CH 116	5580	15.57	16.00	default	
		CH 140	5700	16.03	16.50	default	
	802.11n-HT20 MCS0	CH 100	5500	16.06	16.50	default	97.01
		CH 116	5580	15.95	16.50	default	
		CH 140	5700	16.02	16.50	default	
	802.11n-HT40 MCS0	CH 102	5510	15.91	16.50	default	94.12
		CH 110	5550	15.94	16.50	default	
		CH 134	5670	15.86	16.50	default	
	802.11ac-VHT20 MCS0	CH 100	5500	16.00	16.50	default	97.06
		CH 116	5580	15.87	16.50	default	
		CH 140	5700	15.95	16.50	default	
	802.11ac-VHT40 MCS0	CH 102	5510	15.85	16.50	default	94.29
		CH 110	5550	15.86	16.50	default	
		CH 134	5670	15.79	16.50	default	
	802.11ac-VHT80 MCS0	CH 106	5530	15.97	16.50	default	89.47
		CH 122	5610	15.89	16.50	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	15.63	16.00	default	97.22
		CH 157	5785	15.60	16.00	default	
		CH 165	5825	15.31	16.00	default	
	802.11n-HT20 MCS0	CH 149	5745	15.65	16.00	default	97.01
		CH 157	5785	15.68	16.00	default	
		CH 165	5825	15.44	16.00	default	
	802.11n-HT40 MCS0	CH 151	5755	15.54	16.00	default	94.12
		CH 159	5795	15.64	16.00	default	
	802.11ac-VHT20 MCS0	CH 149	5745	15.52	16.00	default	97.06
		CH 157	5785	15.60	16.00	default	
		CH 165	5825	15.26	16.00	default	
	802.11ac-VHT40 MCS0	CH 151	5755	15.74	16.50	default	94.29
		CH 159	5795	15.59	16.00	default	
	802.11ac-VHT80 MCS0	CH 155	5775	15.65	16.00	default	89.47

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	9.08	9.50	6.06	6.50	5.95	6.50
	CH 39	2441	9.24	9.50	5.50	6.00	5.68	6.00
	CH 78	2480	9.36	9.50	6.82	7.50	6.79	7.50
Duty Cycle %			76.91		76.99		77.04	

Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1M	Tune-up Limit	2M	Tune-up Limit
LE	CH 00	2402	-3.47	0.00	-4.91	0.00
	CH 19	2440	-2.70	0.00	-4.41	0.00
	CH 39	2480	-3.18	0.00	-4.63	0.00
Duty Cycle %			85.12	default	57.17	default

Reduced Power Level 1

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	21.45	21.58	21.51	23.30	12.45	12.58	12.51	14.30
GPRS 1 Tx slot	21.60	21.63	21.59	23.30	12.60	12.63	12.59	14.30
GPRS 2 Tx slots	20.54	20.67	20.49	21.30	14.54	14.67	14.49	15.30
GPRS 3 Tx slots	18.48	18.53	18.50	19.30	14.22	14.27	14.24	15.04
GPRS 4 Tx slots	17.55	17.49	17.36	18.30	14.55	14.49	14.36	15.30
EDGE 1 Tx slot	17.39	17.38	17.24	18.30	8.39	8.38	8.24	9.30
EDGE 2 Tx slots	16.43	16.33	16.39	17.30	10.43	10.33	10.39	11.30
EDGE 3 Tx slots	14.86	14.72	14.70	15.30	10.60	10.46	10.44	11.04
EDGE 4 Tx slots	13.79	13.84	13.75	14.30	10.79	10.84	10.75	11.30
Mode		Max.	21.63			Max.	14.67	
Attenuator	Cable Loss :							
Date	7/9							

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	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	14.70	14.77	14.58	15.70	14.82	14.85	14.74	15.80
3GPP Rel 5	HSDPA Subtest-1	14.12	14.04	14.05	15.00	14.13	14.09	14.19	15.00
3GPP Rel 5	HSDPA Subtest-2	14.10	14.01	13.96	15.00	14.05	14.08	14.23	15.00
3GPP Rel 5	HSDPA Subtest-3	13.65	13.43	13.46	14.50	13.56	13.60	13.73	14.50
3GPP Rel 5	HSDPA Subtest-4	13.57	13.37	13.48	14.50	13.56	13.57	13.69	14.50
3GPP Rel 8	DC-HSDPA Subtest-1	14.07	14.04	14.08	15.00	14.12	14.10	14.14	15.00
3GPP Rel 8	DC-HSDPA Subtest-2	14.05	14.01	14.03	15.00	14.09	14.07	14.10	15.00
3GPP Rel 8	DC-HSDPA Subtest-3	13.56	13.45	13.52	14.00	13.63	13.57	13.54	14.50
3GPP Rel 8	DC-HSDPA Subtest-4	13.58	13.48	13.53	14.00	13.61	13.53	13.60	14.50
3GPP Rel 6	HSUPA Subtest-1	13.55	13.45	13.58	14.00	13.56	13.66	13.74	14.50
3GPP Rel 6	HSUPA Subtest-2	14.03	13.98	14.05	15.00	14.05	14.14	14.19	15.00
3GPP Rel 6	HSUPA Subtest-3	13.13	13.00	13.02	14.00	13.10	13.16	13.27	14.00
3GPP Rel 6	HSUPA Subtest-4	14.12	13.91	14.00	15.00	14.08	14.11	14.18	15.00
3GPP Rel 6	HSUPA Subtest-5	13.07	12.92	13.05	14.00	13.05	13.17	13.29	14.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.10	12.96	13.03	14.00	13.02	13.12	13.15	14.00
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	14.77			Max.	14.85	
Date			7/9				7/9		

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	14.83	14.87	14.78	16
20	QPSK	1	49	14.75	14.82	14.61	16
20	QPSK	1	99	14.70	14.71	14.55	16
20	QPSK	50	0	13.72	13.75	13.69	15
20	QPSK	50	24	13.66	13.71	13.62	15
20	QPSK	50	50	13.55	13.57	13.49	15
20	QPSK	100	0	13.60	13.63	13.56	15
20	16QAM	1	0	13.86	13.92	13.80	15
20	16QAM	1	49	13.75	13.76	13.70	15
20	16QAM	1	99	13.62	13.68	13.60	15
20	16QAM	50	0	12.83	12.91	12.78	14
20	16QAM	50	24	12.75	12.78	12.70	14
20	16QAM	50	50	12.66	12.69	12.63	14
20	16QAM	100	0	12.60	12.61	12.57	14
20	64QAM	1	0	12.79	12.87	12.73	14
20	64QAM	1	49	12.66	12.73	12.64	14
20	64QAM	1	99	12.65	12.68	12.55	14
20	64QAM	50	0	12.11	12.20	12.06	13
20	64QAM	50	24	12.07	12.10	11.97	13
20	64QAM	50	50	12.03	12.05	12.00	13
20	64QAM	100	0	11.98	11.93	11.93	13
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	14.59	14.64	14.51	16
15	QPSK	1	37	14.53	14.56	14.46	16
15	QPSK	1	74	14.48	14.47	14.32	16
15	QPSK	36	0	13.57	13.51	13.53	15
15	QPSK	36	20	13.39	13.47	13.49	15
15	QPSK	36	39	13.46	13.36	13.34	15
15	QPSK	75	0	13.42	13.39	13.26	15
15	16QAM	1	0	13.66	13.61	13.54	15
15	16QAM	1	37	13.61	13.49	13.36	15
15	16QAM	1	74	13.46	13.45	13.29	15
15	16QAM	36	0	12.70	12.73	12.65	14
15	16QAM	36	20	12.55	12.62	12.49	14
15	16QAM	36	39	12.57	12.41	12.34	14
15	16QAM	75	0	12.40	12.42	12.41	14
15	64QAM	1	0	12.68	12.73	12.39	14
15	64QAM	1	37	12.38	12.42	12.32	14
15	64QAM	1	74	12.31	12.36	12.41	14
15	64QAM	36	0	11.92	12.10	11.83	13
15	64QAM	36	20	11.76	11.94	11.83	13
15	64QAM	36	39	11.69	11.88	11.87	13
15	64QAM	75	0	11.66	11.62	11.65	13
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	14.57	14.61	14.56	16
10	QPSK	1	25	14.51	14.57	14.47	16
10	QPSK	1	49	14.43	14.54	14.39	16
10	QPSK	25	0	13.44	13.41	13.41	15
10	QPSK	25	12	13.50	13.45	13.53	15
10	QPSK	25	25	13.31	13.44	13.17	15
10	QPSK	50	0	13.36	13.41	13.24	15
10	16QAM	1	0	13.69	13.73	13.58	15
10	16QAM	1	25	13.59	13.62	13.45	15
10	16QAM	1	49	13.53	13.42	13.37	15
10	16QAM	25	0	12.72	12.61	12.67	14
10	16QAM	25	12	12.50	12.51	12.49	14
10	16QAM	25	25	12.51	12.39	12.45	14
10	16QAM	50	0	12.47	12.52	12.45	14
10	64QAM	1	0	12.69	12.57	12.39	14
10	64QAM	1	25	12.36	12.63	12.53	14
10	64QAM	1	49	12.40	12.47	12.32	14
10	64QAM	25	0	11.96	12.00	11.89	13
10	64QAM	25	12	11.93	11.99	11.83	13
10	64QAM	25	25	11.75	11.72	11.78	13
10	64QAM	50	0	11.79	11.79	11.86	13
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	14.54	14.62	14.49	16
5	QPSK	1	12	14.46	14.51	14.44	16
5	QPSK	1	24	14.52	14.51	14.30	16
5	QPSK	12	0	13.56	13.41	13.50	15
5	QPSK	12	7	13.53	13.37	13.52	15
5	QPSK	12	13	13.33	13.26	13.34	15
5	QPSK	25	0	13.41	13.47	13.34	15
5	16QAM	1	0	13.56	13.65	13.46	15
5	16QAM	1	12	13.47	13.50	13.43	15
5	16QAM	1	24	13.37	13.34	13.28	15
5	16QAM	12	0	12.48	12.60	12.64	14
5	16QAM	12	7	12.45	12.47	12.44	14
5	16QAM	12	13	12.54	12.51	12.31	14
5	16QAM	25	0	12.37	12.33	12.44	14
5	64QAM	1	0	12.56	12.57	12.55	14
5	64QAM	1	12	12.45	12.59	12.47	14
5	64QAM	1	24	12.43	12.36	12.32	14
5	64QAM	12	0	11.85	12.07	11.83	13
5	64QAM	12	7	11.91	11.87	11.77	13
5	64QAM	12	13	11.85	11.75	11.83	13
5	64QAM	25	0	11.82	11.67	11.73	13
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	14.31	14.45	14.34	16
3	QPSK	1	8	14.27	14.30	14.27	16
3	QPSK	1	14	14.21	14.24	14.24	16
3	QPSK	8	0	13.42	13.44	13.29	15
3	QPSK	8	4	13.33	13.31	13.18	15
3	QPSK	8	7	13.26	13.18	13.12	15
3	QPSK	15	0	13.13	13.09	13.06	15

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	14.72	14.77	14.73	16
20	QPSK	1	49	14.70	14.63	14.59	16
20	QPSK	1	99	14.65	14.72	14.67	16
20	QPSK	50	0	13.69	13.72	13.68	15
20	QPSK	50	24	13.55	13.57	13.49	15
20	QPSK	50	50	13.47	13.56	13.58	15
20	QPSK	100	0	13.53	13.67	13.55	15
20	16QAM	1	0	13.77	13.88	13.79	15
20	16QAM	1	49	13.58	13.69	13.59	15
20	16QAM	1	99	13.54	13.71	13.60	15
20	16QAM	50	0	12.64	12.78	12.56	14
20	16QAM	50	24	12.71	12.74	12.58	14
20	16QAM	50	50	12.63	12.49	12.52	14
20	16QAM	100	0	12.50	12.53	12.41	14
20	64QAM	1	0	12.78	12.83	12.72	14
20	64QAM	1	49	12.48	12.69	12.61	14
20	64QAM	1	99	12.52	12.54	12.52	14
20	64QAM	50	0	11.95	12.14	11.85	13
20	64QAM	50	24	12.00	11.94	11.78	13
20	64QAM	50	50	11.84	11.85	11.95	13
20	64QAM	100	0	11.78	11.71	11.96	13
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	14.54	14.65	14.62	16
15	QPSK	1	37	14.46	14.53	14.50	16
15	QPSK	1	74	14.41	14.56	14.52	16
15	QPSK	36	0	13.55	13.61	13.57	15
15	QPSK	36	20	13.37	13.49	13.38	15
15	QPSK	36	39	13.42	13.45	13.42	15
15	QPSK	75	0	13.46	13.50	13.41	15
15	16QAM	1	0	13.67	13.62	13.59	15
15	16QAM	1	37	13.47	13.61	13.52	15
15	16QAM	1	74	13.52	13.54	13.43	15
15	16QAM	36	0	12.49	12.64	12.53	14
15	16QAM	36	20	12.57	12.67	12.44	14
15	16QAM	36	39	12.57	12.36	12.42	14
15	16QAM	75	0	12.27	12.28	12.38	14
15	64QAM	1	0	12.52	12.64	12.55	14
15	64QAM	1	37	12.53	12.57	12.49	14
15	64QAM	1	74	12.54	12.44	12.39	14
15	64QAM	36	0	11.89	11.99	11.85	13
15	64QAM	36	20	11.97	12.01	11.86	13
15	64QAM	36	39	11.72	11.74	11.71	13
15	64QAM	75	0	11.65	11.80	11.77	13
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	14.35	14.46	14.43	16
10	QPSK	1	25	14.27	14.34	14.31	16
10	QPSK	1	49	14.22	14.37	14.33	16
10	QPSK	25	0	13.36	13.42	13.38	15
10	QPSK	25	12	13.18	13.30	13.19	15
10	QPSK	25	25	13.23	13.26	13.23	15
10	QPSK	50	0	13.27	13.31	13.22	15
10	16QAM	1	0	13.48	13.43	13.40	15
10	16QAM	1	25	13.28	13.42	13.33	15
10	16QAM	1	49	13.33	13.35	13.24	15
10	16QAM	25	0	12.30	12.45	12.34	14
10	16QAM	25	12	12.38	12.48	12.25	14
10	16QAM	25	25	12.38	12.17	12.23	14
10	16QAM	50	0	12.08	12.09	12.19	14
10	64QAM	1	0	12.33	12.45	12.36	14
10	64QAM	1	25	12.34	12.38	12.30	14
10	64QAM	1	49	12.35	12.25	12.20	14
10	64QAM	25	0	11.70	11.80	11.66	13
10	64QAM	25	12	11.78	11.82	11.67	13
10	64QAM	25	25	11.53	11.55	11.52	13
10	64QAM	50	0	11.46	11.61	11.58	13
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	14.27	14.38	14.35	16
5	QPSK	1	12	14.19	14.26	14.23	16
5	QPSK	1	24	14.14	14.29	14.25	16
5	QPSK	12	0	13.28	13.34	13.30	15
5	QPSK	12	7	13.10	13.22	13.11	15
5	QPSK	12	13	13.15	13.18	13.15	15
5	QPSK	25	0	13.19	13.23	13.14	15
5	16QAM	1	0	13.40	13.35	13.32	15
5	16QAM	1	12	13.20	13.34	13.25	15
5	16QAM	1	24	13.25	13.27	13.16	15
5	16QAM	12	0	12.22	12.37	12.26	14
5	16QAM	12	7	12.30	12.40	12.17	14
5	16QAM	12	13	12.30	12.09	12.15	14
5	16QAM	25	0	12.00	12.01	12.11	14
5	64QAM	1	0	12.25	12.37	12.28	14
5	64QAM	1	12	12.26	12.30	12.22	14
5	64QAM	1	24	12.27	12.17	12.12	14
5	64QAM	12	0	11.62	11.72	11.58	13
5	64QAM	12	7	11.70	11.74	11.59	13
5	64QAM	12	13	11.45	11.47	11.44	13
5	64QAM	25	0	11.38	11.53	11.50	13
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	14.20	14.31	14.28	16
3	QPSK	1	8	14.12	14.19	14.16	16
3	QPSK	1	14	14.07	14.22	14.18	16
3	QPSK	8	0	13.21	13.27	13.23	15
3	QPSK	8	4	13.03	13.15	13.04	15
3	QPSK	8	7	13.08	13.11	13.08	15
3	QPSK	15	0	13.12	13.16	13.07	15

Left table

							Tune-up limit (dBm)
3	16QAM	1	0	13.42	13.48	13.27	15
3	16QAM	1	8	13.26	13.36	13.19	
3	16QAM	1	14	13.19	13.16	13.17	
3	16QAM	8	0	12.42	12.47	12.25	14
3	16QAM	8	4	12.25	12.35	12.23	
3	16QAM	8	7	12.22	12.39	12.12	
3	16QAM	15	0	12.30	12.29	12.12	
3	64QAM	1	0	12.45	12.46	12.26	14
3	64QAM	1	8	12.15	12.43	12.11	
3	64QAM	1	14	12.14	12.14	12.22	
3	64QAM	8	0	11.78	11.82	11.65	13
3	64QAM	8	4	11.60	11.70	11.53	
3	64QAM	8	7	11.58	11.73	11.51	
3	64QAM	15	0	11.50	11.61	11.62	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	14.36	14.43	14.38	16
1.4	QPSK	1	3	14.31	14.41	14.13	
1.4	QPSK	1	5	14.21	14.27	14.25	
1.4	QPSK	3	0	13.25	13.46	13.27	
1.4	QPSK	3	1	13.33	13.26	13.32	
1.4	QPSK	3	3	13.27	13.28	13.24	
1.4	QPSK	6	0	13.28	13.27	13.06	15
1.4	16QAM	1	0	13.50	13.50	13.38	15
1.4	16QAM	1	3	13.42	13.29	13.29	
1.4	16QAM	1	5	13.19	13.28	13.24	
1.4	16QAM	3	0	12.35	12.47	12.31	
1.4	16QAM	3	1	12.34	12.36	12.25	
1.4	16QAM	3	3	12.34	12.31	12.34	
1.4	16QAM	6	0	12.28	12.15	12.08	14
1.4	64QAM	1	0	12.43	12.54	12.39	14
1.4	64QAM	1	3	12.24	12.25	12.24	
1.4	64QAM	1	5	12.23	12.33	12.19	
1.4	64QAM	3	0	11.75	11.72	11.54	
1.4	64QAM	3	1	11.72	11.58	11.67	
1.4	64QAM	3	3	11.54	11.73	11.67	
1.4	64QAM	6	0	11.61	11.45	11.65	13

Right table

							Tune-up limit (dBm)
3	16QAM	1	0	13.33	13.28	13.25	15
3	16QAM	1	8	13.13	13.27	13.18	
3	16QAM	1	14	13.18	13.20	13.09	
3	16QAM	8	0	12.15	12.30	12.19	14
3	16QAM	8	4	12.23	12.33	12.10	
3	16QAM	8	7	12.23	12.02	12.08	
3	16QAM	15	0	11.93	11.94	12.04	
3	64QAM	1	0	12.18	12.30	12.21	14
3	64QAM	1	8	12.19	12.23	12.15	
3	64QAM	1	14	12.20	12.10	12.05	
3	64QAM	8	0	11.55	11.65	11.51	13
3	64QAM	8	4	11.63	11.67	11.52	
3	64QAM	8	7	11.38	11.40	11.37	
3	64QAM	15	0	11.31	11.46	11.43	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	14.06	14.17	14.14	16
1.4	QPSK	1	3	13.98	14.05	14.02	
1.4	QPSK	1	5	13.93	14.08	14.04	
1.4	QPSK	3	0	13.07	13.13	13.09	
1.4	QPSK	3	1	12.89	13.01	12.90	
1.4	QPSK	3	3	12.94	12.97	12.94	
1.4	QPSK	6	0	12.98	13.02	12.93	15
1.4	16QAM	1	0	13.19	13.14	13.11	15
1.4	16QAM	1	3	12.99	13.13	13.04	
1.4	16QAM	1	5	13.04	13.06	12.95	
1.4	16QAM	3	0	12.01	12.16	12.05	
1.4	16QAM	3	1	12.09	12.19	11.96	
1.4	16QAM	3	3	12.09	11.88	11.94	
1.4	16QAM	6	0	11.79	11.80	11.90	14
1.4	64QAM	1	0	12.04	12.16	12.07	14
1.4	64QAM	1	3	12.05	12.09	12.01	
1.4	64QAM	1	5	12.06	11.96	11.91	
1.4	64QAM	3	0	11.41	11.51	11.37	
1.4	64QAM	3	1	11.49	11.53	11.38	
1.4	64QAM	3	3	11.24	11.26	11.23	
1.4	64QAM	6	0	11.17	11.32	11.29	13

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	15.92	15.98	15.95	17
20	QPSK	1	49	15.85	15.86	15.79	
20	QPSK	1	99	15.69	15.80	15.68	
20	QPSK	50	0	15.02	15.03	15.02	16
20	QPSK	50	24	14.92	14.84	14.93	
20	QPSK	50	50	14.95	14.97	14.86	
20	QPSK	100	0	14.83	14.87	14.80	
20	16QAM	1	0	15.03	15.09	14.89	16
20	16QAM	1	49	15.07	14.83	14.83	
20	16QAM	1	99	14.94	14.86	14.80	
20	16QAM	50	0	13.95	14.02	13.85	15
20	16QAM	50	24	13.85	13.92	13.89	
20	16QAM	50	50	13.80	13.78	13.72	
20	16QAM	100	0	13.87	13.84	13.80	
20	64QAM	1	0	13.94	13.97	13.84	15
20	64QAM	1	49	13.85	14.02	13.75	
20	64QAM	1	99	13.94	13.77	13.82	
20	64QAM	50	0	13.32	13.45	13.24	14
20	64QAM	50	24	13.37	13.40	13.19	
20	64QAM	50	50	13.10	13.31	13.19	
20	64QAM	100	0	13.12	13.09	13.22	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	15.90	15.96	15.93	17
15	QPSK	1	37	15.83	15.84	15.77	
15	QPSK	1	74	15.67	15.78	15.66	
15	QPSK	36	0	15.00	15.01	15.00	16
15	QPSK	36	20	14.90	14.82	14.91	
15	QPSK	36	39	14.93	14.95	14.84	
15	QPSK	75	0	14.81	14.85	14.78	
15	16QAM	1	0	15.01	15.07	14.87	16
15	16QAM	1	37	15.05	14.81	14.81	
15	16QAM	1	74	14.92	14.84	14.78	
15	16QAM	36	0	13.93	14.00	13.83	15
15	16QAM	36	20	13.83	13.90	13.87	
15	16QAM	36	39	13.78	13.76	13.70	
15	16QAM	75	0	13.85	13.82	13.78	
15	64QAM	1	0	13.92	13.95	13.82	15
15	64QAM	1	37	13.83	14.00	13.73	
15	64QAM	1	74	13.92	13.75	13.80	
15	64QAM	36	0	13.30	13.43	13.22	14
15	64QAM	36	20	13.35	13.38	13.17	
15	64QAM	36	39	13.08	13.29	13.17	
15	64QAM	75	0	13.10	13.07	13.20	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	15.88	15.94	15.91	17
10	QPSK	1	25	15.81	15.82	15.75	
10	QPSK	1	49	15.65	15.76	15.64	
10	QPSK	25	0	14.98	14.99	14.98	16
10	QPSK	25	12	14.88	14.80	14.89	
10	QPSK	25	25	14.91	14.93	14.82	
10	QPSK	50	0	14.79	14.83	14.76	
10	16QAM	1	0	14.99	15.05	14.85	16
10	16QAM	1	25	15.03	14.79	14.79	
10	16QAM	1	49	14.90	14.82	14.76	
10	16QAM	25	0	13.91	13.98	13.81	15
10	16QAM	25	12	13.81	13.88	13.85	
10	16QAM	25	25	13.76	13.74	13.68	
10	16QAM	50	0	13.83	13.80	13.76	
10	64QAM	1	0	13.90	13.93	13.80	15
10	64QAM	1	25	13.81	13.98	13.71	
10	64QAM	1	49	13.90	13.73	13.78	
10	64QAM	25	0	13.28	13.41	13.20	14
10	64QAM	25	12	13.33	13.36	13.15	
10	64QAM	25	25	13.06	13.27	13.15	
10	64QAM	50	0	13.08	13.05	13.18	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	15.83	15.89	15.86	17
5	QPSK	1	12	15.76	15.77	15.70	
5	QPSK	1	24	15.60	15.71	15.59	
5	QPSK	12	0	14.93	14.94	14.93	16
5	QPSK	12	7	14.83	14.75	14.84	
5	QPSK	12	13	14.86	14.88	14.77	
5	QPSK	25	0	14.74	14.78	14.71	
5	16QAM	1	0	14.94	15.00	14.80	16
5	16QAM	1	12	14.98	14.74	14.74	
5	16QAM	1	24	14.85	14.77	14.71	
5	16QAM	12	0	13.86	13.93	13.76	15
5	16QAM	12	7	13.76	13.83	13.80	
5	16QAM	12	13	13.71	13.69	13.63	
5	16QAM	25	0	13.78	13.75	13.71	
5	64QAM	1	0	13.85	13.88	13.75	15
5	64QAM	1	12	13.76	13.93	13.66	
5	64QAM	1	24	13.85	13.68	13.73	
5	64QAM	12	0	13.23	13.36	13.15	14
5	64QAM	12	7	13.28	13.31	13.10	
5	64QAM	12	13	13.01	13.22	13.10	
5	64QAM	25	0	13.03	13.00	13.13	

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	14.77	14.79	14.65	
20	QPSK	1	49	14.62	14.67	14.49	16
20	QPSK	1	99	14.54	14.60	14.53	
20	QPSK	50	0	13.55	13.58	13.52	
20	QPSK	50	24	13.44	13.48	13.37	15
20	QPSK	50	50	13.30	13.41	13.32	
20	QPSK	100	0	13.52	13.56	13.41	
20	16QAM	1	0	13.71	13.74	13.56	
20	16QAM	1	49	13.51	13.68	13.49	15
20	16QAM	1	99	13.42	13.63	13.37	
20	16QAM	50	0	12.61	12.75	12.72	
20	16QAM	50	24	12.59	12.63	12.65	14
20	16QAM	50	50	12.45	12.42	12.46	
20	16QAM	100	0	12.42	12.36	12.36	
20	64QAM	1	0	12.55	12.71	12.64	
20	64QAM	1	49	12.43	12.65	12.42	14
20	64QAM	1	99	12.44	12.51	12.35	
20	64QAM	50	0	11.99	11.92	11.98	
20	64QAM	50	24	11.94	11.82	11.91	13
20	64QAM	50	50	11.81	11.86	11.85	
20	64QAM	100	0	11.73	11.72	11.85	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.69	14.71	14.57	
15	QPSK	1	37	14.54	14.59	14.41	16
15	QPSK	1	74	14.46	14.52	14.45	
15	QPSK	36	0	13.47	13.50	13.44	
15	QPSK	36	20	13.36	13.40	13.29	15
15	QPSK	36	39	13.22	13.33	13.24	
15	QPSK	75	0	13.44	13.48	13.33	
15	16QAM	1	0	13.63	13.66	13.48	
15	16QAM	1	37	13.43	13.60	13.41	15
15	16QAM	1	74	13.34	13.55	13.29	
15	16QAM	36	0	12.53	12.67	12.64	
15	16QAM	36	20	12.51	12.55	12.57	14
15	16QAM	36	39	12.37	12.34	12.38	
15	16QAM	75	0	12.34	12.28	12.28	
15	64QAM	1	0	12.47	12.63	12.56	
15	64QAM	1	37	12.35	12.57	12.34	14
15	64QAM	1	74	12.36	12.43	12.27	
15	64QAM	36	0	11.91	11.84	11.90	
15	64QAM	36	20	11.86	11.74	11.83	13
15	64QAM	36	39	11.73	11.78	11.77	
15	64QAM	75	0	11.65	11.64	11.77	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.61	14.63	14.49	
10	QPSK	1	25	14.46	14.51	14.33	16
10	QPSK	1	49	14.38	14.44	14.37	
10	QPSK	25	0	13.39	13.42	13.36	
10	QPSK	25	12	13.28	13.32	13.21	15
10	QPSK	25	25	13.14	13.25	13.16	
10	QPSK	50	0	13.36	13.40	13.25	
10	16QAM	1	0	13.55	13.58	13.40	
10	16QAM	1	25	13.35	13.52	13.33	15
10	16QAM	1	49	13.26	13.47	13.21	
10	16QAM	25	0	12.45	12.59	12.56	
10	16QAM	25	12	12.43	12.47	12.49	14
10	16QAM	25	25	12.29	12.26	12.30	
10	16QAM	50	0	12.26	12.20	12.20	
10	64QAM	1	0	12.39	12.55	12.48	
10	64QAM	1	25	12.27	12.49	12.26	14
10	64QAM	1	49	12.28	12.35	12.19	
10	64QAM	25	0	11.83	11.76	11.82	
10	64QAM	25	12	11.78	11.66	11.75	13
10	64QAM	25	25	11.65	11.70	11.69	
10	64QAM	50	0	11.57	11.56	11.69	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	14.52	14.54	14.40	
5	QPSK	1	12	14.37	14.42	14.24	16
5	QPSK	1	24	14.29	14.35	14.28	
5	QPSK	12	0	13.30	13.33	13.27	
5	QPSK	12	7	13.19	13.23	13.12	15
5	QPSK	12	13	13.05	13.16	13.07	
5	QPSK	25	0	13.27	13.31	13.16	
5	16QAM	1	0	13.46	13.49	13.31	
5	16QAM	1	12	13.26	13.43	13.24	15
5	16QAM	1	24	13.17	13.38	13.12	
5	16QAM	12	0	12.36	12.50	12.47	
5	16QAM	12	7	12.34	12.38	12.40	14
5	16QAM	12	13	12.20	12.17	12.21	
5	16QAM	25	0	12.17	12.11	12.11	
5	64QAM	1	0	12.30	12.46	12.39	
5	64QAM	1	12	12.18	12.40	12.17	14
5	64QAM	1	24	12.19	12.26	12.10	
5	64QAM	12	0	11.74	11.67	11.73	
5	64QAM	12	7	11.69	11.57	11.66	13
5	64QAM	12	13	11.56	11.61	11.60	
5	64QAM	25	0	11.48	11.47	11.60	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.43	14.45	14.31	
3	QPSK	1	8	14.28	14.33	14.15	16
3	QPSK	1	14	14.20	14.26	14.19	
3	QPSK	8	0	13.21	13.24	13.18	
3	QPSK	8	4	13.10	13.14	13.03	15
3	QPSK	8	7	13.35	13.07	13.37	
3	QPSK	15	0	13.18	13.22	13.07	

				131979	132322	132665	
3	16QAM	1	0	13.37	13.40	13.22	15
3	16QAM	1	8	13.17	13.34	13.15	
3	16QAM	1	14	13.08	13.29	13.03	
3	16QAM	8	0	12.27	12.41	12.38	14
3	16QAM	8	4	12.25	12.29	12.31	
3	16QAM	8	7	12.11	12.08	12.12	
3	16QAM	15	0	12.08	12.02	12.02	
3	64QAM	1	0	12.21	12.37	12.30	14
3	64QAM	1	8	12.09	12.31	12.08	
3	64QAM	1	14	12.10	12.17	12.01	
3	64QAM	8	0	11.65	11.58	11.64	13
3	64QAM	8	4	11.60	11.48	11.57	
3	64QAM	8	7	11.47	11.52	11.51	
3	64QAM	15	0	11.39	11.38	11.51	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.34	14.36	14.22	16
1.4	QPSK	1	3	14.19	14.24	14.06	
1.4	QPSK	1	5	14.11	14.17	14.10	
1.4	QPSK	3	0	14.29	14.32	14.26	
1.4	QPSK	3	1	14.18	14.22	14.11	
1.4	QPSK	3	3	14.04	14.15	14.06	
1.4	QPSK	6	0	13.48	13.52	13.37	15
1.4	16QAM	1	0	13.67	13.70	13.52	15
1.4	16QAM	1	3	13.47	13.64	13.45	
1.4	16QAM	1	5	13.38	13.59	13.33	
1.4	16QAM	3	0	13.35	13.49	13.46	
1.4	16QAM	3	1	13.33	13.37	13.39	
1.4	16QAM	3	3	13.19	13.16	13.20	
1.4	16QAM	6	0	12.38	12.32	12.32	14
1.4	64QAM	1	0	12.51	12.67	12.60	14
1.4	64QAM	1	3	12.39	12.61	12.38	
1.4	64QAM	1	5	12.40	12.47	12.31	
1.4	64QAM	3	0	12.34	12.27	12.33	
1.4	64QAM	3	1	12.29	12.17	12.26	
1.4	64QAM	3	3	12.16	12.21	12.20	
1.4	64QAM	6	0	11.30	11.29	11.42	13

Reduced Power Level 2

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	23.45	23.58	23.51	25.30	14.45	14.58	14.51	16.30
GPRS 1 Tx slot	23.60	23.63	23.59	25.30	14.60	14.63	14.59	16.30
GPRS 2 Tx slots	22.54	22.67	22.49	23.30	16.54	16.67	16.49	17.30
GPRS 3 Tx slots	20.48	20.53	20.50	21.30	16.22	16.27	16.24	17.04
GPRS 4 Tx slots	19.55	19.49	19.36	20.30	16.55	16.49	16.36	17.30
EDGE 1 Tx slot	19.39	19.38	19.24	20.30	10.39	10.38	10.24	11.30
EDGE 2 Tx slots	18.43	18.33	18.39	19.30	12.43	12.33	12.39	13.30
EDGE 3 Tx slots	16.86	16.72	16.70	17.30	12.60	12.46	12.44	13.04
EDGE 4 Tx slots	15.79	15.84	15.75	16.30	12.79	12.84	12.75	13.30
Mode		Max.	23.63			Max.	16.67	
Attenuator	Cable Loss :							
Date	7/9							

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	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99 RMC 12.2Kbps	17.70	17.77	17.58	18.70	16.82	16.85	16.74	17.80
3GPP Rel 5 HSDPA Subtest-1	17.12	17.04	17.05	18.00	16.13	16.09	16.19	17.00
3GPP Rel 5 HSDPA Subtest-2	17.10	17.01	16.96	18.00	16.05	16.08	16.23	17.00
3GPP Rel 5 HSDPA Subtest-3	16.65	16.43	16.46	17.50	15.56	15.60	15.73	16.50
3GPP Rel 5 HSDPA Subtest-4	16.57	16.37	16.48	17.50	15.56	15.57	15.69	16.50
3GPP Rel 8 DC-HSDPA Subtest-1	17.07	17.04	17.08	18.00	16.12	16.10	16.14	17.00
3GPP Rel 8 DC-HSDPA Subtest-2	17.05	17.01	17.03	18.00	16.09	16.07	16.10	17.00
3GPP Rel 8 DC-HSDPA Subtest-3	16.56	16.45	16.52	17.50	15.63	15.57	15.54	16.50
3GPP Rel 8 DC-HSDPA Subtest-4	16.58	16.48	16.53	17.50	15.61	15.53	15.60	16.50
3GPP Rel 6 HSUPA Subtest-1	16.55	16.45	16.58	17.50	15.56	15.66	15.74	16.50
3GPP Rel 6 HSUPA Subtest-2	17.03	16.98	17.05	18.00	16.05	16.14	16.19	17.00
3GPP Rel 6 HSUPA Subtest-3	16.13	16.00	16.02	17.00	15.10	15.16	15.27	16.00
3GPP Rel 6 HSUPA Subtest-4	17.12	16.91	17.00	18.00	16.08	16.11	16.18	17.00
3GPP Rel 6 HSUPA Subtest-5	16.07	15.92	16.05	17.00	15.05	15.17	15.29	16.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	16.10	15.96	16.03	17.00	15.02	15.12	15.15	16.00
Attenuator		Cable Loss	0.8			Cable Loss	0.8	
Mode		Max.	17.77			Max.	16.85	
Date		7/9				7/9		

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	17.83	17.87	17.78	19
20	QPSK	1	49	17.75	17.82	17.61	
20	QPSK	1	99	17.70	17.71	17.55	
20	QPSK	50	0	16.72	16.75	16.69	18
20	QPSK	50	24	16.66	16.71	16.62	
20	QPSK	50	50	16.55	16.57	16.49	
20	QPSK	100	0	16.60	16.63	16.56	
20	16QAM	1	0	16.86	16.92	16.80	18
20	16QAM	1	49	16.75	16.76	16.70	
20	16QAM	1	99	16.62	16.68	16.60	
20	16QAM	50	0	15.83	15.91	15.78	17
20	16QAM	50	24	15.75	15.78	15.70	
20	16QAM	50	50	15.66	15.69	15.63	
20	16QAM	100	0	15.60	15.61	15.57	
20	64QAM	1	0	15.79	15.87	15.73	17
20	64QAM	1	49	15.66	15.73	15.64	
20	64QAM	1	99	15.65	15.68	15.55	
20	64QAM	50	0	15.11	15.20	15.06	16
20	64QAM	50	24	15.07	15.10	14.97	
20	64QAM	50	50	15.03	15.05	15.00	
20	64QAM	100	0	14.98	14.93	14.99	
		Channel		18675	18900	19125	Tune-up limit (dBm)
		Frequency (MHz)		1857.5	1880	1902.5	
15	QPSK	1	0	17.59	17.64	17.51	19
15	QPSK	1	37	17.53	17.56	17.46	
15	QPSK	1	74	17.48	17.47	17.32	
15	QPSK	36	0	16.57	16.51	16.53	18
15	QPSK	36	20	16.39	16.47	16.49	
15	QPSK	36	39	16.46	16.36	16.34	
15	QPSK	75	0	16.42	16.39	16.26	
15	16QAM	1	0	16.66	16.61	16.54	18
15	16QAM	1	37	16.61	16.49	16.36	
15	16QAM	1	74	16.46	16.45	16.29	
15	16QAM	36	0	15.70	15.73	15.65	17
15	16QAM	36	20	15.55	15.62	15.49	
15	16QAM	36	39	15.57	15.41	15.34	
15	16QAM	75	0	15.40	15.42	15.41	
15	64QAM	1	0	15.68	15.73	15.39	17
15	64QAM	1	37	15.38	15.42	15.32	
15	64QAM	1	74	15.31	15.36	15.41	
15	64QAM	36	0	14.92	15.10	14.83	16
15	64QAM	36	20	14.76	14.94	14.83	
15	64QAM	36	39	14.69	14.88	14.87	
15	64QAM	75	0	14.66	14.62	14.66	
		Channel		18650	18900	19150	Tune-up limit (dBm)
		Frequency (MHz)		1855	1880	1905	
10	QPSK	1	0	17.57	17.61	17.56	19
10	QPSK	1	25	17.51	17.57	17.47	
10	QPSK	1	49	17.43	17.54	17.39	
10	QPSK	25	0	16.44	16.41	16.41	18
10	QPSK	25	12	16.50	16.45	16.53	
10	QPSK	25	25	16.31	16.44	16.17	
10	QPSK	50	0	16.36	16.41	16.24	
10	16QAM	1	0	16.69	16.73	16.58	18
10	16QAM	1	25	16.59	16.62	16.45	
10	16QAM	1	49	16.53	16.42	16.37	
10	16QAM	25	0	15.72	15.61	15.67	17
10	16QAM	25	12	15.50	15.51	15.49	
10	16QAM	25	25	15.51	15.39	15.45	
10	16QAM	50	0	15.47	15.52	15.45	
10	64QAM	1	0	15.69	15.57	15.39	17
10	64QAM	1	25	15.36	15.63	15.53	
10	64QAM	1	49	15.40	15.47	15.32	
10	64QAM	25	0	14.96	15.00	14.89	16
10	64QAM	25	12	14.93	14.99	14.83	
10	64QAM	25	25	14.75	14.72	14.78	
10	64QAM	50	0	14.79	14.79	14.86	
		Channel		18625	18900	19175	Tune-up limit (dBm)
		Frequency (MHz)		1852.5	1880	1907.5	
5	QPSK	1	0	17.54	17.62	17.49	19
5	QPSK	1	12	17.46	17.51	17.44	
5	QPSK	1	24	17.52	17.51	17.30	
5	QPSK	12	0	16.56	16.41	16.50	18
5	QPSK	12	7	16.53	16.37	16.52	
5	QPSK	12	13	16.33	16.26	16.34	
5	QPSK	25	0	16.41	16.47	16.34	
5	16QAM	1	0	16.56	16.65	16.46	18
5	16QAM	1	12	16.47	16.50	16.43	
5	16QAM	1	24	16.37	16.34	16.28	
5	16QAM	12	0	15.48	15.60	15.64	17
5	16QAM	12	7	15.45	15.47	15.44	
5	16QAM	12	13	15.54	15.51	15.31	
5	16QAM	25	0	15.37	15.33	15.44	
5	64QAM	1	0	15.56	15.57	15.55	17
5	64QAM	1	12	15.45	15.59	15.47	
5	64QAM	1	24	15.43	15.36	15.32	
5	64QAM	12	0	14.85	15.07	14.83	16
5	64QAM	12	7	14.91	14.87	14.77	
5	64QAM	12	13	14.85	14.75	14.83	
5	64QAM	25	0	14.82	14.67	14.73	
		Channel		18615	18900	19185	Tune-up limit (dBm)
		Frequency (MHz)		1851.5	1880	1908.5	
3	QPSK	1	0	17.31	17.45	17.34	19
3	QPSK	1	8	17.27	17.30	17.27	
3	QPSK	1	14	17.21	17.24	17.24	
3	QPSK	8	0	16.42	16.44	16.29	18
3	QPSK	8	4	16.33	16.31	16.18	
3	QPSK	8	7	16.26	16.18	16.22	
3	QPSK	15	0	16.13	16.09	16.06	
3	16QAM	1	0	16.42	16.48	16.27	

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	18.22	18.27	18.23	19
20	QPSK	1	49	18.20	18.13	18.09	
20	QPSK	1	99	18.15	18.22	18.17	
20	QPSK	50	0	17.19	17.22	17.18	18
20	QPSK	50	24	17.05	17.07	16.99	
20	QPSK	50	50	16.97	17.06	17.08	
20	QPSK	100	0	17.03	17.17	17.05	
20	16QAM	1	0	17.27	17.38	17.29	18
20	16QAM	1	49	17.08	17.19	17.09	
20	16QAM	1	99	17.04	17.21	17.10	
20	16QAM	50	0	16.14	16.28	16.06	17
20	16QAM	50	24	16.21	16.24	16.08	
20	16QAM	50	50	16.13	15.99	16.02	
20	16QAM	100	0	16.00	16.03	15.91	
20	64QAM	1	0	16.28	16.33	16.22	17
20	64QAM	1	49	15.98	16.19	16.11	
20	64QAM	1	99	16.02	16.04	16.02	
20	64QAM	50	0	15.45	15.64	15.35	16
20	64QAM	50	24	15.50	15.44	15.28	
20	64QAM	50	50	15.34	15.35	15.45	
20	64QAM	100	0	15.28	15.21	15.46	
		Channel		20025	20175	20325	Tune-up limit (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5	
15	QPSK	1	0	18.04	18.15	18.12	19
15	QPSK	1	37	17.96	18.03	18.00	
15	QPSK	1	74	17.91	18.06	18.02	
15	QPSK	36	0	17.05	17.11	17.07	18
15	QPSK	36	20	16.87	16.99	16.88	
15	QPSK	36	39	16.92	16.95	16.92	
15	QPSK	75	0	16.96	17.00	16.91	
15	16QAM	1	0	17.17	17.12	17.09	18
15	16QAM	1	37	16.97	17.11	17.02	
15	16QAM	1	74	17.02	17.04	16.93	
15	16QAM	36	0	15.99	16.14	16.03	17
15	16QAM	36	20	16.07	16.17	15.94	
15	16QAM	36	39	16.07	15.86	15.92	
15	16QAM	75	0	15.77	15.78	15.88	
15	64QAM	1	0	16.02	16.14	16.05	17
15	64QAM	1	37	16.03	16.07	15.99	
15	64QAM	1	74	16.04	15.94	15.89	
15	64QAM	36	0	15.39	15.49	15.35	16
15	64QAM	36	20	15.47	15.51	15.36	
15	64QAM	36	39	15.22	15.24	15.21	
15	64QAM	75	0	15.15	15.30	15.27	
		Channel		20000	20175	20350	Tune-up limit (dBm)
		Frequency (MHz)		1715	1732.5	1750	
10	QPSK	1	0	17.85	17.96	17.93	19
10	QPSK	1	25	17.77	17.84	17.81	
10	QPSK	1	49	17.72	17.87	17.83	
10	QPSK	25	0	16.86	16.92	16.88	18
10	QPSK	25	12	16.68	16.80	16.69	
10	QPSK	25	25	16.73	16.76	16.73	
10	QPSK	50	0	16.77	16.81	16.72	
10	16QAM	1	0	16.98	16.93	16.90	18
10	16QAM	1	25	16.78	16.92	16.83	
10	16QAM	1	49	16.83	16.85	16.74	
10	16QAM	25	0	15.80	15.95	15.84	17
10	16QAM	25	12	15.88	15.98	15.75	
10	16QAM	25	25	15.88	15.67	15.73	
10	16QAM	50	0	15.58	15.59	15.69	
10	64QAM	1	0	15.83	15.95	15.86	17
10	64QAM	1	25	15.84	15.88	15.80	
10	64QAM	1	49	15.85	15.75	15.70	
10	64QAM	25	0	15.20	15.30	15.16	16
10	64QAM	25	12	15.28	15.32	15.17	
10	64QAM	25	25	15.03	15.05	15.02	
10	64QAM	50	0	14.96	15.11	15.08	
		Channel		19975	20175	20375	Tune-up limit (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5	
5	QPSK	1	0	17.77	17.88	17.85	19
5	QPSK	1	12	17.69	17.76	17.73	
5	QPSK	1	24	17.64	17.79	17.75	
5	QPSK	12	0	16.78	16.84	16.80	18
5	QPSK	12	7	16.60	16.72	16.61	
5	QPSK	12	13	16.65	16.68	16.65	
5	QPSK	25	0	16.69	16.73	16.64	
5	16QAM	1	0	16.90	16.85	16.82	18
5	16QAM	1	12	16.70	16.84	16.75	
5	16QAM	1	24	16.75	16.77	16.66	
5	16QAM	12	0	15.72	15.87	15.76	17
5	16QAM	12	7	15.80	15.90	15.67	
5	16QAM	12	13	15.80	15.59	15.65	
5	16QAM	25	0	15.50	15.51	15.61	
5	64QAM	1	0	15.75	15.87	15.78	17
5	64QAM	1	12	15.76	15.80	15.72	
5	64QAM	1	24	15.77	15.67	15.62	
5	64QAM	12	0	15.12	15.22	15.08	16
5	64QAM	12	7	15.20	15.24	15.09	
5	64QAM	12	13	14.95	14.97	14.94	
5	64QAM	25	0	14.88	15.03	15.00	
		Channel		19965	20175	20385	Tune-up limit (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5	
3	QPSK	1	0	17.70	17.81	17.78	19
3	QPSK	1	8	17.62	17.69	17.66	
3	QPSK	1	14	17.57	17.72	17.68	
3	QPSK	8	0	16.71	16.77	16.73	18
3	QPSK	8	4	16.53	16.65	16.54	
3	QPSK	8	7	16.58	16.61	16.57	
3	QPSK	15	0	16.62	16.66	16.57	
3	16QAM	1	0	16.83	16.78	16.75	

Left table:

							Tune-up limit (dBm)
3	16QAM	1	8	16.26	16.36	16.19	18
3	16QAM	1	14	16.19	16.16	16.17	
3	16QAM	8	0	15.42	15.47	15.25	17
3	16QAM	8	4	15.25	15.35	15.23	
3	16QAM	8	7	15.22	15.39	15.12	
3	16QAM	15	0	15.30	15.29	15.12	
3	64QAM	1	0	15.45	15.46	15.26	17
3	64QAM	1	8	15.15	15.43	15.11	
3	64QAM	1	14	15.14	15.14	15.22	
3	64QAM	8	0	14.78	14.82	14.65	16
3	64QAM	8	4	14.60	14.70	14.53	
3	64QAM	8	7	14.58	14.73	14.51	
3	64QAM	15	0	14.50	14.61	14.62	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.36	17.43	17.38	19
1.4	QPSK	1	3	17.31	17.41	17.13	
1.4	QPSK	1	5	17.21	17.27	17.25	
1.4	QPSK	3	0	16.25	16.46	16.27	
1.4	QPSK	3	1	16.33	16.26	16.32	
1.4	QPSK	3	3	16.27	16.28	16.24	
1.4	QPSK	6	0	16.28	16.27	16.06	18
1.4	16QAM	1	0	16.50	16.50	16.38	18
1.4	16QAM	1	3	16.42	16.29	16.29	
1.4	16QAM	1	5	16.19	16.28	16.24	
1.4	16QAM	3	0	15.35	15.47	15.31	
1.4	16QAM	3	1	15.34	15.36	15.25	
1.4	16QAM	3	3	15.34	15.31	15.34	
1.4	16QAM	6	0	15.28	15.15	15.08	17
1.4	64QAM	1	0	15.43	15.54	15.39	17
1.4	64QAM	1	3	15.24	15.25	15.24	
1.4	64QAM	1	5	15.23	15.33	15.19	
1.4	64QAM	3	0	14.75	14.72	14.54	
1.4	64QAM	3	1	14.72	14.58	14.67	
1.4	64QAM	3	3	14.54	14.73	14.67	
1.4	64QAM	6	0	14.61	14.45	14.65	16

Right table:

							Tune-up limit (dBm)
3	16QAM	1	8	16.63	16.77	16.68	18
3	16QAM	1	14	16.68	16.70	16.59	
3	16QAM	8	0	15.65	15.80	15.69	17
3	16QAM	8	4	15.73	15.83	15.60	
3	16QAM	8	7	15.73	15.52	15.58	
3	16QAM	15	0	15.43	15.44	15.54	
3	64QAM	1	0	15.68	15.80	15.71	17
3	64QAM	1	8	15.69	15.73	15.65	
3	64QAM	1	14	15.70	15.60	15.55	
3	64QAM	8	0	15.05	15.15	15.01	16
3	64QAM	8	4	15.13	15.17	15.02	
3	64QAM	8	7	14.88	14.90	14.87	
3	64QAM	15	0	14.81	14.96	14.93	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.56	17.67	17.64	19
1.4	QPSK	1	3	17.48	17.55	17.52	
1.4	QPSK	1	5	17.43	17.58	17.54	
1.4	QPSK	3	0	16.57	16.63	16.59	
1.4	QPSK	3	1	16.39	16.51	16.40	
1.4	QPSK	3	3	16.44	16.47	16.44	
1.4	QPSK	6	0	16.48	16.52	16.43	18
1.4	16QAM	1	0	16.69	16.64	16.61	18
1.4	16QAM	1	3	16.49	16.63	16.54	
1.4	16QAM	1	5	16.54	16.56	16.45	
1.4	16QAM	3	0	15.51	15.66	15.46	
1.4	16QAM	3	1	15.59	15.69	15.46	
1.4	16QAM	3	3	15.59	15.38	15.44	
1.4	16QAM	6	0	15.29	15.30	15.40	17
1.4	64QAM	1	0	15.54	15.66	15.57	17
1.4	64QAM	1	3	15.55	15.59	15.51	
1.4	64QAM	1	5	15.56	15.46	15.41	
1.4	64QAM	3	0	14.91	15.01	14.87	
1.4	64QAM	3	1	14.99	15.03	14.88	
1.4	64QAM	3	3	14.74	14.76	14.73	
1.4	64QAM	6	0	14.67	14.82	14.79	16

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	Tune-up limit (dBm)
		Frequency (MHz)		2510	2535	2560	
20	QPSK	1	0	14.92	14.98	14.95	16
20	QPSK	1	49	14.85	14.86	14.79	
20	QPSK	1	99	14.69	14.80	14.68	
20	QPSK	50	0	14.02	14.03	14.02	15
20	QPSK	50	24	13.92	13.84	13.93	
20	QPSK	50	50	13.95	13.97	13.86	
20	QPSK	100	0	13.83	13.87	13.80	
20	16QAM	1	0	14.03	14.09	13.89	15
20	16QAM	1	49	14.07	13.83	13.83	
20	16QAM	1	99	13.94	13.86	13.80	
20	16QAM	50	0	12.95	13.02	12.85	14
20	16QAM	50	24	12.85	12.92	12.89	
20	16QAM	50	50	12.80	12.78	12.72	
20	16QAM	100	0	12.87	12.84	12.80	
20	64QAM	1	0	12.94	12.97	12.84	14
20	64QAM	1	49	12.85	13.02	12.75	
20	64QAM	1	99	12.94	12.77	12.82	
20	64QAM	50	0	12.32	12.45	12.24	13
20	64QAM	50	24	12.37	12.40	12.19	
20	64QAM	50	50	12.10	12.31	12.19	
20	64QAM	100	0	12.12	12.09	12.22	
		Channel		20825	21100	21375	Tune-up limit (dBm)
		Frequency (MHz)		2507.5	2535	2562.5	
15	QPSK	1	0	14.90	14.96	14.93	16
15	QPSK	1	37	14.83	14.84	14.77	
15	QPSK	1	74	14.67	14.78	14.66	
15	QPSK	36	0	14.00	14.01	14.00	15
15	QPSK	36	20	13.90	13.82	13.91	
15	QPSK	36	39	13.93	13.95	13.84	
15	QPSK	75	0	13.81	13.85	13.78	
15	16QAM	1	0	14.01	14.07	13.87	15
15	16QAM	1	37	14.05	13.81	13.81	
15	16QAM	1	74	13.92	13.84	13.78	
15	16QAM	36	0	12.93	13.00	12.83	14
15	16QAM	36	20	12.83	12.90	12.87	
15	16QAM	36	39	12.78	12.76	12.70	
15	16QAM	75	0	12.85	12.82	12.78	
15	64QAM	1	0	12.92	12.95	12.82	14
15	64QAM	1	37	12.83	13.00	12.73	
15	64QAM	1	74	12.92	12.75	12.80	
15	64QAM	36	0	12.30	12.43	12.22	13
15	64QAM	36	20	12.35	12.38	12.17	
15	64QAM	36	39	12.08	12.29	12.17	
15	64QAM	75	0	12.10	12.07	12.20	
		Channel		20800	21100	21400	Tune-up limit (dBm)
		Frequency (MHz)		2505	2535	2565	
10	QPSK	1	0	14.88	14.94	14.91	16
10	QPSK	1	25	14.81	14.82	14.75	
10	QPSK	1	49	14.65	14.76	14.64	
10	QPSK	25	0	13.98	13.99	13.98	15
10	QPSK	25	12	13.88	13.80	13.89	
10	QPSK	25	25	13.91	13.93	13.82	
10	QPSK	50	0	13.79	13.83	13.76	
10	16QAM	1	0	13.99	14.05	13.85	15
10	16QAM	1	25	14.03	13.79	13.79	
10	16QAM	1	49	13.90	13.82	13.76	
10	16QAM	25	0	12.91	12.98	12.81	14
10	16QAM	25	12	12.81	12.88	12.85	
10	16QAM	25	25	12.76	12.74	12.68	
10	16QAM	50	0	12.83	12.80	12.76	
10	64QAM	1	0	12.90	12.93	12.80	14
10	64QAM	1	25	12.81	12.98	12.71	
10	64QAM	1	49	12.90	12.73	12.78	
10	64QAM	25	0	12.28	12.41	12.20	13
10	64QAM	25	12	12.33	12.36	12.15	
10	64QAM	25	25	12.06	12.27	12.15	
10	64QAM	50	0	12.08	12.05	12.18	
		Channel		20775	21100	21425	Tune-up limit (dBm)
		Frequency (MHz)		2502.5	2535	2567.5	
5	QPSK	1	0	14.83	14.89	14.86	16
5	QPSK	1	12	14.76	14.77	14.70	
5	QPSK	1	24	14.60	14.71	14.59	
5	QPSK	12	0	13.93	13.94	13.93	15
5	QPSK	12	7	13.83	13.75	13.84	
5	QPSK	12	13	13.86	13.88	13.77	
5	QPSK	25	0	13.74	13.78	13.71	
5	16QAM	1	0	13.94	14.00	13.80	15
5	16QAM	1	12	13.98	13.74	13.74	
5	16QAM	1	24	13.85	13.77	13.71	
5	16QAM	12	0	12.86	12.93	12.76	14
5	16QAM	12	7	12.76	12.83	12.80	
5	16QAM	12	13	12.71	12.69	12.63	
5	16QAM	25	0	12.78	12.75	12.71	
5	64QAM	1	0	12.85	12.88	12.75	14
5	64QAM	1	12	12.76	12.93	12.66	
5	64QAM	1	24	12.85	12.68	12.73	
5	64QAM	12	0	12.23	12.36	12.15	13
5	64QAM	12	7	12.28	12.31	12.10	
5	64QAM	12	13	12.01	12.22	12.10	
5	64QAM	25	0	12.03	12.00	12.13	

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	18.27	18.29	18.20	19
20	QPSK	1	49	18.12	18.17	17.99	
20	QPSK	1	99	18.04	18.10	18.03	
20	QPSK	50	0	17.05	17.08	17.02	18
20	QPSK	50	24	16.94	16.98	16.87	
20	QPSK	50	50	16.80	16.91	16.82	
20	QPSK	100	0	17.02	17.06	16.91	
20	16QAM	1	0	17.21	17.24	17.06	18
20	16QAM	1	49	17.01	17.18	16.99	
20	16QAM	1	99	16.92	17.13	16.87	
20	16QAM	50	0	16.11	16.25	16.22	17
20	16QAM	50	24	16.09	16.13	16.15	
20	16QAM	50	50	15.95	15.92	15.96	
20	16QAM	100	0	15.92	15.86	15.86	
20	64QAM	1	0	16.05	16.21	16.14	17
20	64QAM	1	49	15.93	16.15	15.92	
20	64QAM	1	99	15.94	16.01	15.85	
20	64QAM	50	0	15.49	15.42	15.48	16
20	64QAM	50	24	15.44	15.32	15.41	
20	64QAM	50	50	15.31	15.36	15.35	
20	64QAM	100	0	15.23	15.22	15.35	
		Channel		132047	132322	132597	Tune-up limit (dBm)
		Frequency (MHz)		1717.5	1745	1772.5	
15	QPSK	1	0	18.19	18.21	18.07	19
15	QPSK	1	37	18.04	18.09	17.91	
15	QPSK	1	74	17.96	18.02	17.95	
15	QPSK	36	0	16.97	17.00	16.94	18
15	QPSK	36	20	16.86	16.90	16.79	
15	QPSK	36	39	16.72	16.83	16.74	
15	QPSK	75	0	16.94	16.98	16.83	
15	16QAM	1	0	17.13	17.16	16.98	18
15	16QAM	1	37	16.93	17.10	16.91	
15	16QAM	1	74	16.84	17.05	16.79	
15	16QAM	36	0	16.03	16.17	16.14	17
15	16QAM	36	20	16.01	16.05	16.07	
15	16QAM	36	39	15.87	15.84	15.88	
15	16QAM	75	0	15.84	15.78	15.78	
15	64QAM	1	0	15.97	16.13	16.06	17
15	64QAM	1	37	15.85	16.07	15.84	
15	64QAM	1	74	15.86	15.93	15.77	
15	64QAM	36	0	15.41	15.34	15.40	16
15	64QAM	36	20	15.36	15.24	15.33	
15	64QAM	36	39	15.23	15.28	15.27	
15	64QAM	75	0	15.15	15.14	15.27	
		Channel		132022	132322	132622	Tune-up limit (dBm)
		Frequency (MHz)		1715	1745	1775	
10	QPSK	1	0	18.11	18.13	17.99	19
10	QPSK	1	25	17.96	18.01	17.83	
10	QPSK	1	49	17.88	17.94	17.87	
10	QPSK	25	0	16.89	16.92	16.86	18
10	QPSK	25	12	16.78	16.82	16.71	
10	QPSK	25	25	16.64	16.75	16.66	
10	QPSK	50	0	16.86	16.90	16.75	
10	16QAM	1	0	17.05	17.08	16.90	18
10	16QAM	1	25	16.85	17.02	16.83	
10	16QAM	1	49	16.76	16.97	16.71	
10	16QAM	25	0	15.95	16.09	16.06	17
10	16QAM	25	12	15.93	15.97	15.99	
10	16QAM	25	25	15.79	15.76	15.80	
10	16QAM	50	0	15.76	15.70	15.70	
10	64QAM	1	0	15.89	16.05	15.98	17
10	64QAM	1	25	15.77	15.99	15.76	
10	64QAM	1	49	15.78	15.85	15.69	
10	64QAM	25	0	15.33	15.26	15.32	16
10	64QAM	25	12	15.28	15.16	15.25	
10	64QAM	25	25	15.15	15.20	15.19	
10	64QAM	50	0	15.07	15.06	15.19	
		Channel		131997	132322	132647	Tune-up limit (dBm)
		Frequency (MHz)		1712.5	1745	1777.5	
5	QPSK	1	0	18.02	18.04	17.90	19
5	QPSK	1	12	17.87	17.92	17.74	
5	QPSK	1	24	17.79	17.85	17.78	
5	QPSK	12	0	16.80	16.83	16.77	18
5	QPSK	12	7	16.69	16.73	16.62	
5	QPSK	12	13	16.55	16.66	16.57	
5	QPSK	25	0	16.77	16.81	16.66	
5	16QAM	1	0	16.96	16.99	16.81	18
5	16QAM	1	12	16.76	16.93	16.74	
5	16QAM	1	24	16.67	16.88	16.62	
5	16QAM	12	0	15.86	16.00	15.97	17
5	16QAM	12	7	15.84	15.88	15.90	
5	16QAM	12	13	15.70	15.67	15.71	
5	16QAM	25	0	15.67	15.61	15.61	
5	64QAM	1	0	15.80	15.96	15.89	17
5	64QAM	1	12	15.68	15.90	15.67	
5	64QAM	1	24	15.69	15.76	15.60	
5	64QAM	12	0	15.24	15.17	15.23	16
5	64QAM	12	7	15.19	15.07	15.16	
5	64QAM	12	13	15.06	15.11	15.10	
5	64QAM	25	0	14.98	14.97	15.10	
		Channel		131987	132322	132657	Tune-up limit (dBm)
		Frequency (MHz)		1711.5	1745	1778.5	
3	QPSK	1	0	17.93	17.95	17.81	19
3	QPSK	1	8	17.78	17.83	17.65	
3	QPSK	1	14	17.70	17.76	17.69	
3	QPSK	8	0	16.71	16.74	16.68	18
3	QPSK	8	4	16.60	16.64	16.53	
3	QPSK	8	7	16.85	16.57	16.87	
3	QPSK	15	0	16.68	16.72	16.57	
3	16QAM	1	0	16.87	16.90	16.72	

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							Tune-up limit (dBm)
3	16QAM	1	8	16.67	16.84	16.65	18
3	16QAM	1	14	16.58	16.79	16.53	
3	16QAM	8	0	15.77	15.91	15.88	
3	16QAM	8	4	15.75	15.79	15.81	17
3	16QAM	8	7	15.61	15.58	15.62	
3	16QAM	15	0	15.58	15.52	15.52	
3	64QAM	1	0	15.71	15.87	15.80	
3	64QAM	1	8	15.59	15.81	15.58	17
3	64QAM	1	14	15.60	15.67	15.51	
3	64QAM	8	0	15.15	15.08	15.14	
3	64QAM	8	4	15.10	14.98	15.07	16
3	64QAM	8	7	14.97	15.02	15.01	
3	64QAM	15	0	14.89	14.88	15.01	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.84	17.86	17.72	
1.4	QPSK	1	3	17.69	17.74	17.56	
1.4	QPSK	1	5	17.61	17.67	17.60	19
1.4	QPSK	3	0	17.79	17.82	17.76	
1.4	QPSK	3	1	17.68	17.72	17.61	
1.4	QPSK	3	3	17.54	17.65	17.56	
1.4	QPSK	6	0	16.98	17.02	16.87	18
1.4	16QAM	1	0	17.17	17.20	17.02	
1.4	16QAM	1	3	16.97	17.14	16.95	
1.4	16QAM	1	5	16.88	17.09	16.83	18
1.4	16QAM	3	0	16.85	16.99	16.96	
1.4	16QAM	3	1	16.83	16.87	16.89	
1.4	16QAM	3	3	16.69	16.66	16.70	
1.4	16QAM	6	0	15.88	15.82	15.82	17
1.4	64QAM	1	0	16.01	16.17	16.10	
1.4	64QAM	1	3	15.89	16.11	15.88	
1.4	64QAM	1	5	15.90	15.97	15.81	17
1.4	64QAM	3	0	15.84	15.77	15.83	
1.4	64QAM	3	1	15.79	15.67	15.76	
1.4	64QAM	3	3	15.66	15.71	15.70	
1.4	64QAM	6	0	14.80	14.79	14.92	16

Reduced Power Level 3

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	24.45	24.58	24.51	26.30	15.45	15.58	15.51	17.30
GPRS 1 Tx slot	24.60	24.63	24.59	26.30	15.60	15.63	15.59	17.30
GPRS 2 Tx slots	23.54	23.67	23.49	24.30	17.54	17.67	17.49	18.30
GPRS 3 Tx slots	21.48	21.53	21.50	22.30	17.22	17.27	17.24	18.04
GPRS 4 Tx slots	20.55	20.49	20.36	21.30	17.55	17.49	17.36	18.30
EDGE 1 Tx slot	20.39	20.38	20.24	21.30	11.39	11.38	11.24	12.30
EDGE 2 Tx slots	19.43	19.33	19.39	20.30	13.43	13.33	13.39	14.30
EDGE 3 Tx slots	17.86	17.72	17.70	18.30	13.60	13.46	13.44	14.04
EDGE 4 Tx slots	16.79	16.84	16.75	17.30	13.79	13.84	13.75	14.30
Mode		Max.	24.63			Max.	17.67	
Attenuator	Cable Loss :							
Date	7/9							

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	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	18.70	18.77	18.58	19.70	17.82	17.85	17.74	18.80
3GPP Rel 5	HSDPA Subtest-1	18.12	18.04	18.05	19.00	17.13	17.09	17.19	18.00
3GPP Rel 5	HSDPA Subtest-2	18.10	18.01	17.96	19.00	17.05	17.08	17.23	18.00
3GPP Rel 5	HSDPA Subtest-3	17.65	17.43	17.46	18.50	16.56	16.60	16.73	17.50
3GPP Rel 5	HSDPA Subtest-4	17.57	17.37	17.48	18.50	16.56	16.57	16.69	17.50
3GPP Rel 8	DC-HSDPA Subtest-1	18.07	18.04	18.08	19.00	17.12	17.10	17.14	18.00
3GPP Rel 8	DC-HSDPA Subtest-2	18.05	18.01	18.03	19.00	17.09	17.07	17.10	18.00
3GPP Rel 8	DC-HSDPA Subtest-3	17.56	17.45	17.52	18.50	16.63	16.57	16.54	17.50
3GPP Rel 8	DC-HSDPA Subtest-4	17.58	17.48	17.53	18.50	16.61	16.53	16.60	17.50
3GPP Rel 6	HSUPA Subtest-1	17.55	17.45	17.58	18.50	16.56	16.66	16.74	17.50
3GPP Rel 6	HSUPA Subtest-2	18.03	17.98	18.05	19.00	17.05	17.14	17.19	18.00
3GPP Rel 6	HSUPA Subtest-3	17.13	17.00	17.02	18.00	16.10	16.16	16.27	17.00
3GPP Rel 6	HSUPA Subtest-4	18.12	17.91	18.00	19.00	17.08	17.11	17.18	18.00
3GPP Rel 6	HSUPA Subtest-5	17.07	16.92	17.05	18.00	16.05	16.17	16.29	17.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.10	16.96	17.03	18.00	16.02	16.12	16.15	17.00
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	18.77			Max.	17.85	
Date			7/9				7/9		

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	18.83	18.87	18.78	20
20	QPSK	1	49	18.75	18.82	18.61	
20	QPSK	1	99	18.70	18.71	18.55	
20	QPSK	50	0	17.72	17.75	17.69	19
20	QPSK	50	24	17.66	17.71	17.62	
20	QPSK	50	50	17.55	17.57	17.49	
20	QPSK	100	0	17.60	17.63	17.56	
20	16QAM	1	0	17.86	17.92	17.80	19
20	16QAM	1	49	17.75	17.76	17.70	
20	16QAM	1	99	17.62	17.68	17.60	
20	16QAM	50	0	16.83	16.91	16.78	18
20	16QAM	50	24	16.75	16.78	16.70	
20	16QAM	50	50	16.66	16.69	16.63	
20	16QAM	100	0	16.60	16.61	16.57	
20	64QAM	1	0	16.79	16.87	16.73	18
20	64QAM	1	49	16.66	16.73	16.64	
20	64QAM	1	99	16.65	16.68	16.55	
20	64QAM	50	0	16.11	16.20	16.06	17
20	64QAM	50	24	16.07	16.10	15.97	
20	64QAM	50	50	16.03	16.05	16.00	
20	64QAM	100	0	15.98	15.93	15.93	
	Channel			18675	18900	19125	Tune-up limit (dBm)
	Frequency (MHz)			1857.5	1880	1902.5	
15	QPSK	1	0	18.59	18.64	18.51	20
15	QPSK	1	37	18.53	18.56	18.46	
15	QPSK	1	74	18.48	18.47	18.32	
15	QPSK	36	0	17.57	17.51	17.53	19
15	QPSK	36	20	17.39	17.47	17.49	
15	QPSK	36	39	17.46	17.36	17.34	
15	QPSK	75	0	17.42	17.39	17.26	
15	16QAM	1	0	17.66	17.61	17.54	19
15	16QAM	1	37	17.61	17.49	17.36	
15	16QAM	1	74	17.46	17.45	17.29	
15	16QAM	36	0	16.70	16.73	16.65	18
15	16QAM	36	20	16.55	16.62	16.49	
15	16QAM	36	39	16.57	16.41	16.34	
15	16QAM	75	0	16.40	16.42	16.41	
15	64QAM	1	0	16.68	16.73	16.39	18
15	64QAM	1	37	16.38	16.42	16.32	
15	64QAM	1	74	16.31	16.36	16.41	
15	64QAM	36	0	15.92	16.10	15.83	17
15	64QAM	36	20	15.76	15.94	15.83	
15	64QAM	36	39	15.69	15.88	15.87	
15	64QAM	75	0	15.66	15.62	15.65	
	Channel			18650	18900	19150	Tune-up limit (dBm)
	Frequency (MHz)			1855	1880	1905	
10	QPSK	1	0	18.57	18.61	18.56	20
10	QPSK	1	25	18.51	18.57	18.47	
10	QPSK	1	49	18.43	18.54	18.39	
10	QPSK	25	0	17.44	17.41	17.41	19
10	QPSK	25	12	17.50	17.45	17.53	
10	QPSK	25	25	17.31	17.44	17.17	
10	QPSK	50	0	17.36	17.41	17.24	
10	16QAM	1	0	17.69	17.73	17.58	19
10	16QAM	1	25	17.59	17.62	17.45	
10	16QAM	1	49	17.53	17.42	17.37	
10	16QAM	25	0	16.72	16.61	16.67	18
10	16QAM	25	12	16.50	16.51	16.49	
10	16QAM	25	25	16.51	16.39	16.45	
10	16QAM	50	0	16.47	16.52	16.45	
10	64QAM	1	0	16.69	16.57	16.39	18
10	64QAM	1	25	16.36	16.63	16.53	
10	64QAM	1	49	16.40	16.47	16.32	
10	64QAM	25	0	15.96	16.00	15.89	17
10	64QAM	25	12	15.93	15.99	15.83	
10	64QAM	25	25	15.75	15.72	15.78	
10	64QAM	50	0	15.79	15.79	15.86	
	Channel			18625	18900	19175	Tune-up limit (dBm)
	Frequency (MHz)			1852.5	1880	1907.5	
5	QPSK	1	0	18.54	18.62	18.49	20
5	QPSK	1	12	18.46	18.51	18.44	
5	QPSK	1	24	18.52	18.51	18.30	
5	QPSK	12	0	17.56	17.41	17.50	19
5	QPSK	12	7	17.53	17.37	17.52	
5	QPSK	12	13	17.33	17.26	17.34	
5	QPSK	25	0	17.41	17.47	17.34	
5	16QAM	1	0	17.56	17.65	17.46	19
5	16QAM	1	12	17.47	17.50	17.43	
5	16QAM	1	24	17.37	17.34	17.28	
5	16QAM	12	0	16.48	16.60	16.64	18
5	16QAM	12	7	16.45	16.47	16.44	
5	16QAM	12	13	16.54	16.51	16.31	
5	16QAM	25	0	16.37	16.33	16.44	
5	64QAM	1	0	16.56	16.57	16.55	18
5	64QAM	1	12	16.45	16.59	16.47	
5	64QAM	1	24	16.43	16.36	16.32	
5	64QAM	12	0	15.85	16.07	15.83	17
5	64QAM	12	7	15.91	15.87	15.77	
5	64QAM	12	13	15.85	15.75	15.83	
5	64QAM	25	0	15.82	15.67	15.73	
	Channel			18615	18900	19185	Tune-up limit (dBm)
	Frequency (MHz)			1851.5	1880	1908.5	
3	QPSK	1	0	18.31	18.45	18.34	20
3	QPSK	1	8	18.27	18.30	18.27	
3	QPSK	1	14	18.21	18.24	18.24	
3	QPSK	8	0	17.42	17.44	17.29	19
3	QPSK	8	4	17.33	17.31	17.18	
3	QPSK	8	7	17.26	17.18	17.12	
3	QPSK	15	0	17.13	17.09	17.06	

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	18.72	18.77	18.73	20
20	QPSK	1	49	18.70	18.63	18.59	
20	QPSK	1	99	18.65	18.72	18.67	
20	QPSK	50	0	17.69	17.72	17.68	19
20	QPSK	50	24	17.55	17.57	17.49	
20	QPSK	50	50	17.47	17.56	17.58	
20	QPSK	100	0	17.53	17.67	17.55	
20	16QAM	1	0	17.77	17.88	17.79	19
20	16QAM	1	49	17.58	17.69	17.59	
20	16QAM	1	99	17.54	17.71	17.60	
20	16QAM	50	0	16.64	16.78	16.56	18
20	16QAM	50	24	16.71	16.74	16.58	
20	16QAM	50	50	16.63	16.49	16.52	
20	16QAM	100	0	16.50	16.53	16.41	
20	64QAM	1	0	16.78	16.83	16.72	18
20	64QAM	1	49	16.48	16.69	16.61	
20	64QAM	1	99	16.52	16.54	16.52	
20	64QAM	50	0	15.95	16.14	15.85	17
20	64QAM	50	24	16.00	15.94	15.78	
20	64QAM	50	50	15.84	15.85	15.95	
20	64QAM	100	0	15.78	15.80	15.96	
	Channel			20025	20175	20325	Tune-up limit (dBm)
	Frequency (MHz)			1717.5	1732.5	1747.5	
15	QPSK	1	0	18.54	18.65	18.62	20
15	QPSK	1	37	18.46	18.53	18.50	
15	QPSK	1	74	18.41	18.56	18.52	
15	QPSK	36	0	17.55	17.61	17.57	19
15	QPSK	36	20	17.37	17.49	17.38	
15	QPSK	36	39	17.42	17.45	17.42	
15	QPSK	75	0	17.46	17.50	17.41	
15	16QAM	1	0	17.67	17.62	17.59	19
15	16QAM	1	37	17.47	17.61	17.52	
15	16QAM	1	74	17.52	17.54	17.43	
15	16QAM	36	0	16.49	16.64	16.53	18
15	16QAM	36	20	16.57	16.67	16.44	
15	16QAM	36	39	16.57	16.36	16.42	
15	16QAM	75	0	16.27	16.28	16.38	
15	64QAM	1	0	16.52	16.64	16.55	18
15	64QAM	1	37	16.53	16.57	16.49	
15	64QAM	1	74	16.54	16.44	16.39	
15	64QAM	36	0	15.89	15.99	15.85	17
15	64QAM	36	20	15.97	16.01	15.86	
15	64QAM	36	39	15.72	15.74	15.71	
15	64QAM	75	0	15.65	15.80	15.77	
	Channel			20000	20175	20350	Tune-up limit (dBm)
	Frequency (MHz)			1715	1732.5	1750	
10	QPSK	1	0	18.35	18.46	18.43	20
10	QPSK	1	25	18.27	18.34	18.31	
10	QPSK	1	49	18.22	18.37	18.33	
10	QPSK	25	0	17.36	17.42	17.38	19
10	QPSK	25	12	17.18	17.30	17.19	
10	QPSK	25	25	17.23	17.26	17.23	
10	QPSK	50	0	17.27	17.31	17.22	
10	16QAM	1	0	17.48	17.43	17.40	19
10	16QAM	1	25	17.28	17.42	17.33	
10	16QAM	1	49	17.33	17.35	17.24	
10	16QAM	25	0	16.30	16.45	16.34	18
10	16QAM	25	12	16.38	16.48	16.25	
10	16QAM	25	25	16.38	16.17	16.23	
10	16QAM	50	0	16.08	16.09	16.19	
10	64QAM	1	0	16.33	16.45	16.36	18
10	64QAM	1	25	16.34	16.38	16.30	
10	64QAM	1	49	16.35	16.25	16.20	
10	64QAM	25	0	15.70	15.80	15.66	17
10	64QAM	25	12	15.78	15.82	15.67	
10	64QAM	25	25	15.53	15.55	15.52	
10	64QAM	50	0	15.46	15.61	15.58	
	Channel			19975	20175	20375	Tune-up limit (dBm)
	Frequency (MHz)			1712.5	1732.5	1752.5	
5	QPSK	1	0	18.27	18.38	18.35	20
5	QPSK	1	12	18.19	18.26	18.23	
5	QPSK	1	24	18.14	18.29	18.25	
5	QPSK	12	0	17.28	17.34	17.30	19
5	QPSK	12	7	17.10	17.22	17.11	
5	QPSK	12	13	17.15	17.18	17.15	
5	QPSK	25	0	17.19	17.23	17.14	
5	16QAM	1	0	17.40	17.35	17.32	19
5	16QAM	1	12	17.20	17.34	17.25	
5	16QAM	1	24	17.25	17.27	17.16	
5	16QAM	12	0	16.22	16.37	16.26	18
5	16QAM	12	7	16.30	16.40	16.17	
5	16QAM	12	13	16.30	16.09	16.15	
5	16QAM	25	0	16.00	16.01	16.11	
5	64QAM	1	0	16.25	16.37	16.28	18
5	64QAM	1	12	16.26	16.30	16.22	
5	64QAM	1	24	16.27	16.17	16.12	
5	64QAM	12	0	15.62	15.72	15.58	17
5	64QAM	12	7	15.70	15.74	15.59	
5	64QAM	12	13	15.45	15.47	15.44	
5	64QAM	25	0	15.38	15.53	15.50	
	Channel			19965	20175	20385	Tune-up limit (dBm)
	Frequency (MHz)			1711.5	1732.5	1753.5	
3	QPSK	1	0	18.20	18.31	18.28	20
3	QPSK	1	8	18.12	18.19	18.16	
3	QPSK	1	14	18.07	18.22	18.18	
3	QPSK	8	0	17.21	17.27	17.23	19
3	QPSK	8	4	17.03	17.15	17.04	
3	QPSK	8	7	17.08	17.11	17.08	
3	QPSK	15	0	17.12	17.16	17.07	

Left table

							Tune-up limit (dBm)
3	16QAM	1	0	17.42	17.48	17.27	19
3	16QAM	1	8	17.26	17.36	17.19	
3	16QAM	1	14	17.19	17.16	17.17	
3	16QAM	8	0	16.42	16.47	16.25	18
3	16QAM	8	4	16.25	16.35	16.23	
3	16QAM	8	7	16.22	16.39	16.12	
3	16QAM	15	0	16.30	16.29	16.12	
3	64QAM	1	0	16.45	16.46	16.26	18
3	64QAM	1	8	16.15	16.43	16.11	
3	64QAM	1	14	16.14	16.14	16.22	
3	64QAM	8	0	15.78	15.82	15.65	17
3	64QAM	8	4	15.60	15.70	15.53	
3	64QAM	8	7	15.58	15.73	15.51	
3	64QAM	15	0	15.50	15.61	15.62	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.36	18.43	18.38	20
1.4	QPSK	1	3	18.31	18.41	18.13	
1.4	QPSK	1	5	18.21	18.27	18.25	
1.4	QPSK	3	0	17.25	17.46	17.27	
1.4	QPSK	3	1	17.33	17.26	17.32	
1.4	QPSK	3	3	17.27	17.28	17.24	
1.4	QPSK	6	0	17.28	17.27	17.06	19
1.4	16QAM	1	0	17.50	17.50	17.38	19
1.4	16QAM	1	3	17.42	17.29	17.29	
1.4	16QAM	1	5	17.19	17.28	17.24	
1.4	16QAM	3	0	16.35	16.47	16.31	
1.4	16QAM	3	1	16.34	16.36	16.25	
1.4	16QAM	3	3	16.34	16.31	16.34	
1.4	16QAM	6	0	16.28	16.15	16.08	18
1.4	64QAM	1	0	16.43	16.54	16.39	18
1.4	64QAM	1	3	16.24	16.25	16.24	
1.4	64QAM	1	5	16.23	16.33	16.19	
1.4	64QAM	3	0	15.75	15.72	15.54	
1.4	64QAM	3	1	15.72	15.58	15.67	
1.4	64QAM	3	3	15.54	15.73	15.67	
1.4	64QAM	6	0	15.61	15.45	15.65	17

Right table

							Tune-up limit (dBm)
3	16QAM	1	0	17.33	17.28	17.25	19
3	16QAM	1	8	17.13	17.27	17.18	
3	16QAM	1	14	17.18	17.20	17.09	
3	16QAM	8	0	16.15	16.30	16.19	18
3	16QAM	8	4	16.23	16.33	16.10	
3	16QAM	8	7	16.23	16.02	16.08	
3	16QAM	15	0	15.93	15.94	16.04	
3	64QAM	1	0	16.18	16.30	16.21	18
3	64QAM	1	8	16.19	16.23	16.15	
3	64QAM	1	14	16.20	16.10	16.05	
3	64QAM	8	0	15.55	15.65	15.51	17
3	64QAM	8	4	15.63	15.67	15.52	
3	64QAM	8	7	15.38	15.40	15.37	
3	64QAM	15	0	15.31	15.46	15.43	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.06	18.17	18.14	20
1.4	QPSK	1	3	17.98	18.05	18.02	
1.4	QPSK	1	5	17.93	18.08	18.04	
1.4	QPSK	3	0	17.07	17.13	17.09	
1.4	QPSK	3	1	16.89	17.01	16.90	
1.4	QPSK	3	3	16.94	16.97	16.94	
1.4	QPSK	6	0	16.98	17.02	16.93	19
1.4	16QAM	1	0	17.19	17.14	17.11	19
1.4	16QAM	1	3	16.99	17.13	17.04	
1.4	16QAM	1	5	17.04	17.06	16.95	
1.4	16QAM	3	0	16.01	16.16	16.05	
1.4	16QAM	3	1	16.09	16.19	15.96	
1.4	16QAM	3	3	16.09	15.88	15.94	
1.4	16QAM	6	0	15.79	15.80	15.90	18
1.4	64QAM	1	0	16.04	16.16	16.07	18
1.4	64QAM	1	3	16.05	16.09	16.01	
1.4	64QAM	1	5	16.06	15.96	15.91	
1.4	64QAM	3	0	15.41	15.51	15.37	
1.4	64QAM	3	1	15.49	15.53	15.38	
1.4	64QAM	3	3	15.24	15.26	15.23	
1.4	64QAM	6	0	15.17	15.32	15.29	17

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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	15.92	15.98	15.95	17
20	QPSK	1	49	15.85	15.86	15.79	17
20	QPSK	1	99	15.69	15.80	15.68	17
20	QPSK	50	0	15.02	15.03	15.02	16
20	QPSK	50	24	14.92	14.84	14.93	16
20	QPSK	50	50	14.95	14.97	14.86	16
20	QPSK	100	0	14.83	14.87	14.80	16
20	16QAM	1	0	15.03	15.09	14.89	16
20	16QAM	1	49	15.07	14.83	14.83	16
20	16QAM	1	99	14.94	14.86	14.80	16
20	16QAM	50	0	13.95	14.02	13.85	15
20	16QAM	50	24	13.85	13.92	13.89	15
20	16QAM	50	50	13.80	13.78	13.72	15
20	16QAM	100	0	13.87	13.84	13.80	15
20	64QAM	1	0	13.94	13.97	13.84	15
20	64QAM	1	49	13.85	14.02	13.75	15
20	64QAM	1	99	13.94	13.77	13.82	15
20	64QAM	50	0	13.32	13.45	13.24	14
20	64QAM	50	24	13.37	13.40	13.19	14
20	64QAM	50	50	13.10	13.31	13.19	14
20	64QAM	100	0	13.12	13.09	13.22	14
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	15.90	15.96	15.93	17
15	QPSK	1	37	15.83	15.84	15.77	17
15	QPSK	1	74	15.67	15.78	15.66	17
15	QPSK	36	0	15.00	15.01	15.00	16
15	QPSK	36	20	14.90	14.82	14.91	16
15	QPSK	36	39	14.93	14.95	14.84	16
15	QPSK	75	0	14.81	14.85	14.78	16
15	16QAM	1	0	15.01	15.07	14.87	16
15	16QAM	1	37	15.05	14.81	14.81	16
15	16QAM	1	74	14.92	14.84	14.78	16
15	16QAM	36	0	13.93	14.00	13.83	15
15	16QAM	36	20	13.83	13.90	13.87	15
15	16QAM	36	39	13.78	13.76	13.70	15
15	16QAM	75	0	13.85	13.82	13.78	15
15	64QAM	1	0	13.92	13.95	13.82	15
15	64QAM	1	37	13.83	14.00	13.73	15
15	64QAM	1	74	13.92	13.75	13.80	15
15	64QAM	36	0	13.30	13.43	13.22	14
15	64QAM	36	20	13.35	13.38	13.17	14
15	64QAM	36	39	13.08	13.29	13.17	14
15	64QAM	75	0	13.10	13.07	13.20	14
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	15.88	15.94	15.91	17
10	QPSK	1	25	15.81	15.82	15.75	17
10	QPSK	1	49	15.65	15.76	15.64	17
10	QPSK	25	0	14.98	14.99	14.98	16
10	QPSK	25	12	14.88	14.80	14.89	16
10	QPSK	25	25	14.91	14.93	14.82	16
10	QPSK	50	0	14.79	14.83	14.76	16
10	16QAM	1	0	14.99	15.05	14.85	16
10	16QAM	1	25	15.03	14.79	14.79	16
10	16QAM	1	49	14.90	14.82	14.76	16
10	16QAM	25	0	13.91	13.98	13.81	15
10	16QAM	25	12	13.81	13.88	13.85	15
10	16QAM	25	25	13.76	13.74	13.68	15
10	16QAM	50	0	13.83	13.80	13.76	15
10	64QAM	1	0	13.90	13.93	13.80	15
10	64QAM	1	25	13.81	13.98	13.71	15
10	64QAM	1	49	13.90	13.73	13.78	15
10	64QAM	25	0	13.28	13.41	13.20	14
10	64QAM	25	12	13.33	13.36	13.15	14
10	64QAM	25	25	13.06	13.27	13.15	14
10	64QAM	50	0	13.08	13.05	13.18	14
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	15.83	15.89	15.86	17
5	QPSK	1	12	15.76	15.77	15.70	17
5	QPSK	1	24	15.60	15.71	15.59	17
5	QPSK	12	0	14.93	14.94	14.93	16
5	QPSK	12	7	14.83	14.75	14.84	16
5	QPSK	12	13	14.86	14.88	14.77	16
5	QPSK	25	0	14.74	14.78	14.71	16
5	16QAM	1	0	14.94	15.00	14.80	16
5	16QAM	1	12	14.98	14.74	14.74	16
5	16QAM	1	24	14.85	14.77	14.71	16
5	16QAM	12	0	13.86	13.93	13.76	15
5	16QAM	12	7	13.76	13.83	13.80	15
5	16QAM	12	13	13.71	13.69	13.63	15
5	16QAM	25	0	13.78	13.75	13.71	15
5	64QAM	1	0	13.85	13.88	13.75	15
5	64QAM	1	12	13.76	13.93	13.66	15
5	64QAM	1	24	13.85	13.68	13.73	15
5	64QAM	12	0	13.23	13.36	13.15	14
5	64QAM	12	7	13.28	13.31	13.10	14
5	64QAM	12	13	13.01	13.22	13.10	14
5	64QAM	25	0	13.03	13.00	13.13	14

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	18.77	18.79	18.65	
20	QPSK	1	49	18.62	18.67	18.49	20
20	QPSK	1	99	18.54	18.60	18.53	
20	QPSK	50	0	17.55	17.58	17.52	
20	QPSK	50	24	17.44	17.48	17.37	19
20	QPSK	50	50	17.30	17.41	17.32	
20	QPSK	100	0	17.52	17.56	17.41	
20	16QAM	1	0	17.71	17.74	17.56	
20	16QAM	1	49	17.51	17.68	17.49	19
20	16QAM	1	99	17.42	17.63	17.37	
20	16QAM	50	0	16.61	16.75	16.72	
20	16QAM	50	24	16.59	16.63	16.65	18
20	16QAM	50	50	16.45	16.42	16.46	
20	16QAM	100	0	16.42	16.36	16.36	
20	64QAM	1	0	16.55	16.71	16.64	
20	64QAM	1	49	16.43	16.65	16.42	18
20	64QAM	1	99	16.44	16.51	16.35	
20	64QAM	50	0	15.99	15.92	15.98	
20	64QAM	50	24	15.94	15.82	15.91	17
20	64QAM	50	50	15.81	15.86	15.85	
20	64QAM	100	0	15.73	15.72	15.85	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.69	18.71	18.57	
15	QPSK	1	37	18.54	18.59	18.41	20
15	QPSK	1	74	18.46	18.52	18.45	
15	QPSK	36	0	17.47	17.50	17.44	
15	QPSK	36	20	17.36	17.40	17.29	19
15	QPSK	36	39	17.22	17.33	17.24	
15	QPSK	75	0	17.44	17.48	17.33	
15	16QAM	1	0	17.63	17.66	17.48	
15	16QAM	1	37	17.43	17.60	17.41	19
15	16QAM	1	74	17.34	17.55	17.29	
15	16QAM	36	0	16.53	16.67	16.64	
15	16QAM	36	20	16.51	16.55	16.57	18
15	16QAM	36	39	16.37	16.34	16.38	
15	16QAM	75	0	16.34	16.28	16.28	
15	64QAM	1	0	16.47	16.63	16.56	
15	64QAM	1	37	16.35	16.57	16.34	18
15	64QAM	1	74	16.36	16.43	16.27	
15	64QAM	36	0	15.91	15.84	15.90	
15	64QAM	36	20	15.86	15.74	15.83	17
15	64QAM	36	39	15.73	15.78	15.77	
15	64QAM	75	0	15.65	15.64	15.77	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.61	18.63	18.49	
10	QPSK	1	25	18.46	18.51	18.33	20
10	QPSK	1	49	18.38	18.44	18.37	
10	QPSK	25	0	17.39	17.42	17.36	
10	QPSK	25	12	17.28	17.32	17.21	19
10	QPSK	25	25	17.14	17.25	17.16	
10	QPSK	50	0	17.36	17.40	17.25	
10	16QAM	1	0	17.55	17.58	17.40	
10	16QAM	1	25	17.35	17.52	17.33	19
10	16QAM	1	49	17.26	17.47	17.21	
10	16QAM	25	0	16.45	16.59	16.56	
10	16QAM	25	12	16.43	16.47	16.49	18
10	16QAM	25	25	16.29	16.26	16.30	
10	16QAM	50	0	16.26	16.20	16.20	
10	64QAM	1	0	16.39	16.55	16.48	
10	64QAM	1	25	16.27	16.49	16.26	18
10	64QAM	1	49	16.28	16.35	16.19	
10	64QAM	25	0	15.83	15.76	15.82	
10	64QAM	25	12	15.78	15.66	15.75	17
10	64QAM	25	25	15.65	15.70	15.69	
10	64QAM	50	0	15.57	15.56	15.69	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	18.52	18.54	18.40	
5	QPSK	1	12	18.37	18.42	18.24	20
5	QPSK	1	24	18.29	18.35	18.28	
5	QPSK	12	0	17.30	17.33	17.27	
5	QPSK	12	7	17.19	17.23	17.12	19
5	QPSK	12	13	17.05	17.16	17.07	
5	QPSK	25	0	17.27	17.31	17.16	
5	16QAM	1	0	17.46	17.49	17.31	
5	16QAM	1	12	17.26	17.43	17.24	19
5	16QAM	1	24	17.17	17.38	17.12	
5	16QAM	12	0	16.36	16.50	16.47	
5	16QAM	12	7	16.34	16.38	16.40	18
5	16QAM	12	13	16.20	16.17	16.21	
5	16QAM	25	0	16.17	16.11	16.11	
5	64QAM	1	0	16.30	16.46	16.39	
5	64QAM	1	12	16.18	16.40	16.17	18
5	64QAM	1	24	16.19	16.26	16.10	
5	64QAM	12	0	15.74	15.67	15.73	
5	64QAM	12	7	15.69	15.57	15.66	17
5	64QAM	12	13	15.56	15.61	15.60	
5	64QAM	25	0	15.48	15.47	15.60	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.43	18.45	18.31	
3	QPSK	1	8	18.28	18.33	18.15	20
3	QPSK	1	14	18.20	18.26	18.19	
3	QPSK	8	0	17.21	17.24	17.18	
3	QPSK	8	4	17.10	17.14	17.03	19
3	QPSK	8	7	17.35	17.07	17.37	
3	QPSK	15	0	17.18	17.22	17.07	

							Tune-up limit (dBm)
3	16QAM	1	0	17.37	17.40	17.22	19
3	16QAM	1	8	17.17	17.34	17.15	
3	16QAM	1	14	17.08	17.29	17.03	
3	16QAM	8	0	16.27	16.41	16.38	18
3	16QAM	8	4	16.25	16.29	16.31	
3	16QAM	8	7	16.11	16.08	16.12	
3	16QAM	15	0	16.08	16.02	16.02	
3	64QAM	1	0	16.21	16.37	16.30	18
3	64QAM	1	8	16.09	16.31	16.08	
3	64QAM	1	14	16.10	16.17	16.01	
3	64QAM	8	0	15.65	15.58	15.64	17
3	64QAM	8	4	15.60	15.48	15.57	
3	64QAM	8	7	15.47	15.52	15.51	
3	64QAM	15	0	15.39	15.38	15.51	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.34	18.36	18.22	20
1.4	QPSK	1	3	18.19	18.24	18.06	
1.4	QPSK	1	5	18.11	18.17	18.10	
1.4	QPSK	3	0	18.29	18.32	18.26	
1.4	QPSK	3	1	18.18	18.22	18.11	
1.4	QPSK	3	3	18.04	18.15	18.06	
1.4	QPSK	6	0	17.48	17.52	17.37	19
1.4	16QAM	1	0	17.67	17.70	17.52	19
1.4	16QAM	1	3	17.47	17.64	17.45	
1.4	16QAM	1	5	17.38	17.59	17.33	
1.4	16QAM	3	0	17.35	17.49	17.46	
1.4	16QAM	3	1	17.33	17.37	17.39	
1.4	16QAM	3	3	17.19	17.16	17.20	
1.4	16QAM	6	0	16.38	16.32	16.32	18
1.4	64QAM	1	0	16.51	16.67	16.60	18
1.4	64QAM	1	3	16.39	16.61	16.38	
1.4	64QAM	1	5	16.40	16.47	16.31	
1.4	64QAM	3	0	16.34	16.27	16.33	
1.4	64QAM	3	1	16.29	16.17	16.26	
1.4	64QAM	3	3	16.16	16.21	16.20	
1.4	64QAM	6	0	15.30	15.29	15.42	17