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	32.48	32.52	32.46	33.50	23.48	23.52	23.46	24.50
GPRS 1 Tx slot	32.44	32.48	32.45	33.50	23.44	23.48	23.45	24.50
GPRS 2 Tx slots	30.84	30.90	30.84	32.00	24.84	24.90	24.84	26.00
GPRS 3 Tx slots	28.82	28.90	28.85	29.50	24.56	24.64	24.59	25.24
GPRS 4 Tx slots	27.08	27.12	27.08	28.00	24.08	24.12	24.08	25.00
EDGE 1 Tx slot	26.12	26.21	26.16	27.00	17.12	17.21	17.16	18.00
EDGE 2 Tx slots	24.53	24.57	24.48	26.00	18.53	18.57	18.48	20.00
EDGE 3 Tx slots	22.83	22.91	22.87	24.00	18.57	18.65	18.61	19.74
EDGE 4 Tx slots	21.04	21.07	21.04	22.00	18.04	18.07	18.04	19.00
Mode		Max.	32.52			Max.	24.90	
Attenuator	Cable Loss :							
Date								

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	29.32	29.40	29.33	30.50	20.32	20.40	20.33	21.50
GPRS 1 Tx slot	29.29	29.36	29.29	30.50	20.29	20.36	20.29	21.50
GPRS 2 Tx slots	28.00	28.07	28.04	28.50	22.00	22.07	22.04	22.50
GPRS 3 Tx slots	26.24	26.31	26.20	27.50	21.98	22.05	21.94	23.24
GPRS 4 Tx slots	24.63	24.70	24.66	25.50	21.63	21.70	21.66	22.50
EDGE 1 Tx slot	25.54	25.62	25.56	26.50	16.54	16.62	16.56	17.50
EDGE 2 Tx slots	23.88	23.97	23.89	25.00	17.88	17.97	17.89	19.00
EDGE 3 Tx slots	21.57	21.62	21.57	23.00	17.31	17.36	17.31	18.74
EDGE 4 Tx slots	20.28	20.33	20.28	21.00	17.28	17.33	17.28	18.00
Mode		Max.	29.40			Max.	22.07	
Attenuator	Cable Loss :							
Date								

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.20	23.22	23.17	24.00	22.81	22.92	22.87	24.00	23.88	23.91	23.90	25.00
3GPP Rel 5	HSDPA Subtest-1	22.23	22.21	22.22	23.00	21.97	21.71	22.13	23.00	22.68	22.69	22.53	23.50
3GPP Rel 5	HSDPA Subtest-2	22.24	22.22	22.18	23.00	22.01	21.78	22.12	23.00	22.58	22.55	22.61	23.50
3GPP Rel 5	HSDPA Subtest-3	21.74	21.74	21.75	22.50	21.98	21.79	22.10	22.50	22.65	22.61	22.71	23.00
3GPP Rel 5	HSDPA Subtest-4	21.76	21.76	21.78	22.50	22.03	21.84	22.15	22.50	22.72	22.66	22.75	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.90	22.73	22.70	24.00	22.79	22.71	22.85	23.50	23.55	23.51	23.41	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	23.05	22.79	22.73	24.00	22.82	22.78	22.85	23.50	23.58	23.56	23.49	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	23.06	22.80	22.74	23.50	22.83	22.79	22.84	23.00	23.63	23.59	23.47	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	23.07	22.79	22.76	23.50	22.82	22.79	22.90	23.00	23.63	23.59	23.50	24.00
3GPP Rel 6	HSUPA Subtest-1	23.05	22.77	22.84	24.00	22.88	22.82	22.90	24.00	23.71	23.70	23.70	24.50
3GPP Rel 6	HSUPA Subtest-2	23.00	22.78	22.79	24.00	22.85	22.79	22.88	24.00	23.66	23.66	23.56	24.50
3GPP Rel 6	HSUPA Subtest-3	23.04	22.77	22.85	24.00	22.85	22.82	22.85	24.00	23.71	23.70	23.49	24.50
3GPP Rel 6	HSUPA Subtest-4	22.92	22.76	22.75	24.00	22.83	22.79	22.84	24.00	23.64	23.64	23.54	24.50
3GPP Rel 6	HSUPA Subtest-5	23.01	22.77	22.79	24.00	22.84	22.84	22.90	24.00	23.71	23.69	23.52	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	23.02	22.73	22.81	24.00	22.79	22.75	22.83	24.00	23.72	23.67	23.53	24.50
Mode			Max.	23.22			Max.	22.92			Max.	23.91	

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	23.05	23.10	23.03	24
20	QPSK	1	49	22.86	22.95	22.84	
20	QPSK	1	99	22.68	22.73	22.70	
20	QPSK	50	0	21.92	21.97	21.91	23
20	QPSK	50	24	21.74	21.82	21.81	
20	QPSK	50	50	21.62	21.64	21.66	
20	QPSK	100	0	21.48	21.53	21.47	
20	16QAM	1	0	21.94	22.02	21.86	23
20	16QAM	1	49	21.81	21.90	21.64	
20	16QAM	1	99	21.59	21.72	21.53	
20	16QAM	50	0	20.76	20.93	20.71	22
20	16QAM	50	24	20.60	20.82	20.58	
20	16QAM	50	50	20.45	20.68	20.38	
20	16QAM	100	0	20.25	20.57	20.18	
20	64QAM	1	0	20.70	21.00	20.72	22
20	64QAM	1	49	20.53	20.97	20.71	
20	64QAM	1	99	20.49	20.96	20.69	
20	64QAM	50	0	19.79	20.30	19.99	21
20	64QAM	50	24	19.75	20.29	19.91	
20	64QAM	50	50	19.69	20.26	19.85	
20	64QAM	100	0	19.67	20.23	19.84	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.98	23.06	22.98	24
15	QPSK	1	37	22.79	22.86	22.81	
15	QPSK	1	74	22.61	22.68	22.64	
15	QPSK	36	0	21.83	21.90	21.87	23
15	QPSK	36	20	21.70	21.77	21.73	
15	QPSK	36	39	21.54	21.57	21.59	
15	QPSK	75	0	21.44	21.44	21.39	
15	16QAM	1	0	21.86	21.95	21.81	23
15	16QAM	1	37	21.78	21.83	21.59	
15	16QAM	1	74	21.55	21.67	21.49	
15	16QAM	36	0	20.71	20.88	20.65	22
15	16QAM	36	20	20.54	20.78	20.54	
15	16QAM	36	39	20.40	20.60	20.34	
15	16QAM	75	0	20.21	20.51	20.13	
15	64QAM	1	0	20.62	20.92	20.68	22
15	64QAM	1	37	20.45	20.90	20.62	
15	64QAM	1	74	20.43	20.93	20.66	
15	64QAM	36	0	19.72	20.25	19.95	21
15	64QAM	36	20	19.68	20.25	19.88	
15	64QAM	36	39	19.61	20.20	19.80	
15	64QAM	75	0	19.59	20.15	19.80	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.95	22.98	22.91	24
10	QPSK	1	25	22.75	22.84	22.71	
10	QPSK	1	49	22.58	22.61	22.60	
10	QPSK	25	0	21.79	21.83	21.77	23
10	QPSK	25	12	21.62	21.72	21.67	
10	QPSK	25	25	21.51	21.52	21.58	
10	QPSK	50	0	21.36	21.41	21.35	
10	16QAM	1	0	21.83	21.88	21.72	23
10	16QAM	1	25	21.70	21.75	21.53	
10	16QAM	1	49	21.50	21.60	21.43	
10	16QAM	25	0	20.66	20.81	20.61	22
10	16QAM	25	12	20.49	20.66	20.44	
10	16QAM	25	25	20.35	20.52	20.24	
10	16QAM	50	0	20.14	20.44	20.08	
10	64QAM	1	0	20.56	20.87	20.59	22
10	64QAM	1	25	20.46	20.83	20.63	
10	64QAM	1	49	20.40	20.82	20.60	
10	64QAM	25	0	19.64	20.18	19.84	21
10	64QAM	25	12	19.61	20.15	19.78	
10	64QAM	25	25	19.59	20.13	19.72	
10	64QAM	50	0	19.57	20.12	19.68	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.96	22.99	22.89	24
5	QPSK	1	12	22.73	22.85	22.71	
5	QPSK	1	24	22.53	22.63	22.59	
5	QPSK	12	0	21.80	21.86	21.76	23
5	QPSK	12	7	21.58	21.71	21.71	
5	QPSK	12	13	21.49	21.52	21.53	
5	QPSK	25	0	21.39	21.39	21.34	
5	16QAM	1	0	21.81	21.91	21.72	23
5	16QAM	1	12	21.69	21.76	21.50	
5	16QAM	1	24	21.46	21.61	21.42	
5	16QAM	12	0	20.64	20.81	20.60	22
5	16QAM	12	7	20.47	20.69	20.44	
5	16QAM	12	13	20.35	20.52	20.24	
5	16QAM	25	0	20.10	20.42	20.07	
5	64QAM	1	0	20.58	20.88	20.59	22
5	64QAM	1	12	20.41	20.86	20.64	
5	64QAM	1	24	20.41	20.80	20.62	
5	64QAM	12	0	19.66	20.16	19.86	21
5	64QAM	12	7	19.60	20.17	19.78	
5	64QAM	12	13	19.55	20.13	19.76	
5	64QAM	25	0	19.55	20.12	19.69	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.99	23.02	22.96	24
3	QPSK	1	8	22.81	22.87	22.76	
3	QPSK	1	14	22.61	22.66	22.61	
3	QPSK	8	0	21.85	21.88	21.84	23
3	QPSK	8	4	21.68	21.79	21.74	

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	22.68	22.73	22.67	23.5
20	QPSK	1	49	22.55	22.51	22.57	
20	QPSK	1	99	22.34	22.36	22.37	
20	QPSK	50	0	21.61	21.65	21.63	22.5
20	QPSK	50	24	21.46	21.47	21.46	
20	QPSK	50	50	21.32	21.34	21.33	
20	QPSK	100	0	21.16	21.20	21.18	
20	16QAM	1	0	21.60	21.55	21.57	22.5
20	16QAM	1	49	21.40	21.38	21.45	
20	16QAM	1	99	21.21	21.26	21.34	
20	16QAM	50	0	20.40	20.47	20.57	21.5
20	16QAM	50	24	20.28	20.32	20.44	
20	16QAM	50	50	20.15	20.19	20.28	
20	16QAM	100	0	20.00	20.01	20.09	
20	64QAM	1	0	20.48	20.50	20.54	21.5
20	64QAM	1	49	20.47	20.49	20.53	
20	64QAM	1	99	20.45	20.42	20.52	
20	64QAM	50	0	19.76	19.72	19.84	20.5
20	64QAM	50	24	19.73	19.68	19.81	
20	64QAM	50	50	19.67	19.64	19.76	
20	64QAM	100	0	19.66	19.59	19.73	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.63	22.69	22.63	23.5
15	QPSK	1	37	22.50	22.47	22.54	
15	QPSK	1	74	22.25	22.29	22.30	
15	QPSK	36	0	21.57	21.52	21.58	22.5
15	QPSK	36	20	21.42	21.39	21.43	
15	QPSK	36	39	21.27	21.28	21.27	
15	QPSK	75	0	21.12	21.12	21.12	
15	16QAM	1	0	21.57	21.47	21.51	22.5
15	16QAM	1	37	21.35	21.29	21.39	
15	16QAM	1	74	21.16	21.18	21.28	
15	16QAM	36	0	20.31	20.44	20.51	21.5
15	16QAM	36	20	20.21	20.28	20.37	
15	16QAM	36	39	20.11	20.10	20.20	
15	16QAM	75	0	19.96	19.94	20.03	
15	64QAM	1	0	20.45	20.46	20.49	21.5
15	64QAM	1	37	20.40	20.42	20.48	
15	64QAM	1	74	20.38	20.39	20.45	
15	64QAM	36	0	19.69	19.66	19.77	20.5
15	64QAM	36	20	19.68	19.65	19.77	
15	64QAM	36	39	19.63	19.56	19.69	
15	64QAM	75	0	19.60	19.51	19.67	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.53	22.58	22.57	23.5
10	QPSK	1	25	22.43	22.45	22.45	
10	QPSK	1	49	22.27	22.21	22.24	
10	QPSK	25	0	21.52	21.44	21.51	22.5
10	QPSK	25	12	21.37	21.37	21.30	
10	QPSK	25	25	21.21	21.18	21.24	
10	QPSK	50	0	21.00	21.02	21.09	
10	16QAM	1	0	21.48	21.43	21.47	22.5
10	16QAM	1	25	21.31	21.26	21.33	
10	16QAM	1	49	21.08	21.15	21.20	
10	16QAM	25	0	20.31	20.38	20.49	21.5
10	16QAM	25	12	20.17	20.20	20.36	
10	16QAM	25	25	20.00	20.04	20.16	
10	16QAM	50	0	19.83	19.91	20.00	
10	64QAM	1	0	20.40	20.37	20.43	21.5
10	64QAM	1	25	20.31	20.34	20.43	
10	64QAM	1	49	20.33	20.30	20.36	
10	64QAM	25	0	19.65	19.62	19.72	20.5
10	64QAM	25	12	19.62	19.57	19.74	
10	64QAM	25	25	19.54	19.52	19.70	
10	64QAM	50	0	19.51	19.44	19.63	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.56	22.61	22.57	23.5
5	QPSK	1	12	22.40	22.42	22.49	
5	QPSK	1	24	22.24	22.25	22.22	
5	QPSK	12	0	21.50	21.45	21.51	22.5
5	QPSK	12	7	21.36	21.39	21.31	
5	QPSK	12	13	21.20	21.23	21.22	
5	QPSK	25	0	21.00	21.05	21.08	
5	16QAM	1	0	21.50	21.40	21.42	22.5
5	16QAM	1	12	21.28	21.26	21.34	
5	16QAM	1	24	21.04	21.12	21.25	
5	16QAM	12	0	20.30	20.35	20.48	21.5
5	16QAM	12	7	20.13	20.20	20.36	
5	16QAM	12	13	20.00	20.04	20.14	
5	16QAM	25	0	19.87	19.91	20.00	
5	64QAM	1	0	20.37	20.38	20.43	21.5
5	64QAM	1	12	20.36	20.33	20.45	
5	64QAM	1	24	20.37	20.25	20.38	
5	64QAM	12	0	19.67	19.64	19.74	20.5
5	64QAM	12	7	19.60	19.57	19.69	
5	64QAM	12	13	19.56	19.48	19.67	
5	64QAM	25	0	19.49	19.42	19.62	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.54	22.59	22.56	23.5
3	QPSK	1	8	22.45	22.40	22.46	
3	QPSK	1	14	22.28	22.22	22.21	
3	QPSK	8	0	21.53	21.43	21.52	22.5
3	QPSK	8	4	21.38	21.39	21.35	

3	QPSK	8	7	21.55	21.56	21.63	[illegible]
3	QPSK	15	0	21.42	21.47	21.43	
3	16QAM	1	0	21.90	21.99	21.80	23
3	16QAM	1	8	21.73	21.83	21.58	
3	16QAM	1	14	21.50	21.64	21.49	
3	16QAM	8	0	20.68	20.86	20.65	22
3	16QAM	8	4	20.52	20.74	20.52	
3	16QAM	8	7	20.40	20.61	20.32	
3	16QAM	15	0	20.21	20.51	20.11	
3	64QAM	1	0	20.61	20.92	20.65	22
3	64QAM	1	8	20.50	20.91	20.63	
3	64QAM	1	14	20.42	20.91	20.61	
3	64QAM	8	0	19.71	20.23	19.95	21
3	64QAM	8	4	19.68	20.23	19.85	
3	64QAM	8	7	19.60	20.19	19.79	
3	64QAM	15	0	19.63	20.18	19.80	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.93	22.97	22.91	24
1.4	QPSK	1	3	22.75	22.82	22.75	
1.4	QPSK	1	5	22.58	22.61	22.59	
1.4	QPSK	3	0	21.80	21.80	21.77	
1.4	QPSK	3	1	21.58	21.73	21.71	
1.4	QPSK	3	3	21.50	21.56	21.55	
1.4	QPSK	6	0	21.37	21.39	21.36	23
1.4	16QAM	1	0	21.80	21.89	21.77	23
1.4	16QAM	1	3	21.68	21.79	21.53	
1.4	16QAM	1	5	21.50	21.61	21.44	
1.4	16QAM	3	0	20.67	20.79	20.60	
1.4	16QAM	3	1	20.47	20.69	20.43	
1.4	16QAM	3	3	20.37	20.53	20.22	
1.4	16QAM	6	0	20.15	20.44	20.11	22
1.4	64QAM	1	0	20.59	20.86	20.63	22
1.4	64QAM	1	3	20.42	20.88	20.62	
1.4	64QAM	1	5	20.37	20.81	20.58	
1.4	64QAM	3	0	19.68	20.17	19.87	
1.4	64QAM	3	1	19.59	20.13	19.76	
1.4	64QAM	3	3	19.55	20.12	19.75	
1.4	64QAM	6	0	19.57	20.12	19.68	21

3	QPSK	8	7	21.18	21.21	21.20	[illegible]
3	QPSK	15	0	21.01	21.01	21.08	
3	16QAM	1	0	21.49	21.41	21.42	22.5
3	16QAM	1	8	21.30	21.24	21.34	
3	16QAM	1	14	21.08	21.14	21.22	
3	16QAM	8	0	20.28	20.40	20.46	21.5
3	16QAM	8	4	20.13	20.22	20.37	
3	16QAM	8	7	20.05	20.08	20.13	
3	16QAM	15	0	19.85	19.88	19.95	
3	64QAM	1	0	20.39	20.39	20.40	21.5
3	64QAM	1	8	20.32	20.38	20.42	
3	64QAM	1	14	20.36	20.29	20.36	
3	64QAM	8	0	19.65	19.59	19.75	20.5
3	64QAM	8	4	19.58	19.59	19.74	
3	64QAM	8	7	19.54	19.47	19.69	
3	64QAM	15	0	19.51	19.45	19.64	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.55	22.62	22.54	23.5
1.4	QPSK	1	3	22.45	22.41	22.49	
1.4	QPSK	1	5	22.24	22.26	22.25	
1.4	QPSK	3	0	21.48	21.42	21.51	
1.4	QPSK	3	1	21.35	21.35	21.35	
1.4	QPSK	3	3	21.20	21.18	21.24	
1.4	QPSK	6	0	21.01	21.05	21.09	22.5
1.4	16QAM	1	0	21.52	21.39	21.43	22.5
1.4	16QAM	1	3	21.31	21.26	21.31	
1.4	16QAM	1	5	21.04	21.15	21.25	
1.4	16QAM	3	0	20.27	20.38	20.44	
1.4	16QAM	3	1	20.16	20.19	20.37	
1.4	16QAM	3	3	20.01	20.04	20.15	
1.4	16QAM	6	0	19.85	19.89	19.95	21.5
1.4	64QAM	1	0	20.39	20.39	20.41	21.5
1.4	64QAM	1	3	20.34	20.37	20.44	
1.4	64QAM	1	5	20.33	20.28	20.40	
1.4	64QAM	3	0	19.67	19.62	19.74	
1.4	64QAM	3	1	19.60	19.61	19.72	
1.4	64QAM	3	3	19.55	19.53	19.67	
1.4	64QAM	6	0	19.49	19.47	19.61	20.5

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.86	23.88	23.87	24.8
10	QPSK	1	25	23.75	23.72	23.67	
10	QPSK	1	49	23.61	23.52	23.50	
10	QPSK	25	0	22.82	22.83	22.77	23.8
10	QPSK	25	12	22.65	22.60	22.52	
10	QPSK	25	25	22.52	22.41	22.40	
10	QPSK	50	0	22.41	22.44	22.35	
10	16QAM	1	0	22.80	22.62	22.61	23.8
10	16QAM	1	25	22.61	22.48	22.49	
10	16QAM	1	49	22.43	22.36	22.35	
10	16QAM	25	0	21.67	21.56	21.51	22.8
10	16QAM	25	12	21.56	21.37	21.31	
10	16QAM	25	25	21.44	21.23	21.20	
10	16QAM	50	0	21.30	21.11	21.09	
10	64QAM	1	0	20.81	20.65	20.63	22.3
10	64QAM	1	25	20.72	20.64	20.59	
10	64QAM	1	49	20.68	20.63	20.56	
10	64QAM	25	0	20.02	20.00	19.89	21.3
10	64QAM	25	12	19.99	20.00	19.82	
10	64QAM	25	25	19.91	19.98	19.80	
10	64QAM	50	0	18.84	18.95	18.79	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.81	23.79	23.78	24.8
5	QPSK	1	12	23.71	23.69	23.63	
5	QPSK	1	24	23.56	23.48	23.44	
5	QPSK	12	0	22.74	22.70	22.61	23.8
5	QPSK	12	7	22.58	22.52	22.45	
5	QPSK	12	13	22.45	22.34	22.36	
5	QPSK	25	0	22.35	22.18	22.16	
5	16QAM	1	0	22.74	22.54	22.53	23.8
5	16QAM	1	12	22.53	22.43	22.42	
5	16QAM	1	24	22.35	22.30	22.26	
5	16QAM	12	0	21.63	21.48	21.43	22.8
5	16QAM	12	7	21.52	21.29	21.25	
5	16QAM	12	13	21.38	21.17	21.13	
5	16QAM	25	0	21.24	21.04	21.04	
5	64QAM	1	0	20.72	20.62	20.57	22.3
5	64QAM	1	12	20.68	20.56	20.52	
5	64QAM	1	24	20.61	20.56	20.50	
5	64QAM	12	0	19.96	19.91	19.84	21.3
5	64QAM	12	7	19.94	19.97	19.76	
5	64QAM	12	13	19.84	19.94	19.74	
5	64QAM	25	0	18.76	18.90	18.76	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.74	23.79	23.71	24.8
3	QPSK	1	8	23.66	23.60	23.56	
3	QPSK	1	14	23.50	23.41	23.35	
3	QPSK	8	0	22.74	22.62	22.61	23.8
3	QPSK	8	4	22.53	22.52	22.37	
3	QPSK	8	7	22.40	22.33	22.29	
3	QPSK	15	0	22.29	22.15	22.10	
3	16QAM	1	0	22.67	22.53	22.53	23.8
3	16QAM	1	8	22.52	22.35	22.39	
3	16QAM	1	14	22.37	22.22	22.25	
3	16QAM	8	0	21.57	21.46	21.37	22.8
3	16QAM	8	4	21.42	21.22	21.20	
3	16QAM	8	7	21.31	21.11	21.06	
3	16QAM	15	0	21.18	20.98	20.93	
3	64QAM	1	0	20.69	20.51	20.50	22.3
3	64QAM	1	8	20.59	20.52	20.46	
3	64QAM	1	14	20.54	20.48	20.40	
3	64QAM	8	0	19.90	19.92	19.74	21.3
3	64QAM	8	4	19.91	19.88	19.74	
3	64QAM	8	7	19.79	19.81	19.69	
3	64QAM	15	0	18.77	18.85	18.71	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.72	23.80	23.73	24.8
1.4	QPSK	1	3	23.62	23.57	23.58	
1.4	QPSK	1	5	23.50	23.41	23.40	
1.4	QPSK	3	0	22.69	22.59	22.58	
1.4	QPSK	3	1	22.51	22.51	22.40	
1.4	QPSK	3	3	22.42	22.28	22.33	
1.4	QPSK	6	0	22.31	22.13	22.08	23.8
1.4	16QAM	1	0	22.63	22.49	22.52	23.8
1.4	16QAM	1	3	22.49	22.37	22.39	
1.4	16QAM	1	5	22.33	22.22	22.23	
1.4	16QAM	3	0	21.54	21.43	21.35	
1.4	16QAM	3	1	21.44	21.24	21.24	
1.4	16QAM	3	3	21.32	21.10	21.09	
1.4	16QAM	6	0	21.19	20.96	20.95	22.8
1.4	64QAM	1	0	20.63	20.52	20.49	22.3
1.4	64QAM	1	3	20.62	20.51	20.50	
1.4	64QAM	1	5	20.53	20.50	20.41	
1.4	64QAM	3	0	19.88	19.88	19.73	
1.4	64QAM	3	1	19.88	19.88	19.70	
1.4	64QAM	3	3	19.82	19.83	19.69	
1.4	64QAM	6	0	18.72	18.85	18.71	21.3

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	23.07	23.11	23.07	24.2
20	QPSK	1	49	22.93	22.97	22.94	
20	QPSK	1	99	22.74	22.77	22.83	
20	QPSK	50	0	21.95	22.07	22.05	23.2
20	QPSK	50	24	21.81	21.91	21.87	
20	QPSK	50	50	21.61	21.73	21.70	
20	QPSK	100	0	21.60	21.63	21.55	
20	16QAM	1	0	21.91	22.04	22.02	23.2
20	16QAM	1	49	21.79	21.88	21.85	
20	16QAM	1	99	21.59	21.77	21.68	
20	16QAM	50	0	20.76	21.00	20.82	22.2
20	16QAM	50	24	20.54	20.83	20.62	
20	16QAM	50	50	20.53	20.65	20.50	
20	16QAM	100	0	20.50	20.51	20.50	
20	64QAM	1	0	20.69	21.00	20.66	22.2
20	64QAM	1	49	20.51	20.99	20.60	
20	64QAM	1	99	20.50	20.98	20.60	
20	64QAM	50	0	19.80	20.30	19.93	21.2
20	64QAM	50	24	19.74	20.24	19.92	
20	64QAM	50	50	19.70	20.22	19.85	
20	64QAM	100	0	19.68	20.16	19.83	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.01	23.05	23.04	24.2
15	QPSK	1	37	22.87	22.94	22.87	
15	QPSK	1	74	22.65	22.71	22.76	
15	QPSK	36	0	21.88	21.99	22.00	23.2
15	QPSK	36	20	21.74	21.83	21.78	
15	QPSK	36	39	21.54	21.66	21.65	
15	QPSK	75	0	21.39	21.48	21.52	
15	16QAM	1	0	21.86	22.00	21.94	23.2
15	16QAM	1	37	21.75	21.83	21.80	
15	16QAM	1	74	21.51	21.69	21.60	
15	16QAM	36	0	20.72	20.93	20.77	22.2
15	16QAM	36	20	20.48	20.80	20.58	
15	16QAM	36	39	20.26	20.57	20.37	
15	16QAM	75	0	20.18	20.42	20.15	
15	64QAM	1	0	20.62	20.96	20.57	22.2
15	64QAM	1	37	20.45	20.96	20.53	
15	64QAM	1	74	20.42	20.93	20.56	
15	64QAM	36	0	19.72	20.26	19.89	21.2
15	64QAM	36	20	19.70	20.19	19.84	
15	64QAM	36	39	19.65	20.14	19.77	
15	64QAM	75	0	19.62	20.07	19.78	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.03	23.05	23.01	24.2
10	QPSK	1	25	22.84	22.91	22.88	
10	QPSK	1	49	22.66	22.73	22.76	
10	QPSK	25	0	21.87	21.99	21.97	23.2
10	QPSK	25	12	21.76	21.88	21.83	
10	QPSK	25	25	21.54	21.68	21.63	
10	QPSK	50	0	21.36	21.53	21.50	
10	16QAM	1	0	21.83	21.96	21.95	23.2
10	16QAM	1	25	21.75	21.83	21.81	
10	16QAM	1	49	21.51	21.70	21.60	
10	16QAM	25	0	20.70	20.93	20.77	22.2
10	16QAM	25	12	20.47	20.74	20.57	
10	16QAM	25	25	20.31	20.58	20.34	
10	16QAM	50	0	20.17	20.39	20.16	
10	64QAM	1	0	20.64	20.91	20.60	22.2
10	64QAM	1	25	20.46	20.94	20.54	
10	64QAM	1	49	20.42	20.93	20.56	
10	64QAM	25	0	19.72	20.23	19.87	21.2
10	64QAM	25	12	19.69	20.17	19.84	
10	64QAM	25	25	19.65	20.18	19.80	
10	64QAM	50	0	19.64	20.11	19.77	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.93	22.94	22.94	24.2
5	QPSK	1	12	22.79	22.83	22.83	
5	QPSK	1	24	22.61	22.66	22.69	
5	QPSK	12	0	21.85	21.87	21.92	23.2
5	QPSK	12	7	21.63	21.84	21.75	
5	QPSK	12	13	21.51	21.62	21.56	
5	QPSK	25	0	21.35	21.48	21.39	
5	16QAM	1	0	21.79	21.97	21.86	23.2
5	16QAM	1	12	21.68	21.77	21.75	
5	16QAM	1	24	21.45	21.63	21.54	
5	16QAM	12	0	20.61	20.85	20.72	22.2
5	16QAM	12	7	20.37	20.69	20.54	
5	16QAM	12	13	20.23	20.52	20.29	
5	16QAM	25	0	20.13	20.30	20.03	
5	64QAM	1	0	20.59	20.87	20.52	22.2
5	64QAM	1	12	20.37	20.88	20.49	
5	64QAM	1	24	20.34	20.85	20.46	
5	64QAM	12	0	19.68	20.22	19.79	21.2
5	64QAM	12	7	19.61	20.11	19.75	
5	64QAM	12	13	19.58	20.12	19.77	
5	64QAM	25	0	19.53	20.02	19.69	

Band 13(700MHz Band) (dBm)
Part 27F

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		23.64		24.5
10	QPSK	1	25		23.55		
10	QPSK	1	49		23.41		
10	QPSK	25	0		22.53		23.5
10	QPSK	25	12		22.48		
10	QPSK	25	25		22.40		
10	QPSK	50	0		22.33		
10	16QAM	1	0		22.48		23.5
10	16QAM	1	25		22.26		
10	16QAM	1	49		22.25		
10	16QAM	25	0		21.32		22.5
10	16QAM	25	12		21.19		
10	16QAM	25	25		21.02		
10	16QAM	50	0		20.91		
10	64QAM	1	0		21.08		22.5
10	64QAM	1	25		21.06		
10	64QAM	1	49		20.99		
10	64QAM	25	0		20.32		21.5
10	64QAM	25	12		20.26		
10	64QAM	25	25		20.24		
10	64QAM	50	0		17.17		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.51	23.54	23.54	24.5
5	QPSK	1	12	23.38	23.36	23.44	
5	QPSK	1	24	23.19	23.16	23.30	
5	QPSK	12	0	22.49	22.42	22.63	23.5
5	QPSK	12	7	22.31	22.27	22.45	
5	QPSK	12	13	22.08	22.06	22.26	
5	QPSK	25	0	21.96	21.87	22.08	
5	16QAM	1	0	22.33	22.38	22.45	23.5
5	16QAM	1	12	22.14	22.16	22.29	
5	16QAM	1	24	21.96	21.99	22.16	
5	16QAM	12	0	21.17	21.20	21.36	22.5
5	16QAM	12	7	20.99	21.11	21.21	
5	16QAM	12	13	20.85	20.88	21.08	
5	16QAM	25	0	20.65	20.78	20.90	
5	64QAM	1	0	20.81	20.96	21.06	22.5
5	64QAM	1	12	20.81	20.92	21.01	
5	64QAM	1	24	20.76	20.88	20.95	
5	64QAM	12	0	20.15	20.18	20.30	21.5
5	64QAM	12	7	20.08	20.15	20.19	
5	64QAM	12	13	20.01	20.11	20.19	
5	64QAM	25	0	17.00	17.02	17.14	

Band 26 for FCC (dBm)
(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.21	23.27	23.23	24
15	QPSK	1	37	23.08	23.07	23.11	
15	QPSK	1	74	22.90	22.88	22.93	
15	QPSK	36	0	22.18	22.20	22.17	23
15	QPSK	36	20	21.99	22.02	21.99	
15	QPSK	36	39	21.79	21.81	21.84	
15	QPSK	75	0	21.65	21.73	21.71	
15	16QAM	1	0	22.07	22.13	22.15	23
15	16QAM	1	37	21.94	21.91	22.04	
15	16QAM	1	74	21.78	21.73	21.88	
15	16QAM	36	0	20.98	20.98	21.11	22
15	16QAM	36	20	20.82	20.82	21.01	
15	16QAM	36	39	20.66	20.63	20.91	
15	16QAM	75	0	20.45	20.42	20.69	
15	64QAM	1	0	20.50	20.36	20.69	21
15	64QAM	1	37	20.45	20.30	20.67	
15	64QAM	1	74	20.40	20.24	20.63	
15	64QAM	36	0	19.20	19.35	19.40	20
15	64QAM	36	20	19.15	19.05	19.45	
15	64QAM	36	39	19.11	19.04	19.44	
15	64QAM	75	0	18.53	18.49	18.87	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.17	23.23	23.19	24
10	QPSK	1	25	23.01	22.99	23.07	
10	QPSK	1	49	22.81	22.83	22.90	
10	QPSK	25	0	22.11	22.09	22.13	23
10	QPSK	25	12	21.91	21.97	21.90	
10	QPSK	25	25	21.76	21.78	21.79	
10	QPSK	50	0	21.60	21.65	21.65	
10	16QAM	1	0	22.04	22.05	22.07	23
10	16QAM	1	25	21.86	21.83	21.96	
10	16QAM	1	49	21.74	21.67	21.85	
10	16QAM	25	0	20.91	20.94	21.02	22
10	16QAM	25	12	20.76	20.77	20.96	
10	16QAM	25	25	20.60	20.55	20.86	
10	16QAM	50	0	20.42	20.39	20.65	
10	64QAM	1	0	20.42	20.31	20.66	21
10	64QAM	1	25	20.39	20.21	20.62	
10	64QAM	1	49	20.34	20.16	20.54	
10	64QAM	25	0	19.15	19.07	19.37	20
10	64QAM	25	12	19.08	18.99	19.36	
10	64QAM	25	25	19.02	19.00	19.40	
10	64QAM	50	0	18.45	18.42	18.81	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.13	23.19	23.20	24
5	QPSK	1	12	23.04	22.99	23.04	
5	QPSK	1	24	22.84	22.82	22.85	
5	QPSK	12	0	22.13	22.07	22.13	23
5	QPSK	12	7	21.94	21.97	21.91	
5	QPSK	12	13	21.70	21.74	21.76	
5	QPSK	25	0	21.56	21.60	21.66	
5	16QAM	1	0	22.00	22.10	22.08	23
5	16QAM	1	12	21.87	21.84	22.00	
5	16QAM	1	24	21.72	21.68	21.79	
5	16QAM	12	0	20.93	20.94	21.07	22
5	16QAM	12	7	20.79	20.77	20.92	
5	16QAM	12	13	20.63	20.57	20.88	
5	16QAM	25	0	20.42	20.39	20.63	
5	64QAM	1	0	20.46	20.29	20.60	21
5	64QAM	1	12	20.39	20.22	20.60	
5	64QAM	1	24	20.33	20.16	20.58	
5	64QAM	12	0	19.13	19.02	19.37	20
5	64QAM	12	7	19.09	18.98	19.40	
5	64QAM	12	13	19.06	18.97	19.40	
5	64QAM	25	0	18.49	18.43	18.83	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.17	23.20	23.20	24
3	QPSK	1	8	23.02	23.02	23.03	
3	QPSK	1	14	22.87	22.84	22.84	
3	QPSK	8	0	22.13	22.10	22.13	23
3	QPSK	8	4	21.95	21.97	21.91	
3	QPSK	8	7	21.74	21.76	21.80	
3	QPSK	15	0	21.56	21.65	21.65	
3	16QAM	1	0	22.02	22.08	22.08	23
3	16QAM	1	8	21.85	21.88	22.00	
3	16QAM	1	14	21.70	21.70	21.81	
3	16QAM	8	0	20.90	20.94	21.02	22
3	16QAM	8	4	20.73	20.74	20.93	
3	16QAM	8	7	20.63	20.59	20.84	
3	16QAM	15	0	20.40	20.39	20.65	
3	64QAM	1	0	20.45	20.29	20.61	21
3	64QAM	1	8	20.37	20.23	20.63	
3	64QAM	1	14	20.36	20.16	20.55	
3	64QAM	8	0	19.12	19.03	19.39	20
3	64QAM	8	4	19.09	18.99	19.38	
3	64QAM	8	7	19.03	18.99	19.37	
3	64QAM	15	0	18.44	18.45	18.79	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.13	23.19	23.16	24
1.4	QPSK	1	3	23.00	23.00	23.07	
1.4	QPSK	1	5	22.84	22.85	22.85	
1.4	QPSK	3	0	22.11	22.06	22.08	
1.4	QPSK	3	1	21.95	21.96	21.92	

1.4	QPSK	3	3	21.75	21.73	21.77	
1.4	QPSK	6	0	21.57	21.61	21.66	23
1.4	16QAM	1	0	21.99	22.09	22.08	23
1.4	16QAM	1	3	21.86	21.86	21.99	
1.4	16QAM	1	5	21.74	21.69	21.83	
1.4	16QAM	3	0	20.93	20.90	21.03	
1.4	16QAM	3	1	20.77	20.74	20.94	
1.4	16QAM	3	3	20.62	20.59	20.85	
1.4	16QAM	6	0	20.37	20.38	20.61	22
1.4	64QAM	1	0	20.44	20.31	20.65	21
1.4	64QAM	1	3	20.39	20.26	20.63	
1.4	64QAM	1	5	20.37	20.18	20.56	
1.4	64QAM	3	0	19.14	19.02	19.41	
1.4	64QAM	3	1	19.09	19.00	19.38	
1.4	64QAM	3	3	19.08	18.96	19.37	
1.4	64QAM	6	0	18.45	18.40	18.82	20

Band 38(only on channel required) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.72	23.82	23.80	24.8
20	QPSK	1	49	23.51	23.67	23.62	
20	QPSK	1	99	23.39	23.51	23.44	
20	QPSK	50	0	22.65	22.77	22.66	23.8
20	QPSK	50	24	22.48	22.55	22.45	
20	QPSK	50	50	22.33	22.41	22.33	
20	QPSK	100	0	22.18	22.24	22.12	
20	16QAM	1	0	22.60	22.72	22.58	23.8
20	16QAM	1	49	22.47	22.50	22.45	
20	16QAM	1	99	22.27	22.39	22.25	
20	16QAM	50	0	21.43	21.59	21.39	22.8
20	16QAM	50	24	21.25	21.47	21.18	
20	16QAM	50	50	21.14	21.30	21.04	
20	16QAM	100	0	20.97	21.15	20.88	
20	64QAM	1	0	20.51	20.69	20.32	22.3
20	64QAM	1	49	20.42	20.64	20.24	
20	64QAM	1	99	20.41	20.60	20.21	
20	64QAM	50	0	19.77	19.94	19.53	21.3
20	64QAM	50	24	19.73	19.88	19.51	
20	64QAM	50	50	19.71	19.81	19.45	
20	64QAM	100	0	19.69	19.77	19.43	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.67	23.74	23.75	24.8
15	QPSK	1	37	23.47	23.62	23.58	
15	QPSK	1	74	23.36	23.44	23.40	
15	QPSK	36	0	22.54	22.74	22.58	23.8
15	QPSK	36	20	22.41	22.51	22.37	
15	QPSK	36	39	22.27	22.34	22.28	
15	QPSK	75	0	22.14	22.15	22.07	
15	16QAM	1	0	22.53	22.67	22.52	23.8
15	16QAM	1	37	22.44	22.44	22.42	
15	16QAM	1	74	22.23	22.36	22.16	
15	16QAM	36	0	21.39	21.52	21.31	22.8
15	16QAM	36	20	21.18	21.40	21.13	
15	16QAM	36	39	21.08	21.26	20.96	
15	16QAM	75	0	20.91	21.07	20.82	
15	64QAM	1	0	20.47	20.65	20.26	22.3
15	64QAM	1	37	20.34	20.56	20.18	
15	64QAM	1	74	20.32	20.54	20.14	
15	64QAM	36	0	19.73	19.89	19.45	21.3
15	64QAM	36	20	19.69	19.85	19.42	
15	64QAM	36	39	19.65	19.74	19.39	
15	64QAM	75	0	19.60	19.71	19.40	
Channel				37600	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.58	23.69	23.66	24.8
10	QPSK	1	25	23.38	23.52	23.48	
10	QPSK	1	49	23.28	23.38	23.32	
10	QPSK	25	0	22.46	22.68	22.54	23.8
10	QPSK	25	12	22.37	22.42	22.31	
10	QPSK	25	25	22.19	22.33	22.17	
10	QPSK	50	0	22.06	22.09	22.02	
10	16QAM	1	0	22.49	22.60	22.49	23.8
10	16QAM	1	25	22.35	22.38	22.35	
10	16QAM	1	49	22.10	22.30	22.13	
10	16QAM	25	0	21.34	21.48	21.31	22.8
10	16QAM	25	12	21.14	21.34	21.07	
10	16QAM	25	25	21.06	21.17	20.93	
10	16QAM	50	0	20.85	21.03	20.72	
10	64QAM	1	0	20.35	20.59	20.22	22.8
10	64QAM	1	25	20.29	20.50	20.16	
10	64QAM	1	49	20.31	20.49	20.10	
10	64QAM	25	0	19.62	19.78	19.44	21.8
10	64QAM	25	12	19.57	19.77	19.41	
10	64QAM	25	25	19.59	19.72	19.35	
10	64QAM	50	0	19.58	19.70	19.30	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.59	23.71	23.68	24.8
5	QPSK	1	12	23.37	23.51	23.52	
5	QPSK	1	24	23.31	23.35	23.31	
5	QPSK	12	0	22.45	22.65	22.55	23.8
5	QPSK	12	7	22.32	22.47	22.32	
5	QPSK	12	13	22.18	22.32	22.22	
5	QPSK	25	0	22.05	22.10	22.01	
5	16QAM	1	0	22.48	22.59	22.45	23.8
5	16QAM	1	12	22.35	22.39	22.31	
5	16QAM	1	24	22.11	22.26	22.14	
5	16QAM	12	0	21.36	21.49	21.31	22.8
5	16QAM	12	7	21.15	21.33	21.09	
5	16QAM	12	13	21.03	21.19	20.94	
5	16QAM	25	0	20.85	21.07	20.77	
5	64QAM	1	0	20.38	20.59	20.24	22.3
5	64QAM	1	12	20.29	20.50	20.16	
5	64QAM	1	24	20.33	20.47	20.06	
5	64QAM	12	0	19.63	19.81	19.43	21.3
5	64QAM	12	7	19.57	19.80	19.38	
5	64QAM	12	13	19.62	19.70	19.33	
5	64QAM	25	0	19.53	19.67	19.28	

Band 41 (2535~2655MHz) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				40140	40390	40640	40890	41140	
Frequency (MHz)				2545	2570	2595	2620	2645	
20	QPSK	1	0	23.90	23.85	23.92	23.80	23.79	24.8
20	QPSK	1	49	23.73	23.71	23.81	23.63	23.59	
20	QPSK	1	99	23.51	23.55	23.67	23.47	23.48	
20	QPSK	50	0	22.74	22.79	22.86	22.77	22.77	23.8
20	QPSK	50	24	22.64	22.59	22.71	22.59	22.58	
20	QPSK	50	50	22.52	22.44	22.59	22.47	22.39	
20	QPSK	100	0	22.34	22.25	22.46	22.31	22.22	
20	16QAM	1	0	22.81	22.66	22.92	22.71	22.62	23.8
20	16QAM	1	49	22.65	22.56	22.74	22.57	22.51	
20	16QAM	1	99	22.50	22.38	22.55	22.36	22.30	
20	16QAM	50	0	21.73	21.57	21.74	21.52	21.47	22.8
20	16QAM	50	24	21.52	21.43	21.60	21.39	21.31	
20	16QAM	50	50	21.40	21.30	21.48	21.18	21.11	
20	16QAM	100	0	21.23	21.12	21.29	20.99	21.00	
20	64QAM	1	0	20.41	20.37	20.45	20.22	20.18	22.3
20	64QAM	1	49	20.38	20.30	20.44	20.11	20.17	
20	64QAM	1	99	20.34	20.22	20.37	20.04	20.15	
20	64QAM	50	0	19.64	19.57	19.73	19.35	19.51	21.3
20	64QAM	50	24	19.60	19.53	19.69	19.30	19.50	
20	64QAM	50	50	19.56	19.48	19.62	19.27	19.48	
20	64QAM	100	0	19.49	19.42	19.60	19.23	19.45	
Channel				40115	40378	40640	40903	41165	Tune-up limit (dBm)
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5	
15	QPSK	1	0	23.87	23.79	23.89	23.79	23.73	24.8
15	QPSK	1	37	23.67	23.68	23.76	23.62	23.61	
15	QPSK	1	74	23.43	23.48	23.64	23.40	23.39	
15	QPSK	36	0	22.66	22.73	22.78	22.60	22.68	23.8
15	QPSK	36	20	22.57	22.53	22.62	22.52	22.45	
15	QPSK	36	39	22.45	22.41	22.54	22.41	22.33	
15	QPSK	75	0	22.31	22.19	22.40	22.24	22.15	
15	16QAM	1	0	22.74	22.59	22.86	22.66	22.50	23.8
15	16QAM	1	37	22.61	22.52	22.69	22.57	22.49	
15	16QAM	1	74	22.45	22.29	22.47	22.38	22.20	
15	16QAM	36	0	21.68	21.52	21.69	21.62	21.47	22.8
15	16QAM	36	20	21.47	21.37	21.55	21.43	21.29	
15	16QAM	36	39	21.31	21.23	21.39	21.23	21.19	
15	16QAM	75	0	21.19	21.08	21.26	21.10	21.00	
15	64QAM	1	0	20.32	20.33	20.41	20.29	20.26	22.3
15	64QAM	1	37	20.32	20.27	20.41	20.29	20.19	
15	64QAM	1	74	20.25	20.16	20.33	20.16	20.09	
15	64QAM	36	0	19.61	19.49	19.65	19.57	19.41	21.3
15	64QAM	36	20	19.53	19.47	19.63	19.49	19.43	
15	64QAM	36	39	19.50	19.41	19.57	19.41	19.36	
15	64QAM	75	0	19.42	19.33	19.51	19.33	19.27	
Channel				40090	40365	40640	40915	41190	Tune-up limit (dBm)
Frequency (MHz)				2540	2567.5	2595	2622.5	2650	
10	QPSK	1	0	23.82	23.72	23.79	23.74	23.80	24.8
10	QPSK	1	25	23.59	23.61	23.64	23.60	23.69	
10	QPSK	1	49	23.40	23.40	23.38	23.42	23.55	
10	QPSK	25	0	22.61	22.69	22.60	22.65	22.70	23.8
10	QPSK	25	12	22.51	22.44	22.52	22.50	22.57	
10	QPSK	25	25	22.40	22.32	22.42	22.33	22.50	
10	QPSK	50	0	22.26	22.10	22.25	22.16	22.35	
10	16QAM	1	0	22.68	22.56	22.65	22.51	22.78	23.8
10	16QAM	1	25	22.54	22.46	22.55	22.48	22.60	
10	16QAM	1	49	22.42	22.24	22.41	22.23	22.40	
10	16QAM	25	0	21.64	21.44	21.64	21.44	21.66	22.8
10	16QAM	25	12	21.40	21.29	21.43	21.28	21.51	
10	16QAM	25	25	21.23	21.16	21.27	21.18	21.31	
10	16QAM	50	0	21.13	21.02	21.15	21.03	21.22	
10	64QAM	1	0	20.27	20.25	20.25	20.27	20.35	22.3
10	64QAM	1	25	20.23	20.20	20.28	20.19	20.35	
10	64QAM	1	49	20.20	20.11	20.21	20.08	20.27	
10	64QAM	25	0	19.56	19.44	19.55	19.46	19.57	21.3
10	64QAM	25	12	19.49	19.43	19.48	19.41	19.54	
10	64QAM	25	25	19.46	19.32	19.44	19.33	19.51	
10	64QAM	50	0	19.36	19.28	19.34	19.26	19.42	
Channel				40065	40353	40640	40928	41215	Tune-up limit (dBm)
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5	
5	QPSK	1	0	23.80	23.74	23.81	23.74	23.84	24.8
5	QPSK	1	12	23.60	23.63	23.62	23.61	23.68	
5	QPSK	1	24	23.38	23.44	23.35	23.40	23.58	
5	QPSK	12	0	22.58	22.67	22.58	22.64	22.70	23.8
5	QPSK	12	7	22.54	22.45	22.49	22.45	22.54	
5	QPSK	12	13	22.37	22.39	22.39	22.37	22.47	
5	QPSK	25	0	22.28	22.10	22.28	22.12	22.33	
5	16QAM	1	0	22.68	22.54	22.69	22.52	22.79	23.8
5	16QAM	1	12	22.52	22.48	22.53	22.46	22.65	
5	16QAM	1	24	22.41	22.23	22.38	22.24	22.41	
5	16QAM	12	0	21.61	21.45	21.61	21.49	21.65	22.8
5	16QAM	12	7	21.40	21.30	21.39	21.28	21.48	
5	16QAM	12	13	21.26	21.14	21.23	21.15	21.36	
5	16QAM	25	0	21.10	21.03	21.11	21.04	21.17	
5	64QAM	1	0	20.27	20.30	20.29	20.27	20.36	22.3
5	64QAM	1	12	20.24	20.22	20.26	20.18	20.35	
5	64QAM	1	24	20.21	20.13	20.17	20.08	20.25	
5	64QAM	12	0	19.53	19.45	19.55	19.45	19.56	21.3
5	64QAM	12	7	19.45	19.39	19.48	19.42	19.55	
5	64QAM	12	13	19.42	19.37	19.46	19.33	19.51	
5	64QAM	25	0	19.34	19.25	19.34	19.25	19.43	

Band 66 (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.16	23.17	23.11	24
20	QPSK	1	49	23.03	23.00	22.96	
20	QPSK	1	99	22.89	22.83	22.79	
20	QPSK	50	0	22.12	22.14	22.06	23
20	QPSK	50	24	21.98	21.89	21.91	
20	QPSK	50	50	21.79	21.74	21.80	
20	QPSK	100	0	21.61	21.66	21.63	
20	16QAM	1	0	22.02	22.05	22.07	23
20	16QAM	1	49	21.89	21.90	21.90	
20	16QAM	1	99	21.77	21.69	21.69	
20	16QAM	50	0	20.91	20.88	20.94	22
20	16QAM	50	24	20.78	20.73	20.77	
20	16QAM	50	50	20.64	20.63	20.66	
20	16QAM	100	0	20.51	20.46	20.55	
20	64QAM	1	0	20.01	19.99	20.01	21.5
20	64QAM	1	49	19.91	19.94	19.97	
20	64QAM	1	99	19.90	19.94	19.94	
20	64QAM	50	0	19.21	19.26	19.29	20.5
20	64QAM	50	24	19.14	19.25	19.26	
20	64QAM	50	50	19.09	19.24	19.18	
20	64QAM	100	0	19.08	19.24	19.12	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.13	23.11	23.13	24
15	QPSK	1	37	22.98	22.92	22.92	
15	QPSK	1	74	22.84	22.75	22.75	
15	QPSK	36	0	22.08	21.96	21.97	23
15	QPSK	36	20	21.91	21.85	21.86	
15	QPSK	36	39	21.74	21.67	21.75	
15	QPSK	75	0	21.54	21.57	21.56	
15	16QAM	1	0	21.98	22.01	22.01	23
15	16QAM	1	37	21.84	21.86	21.85	
15	16QAM	1	74	21.73	21.60	21.60	
15	16QAM	36	0	20.83	20.85	20.89	22
15	16QAM	36	20	20.73	20.68	20.72	
15	16QAM	36	39	20.60	20.58	20.60	
15	16QAM	75	0	20.44	20.41	20.50	
15	64QAM	1	0	19.95	19.94	19.93	21.5
15	64QAM	1	37	19.85	19.90	19.90	
15	64QAM	1	74	19.84	19.86	19.89	
15	64QAM	36	0	19.16	19.23	19.25	20.5
15	64QAM	36	20	19.11	19.16	19.22	
15	64QAM	36	39	19.05	19.20	19.13	
15	64QAM	75	0	19.00	19.16	19.06	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.06	23.10	23.06	24
10	QPSK	1	25	22.95	22.90	22.85	
10	QPSK	1	49	22.74	22.70	22.66	
10	QPSK	25	0	22.00	21.89	21.93	23
10	QPSK	25	12	21.83	21.83	21.81	
10	QPSK	25	25	21.68	21.62	21.71	
10	QPSK	50	0	21.46	21.49	21.54	
10	16QAM	1	0	21.89	21.90	21.96	23
10	16QAM	1	25	21.78	21.80	21.74	
10	16QAM	1	49	21.62	21.60	21.57	
10	16QAM	25	0	20.78	20.75	20.83	22
10	16QAM	25	12	20.69	20.65	20.65	
10	16QAM	25	25	20.54	20.46	20.54	
10	16QAM	50	0	20.37	20.32	20.38	
10	64QAM	1	0	19.89	19.88	19.88	21.5
10	64QAM	1	25	19.80	19.81	19.88	
10	64QAM	1	49	19.81	19.82	19.79	
10	64QAM	25	0	19.05	19.15	19.19	20.5
10	64QAM	25	12	19.05	19.11	19.14	
10	64QAM	25	25	19.01	19.13	19.03	
10	64QAM	50	0	19.00	19.14	18.99	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.08	23.09	23.08	24
5	QPSK	1	12	22.95	22.85	22.87	
5	QPSK	1	24	22.73	22.72	22.68	
5	QPSK	12	0	22.01	21.89	21.94	23
5	QPSK	12	7	21.84	21.79	21.80	
5	QPSK	12	13	21.65	21.60	21.70	
5	QPSK	25	0	21.48	21.52	21.51	
5	16QAM	1	0	21.87	21.88	21.92	23
5	16QAM	1	12	21.80	21.79	21.76	
5	16QAM	1	24	21.61	21.59	21.58	
5	16QAM	12	0	20.82	20.78	20.84	22
5	16QAM	12	7	20.69	20.60	20.63	
5	16QAM	12	13	20.55	20.50	20.53	
5	16QAM	25	0	20.41	20.30	20.44	
5	64QAM	1	0	19.85	19.89	19.93	21.5
5	64QAM	1	12	19.80	19.79	19.90	
5	64QAM	1	24	19.81	19.81	19.81	
5	64QAM	12	0	19.08	19.17	19.16	20.5
5	64QAM	12	7	19.05	19.08	19.15	
5	64QAM	12	13	18.99	19.16	19.03	
5	64QAM	25	0	18.99	19.12	18.96	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.07	23.06	23.09	24
3	QPSK	1	8	22.90	22.87	22.87	
3	QPSK	1	14	22.76	22.73	22.66	
3	QPSK	8	0	21.98	21.91	21.93	23
3	QPSK	8	4	21.84	21.82	21.83	

3	QPSK	8	7	21.65	21.63	21.69	[illegible]
3	QPSK	15	0	21.47	21.53	21.53	
3	16QAM	1	0	21.87	21.93	21.92	23
3	16QAM	1	8	21.80	21.75	21.77	
3	16QAM	1	14	21.62	21.59	21.56	
3	16QAM	8	0	20.78	20.78	20.84	22
3	16QAM	8	4	20.70	20.63	20.64	
3	16QAM	8	7	20.54	20.50	20.55	
3	16QAM	15	0	20.43	20.31	20.40	
3	64QAM	1	0	19.89	19.89	19.89	21.5
3	64QAM	1	8	19.81	19.82	19.88	
3	64QAM	1	14	19.83	19.79	19.80	
3	64QAM	8	0	19.07	19.15	19.18	20.5
3	64QAM	8	4	19.03	19.11	19.13	
3	64QAM	8	7	19.02	19.17	19.03	
3	64QAM	15	0	19.01	19.11	18.98	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.08	23.06	23.09	24
1.4	QPSK	1	3	22.94	22.85	22.85	
1.4	QPSK	1	5	22.73	22.73	22.69	
1.4	QPSK	3	0	21.98	21.90	21.95	
1.4	QPSK	3	1	21.84	21.82	21.78	
1.4	QPSK	3	3	21.70	21.61	21.67	
1.4	QPSK	6	0	21.45	21.52	21.54	23
1.4	16QAM	1	0	21.89	21.92	21.95	23
1.4	16QAM	1	3	21.76	21.76	21.75	
1.4	16QAM	1	5	21.61	21.59	21.59	
1.4	16QAM	3	0	20.81	20.73	20.84	
1.4	16QAM	3	1	20.68	20.61	20.60	
1.4	16QAM	3	3	20.55	20.48	20.55	
1.4	16QAM	6	0	20.42	20.29	20.40	22
1.4	64QAM	1	0	19.85	19.88	19.90	21.5
1.4	64QAM	1	3	19.78	19.81	19.86	
1.4	64QAM	1	5	19.83	19.80	19.80	
1.4	64QAM	3	0	19.05	19.16	19.20	
1.4	64QAM	3	1	19.01	19.11	19.13	
1.4	64QAM	3	3	19.00	19.15	19.05	
1.4	64QAM	6	0	18.99	19.12	18.99	20.5

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	17.41	19.00	default	97.99
		CH 6	2437	16.45	18.00	default	
		CH 11	2462	17.33	19.00	default	
	802.11g 6Mbps	CH 1	2412	16.34	18.00	default	88.68
		CH 6	2437	15.44	17.00	default	
		CH 11	2462	16.27	18.00	default	
	802.11n-HT20 MCS0	CH 1	2412	16.04	18.00	default	86.71
		CH 6	2437	15.14	17.00	default	
		CH 11	2462	15.79	17.00	default	
	802.11n-HT40 MCS0	CH 3	2422	15.01	17.00	default	77.57
		CH 6	2437	14.33	16.00	default	
		CH 9	2452	14.30	16.00	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	17.40	19.00	default	88.61
		CH 44	5220	17.40	19.00	default	
		CH 48	5240	17.48	19.00	default	
	802.11n-HT20 MCS0	CH 36	5180	17.54	19.00	default	86.76
		CH 44	5220	17.66	19.00	default	
		CH 48	5240	17.44	19.00	default	
	802.11n-HT40 MCS0	CH 38	5190	16.68	18.00	default	76.32
		CH 46	5230	16.52	18.00	default	
	802.11ac-VHT20 MCS0	CH 36	5180	17.30	18.00	default	86.76
		CH 44	5220	17.25	18.00	default	
		CH 48	5240	16.98	18.00	default	
	802.11ac-VHT40 MCS0	CH 38	5190	17.12	18.00	default	78.95
		CH 46	5230	16.74	18.00	default	
	802.11ac-VHT80 MCS0	CH 42	5210	15.75	17.00	default	65.22

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	17.34	19.00	default	89.74
		CH 60	5300	17.29	19.00	default	
		CH 64	5320	17.02	19.00	default	
	802.11n-HT20 MCS0	CH 52	5260	17.58	19.00	default	86.76
		CH 60	5300	17.44	19.00	default	
		CH 64	5320	17.09	19.00	default	
	802.11n-HT40 MCS0	CH 54	5270	16.08	18.00	default	78.95
		CH 62	5310	16.19	18.00	default	
	802.11ac-VHT20 MCS0	CH 52	5260	17.17	18.00	default	86.96
		CH 60	5300	17.05	18.00	default	
		CH 64	5320	16.68	18.00	default	
	802.11ac-VHT40 MCS0	CH 54	5270	16.42	18.00	default	76.92
		CH 62	5310	16.49	18.00	default	
	802.11ac-VHT80 MCS0	CH 58	5290	15.39	17.00	default	65.22

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	17.91	19.00	default	89.74
		CH 116	5580	17.80	19.00	default	
		CH 140	5700	17.48	19.00	default	
	802.11n-HT20 MCS0	CH 100	5500	17.74	19.00	default	86.76
		CH 116	5580	17.79	19.00	default	
		CH 140	5700	17.71	19.00	default	
	802.11n-HT40 MCS0	CH 102	5510	16.62	18.00	default	78.38
		CH 110	5550	16.86	18.00	default	
		CH 134	5670	16.75	18.00	default	
	802.11ac-VHT20 MCS0	CH 100	5500	17.41	18.00	default	86.76
		CH 116	5580	17.54	18.00	default	
		CH 140	5700	17.34	18.00	default	
	802.11ac-VHT40 MCS0	CH 102	5510	16.82	18.00	default	78.95
		CH 110	5550	17.70	19.00	default	
		CH 134	5670	16.92	18.00	default	
	802.11ac-VHT80 MCS0	CH 106	5530	15.83	17.00	default	65.22
		CH 122	5610	15.66	17.00	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	17.74	19.00	default	89.74
		CH 157	5785	17.57	19.00	default	
		CH 165	5825	17.68	19.00	default	
	802.11n-HT20 MCS0	CH 149	5745	17.70	19.00	default	86.76
		CH 157	5785	17.48	19.00	default	
		CH 165	5825	17.61	19.00	default	
	802.11n-HT40 MCS0	CH 151	5755	16.83	18.00	default	78.95
		CH 159	5795	16.88	18.00	default	
	802.11ac-VHT20 MCS0	CH 149	5745	17.58	19.00	default	86.96
		CH 157	5785	17.23	19.00	default	
		CH 165	5825	17.41	19.00	default	
	802.11ac-VHT40 MCS0	CH 151	5755	17.57	19.00	default	76.92
		CH 159	5795	17.72	19.00	default	
	802.11ac-VHT80 MCS0	CH 155	5775	15.59	17.00	default	65.22

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	8.57	10.00	6.38	8.00	6.18	8.00
	CH 39	2441	8.31	10.00	6.39	8.00	6.29	8.00
	CH 78	2480	8.49	10.00	6.05	8.00	5.99	8.00
Duty Cycle %			77.63		78.16		78.11	

Mode	Channel	Frequency (MHz)	Average power (dBm)	Average power (dBm)
			BLE 1M	BLE 2M
LE	CH 00	2402	-2.62	-2.78
	CH 19	2440	-2.57	-2.29
	CH 39	2480	-2.97	-2.70
Tune-up Limit			1	1
Duty Cycle %			31.88	32.77

Reduced Power Level 1

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	29.98	30.02	29.96	31.00	20.98	21.02	20.96	22.00
GPRS 1 Tx slot	29.94	29.98	29.95	31.00	20.94	20.98	20.95	22.00
GPRS 2 Tx slots	28.34	28.40	28.34	29.50	22.34	22.40	22.34	23.50
GPRS 3 Tx slots	26.32	26.40	26.35	27.00	22.06	22.14	22.09	22.74
GPRS 4 Tx slots	24.58	24.62	24.58	25.50	21.58	21.62	21.58	22.50
EDGE 1 Tx slot	23.62	23.71	23.66	24.50	14.62	14.71	14.66	15.50
EDGE 2 Tx slots	22.03	22.07	21.98	23.50	16.03	16.07	15.98	17.50
EDGE 3 Tx slots	20.33	20.41	20.37	21.50	16.07	16.15	16.11	17.24
EDGE 4 Tx slots	18.54	18.57	18.54	19.50	15.54	15.57	15.54	16.50
Mode		Max.	30.02			Max.	22.40	
Attenuator	Cable Loss :							
Date								

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	24.32	24.40	24.33	25.50	15.32	15.40	15.33	16.50
GPRS 1 Tx slot	24.29	24.36	24.29	25.50	15.29	15.36	15.29	16.50
GPRS 2 Tx slots	23.00	23.07	23.04	23.50	17.00	17.07	17.04	17.50
GPRS 3 Tx slots	21.24	21.31	21.20	22.50	16.98	17.05	16.94	18.24
GPRS 4 Tx slots	19.63	19.70	19.66	20.50	16.63	16.70	16.66	17.50
EDGE 1 Tx slot	20.54	20.62	20.56	21.50	11.54	11.62	11.56	12.50
EDGE 2 Tx slots	18.88	18.97	18.89	20.00	12.88	12.97	12.89	14.00
EDGE 3 Tx slots	16.57	16.62	16.57	18.00	12.31	12.36	12.31	13.74
EDGE 4 Tx slots	15.28	15.33	15.28	16.00	12.28	12.33	12.28	13.00
Mode		Max.	24.40			Max.	17.07	
Attenuator	Cable Loss :							
Date								

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	18.20	18.22	18.17	19.00	16.31	16.42	16.37	17.50	22.58	22.61	22.50	23.50
Attenuator			Cable Loss				Cable Loss				Cable Loss		
Mode			Max.	18.22			Max.	16.42			Max.	22.61	

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	16.55	16.65	16.53	17.5
20	QPSK	1	49	16.36	16.45	16.34	
20	QPSK	1	99	16.18	16.23	16.20	
20	QPSK	50	0	15.42	15.47	15.41	16.5
20	QPSK	50	24	15.24	15.32	15.31	
20	QPSK	50	50	15.12	15.14	15.16	
20	QPSK	100	0	14.98	15.03	14.97	
20	16QAM	1	0	15.44	15.52	15.36	16.5
20	16QAM	1	49	15.31	15.40	15.14	
20	16QAM	1	99	15.09	15.22	15.03	
20	16QAM	50	0	14.26	14.43	14.21	15.5
20	16QAM	50	24	14.10	14.32	14.08	
20	16QAM	50	50	13.95	14.18	13.88	
20	16QAM	100	0	13.75	14.07	13.68	
20	64QAM	1	0	14.20	14.50	14.22	15.5
20	64QAM	1	49	14.03	14.47	14.21	
20	64QAM	1	99	13.99	14.46	14.19	
20	64QAM	50	0	13.29	13.80	13.49	14.5
20	64QAM	50	24	13.25	13.79	13.41	
20	64QAM	50	50	13.19	13.76	13.35	
20	64QAM	100	0	13.17	13.73	13.34	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.48	16.56	16.48	17.5
15	QPSK	1	37	16.29	16.36	16.31	
15	QPSK	1	74	16.11	16.18	16.14	
15	QPSK	36	0	15.33	15.40	15.37	16.5
15	QPSK	36	20	15.20	15.27	15.23	
15	QPSK	36	39	15.04	15.07	15.09	
15	QPSK	75	0	14.94	14.94	14.89	
15	16QAM	1	0	15.36	15.45	15.31	16.5
15	16QAM	1	37	15.28	15.33	15.09	
15	16QAM	1	74	15.05	15.17	14.99	
15	16QAM	36	0	14.21	14.38	14.15	15.5
15	16QAM	36	20	14.04	14.28	14.04	
15	16QAM	36	39	13.90	14.10	13.84	
15	16QAM	75	0	13.71	14.01	13.63	
15	64QAM	1	0	14.12	14.42	14.18	15.5
15	64QAM	1	37	13.95	14.40	14.12	
15	64QAM	1	74	13.93	14.43	14.16	
15	64QAM	36	0	13.22	13.75	13.45	14.5
15	64QAM	36	20	13.18	13.75	13.38	
15	64QAM	36	39	13.11	13.70	13.30	
15	64QAM	75	0	13.09	13.65	13.30	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.45	16.48	16.41	17.5
10	QPSK	1	25	16.25	16.34	16.21	
10	QPSK	1	49	16.08	16.11	16.10	
10	QPSK	25	0	15.29	15.33	15.27	16.5
10	QPSK	25	12	15.12	15.22	15.17	
10	QPSK	25	25	15.01	15.02	15.08	
10	QPSK	50	0	14.86	14.91	14.85	
10	16QAM	1	0	15.33	15.38	15.22	16.5
10	16QAM	1	25	15.20	15.25	15.03	
10	16QAM	1	49	15.00	15.10	14.93	
10	16QAM	25	0	14.16	14.31	14.11	15.5
10	16QAM	25	12	13.99	14.16	13.94	
10	16QAM	25	25	13.85	14.02	13.74	
10	16QAM	50	0	13.64	13.94	13.58	
10	64QAM	1	0	14.06	14.37	14.09	15.5
10	64QAM	1	25	13.96	14.33	14.13	
10	64QAM	1	49	13.90	14.32	14.10	
10	64QAM	25	0	13.14	13.68	13.34	14.5
10	64QAM	25	12	13.11	13.65	13.28	
10	64QAM	25	25	13.09	13.63	13.22	
10	64QAM	50	0	13.07	13.62	13.18	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.46	16.49	16.39	17.5
5	QPSK	1	12	16.23	16.35	16.21	
5	QPSK	1	24	16.03	16.13	16.09	
5	QPSK	12	0	15.30	15.36	15.26	16.5
5	QPSK	12	7	15.08	15.21	15.21	
5	QPSK	12	13	14.99	15.02	15.03	
5	QPSK	25	0	14.89	14.89	14.84	
5	16QAM	1	0	15.31	15.41	15.22	16.5
5	16QAM	1	12	15.19	15.26	15.00	
5	16QAM	1	24	14.96	15.11	14.92	
5	16QAM	12	0	14.14	14.31	14.10	15.5
5	16QAM	12	7	13.97	14.19	13.94	
5	16QAM	12	13	13.85	14.02	13.74	
5	16QAM	25	0	13.60	13.92	13.57	
5	64QAM	1	0	14.08	14.38	14.09	15.5
5	64QAM	1	12	13.91	14.36	14.14	
5	64QAM	1	24	13.91	14.30	14.12	
5	64QAM	12	0	13.16	13.66	13.36	14.5
5	64QAM	12	7	13.10	13.67	13.28	
5	64QAM	12	13	13.05	13.63	13.26	
5	64QAM	25	0	13.05	13.62	13.19	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.49	16.52	16.46	17.5
3	QPSK	1	8	16.31	16.37	16.26	
3	QPSK	1	14	16.11	16.16	16.11	
3	QPSK	8	0	15.35	15.38	15.34	16.5
3	QPSK	8	4	15.18	15.29	15.24	

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	17.18	17.23	17.17	18
20	QPSK	1	49	17.05	17.01	17.07	
20	QPSK	1	99	16.84	16.86	16.87	
20	QPSK	50	0	16.11	16.15	16.13	17
20	QPSK	50	24	15.96	15.97	15.96	
20	QPSK	50	50	15.82	15.84	15.83	
20	QPSK	100	0	15.66	15.70	15.68	
20	16QAM	1	0	16.10	16.05	16.07	17
20	16QAM	1	49	15.90	15.88	15.95	
20	16QAM	1	99	15.71	15.76	15.84	
20	16QAM	50	0	14.90	14.97	15.07	16
20	16QAM	50	24	14.78	14.82	14.94	
20	16QAM	50	50	14.65	14.69	14.78	
20	16QAM	100	0	14.50	14.51	14.59	
20	64QAM	1	0	14.98	15.00	15.04	16
20	64QAM	1	49	14.97	14.99	15.03	
20	64QAM	1	99	14.95	14.92	15.02	
20	64QAM	50	0	14.26	14.22	14.34	15
20	64QAM	50	24	14.23	14.18	14.31	
20	64QAM	50	50	14.17	14.14	14.26	
20	64QAM	100	0	14.16	14.09	14.23	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.13	17.19	17.13	18
15	QPSK	1	37	17.00	16.97	17.04	
15	QPSK	1	74	16.75	16.79	16.80	
15	QPSK	36	0	16.07	16.02	16.08	17
15	QPSK	36	20	15.92	15.89	15.93	
15	QPSK	36	39	15.77	15.78	15.77	
15	QPSK	75	0	15.62	15.62	15.62	
15	16QAM	1	0	16.07	15.97	16.01	17
15	16QAM	1	37	15.85	15.79	15.89	
15	16QAM	1	74	15.66	15.68	15.78	
15	16QAM	36	0	14.81	14.94	15.01	16
15	16QAM	36	20	14.71	14.78	14.87	
15	16QAM	36	39	14.61	14.60	14.70	
15	16QAM	75	0	14.46	14.44	14.53	
15	64QAM	1	0	14.95	14.96	14.99	16
15	64QAM	1	37	14.90	14.92	14.98	
15	64QAM	1	74	14.88	14.89	14.95	
15	64QAM	36	0	14.19	14.16	14.27	15
15	64QAM	36	20	14.18	14.15	14.27	
15	64QAM	36	39	14.13	14.06	14.19	
15	64QAM	75	0	14.10	14.01	14.17	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.03	17.08	17.07	18
10	QPSK	1	25	16.93	16.95	16.95	
10	QPSK	1	49	16.77	16.71	16.74	
10	QPSK	25	0	16.02	15.94	16.01	17
10	QPSK	25	12	15.87	15.87	15.80	
10	QPSK	25	25	15.71	15.68	15.74	
10	QPSK	50	0	15.50	15.52	15.59	
10	16QAM	1	0	15.98	15.93	15.97	17
10	16QAM	1	25	15.81	15.76	15.83	
10	16QAM	1	49	15.58	15.65	15.70	
10	16QAM	25	0	14.81	14.88	14.99	16
10	16QAM	25	12	14.67	14.70	14.86	
10	16QAM	25	25	14.50	14.54	14.66	
10	16QAM	50	0	14.33	14.41	14.50	
10	64QAM	1	0	14.90	14.87	14.93	16
10	64QAM	1	25	14.81	14.84	14.93	
10	64QAM	1	49	14.83	14.80	14.86	
10	64QAM	25	0	14.15	14.12	14.22	15
10	64QAM	25	12	14.12	14.07	14.24	
10	64QAM	25	25	14.04	14.02	14.20	
10	64QAM	50	0	14.01	13.94	14.13	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.06	17.11	17.07	18
5	QPSK	1	12	16.90	16.92	16.99	
5	QPSK	1	24	16.74	16.75	16.72	
5	QPSK	12	0	16.00	15.95	16.01	17
5	QPSK	12	7	15.86	15.89	15.81	
5	QPSK	12	13	15.70	15.73	15.72	
5	QPSK	25	0	15.50	15.55	15.58	
5	16QAM	1	0	16.00	15.90	15.92	17
5	16QAM	1	12	15.78	15.76	15.84	
5	16QAM	1	24	15.54	15.62	15.75	
5	16QAM	12	0	14.80	14.85	14.98	16
5	16QAM	12	7	14.63	14.70	14.86	
5	16QAM	12	13	14.50	14.54	14.64	
5	16QAM	25	0	14.37	14.41	14.50	
5	64QAM	1	0	14.87	14.88	14.93	16
5	64QAM	1	12	14.86	14.83	14.95	
5	64QAM	1	24	14.87	14.75	14.88	
5	64QAM	12	0	14.17	14.14	14.24	15
5	64QAM	12	7	14.10	14.07	14.19	
5	64QAM	12	13	14.06	13.98	14.17	
5	64QAM	25	0	13.99	13.92	14.12	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	17.04	17.09	17.06	18
3	QPSK	1	8	16.95	16.90	16.96	
3	QPSK	1	14	16.78	16.72	16.71	
3	QPSK	8	0	16.03	15.93	16.02	17
3	QPSK	8	4	15.88	15.89	15.85	

3	QPSK	8	7	15.05	15.06	15.13	[illegible]
3	QPSK	15	0	14.92	14.97	14.93	
3	16QAM	1	0	15.40	15.49	15.30	16.5
3	16QAM	1	8	15.23	15.33	15.08	
3	16QAM	1	14	15.00	15.14	14.99	
3	16QAM	8	0	14.18	14.36	14.15	15.5
3	16QAM	8	4	14.02	14.24	14.02	
3	16QAM	8	7	13.90	14.11	13.82	
3	16QAM	15	0	13.71	14.01	13.61	
3	64QAM	1	0	14.11	14.42	14.15	15.5
3	64QAM	1	8	14.00	14.41	14.13	
3	64QAM	1	14	13.92	14.41	14.11	
3	64QAM	8	0	13.21	13.73	13.45	14.5
3	64QAM	8	4	13.18	13.73	13.35	
3	64QAM	8	7	13.10	13.69	13.29	
3	64QAM	15	0	13.13	13.68	13.30	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.43	16.47	16.41	17.5
1.4	QPSK	1	3	16.25	16.32	16.25	
1.4	QPSK	1	5	16.08	16.11	16.09	
1.4	QPSK	3	0	15.30	15.30	15.27	
1.4	QPSK	3	1	15.08	15.23	15.21	
1.4	QPSK	3	3	15.00	15.06	15.05	
1.4	QPSK	6	0	14.87	14.89	14.86	16.5
1.4	16QAM	1	0	15.30	15.39	15.27	16.5
1.4	16QAM	1	3	15.18	15.29	15.03	
1.4	16QAM	1	5	15.00	15.11	14.94	
1.4	16QAM	3	0	14.17	14.29	14.10	
1.4	16QAM	3	1	13.97	14.19	13.93	
1.4	16QAM	3	3	13.87	14.03	13.72	
1.4	16QAM	6	0	13.65	13.94	13.61	15.5
1.4	64QAM	1	0	14.09	14.36	14.13	15.5
1.4	64QAM	1	3	13.92	14.38	14.12	
1.4	64QAM	1	5	13.87	14.31	14.08	
1.4	64QAM	3	0	13.18	13.67	13.37	
1.4	64QAM	3	1	13.09	13.63	13.26	
1.4	64QAM	3	3	13.05	13.62	13.25	
1.4	64QAM	6	0	13.07	13.62	13.18	14.5

3	QPSK	8	7	15.68	15.71	15.70	[illegible]
3	QPSK	15	0	15.51	15.51	15.58	
3	16QAM	1	0	15.99	15.91	15.92	17
3	16QAM	1	8	15.80	15.74	15.84	
3	16QAM	1	14	15.58	15.64	15.72	
3	16QAM	8	0	14.78	14.90	14.96	16
3	16QAM	8	4	14.63	14.72	14.87	
3	16QAM	8	7	14.55	14.58	14.63	
3	16QAM	15	0	14.35	14.38	14.45	
3	64QAM	1	0	14.89	14.89	14.90	16
3	64QAM	1	8	14.82	14.88	14.92	
3	64QAM	1	14	14.86	14.79	14.86	
3	64QAM	8	0	14.15	14.09	14.25	15
3	64QAM	8	4	14.08	14.09	14.24	
3	64QAM	8	7	14.04	13.97	14.19	
3	64QAM	15	0	14.01	13.95	14.14	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.05	17.12	17.04	18
1.4	QPSK	1	3	16.95	16.91	16.99	
1.4	QPSK	1	5	16.74	16.76	16.75	
1.4	QPSK	3	0	15.98	15.92	16.01	
1.4	QPSK	3	1	15.85	15.85	15.85	
1.4	QPSK	3	3	15.70	15.68	15.74	
1.4	QPSK	6	0	15.51	15.55	15.59	17
1.4	16QAM	1	0	16.02	15.89	15.93	17
1.4	16QAM	1	3	15.81	15.76	15.81	
1.4	16QAM	1	5	15.54	15.65	15.75	
1.4	16QAM	3	0	14.77	14.88	14.94	
1.4	16QAM	3	1	14.66	14.69	14.87	
1.4	16QAM	3	3	14.51	14.54	14.65	
1.4	16QAM	6	0	14.35	14.39	14.45	16
1.4	64QAM	1	0	14.89	14.89	14.91	16
1.4	64QAM	1	3	14.84	14.87	14.94	
1.4	64QAM	1	5	14.83	14.78	14.90	
1.4	64QAM	3	0	14.17	14.12	14.24	
1.4	64QAM	3	1	14.10	14.11	14.22	
1.4	64QAM	3	3	14.05	14.03	14.17	
1.4	64QAM	6	0	13.99	13.97	14.11	15

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.36	23.38	23.37	24.3
10	QPSK	1	25	23.25	23.22	23.17	
10	QPSK	1	49	23.11	23.02	23.00	
10	QPSK	25	0	22.32	22.33	22.27	23.3
10	QPSK	25	12	22.15	22.10	22.02	
10	QPSK	25	25	22.02	21.91	21.90	
10	QPSK	50	0	21.91	21.94	21.85	
10	16QAM	1	0	22.30	22.12	22.11	23.3
10	16QAM	1	25	22.11	21.98	21.99	
10	16QAM	1	49	21.93	21.86	21.85	
10	16QAM	25	0	21.17	21.06	21.01	22.3
10	16QAM	25	12	21.06	20.87	20.81	
10	16QAM	25	25	20.94	20.73	20.70	
10	16QAM	50	0	20.80	20.61	20.59	
10	64QAM	1	0	20.31	20.15	20.13	21.8
10	64QAM	1	25	20.22	20.14	20.09	
10	64QAM	1	49	20.18	20.13	20.06	
10	64QAM	25	0	19.52	19.50	19.39	20.8
10	64QAM	25	12	19.49	19.50	19.32	
10	64QAM	25	25	19.41	19.48	19.30	
10	64QAM	50	0	18.34	18.45	18.29	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.31	23.29	23.28	24.3
5	QPSK	1	12	23.21	23.19	23.13	
5	QPSK	1	24	23.06	22.98	22.94	
5	QPSK	12	0	22.24	22.20	22.11	23.3
5	QPSK	12	7	22.08	22.02	21.95	
5	QPSK	12	13	21.95	21.84	21.86	
5	QPSK	25	0	21.85	21.68	21.66	
5	16QAM	1	0	22.24	22.04	22.03	23.3
5	16QAM	1	12	22.03	21.93	21.92	
5	16QAM	1	24	21.85	21.80	21.76	
5	16QAM	12	0	21.13	20.98	20.93	22.3
5	16QAM	12	7	21.02	20.79	20.75	
5	16QAM	12	13	20.88	20.67	20.63	
5	16QAM	25	0	20.74	20.54	20.54	
5	64QAM	1	0	20.22	20.12	20.07	21.8
5	64QAM	1	12	20.18	20.06	20.02	
5	64QAM	1	24	20.11	20.06	20.00	
5	64QAM	12	0	19.46	19.41	19.34	20.8
5	64QAM	12	7	19.44	19.47	19.26	
5	64QAM	12	13	19.34	19.44	19.24	
5	64QAM	25	0	18.26	18.40	18.26	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.24	23.29	23.21	24.3
3	QPSK	1	8	23.16	23.10	23.06	
3	QPSK	1	14	23.00	22.91	22.85	
3	QPSK	8	0	22.24	22.12	22.11	23.3
3	QPSK	8	4	22.03	22.02	21.87	
3	QPSK	8	7	21.90	21.83	21.79	
3	QPSK	15	0	21.79	21.65	21.60	
3	16QAM	1	0	22.17	22.03	22.03	23.3
3	16QAM	1	8	22.02	21.85	21.89	
3	16QAM	1	14	21.87	21.72	21.75	
3	16QAM	8	0	21.07	20.96	20.87	22.3
3	16QAM	8	4	20.92	20.72	20.70	
3	16QAM	8	7	20.81	20.61	20.56	
3	16QAM	15	0	20.68	20.48	20.43	
3	64QAM	1	0	20.19	20.01	20.00	21.8
3	64QAM	1	8	20.09	20.02	19.96	
3	64QAM	1	14	20.04	19.98	19.90	
3	64QAM	8	0	19.40	19.42	19.24	20.8
3	64QAM	8	4	19.41	19.38	19.24	
3	64QAM	8	7	19.29	19.31	19.19	
3	64QAM	15	0	18.27	18.35	18.21	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.22	23.30	23.23	24.3
1.4	QPSK	1	3	23.12	23.07	23.08	
1.4	QPSK	1	5	23.00	22.91	22.90	
1.4	QPSK	3	0	22.19	22.09	22.08	
1.4	QPSK	3	1	22.01	22.01	21.90	
1.4	QPSK	3	3	21.92	21.78	21.83	
1.4	QPSK	6	0	21.81	21.63	21.58	23.3
1.4	16QAM	1	0	22.13	21.99	22.02	23.3
1.4	16QAM	1	3	21.99	21.87	21.89	
1.4	16QAM	1	5	21.83	21.72	21.73	
1.4	16QAM	3	0	21.04	20.93	20.85	
1.4	16QAM	3	1	20.94	20.74	20.74	
1.4	16QAM	3	3	20.82	20.60	20.59	
1.4	16QAM	6	0	20.69	20.46	20.45	22.3
1.4	64QAM	1	0	20.13	20.02	19.99	21.8
1.4	64QAM	1	3	20.12	20.01	20.00	
1.4	64QAM	1	5	20.03	20.00	19.91	
1.4	64QAM	3	0	19.38	19.38	19.23	
1.4	64QAM	3	1	19.38	19.38	19.20	
1.4	64QAM	3	3	19.32	19.33	19.19	
1.4	64QAM	6	0	18.22	18.35	18.21	20.8

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	14.17	14.31	14.27	15.2
20	QPSK	1	49	13.93	13.97	13.94	
20	QPSK	1	99	13.74	13.77	13.83	
20	QPSK	50	0	12.95	13.07	13.05	14.2
20	QPSK	50	24	12.81	12.91	12.87	
20	QPSK	50	50	12.61	12.73	12.70	
20	QPSK	100	0	12.60	12.63	12.55	
20	16QAM	1	0	12.91	13.04	13.02	14.2
20	16QAM	1	49	12.79	12.88	12.85	
20	16QAM	1	99	12.59	12.77	12.68	
20	16QAM	50	0	11.76	12.00	11.82	13.2
20	16QAM	50	24	11.54	11.83	11.62	
20	16QAM	50	50	11.53	11.65	11.50	
20	16QAM	100	0	11.50	11.51	11.50	
20	64QAM	1	0	11.69	12.00	11.66	13.2
20	64QAM	1	49	11.51	11.99	11.60	
20	64QAM	1	99	11.50	11.98	11.60	
20	64QAM	50	0	10.80	11.30	10.93	12.2
20	64QAM	50	24	10.74	11.24	10.92	
20	64QAM	50	50	10.70	11.22	10.85	
20	64QAM	100	0	10.68	11.16	10.83	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	14.01	14.05	14.04	15.2
15	QPSK	1	37	13.87	13.94	13.87	
15	QPSK	1	74	13.65	13.71	13.76	
15	QPSK	36	0	12.88	12.99	13.00	14.2
15	QPSK	36	20	12.74	12.83	12.78	
15	QPSK	36	39	12.54	12.66	12.65	
15	QPSK	75	0	12.39	12.48	12.52	
15	16QAM	1	0	12.86	13.00	12.94	14.2
15	16QAM	1	37	12.75	12.83	12.80	
15	16QAM	1	74	12.51	12.69	12.60	
15	16QAM	36	0	11.72	11.93	11.77	13.2
15	16QAM	36	20	11.48	11.80	11.58	
15	16QAM	36	39	11.26	11.57	11.37	
15	16QAM	75	0	11.18	11.42	11.15	
15	64QAM	1	0	11.62	11.96	11.57	13.2
15	64QAM	1	37	11.45	11.96	11.53	
15	64QAM	1	74	11.42	11.93	11.56	
15	64QAM	36	0	10.72	11.26	10.89	12.2
15	64QAM	36	20	10.70	11.19	10.84	
15	64QAM	36	39	10.65	11.14	10.77	
15	64QAM	75	0	10.62	11.07	10.78	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	14.03	14.05	14.01	15.2
10	QPSK	1	25	13.84	13.91	13.88	
10	QPSK	1	49	13.66	13.73	13.76	
10	QPSK	25	0	12.87	12.99	12.97	14.2
10	QPSK	25	12	12.76	12.88	12.83	
10	QPSK	25	25	12.54	12.68	12.63	
10	QPSK	50	0	12.36	12.53	12.50	
10	16QAM	1	0	12.83	12.96	12.95	14.2
10	16QAM	1	25	12.75	12.83	12.81	
10	16QAM	1	49	12.51	12.70	12.60	
10	16QAM	25	0	11.70	11.93	11.77	13.2
10	16QAM	25	12	11.47	11.74	11.57	
10	16QAM	25	25	11.31	11.58	11.34	
10	16QAM	50	0	11.17	11.39	11.16	
10	64QAM	1	0	11.64	11.91	11.60	13.2
10	64QAM	1	25	11.46	11.94	11.54	
10	64QAM	1	49	11.42	11.93	11.56	
10	64QAM	25	0	10.72	11.23	10.87	12.2
10	64QAM	25	12	10.69	11.17	10.84	
10	64QAM	25	25	10.65	11.18	10.80	
10	64QAM	50	0	10.64	11.11	10.77	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	13.93	13.94	13.94	15.2
5	QPSK	1	12	13.79	13.83	13.83	
5	QPSK	1	24	13.61	13.66	13.69	
5	QPSK	12	0	12.85	12.87	12.92	14.2
5	QPSK	12	7	12.63	12.84	12.75	
5	QPSK	12	13	12.51	12.62	12.56	
5	QPSK	25	0	12.35	12.48	12.39	
5	16QAM	1	0	12.79	12.97	12.86	14.2
5	16QAM	1	12	12.68	12.77	12.75	
5	16QAM	1	24	12.45	12.63	12.54	
5	16QAM	12	0	11.61	11.85	11.72	13.2
5	16QAM	12	7	11.37	11.69	11.54	
5	16QAM	12	13	11.23	11.52	11.29	
5	16QAM	25	0	11.13	11.30	11.03	
5	64QAM	1	0	11.59	11.87	11.52	13.2
5	64QAM	1	12	11.37	11.88	11.49	
5	64QAM	1	24	11.34	11.85	11.46	
5	64QAM	12	0	10.68	11.22	10.79	12.2
5	64QAM	12	7	10.61	11.11	10.75	
5	64QAM	12	13	10.58	11.12	10.77	
5	64QAM	25	0	10.53	11.02	10.69	

Band 26 for FCC (dBm)
(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.71	22.77	22.73	23.5
15	QPSK	1	37	22.58	22.57	22.61	
15	QPSK	1	74	22.40	22.38	22.43	
15	QPSK	36	0	21.68	21.70	21.67	22.5
15	QPSK	36	20	21.49	21.52	21.49	
15	QPSK	36	39	21.29	21.31	21.34	
15	QPSK	75	0	21.15	21.23	21.21	
15	16QAM	1	0	21.57	21.63	21.65	22.5
15	16QAM	1	37	21.44	21.41	21.54	
15	16QAM	1	74	21.28	21.23	21.38	
15	16QAM	36	0	20.48	20.48	20.61	21.5
15	16QAM	36	20	20.32	20.32	20.51	
15	16QAM	36	39	20.16	20.13	20.41	
15	16QAM	75	0	19.95	19.92	20.19	
15	64QAM	1	0	20.00	19.86	20.19	20.5
15	64QAM	1	37	19.95	19.80	20.17	
15	64QAM	1	74	19.90	19.74	20.13	
15	64QAM	36	0	18.70	18.85	18.90	19.5
15	64QAM	36	20	18.65	18.55	18.95	
15	64QAM	36	39	18.61	18.54	18.94	
15	64QAM	75	0	18.03	17.99	18.37	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.67	22.73	22.69	23.5
10	QPSK	1	25	22.51	22.49	22.57	
10	QPSK	1	49	22.31	22.33	22.40	
10	QPSK	25	0	21.61	21.59	21.63	22.5
10	QPSK	25	12	21.41	21.47	21.40	
10	QPSK	25	25	21.26	21.28	21.29	
10	QPSK	50	0	21.10	21.15	21.15	
10	16QAM	1	0	21.54	21.55	21.57	22.5
10	16QAM	1	25	21.36	21.33	21.46	
10	16QAM	1	49	21.24	21.17	21.35	
10	16QAM	25	0	20.41	20.44	20.52	21.5
10	16QAM	25	12	20.26	20.27	20.46	
10	16QAM	25	25	20.10	20.05	20.36	
10	16QAM	50	0	19.92	19.89	20.15	
10	64QAM	1	0	19.92	19.81	20.16	20.5
10	64QAM	1	25	19.89	19.71	20.12	
10	64QAM	1	49	19.84	19.66	20.04	
10	64QAM	25	0	18.65	18.57	18.87	19.5
10	64QAM	25	12	18.58	18.49	18.86	
10	64QAM	25	25	18.52	18.50	18.90	
10	64QAM	50	0	17.95	17.92	18.31	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.63	22.69	22.70	23.5
5	QPSK	1	12	22.54	22.49	22.54	
5	QPSK	1	24	22.34	22.32	22.35	
5	QPSK	12	0	21.63	21.57	21.63	22.5
5	QPSK	12	7	21.44	21.47	21.41	
5	QPSK	12	13	21.20	21.24	21.26	
5	QPSK	25	0	21.06	21.10	21.16	
5	16QAM	1	0	21.50	21.60	21.58	22.5
5	16QAM	1	12	21.37	21.34	21.50	
5	16QAM	1	24	21.22	21.18	21.29	
5	16QAM	12	0	20.43	20.44	20.57	21.5
5	16QAM	12	7	20.29	20.27	20.42	
5	16QAM	12	13	20.13	20.07	20.38	
5	16QAM	25	0	19.92	19.89	20.13	
5	64QAM	1	0	19.96	19.79	20.10	20.5
5	64QAM	1	12	19.89	19.72	20.10	
5	64QAM	1	24	19.83	19.66	20.08	
5	64QAM	12	0	18.63	18.52	18.87	19.5
5	64QAM	12	7	18.59	18.48	18.90	
5	64QAM	12	13	18.56	18.47	18.90	
5	64QAM	25	0	17.99	17.93	18.33	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.67	22.70	22.70	23.5
3	QPSK	1	8	22.52	22.52	22.53	
3	QPSK	1	14	22.37	22.34	22.34	
3	QPSK	8	0	21.63	21.60	21.63	22.5
3	QPSK	8	4	21.45	21.47	21.41	
3	QPSK	8	7	21.24	21.26	21.30	
3	QPSK	15	0	21.06	21.15	21.15	
3	16QAM	1	0	21.52	21.58	21.58	22.5
3	16QAM	1	8	21.35	21.38	21.50	
3	16QAM	1	14	21.20	21.20	21.31	
3	16QAM	8	0	20.40	20.44	20.52	21.5
3	16QAM	8	4	20.23	20.24	20.43	
3	16QAM	8	7	20.13	20.09	20.34	
3	16QAM	15	0	19.90	19.89	20.15	
3	64QAM	1	0	19.95	19.79	20.11	20.5
3	64QAM	1	8	19.87	19.73	20.13	
3	64QAM	1	14	19.86	19.66	20.05	
3	64QAM	8	0	18.62	18.53	18.89	19.5
3	64QAM	8	4	18.59	18.49	18.88	
3	64QAM	8	7	18.53	18.49	18.87	
3	64QAM	15	0	17.94	17.95	18.29	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.63	22.69	22.66	23.5
1.4	QPSK	1	3	22.50	22.50	22.57	
1.4	QPSK	1	5	22.34	22.35	22.35	
1.4	QPSK	3	0	21.61	21.56	21.58	
1.4	QPSK	3	1	21.45	21.46	21.42	

1.4	QPSK	3	3	21.25	21.23	21.27	
1.4	QPSK	6	0	21.07	21.11	21.16	22.5
1.4	16QAM	1	0	21.49	21.59	21.58	22.5
1.4	16QAM	1	3	21.36	21.36	21.49	
1.4	16QAM	1	5	21.24	21.19	21.33	
1.4	16QAM	3	0	20.43	20.40	20.53	
1.4	16QAM	3	1	20.27	20.24	20.44	
1.4	16QAM	3	3	20.12	20.09	20.35	
1.4	16QAM	6	0	19.87	19.88	20.11	21.5
1.4	64QAM	1	0	19.94	19.81	20.15	20.5
1.4	64QAM	1	3	19.89	19.76	20.13	
1.4	64QAM	1	5	19.87	19.68	20.06	
1.4	64QAM	3	0	18.64	18.52	18.91	
1.4	64QAM	3	1	18.59	18.50	18.88	
1.4	64QAM	3	3	18.58	18.46	18.87	
1.4	64QAM	6	0	17.95	17.90	18.32	19.5

Band 38(only on channel required) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	19.22	19.32	19.30	20.3
20	QPSK	1	49	19.01	19.17	19.12	
20	QPSK	1	99	18.89	19.01	18.94	
20	QPSK	50	0	18.15	18.27	18.16	19.3
20	QPSK	50	24	17.98	18.05	17.95	
20	QPSK	50	50	17.83	17.91	17.83	
20	QPSK	100	0	17.68	17.74	17.62	
20	16QAM	1	0	18.10	18.22	18.08	19.3
20	16QAM	1	49	17.97	18.00	17.95	
20	16QAM	1	99	17.77	17.89	17.75	
20	16QAM	50	0	16.93	17.09	16.89	18.3
20	16QAM	50	24	16.75	16.97	16.68	
20	16QAM	50	50	16.64	16.80	16.54	
20	16QAM	100	0	16.47	16.65	16.38	
20	64QAM	1	0	16.01	16.19	15.82	17.8
20	64QAM	1	49	15.92	16.14	15.74	
20	64QAM	1	99	15.91	16.10	15.71	
20	64QAM	50	0	15.27	15.44	15.03	16.8
20	64QAM	50	24	15.23	15.38	15.01	
20	64QAM	50	50	15.21	15.31	14.95	
20	64QAM	100	0	15.19	15.27	14.93	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.17	19.24	19.25	20.3
15	QPSK	1	37	18.97	19.12	19.08	
15	QPSK	1	74	18.86	18.94	18.90	
15	QPSK	36	0	18.04	18.24	18.08	19.3
15	QPSK	36	20	17.91	18.01	17.87	
15	QPSK	36	39	17.77	17.84	17.78	
15	QPSK	75	0	17.64	17.65	17.57	
15	16QAM	1	0	18.03	18.17	18.02	19.3
15	16QAM	1	37	17.94	17.94	17.92	
15	16QAM	1	74	17.73	17.86	17.66	
15	16QAM	36	0	16.89	17.02	16.81	18.3
15	16QAM	36	20	16.68	16.90	16.63	
15	16QAM	36	39	16.58	16.76	16.46	
15	16QAM	75	0	16.41	16.57	16.32	
15	64QAM	1	0	15.97	16.15	15.76	17.8
15	64QAM	1	37	15.84	16.06	15.68	
15	64QAM	1	74	15.82	16.04	15.64	
15	64QAM	36	0	15.23	15.39	14.95	16.8
15	64QAM	36	20	15.19	15.35	14.92	
15	64QAM	36	39	15.15	15.24	14.89	
15	64QAM	75	0	15.10	15.21	14.90	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.08	19.19	19.16	20.3
10	QPSK	1	25	18.88	19.02	18.98	
10	QPSK	1	49	18.78	18.88	18.82	
10	QPSK	25	0	17.96	18.18	18.04	19.3
10	QPSK	25	12	17.87	17.92	17.81	
10	QPSK	25	25	17.69	17.83	17.67	
10	QPSK	50	0	17.56	17.59	17.52	
10	16QAM	1	0	17.99	18.10	17.99	19.3
10	16QAM	1	25	17.85	17.88	17.85	
10	16QAM	1	49	17.60	17.80	17.63	
10	16QAM	25	0	16.84	16.98	16.81	18.3
10	16QAM	25	12	16.64	16.84	16.57	
10	16QAM	25	25	16.56	16.67	16.43	
10	16QAM	50	0	16.35	16.53	16.22	
10	64QAM	1	0	15.85	16.09	15.72	18.3
10	64QAM	1	25	15.79	16.00	15.66	
10	64QAM	1	49	15.81	15.99	15.60	
10	64QAM	25	0	15.12	15.28	14.94	17.3
10	64QAM	25	12	15.07	15.27	14.91	
10	64QAM	25	25	15.09	15.22	14.85	
10	64QAM	50	0	15.08	15.20	14.80	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.09	19.21	19.18	20.3
5	QPSK	1	12	18.87	19.01	19.02	
5	QPSK	1	24	18.81	18.85	18.81	
5	QPSK	12	0	17.95	18.15	18.05	19.3
5	QPSK	12	7	17.82	17.97	17.82	
5	QPSK	12	13	17.68	17.82	17.72	
5	QPSK	25	0	17.55	17.60	17.51	
5	16QAM	1	0	17.98	18.09	17.95	19.3
5	16QAM	1	12	17.85	17.89	17.81	
5	16QAM	1	24	17.61	17.76	17.64	
5	16QAM	12	0	16.86	16.99	16.81	18.3
5	16QAM	12	7	16.65	16.83	16.59	
5	16QAM	12	13	16.53	16.69	16.44	
5	16QAM	25	0	16.35	16.57	16.27	
5	64QAM	1	0	15.88	16.09	15.74	17.8
5	64QAM	1	12	15.79	16.00	15.66	
5	64QAM	1	24	15.83	15.97	15.56	
5	64QAM	12	0	15.13	15.31	14.93	16.8
5	64QAM	12	7	15.07	15.30	14.88	
5	64QAM	12	13	15.12	15.20	14.83	
5	64QAM	25	0	15.03	15.17	14.78	

Band 41 (2535~2655MHz) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				40140	40390	40640	40890	41140	
Frequency (MHz)				2545	2570	2595	2620	2645	
20	QPSK	1	0	19.40	19.35	19.42	19.30	19.29	20.3
20	QPSK	1	49	19.23	19.21	19.31	19.13	19.09	
20	QPSK	1	99	19.01	19.05	19.17	18.97	18.98	
20	QPSK	50	0	18.24	18.29	18.36	18.27	18.27	19.3
20	QPSK	50	24	18.14	18.09	18.21	18.09	18.08	
20	QPSK	50	50	18.02	17.94	18.09	17.97	17.89	
20	QPSK	100	0	17.84	17.75	17.96	17.81	17.72	
20	16QAM	1	0	18.31	18.16	18.42	18.21	18.12	19.3
20	16QAM	1	49	18.15	18.06	18.24	18.07	18.01	
20	16QAM	1	99	18.00	17.88	18.05	17.86	17.80	
20	16QAM	50	0	17.23	17.07	17.24	17.02	16.97	18.3
20	16QAM	50	24	17.02	16.93	17.10	16.89	16.81	
20	16QAM	50	50	16.90	16.80	16.98	16.68	16.61	
20	16QAM	100	0	16.73	16.62	16.79	16.49	16.50	
20	64QAM	1	0	15.91	15.87	15.95	15.72	15.68	17.8
20	64QAM	1	49	15.88	15.80	15.94	15.61	15.67	
20	64QAM	1	99	15.84	15.72	15.87	15.54	15.65	
20	64QAM	50	0	15.14	15.07	15.23	14.85	15.01	16.8
20	64QAM	50	24	15.10	15.03	15.19	14.80	15.00	
20	64QAM	50	50	15.06	14.98	15.12	14.77	14.98	
20	64QAM	100	0	14.99	14.92	15.10	14.73	14.95	
Channel				40115	40378	40640	40903	41165	Tune-up limit (dBm)
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5	
15	QPSK	1	0	19.37	19.29	19.39	19.29	19.23	20.3
15	QPSK	1	37	19.17	19.18	19.26	19.12	19.11	
15	QPSK	1	74	18.93	18.98	19.14	18.90	18.89	
15	QPSK	36	0	18.16	18.23	18.28	18.10	18.18	19.3
15	QPSK	36	20	18.07	18.03	18.12	18.02	17.95	
15	QPSK	36	39	17.95	17.91	18.04	17.91	17.83	
15	QPSK	75	0	17.81	17.69	17.90	17.74	17.65	
15	16QAM	1	0	18.24	18.09	18.36	18.16	18.00	19.3
15	16QAM	1	37	18.11	18.02	18.19	18.07	17.99	
15	16QAM	1	74	17.95	17.79	17.97	17.88	17.70	
15	16QAM	36	0	17.18	17.02	17.19	17.12	16.97	18.3
15	16QAM	36	20	16.97	16.87	17.05	16.93	16.79	
15	16QAM	36	39	16.81	16.73	16.89	16.73	16.69	
15	16QAM	75	0	16.69	16.58	16.76	16.60	16.50	
15	64QAM	1	0	15.82	15.83	15.91	15.79	15.76	17.8
15	64QAM	1	37	15.82	15.77	15.91	15.79	15.69	
15	64QAM	1	74	15.75	15.66	15.83	15.66	15.59	
15	64QAM	36	0	15.11	14.99	15.15	15.07	14.91	16.8
15	64QAM	36	20	15.03	14.97	15.13	14.99	14.93	
15	64QAM	36	39	15.00	14.91	15.07	14.91	14.86	
15	64QAM	75	0	14.92	14.83	15.01	14.83	14.77	
Channel				40090	40365	40640	40915	41190	Tune-up limit (dBm)
Frequency (MHz)				2540	2567.5	2595	2622.5	2650	
10	QPSK	1	0	19.32	19.22	19.29	19.24	19.30	20.3
10	QPSK	1	25	19.09	19.11	19.14	19.10	19.19	
10	QPSK	1	49	18.90	18.90	18.88	18.92	19.05	
10	QPSK	25	0	18.11	18.19	18.10	18.15	18.20	19.3
10	QPSK	25	12	18.01	17.94	18.02	18.00	18.07	
10	QPSK	25	25	17.90	17.82	17.92	17.83	18.00	
10	QPSK	50	0	17.76	17.60	17.75	17.66	17.85	
10	16QAM	1	0	18.18	18.06	18.15	18.01	18.28	19.3
10	16QAM	1	25	18.04	17.96	18.05	17.98	18.10	
10	16QAM	1	49	17.92	17.74	17.91	17.73	17.90	
10	16QAM	25	0	17.14	16.94	17.14	16.94	17.16	18.3
10	16QAM	25	12	16.90	16.79	16.93	16.78	17.01	
10	16QAM	25	25	16.73	16.66	16.77	16.68	16.81	
10	16QAM	50	0	16.63	16.52	16.65	16.53	16.72	
10	64QAM	1	0	15.77	15.75	15.75	15.77	15.85	17.8
10	64QAM	1	25	15.73	15.70	15.78	15.69	15.85	
10	64QAM	1	49	15.70	15.61	15.71	15.58	15.77	
10	64QAM	25	0	15.06	14.94	15.05	14.96	15.07	16.8
10	64QAM	25	12	14.99	14.93	14.98	14.91	15.04	
10	64QAM	25	25	14.96	14.82	14.94	14.83	15.01	
10	64QAM	50	0	14.86	14.78	14.84	14.76	14.92	
Channel				40065	40353	40640	40928	41215	Tune-up limit (dBm)
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5	
5	QPSK	1	0	19.30	19.24	19.31	19.24	19.34	20.3
5	QPSK	1	12	19.10	19.13	19.12	19.11	19.18	
5	QPSK	1	24	18.88	18.94	18.85	18.90	19.08	
5	QPSK	12	0	18.08	18.17	18.08	18.14	18.20	19.3
5	QPSK	12	7	18.04	17.95	17.99	17.95	18.04	
5	QPSK	12	13	17.87	17.87	17.89	17.87	17.97	
5	QPSK	25	0	17.78	17.60	17.78	17.62	17.83	
5	16QAM	1	0	18.18	18.04	18.19	18.02	18.29	19.3
5	16QAM	1	12	18.02	17.98	18.03	17.96	18.15	
5	16QAM	1	24	17.91	17.73	17.88	17.74	17.91	
5	16QAM	12	0	17.11	16.95	17.11	16.99	17.15	18.3
5	16QAM	12	7	16.90	16.80	16.89	16.78	16.98	
5	16QAM	12	13	16.76	16.64	16.73	16.65	16.86	
5	16QAM	25	0	16.60	16.53	16.61	16.54	16.67	
5	64QAM	1	0	15.77	15.80	15.79	15.77	15.86	17.8
5	64QAM	1	12	15.74	15.72	15.76	15.68	15.85	
5	64QAM	1	24	15.71	15.63	15.67	15.58	15.75	
5	64QAM	12	0	15.03	14.95	15.05	14.95	15.06	16.8
5	64QAM	12	7	14.95	14.89	14.98	14.92	15.05	
5	64QAM	12	13	14.92	14.87	14.96	14.83	15.01	
5	64QAM	25	0	14.84	14.75	14.84	14.75	14.93	

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	17.66	17.67	17.61	18.5
20	QPSK	1	49	17.53	17.50	17.46	
20	QPSK	1	99	17.39	17.33	17.29	
20	QPSK	50	0	16.62	16.64	16.56	17.5
20	QPSK	50	24	16.48	16.39	16.41	
20	QPSK	50	50	16.29	16.24	16.30	
20	QPSK	100	0	16.11	16.16	16.13	
20	16QAM	1	0	16.52	16.55	16.57	17.5
20	16QAM	1	49	16.39	16.40	16.40	
20	16QAM	1	99	16.27	16.19	16.19	
20	16QAM	50	0	15.41	15.38	15.44	16.5
20	16QAM	50	24	15.28	15.23	15.27	
20	16QAM	50	50	15.14	15.13	15.16	
20	16QAM	100	0	15.01	14.96	15.05	
20	64QAM	1	0	14.51	14.49	14.51	16
20	64QAM	1	49	14.41	14.44	14.47	
20	64QAM	1	99	14.40	14.44	14.44	
20	64QAM	50	0	13.71	13.76	13.79	15
20	64QAM	50	24	13.64	13.75	13.76	
20	64QAM	50	50	13.59	13.74	13.68	
20	64QAM	100	0	13.58	13.74	13.62	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.63	17.61	17.63	18.5
15	QPSK	1	37	17.48	17.42	17.42	
15	QPSK	1	74	17.34	17.25	17.25	
15	QPSK	36	0	16.58	16.46	16.47	17.5
15	QPSK	36	20	16.41	16.35	16.36	
15	QPSK	36	39	16.24	16.17	16.25	
15	QPSK	75	0	16.04	16.07	16.06	
15	16QAM	1	0	16.48	16.51	16.51	17.5
15	16QAM	1	37	16.34	16.36	16.35	
15	16QAM	1	74	16.23	16.10	16.10	
15	16QAM	36	0	15.33	15.35	15.39	16.5
15	16QAM	36	20	15.23	15.18	15.22	
15	16QAM	36	39	15.10	15.08	15.10	
15	16QAM	75	0	14.94	14.91	15.00	
15	64QAM	1	0	14.45	14.44	14.43	16
15	64QAM	1	37	14.35	14.40	14.40	
15	64QAM	1	74	14.34	14.36	14.39	
15	64QAM	36	0	13.66	13.73	13.75	15
15	64QAM	36	20	13.61	13.66	13.72	
15	64QAM	36	39	13.55	13.70	13.63	
15	64QAM	75	0	13.50	13.66	13.56	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.56	17.60	17.56	18.5
10	QPSK	1	25	17.45	17.40	17.35	
10	QPSK	1	49	17.24	17.20	17.16	
10	QPSK	25	0	16.50	16.39	16.43	17.5
10	QPSK	25	12	16.33	16.33	16.31	
10	QPSK	25	25	16.18	16.12	16.21	
10	QPSK	50	0	15.96	15.99	16.04	
10	16QAM	1	0	16.39	16.40	16.46	17.5
10	16QAM	1	25	16.28	16.30	16.24	
10	16QAM	1	49	16.12	16.10	16.07	
10	16QAM	25	0	15.28	15.25	15.33	16.5
10	16QAM	25	12	15.19	15.15	15.15	
10	16QAM	25	25	15.04	14.96	15.04	
10	16QAM	50	0	14.87	14.82	14.88	
10	64QAM	1	0	14.39	14.38	14.38	16
10	64QAM	1	25	14.30	14.31	14.38	
10	64QAM	1	49	14.31	14.32	14.29	
10	64QAM	25	0	13.55	13.65	13.69	15
10	64QAM	25	12	13.55	13.61	13.64	
10	64QAM	25	25	13.51	13.63	13.53	
10	64QAM	50	0	13.50	13.64	13.49	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	17.58	17.59	17.58	18.5
5	QPSK	1	12	17.45	17.35	17.37	
5	QPSK	1	24	17.23	17.22	17.18	
5	QPSK	12	0	16.51	16.39	16.44	17.5
5	QPSK	12	7	16.34	16.29	16.30	
5	QPSK	12	13	16.15	16.10	16.20	
5	QPSK	25	0	15.98	16.02	16.01	
5	16QAM	1	0	16.37	16.38	16.42	17.5
5	16QAM	1	12	16.30	16.29	16.26	
5	16QAM	1	24	16.11	16.09	16.08	
5	16QAM	12	0	15.32	15.28	15.34	16.5
5	16QAM	12	7	15.19	15.10	15.13	
5	16QAM	12	13	15.05	15.00	15.03	
5	16QAM	25	0	14.91	14.80	14.94	
5	64QAM	1	0	14.35	14.39	14.43	16
5	64QAM	1	12	14.30	14.29	14.40	
5	64QAM	1	24	14.31	14.31	14.31	
5	64QAM	12	0	13.58	13.67	13.66	15
5	64QAM	12	7	13.55	13.58	13.65	
5	64QAM	12	13	13.49	13.66	13.53	
5	64QAM	25	0	13.49	13.62	13.46	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	17.57	17.56	17.59	18.5
3	QPSK	1	8	17.40	17.37	17.37	
3	QPSK	1	14	17.26	17.23	17.16	
3	QPSK	8	0	16.48	16.41	16.43	17.5
3	QPSK	8	4	16.34	16.32	16.33	

3	QPSK	8	7	16.15	16.13	16.19	[illegible]
3	QPSK	15	0	15.97	16.03	16.03	
3	16QAM	1	0	16.37	16.43	16.42	17.5
3	16QAM	1	8	16.30	16.25	16.27	
3	16QAM	1	14	16.12	16.09	16.06	
3	16QAM	8	0	15.28	15.28	15.34	16.5
3	16QAM	8	4	15.20	15.13	15.14	
3	16QAM	8	7	15.04	15.00	15.05	
3	16QAM	15	0	14.93	14.81	14.90	
3	64QAM	1	0	14.39	14.39	14.39	16
3	64QAM	1	8	14.31	14.32	14.38	
3	64QAM	1	14	14.33	14.29	14.30	
3	64QAM	8	0	13.57	13.65	13.68	15
3	64QAM	8	4	13.53	13.61	13.63	
3	64QAM	8	7	13.52	13.67	13.53	
3	64QAM	15	0	13.51	13.61	13.48	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.58	17.56	17.59	18.5
1.4	QPSK	1	3	17.44	17.35	17.35	
1.4	QPSK	1	5	17.23	17.23	17.19	
1.4	QPSK	3	0	16.48	16.40	16.45	
1.4	QPSK	3	1	16.34	16.32	16.28	
1.4	QPSK	3	3	16.20	16.11	16.17	
1.4	QPSK	6	0	15.95	16.02	16.04	17.5
1.4	16QAM	1	0	16.39	16.42	16.45	17.5
1.4	16QAM	1	3	16.26	16.26	16.25	
1.4	16QAM	1	5	16.11	16.09	16.09	
1.4	16QAM	3	0	15.31	15.23	15.34	
1.4	16QAM	3	1	15.18	15.11	15.10	
1.4	16QAM	3	3	15.05	14.98	15.05	
1.4	16QAM	6	0	14.92	14.79	14.90	16.5
1.4	64QAM	1	0	14.35	14.38	14.40	16
1.4	64QAM	1	3	14.28	14.31	14.36	
1.4	64QAM	1	5	14.33	14.30	14.30	
1.4	64QAM	3	0	13.55	13.66	13.70	
1.4	64QAM	3	1	13.51	13.61	13.63	
1.4	64QAM	3	3	13.50	13.65	13.55	
1.4	64QAM	6	0	13.49	13.62	13.49	15

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	16.40	18.00	14.00	88.61
		CH 44	5220	16.40	18.00	14.00	
		CH 48	5240	16.48	18.00	14.00	
	802.11n-HT20 MCS0	CH 36	5180	16.54	18.00	14.00	86.76
		CH 44	5220	16.66	18.00	14.00	
		CH 48	5240	16.44	18.00	14.00	
	802.11n-HT40 MCS0	CH 38	5190	15.68	17.00	14.00	76.32
		CH 46	5230	15.52	17.00	14.00	
	802.11ac-VHT20 MCS0	CH 36	5180	16.30	17.00	14.00	86.76
		CH 44	5220	16.25	17.00	14.00	
		CH 48	5240	15.98	17.00	14.00	
	802.11ac-VHT40 MCS0	CH 38	5190	16.12	17.00	14.00	78.95
		CH 46	5230	15.74	17.00	14.00	
	802.11ac-VHT80 MCS0	CH 42	5210	14.75	16.00	14.00	65.22

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	16.22	17.00	13.00	89.74
		CH 116	5580	16.01	17.00	13.00	
		CH 140	5700	16.02	17.00	13.00	
	802.11n-HT20 MCS0	CH 100	5500	15.74	17.00	13.00	86.76
		CH 116	5580	15.79	17.00	13.00	
		CH 140	5700	15.71	17.00	13.00	
	802.11n-HT40 MCS0	CH 102	5510	14.62	16.00	13.00	78.38
		CH 110	5550	14.86	16.00	13.00	
		CH 134	5670	14.75	16.00	13.00	
	802.11ac-VHT20 MCS0	CH 100	5500	15.41	16.00	13.00	86.76
		CH 116	5580	15.54	16.00	13.00	
		CH 140	5700	15.34	16.00	13.00	
	802.11ac-VHT40 MCS0	CH 102	5510	14.82	16.00	13.00	78.95
		CH 110	5550	15.70	17.00	13.00	
		CH 134	5670	14.92	16.00	13.00	
	802.11ac-VHT80 MCS0	CH 106	5530	13.83	15.00	13.00	65.22
		CH 122	5610	13.66	15.00	13.00	

Reduced Power Level 2

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	13.63	15.00	14.00	97.99
		CH 6	2437	12.88	14.00	14.00	
		CH 11	2462	13.47	14.50	14.00	
	802.11g 6Mbps	CH 1	2412	12.34	14.00	14.00	88.68
		CH 6	2437	11.44	13.00	14.00	
		CH 11	2462	12.27	14.00	14.00	
	802.11n-HT20 MCS0	CH 1	2412	12.04	14.00	14.00	86.71
		CH 6	2437	11.14	13.00	14.00	
		CH 11	2462	11.79	13.00	14.00	
	802.11n-HT40 MCS0	CH 3	2422	11.01	13.00	14.00	77.57
		CH 6	2437	10.33	12.00	14.00	
		CH 9	2452	10.30	12.00	14.00	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	12.40	14.00	11.00	88.61
		CH 44	5220	12.40	14.00	11.00	
		CH 48	5240	12.48	14.00	11.00	
	802.11n-HT20 MCS0	CH 36	5180	12.69	14.00	11.00	86.76
		CH 44	5220	12.78	14.00	11.00	
		CH 48	5240	12.51	14.00	11.00	
	802.11n-HT40 MCS0	CH 38	5190	11.68	13.00	11.00	76.32
		CH 46	5230	11.52	13.00	11.00	
	802.11ac-VHT20 MCS0	CH 36	5180	12.30	13.00	11.00	86.76
		CH 44	5220	12.25	13.00	11.00	
		CH 48	5240	11.98	13.00	11.00	
	802.11ac-VHT40 MCS0	CH 38	5190	12.12	13.00	11.00	78.95
		CH 46	5230	11.74	13.00	11.00	
	802.11ac-VHT80 MCS0	CH 42	5210	10.75	12.00	11.00	65.22

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	13.34	15.00	11.00	89.74
		CH 60	5300	13.29	15.00	11.00	
		CH 64	5320	13.02	15.00	11.00	
	802.11n-HT20 MCS0	CH 52	5260	13.95	15.00	11.00	86.76
		CH 60	5300	13.77	15.00	11.00	
		CH 64	5320	13.66	15.00	11.00	
	802.11n-HT40 MCS0	CH 54	5270	12.08	14.00	11.00	78.95
		CH 62	5310	12.19	14.00	11.00	
	802.11ac-VHT20 MCS0	CH 52	5260	13.17	14.00	11.00	86.96
		CH 60	5300	13.05	14.00	11.00	
		CH 64	5320	12.68	14.00	11.00	
	802.11ac-VHT40 MCS0	CH 54	5270	12.42	14.00	11.00	76.92
		CH 62	5310	12.49	14.00	11.00	
	802.11ac-VHT80 MCS0	CH 58	5290	11.39	13.00	11.00	65.22

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	11.24	12.50	8.00	89.74
		CH 116	5580	11.15	12.50	8.00	
		CH 140	5700	10.73	12.00	8.00	
	802.11n-HT20 MCS0	CH 100	5500	10.74	12.00	8.00	86.76
		CH 116	5580	10.79	12.00	8.00	
		CH 140	5700	10.71	12.00	8.00	
	802.11n-HT40 MCS0	CH 102	5510	9.62	11.00	8.00	78.38
		CH 110	5550	9.86	11.00	8.00	
		CH 134	5670	9.75	11.00	8.00	
	802.11ac-VHT20 MCS0	CH 100	5500	10.41	11.00	8.00	86.76
		CH 116	5580	10.54	11.00	8.00	
		CH 140	5700	10.34	11.00	8.00	
	802.11ac-VHT40 MCS0	CH 102	5510	9.82	11.00	8.00	78.95
		CH 110	5550	10.70	12.00	8.00	
		CH 134	5670	9.92	11.00	8.00	
	802.11ac-VHT80 MCS0	CH 106	5530	8.83	10.00	8.00	65.22
		CH 122	5610	8.66	10.00	8.00	

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	12.88	14.00	10.00	89.74
		CH 157	5785	12.70	14.00	10.00	
		CH 165	5825	12.76	14.00	10.00	
	802.11n-HT20 MCS0	CH 149	5745	12.70	14.00	10.00	86.76
		CH 157	5785	12.48	14.00	10.00	
		CH 165	5825	12.61	14.00	10.00	
	802.11n-HT40 MCS0	CH 151	5755	11.83	13.00	10.00	78.95
		CH 159	5795	11.88	13.00	10.00	
	802.11ac-VHT20 MCS0	CH 149	5745	12.58	14.00	10.00	86.96
		CH 157	5785	12.23	14.00	10.00	
		CH 165	5825	12.41	14.00	10.00	
	802.11ac-VHT40 MCS0	CH 151	5755	12.57	14.00	10.00	76.92
		CH 159	5795	12.72	14.00	10.00	
	802.11ac-VHT80 MCS0	CH 155	5775	10.59	12.00	10.00	65.22

Reduced Power Level 3 （ANT0）

Band		WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		1312	1413	1513	
Rx Channel		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	22.31	22.52	22.37	23.50
Attenuator			Cable Loss		
Mode			Max.	22.52	

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	20.68	20.73	20.67	21.5
20	QPSK	1	49	20.55	20.51	20.57	
20	QPSK	1	99	20.34	20.36	20.37	
20	QPSK	50	0	19.61	19.65	19.63	20.5
20	QPSK	50	24	19.46	19.47	19.46	
20	QPSK	50	50	19.32	19.34	19.33	
20	QPSK	100	0	19.16	19.20	19.18	
20	16QAM	1	0	19.60	19.55	19.57	20.5
20	16QAM	1	49	19.40	19.38	19.45	
20	16QAM	1	99	19.21	19.26	19.34	
20	16QAM	50	0	18.40	18.47	18.57	19.5
20	16QAM	50	24	18.28	18.32	18.44	
20	16QAM	50	50	18.15	18.19	18.28	
20	16QAM	100	0	18.00	18.01	18.09	
20	64QAM	1	0	18.48	18.50	18.54	19.5
20	64QAM	1	49	18.47	18.49	18.53	
20	64QAM	1	99	18.45	18.42	18.52	
20	64QAM	50	0	17.76	17.72	17.84	18.5
20	64QAM	50	24	17.73	17.68	17.81	
20	64QAM	50	50	17.67	17.64	17.76	
20	64QAM	100	0	17.66	17.59	17.73	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.63	20.69	20.63	21.5
15	QPSK	1	37	20.50	20.47	20.54	
15	QPSK	1	74	20.25	20.29	20.30	
15	QPSK	36	0	19.57	19.52	19.58	20.5
15	QPSK	36	20	19.42	19.39	19.43	
15	QPSK	36	39	19.27	19.28	19.27	
15	QPSK	75	0	19.12	19.12	19.12	
15	16QAM	1	0	19.57	19.47	19.51	20.5
15	16QAM	1	37	19.35	19.29	19.39	
15	16QAM	1	74	19.16	19.18	19.28	
15	16QAM	36	0	18.31	18.44	18.51	19.5
15	16QAM	36	20	18.21	18.28	18.37	
15	16QAM	36	39	18.11	18.10	18.20	
15	16QAM	75	0	17.96	17.94	18.03	
15	64QAM	1	0	18.45	18.46	18.49	19.5
15	64QAM	1	37	18.40	18.42	18.48	
15	64QAM	1	74	18.38	18.39	18.45	
15	64QAM	36	0	17.69	17.66	17.77	18.5
15	64QAM	36	20	17.68	17.65	17.77	
15	64QAM	36	39	17.63	17.56	17.69	
15	64QAM	75	0	17.60	17.51	17.67	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.53	20.58	20.57	21.5
10	QPSK	1	25	20.43	20.45	20.45	
10	QPSK	1	49	20.27	20.21	20.24	
10	QPSK	25	0	19.52	19.44	19.51	20.5
10	QPSK	25	12	19.37	19.37	19.30	
10	QPSK	25	25	19.21	19.18	19.24	
10	QPSK	50	0	19.00	19.02	19.09	
10	16QAM	1	0	19.48	19.43	19.47	20.5
10	16QAM	1	25	19.31	19.26	19.33	
10	16QAM	1	49	19.08	19.15	19.20	
10	16QAM	25	0	18.31	18.38	18.49	19.5
10	16QAM	25	12	18.17	18.20	18.36	
10	16QAM	25	25	18.00	18.04	18.16	
10	16QAM	50	0	17.83	17.91	18.00	
10	64QAM	1	0	18.40	18.37	18.43	19.5
10	64QAM	1	25	18.31	18.34	18.43	
10	64QAM	1	49	18.33	18.30	18.36	
10	64QAM	25	0	17.65	17.62	17.72	18.5
10	64QAM	25	12	17.62	17.57	17.74	
10	64QAM	25	25	17.54	17.52	17.70	
10	64QAM	50	0	17.51	17.44	17.63	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.56	20.61	20.57	21.5
5	QPSK	1	12	20.40	20.42	20.49	
5	QPSK	1	24	20.24	20.25	20.22	
5	QPSK	12	0	19.50	19.45	19.51	20.5
5	QPSK	12	7	19.36	19.39	19.31	
5	QPSK	12	13	19.20	19.23	19.22	
5	QPSK	25	0	19.00	19.05	19.08	
5	16QAM	1	0	19.50	19.40	19.42	20.5
5	16QAM	1	12	19.28	19.26	19.34	
5	16QAM	1	24	19.04	19.12	19.25	
5	16QAM	12	0	18.30	18.35	18.48	19.5
5	16QAM	12	7	18.13	18.20	18.36	
5	16QAM	12	13	18.00	18.04	18.14	
5	16QAM	25	0	17.87	17.91	18.00	
5	64QAM	1	0	18.37	18.38	18.43	19.5
5	64QAM	1	12	18.36	18.33	18.45	
5	64QAM	1	24	18.37	18.25	18.38	
5	64QAM	12	0	17.67	17.64	17.74	18.5
5	64QAM	12	7	17.60	17.57	17.69	
5	64QAM	12	13	17.56	17.48	17.67	
5	64QAM	25	0	17.49	17.42	17.62	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.54	20.59	20.56	21.5
3	QPSK	1	8	20.45	20.40	20.46	
3	QPSK	1	14	20.28	20.22	20.21	

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.86	23.88	23.87	24.8
10	QPSK	1	25	23.75	23.72	23.67	
10	QPSK	1	49	23.61	23.52	23.50	
10	QPSK	25	0	22.82	22.83	22.77	23.8
10	QPSK	25	12	22.65	22.60	22.52	
10	QPSK	25	25	22.52	22.41	22.40	
10	QPSK	50	0	22.41	22.44	22.35	
10	16QAM	1	0	22.80	22.62	22.61	23.8
10	16QAM	1	25	22.61	22.48	22.49	
10	16QAM	1	49	22.43	22.36	22.35	
10	16QAM	25	0	21.67	21.56	21.51	22.8
10	16QAM	25	12	21.56	21.37	21.31	
10	16QAM	25	25	21.44	21.23	21.20	
10	16QAM	50	0	21.30	21.11	21.09	
10	64QAM	1	0	20.81	20.65	20.63	22.3
10	64QAM	1	25	20.72	20.64	20.59	
10	64QAM	1	49	20.68	20.63	20.56	
10	64QAM	25	0	20.02	20.00	19.89	21.3
10	64QAM	25	12	19.99	20.00	19.82	
10	64QAM	25	25	19.91	19.98	19.80	
10	64QAM	50	0	18.84	18.95	18.79	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.81	23.79	23.78	24.8
5	QPSK	1	12	23.71	23.69	23.63	
5	QPSK	1	24	23.56	23.48	23.44	
5	QPSK	12	0	22.74	22.70	22.61	23.8
5	QPSK	12	7	22.58	22.52	22.45	
5	QPSK	12	13	22.45	22.34	22.36	
5	QPSK	25	0	22.35	22.18	22.16	
5	16QAM	1	0	22.74	22.54	22.53	23.8
5	16QAM	1	12	22.53	22.43	22.42	
5	16QAM	1	24	22.35	22.30	22.26	
5	16QAM	12	0	21.63	21.48	21.43	22.8
5	16QAM	12	7	21.52	21.29	21.25	
5	16QAM	12	13	21.38	21.17	21.13	
5	16QAM	25	0	21.24	21.04	21.04	
5	64QAM	1	0	20.72	20.62	20.57	22.3
5	64QAM	1	12	20.68	20.56	20.52	
5	64QAM	1	24	20.61	20.56	20.50	
5	64QAM	12	0	19.96	19.91	19.84	21.3
5	64QAM	12	7	19.94	19.97	19.76	
5	64QAM	12	13	19.84	19.94	19.74	
5	64QAM	25	0	18.76	18.90	18.76	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.74	23.79	23.71	24.8
3	QPSK	1	8	23.66	23.60	23.56	
3	QPSK	1	14	23.50	23.41	23.35	
3	QPSK	8	0	22.74	22.62	22.61	23.8
3	QPSK	8	4	22.53	22.52	22.37	
3	QPSK	8	7	22.40	22.33	22.29	
3	QPSK	15	0	22.29	22.15	22.10	
3	16QAM	1	0	22.67	22.53	22.53	23.8
3	16QAM	1	8	22.52	22.35	22.39	
3	16QAM	1	14	22.37	22.22	22.25	
3	16QAM	8	0	21.57	21.46	21.37	22.8
3	16QAM	8	4	21.42	21.22	21.20	
3	16QAM	8	7	21.31	21.11	21.06	
3	16QAM	15	0	21.18	20.98	20.93	
3	64QAM	1	0	20.69	20.51	20.50	22.3
3	64QAM	1	8	20.59	20.52	20.46	
3	64QAM	1	14	20.54	20.48	20.40	
3	64QAM	8	0	19.90	19.92	19.74	21.3
3	64QAM	8	4	19.91	19.88	19.74	
3	64QAM	8	7	19.79	19.81	19.69	
3	64QAM	15	0	18.77	18.85	18.71	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.72	23.80	23.73	24.8
1.4	QPSK	1	3	23.62	23.57	23.58	
1.4	QPSK	1	5	23.50	23.41	23.40	
1.4	QPSK	3	0	22.69	22.59	22.58	
1.4	QPSK	3	1	22.51	22.51	22.40	
1.4	QPSK	3	3	22.42	22.28	22.33	
1.4	QPSK	6	0	22.31	22.13	22.08	23.8
1.4	16QAM	1	0	22.63	22.49	22.52	23.8
1.4	16QAM	1	3	22.49	22.37	22.39	
1.4	16QAM	1	5	22.33	22.22	22.23	
1.4	16QAM	3	0	21.54	21.43	21.35	
1.4	16QAM	3	1	21.44	21.24	21.24	
1.4	16QAM	3	3	21.32	21.10	21.09	
1.4	16QAM	6	0	21.19	20.96	20.95	22.8
1.4	64QAM	1	0	20.63	20.52	20.49	22.3
1.4	64QAM	1	3	20.62	20.51	20.50	
1.4	64QAM	1	5	20.53	20.50	20.41	
1.4	64QAM	3	0	19.88	19.88	19.73	
1.4	64QAM	3	1	19.88	19.88	19.70	
1.4	64QAM	3	3	19.82	19.83	19.69	
1.4	64QAM	6	0	18.72	18.85	18.71	21.3

3	QPSK	8	0	19.53	19.43	19.52	20.5
3	QPSK	8	4	19.38	19.39	19.35	
3	QPSK	8	7	19.18	19.21	19.20	
3	QPSK	15	0	19.01	19.01	19.08	
3	16QAM	1	0	19.49	19.41	19.42	20.5
3	16QAM	1	8	19.30	19.24	19.34	
3	16QAM	1	14	19.08	19.14	19.22	
3	16QAM	8	0	18.28	18.40	18.46	19.5
3	16QAM	8	4	18.13	18.22	18.37	
3	16QAM	8	7	18.05	18.08	18.13	
3	16QAM	15	0	17.85	17.88	17.95	
3	64QAM	1	0	18.39	18.39	18.40	19.5
3	64QAM	1	8	18.32	18.38	18.42	
3	64QAM	1	14	18.36	18.29	18.36	
3	64QAM	8	0	17.65	17.59	17.75	18.5
3	64QAM	8	4	17.58	17.59	17.74	
3	64QAM	8	7	17.54	17.47	17.69	
3	64QAM	15	0	17.51	17.45	17.64	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.55	20.62	20.54	21.5
1.4	QPSK	1	3	20.45	20.41	20.49	
1.4	QPSK	1	5	20.24	20.26	20.25	
1.4	QPSK	3	0	19.48	19.42	19.51	
1.4	QPSK	3	1	19.35	19.35	19.35	
1.4	QPSK	3	3	19.20	19.18	19.24	
1.4	QPSK	6	0	19.01	19.05	19.09	20.5
1.4	16QAM	1	0	19.52	19.39	19.43	20.5
1.4	16QAM	1	3	19.31	19.26	19.31	
1.4	16QAM	1	5	19.04	19.15	19.25	
1.4	16QAM	3	0	18.27	18.38	18.44	
1.4	16QAM	3	1	18.16	18.19	18.37	
1.4	16QAM	3	3	18.01	18.04	18.15	
1.4	16QAM	6	0	17.85	17.89	17.95	19.5
1.4	64QAM	1	0	18.39	18.39	18.41	19.5
1.4	64QAM	1	3	18.34	18.37	18.44	
1.4	64QAM	1	5	18.33	18.28	18.40	
1.4	64QAM	3	0	17.67	17.62	17.74	
1.4	64QAM	3	1	17.60	17.61	17.72	
1.4	64QAM	3	3	17.55	17.53	17.67	
1.4	64QAM	6	0	17.49	17.47	17.61	18.5

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	22.07	22.11	22.07	23.2
20	QPSK	1	49	21.93	21.97	21.94	
20	QPSK	1	99	21.74	21.77	21.83	
20	QPSK	50	0	20.95	21.07	21.05	22.2
20	QPSK	50	24	20.81	20.91	20.87	
20	QPSK	50	50	20.61	20.73	20.70	
20	QPSK	100	0	20.60	20.63	20.55	
20	16QAM	1	0	20.91	21.04	21.02	22.2
20	16QAM	1	49	20.79	20.88	20.85	
20	16QAM	1	99	20.59	20.77	20.68	
20	16QAM	50	0	19.76	20.00	19.82	21.2
20	16QAM	50	24	19.54	19.83	19.62	
20	16QAM	50	50	19.53	19.65	19.50	
20	16QAM	100	0	19.50	19.51	19.50	
20	64QAM	1	0	19.69	20.00	19.66	21.2
20	64QAM	1	49	19.51	19.99	19.60	
20	64QAM	1	99	19.50	19.98	19.60	
20	64QAM	50	0	18.80	19.30	18.93	20.2
20	64QAM	50	24	18.74	19.24	18.92	
20	64QAM	50	50	18.70	19.22	18.85	
20	64QAM	100	0	18.68	19.16	18.83	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.01	22.05	22.04	23.2
15	QPSK	1	37	21.87	21.94	21.87	
15	QPSK	1	74	21.65	21.71	21.76	
15	QPSK	36	0	20.88	20.99	21.00	22.2
15	QPSK	36	20	20.74	20.83	20.78	
15	QPSK	36	39	20.54	20.66	20.65	
15	QPSK	75	0	20.39	20.48	20.52	
15	16QAM	1	0	20.86	21.00	20.94	22.2
15	16QAM	1	37	20.75	20.83	20.80	
15	16QAM	1	74	20.51	20.69	20.60	
15	16QAM	36	0	19.72	19.93	19.77	21.2
15	16QAM	36	20	19.48	19.80	19.58	
15	16QAM	36	39	19.26	19.57	19.37	
15	16QAM	75	0	19.18	19.42	19.15	
15	64QAM	1	0	19.62	19.96	19.57	21.2
15	64QAM	1	37	19.45	19.96	19.53	
15	64QAM	1	74	19.42	19.93	19.56	
15	64QAM	36	0	18.72	19.26	18.89	20.2
15	64QAM	36	20	18.70	19.19	18.84	
15	64QAM	36	39	18.65	19.14	18.77	
15	64QAM	75	0	18.62	19.07	18.78	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.03	22.05	22.01	23.2
10	QPSK	1	25	21.84	21.91	21.88	
10	QPSK	1	49	21.66	21.73	21.76	
10	QPSK	25	0	20.87	20.99	20.97	22.2
10	QPSK	25	12	20.76	20.88	20.83	
10	QPSK	25	25	20.54	20.68	20.63	
10	QPSK	50	0	20.36	20.53	20.50	
10	16QAM	1	0	20.83	20.96	20.95	22.2
10	16QAM	1	25	20.75	20.83	20.81	
10	16QAM	1	49	20.51	20.70	20.60	
10	16QAM	25	0	19.70	19.93	19.77	21.2
10	16QAM	25	12	19.47	19.74	19.57	
10	16QAM	25	25	19.31	19.58	19.34	
10	16QAM	50	0	19.17	19.39	19.16	
10	64QAM	1	0	19.64	19.91	19.60	21.2
10	64QAM	1	25	19.46	19.94	19.54	
10	64QAM	1	49	19.42	19.93	19.56	
10	64QAM	25	0	18.72	19.23	18.87	20.2
10	64QAM	25	12	18.69	19.17	18.84	
10	64QAM	25	25	18.65	19.18	18.80	
10	64QAM	50	0	18.64	19.11	18.77	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	21.93	21.94	21.94	23.2
5	QPSK	1	12	21.79	21.83	21.83	
5	QPSK	1	24	21.61	21.66	21.69	
5	QPSK	12	0	20.85	20.87	20.92	22.2
5	QPSK	12	7	20.63	20.84	20.75	
5	QPSK	12	13	20.51	20.62	20.56	
5	QPSK	25	0	20.35	20.48	20.39	
5	16QAM	1	0	20.79	20.97	20.86	22.2
5	16QAM	1	12	20.68	20.77	20.75	
5	16QAM	1	24	20.45	20.63	20.54	
5	16QAM	12	0	19.61	19.85	19.72	21.2
5	16QAM	12	7	19.37	19.69	19.54	
5	16QAM	12	13	19.23	19.52	19.29	
5	16QAM	25	0	19.13	19.30	19.03	
5	64QAM	1	0	19.59	19.87	19.52	21.2
5	64QAM	1	12	19.37	19.88	19.49	
5	64QAM	1	24	19.34	19.85	19.46	
5	64QAM	12	0	18.68	19.22	18.79	20.2
5	64QAM	12	7	18.61	19.11	18.75	
5	64QAM	12	13	18.58	19.12	18.77	
5	64QAM	25	0	18.53	19.02	18.69	

Band 38(only on channel required) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.22	21.32	21.30	22.3
20	QPSK	1	49	21.01	21.17	21.12	
20	QPSK	1	99	20.89	21.01	20.94	
20	QPSK	50	0	20.15	20.27	20.16	21.3
20	QPSK	50	24	19.98	20.05	19.95	
20	QPSK	50	50	19.83	19.91	19.83	
20	QPSK	100	0	19.68	19.74	19.62	
20	16QAM	1	0	20.10	20.22	20.08	21.3
20	16QAM	1	49	19.97	20.00	19.95	
20	16QAM	1	99	19.77	19.89	19.75	
20	16QAM	50	0	18.93	19.09	18.89	20.3
20	16QAM	50	24	18.75	18.97	18.68	
20	16QAM	50	50	18.64	18.80	18.54	
20	16QAM	100	0	18.47	18.65	18.38	
20	64QAM	1	0	18.01	18.19	17.82	19.8
20	64QAM	1	49	17.92	18.14	17.74	
20	64QAM	1	99	17.91	18.10	17.71	
20	64QAM	50	0	17.27	17.44	17.03	18.8
20	64QAM	50	24	17.23	17.38	17.01	
20	64QAM	50	50	17.21	17.31	16.95	
20	64QAM	100	0	17.19	17.27	16.93	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.17	21.24	21.25	22.3
15	QPSK	1	37	20.97	21.12	21.08	
15	QPSK	1	74	20.86	20.94	20.90	
15	QPSK	36	0	20.04	20.24	20.08	21.3
15	QPSK	36	20	19.91	20.01	19.87	
15	QPSK	36	39	19.77	19.84	19.78	
15	QPSK	75	0	19.64	19.65	19.57	
15	16QAM	1	0	20.03	20.17	20.02	21.3
15	16QAM	1	37	19.94	19.94	19.92	
15	16QAM	1	74	19.73	19.86	19.66	
15	16QAM	36	0	18.89	19.02	18.81	20.3
15	16QAM	36	20	18.68	18.90	18.63	
15	16QAM	36	39	18.58	18.76	18.46	
15	16QAM	75	0	18.41	18.57	18.32	
15	64QAM	1	0	17.97	18.15	17.76	19.8
15	64QAM	1	37	17.84	18.06	17.68	
15	64QAM	1	74	17.82	18.04	17.64	
15	64QAM	36	0	17.23	17.39	16.95	18.8
15	64QAM	36	20	17.19	17.35	16.92	
15	64QAM	36	39	17.15	17.24	16.89	
15	64QAM	75	0	17.10	17.21	16.90	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.08	21.19	21.16	22.3
10	QPSK	1	25	20.88	21.02	20.98	
10	QPSK	1	49	20.78	20.88	20.82	
10	QPSK	25	0	19.96	20.18	20.04	21.3
10	QPSK	25	12	19.87	19.92	19.81	
10	QPSK	25	25	19.69	19.83	19.67	
10	QPSK	50	0	19.56	19.59	19.52	
10	16QAM	1	0	19.99	20.10	19.99	21.3
10	16QAM	1	25	19.85	19.88	19.85	
10	16QAM	1	49	19.60	19.80	19.63	
10	16QAM	25	0	18.84	18.98	18.81	20.3
10	16QAM	25	12	18.64	18.84	18.57	
10	16QAM	25	25	18.56	18.67	18.43	
10	16QAM	50	0	18.35	18.53	18.22	
10	64QAM	1	0	17.85	18.09	17.72	20.3
10	64QAM	1	25	17.79	18.00	17.66	
10	64QAM	1	49	17.81	17.99	17.60	
10	64QAM	25	0	17.12	17.28	16.94	19.3
10	64QAM	25	12	17.07	17.27	16.91	
10	64QAM	25	25	17.09	17.22	16.85	
10	64QAM	50	0	17.08	17.20	16.80	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.09	21.21	21.18	22.3
5	QPSK	1	12	20.87	21.01	21.02	
5	QPSK	1	24	20.81	20.85	20.81	
5	QPSK	12	0	19.95	20.15	20.05	21.3
5	QPSK	12	7	19.82	19.97	19.82	
5	QPSK	12	13	19.68	19.82	19.72	
5	QPSK	25	0	19.55	19.60	19.51	
5	16QAM	1	0	19.98	20.09	19.95	21.3
5	16QAM	1	12	19.85	19.89	19.81	
5	16QAM	1	24	19.61	19.76	19.64	
5	16QAM	12	0	18.86	18.99	18.81	20.3
5	16QAM	12	7	18.65	18.83	18.59	
5	16QAM	12	13	18.53	18.69	18.44	
5	16QAM	25	0	18.35	18.57	18.27	
5	64QAM	1	0	17.88	18.09	17.74	19.8
5	64QAM	1	12	17.79	18.00	17.66	
5	64QAM	1	24	17.83	17.97	17.56	
5	64QAM	12	0	17.13	17.31	16.93	18.8
5	64QAM	12	7	17.07	17.30	16.88	
5	64QAM	12	13	17.12	17.20	16.83	
5	64QAM	25	0	17.03	17.17	16.78	

Band 41 (2535~2655MHz) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				40140	40390	40640	40890	41140	
Frequency (MHz)				2545	2570	2595	2620	2645	
20	QPSK	1	0	21.40	21.35	21.42	21.30	21.29	22.3
20	QPSK	1	49	21.23	21.21	21.31	21.13	21.09	
20	QPSK	1	99	21.01	21.05	21.17	20.97	20.98	
20	QPSK	50	0	20.24	20.29	20.36	20.27	20.27	21.3
20	QPSK	50	24	20.14	20.09	20.21	20.09	20.08	
20	QPSK	50	50	20.02	19.94	20.09	19.97	19.89	
20	QPSK	100	0	19.84	19.75	19.96	19.81	19.72	
20	16QAM	1	0	20.31	20.16	20.42	20.21	20.12	21.3
20	16QAM	1	49	20.15	20.06	20.24	20.07	20.01	
20	16QAM	1	99	20.00	19.88	20.05	19.86	19.80	
20	16QAM	50	0	19.23	19.07	19.24	19.02	18.97	20.3
20	16QAM	50	24	19.02	18.93	19.10	18.89	18.81	
20	16QAM	50	50	18.90	18.80	18.98	18.68	18.61	
20	16QAM	100	0	18.73	18.62	18.79	18.49	18.50	
20	64QAM	1	0	17.91	17.87	17.95	17.72	17.68	19.8
20	64QAM	1	49	17.88	17.80	17.94	17.61	17.67	
20	64QAM	1	99	17.84	17.72	17.87	17.54	17.65	
20	64QAM	50	0	17.14	17.07	17.23	16.85	17.01	18.8
20	64QAM	50	24	17.10	17.03	17.19	16.80	17.00	
20	64QAM	50	50	17.06	16.98	17.12	16.77	16.98	
20	64QAM	100	0	16.99	16.92	17.10	16.73	16.95	
Channel				40115	40378	40640	40903	41165	Tune-up limit (dBm)
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5	
15	QPSK	1	0	21.37	21.29	21.39	21.29	21.23	22.3
15	QPSK	1	37	21.17	21.18	21.26	21.12	21.11	
15	QPSK	1	74	20.93	20.98	21.14	20.90	20.89	
15	QPSK	36	0	20.16	20.23	20.28	20.10	20.18	21.3
15	QPSK	36	20	20.07	20.03	20.12	20.02	19.95	
15	QPSK	36	39	19.95	19.91	20.04	19.91	19.83	
15	QPSK	75	0	19.81	19.69	19.90	19.74	19.65	
15	16QAM	1	0	20.24	20.09	20.36	20.16	20.00	21.3
15	16QAM	1	37	20.11	20.02	20.19	20.07	19.99	
15	16QAM	1	74	19.95	19.79	19.97	19.88	19.70	
15	16QAM	36	0	19.18	19.02	19.19	19.12	18.97	20.3
15	16QAM	36	20	18.97	18.87	19.05	18.93	18.79	
15	16QAM	36	39	18.81	18.73	18.89	18.73	18.69	
15	16QAM	75	0	18.69	18.58	18.76	18.60	18.50	
15	64QAM	1	0	17.82	17.83	17.91	17.79	17.76	19.8
15	64QAM	1	37	17.82	17.77	17.91	17.79	17.69	
15	64QAM	1	74	17.75	17.66	17.83	17.66	17.59	
15	64QAM	36	0	17.11	16.99	17.15	17.07	16.91	18.8
15	64QAM	36	20	17.03	16.97	17.13	16.99	16.93	
15	64QAM	36	39	17.00	16.91	17.07	16.91	16.86	
15	64QAM	75	0	16.92	16.83	17.01	16.83	16.77	
Channel				40090	40365	40640	40915	41190	Tune-up limit (dBm)
Frequency (MHz)				2540	2567.5	2595	2622.5	2650	
10	QPSK	1	0	21.32	21.22	21.29	21.24	21.30	22.3
10	QPSK	1	25	21.09	21.11	21.14	21.10	21.19	
10	QPSK	1	49	20.90	20.90	20.88	20.92	21.05	
10	QPSK	25	0	20.11	20.19	20.10	20.15	20.20	21.3
10	QPSK	25	12	20.01	19.94	20.02	20.00	20.07	
10	QPSK	25	25	19.90	19.82	19.92	19.83	20.00	
10	QPSK	50	0	19.76	19.60	19.75	19.66	19.85	
10	16QAM	1	0	20.18	20.06	20.15	20.01	20.28	21.3
10	16QAM	1	25	20.04	19.96	20.05	19.98	20.10	
10	16QAM	1	49	19.92	19.74	19.91	19.73	19.90	
10	16QAM	25	0	19.14	18.94	19.14	18.94	19.16	20.3
10	16QAM	25	12	18.90	18.79	18.93	18.78	19.01	
10	16QAM	25	25	18.73	18.66	18.77	18.68	18.81	
10	16QAM	50	0	18.63	18.52	18.65	18.53	18.72	
10	64QAM	1	0	17.77	17.75	17.75	17.77	17.85	19.8
10	64QAM	1	25	17.73	17.70	17.78	17.69	17.85	
10	64QAM	1	49	17.70	17.61	17.71	17.58	17.77	
10	64QAM	25	0	17.06	16.94	17.05	16.96	17.07	18.8
10	64QAM	25	12	16.99	16.93	16.98	16.91	17.04	
10	64QAM	25	25	16.96	16.82	16.94	16.83	17.01	
10	64QAM	50	0	16.86	16.78	16.84	16.76	16.92	
Channel				40065	40353	40640	40928	41215	Tune-up limit (dBm)
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5	
5	QPSK	1	0	21.30	21.24	21.31	21.24	21.34	22.3
5	QPSK	1	12	21.10	21.13	21.12	21.11	21.18	
5	QPSK	1	24	20.88	20.94	20.85	20.90	21.08	
5	QPSK	12	0	20.08	20.17	20.08	20.14	20.20	21.3
5	QPSK	12	7	20.04	19.95	19.99	19.95	20.04	
5	QPSK	12	13	19.87	19.87	19.89	19.87	19.97	
5	QPSK	25	0	19.78	19.60	19.78	19.62	19.83	
5	16QAM	1	0	20.18	20.04	20.19	20.02	20.29	21.3
5	16QAM	1	12	20.02	19.98	20.03	19.96	20.15	
5	16QAM	1	24	19.91	19.73	19.88	19.74	19.91	
5	16QAM	12	0	19.11	18.95	19.11	18.99	19.15	20.3
5	16QAM	12	7	18.90	18.80	18.89	18.78	18.98	
5	16QAM	12	13	18.76	18.64	18.73	18.65	18.86	
5	16QAM	25	0	18.60	18.53	18.61	18.54	18.67	
5	64QAM	1	0	17.77	17.80	17.79	17.77	17.86	19.8
5	64QAM	1	12	17.74	17.72	17.76	17.68	17.85	
5	64QAM	1	24	17.71	17.63	17.67	17.58	17.75	
5	64QAM	12	0	17.03	16.95	17.05	16.95	17.06	18.8
5	64QAM	12	7	16.95	16.89	16.98	16.92	17.05	
5	64QAM	12	13	16.92	16.87	16.96	16.83	17.01	
5	64QAM	25	0	16.84	16.75	16.84	16.75	16.93	

Band 66 (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	21.16	21.17	21.11	22
20	QPSK	1	49	21.03	21.00	20.96	
20	QPSK	1	99	20.89	20.83	20.79	
20	QPSK	50	0	20.12	20.14	20.06	21
20	QPSK	50	24	19.98	19.89	19.91	
20	QPSK	50	50	19.79	19.74	19.80	
20	QPSK	100	0	19.61	19.66	19.63	
20	16QAM	1	0	20.02	20.05	20.07	21
20	16QAM	1	49	19.89	19.90	19.90	
20	16QAM	1	99	19.77	19.69	19.69	
20	16QAM	50	0	18.91	18.88	18.94	20
20	16QAM	50	24	18.78	18.73	18.77	
20	16QAM	50	50	18.64	18.63	18.66	
20	16QAM	100	0	18.51	18.46	18.55	
20	64QAM	1	0	18.01	17.99	18.01	19.5
20	64QAM	1	49	17.91	17.94	17.97	
20	64QAM	1	99	17.90	17.94	17.94	
20	64QAM	50	0	17.21	17.26	17.29	18.5
20	64QAM	50	24	17.14	17.25	17.26	
20	64QAM	50	50	17.09	17.24	17.18	
20	64QAM	100	0	17.08	17.24	17.12	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.13	21.11	21.13	22
15	QPSK	1	37	20.98	20.92	20.92	
15	QPSK	1	74	20.84	20.75	20.75	
15	QPSK	36	0	20.08	19.96	19.97	21
15	QPSK	36	20	19.91	19.85	19.86	
15	QPSK	36	39	19.74	19.67	19.75	
15	QPSK	75	0	19.54	19.57	19.56	
15	16QAM	1	0	19.98	20.01	20.01	21
15	16QAM	1	37	19.84	19.86	19.85	
15	16QAM	1	74	19.73	19.60	19.60	
15	16QAM	36	0	18.83	18.85	18.89	20
15	16QAM	36	20	18.73	18.68	18.72	
15	16QAM	36	39	18.60	18.58	18.60	
15	16QAM	75	0	18.44	18.41	18.50	
15	64QAM	1	0	17.95	17.94	17.93	19.5
15	64QAM	1	37	17.85	17.90	17.90	
15	64QAM	1	74	17.84	17.86	17.89	
15	64QAM	36	0	17.16	17.23	17.25	18.5
15	64QAM	36	20	17.11	17.16	17.22	
15	64QAM	36	39	17.05	17.20	17.13	
15	64QAM	75	0	17.00	17.16	17.06	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.06	21.10	21.06	22
10	QPSK	1	25	20.95	20.90	20.85	
10	QPSK	1	49	20.74	20.70	20.66	
10	QPSK	25	0	20.00	19.89	19.93	21
10	QPSK	25	12	19.83	19.83	19.81	
10	QPSK	25	25	19.68	19.62	19.71	
10	QPSK	50	0	19.46	19.49	19.54	
10	16QAM	1	0	19.89	19.90	19.96	21
10	16QAM	1	25	19.78	19.80	19.74	
10	16QAM	1	49	19.62	19.60	19.57	
10	16QAM	25	0	18.78	18.75	18.83	20
10	16QAM	25	12	18.69	18.65	18.65	
10	16QAM	25	25	18.54	18.46	18.54	
10	16QAM	50	0	18.37	18.32	18.38	
10	64QAM	1	0	17.89	17.88	17.88	19.5
10	64QAM	1	25	17.80	17.81	17.88	
10	64QAM	1	49	17.81	17.82	17.79	
10	64QAM	25	0	17.05	17.15	17.19	18.5
10	64QAM	25	12	17.05	17.11	17.14	
10	64QAM	25	25	17.01	17.13	17.03	
10	64QAM	50	0	17.00	17.14	16.99	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.08	21.09	21.08	22
5	QPSK	1	12	20.95	20.85	20.87	
5	QPSK	1	24	20.73	20.72	20.68	
5	QPSK	12	0	20.01	19.89	19.94	21
5	QPSK	12	7	19.84	19.79	19.80	
5	QPSK	12	13	19.65	19.60	19.70	
5	QPSK	25	0	19.48	19.52	19.51	
5	16QAM	1	0	19.87	19.88	19.92	21
5	16QAM	1	12	19.80	19.79	19.76	
5	16QAM	1	24	19.61	19.59	19.58	
5	16QAM	12	0	18.82	18.78	18.84	20
5	16QAM	12	7	18.69	18.60	18.63	
5	16QAM	12	13	18.55	18.50	18.53	
5	16QAM	25	0	18.41	18.30	18.44	
5	64QAM	1	0	17.85	17.89	17.93	19.5
5	64QAM	1	12	17.80	17.79	17.90	
5	64QAM	1	24	17.81	17.81	17.81	
5	64QAM	12	0	17.08	17.17	17.16	18.5
5	64QAM	12	7	17.05	17.08	17.15	
5	64QAM	12	13	16.99	17.16	17.03	
5	64QAM	25	0	16.99	17.12	16.96	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.07	21.06	21.09	22
3	QPSK	1	8	20.90	20.87	20.87	
3	QPSK	1	14	20.76	20.73	20.66	
3	QPSK	8	0	19.98	19.91	19.93	21
3	QPSK	8	4	19.84	19.82	19.83	

3	QPSK	8	7	19.65	19.63	19.69	21
3	QPSK	15	0	19.47	19.53	19.53	
3	16QAM	1	0	19.87	19.93	19.92	21
3	16QAM	1	8	19.80	19.75	19.77	
3	16QAM	1	14	19.62	19.59	19.56	
3	16QAM	8	0	18.78	18.78	18.84	20
3	16QAM	8	4	18.70	18.63	18.64	
3	16QAM	8	7	18.54	18.50	18.55	
3	16QAM	15	0	18.43	18.31	18.40	
3	64QAM	1	0	17.89	17.89	17.89	19.5
3	64QAM	1	8	17.81	17.82	17.88	
3	64QAM	1	14	17.83	17.79	17.80	
3	64QAM	8	0	17.07	17.15	17.18	18.5
3	64QAM	8	4	17.03	17.11	17.13	
3	64QAM	8	7	17.02	17.17	17.03	
3	64QAM	15	0	17.01	17.11	16.98	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.08	21.06	21.09	22
1.4	QPSK	1	3	20.94	20.85	20.85	
1.4	QPSK	1	5	20.73	20.73	20.69	
1.4	QPSK	3	0	19.98	19.90	19.95	
1.4	QPSK	3	1	19.84	19.82	19.78	
1.4	QPSK	3	3	19.70	19.61	19.67	
1.4	QPSK	6	0	19.45	19.52	19.54	21
1.4	16QAM	1	0	19.89	19.92	19.95	21
1.4	16QAM	1	3	19.76	19.76	19.75	
1.4	16QAM	1	5	19.61	19.59	19.59	
1.4	16QAM	3	0	18.81	18.73	18.84	
1.4	16QAM	3	1	18.68	18.61	18.60	
1.4	16QAM	3	3	18.55	18.48	18.55	
1.4	16QAM	6	0	18.42	18.29	18.40	20
1.4	64QAM	1	0	17.85	17.88	17.90	19.5
1.4	64QAM	1	3	17.78	17.81	17.86	
1.4	64QAM	1	5	17.83	17.80	17.80	
1.4	64QAM	3	0	17.05	17.16	17.20	
1.4	64QAM	3	1	17.01	17.11	17.13	
1.4	64QAM	3	3	17.00	17.15	17.05	
1.4	64QAM	6	0	16.99	17.12	16.99	18.5

Reduced Power Level 3 (ANT1)

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	20.20	20.22	20.17	21.00	21.31	21.42	21.37	22.50
Attenuator			Cable Loss				Cable Loss		
Mode			Max.	20.22			Max.	21.42	

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	20.05	20.10	20.03	21
20	QPSK	1	49	19.86	19.95	19.84	
20	QPSK	1	99	19.68	19.73	19.70	
20	QPSK	50	0	18.92	18.97	18.91	20
20	QPSK	50	24	18.74	18.82	18.81	
20	QPSK	50	50	18.62	18.64	18.66	
20	QPSK	100	0	18.48	18.53	18.47	
20	16QAM	1	0	18.94	19.02	18.86	20
20	16QAM	1	49	18.81	18.90	18.64	
20	16QAM	1	99	18.59	18.72	18.53	
20	16QAM	50	0	17.76	17.93	17.71	19
20	16QAM	50	24	17.60	17.82	17.58	
20	16QAM	50	50	17.45	17.68	17.38	
20	16QAM	100	0	17.25	17.57	17.18	
20	64QAM	1	0	17.70	18.00	17.72	19
20	64QAM	1	49	17.53	17.97	17.71	
20	64QAM	1	99	17.49	17.96	17.69	
20	64QAM	50	0	16.79	17.30	16.99	18
20	64QAM	50	24	16.75	17.29	16.91	
20	64QAM	50	50	16.69	17.26	16.85	
20	64QAM	100	0	16.67	17.23	16.84	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.98	20.06	19.98	21
15	QPSK	1	37	19.79	19.86	19.81	
15	QPSK	1	74	19.61	19.68	19.64	
15	QPSK	36	0	18.83	18.90	18.87	20
15	QPSK	36	20	18.70	18.77	18.73	
15	QPSK	36	39	18.54	18.57	18.59	
15	QPSK	75	0	18.44	18.44	18.39	
15	16QAM	1	0	18.86	18.95	18.81	20
15	16QAM	1	37	18.78	18.83	18.59	
15	16QAM	1	74	18.55	18.67	18.49	
15	16QAM	36	0	17.71	17.88	17.65	19
15	16QAM	36	20	17.54	17.78	17.54	
15	16QAM	36	39	17.40	17.60	17.34	
15	16QAM	75	0	17.21	17.51	17.13	
15	64QAM	1	0	17.62	17.92	17.68	19
15	64QAM	1	37	17.45	17.90	17.62	
15	64QAM	1	74	17.43	17.93	17.66	
15	64QAM	36	0	16.72	17.25	16.95	18
15	64QAM	36	20	16.68	17.25	16.88	
15	64QAM	36	39	16.61	17.20	16.80	
15	64QAM	75	0	16.59	17.15	16.80	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.95	19.98	19.91	21
10	QPSK	1	25	19.75	19.84	19.71	
10	QPSK	1	49	19.58	19.61	19.60	
10	QPSK	25	0	18.79	18.83	18.77	20
10	QPSK	25	12	18.62	18.72	18.67	
10	QPSK	25	25	18.51	18.52	18.58	
10	QPSK	50	0	18.36	18.41	18.35	
10	16QAM	1	0	18.83	18.88	18.72	20
10	16QAM	1	25	18.70	18.75	18.53	
10	16QAM	1	49	18.50	18.60	18.43	
10	16QAM	25	0	17.66	17.81	17.61	19
10	16QAM	25	12	17.49	17.66	17.44	
10	16QAM	25	25	17.35	17.52	17.24	
10	16QAM	50	0	17.14	17.44	17.08	
10	64QAM	1	0	17.56	17.87	17.59	19
10	64QAM	1	25	17.46	17.83	17.63	
10	64QAM	1	49	17.40	17.82	17.60	
10	64QAM	25	0	16.64	17.18	16.84	18
10	64QAM	25	12	16.61	17.15	16.78	
10	64QAM	25	25	16.59	17.13	16.72	
10	64QAM	50	0	16.57	17.12	16.68	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.96	19.99	19.89	21
5	QPSK	1	12	19.73	19.85	19.71	
5	QPSK	1	24	19.53	19.63	19.59	
5	QPSK	12	0	18.80	18.86	18.76	20
5	QPSK	12	7	18.58	18.71	18.71	
5	QPSK	12	13	18.49	18.52	18.53	
5	QPSK	25	0	18.39	18.39	18.34	
5	16QAM	1	0	18.81	18.91	18.72	20
5	16QAM	1	12	18.69	18.76	18.50	
5	16QAM	1	24	18.46	18.61	18.42	
5	16QAM	12	0	17.64	17.81	17.60	19
5	16QAM	12	7	17.47	17.69	17.44	
5	16QAM	12	13	17.35	17.52	17.24	
5	16QAM	25	0	17.10	17.42	17.07	
5	64QAM	1	0	17.58	17.88	17.59	19
5	64QAM	1	12	17.41	17.86	17.64	
5	64QAM	1	24	17.41	17.80	17.62	
5	64QAM	12	0	16.66	17.16	16.86	18
5	64QAM	12	7	16.60	17.17	16.78	
5	64QAM	12	13	16.55	17.13	16.76	
5	64QAM	25	0	16.55	17.12	16.69	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.99	20.02	19.96	21
3	QPSK	1	8	19.81	19.87	19.76	
3	QPSK	1	14	19.61	19.66	19.61	
3	QPSK	8	0	18.85	18.88	18.84	20
3	QPSK	8	4	18.68	18.79	18.74	

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	20.18	20.23	20.17	21
20	QPSK	1	49	20.05	20.01	20.07	
20	QPSK	1	99	19.84	19.86	19.87	
20	QPSK	50	0	19.11	19.15	19.13	20
20	QPSK	50	24	18.96	18.97	18.96	
20	QPSK	50	50	18.82	18.84	18.83	
20	QPSK	100	0	18.66	18.70	18.68	
20	16QAM	1	0	19.10	19.05	19.07	20
20	16QAM	1	49	18.90	18.88	18.95	
20	16QAM	1	99	18.71	18.76	18.84	
20	16QAM	50	0	17.90	17.97	18.07	19
20	16QAM	50	24	17.78	17.82	17.94	
20	16QAM	50	50	17.65	17.69	17.78	
20	16QAM	100	0	17.50	17.51	17.59	
20	64QAM	1	0	17.98	18.00	18.04	19
20	64QAM	1	49	17.97	17.99	18.03	
20	64QAM	1	99	17.95	17.92	18.02	
20	64QAM	50	0	17.26	17.22	17.34	18
20	64QAM	50	24	17.23	17.18	17.31	
20	64QAM	50	50	17.17	17.14	17.26	
20	64QAM	100	0	17.16	17.09	17.23	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.13	20.19	20.13	21
15	QPSK	1	37	20.00	19.97	20.04	
15	QPSK	1	74	19.75	19.79	19.80	
15	QPSK	36	0	19.07	19.02	19.08	20
15	QPSK	36	20	18.92	18.89	18.93	
15	QPSK	36	39	18.77	18.78	18.77	
15	QPSK	75	0	18.62	18.62	18.62	
15	16QAM	1	0	19.07	18.97	19.01	20
15	16QAM	1	37	18.85	18.79	18.89	
15	16QAM	1	74	18.66	18.68	18.78	
15	16QAM	36	0	17.81	17.94	18.01	19
15	16QAM	36	20	17.71	17.78	17.87	
15	16QAM	36	39	17.61	17.60	17.70	
15	16QAM	75	0	17.46	17.44	17.53	
15	64QAM	1	0	17.95	17.96	17.99	19
15	64QAM	1	37	17.90	17.92	17.98	
15	64QAM	1	74	17.88	17.89	17.95	
15	64QAM	36	0	17.19	17.16	17.27	18
15	64QAM	36	20	17.18	17.15	17.27	
15	64QAM	36	39	17.13	17.06	17.19	
15	64QAM	75	0	17.10	17.01	17.17	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.03	20.08	20.07	21
10	QPSK	1	25	19.93	19.95	19.95	
10	QPSK	1	49	19.77	19.71	19.74	
10	QPSK	25	0	19.02	18.94	19.01	20
10	QPSK	25	12	18.87	18.87	18.80	
10	QPSK	25	25	18.71	18.68	18.74	
10	QPSK	50	0	18.50	18.52	18.59	
10	16QAM	1	0	18.98	18.93	18.97	20
10	16QAM	1	25	18.81	18.76	18.83	
10	16QAM	1	49	18.58	18.65	18.70	
10	16QAM	25	0	17.81	17.88	17.99	19
10	16QAM	25	12	17.67	17.70	17.86	
10	16QAM	25	25	17.50	17.54	17.66	
10	16QAM	50	0	17.33	17.41	17.50	
10	64QAM	1	0	17.90	17.87	17.93	19
10	64QAM	1	25	17.81	17.84	17.93	
10	64QAM	1	49	17.83	17.80	17.86	
10	64QAM	25	0	17.15	17.12	17.22	18
10	64QAM	25	12	17.12	17.07	17.24	
10	64QAM	25	25	17.04	17.02	17.20	
10	64QAM	50	0	17.01	16.94	17.13	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.06	20.11	20.07	21
5	QPSK	1	12	19.90	19.92	19.99	
5	QPSK	1	24	19.74	19.75	19.72	
5	QPSK	12	0	19.00	18.95	19.01	20
5	QPSK	12	7	18.86	18.89	18.81	
5	QPSK	12	13	18.70	18.73	18.72	
5	QPSK	25	0	18.50	18.55	18.58	
5	16QAM	1	0	19.00	18.90	18.92	20
5	16QAM	1	12	18.78	18.76	18.84	
5	16QAM	1	24	18.54	18.62	18.75	
5	16QAM	12	0	17.80	17.85	17.98	19
5	16QAM	12	7	17.63	17.70	17.86	
5	16QAM	12	13	17.50	17.54	17.64	
5	16QAM	25	0	17.37	17.41	17.50	
5	64QAM	1	0	17.87	17.88	17.93	19
5	64QAM	1	12	17.86	17.83	17.95	
5	64QAM	1	24	17.87	17.75	17.88	
5	64QAM	12	0	17.17	17.14	17.24	18
5	64QAM	12	7	17.10	17.07	17.19	
5	64QAM	12	13	17.06	16.98	17.17	
5	64QAM	25	0	16.99	16.92	17.12	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.04	20.09	20.06	21
3	QPSK	1	8	19.95	19.90	19.96	
3	QPSK	1	14	19.78	19.72	19.71	
3	QPSK	8	0	19.03	18.93	19.02	20
3	QPSK	8	4	18.88	18.89	18.85	

3	QPSK	8	7	18.55	18.56	18.63	20
3	QPSK	15	0	18.42	18.47	18.43	
3	16QAM	1	0	18.90	18.99	18.80	20
3	16QAM	1	8	18.73	18.83	18.58	
3	16QAM	1	14	18.50	18.64	18.49	
3	16QAM	8	0	17.68	17.86	17.65	19
3	16QAM	8	4	17.52	17.74	17.52	
3	16QAM	8	7	17.40	17.61	17.32	
3	16QAM	15	0	17.21	17.51	17.11	
3	64QAM	1	0	17.61	17.92	17.65	19
3	64QAM	1	8	17.50	17.91	17.63	
3	64QAM	1	14	17.42	17.91	17.61	
3	64QAM	8	0	16.71	17.23	16.95	18
3	64QAM	8	4	16.68	17.23	16.85	
3	64QAM	8	7	16.60	17.19	16.79	
3	64QAM	15	0	16.63	17.18	16.80	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.93	19.97	19.91	21
1.4	QPSK	1	3	19.75	19.82	19.75	
1.4	QPSK	1	5	19.58	19.61	19.59	
1.4	QPSK	3	0	18.80	18.80	18.77	
1.4	QPSK	3	1	18.58	18.73	18.71	
1.4	QPSK	3	3	18.50	18.56	18.55	
1.4	QPSK	6	0	18.37	18.39	18.36	20
1.4	16QAM	1	0	18.80	18.89	18.77	20
1.4	16QAM	1	3	18.68	18.79	18.53	
1.4	16QAM	1	5	18.50	18.61	18.44	
1.4	16QAM	3	0	17.67	17.79	17.60	
1.4	16QAM	3	1	17.47	17.69	17.43	
1.4	16QAM	3	3	17.37	17.53	17.22	
1.4	16QAM	6	0	17.15	17.44	17.11	19
1.4	64QAM	1	0	17.59	17.86	17.63	19
1.4	64QAM	1	3	17.42	17.88	17.62	
1.4	64QAM	1	5	17.37	17.81	17.58	
1.4	64QAM	3	0	16.68	17.17	16.87	
1.4	64QAM	3	1	16.59	17.13	16.76	
1.4	64QAM	3	3	16.55	17.12	16.75	
1.4	64QAM	6	0	16.57	17.12	16.68	18

3	QPSK	8	7	18.68	18.71	18.70	20
3	QPSK	15	0	18.51	18.51	18.58	
3	16QAM	1	0	18.99	18.91	18.92	20
3	16QAM	1	8	18.80	18.74	18.84	
3	16QAM	1	14	18.58	18.64	18.72	
3	16QAM	8	0	17.78	17.90	17.96	19
3	16QAM	8	4	17.63	17.72	17.87	
3	16QAM	8	7	17.55	17.58	17.63	
3	16QAM	15	0	17.35	17.38	17.45	
3	64QAM	1	0	17.89	17.89	17.90	19
3	64QAM	1	8	17.82	17.88	17.92	
3	64QAM	1	14	17.86	17.79	17.86	
3	64QAM	8	0	17.15	17.09	17.25	18
3	64QAM	8	4	17.08	17.09	17.24	
3	64QAM	8	7	17.04	16.97	17.19	
3	64QAM	15	0	17.01	16.95	17.14	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.05	20.12	20.04	21
1.4	QPSK	1	3	19.95	19.91	19.99	
1.4	QPSK	1	5	19.74	19.76	19.75	
1.4	QPSK	3	0	18.98	18.92	19.01	
1.4	QPSK	3	1	18.85	18.85	18.85	
1.4	QPSK	3	3	18.70	18.68	18.74	
1.4	QPSK	6	0	18.51	18.55	18.59	20
1.4	16QAM	1	0	19.02	18.89	18.93	20
1.4	16QAM	1	3	18.81	18.76	18.81	
1.4	16QAM	1	5	18.54	18.65	18.75	
1.4	16QAM	3	0	17.77	17.88	17.94	
1.4	16QAM	3	1	17.66	17.69	17.87	
1.4	16QAM	3	3	17.51	17.54	17.65	
1.4	16QAM	6	0	17.35	17.39	17.45	19
1.4	64QAM	1	0	17.89	17.89	17.91	19
1.4	64QAM	1	3	17.84	17.87	17.94	
1.4	64QAM	1	5	17.83	17.78	17.90	
1.4	64QAM	3	0	17.17	17.12	17.24	
1.4	64QAM	3	1	17.10	17.11	17.22	
1.4	64QAM	3	3	17.05	17.03	17.17	
1.4	64QAM	6	0	16.99	16.97	17.11	18

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	14.07	14.11	14.07	15.2
20	QPSK	1	49	13.93	13.97	13.94	
20	QPSK	1	99	13.74	13.77	13.83	
20	QPSK	50	0	12.95	13.07	13.05	14.2
20	QPSK	50	24	12.81	12.91	12.87	
20	QPSK	50	50	12.61	12.73	12.70	
20	QPSK	100	0	12.60	12.63	12.55	
20	16QAM	1	0	12.91	13.04	13.02	14.2
20	16QAM	1	49	12.79	12.88	12.85	
20	16QAM	1	99	12.59	12.77	12.68	
20	16QAM	50	0	11.76	12.00	11.82	13.2
20	16QAM	50	24	11.54	11.83	11.62	
20	16QAM	50	50	11.53	11.65	11.50	
20	16QAM	100	0	11.50	11.51	11.50	
20	64QAM	1	0	11.69	12.00	11.66	13.2
20	64QAM	1	49	11.51	11.99	11.60	
20	64QAM	1	99	11.50	11.98	11.60	
20	64QAM	50	0	10.80	11.30	10.93	12.2
20	64QAM	50	24	10.74	11.24	10.92	
20	64QAM	50	50	10.70	11.22	10.85	
20	64QAM	100	0	10.68	11.16	10.83	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	14.01	14.05	14.04	15.2
15	QPSK	1	37	13.87	13.94	13.87	
15	QPSK	1	74	13.65	13.71	13.76	
15	QPSK	36	0	12.88	12.99	13.00	14.2
15	QPSK	36	20	12.74	12.83	12.78	
15	QPSK	36	39	12.54	12.66	12.65	
15	QPSK	75	0	12.39	12.48	12.52	
15	16QAM	1	0	12.86	13.00	12.94	14.2
15	16QAM	1	37	12.75	12.83	12.80	
15	16QAM	1	74	12.51	12.69	12.60	
15	16QAM	36	0	11.72	11.93	11.77	13.2
15	16QAM	36	20	11.48	11.80	11.58	
15	16QAM	36	39	11.26	11.57	11.37	
15	16QAM	75	0	11.18	11.42	11.15	
15	64QAM	1	0	11.62	11.96	11.57	13.2
15	64QAM	1	37	11.45	11.96	11.53	
15	64QAM	1	74	11.42	11.93	11.56	
15	64QAM	36	0	10.72	11.26	10.89	12.2
15	64QAM	36	20	10.70	11.19	10.84	
15	64QAM	36	39	10.65	11.14	10.77	
15	64QAM	75	0	10.62	11.07	10.78	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	14.03	14.05	14.01	15.2
10	QPSK	1	25	13.84	13.91	13.88	
10	QPSK	1	49	13.66	13.73	13.76	
10	QPSK	25	0	12.87	12.99	12.97	14.2
10	QPSK	25	12	12.76	12.88	12.83	
10	QPSK	25	25	12.54	12.68	12.63	
10	QPSK	50	0	12.36	12.53	12.50	
10	16QAM	1	0	12.83	12.96	12.95	14.2
10	16QAM	1	25	12.75	12.83	12.81	
10	16QAM	1	49	12.51	12.70	12.60	
10	16QAM	25	0	11.70	11.93	11.77	13.2
10	16QAM	25	12	11.47	11.74	11.57	
10	16QAM	25	25	11.31	11.58	11.34	
10	16QAM	50	0	11.17	11.39	11.16	
10	64QAM	1	0	11.64	11.91	11.60	13.2
10	64QAM	1	25	11.46	11.94	11.54	
10	64QAM	1	49	11.42	11.93	11.56	
10	64QAM	25	0	10.72	11.23	10.87	12.2
10	64QAM	25	12	10.69	11.17	10.84	
10	64QAM	25	25	10.65	11.18	10.80	
10	64QAM	50	0	10.64	11.11	10.77	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	13.93	13.94	13.94	15.2
5	QPSK	1	12	13.79	13.83	13.83	
5	QPSK	1	24	13.61	13.66	13.69	
5	QPSK	12	0	12.85	12.87	12.92	14.2
5	QPSK	12	7	12.63	12.84	12.75	
5	QPSK	12	13	12.51	12.62	12.56	
5	QPSK	25	0	12.35	12.48	12.39	
5	16QAM	1	0	12.79	12.97	12.86	14.2
5	16QAM	1	12	12.68	12.77	12.75	
5	16QAM	1	24	12.45	12.63	12.54	
5	16QAM	12	0	11.61	11.85	11.72	13.2
5	16QAM	12	7	11.37	11.69	11.54	
5	16QAM	12	13	11.23	11.52	11.29	
5	16QAM	25	0	11.13	11.30	11.03	
5	64QAM	1	0	11.59	11.87	11.52	13.2
5	64QAM	1	12	11.37	11.88	11.49	
5	64QAM	1	24	11.34	11.85	11.46	
5	64QAM	12	0	10.68	11.22	10.79	12.2
5	64QAM	12	7	10.61	11.11	10.75	
5	64QAM	12	13	10.58	11.12	10.77	
5	64QAM	25	0	10.53	11.02	10.69	

Band 38(only on channel required) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	20.72	20.82	20.80	21.8
20	QPSK	1	49	20.51	20.67	20.62	
20	QPSK	1	99	20.39	20.51	20.44	
20	QPSK	50	0	19.65	19.77	19.66	20.8
20	QPSK	50	24	19.48	19.55	19.45	
20	QPSK	50	50	19.33	19.41	19.33	
20	QPSK	100	0	19.18	19.24	19.12	
20	16QAM	1	0	19.60	19.72	19.58	20.8
20	16QAM	1	49	19.47	19.50	19.45	
20	16QAM	1	99	19.27	19.39	19.25	
20	16QAM	50	0	18.43	18.59	18.39	19.8
20	16QAM	50	24	18.25	18.47	18.18	
20	16QAM	50	50	18.14	18.30	18.04	
20	16QAM	100	0	17.97	18.15	17.88	
20	64QAM	1	0	17.51	17.69	17.32	19.3
20	64QAM	1	49	17.42	17.64	17.24	
20	64QAM	1	99	17.41	17.60	17.21	
20	64QAM	50	0	16.77	16.94	16.53	18.3
20	64QAM	50	24	16.73	16.88	16.51	
20	64QAM	50	50	16.71	16.81	16.45	
20	64QAM	100	0	16.69	16.77	16.43	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.67	20.74	20.75	21.8
15	QPSK	1	37	20.47	20.62	20.58	
15	QPSK	1	74	20.36	20.44	20.40	
15	QPSK	36	0	19.54	19.74	19.58	20.8
15	QPSK	36	20	19.41	19.51	19.37	
15	QPSK	36	39	19.27	19.34	19.28	
15	QPSK	75	0	19.14	19.15	19.07	
15	16QAM	1	0	19.53	19.67	19.52	20.8
15	16QAM	1	37	19.44	19.44	19.42	
15	16QAM	1	74	19.23	19.36	19.16	
15	16QAM	36	0	18.39	18.52	18.31	19.8
15	16QAM	36	20	18.18	18.40	18.13	
15	16QAM	36	39	18.08	18.26	17.96	
15	16QAM	75	0	17.91	18.07	17.82	
15	64QAM	1	0	17.47	17.65	17.26	19.3
15	64QAM	1	37	17.34	17.56	17.18	
15	64QAM	1	74	17.32	17.54	17.14	
15	64QAM	36	0	16.73	16.89	16.45	18.3
15	64QAM	36	20	16.69	16.85	16.42	
15	64QAM	36	39	16.65	16.74	16.39	
15	64QAM	75	0	16.60	16.71	16.40	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	20.58	20.69	20.66	21.8
10	QPSK	1	25	20.38	20.52	20.48	
10	QPSK	1	49	20.28	20.38	20.32	
10	QPSK	25	0	19.46	19.68	19.54	20.8
10	QPSK	25	12	19.37	19.42	19.31	
10	QPSK	25	25	19.19	19.33	19.17	
10	QPSK	50	0	19.06	19.09	19.02	
10	16QAM	1	0	19.49	19.60	19.49	20.8
10	16QAM	1	25	19.35	19.38	19.35	
10	16QAM	1	49	19.10	19.30	19.13	
10	16QAM	25	0	18.34	18.48	18.31	19.8
10	16QAM	25	12	18.14	18.34	18.07	
10	16QAM	25	25	18.06	18.17	17.93	
10	16QAM	50	0	17.85	18.03	17.72	
10	64QAM	1	0	17.35	17.59	17.22	19.8
10	64QAM	1	25	17.29	17.50	17.16	
10	64QAM	1	49	17.31	17.49	17.10	
10	64QAM	25	0	16.62	16.78	16.44	18.8
10	64QAM	25	12	16.57	16.77	16.41	
10	64QAM	25	25	16.59	16.72	16.35	
10	64QAM	50	0	16.58	16.70	16.30	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	20.59	20.71	20.68	21.8
5	QPSK	1	12	20.37	20.51	20.52	
5	QPSK	1	24	20.31	20.35	20.31	
5	QPSK	12	0	19.45	19.65	19.55	20.8
5	QPSK	12	7	19.32	19.47	19.32	
5	QPSK	12	13	19.18	19.32	19.22	
5	QPSK	25	0	19.05	19.10	19.01	
5	16QAM	1	0	19.48	19.59	19.45	20.8
5	16QAM	1	12	19.35	19.39	19.31	
5	16QAM	1	24	19.11	19.26	19.14	
5	16QAM	12	0	18.36	18.49	18.31	19.8
5	16QAM	12	7	18.15	18.33	18.09	
5	16QAM	12	13	18.03	18.19	17.94	
5	16QAM	25	0	17.85	18.07	17.77	
5	64QAM	1	0	17.38	17.59	17.24	19.3
5	64QAM	1	12	17.29	17.50	17.16	
5	64QAM	1	24	17.33	17.47	17.06	
5	64QAM	12	0	16.63	16.81	16.43	18.3
5	64QAM	12	7	16.57	16.80	16.38	
5	64QAM	12	13	16.62	16.70	16.33	
5	64QAM	25	0	16.53	16.67	16.28	

Band 41 (2535~2655MHz) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				40140	40390	40640	40890	41140	
Frequency (MHz)				2545	2570	2595	2620	2645	
20	QPSK	1	0	20.90	20.85	20.92	20.80	20.79	21.8
20	QPSK	1	49	20.73	20.71	20.81	20.63	20.59	
20	QPSK	1	99	20.51	20.55	20.67	20.47	20.48	
20	QPSK	50	0	19.74	19.79	19.86	19.77	19.77	20.8
20	QPSK	50	24	19.64	19.59	19.71	19.59	19.58	
20	QPSK	50	50	19.52	19.44	19.59	19.47	19.39	
20	QPSK	100	0	19.34	19.25	19.46	19.31	19.22	
20	16QAM	1	0	19.81	19.66	19.92	19.71	19.62	20.8
20	16QAM	1	49	19.65	19.56	19.74	19.57	19.51	
20	16QAM	1	99	19.50	19.38	19.55	19.36	19.30	
20	16QAM	50	0	18.73	18.57	18.74	18.52	18.47	19.8
20	16QAM	50	24	18.52	18.43	18.60	18.39	18.31	
20	16QAM	50	50	18.40	18.30	18.48	18.18	18.11	
20	16QAM	100	0	18.23	18.12	18.29	17.99	18.00	
20	64QAM	1	0	17.41	17.37	17.45	17.22	17.18	19.3
20	64QAM	1	49	17.38	17.30	17.44	17.11	17.17	
20	64QAM	1	99	17.34	17.22	17.37	17.04	17.15	
20	64QAM	50	0	16.64	16.57	16.73	16.35	16.51	18.3
20	64QAM	50	24	16.60	16.53	16.69	16.30	16.50	
20	64QAM	50	50	16.56	16.48	16.62	16.27	16.48	
20	64QAM	100	0	16.49	16.42	16.60	16.23	16.45	
Channel				40115	40378	40640	40903	41165	Tune-up limit (dBm)
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5	
15	QPSK	1	0	20.87	20.79	20.89	20.79	20.73	21.8
15	QPSK	1	37	20.67	20.68	20.76	20.62	20.61	
15	QPSK	1	74	20.43	20.48	20.64	20.40	20.39	
15	QPSK	36	0	19.66	19.73	19.78	19.60	19.68	20.8
15	QPSK	36	20	19.57	19.53	19.62	19.52	19.45	
15	QPSK	36	39	19.45	19.41	19.54	19.41	19.33	
15	QPSK	75	0	19.31	19.19	19.40	19.24	19.15	
15	16QAM	1	0	19.74	19.59	19.86	19.66	19.50	20.8
15	16QAM	1	37	19.61	19.52	19.69	19.57	19.49	
15	16QAM	1	74	19.45	19.29	19.47	19.38	19.20	
15	16QAM	36	0	18.68	18.52	18.69	18.62	18.47	19.8
15	16QAM	36	20	18.47	18.37	18.55	18.43	18.29	
15	16QAM	36	39	18.31	18.23	18.39	18.23	18.19	
15	16QAM	75	0	18.19	18.08	18.26	18.10	18.00	
15	64QAM	1	0	17.32	17.33	17.41	17.29	17.26	19.3
15	64QAM	1	37	17.32	17.27	17.41	17.29	17.19	
15	64QAM	1	74	17.25	17.16	17.33	17.16	17.09	
15	64QAM	36	0	16.61	16.49	16.65	16.57	16.41	18.3
15	64QAM	36	20	16.53	16.47	16.63	16.49	16.43	
15	64QAM	36	39	16.50	16.41	16.57	16.41	16.36	
15	64QAM	75	0	16.42	16.33	16.51	16.33	16.27	
Channel				40090	40365	40640	40915	41190	Tune-up limit (dBm)
Frequency (MHz)				2540	2567.5	2595	2622.5	2650	
10	QPSK	1	0	20.82	20.72	20.79	20.74	20.80	21.8
10	QPSK	1	25	20.59	20.61	20.64	20.60	20.69	
10	QPSK	1	49	20.40	20.40	20.38	20.42	20.55	
10	QPSK	25	0	19.61	19.69	19.60	19.65	19.70	20.8
10	QPSK	25	12	19.51	19.44	19.52	19.50	19.57	
10	QPSK	25	25	19.40	19.32	19.42	19.33	19.50	
10	QPSK	50	0	19.26	19.10	19.25	19.16	19.35	
10	16QAM	1	0	19.68	19.56	19.65	19.51	19.78	20.8
10	16QAM	1	25	19.54	19.46	19.55	19.48	19.60	
10	16QAM	1	49	19.42	19.24	19.41	19.23	19.40	
10	16QAM	25	0	18.64	18.44	18.64	18.44	18.66	19.8
10	16QAM	25	12	18.40	18.29	18.43	18.28	18.51	
10	16QAM	25	25	18.23	18.16	18.27	18.18	18.31	
10	16QAM	50	0	18.13	18.02	18.15	18.03	18.22	
10	64QAM	1	0	17.27	17.25	17.25	17.27	17.35	19.3
10	64QAM	1	25	17.23	17.20	17.28	17.19	17.35	
10	64QAM	1	49	17.20	17.11	17.21	17.08	17.27	
10	64QAM	25	0	16.56	16.44	16.55	16.46	16.57	18.3
10	64QAM	25	12	16.49	16.43	16.48	16.41	16.54	
10	64QAM	25	25	16.46	16.32	16.44	16.33	16.51	
10	64QAM	50	0	16.36	16.28	16.34	16.26	16.42	
Channel				40065	40353	40640	40928	41215	Tune-up limit (dBm)
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5	
5	QPSK	1	0	20.80	20.74	20.81	20.74	20.84	21.8
5	QPSK	1	12	20.60	20.63	20.62	20.61	20.68	
5	QPSK	1	24	20.38	20.44	20.35	20.40	20.58	
5	QPSK	12	0	19.58	19.67	19.58	19.64	19.70	20.8
5	QPSK	12	7	19.54	19.45	19.49	19.45	19.54	
5	QPSK	12	13	19.37	19.37	19.39	19.37	19.47	
5	QPSK	25	0	19.28	19.10	19.28	19.12	19.33	
5	16QAM	1	0	19.68	19.54	19.69	19.52	19.79	20.8
5	16QAM	1	12	19.52	19.48	19.53	19.46	19.65	
5	16QAM	1	24	19.41	19.23	19.38	19.24	19.41	
5	16QAM	12	0	18.61	18.45	18.61	18.49	18.65	19.8
5	16QAM	12	7	18.40	18.30	18.39	18.28	18.48	
5	16QAM	12	13	18.26	18.14	18.23	18.15	18.36	
5	16QAM	25	0	18.10	18.03	18.11	18.04	18.17	
5	64QAM	1	0	17.27	17.30	17.29	17.27	17.36	19.3
5	64QAM	1	12	17.24	17.22	17.26	17.18	17.35	
5	64QAM	1	24	17.21	17.13	17.17	17.08	17.25	
5	64QAM	12	0	16.53	16.45	16.55	16.45	16.56	18.3
5	64QAM	12	7	16.45	16.39	16.48	16.42	16.55	
5	64QAM	12	13	16.42	16.37	16.46	16.33	16.51	
5	64QAM	25	0	16.34	16.25	16.34	16.25	16.43	

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	20.96	20.97	20.91	21.5
20	QPSK	1	49	20.83	20.80	20.76	
20	QPSK	1	99	20.69	20.63	20.59	
20	QPSK	50	0	19.92	19.94	19.86	20.5
20	QPSK	50	24	19.78	19.69	19.71	
20	QPSK	50	50	19.59	19.54	19.60	
20	QPSK	100	0	19.41	19.46	19.43	
20	16QAM	1	0	19.82	19.85	19.87	20.5
20	16QAM	1	49	19.69	19.70	19.70	
20	16QAM	1	99	19.57	19.49	19.49	
20	16QAM	50	0	18.71	18.68	18.74	19.5
20	16QAM	50	24	18.58	18.53	18.57	
20	16QAM	50	50	18.44	18.43	18.46	
20	16QAM	100	0	18.31	18.26	18.35	
20	64QAM	1	0	17.81	17.79	17.81	19
20	64QAM	1	49	17.71	17.74	17.77	
20	64QAM	1	99	17.70	17.74	17.74	
20	64QAM	50	0	17.01	17.06	17.09	18
20	64QAM	50	24	16.94	17.05	17.06	
20	64QAM	50	50	16.89	17.04	16.98	
20	64QAM	100	0	16.88	17.04	16.92	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.93	20.91	20.93	21.5
15	QPSK	1	37	20.78	20.72	20.72	
15	QPSK	1	74	20.64	20.55	20.55	
15	QPSK	36	0	19.88	19.76	19.77	20.5
15	QPSK	36	20	19.71	19.65	19.66	
15	QPSK	36	39	19.54	19.47	19.55	
15	QPSK	75	0	19.34	19.37	19.36	
15	16QAM	1	0	19.78	19.81	19.81	20.5
15	16QAM	1	37	19.64	19.66	19.65	
15	16QAM	1	74	19.53	19.40	19.40	
15	16QAM	36	0	18.63	18.65	18.69	19.5
15	16QAM	36	20	18.53	18.48	18.52	
15	16QAM	36	39	18.40	18.38	18.40	
15	16QAM	75	0	18.24	18.21	18.30	
15	64QAM	1	0	17.75	17.74	17.73	19
15	64QAM	1	37	17.65	17.70	17.70	
15	64QAM	1	74	17.64	17.66	17.69	
15	64QAM	36	0	16.96	17.03	17.05	18
15	64QAM	36	20	16.91	16.96	17.02	
15	64QAM	36	39	16.85	17.00	16.93	
15	64QAM	75	0	16.80	16.96	16.86	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.86	20.90	20.86	21.5
10	QPSK	1	25	20.75	20.70	20.65	
10	QPSK	1	49	20.54	20.50	20.46	
10	QPSK	25	0	19.80	19.69	19.73	20.5
10	QPSK	25	12	19.63	19.63	19.61	
10	QPSK	25	25	19.48	19.42	19.51	
10	QPSK	50	0	19.26	19.29	19.34	
10	16QAM	1	0	19.69	19.70	19.76	20.5
10	16QAM	1	25	19.58	19.60	19.54	
10	16QAM	1	49	19.42	19.40	19.37	
10	16QAM	25	0	18.58	18.55	18.63	19.5
10	16QAM	25	12	18.49	18.45	18.45	
10	16QAM	25	25	18.34	18.26	18.34	
10	16QAM	50	0	18.17	18.12	18.18	
10	64QAM	1	0	17.69	17.68	17.68	19
10	64QAM	1	25	17.60	17.61	17.68	
10	64QAM	1	49	17.61	17.62	17.59	
10	64QAM	25	0	16.85	16.95	16.99	18
10	64QAM	25	12	16.85	16.91	16.94	
10	64QAM	25	25	16.81	16.93	16.83	
10	64QAM	50	0	16.80	16.94	16.79	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.88	20.89	20.88	21.5
5	QPSK	1	12	20.75	20.65	20.67	
5	QPSK	1	24	20.53	20.52	20.48	
5	QPSK	12	0	19.81	19.69	19.74	20.5
5	QPSK	12	7	19.64	19.59	19.60	
5	QPSK	12	13	19.45	19.40	19.50	
5	QPSK	25	0	19.28	19.32	19.31	
5	16QAM	1	0	19.67	19.68	19.72	20.5
5	16QAM	1	12	19.60	19.59	19.56	
5	16QAM	1	24	19.41	19.39	19.38	
5	16QAM	12	0	18.62	18.58	18.64	19.5
5	16QAM	12	7	18.49	18.40	18.43	
5	16QAM	12	13	18.35	18.30	18.33	
5	16QAM	25	0	18.21	18.10	18.24	
5	64QAM	1	0	17.65	17.69	17.73	19
5	64QAM	1	12	17.60	17.59	17.70	
5	64QAM	1	24	17.61	17.61	17.61	
5	64QAM	12	0	16.88	16.97	16.96	18
5	64QAM	12	7	16.85	16.88	16.95	
5	64QAM	12	13	16.79	16.96	16.83	
5	64QAM	25	0	16.79	16.92	16.76	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.87	20.86	20.89	21.5
3	QPSK	1	8	20.70	20.67	20.67	
3	QPSK	1	14	20.56	20.53	20.46	
3	QPSK	8	0	19.78	19.71	19.73	20.5
3	QPSK	8	4	19.64	19.62	19.63	

3	QPSK	8	7	19.45	19.43	19.49	
3	QPSK	15	0	19.27	19.33	19.33	
3	16QAM	1	0	19.67	19.73	19.72	20.5
3	16QAM	1	8	19.60	19.55	19.57	
3	16QAM	1	14	19.42	19.39	19.36	
3	16QAM	8	0	18.58	18.58	18.64	19.5
3	16QAM	8	4	18.50	18.43	18.44	
3	16QAM	8	7	18.34	18.30	18.35	
3	16QAM	15	0	18.23	18.11	18.20	
3	64QAM	1	0	17.69	17.69	17.69	19
3	64QAM	1	8	17.61	17.62	17.68	
3	64QAM	1	14	17.63	17.59	17.60	
3	64QAM	8	0	16.87	16.95	16.98	18
3	64QAM	8	4	16.83	16.91	16.93	
3	64QAM	8	7	16.82	16.97	16.83	
3	64QAM	15	0	16.81	16.91	16.78	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.88	20.86	20.89	21.5
1.4	QPSK	1	3	20.74	20.65	20.65	
1.4	QPSK	1	5	20.53	20.53	20.49	
1.4	QPSK	3	0	19.78	19.70	19.75	
1.4	QPSK	3	1	19.64	19.62	19.58	
1.4	QPSK	3	3	19.50	19.41	19.47	
1.4	QPSK	6	0	19.25	19.32	19.34	20.5
1.4	16QAM	1	0	19.69	19.72	19.75	20.5
1.4	16QAM	1	3	19.56	19.56	19.55	
1.4	16QAM	1	5	19.41	19.39	19.39	
1.4	16QAM	3	0	18.61	18.53	18.64	
1.4	16QAM	3	1	18.48	18.41	18.40	
1.4	16QAM	3	3	18.35	18.28	18.35	
1.4	16QAM	6	0	18.22	18.09	18.20	19.5
1.4	64QAM	1	0	17.65	17.68	17.70	19
1.4	64QAM	1	3	17.58	17.61	17.66	
1.4	64QAM	1	5	17.63	17.60	17.60	
1.4	64QAM	3	0	16.85	16.96	17.00	
1.4	64QAM	3	1	16.81	16.91	16.93	
1.4	64QAM	3	3	16.80	16.95	16.85	
1.4	64QAM	6	0	16.79	16.92	16.79	18

Reduced Power Level 4

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	14.40	16.00	13.00	88.61
		CH 44	5220	14.40	16.00	13.00	
		CH 48	5240	14.48	16.00	13.00	
	802.11n-HT20 MCS0	CH 36	5180	14.69	16.00	13.00	86.76
		CH 44	5220	14.78	16.00	13.00	
		CH 48	5240	14.51	16.00	13.00	
	802.11n-HT40 MCS0	CH 38	5190	13.68	15.00	13.00	76.32
		CH 46	5230	13.52	15.00	13.00	
	802.11ac-VHT20 MCS0	CH 36	5180	14.30	15.00	13.00	86.76
		CH 44	5220	14.25	15.00	13.00	
		CH 48	5240	13.98	15.00	13.00	
	802.11ac-VHT40 MCS0	CH 38	5190	14.12	15.00	13.00	78.95
		CH 46	5230	13.74	15.00	13.00	
	802.11ac-VHT80 MCS0	CH 42	5210	12.75	14.00	13.00	65.22

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	15.34	17.00	13.00	89.74
		CH 60	5300	15.29	17.00	13.00	
		CH 64	5320	15.02	17.00	13.00	
	802.11n-HT20 MCS0	CH 52	5260	15.77	17.00	13.00	86.76
		CH 60	5300	15.67	17.00	13.00	
		CH 64	5320	15.36	17.00	13.00	
	802.11n-HT40 MCS0	CH 54	5270	14.08	16.00	13.00	78.95
		CH 62	5310	14.19	16.00	13.00	
	802.11ac-VHT20 MCS0	CH 52	5260	15.17	16.00	13.00	86.96
		CH 60	5300	15.05	16.00	13.00	
		CH 64	5320	14.68	16.00	13.00	
	802.11ac-VHT40 MCS0	CH 54	5270	14.42	16.00	13.00	76.92
		CH 62	5310	14.49	16.00	13.00	
	802.11ac-VHT80 MCS0	CH 58	5290	13.39	15.00	13.00	65.22

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	15.34	16.50	12.00	89.74
		CH 116	5580	15.15	16.50	12.00	
		CH 140	5700	14.73	16.00	12.00	
	802.11n-HT20 MCS0	CH 100	5500	14.74	16.00	12.00	86.76
		CH 116	5580	14.79	16.00	12.00	
		CH 140	5700	14.71	16.00	12.00	
	802.11n-HT40 MCS0	CH 102	5510	13.62	15.00	12.00	78.38
		CH 110	5550	13.86	15.00	12.00	
		CH 134	5670	13.75	15.00	12.00	
	802.11ac-VHT20 MCS0	CH 100	5500	14.41	15.00	12.00	86.76
		CH 116	5580	14.54	15.00	12.00	
		CH 140	5700	14.34	15.00	12.00	
	802.11ac-VHT40 MCS0	CH 102	5510	13.82	15.00	12.00	78.95
		CH 110	5550	14.70	16.00	12.00	
		CH 134	5670	13.92	15.00	12.00	
	802.11ac-VHT80 MCS0	CH 106	5530	12.83	14.00	12.00	65.22
		CH 122	5610	12.66	14.00	12.00	

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	15.88	17.00	13.00	89.74
		CH 157	5785	15.70	17.00	13.00	
		CH 165	5825	15.76	17.00	13.00	
	802.11n-HT20 MCS0	CH 149	5745	15.70	17.00	13.00	86.76
		CH 157	5785	15.48	17.00	13.00	
		CH 165	5825	15.61	17.00	13.00	
	802.11n-HT40 MCS0	CH 151	5755	14.83	16.00	13.00	78.95
		CH 159	5795	14.88	16.00	13.00	
	802.11ac-VHT20 MCS0	CH 149	5745	15.58	17.00	13.00	86.96
		CH 157	5785	15.23	17.00	13.00	
		CH 165	5825	15.41	17.00	13.00	
	802.11ac-VHT40 MCS0	CH 151	5755	15.57	17.00	13.00	76.92
		CH 159	5795	15.72	17.00	13.00	
	802.11ac-VHT80 MCS0	CH 155	5775	13.59	15.00	13.00	65.22