



REPORT No.: SZ23030238S01

Annex B Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.

**Conducted Power**

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GPRS 1 Tx slot	30.65	30.72	30.61	31.50	21.65	21.72	21.61	22.50	0.11
GPRS 2 Tx slots	27.69	27.74	27.66	28.50	21.69	21.74	21.66	22.50	0.08
GPRS 3 Tx slots	25.58	25.60	25.53	26.50	21.32	21.34	21.27	22.24	0.07
GPRS 4 Tx slots	24.13	24.20	24.09	25.00	21.13	21.20	21.09	22.00	0.11
EDGE 1 Tx slot	25.04	25.12	25.07	26.00	16.04	16.12	16.07	17.00	0.08
EDGE 2 Tx slots	22.30	22.36	22.31	23.00	16.30	16.36	16.31	17.00	0.06
EDGE 3 Tx slots	20.19	20.32	20.25	21.00	15.93	16.06	15.99	16.74	0.13
EDGE 4 Tx slots	18.67	18.79	18.72	19.50	15.67	15.79	15.72	16.50	0.12
Mode		Max.	30.72			Max.	21.74		
Attenuator	Cable Loss : 0.8								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GPRS 1 Tx slot	27.70	27.85	27.68	28.50	18.70	18.85	18.68	19.50	0.17
GPRS 2 Tx slots	24.73	24.90	24.77	25.50	18.73	18.90	18.77	19.50	0.17
GPRS 3 Tx slots	22.65	22.83	22.69	23.50	18.39	18.57	18.43	19.24	0.18
GPRS 4 Tx slots	21.26	21.32	21.24	22.00	18.26	18.32	18.24	19.00	0.08
EDGE 1 Tx slot	23.19	23.26	23.15	24.00	14.19	14.26	14.15	15.00	0.11
EDGE 2 Tx slots	20.64	20.71	20.60	21.50	14.64	14.71	14.60	15.50	0.11
EDGE 3 Tx slots	18.62	18.68	18.56	19.50	14.36	14.42	14.30	15.24	0.12
EDGE 4 Tx slots	17.07	17.14	17.05	18.00	14.07	14.14	14.05	15.00	0.09
Mode		Max.	27.85			Max.	18.90		
Attenuator	Cable Loss : 0.8								

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
TX Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Rx Channel		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
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	21.61	22.55	21.58	23.00	22.85	22.91	22.88	23.50	21.56	21.80	21.55	22.50
3GPP Rel 6	HSDPA Subtest-1	20.61	21.89	20.58	22.50	20.80	21.28	20.44	22.00	20.27	20.35	20.36	21.00
3GPP Rel 6	HSDPA Subtest-2	20.70	21.81	20.58	22.50	20.94	21.38	20.53	22.00	20.42	20.48	20.48	21.00
3GPP Rel 6	HSDPA Subtest-3	20.24	21.36	20.23	22.00	20.49	20.92	20.08	21.50	19.92	19.96	19.99	20.50
3GPP Rel 6	HSDPA Subtest-4	20.26	21.38	20.25	22.00	20.50	20.94	20.10	21.50	19.93	20.00	20.02	20.50
3GPP Rel 6	HSUPA Subtest-1	20.85	21.79	20.70	22.50	20.60	21.19	20.54	22.00	20.39	20.39	20.27	21.00
3GPP Rel 6	HSUPA Subtest-2	20.08	21.37	20.65	22.00	20.08	20.65	19.98	21.50	19.69	19.73	19.61	20.50
3GPP Rel 6	HSUPA Subtest-3	20.80	21.75	20.75	22.50	20.64	21.25	20.55	22.00	20.43	20.46	20.35	21.00
3GPP Rel 6	HSUPA Subtest-4	20.83	21.85	20.64	22.50	20.55	21.08	20.41	22.00	20.20	20.27	20.15	21.00
3GPP Rel 6	HSUPA Subtest-5	20.90	21.76	20.70	22.50	20.60	21.20	20.48	22.00	20.35	20.42	20.30	21.00
Attenuator			Cable Loss	0.6			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	22.55			Max.	22.91			Max.	21.80	



Band 2 (1900MHz Band) (dBm)							
Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.57	21.65	21.55	
20	QPSK	1	49	21.50	21.58	21.49	22.5
20	QPSK	1	99	21.54	21.55	21.52	
20	QPSK	50	0	20.73	20.88	20.79	
20	QPSK	50	24	20.62	20.76	20.71	21.5
20	QPSK	50	50	20.55	20.60	20.52	
20	QPSK	100	0	20.59	20.64	20.57	
20	16QAM	1	0	20.67	20.72	20.68	21.5
20	16QAM	1	49	20.53	20.55	20.60	
20	16QAM	1	99	20.62	20.61	20.57	
20	16QAM	50	0	19.87	19.91	19.85	20.5
20	16QAM	50	24	19.82	19.80	19.76	
20	16QAM	50	50	19.73	19.77	19.80	
20	16QAM	100	0	19.81	19.86	19.78	21.5
20	64QAM	1	0	20.71	20.83	20.75	
20	64QAM	1	49	20.63	20.69	20.70	
20	64QAM	1	99	20.74	20.77	20.72	20.5
20	64QAM	50	0	19.76	19.82	19.73	
20	64QAM	50	24	19.69	19.77	19.68	
20	64QAM	50	50	19.65	19.73	19.64	
20	64QAM	100	0	19.71	19.76	19.72	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.59	21.63	21.58	
15	QPSK	1	37	21.58	21.57	21.40	22.5
15	QPSK	1	74	21.53	21.54	21.48	
15	QPSK	36	0	20.82	20.73	20.77	
15	QPSK	36	20	20.63	20.65	20.82	21.5
15	QPSK	36	39	20.51	20.48	20.52	
15	QPSK	75	0	20.69	20.72	20.59	
15	16QAM	1	0	20.64	20.85	20.69	21.5
15	16QAM	1	37	20.51	20.56	20.72	
15	16QAM	1	74	20.77	20.72	20.59	
15	16QAM	36	0	19.93	19.83	19.87	20.5
15	16QAM	36	20	19.91	19.69	19.77	
15	16QAM	36	39	19.62	19.89	19.94	
15	16QAM	75	0	19.79	19.72	19.68	21.5
15	64QAM	1	0	20.58	20.74	20.84	
15	64QAM	1	37	20.74	20.73	20.85	
15	64QAM	1	74	20.64	20.74	20.81	20.5
15	64QAM	36	0	19.66	19.79	19.87	
15	64QAM	36	20	19.64	19.71	19.64	
15	64QAM	36	39	19.53	19.64	19.60	
15	64QAM	75	0	19.58	19.77	19.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.53	21.61	21.50	
10	QPSK	1	25	21.58	21.53	21.46	22.5
10	QPSK	1	49	21.45	21.42	21.46	
10	QPSK	25	0	20.82	20.93	20.74	
10	QPSK	25	12	20.62	20.67	20.70	21.5
10	QPSK	25	25	20.61	20.60	20.58	
10	QPSK	50	0	20.63	20.50	20.71	
10	16QAM	1	0	20.59	20.72	20.73	21.5
10	16QAM	1	25	20.44	20.61	20.61	
10	16QAM	1	49	20.55	20.54	20.44	
10	16QAM	25	0	19.81	19.91	19.99	20.5
10	16QAM	25	12	19.92	19.66	19.84	
10	16QAM	25	25	19.61	19.81	19.87	
10	16QAM	50	0	19.66	19.70	19.76	21.5
10	64QAM	1	0	20.65	20.82	20.79	
10	64QAM	1	25	20.73	20.68	20.84	
10	64QAM	1	49	20.78	20.86	20.72	20.5
10	64QAM	25	0	19.87	19.84	19.79	
10	64QAM	25	12	19.75	19.70	19.72	
10	64QAM	25	25	19.59	19.76	19.59	
10	64QAM	50	0	19.61	19.65	19.73	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.59	21.60	21.56	
5	QPSK	1	12	21.49	21.45	21.55	22.5
5	QPSK	1	24	21.54	21.57	21.45	
5	QPSK	12	0	20.70	20.87	20.72	
5	QPSK	12	7	20.62	20.85	20.84	21.5
5	QPSK	12	13	20.54	20.59	20.53	
5	QPSK	25	0	20.66	20.69	20.58	
5	16QAM	1	0	20.69	20.62	20.77	21.5
5	16QAM	1	12	20.41	20.46	20.56	
5	16QAM	1	24	20.76	20.74	20.61	
5	16QAM	12	0	20.01	19.94	19.91	20.5
5	16QAM	12	7	19.86	19.86	19.81	
5	16QAM	12	13	19.84	19.89	19.92	
5	16QAM	25	0	19.87	19.80	19.69	21.5
5	64QAM	1	0	20.80	20.81	20.77	
5	64QAM	1	12	20.52	20.74	20.58	
5	64QAM	1	24	20.62	20.89	20.87	20.5
5	64QAM	12	0	19.81	19.88	19.71	
5	64QAM	12	7	19.65	19.76	19.77	
5	64QAM	12	13	19.69	19.61	19.51	
5	64QAM	25	0	19.59	19.62	19.71	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.46	21.62	21.59	
3	QPSK	1	8	21.55	21.57	21.53	22.5
3	QPSK	1	14	21.43	21.56	21.53	
3	QPSK	8	0	20.82	20.88	20.70	
3	QPSK	8	4	20.55	20.87	20.72	21.5
3	QPSK	8	7	20.61	20.51	20.62	

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	20.63	
20	QPSK	1	49	20.58	20.70	20.59	21.5
20	QPSK	1	99	20.71	20.65	20.61	
20	QPSK	50	0	19.82	19.87	19.76	
20	QPSK	50	24	19.70	19.81	19.72	20.5
20	QPSK	50	50	19.69	19.56	19.53	
20	QPSK	100	0	19.60	19.79	19.71	
20	16QAM	1	0	19.75	19.93	19.64	20.5
20	16QAM	1	49	19.61	19.59	19.70	
20	16QAM	1	99	19.75	19.78	19.65	
20	16QAM	50	0	18.95	18.94	18.95	19.5
20	16QAM	50	24	18.87	18.73	18.88	
20	16QAM	50	50	18.69	18.99	18.84	
20	16QAM	100	0	18.81	18.92	18.76	20.5
20	64QAM	1	0	19.73	19.80	19.86	
20	64QAM	1	49	19.60	19.71	19.83	
20	64QAM	1	99	19.69	19.73	19.84	19.5
20	64QAM	50	0	18.92	18.86	18.75	
20	64QAM	50	24	18.75	18.91	18.87	
20	64QAM	50	50	18.69	18.92	18.85	
20	64QAM	100	0	18.90	18.87	18.85	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.67	20.70	20.65	
15	QPSK	1	37	20.55	20.64	20.69	21.5
15	QPSK	1	74	20.65	20.69	20.59	
15	QPSK	36	0	19.80	19.86	19.77	
15	QPSK	36	20	19.62	19.82	19.86	20.5
15	QPSK	36	39	19.56	19.60	19.58	
15	QPSK	75	0	19.63	19.82	19.65	
15	16QAM	1	0	19.64	19.83	19.78	20.5
15	16QAM	1	37	19.67	19.63	19.73	
15	16QAM	1	74	19.81	19.76	19.59	
15	16QAM	36	0	18.84	18.76	18.82	19.5
15	16QAM	36	20	18.76	18.91	18.87	
15	16QAM	36	39	18.91	18.82	18.96	
15	16QAM	75	0	18.95	18.85	18.83	20.5
15	64QAM	1	0	19.75	19.95	19.95	
15	64QAM	1	37	19.70	19.81	19.70	
15	64QAM	1	74	19.95	19.89	19.75	19.5
15	64QAM	36	0	18.86	18.94	18.92	
15	64QAM	36	20	18.78	18.97	18.66	
15	64QAM	36	39	18.75	18.95	18.89	
15	64QAM	75	0	18.70	18.74	18.83	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.52	20.68	20.57	
10	QPSK	1	25	20.66	20.61	20.58	21.5
10	QPSK	1	49	20.62	20.66	20.63	
10	QPSK	25	0	19.80	19.84	19.82	
10	QPSK	25	12	19.57	19.72	19.72	20.5
10	QPSK	25	25	19.70	19.80	19.74	
10	QPSK	50	0	19.65	19.61	19.60	
10	16QAM	1	0	19.92	19.80	19.90	20.5



3	QPSK	15	0	20.50	20.65	20.67	21.5
3	16QAM	1	0	20.73	20.86	20.62	
3	16QAM	1	8	20.67	20.64	20.69	
3	16QAM	1	14	20.52	20.60	20.48	20.5
3	16QAM	8	0	19.87	19.97	19.92	
3	16QAM	8	4	19.92	19.83	19.65	
3	16QAM	8	7	19.87	19.65	19.93	21.5
3	16QAM	15	0	19.93	19.82	19.76	
3	64QAM	1	0	20.63	20.74	20.69	
3	64QAM	1	8	20.71	20.57	20.78	20.5
3	64QAM	1	14	20.69	20.80	20.85	
3	64QAM	8	0	19.78	19.79	19.85	
3	64QAM	8	4	19.56	19.75	19.81	21.5
3	64QAM	8	7	19.64	19.87	19.75	
3	64QAM	15	0	19.83	19.74	19.80	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.56	21.61	21.53	22.5
1.4	QPSK	1	3	21.54	21.53	21.52	
1.4	QPSK	1	5	21.51	21.41	21.44	
1.4	QPSK	3	0	20.69	20.86	20.64	
1.4	QPSK	3	1	20.55	20.89	20.77	
1.4	QPSK	3	3	20.53	20.71	20.53	
1.4	QPSK	6	0	20.72	20.70	20.63	21.5
1.4	16QAM	1	0	20.69	20.65	20.67	21.5
1.4	16QAM	1	3	20.68	20.56	20.58	
1.4	16QAM	1	5	20.64	20.52	20.45	
1.4	16QAM	3	0	19.82	19.96	19.73	
1.4	16QAM	3	1	19.97	19.87	19.80	
1.4	16QAM	3	3	19.60	19.76	19.67	
1.4	16QAM	6	0	19.80	19.79	19.79	20.5
1.4	64QAM	1	0	20.80	20.73	20.74	21.5
1.4	64QAM	1	3	20.59	20.69	20.58	
1.4	64QAM	1	5	20.75	20.64	20.61	
1.4	64QAM	3	0	19.84	19.83	19.73	
1.4	64QAM	3	1	19.56	19.85	19.54	
1.4	64QAM	3	3	19.72	19.80	19.75	
1.4	64QAM	6	0	19.85	19.89	19.66	20.5

3	QPSK	15	0	19.76	19.70	19.69	20.5
3	16QAM	1	0	19.84	19.74	19.74	
3	16QAM	1	8	19.62	19.63	19.67	
3	16QAM	1	14	19.63	19.77	19.64	19.5
3	16QAM	8	0	18.87	18.94	18.88	
3	16QAM	8	4	18.88	18.91	18.80	
3	16QAM	8	7	18.93	18.84	18.77	20.5
3	16QAM	15	0	18.86	18.90	18.87	
3	64QAM	1	0	19.80	19.98	19.72	
3	64QAM	1	8	19.86	19.73	19.89	19.5
3	64QAM	1	14	19.94	19.89	19.85	
3	64QAM	8	0	18.90	18.95	18.77	
3	64QAM	8	4	18.76	18.78	18.88	21.5
3	64QAM	8	7	18.71	18.90	18.61	
3	64QAM	15	0	18.83	18.94	18.80	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.61	20.71	20.69	21.5
1.4	QPSK	1	3	20.63	20.60	20.60	
1.4	QPSK	1	5	20.57	20.58	20.54	
1.4	QPSK	3	0	19.78	19.86	19.80	
1.4	QPSK	3	1	19.77	19.82	19.75	
1.4	QPSK	3	3	19.52	19.56	19.57	
1.4	QPSK	6	0	19.71	19.73	19.81	20.5
1.4	16QAM	1	0	19.69	19.74	19.79	20.5
1.4	16QAM	1	3	19.64	19.60	19.57	
1.4	16QAM	1	5	19.72	19.74	19.62	
1.4	16QAM	3	0	18.95	18.84	18.87	
1.4	16QAM	3	1	18.87	18.99	18.98	
1.4	16QAM	3	3	18.80	18.96	18.76	
1.4	16QAM	6	0	18.97	18.79	18.94	19.5
1.4	64QAM	1	0	19.84	19.78	19.79	20.5
1.4	64QAM	1	3	19.59	19.76	19.73	
1.4	64QAM	1	5	19.94	19.73	19.93	
1.4	64QAM	3	0	18.90	18.86	18.77	
1.4	64QAM	3	1	18.81	18.72	18.72	
1.4	64QAM	3	3	18.75	18.87	18.85	
1.4	64QAM	6	0	18.74	18.94	18.88	19.5



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	21.10	21.26	21.25	22
10	QPSK	1	25	21.23	21.06	21.18	
10	QPSK	1	49	21.01	21.15	21.15	
10	QPSK	25	0	20.16	20.35	20.24	21
10	QPSK	25	12	20.11	20.22	20.06	
10	QPSK	25	25	19.98	20.13	19.95	
10	QPSK	50	0	19.97	20.14	19.88	21
10	16QAM	1	0	20.17	20.15	20.19	
10	16QAM	1	25	19.98	19.92	20.13	
10	16QAM	1	49	20.04	19.87	20.07	20
10	16QAM	25	0	19.17	19.38	19.10	
10	16QAM	25	12	19.20	19.25	19.16	
10	16QAM	25	25	19.05	19.11	19.21	21
10	16QAM	50	0	19.36	19.36	19.23	
10	64QAM	1	0	20.15	20.14	20.30	
10	64QAM	1	25	20.04	20.15	20.07	20
10	64QAM	1	49	20.24	20.02	20.15	
10	64QAM	25	0	19.23	19.12	19.12	
10	64QAM	25	12	19.13	19.23	19.10	20
10	64QAM	25	25	19.02	19.05	18.91	
10	64QAM	50	0	19.01	19.03	19.15	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	21.20	21.23	21.18	22
5	QPSK	1	12	21.14	21.19	21.21	
5	QPSK	1	24	20.88	21.08	21.08	
5	QPSK	12	0	20.23	20.37	20.09	21
5	QPSK	12	7	19.96	20.24	20.04	
5	QPSK	12	13	19.96	19.98	19.93	
5	QPSK	25	0	20.08	20.20	20.00	21
5	16QAM	1	0	20.21	20.28	20.16	
5	16QAM	1	12	19.95	19.91	20.07	
5	16QAM	1	24	20.12	20.16	20.21	20
5	16QAM	12	0	19.22	19.29	19.15	
5	16QAM	12	7	19.30	19.10	19.24	
5	16QAM	12	13	19.06	19.12	19.08	21
5	16QAM	25	0	19.25	19.39	19.29	
5	64QAM	1	0	20.12	20.21	20.15	
5	64QAM	1	12	20.05	20.20	19.93	20
5	64QAM	1	24	20.24	20.00	20.16	
5	64QAM	12	0	19.34	19.14	19.19	
5	64QAM	12	7	19.05	19.24	18.98	20
5	64QAM	12	13	19.02	19.09	19.06	
5	64QAM	25	0	18.92	19.03	19.02	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	21.14	21.24	21.15	22
3	QPSK	1	8	21.11	21.07	21.09	
3	QPSK	1	14	20.95	21.14	21.06	
3	QPSK	8	0	20.22	20.33	20.25	21
3	QPSK	8	4	20.17	20.24	20.09	
3	QPSK	8	7	19.98	20.03	20.05	
3	QPSK	15	0	20.06	20.04	20.03	21
3	16QAM	1	0	20.02	20.10	20.15	
3	16QAM	1	8	20.01	20.07	20.22	
3	16QAM	1	14	20.19	19.90	19.99	20
3	16QAM	8	0	19.28	19.30	19.15	
3	16QAM	8	4	19.07	19.27	19.19	
3	16QAM	8	7	19.01	19.09	19.30	21
3	16QAM	15	0	19.33	19.35	19.23	
3	64QAM	1	0	20.22	20.29	20.15	
3	64QAM	1	8	20.17	20.08	20.08	20
3	64QAM	1	14	20.26	20.02	20.05	
3	64QAM	8	0	19.18	19.12	19.05	
3	64QAM	8	4	18.99	19.35	19.03	20
3	64QAM	8	7	19.02	19.05	19.04	
3	64QAM	15	0	19.03	19.17	19.03	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	21.16	21.20	21.12	22
1.4	QPSK	1	3	21.07	21.11	21.06	
1.4	QPSK	1	5	21.01	21.02	21.14	
1.4	QPSK	3	0	20.02	20.29	20.31	21
1.4	QPSK	3	1	20.21	20.19	20.14	
1.4	QPSK	3	3	20.04	20.02	20.08	
1.4	QPSK	6	0	19.97	20.05	19.79	21
1.4	16QAM	1	0	20.17	20.00	20.16	
1.4	16QAM	1	3	19.89	20.03	20.00	
1.4	16QAM	1	5	20.15	19.98	20.15	20
1.4	16QAM	3	0	19.15	19.23	19.19	
1.4	16QAM	3	1	19.16	19.20	19.31	
1.4	16QAM	3	3	19.16	19.04	19.29	21
1.4	16QAM	6	0	19.47	19.30	19.28	
1.4	64QAM	1	0	20.20	20.07	20.22	
1.4	64QAM	1	3	20.09	20.04	20.12	21
1.4	64QAM	1	5	20.33	20.04	20.21	
1.4	64QAM	3	0	19.30	19.10	19.03	
1.4	64QAM	3	1	19.05	19.30	19.02	20
1.4	64QAM	3	3	19.04	19.17	19.06	
1.4	64QAM	6	0	19.13	19.06	19.23	

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	20.17	20.22	20.12	21
20	QPSK	1	49	19.95	20.04	20.00	
20	QPSK	1	99	20.17	20.10	20.09	
20	QPSK	50	0	19.26	19.30	19.22	20
20	QPSK	50	24	19.15	19.18	19.27	
20	QPSK	50	50	19.16	19.14	19.19	
20	QPSK	100	0	19.34	19.17	19.17	20
20	16QAM	1	0	19.35	19.43	19.42	
20	16QAM	1	49	19.04	19.15	19.33	
20	16QAM	1	99	19.17	19.35	19.26	19
20	16QAM	50	0	18.52	18.41	18.42	
20	16QAM	50	24	18.46	18.34	18.51	
20	16QAM	50	50	18.40	18.43	18.27	20
20	16QAM	100	0	18.50	18.35	18.50	
20	64QAM	1	0	19.22	19.46	19.43	
20	64QAM	1	49	19.22	19.25	19.35	19
20	64QAM	1	99	19.36	19.36	19.18	
20	64QAM	50	0	18.47	18.45	18.18	
20	64QAM	50	24	18.33	18.50	18.13	20
20	64QAM	50	50	18.12	18.33	18.14	
20	64QAM	100	0	18.39	18.46	18.39	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	20.13	20.20	20.10	21
15	QPSK	1	37	20.03	20.08	19.96	
15	QPSK	1	74	20.13	20.12	20.12	
15	QPSK	36	0	19.32	19.42	19.34	20
15	QPSK	36	20	19.35	19.30	19.33	
15	QPSK	36	39	19.11	19.08	19.08	
15	QPSK	75	0	19.10	19.13	19.09	20
15	16QAM	1	0	19.38	19.35	19.30	
15	16QAM	1	37	19.00	19.23	19.16	
15	16QAM	1	74	19.09	19.13	19.20	19
15	16QAM	36	0	18.54	18.48	18.56	
15	16QAM	36	20	18.42	18.27	18.47	
15	16QAM	36	39	18.20	18.31	18.28	20
15	16QAM	75	0	18.43	18.36	18.31	
15	64QAM	1	0	19.37	19.29	19.44	
15	64QAM	1	37	19.09	19.35	19.38	19
15	64QAM	1	74	19.19	19.25	19.22	
15	64QAM	36	0	18.36	18.44	18.20	
15	64QAM	36	20	18.39	18.23	18.22	20
15	64QAM	36	39	18.27	18.40	18.32	
15	64QAM	75	0	18.18	18.29	18.34	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	20.22	20.19	20.10	21
10	QPSK	1	25	20.15	20.07	20.05	
10	QPSK	1	49	20.11	20.09	20.14	
10	QPSK	25	0	19.18	19.38	19.33	20
10	QPSK	25	12	19.26	19.29	19.25	
10	QPSK	25	25	19.21	19.16	19.27	
10	QPSK	50	0	19.08	19.27	19.02	20
10	16QAM	1	0	19.35	19.19	19.43	
10	16QAM	1	25	19.14	19.09	19.33	
10	16QAM	1	49	19.36	19.23	19.25	19
10	16QAM	25	0	18.47	18.45	18.33	
10	16QAM	25	12	18.28	18.50	18.45	
10	16QAM	25	25	18.43	18.51	18.34	20
10	16QAM	50	0	18.42	18.54	18.51	
10	64QAM	1	0	19.34	19.26	19.24	
10	64QAM	1	25	19.13	19.37	19.35	19
10	64QAM	1	49	19.40	19.43	19.23	
10	64QAM	25	0	18.42	18.37	18.33	
10	64QAM	25	12	18.40	18.42	18.38	20
10	64QAM	25	25	18.35	18.42	18.32	
10	64QAM	50	0	18.20	18.51	18.36	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	20.15	20.18	20.16	21
5	QPSK	1	12	20.10	20.13	20.06	
5	QPSK	1	24	20.11	20.01	20.14	
5	QPSK	12	0	19.26	19.39	19.31	20
5	QPSK	12	7	19.21	19.29	19.35	
5	QPSK	12	13	19.14	19.14	19.12	
5	QPSK	25	0	19.21	19.22	19.29	19
5	16QAM	1	0	19.38	19.38	19.26	
5	16QAM	1	12	19.13	19.05	19.27	
5	16QAM	1	24	19.36	19.11	19.20	20
5	16QAM	12	0	18.32	18.51	18.59	
5	16QAM	12	7	18.48	18.34	18.43	
5	16QAM	12	13	18.47	18.34	18.48	19
5	16QAM	25	0	18.43	18.45	18.33	
5	64QAM	1	0	19.42	19.33	19.49	
5	64QAM	1	12	19.37	19.21	19.30	20
5	64QAM	1	24	19.46	19.47	19.36	
5	64QAM	12	0	18.24	18.37	18.42	
5	64QAM	12	7	18.35	18.22	18.23	19
5	64QAM	12	13	18.36	18.30	18.10	
5	64QAM	25	0	18.21	18.29	18.40	



Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23090	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	20.62	20.86	20.75	21.5
10	QPSK	1	25	20.72	20.76	20.58	
10	QPSK	1	49	20.71	20.73	20.67	
10	QPSK	25	0	19.78	19.83	19.75	20.5
10	QPSK	25	12	19.77	19.81	19.78	
10	QPSK	25	25	19.83	19.81	19.82	
10	QPSK	50	0	19.81	19.78	19.87	20.5
10	16QAM	1	0	19.95	19.91	19.98	
10	16QAM	1	25	19.67	19.79	19.73	
10	16QAM	1	49	19.93	19.72	19.64	19.5
10	16QAM	25	0	18.79	18.88	18.92	
10	16QAM	25	12	18.71	18.95	18.85	
10	16QAM	25	25	18.69	18.82	18.84	20.5
10	16QAM	50	0	18.83	18.79	18.88	
10	64QAM	1	0	19.84	19.89	19.91	
10	64QAM	1	25	19.69	19.74	19.92	19.5
10	64QAM	1	49	19.75	19.93	19.98	
10	64QAM	25	0	18.83	18.90	18.96	
10	64QAM	25	12	18.88	18.70	18.74	19.5
10	64QAM	25	25	18.74	18.71	18.93	
10	64QAM	50	0	18.89	18.82	18.82	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	20.68	20.83	20.66	21.5
5	QPSK	1	12	20.76	20.65	20.76	
5	QPSK	1	24	20.73	20.79	20.69	
5	QPSK	12	0	19.70	19.88	19.84	20.5
5	QPSK	12	7	19.69	19.79	19.78	
5	QPSK	12	13	19.72	19.71	19.61	
5	QPSK	25	0	19.66	19.80	18.77	20.5
5	16QAM	1	0	19.76	19.85	19.87	
5	16QAM	1	12	19.85	19.69	19.84	
5	16QAM	1	24	19.96	19.74	19.63	19.5
5	16QAM	12	0	18.80	18.85	18.88	
5	16QAM	12	7	18.90	18.84	18.82	
5	16QAM	12	13	18.91	18.93	18.72	20.5
5	16QAM	25	0	18.79	18.72	18.63	
5	64QAM	1	0	19.95	19.91	19.82	
5	64QAM	1	12	19.70	19.95	19.82	19.5
5	64QAM	1	24	19.86	19.89	20.01	
5	64QAM	12	0	18.74	18.95	18.93	
5	64QAM	12	7	18.85	18.98	18.75	20.5
5	64QAM	12	13	18.80	18.75	18.78	
5	64QAM	25	0	18.95	18.92	18.79	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	20.64	20.84	20.76	21.5
3	QPSK	1	8	20.77	20.72	20.77	
3	QPSK	1	14	20.65	20.66	20.75	
3	QPSK	8	0	20.01	19.96	20.12	20.5
3	QPSK	8	4	19.88	19.80	19.93	
3	QPSK	8	7	19.75	19.83	19.79	
3	QPSK	15	0	19.68	19.99	19.62	20.5
3	16QAM	1	0	19.85	19.81	19.84	
3	16QAM	1	8	19.73	19.82	19.66	
3	16QAM	1	14	19.92	19.70	19.64	19.5
3	16QAM	8	0	19.13	18.87	18.79	
3	16QAM	8	4	18.91	18.90	18.87	
3	16QAM	8	7	18.78	18.72	18.89	20.5
3	16QAM	15	0	18.92	18.79	18.97	
3	64QAM	1	0	19.83	19.91	19.87	
3	64QAM	1	8	19.79	19.95	19.99	19.5
3	64QAM	1	14	19.98	19.79	19.85	
3	64QAM	8	0	18.79	18.79	18.84	
3	64QAM	8	4	18.92	18.92	18.82	20.5
3	64QAM	8	7	18.82	18.82	18.87	
3	64QAM	15	0	18.92	18.85	18.77	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	20.71	20.79	20.73	21.5
1.4	QPSK	1	3	20.64	20.75	20.67	
1.4	QPSK	1	5	20.67	20.70	20.65	
1.4	QPSK	3	0	19.83	19.86	19.81	20.5
1.4	QPSK	3	1	19.76	19.78	19.68	
1.4	QPSK	3	3	19.65	19.71	19.67	
1.4	QPSK	6	0	19.65	19.88	19.69	20.5
1.4	16QAM	1	0	19.81	19.92	19.79	
1.4	16QAM	1	3	19.86	19.72	19.72	
1.4	16QAM	1	5	19.70	19.67	19.70	19.5
1.4	16QAM	3	0	19.07	19.16	19.01	
1.4	16QAM	3	1	18.90	18.84	18.97	
1.4	16QAM	3	3	18.90	18.91	18.89	20.5
1.4	16QAM	6	0	18.79	18.86	18.72	
1.4	64QAM	1	0	19.80	19.85	19.94	
1.4	64QAM	1	3	19.85	19.77	19.90	19.5
1.4	64QAM	1	5	19.84	19.85	19.90	
1.4	64QAM	3	0	18.83	18.87	18.95	
1.4	64QAM	3	1	18.78	18.75	18.99	19.5
1.4	64QAM	3	3	18.71	18.81	18.80	
1.4	64QAM	6	0	18.96	18.77	18.86	

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		21.40		22
10	QPSK	1	25		21.33		
10	QPSK	1	49		21.29		
10	QPSK	25	0		20.36		21
10	QPSK	25	12		20.28		
10	QPSK	25	25		20.22		
10	QPSK	50	0		20.30		21
10	16QAM	1	0		20.42		
10	16QAM	1	25		20.26		
10	16QAM	1	49		20.31		20
10	16QAM	25	0		19.30		
10	16QAM	25	12		19.21		
10	16QAM	25	25		19.18		21
10	16QAM	50	0		19.25		
10	64QAM	1	0		20.37		
10	64QAM	1	25		20.27		20
10	64QAM	1	49		20.33		
10	64QAM	25	0		19.25		
10	64QAM	25	12		19.18		21
10	64QAM	25	25		19.14		
10	64QAM	50	0		19.19		
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	21.19	21.31	21.25	22
5	QPSK	1	12	21.22	21.15	21.19	
5	QPSK	1	24	21.16	21.14	21.22	
5	QPSK	12	0	20.28	20.32	20.23	21
5	QPSK	12	7	20.08	20.14	19.96	
5	QPSK	12	13	20.05	20.12	20.02	
5	QPSK	25	0	20.08	20.23	20.01	21
5	16QAM	1	0	20.04	20.11	20.16	
5	16QAM	1	12	20.11	20.08	20.23	
5	16QAM	1	24	20.01	20.09	20.17	20
5	16QAM	12	0	19.13	19.27	19.03	
5	16QAM	12	7	19.15	19.15	19.01	
5	16QAM	12	13	18.96	19.15	19.18	21
5	16QAM	25	0	19.22	19.26	19.14	
5	64QAM	1	0	20.29	20.26	20.29	
5	64QAM	1	12	20.11	20.06	20.02	20
5	64QAM	1	24	20.30	20.04	20.12	
5	64QAM	12	0	19.10	19.10	19.12	
5	64QAM	12	7	19.04	19.14	19.23	19.5
5	64QAM	12	13	19.00	19.12	19.12	
5	64QAM	25	0	19.11	19.12	19.13	



Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	21.17	21.30	21.14	
10	QPSK	1	25	21.19	21.15	21.06	22
10	QPSK	1	49	21.04	21.18	21.18	
10	QPSK	25	0	20.08	20.31	20.26	
10	QPSK	25	12	20.21	20.22	19.98	21
10	QPSK	25	25	20.03	20.27	20.01	
10	QPSK	50	0	20.11	20.27	20.03	
10	16QAM	1	0	20.04	20.17	20.17	21
10	16QAM	1	25	19.92	20.07	20.22	
10	16QAM	1	49	19.90	19.91	20.03	
10	16QAM	25	0	19.10	19.27	19.00	20
10	16QAM	25	12	19.25	19.35	19.26	
10	16QAM	25	25	19.06	19.11	19.29	
10	16QAM	50	0	19.36	19.50	19.32	21
10	64QAM	1	0	20.30	20.25	20.17	
10	64QAM	1	25	20.14	20.14	20.11	
10	64QAM	1	49	20.14	20.11	20.13	20
10	64QAM	25	0	19.10	19.18	19.23	
10	64QAM	25	12	19.14	19.16	19.24	
10	64QAM	25	25	18.94	19.14	19.11	20
10	64QAM	50	0	18.93	19.04	19.09	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	21.17	21.25	21.14	
5	QPSK	1	12	21.21	21.16	21.15	22
5	QPSK	1	24	21.13	21.16	21.20	
5	QPSK	12	0	20.12	20.33	20.22	
5	QPSK	12	7	20.05	20.33	20.13	21
5	QPSK	12	13	20.10	20.14	20.10	
5	QPSK	25	0	19.95	20.25	20.14	
5	16QAM	1	0	20.14	20.13	20.09	21
5	16QAM	1	12	19.95	20.13	20.22	
5	16QAM	1	24	20.08	20.11	19.97	
5	16QAM	12	0	19.06	19.28	19.14	20
5	16QAM	12	7	19.24	19.20	19.28	
5	16QAM	12	13	18.99	18.97	19.29	
5	16QAM	25	0	19.21	19.23	19.30	21
5	64QAM	1	0	20.06	20.07	20.21	
5	64QAM	1	12	20.18	20.07	19.96	
5	64QAM	1	24	20.21	20.09	20.03	20
5	64QAM	12	0	19.19	19.20	19.15	
5	64QAM	12	7	19.02	19.16	19.03	
5	64QAM	12	13	18.92	18.93	18.98	20
5	64QAM	25	0	18.92	19.05	19.18	

Band 18 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23925	23925		
Frequency (MHz)				822.5			
15	QPSK	1	0		21.12		
15	QPSK	1	37		21.06		22
15	QPSK	1	74		21.01		
15	QPSK	36	0		20.34		
15	QPSK	36	20		20.22		21
15	QPSK	36	39		20.09		
15	QPSK	75	0		20.11		
15	16QAM	1	0		20.10		21
15	16QAM	1	37		20.06		
15	16QAM	1	74		20.04		
15	16QAM	36	0		19.16		20
15	16QAM	36	20		19.13		
15	16QAM	36	39		19.10		
15	16QAM	75	0		19.24		21
15	64QAM	1	0		20.07		
15	64QAM	1	25		20.05		
15	64QAM	1	49		20.04		20
15	64QAM	25	0		19.11		
15	64QAM	25	12		19.16		
15	64QAM	25	25		19.02		20
15	64QAM	50	0		19.08		
Channel				23900	23925	23950	Tune-up limit (dBm)
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	21.08	21.10	21.06	
10	QPSK	1	25	21.05	20.88	20.94	22
10	QPSK	1	49	20.95	20.88	20.96	
10	QPSK	25	0	20.16	20.27	19.97	
10	QPSK	25	12	20.06	20.13	19.86	21
10	QPSK	25	25	19.96	19.95	19.99	
10	QPSK	50	0	19.82	19.88	19.86	
10	16QAM	1	0	19.99	20.06	20.11	21
10	16QAM	1	25	19.89	19.81	20.04	
10	16QAM	1	49	19.74	19.91	19.84	
10	16QAM	25	0	19.13	19.14	19.07	20
10	16QAM	25	12	18.91	19.02	19.04	
10	16QAM	25	25	18.95	19.06	18.99	
10	16QAM	50	0	19.27	19.08	19.03	21
10	64QAM	1	0	19.99	20.10	20.18	
10	64QAM	1	25	19.82	20.13	20.06	
10	64QAM	1	49	20.06	19.90	20.11	20
10	64QAM	25	0	19.07	19.12	18.98	
10	64QAM	25	12	19.02	19.19	19.04	
10	64QAM	25	25	19.12	18.93	19.05	20
10	64QAM	50	0	19.01	19.05	19.01	
Channel				23875	23925	23975	Tune-up limit (dBm)
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	21.03	21.07	21.06	
5	QPSK	1	12	20.95	20.95	21.00	22
5	QPSK	1	24	20.76	20.95	20.90	
5	QPSK	12	0	20.10	20.24	20.04	
5	QPSK	12	7	20.10	20.09	20.04	21
5	QPSK	12	13	19.80	20.07	19.75	
5	QPSK	25	0	19.77	19.95	19.74	
5	16QAM	1	0	20.08	20.05	20.11	21
5	16QAM	1	12	19.86	19.81	19.98	
5	16QAM	1	24	19.86	19.98	19.98	
5	16QAM	12	0	18.91	19.19	18.91	20
5	16QAM	12	7	19.09	19.20	19.16	
5	16QAM	12	13	19.10	19.00	18.98	
5	16QAM	25	0	19.12	19.21	19.20	21
5	64QAM	1	0	20.15	20.11	20.09	
5	64QAM	1	12	19.78	20.05	19.82	
5	64QAM	1	24	20.15	19.98	20.11	20
5	64QAM	12	0	19.19	18.95	19.10	
5	64QAM	12	7	19.01	19.12	19.02	
5	64QAM	12	13	18.92	18.81	18.94	20
5	64QAM	25	0	18.90	18.85	18.89	



Band 19 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				24075			Tune-up limit (dBm)
Frequency (MHz)				837.5			
15	QPSK	1	0		21.44		22
15	QPSK	1	37		21.21		
15	QPSK	1	74		21.37		
15	QPSK	36	0		20.45		21
15	QPSK	36	20		20.31		
15	QPSK	36	39		20.14		
15	QPSK	75	0		20.38		21
15	16QAM	1	0		20.18		
15	16QAM	1	37		20.13		
15	16QAM	1	74		20.15		20
15	16QAM	36	0		19.40		
15	16QAM	36	20		19.35		
15	16QAM	36	39		19.26		21
15	16QAM	75	0		19.25		
15	64QAM	1	0		20.33		
15	64QAM	1	25		20.40		20
15	64QAM	1	49		20.13		
15	64QAM	25	0		19.20		
15	64QAM	25	12		19.33		20
15	64QAM	25	25		19.30		
15	64QAM	50	0		19.18		
Channel				24050	24075	24100	Tune-up limit (dBm)
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	21.38	21.40	21.37	22
10	QPSK	1	25	21.22	21.08	21.30	
10	QPSK	1	49	21.19	21.36	21.28	
10	QPSK	25	0	20.36	20.36	20.32	21
10	QPSK	25	12	20.34	20.29	20.12	
10	QPSK	25	25	20.01	20.25	20.08	
10	QPSK	50	0	20.11	20.15	20.01	21
10	16QAM	1	0	20.23	20.37	20.36	
10	16QAM	1	25	20.25	20.03	20.27	
10	16QAM	1	49	20.23	20.05	20.21	20
10	16QAM	25	0	19.44	19.54	19.32	
10	16QAM	25	12	19.33	19.25	19.29	
10	16QAM	25	25	19.24	19.25	19.47	21
10	16QAM	50	0	19.63	19.52	19.42	
10	64QAM	1	0	20.23	20.38	20.33	
10	64QAM	1	25	20.07	20.35	20.27	20
10	64QAM	1	49	20.21	20.07	20.19	
10	64QAM	25	0	19.37	19.36	19.27	
10	64QAM	25	12	19.36	19.30	19.35	20
10	64QAM	25	25	19.13	19.29	19.20	
10	64QAM	50	0	19.08	19.27	19.34	
Channel				24025	24075	24125	Tune-up limit (dBm)
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	21.10	21.38	21.33	22
5	QPSK	1	12	21.26	21.08	21.30	
5	QPSK	1	24	21.26	21.31	21.37	
5	QPSK	12	0	20.20	20.41	20.29	21
5	QPSK	12	7	20.31	20.43	20.27	
5	QPSK	12	13	20.27	20.41	20.10	
5	QPSK	25	0	20.05	20.20	20.05	21
5	16QAM	1	0	20.25	20.19	20.36	
5	16QAM	1	12	20.10	20.10	20.24	
5	16QAM	1	24	20.34	20.07	20.36	20
5	16QAM	12	0	19.37	19.43	19.19	
5	16QAM	12	7	19.33	19.26	19.40	
5	16QAM	12	13	19.18	19.14	19.32	21
5	16QAM	25	0	19.41	19.31	19.44	
5	64QAM	1	0	20.20	20.38	20.34	
5	64QAM	1	12	20.25	20.41	20.37	20
5	64QAM	1	24	20.24	20.19	20.42	
5	64QAM	12	0	19.39	19.18	19.15	
5	64QAM	12	7	19.43	19.23	19.18	20
5	64QAM	12	13	19.31	19.18	19.18	
5	64QAM	25	0	19.27	19.04	19.25	

Band 25 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	22.13	22.26	22.21	23
20	QPSK	1	49	22.05	22.10	22.16	
20	QPSK	1	99	21.95	22.14	22.01	
20	QPSK	50	0	21.08	21.26	21.22	22
20	QPSK	50	24	21.02	21.20	21.15	
20	QPSK	50	50	21.05	20.96	21.03	
20	QPSK	100	0	21.02	21.07	21.12	22
20	16QAM	1	0	21.15	20.96	21.12	
20	16QAM	1	49	21.06	20.96	20.99	
20	16QAM	1	99	20.89	20.90	20.93	21
20	16QAM	50	0	20.25	20.28	20.10	
20	16QAM	50	24	20.22	20.17	20.24	
20	16QAM	50	50	19.97	20.20	20.31	22
20	16QAM	100	0	20.45	20.42	20.13	
20	64QAM	1	0	20.96	21.08	21.12	
20	64QAM	1	49	20.90	21.12	20.91	22
20	64QAM	1	99	21.16	20.96	21.07	
20	64QAM	50	0	20.28	20.12	20.01	
20	64QAM	50	24	20.04	20.17	20.17	21
20	64QAM	50	50	20.08	20.15	20.05	
20	64QAM	100	0	20.10	20.07	20.09	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	22.13	22.23	22.10	23
15	QPSK	1	37	22.18	21.96	22.21	
15	QPSK	1	74	21.95	22.15	21.99	
15	QPSK	36	0	21.13	21.16	21.32	22
15	QPSK	36	20	21.13	21.18	21.11	
15	QPSK	36	39	21.04	21.22	21.03	
15	QPSK	75	0	21.11	21.17	21.05	22
15	16QAM	1	0	21.19	21.21	21.26	
15	16QAM	1	37	20.92	21.02	21.11	
15	16QAM	1	74	21.07	21.06	21.07	21
15	16QAM	36	0	20.09	20.21	20.20	
15	16QAM	36	20	20.18	20.16	20.11	
15	16QAM	36	39	20.09	19.98	20.12	22
15	16QAM	75	0	20.16	20.20	20.03	
15	64QAM	1	0	21.21	21.14	21.18	
15	64QAM	1	37	21.05	21.22	21.08	22
15	64QAM	1	74	21.04	21.05	20.96	
15	64QAM	36	0	20.16	20.00	19.93	
15	64QAM	36	20	20.18	20.11	20.00	21
15	64QAM	36	39	20.04	19.93	19.95	
15	64QAM	75	0	19.81	19.88	20.05	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	22.14	22.19	22.15	23
10	QPSK	1	25	22.17	22.04	22.09	
10	QPSK	1	49	22.04	22.05	22.03	
10	QPSK	25	0	21.11	21.23	21.15	22
10	QPSK	25	12	21.08	21.09	21.00	
10	QPSK	25	25	20.89	21.06	21.09	
10	QPSK	50	0	20.80	20.98	21.04	22
10	16QAM	1	0	20.98	20.99	20.99	
10	16QAM	1	25	20.95	21.02	21.11	
10	16QAM	1	49	20.97	20.91	21.10	21
10	16QAM	25	0	20.15	20.25	19.98	
10	16QAM	25	12	20.18	20.07	20.14	
10	16QAM	25	25	20.14	19.94	20.08	22
10	16QAM	50	0	20.23	20.29	20.27	
10	64QAM	1	0	21.25	21.10	21.14	
10	64QAM	1	25	21.07	21.07	21.02	21
10	64QAM	1	49	21.19	21.04	21.07	
10	64QAM	25	0	20.05	20.22	20.02	
10	64QAM	25	12	20.07	20.14	20.04	21
10	64QAM	25	25	20.12	20.05	20.10	
10	64QAM	50	0	20.04	20.04	20.14	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	22.09	22.16	22.14	23
5	QPSK	1	12	22.07	22.05	22.12	
5	QPSK	1	24	21.99	22.09	22.06	
5	QPSK	12	0	21.24	21.27	21.04	22
5	QPSK	12	7	21.01	21.06	21.14	
5	QPSK	12	13	21.07	21.23	21.05	
5	QPSK	25	0	21.00	21.08	20.75	22
5	16QAM	1	0	21.15	21.07	21.03	
5	16QAM	1	12	21.02	21.05	21.20	
5	16QAM	1	24	21.06	21.09	21.11	21
5	16QAM	12	0	20.17	20.27	19.97	
5	16QAM	12	7	20.18	20.23	20.07	
5	16QAM	12	13	19.95	19.95	20.11	22
5	16QAM	25	0	20.16	20.12	20.22	
5	64QAM	1	0	21.16	21.09	21.25	
5	64QAM	1	12	21.05	21.23	20.94	21
5	64QAM	1	24	21.13	20.90	21.14	
5	64QAM	12	0	20.05	19.96	20.08	
5	64QAM	12	7	19.95	20.12	20.15	21
5	64QAM	12	13	20.12	19.92	19.86	
5	64QAM	25	0	20.02	19.94	20.11	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	22.12	22.17	22.09	23
3	QPSK	1	8	22.10	22.11	21.99	
3	QPSK	1	14	21.93	22.13	22.13	
3	QPSK	8	0	21.00	21.33	21.30	22
3	QPSK	8	4	21.07	21.25	21.02	
3	QPSK	8	7	21.09	21.08	21.05	



3	QPSK	15	0	20.85	21.07	20.70	22
3	16QAM	1	0	21.14	21.01	21.13	
3	16QAM	1	8	20.81	20.92	21.04	
3	16QAM	1	14	21.04	20.81	20.97	21
3	16QAM	8	0	20.09	20.34	20.12	
3	16QAM	8	4	20.29	20.28	20.18	
3	16QAM	8	7	20.05	20.08	20.14	
3	16QAM	15	0	20.37	20.24	20.31	
3	64QAM	1	0	21.14	21.15	21.25	22
3	64QAM	1	8	21.04	21.22	21.13	
3	64QAM	1	14	21.17	21.06	21.20	
3	64QAM	8	0	20.07	20.01	20.09	21
3	64QAM	8	4	20.23	20.27	19.99	
3	64QAM	8	7	20.01	20.11	19.95	
3	64QAM	15	0	20.08	19.98	20.16	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	22.12	22.18	22.08	23
1.4	QPSK	1	3	22.10	22.02	22.01	
1.4	QPSK	1	5	22.02	22.12	22.11	
1.4	QPSK	3	0	21.11	21.34	21.04	
1.4	QPSK	3	1	21.05	21.06	21.00	
1.4	QPSK	3	3	21.08	21.03	21.04	
1.4	QPSK	6	0	21.04	21.20	20.93	22
1.4	16QAM	1	0	21.07	21.16	21.26	21
1.4	16QAM	1	3	21.08	21.12	21.18	
1.4	16QAM	1	5	21.13	21.01	21.00	
1.4	16QAM	3	0	20.07	20.13	20.09	
1.4	16QAM	3	1	20.05	20.28	20.08	
1.4	16QAM	3	3	20.08	20.01	20.11	
1.4	16QAM	6	0	20.21	20.30	20.24	20
1.4	64QAM	1	0	21.06	21.09	21.30	22
1.4	64QAM	1	3	21.02	21.15	21.04	
1.4	64QAM	1	5	21.22	21.00	21.19	
1.4	64QAM	3	0	20.10	20.14	19.96	
1.4	64QAM	3	1	20.01	20.13	20.02	
1.4	64QAM	3	3	19.92	20.00	19.89	
1.4	64QAM	6	0	19.90	19.96	19.98	21



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)				831.5	831.5	841.5	
15	QPSK	1	0	22.04	22.19	22.15	23
15	QPSK	1	37	22.09	22.11	22.01	
15	QPSK	1	74	22.00	22.01	22.12	
15	QPSK	36	0	21.00	21.27	21.15	22
15	QPSK	36	20	21.21	21.25	20.98	
15	QPSK	36	39	21.10	21.04	20.99	
15	QPSK	75	0	20.98	21.10	20.91	22
15	16QAM	1	0	21.09	21.16	21.05	
15	16QAM	1	37	20.94	20.91	20.93	
15	16QAM	1	74	20.95	20.91	20.91	21
15	16QAM	36	0	20.09	20.24	20.17	
15	16QAM	36	20	20.23	20.07	20.19	
15	16QAM	36	39	20.06	19.93	20.25	22
15	16QAM	75	0	20.14	20.17	20.04	
15	64QAM	1	0	21.22	21.18	21.16	
15	64QAM	1	37	21.07	21.19	21.02	21
15	64QAM	1	74	21.20	21.04	20.98	
15	64QAM	36	0	20.04	20.16	19.94	
15	64QAM	36	20	20.23	20.24	20.15	21
15	64QAM	36	39	19.90	20.13	19.91	
15	64QAM	75	0	19.93	19.90	20.22	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.15	22.17	22.16	23
10	QPSK	1	25	22.16	21.88	22.07	
10	QPSK	1	49	22.01	22.10	22.08	
10	QPSK	25	0	21.11	21.16	21.12	22
10	QPSK	25	12	21.10	21.09	21.12	
10	QPSK	25	25	21.00	21.03	20.92	
10	QPSK	50	0	20.88	21.07	20.92	22
10	16QAM	1	0	21.15	21.23	21.20	
10	16QAM	1	25	20.88	21.00	21.07	
10	16QAM	1	49	20.84	20.91	21.03	21
10	16QAM	25	0	20.15	20.24	20.09	
10	16QAM	25	12	20.04	20.22	20.01	
10	16QAM	25	25	20.11	20.08	20.07	22
10	16QAM	50	0	20.40	20.23	20.32	
10	64QAM	1	0	21.03	21.04	21.12	
10	64QAM	1	25	21.07	21.15	21.08	21
10	64QAM	1	49	21.22	21.02	21.02	
10	64QAM	25	0	20.22	20.01	20.12	
10	64QAM	25	12	19.99	20.10	20.04	21
10	64QAM	25	25	19.97	19.92	19.98	
10	64QAM	50	0	19.85	20.10	20.18	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.03	22.16	22.15	23
5	QPSK	1	12	22.10	21.93	22.06	
5	QPSK	1	24	22.09	22.11	22.10	
5	QPSK	12	0	21.19	21.27	21.09	22
5	QPSK	12	7	21.16	21.11	20.88	
5	QPSK	12	13	20.89	21.23	20.95	
5	QPSK	25	0	20.97	21.06	20.89	22
5	16QAM	1	0	21.00	20.99	21.07	
5	16QAM	1	12	20.99	20.87	21.02	
5	16QAM	1	24	20.97	20.89	20.88	21
5	16QAM	12	0	20.12	20.20	20.13	
5	16QAM	12	7	20.09	20.15	20.06	
5	16QAM	12	13	19.99	20.01	20.19	22
5	16QAM	25	0	20.31	20.23	20.03	
5	64QAM	1	0	21.15	21.06	21.10	
5	64QAM	1	12	21.14	21.18	21.14	21
5	64QAM	1	24	21.18	21.02	20.95	
5	64QAM	12	0	20.10	20.07	19.95	
5	64QAM	12	7	20.22	20.12	20.16	21
5	64QAM	12	13	20.13	19.89	20.04	
5	64QAM	25	0	20.09	20.04	20.13	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.13	22.15	22.06	23
3	QPSK	1	8	22.12	21.92	22.04	
3	QPSK	1	14	22.07	22.14	21.95	
3	QPSK	8	0	21.08	21.24	21.18	22
3	QPSK	8	4	21.05	21.25	21.15	
3	QPSK	8	7	20.86	21.11	21.04	
3	QPSK	15	0	20.94	21.22	20.97	22
3	16QAM	1	0	21.16	20.98	21.18	
3	16QAM	1	8	20.97	20.96	21.23	
3	16QAM	1	14	21.14	20.83	20.92	21
3	16QAM	8	0	20.18	20.36	20.12	
3	16QAM	8	4	20.26	20.08	20.14	
3	16QAM	8	7	20.04	20.06	20.03	22
3	16QAM	15	0	20.19	20.16	20.22	
3	64QAM	1	0	21.24	21.21	21.25	
3	64QAM	1	8	20.84	20.99	20.89	21
3	64QAM	1	14	21.13	21.07	21.15	
3	64QAM	8	0	20.18	20.11	20.08	
3	64QAM	8	4	20.19	20.20	20.14	21
3	64QAM	8	7	19.93	20.15	19.94	
3	64QAM	15	0	19.97	20.09	20.14	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.02	22.12	22.05	23
1.4	QPSK	1	3	22.05	22.10	22.10	
1.4	QPSK	1	5	21.97	22.03	22.06	
1.4	QPSK	3	0	21.14	21.28	21.04	
1.4	QPSK	3	1	21.07	21.24	21.05	
1.4	QPSK	3	3	21.08	21.23	21.06	

Band 30 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0	20.66	20.83	20.80	21.5
10	QPSK	1	25	20.72	20.61	20.74	
10	QPSK	1	49	20.65	20.66	20.68	
10	QPSK	25	0	19.67	19.85	19.81	20.5
10	QPSK	25	12	19.70	19.78	19.56	
10	QPSK	25	25	19.66	19.58	19.65	
10	QPSK	50	0	19.57	19.78	19.59	20.5
10	16QAM	1	0	19.86	19.88	19.83	
10	16QAM	1	25	19.59	19.68	19.57	
10	16QAM	1	49	19.73	19.61	19.57	19.5
10	16QAM	25	0	18.66	18.86	18.70	
10	16QAM	25	12	18.80	18.79	18.62	
10	16QAM	25	25	18.50	18.66	18.74	20.5
10	16QAM	50	0	18.81	18.79	18.66	
10	64QAM	1	0	19.84	19.64	19.82	
10	64QAM	1	25	19.73	19.73	19.71	19.5
10	64QAM	1	49	19.77	19.66	19.56	
10	64QAM	25	0	18.79	18.53	18.67	
10	64QAM	25	12	18.71	18.89	18.71	19.5
10	64QAM	25	25	18.61	18.63	18.69	
10	64QAM	50	0	18.64	18.55	18.72	
Channel				27685	27710	27735	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	20.73	20.80	20.73	21.5
5	QPSK	1	12	20.75	20.71	20.72	
5	QPSK	1	24	20.59	20.59	20.64	
5	QPSK	12	0	19.77	19.88	19.86	20.5
5	QPSK	12	7	19.64	19.83	19.53	
5	QPSK	12	13	19.62	19.74	19.55	
5	QPSK	25	0	19.46	19.70	19.35	20.5
5	16QAM	1	0	19.77	19.76	19.76	
5	16QAM	1	12	19.65	19.57	19.62	
5	16QAM	1	24	19.67	19.63	19.58	19.5
5	16QAM	12	0	18.79	18.92	18.62	
5	16QAM	12	7	18.83	18.90	18.83	
5	16QAM	12	13	18.69	18.76	18.85	20.5
5	16QAM	25	0	18.80	18.89	18.87	
5	64QAM	1	0	19.68	19.60	19.89	
5	64QAM	1	12	19.59	19.81	19.75	19.5
5	64QAM	1	24	19.75	19.67	19.80	
5	64QAM	12	0	18.83	18.82	18.65	
5	64QAM	12	7	18.81	18.67	18.60	19.5
5	64QAM	12	13	18.64	18.66	18.54	
5	64QAM	25	0	18.66	18.53	18.75	



1.4	QPSK	6	0	20.97	21.04	20.96	22
1.4	16QAM	1	0	21.11	21.03	21.03	22
1.4	16QAM	1	3	20.87	20.92	21.20	
1.4	16QAM	1	5	20.90	20.93	20.88	
1.4	16QAM	3	0	20.17	20.32	20.10	
1.4	16QAM	3	1	20.17	20.33	20.18	
1.4	16QAM	3	3	20.07	20.06	20.17	
1.4	16QAM	6	0	20.46	20.35	20.15	21
1.4	64QAM	1	0	21.22	21.12	21.30	22
1.4	64QAM	1	3	21.08	20.99	20.97	
1.4	64QAM	1	5	21.27	21.11	21.24	
1.4	64QAM	3	0	20.12	20.11	20.15	
1.4	64QAM	3	1	20.03	20.15	20.20	
1.4	64QAM	3	3	19.88	19.90	19.82	
1.4	64QAM	6	0	19.86	20.05	20.12	21



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	20.66	20.81	20.78	21.5
20	QPSK	1	49	20.79	20.69	20.72	
20	QPSK	1	99	20.53	20.68	20.77	
20	QPSK	50	0	19.59	19.86	19.67	20.5
20	QPSK	50	24	19.64	19.86	19.69	
20	QPSK	50	50	19.58	19.68	19.60	
20	QPSK	100	0	19.62	19.80	19.59	20.5
20	16QAM	1	0	19.74	19.76	19.82	
20	16QAM	1	49	19.63	19.63	19.60	
20	16QAM	1	99	19.63	19.68	19.69	19.5
20	16QAM	50	0	18.69	18.80	18.68	
20	16QAM	50	24	18.61	18.70	18.69	
20	16QAM	50	50	18.62	18.77	18.85	20.5
20	16QAM	100	0	18.76	18.85	18.90	
20	64QAM	1	0	19.58	19.72	19.81	
20	64QAM	1	49	19.68	19.62	19.74	19.5
20	64QAM	1	99	19.83	19.65	19.66	
20	64QAM	50	0	18.63	18.63	18.58	
20	64QAM	50	24	18.58	18.71	18.58	19.5
20	64QAM	50	50	18.65	18.69	18.62	
20	64QAM	100	0	18.61	18.74	18.78	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.63	20.78	20.68	21.5
15	QPSK	1	37	20.64	20.69	20.76	
15	QPSK	1	74	20.59	20.59	20.63	
15	QPSK	36	0	19.76	19.86	19.81	20.5
15	QPSK	36	20	19.55	19.91	19.73	
15	QPSK	36	39	19.54	19.78	19.55	
15	QPSK	75	0	19.60	19.78	19.68	20.5
15	16QAM	1	0	19.65	19.78	19.59	
15	16QAM	1	37	19.48	19.62	19.80	
15	16QAM	1	74	19.62	19.58	19.56	19.5
15	16QAM	36	0	18.70	18.85	18.78	
15	16QAM	36	20	18.84	18.75	18.59	
15	16QAM	36	39	18.70	18.56	18.75	20.5
15	16QAM	75	0	18.81	18.99	18.87	
15	64QAM	1	0	19.62	19.67	19.86	
15	64QAM	1	37	19.69	19.75	19.70	19.5
15	64QAM	1	74	19.79	19.56	19.81	
15	64QAM	36	0	18.71	18.66	18.73	
15	64QAM	36	20	18.58	18.63	18.75	19.5
15	64QAM	36	39	18.70	18.64	18.53	
15	64QAM	75	0	18.50	18.66	18.73	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.76	20.79	20.69	21.5
10	QPSK	1	25	20.76	20.56	20.65	
10	QPSK	1	49	20.66	20.56	20.71	
10	QPSK	25	0	19.65	19.81	19.80	20.5
10	QPSK	25	12	19.51	19.79	19.58	
10	QPSK	25	25	19.67	19.59	19.55	
10	QPSK	50	0	19.69	19.80	19.61	20.5
10	16QAM	1	0	19.65	19.81	19.80	
10	16QAM	1	25	19.63	19.57	19.65	
10	16QAM	1	49	19.65	19.55	19.66	19.5
10	16QAM	25	0	18.61	18.81	18.66	
10	16QAM	25	12	18.62	18.77	18.74	
10	16QAM	25	25	18.64	18.52	18.87	20.5
10	16QAM	50	0	19.06	18.80	18.75	
10	64QAM	1	0	19.65	19.72	19.89	
10	64QAM	1	25	19.56	19.56	19.56	19.5
10	64QAM	1	49	19.72	19.68	19.63	
10	64QAM	25	0	18.69	18.71	18.79	
10	64QAM	25	12	18.74	18.85	18.59	19.5
10	64QAM	25	25	18.51	18.66	18.57	
10	64QAM	50	0	18.67	18.44	18.61	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.52	20.76	20.72	21.5
5	QPSK	1	12	20.65	20.64	20.60	
5	QPSK	1	24	20.62	20.59	20.64	
5	QPSK	12	0	19.82	19.89	19.73	20.5
5	QPSK	12	7	19.64	19.86	19.69	
5	QPSK	12	13	19.69	19.69	19.56	
5	QPSK	25	0	19.41	19.67	19.56	20.5
5	16QAM	1	0	19.61	19.59	19.68	
5	16QAM	1	12	19.57	19.56	19.61	
5	16QAM	1	24	19.57	19.52	19.75	19.5
5	16QAM	12	0	18.75	18.81	18.66	
5	16QAM	12	7	18.76	18.82	18.83	
5	16QAM	12	13	18.70	18.53	18.78	20.5
5	16QAM	25	0	18.84	18.88	18.73	
5	64QAM	1	0	19.68	19.75	19.93	
5	64QAM	1	12	19.73	19.68	19.63	19.5
5	64QAM	1	24	19.85	19.64	19.60	
5	64QAM	12	0	18.68	18.68	18.79	
5	64QAM	12	7	18.78	18.70	18.77	20.5
5	64QAM	12	13	18.65	18.62	18.63	
5	64QAM	25	0	18.69	18.64	18.85	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.71	20.75	20.70	21.5
3	QPSK	1	8	20.65	20.66	20.62	
3	QPSK	1	14	20.69	20.56	20.61	
3	QPSK	8	0	19.66	19.78	19.88	20.5
3	QPSK	8	4	19.74	19.89	19.64	
3	QPSK	8	7	19.64	19.63	19.64	

Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	22.05	22.13	22.02	23
20	QPSK	1	49	22.08	21.99	22.05	
20	QPSK	1	99	21.96	21.95	22.03	
20	QPSK	50	0	20.92	21.16	21.02	22
20	QPSK	50	24	20.87	21.12	20.83	
20	QPSK	50	50	20.87	20.90	20.86	
20	QPSK	100	0	20.93	21.09	20.97	22
20	16QAM	1	0	21.00	21.04	21.09	
20	16QAM	1	49	20.80	20.89	20.86	
20	16QAM	1	99	20.94	20.80	20.81	21
20	16QAM	50	0	20.15	20.12	20.09	
20	16QAM	50	24	20.20	20.03	19.96	
20	16QAM	50	50	19.92	20.09	20.06	21
20	16QAM	100	0	20.21	20.35	20.18	
20	64QAM	1	0	21.05	20.92	21.03	
20	64QAM	1	49	20.78	21.10	21.07	22
20	64QAM	1	99	20.94	21.02	20.96	
20	64QAM	50	0	19.94	20.02	20.08	
20	64QAM	50	24	20.01	20.12	19.82	21
20	64QAM	50	50	19.83	19.78	19.77	
20	64QAM	100	0	19.92	19.74	20.04	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.08	22.10	22.05	23
15	QPSK	1	37	21.95	21.90	22.04	
15	QPSK	1	74	21.91	22.02	21.95	
15	QPSK	36	0	21.04	21.20	21.22	22
15	QPSK	36	20	21.06	21.16	21.04	
15	QPSK	36	39	21.02	21.13	21.08	
15	QPSK	75	0	20.74	20.88	20.62	22
15	16QAM	1	0	21.06	21.08	21.01	
15	16QAM	1	37	20.93	21.01	20.94	
15	16QAM	1	74	20.95	21.02	20.96	21
15	16QAM	36	0	19.99	20.18	20.10	
15	16QAM	36	20	19.97	20.03	20.06	
15	16QAM	36	39	19.88	19.83	19.97	22
15	16QAM	75	0	20.19	20.36	20.10	
15	64QAM	1	0	20.98	21.14	21.22	
15	64QAM	1	37	20.97	21.00	20.97	21
15	64QAM	1	74	20.97	20.93	21.04	
15	64QAM	36	0	20.04	20.03	19.89	
15	64QAM	36	20	19.87	20.17	19.89	21
15	64QAM	36	39	19.97	20.02	19.97	
15	64QAM	75	0	19.91	19.92	19.97	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.04	22.09	22.00	23
10	QPSK	1	25	22.04	22.06	22.02	
10	QPSK	1	49	21.85	22.00	22.00	
10	QPSK	25	0	21.00	21.18	21.13	22
10	QPSK	25	12	21.07	20.95	21.05	
10	QPSK	25	25	20.81	20.94	20.91	
10	QPSK	50	0	20.94	20.96	20.99	22
10	16QAM	1	0	21.06	21.10	21.12	
10	16QAM	1	25	20.95	20.92	20.83	
10	16QAM	1	49	20.79	20.82	20.97	21
10	16QAM	25	0	20.13	20.26	20.11	
10	16QAM	25	12	20.03	20.04	20.02	
10	16QAM	25	25	19.94	19.92	20.17	22
10	16QAM	50	0	20.10	20.16	19.99	
10	64QAM	1	0	21.01	21.08	21.14	
10	64QAM	1	25	20.96	21.07	20.94	21
10	64QAM	1	49	21.23	20.95	21.14	
10	64QAM	25	0	19.96	20.03	20.03	
10	64QAM	25	12	20.10	20.13	20.10	21
10	64QAM	25	25	19.84	19.90	19.93	
10	64QAM	50	0	19.86	20.00	19.88	
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	21.95	22.08	22.06	23
5	QPSK	1	12	22.06	21.90	22.00	
5	QPSK	1	24	22.01	22.05	22.03	
5	QPSK	12	0	21.01	21.05	21.09	22
5	QPSK	12	7	21.02	21.12	20.91	
5	QPSK	12	13	20.92	20.87	20.97	
5	QPSK	25	0	20.74	20.86	20.60	22
5	16QAM	1	0	21.04	20.99	21.07	
5	16QAM	1	12	20.84	20.98	21.11	
5	16QAM	1	24	20.89	20.87	20.92	21
5	16QAM	12	0	20.12	20.27	19.92	
5	16QAM	12	7	20.00	19.99	20.08	
5	16QAM	12	13	19.94	20.10	20.10	21
5	16QAM	25	0	20.23	20.29	20.12	
5	64QAM	1	0	21.10	21.04	21.17	
5	64QAM	1	12	21.05	21.06	20.92	22
5	64QAM	1	24	21.12	20.84	20.89	
5	64QAM	12	0	20.13	20.03	19.94	
5	64QAM	12	7	19.87	19.95	19.82	21
5	64QAM	12	13	20.01	19.98	20.01	
5	64QAM	25	0	19.92	19.84	19.95	



3	QPSK	15	0	19.40	19.66	19.65	20.5
3	16QAM	1	0	19.72	19.80	19.73	
3	16QAM	1	8	19.67	19.65	19.57	
3	16QAM	1	14	19.73	19.47	19.47	19.5
3	16QAM	8	0	18.85	18.83	18.67	
3	16QAM	8	4	18.72	18.67	18.85	
3	16QAM	8	7	18.63	18.58	18.82	20.5
3	16QAM	15	0	18.76	18.98	18.71	
3	64QAM	1	0	19.85	19.78	19.75	
3	64QAM	1	8	19.59	19.56	19.59	19.5
3	64QAM	1	14	19.92	19.82	19.76	
3	64QAM	8	0	18.79	18.69	18.72	
3	64QAM	8	4	18.67	18.78	18.79	19.5
3	64QAM	8	7	18.61	18.58	18.61	
3	64QAM	15	0	18.60	18.70	18.82	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.74	20.77	20.76	21.5
1.4	QPSK	1	3	20.67	20.54	20.54	
1.4	QPSK	1	5	20.65	20.74	20.74	
1.4	QPSK	3	0	19.86	19.75	19.64	
1.4	QPSK	3	1	19.81	19.65	19.56	
1.4	QPSK	3	3	19.63	19.67	19.57	20.5
1.4	QPSK	6	0	19.66	19.83	19.82	
1.4	16QAM	1	0	19.86	19.72	19.67	20.5
1.4	16QAM	1	3	19.68	19.60	19.54	
1.4	16QAM	1	5	19.57	19.56	19.50	
1.4	16QAM	3	0	18.60	18.87	18.70	
1.4	16QAM	3	1	18.86	18.84	18.56	
1.4	16QAM	3	3	18.62	18.61	18.79	19.5
1.4	16QAM	6	0	18.88	18.76	18.66	
1.4	64QAM	1	0	19.82	19.65	19.97	20.5
1.4	64QAM	1	3	19.62	19.73	19.73	
1.4	64QAM	1	5	19.64	19.61	19.69	
1.4	64QAM	3	0	18.63	18.64	18.74	
1.4	64QAM	3	1	18.75	18.69	18.63	
1.4	64QAM	3	3	18.65	18.56	18.59	19.5
1.4	64QAM	6	0	18.45	18.65	18.66	



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	22
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.15	21.29	21.24	21
20	QPSK	1	49	21.11	21.12	21.12	
20	QPSK	1	99	21.07	21.21	21.17	
20	QPSK	50	0	20.09	20.35	20.30	
20	QPSK	50	24	20.07	20.30	20.09	21
20	QPSK	50	50	20.08	20.28	20.08	
20	QPSK	100	0	20.17	20.24	19.93	
20	16QAM	1	0	20.30	20.29	20.28	
20	16QAM	1	49	20.11	20.04	20.16	20
20	16QAM	1	99	20.15	20.05	20.16	
20	16QAM	50	0	19.30	19.38	19.27	
20	16QAM	50	24	19.17	19.27	19.19	
20	16QAM	50	50	19.04	19.24	19.30	21
20	16QAM	100	0	19.20	19.21	19.24	
20	64QAM	1	0	20.24	20.29	20.22	
20	64QAM	1	49	20.13	20.26	20.14	
20	64QAM	1	99	20.12	20.10	20.05	20
20	64QAM	50	0	19.15	19.13	19.06	
20	64QAM	50	24	19.13	19.16	19.12	
20	64QAM	50	50	19.15	19.11	19.07	
20	64QAM	100	0	19.06	19.04	19.21	22
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	21
15	QPSK	1	0	21.16	21.26	21.23	
15	QPSK	1	37	21.13	21.09	21.09	21
15	QPSK	1	74	21.02	21.18	21.17	
15	QPSK	36	0	20.10	20.30	20.24	
15	QPSK	36	20	20.17	20.24	20.09	
15	QPSK	36	39	20.09	20.21	20.10	21
15	QPSK	75	0	20.09	20.07	20.08	
15	16QAM	1	0	20.24	20.29	20.27	
15	16QAM	1	37	20.09	20.10	20.13	
15	16QAM	1	74	20.23	20.06	20.14	20
15	16QAM	36	0	19.21	19.37	19.24	
15	16QAM	36	20	19.30	19.24	19.17	
15	16QAM	36	39	19.09	19.16	19.16	
15	16QAM	75	0	19.28	19.38	19.27	21
15	64QAM	1	0	20.34	20.31	20.28	
15	64QAM	1	37	20.11	20.32	20.20	
15	64QAM	1	74	20.21	20.06	20.16	
15	64QAM	36	0	19.38	19.31	19.27	20
15	64QAM	36	20	19.09	19.25	19.23	
15	64QAM	36	39	19.03	19.14	19.13	
15	64QAM	75	0	19.18	19.15	19.18	
Channel				37800	38000	38200	22
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.19	21.25	21.21	21
10	QPSK	1	25	21.18	21.15	21.20	
10	QPSK	1	49	21.05	21.10	21.16	
10	QPSK	25	0	20.22	20.29	20.27	
10	QPSK	25	12	20.13	20.36	20.16	21
10	QPSK	25	25	20.08	20.25	20.02	
10	QPSK	50	0	20.04	20.24	20.18	
10	16QAM	1	0	20.21	20.05	20.21	
10	16QAM	1	25	19.92	20.02	20.11	20
10	16QAM	1	49	20.08	19.96	20.27	
10	16QAM	25	0	19.19	19.38	19.19	
10	16QAM	25	12	19.27	19.15	19.12	
10	16QAM	25	25	19.02	19.12	19.35	21
10	16QAM	50	0	19.35	19.42	19.42	
10	64QAM	1	0	20.26	20.28	20.27	
10	64QAM	1	25	20.01	20.32	20.11	
10	64QAM	1	49	20.19	20.11	20.28	20
10	64QAM	25	0	19.16	19.05	19.13	
10	64QAM	25	12	19.18	19.21	19.04	
10	64QAM	25	25	19.03	19.16	19.07	
10	64QAM	50	0	19.18	19.18	19.15	22
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	21
5	QPSK	1	0	21.10	21.24	21.21	
5	QPSK	1	12	21.05	21.21	21.10	21
5	QPSK	1	24	21.19	21.10	21.20	
5	QPSK	12	0	20.12	20.33	20.26	
5	QPSK	12	7	20.27	20.30	20.02	
5	QPSK	12	13	20.03	20.31	20.05	21
5	QPSK	25	0	20.02	20.11	19.95	
5	16QAM	1	0	20.28	20.30	20.12	
5	16QAM	1	12	20.14	19.96	20.33	
5	16QAM	1	24	20.14	20.03	20.09	20
5	16QAM	12	0	19.27	19.36	19.03	
5	16QAM	12	7	19.20	19.23	19.34	
5	16QAM	12	13	19.08	19.17	19.17	
5	16QAM	25	0	19.47	19.41	19.34	21
5	64QAM	1	0	20.07	20.18	20.25	
5	64QAM	1	12	20.07	20.08	20.19	
5	64QAM	1	24	20.30	20.05	20.17	
5	64QAM	12	0	19.26	19.09	19.17	20
5	64QAM	12	7	19.16	19.17	19.00	
5	64QAM	12	13	19.19	19.17	19.10	
5	64QAM	25	0	18.97	19.01	19.06	

Band 40 (2.3G Band-1) (dBm) Part 27D-1 2305MHz ~ 2315MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0	20.61			21.5
10	QPSK	1	25	20.55			
10	QPSK	1	49	20.53			
10	QPSK	25	0	19.65			
10	QPSK	25	12	19.60			20.5
10	QPSK	25	25	19.52			
10	QPSK	50	0	19.57			
10	16QAM	1	0	19.59			
10	16QAM	1	25	19.55			20.5
10	16QAM	1	49	19.53			
10	16QAM	25	0	18.69			
10	16QAM	25	12	18.62			
10	16QAM	25	25	18.60			19.5
10	16QAM	50	0	18.65			
10	64QAM	1	0	19.61			
10	64QAM	1	25	19.51			
10	64QAM	1	49	19.47			20.5
10	64QAM	25	0	18.66			
10	64QAM	25	12	18.52			
10	64QAM	25	25	18.53			
10	64QAM	50	0	18.56			
Channel				38725	38750	38775	
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)
5	QPSK	1	0	20.53	20.58	20.57	21.5
5	QPSK	1	12	20.56	20.31	20.45	
5	QPSK	1	24	20.48	20.53	20.49	
5	QPSK	12	0	19.51	19.56	19.54	
5	QPSK	12	7	19.38	19.53	19.27	20.5
5	QPSK	12	13	19.44	19.40	19.36	
5	QPSK	25	0	19.20	19.43	19.27	
5	16QAM	1	0	19.57	19.55	19.49	
5	16QAM	1	12	19.22	19.35	19.38	20.5
5	16QAM	1	24	19.50	19.33	19.33	
5	16QAM	12	0	18.40	18.83	18.45	
5	16QAM	12	7	18.43	18.61	18.51	
5	16QAM	12	13	18.46	18.55	18.66	19.5
5	16QAM	25	0	18.82	18.73	18.49	
5	64QAM	1	0	19.51	19.59	19.61	
5	64QAM	1	12	19.55	19.63	19.43	
5	64QAM	1	24	19.74	19.41	19.40	20.5
5	64QAM	12	0	18.60	18.41	18.36	
5	64QAM	12	7	18.57	18.44	18.49	
5	64QAM	12	13	18.35	18.43	18.45	
5	64QAM	25	0	18.45	18.47	18.46	19.5

Band 40 (2.3G Band-2) (dBm)						
Part 27D-2 2350MHz ~ 2360MHz						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				39200		
Frequency (MHz)				2355		
10	QPSK	1	0	20.56		
10	QPSK	1	25	20.53		
10	QPSK	1	49	20.50		
10	QPSK	25	0	19.61		
10	QPSK	25	12	19.55		
10	QPSK	25	25	19.57		
10	QPSK	50	0	19.54		
10	16QAM	1	0	19.54		
10	16QAM	1	25	19.56		
10	16QAM	1	49	19.58		
10	16QAM	25	0	18.64		
10	16QAM	25	12	18.53		
10	16QAM	25	25	18.54		
10	16QAM	50	0	18.57		
10	64QAM	1	0	19.63		
10	64QAM	1	25	19.61		
10	64QAM	1	49	19.57		
10	64QAM	25	0	18.60		
10	64QAM	25	12	18.42		
10	64QAM	25	25	18.48		
10	64QAM	50	0	18.51		
Channel				39175	39200	39225
Frequency (MHz)				2352.5	2355	2357.5
5	QPSK	1	0	20.53	20.53	20.48
5	QPSK	1	12	20.51	20.42	20.50
5	QPSK	1	24	20.40	20.45	20.41
5	QPSK	12	0	19.59	19.57	19.57
5	QPSK	12	7	19.51	19.65	19.28
5	QPSK	12	13	19.35	19.39	19.33
5	QPSK	25	0	19.44	19.57	19.43
5	16QAM	1	0	19.61	19.64	19.55
5	16QAM	1	12	19.34	19.40	19.43
5	16QAM	1	24	19.40	19.31	19.57
5	16QAM	12	0	18.52	18.64	18.55
5	16QAM	12	7	18.52	18.63	18.44
5	16QAM	12	13	18.51	18.53	18.65
5	16QAM	25	0	18.71	18.78	18.73
5	64QAM	1	0	19.47	19.56	19.58
5	64QAM	1	12	19.51	19.40	19.54
5	64QAM	1	24	19.50	19.49	19.62
5	64QAM	12	0	18.67	18.41	18.37
5	64QAM	12	7	18.46	18.56	18.34
5	64QAM	12	13	18.44	18.43	18.34
5	64QAM	25	0	18.44	18.45	18.52



Band 41 (2496~2690MHz) (dBm)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	22.5
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.39	21.44	21.65	21.57	21.52	21.5
20	QPSK	1	49	21.46	21.50	21.59	21.41	21.46	
20	QPSK	1	99	21.31	21.29	21.45	21.47	21.43	
20	QPSK	50	0	20.66	20.47	20.75	20.71	20.63	
20	QPSK	50	24	20.61	20.52	20.72	20.45	20.50	21.5
20	QPSK	50	50	20.45	20.53	20.60	20.44	20.47	
20	QPSK	100	0	20.45	20.41	20.62	20.34	20.43	
20	16QAM	1	0	20.47	20.51	20.66	20.51	20.49	
20	16QAM	1	49	20.44	20.33	20.38	20.42	20.37	21.5
20	16QAM	1	99	20.42	20.34	20.45	20.43	20.40	
20	16QAM	50	0	19.55	19.58	19.76	19.51	19.58	
20	16QAM	50	24	19.47	19.58	19.52	19.44	19.48	
20	16QAM	50	50	19.40	19.37	19.46	19.43	19.37	21.5
20	16QAM	100	0	19.67	19.76	19.67	19.44	19.57	
20	64QAM	1	0	20.60	20.39	20.59	20.52	20.37	
20	64QAM	1	49	20.26	20.31	20.37	20.53	20.50	
20	64QAM	1	99	20.52	20.60	20.30	20.37	20.46	20.5
20	64QAM	50	0	19.63	19.72	19.62	19.53	19.64	
20	64QAM	50	24	19.50	19.52	19.60	19.59	19.62	
20	64QAM	50	50	19.50	19.38	19.51	19.38	19.49	
20	64QAM	100	0	19.40	19.42	19.42	19.47	19.33	22.5
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	22.5
15	QPSK	1	0	21.46	21.44	21.62	21.51	21.36	
15	QPSK	1	37	21.60	21.50	21.43	21.50	21.46	21.5
15	QPSK	1	74	21.41	21.38	21.35	21.43	21.39	
15	QPSK	36	0	20.46	20.56	20.65	20.57	20.49	
15	QPSK	36	20	20.48	20.43	20.59	20.29	20.34	
15	QPSK	36	39	20.34	20.47	20.39	20.40	20.33	21.5
15	QPSK	75	0	20.28	20.45	20.45	20.36	20.45	
15	16QAM	1	0	20.66	20.41	20.74	20.69	20.67	
15	16QAM	1	37	20.40	20.45	20.52	20.52	20.37	
15	16QAM	1	74	20.42	20.34	20.53	20.51	20.48	20.5
15	16QAM	36	0	19.62	19.67	19.73	19.52	19.59	
15	16QAM	36	20	19.58	19.64	19.63	19.62	19.66	
15	16QAM	36	39	19.51	19.45	19.57	19.62	19.46	
15	16QAM	75	0	19.67	19.80	19.67	19.68	19.81	21.5
15	64QAM	1	0	20.47	20.44	20.66	20.60	20.65	
15	64QAM	1	37	20.47	20.44	20.58	20.37	20.34	
15	64QAM	1	74	20.48	20.70	20.46	20.50	20.59	
15	64QAM	36	0	19.73	19.65	19.62	19.45	19.46	20.5
15	64QAM	36	20	19.41	19.34	19.51	19.39	19.42	
15	64QAM	36	39	19.39	19.50	19.42	19.39	19.50	
15	64QAM	75	0	19.50	19.37	19.52	19.57	19.43	
Channel				39700	40160	40620	41080	41540	22.5
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.41	21.43	21.60	21.55	21.46	21.5
10	QPSK	1	25	21.45	21.52	21.50	21.53	21.50	
10	QPSK	1	49	21.45	21.29	21.46	21.50	21.36	
10	QPSK	25	0	20.64	20.40	20.75	20.73	20.65	
10	QPSK	25	12	20.42	20.47	20.53	20.53	20.48	21.5
10	QPSK	25	25	20.40	20.53	20.45	20.52	20.45	
10	QPSK	50	0	20.18	20.31	20.35	20.35	20.44	
10	16QAM	1	0	20.43	20.46	20.61	20.69	20.67	
10	16QAM	1	25	20.35	20.47	20.29	20.43	20.28	20.5
10	16QAM	1	49	20.56	20.46	20.59	20.44	20.41	
10	16QAM	25	0	19.53	19.64	19.64	19.52	19.59	
10	16QAM	25	12	19.63	19.57	19.68	19.61	19.65	
10	16QAM	25	25	19.46	19.36	19.52	19.52	19.36	21.5
10	16QAM	50	0	19.70	19.65	19.70	19.53	19.66	
10	64QAM	1	0	20.52	20.50	20.51	20.68	20.53	
10	64QAM	1	25	20.53	20.48	20.64	20.52	20.49	
10	64QAM	1	49	20.54	20.48	20.52	20.48	20.57	20.5
10	64QAM	25	0	19.49	19.65	19.58	19.52	19.43	
10	64QAM	25	12	19.56	19.45	19.66	19.47	19.50	
10	64QAM	25	25	19.48	19.43	19.51	19.44	19.35	
10	64QAM	50	0	19.41	19.39	19.43	19.49	19.35	22.5
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	22.5
5	QPSK	1	0	21.58	21.54	21.59	21.56	21.45	
5	QPSK	1	12	21.48	21.51	21.55	21.50	21.55	21.5
5	QPSK	1	24	21.31	21.42	21.45	21.56	21.42	
5	QPSK	12	0	20.61	20.37	20.80	20.72	20.64	
5	QPSK	12	7	20.55	20.49	20.66	20.50	20.55	
5	QPSK	12	13	20.42	20.40	20.52	20.51	20.44	21.5
5	QPSK	25	0	20.35	20.44	20.47	20.43	20.32	
5	16QAM	1	0	20.67	20.47	20.65	20.55	20.53	
5	16QAM	1	12	20.38	20.37	20.32	20.61	20.46	
5	16QAM	1	24	20.52	20.35	20.35	20.36	20.33	20.5
5	16QAM	12	0	19.67	19.41	19.78	19.40	19.47	
5	16QAM	12	7	19.56	19.44	19.61	19.47	19.51	
5	16QAM	12	13	19.44	19.43	19.40	19.67	19.51	
5	16QAM	25	0	19.58	19.61	19.58	19.71	19.84	21.5
5	64QAM	1	0	20.51	20.48	20.50	20.64	20.49	
5	64QAM	1	12	20.37	20.41	20.48	20.39	20.35	
5	64QAM	1	24	20.71	20.69	20.49	20.61	20.70	
5	64QAM	12	0	19.47	19.63	19.56	19.57	19.68	20.5
5	64QAM	12	7	19.49	19.39	19.59	19.54	19.57	
5	64QAM	12	13	19.50	19.40	19.53	19.39	19.50	
5	64QAM	25	0	19.41	19.42	19.43	19.40	19.26	



2.4GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1	802.11a 18Mbps	CH 1	2412	18.25	17.00	19
		CH 7	2442	17.24	16.00	20
		CH 13	2472	13.23	14.00	15
	802.11g 54Mbps	CH 1	2412	14.00	15.00	17
		CH 7	2442	15.12	16.00	16.5
		CH 13	2472	0.29	1.00	2
	802.11n-HT20 MCS0	CH 1	2412	13.01	14.00	17
		CH 7	2442	15.71	16.50	19
		CH 13	2472	0.05	1.00	2
	802.11n-HT40 MCS0	CH 1	2412	11.06	12.00	13
		CH 5	2437	14.40	15.00	17
		CH 9	2462	5.58	6.50	8

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 1	802.11a 18Mbps	CH 36	5180	15.04	16.00	19
		CH 44	5220	14.91	15.50	19
		CH 48	5240	14.56	15.50	19
	802.11n-HT20 MCS0	CH 36	5180	14.21	15.00	16.5
		CH 44	5220	14.21	15.00	16.5
		CH 48	5240	13.80	14.50	16.5
	802.11n-HT40 MCS0	CH 36	5190	12.01	13.00	15
		CH 46	5230	14.11	15.00	19
		CH 48	5240	14.18	15.00	16.5
	802.11ac-VHT20 MCS0	CH 44	5220	14.11	15.00	16.5
		CH 48	5240	13.64	14.50	16.5
		CH 38	5160	12.01	13.00	15

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 1	802.11a 18Mbps	CH 52	5260	15.05	16.00	19.5
		CH 56	5280	14.26	15.50	19.5
		CH 64	5320	14.18	15.00	19.5
	802.11n-HT20 MCS0	CH 52	5260	14.40	15.00	19
		CH 60	5300	13.59	14.50	19
		CH 64	5320	13.52	14.50	19
	802.11n-HT40 MCS0	CH 54	5270	13.56	14.50	17
		CH 62	5310	11.06	12.00	13
		CH 52	5260	14.23	15.00	19
	802.11ac-VHT20 MCS0	CH 60	5300	13.78	14.50	19
		CH 64	5320	13.28	14.00	19
		CH 54	5270	14.15	15.00	16.5

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 1	802.11a 18Mbps	CH 128	5600	15.28	16.00	19
		CH 130	5620	16.04	17.00	19
		CH 140	5700	15.80	16.00	19
	802.11n-HT20 MCS0	CH 144	5720	15.63	16.00	19
		CH 130	5600	14.19	15.00	19
		CH 138	5600	15.19	16.00	19
	802.11n-HT40 MCS0	CH 144	5720	14.85	15.00	19
		CH 102	5510	13.36	14.50	16
		CH 126	5630	14.78	15.00	16.5
	802.11ac-VHT20 MCS0	CH 142	5710	14.43	15.00	16.5
		CH 130	5600	14.21	15.00	18
		CH 138	5600	15.17	16.00	19

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 1	802.11a 18Mbps	CH 148	5745	15.26	16.00	19
		CH 157	5785	14.49	15.00	19
		CH 165	5825	14.18	15.00	19
	802.11n-HT20 MCS0	CH 149	5745	14.08	15.50	19
		CH 157	5785	13.97	14.50	18
		CH 165	5825	13.22	14.00	19
	802.11n-HT40 MCS0	CH 161	5795	14.19	15.00	16.5
		CH 159	5795	13.18	14.00	16.5
		CH 149	5745	14.54	15.50	19
	802.11ac-VHT20 MCS0	CH 157	5785	13.99	14.50	19
		CH 165	5825	13.18	14.00	19
		CH 161	5795	14.21	15.00	16.5

Bluetooth (1571)

Mode	Channel	Frequency (MHz)	Average power (dBm)		
BR / EDR	CH 00	2402	8.86	4.76	4.82
	CH 39	2441	5.14	4.71	4.82
	CH 16	2460	5.40	4.03	3.97
	Turn-up Limit	7	5.5	5.5	5.5
Duty Cycle %			77.51	77.59	77.15

Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402		GP SK	
	CH 16	2460		-3.86	
	CH 39	2440		-3.94	
	CH 35	2460		-2.74	
Turn-up Limit				9	
Duty Cycle %				16.87	

Bluetooth (480_1)

Mode	Channel	Frequency (MHz)	Average power (dBm)		
BR / EDR	CH 00	2402	8.97	6.12	6.15
	CH 39	2441	9.32	6.71	6.86
	CH 16	2460	9.60	7.15	7.34
	Turn-up Limit	10	8	8	8
Duty Cycle %			77.65	77.9	77.78

Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402		GP SK	
	CH 16	2460		7.71	
	CH 39	2440		8.32	
	CH 35	2460		8.63	
Turn-up Limit				9	
Duty Cycle %				64.62	

Bluetooth (446_2)

Mode	Channel	Frequency (MHz)	Average power (dBm)		
BR / EDR	CH 00	2402	8.31	5.70	5.67
	CH 39	2441	8.66	6.53	6.59
	CH 16	2460	9.32	6.26	6.47
	Turn-up Limit	10	7	7	7
Duty Cycle %			77.25	77.73	77.76

Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402		GP SK	
	CH 16	2460		7.31	
	CH 39	2440		7.86	
	CH 35	2460		7.86	
Turn-up Limit				8.5	
Duty Cycle %				64.62	