



REPORT No.: SZ21120041S01

# Annex E Conducted Power

Note: conducted power unit: dBm

### Full Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	TX Channel	128	189		251	128	189		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	31.56	31.64	31.61	32.50	22.56	22.64	22.61	23.50	0.11
GPRS 1 Tx slot	31.53	31.61	31.64	32.50	22.53	22.61	22.64	23.50	
GPRS 2 Tx slots	30.87	30.97	30.96	31.50	24.87	24.97	24.96	25.50	0.10
GPRS 3 Tx slots	29.19	29.26	29.28	29.50	24.93	25.00	25.02	25.24	0.09
GPRS 4 Tx slots	28.19	28.25	28.22	28.50	25.19	25.25	25.22	25.50	0.06
EDGE 1 Tx slot	26.15	26.11	26.02	26.50	17.15	17.11	17.02	17.50	0.13
EDGE 2 Tx slots	24.69	24.85	24.76	25.50	18.69	18.85	18.76	19.50	0.16
EDGE 3 Tx slots	22.52	22.61	22.88	23.50	18.26	18.35	18.62	19.24	0.36
EDGE 4 Tx slots	21.36	21.54	21.38	22.00	18.36	18.54	18.38	19.00	0.18
Mode		Max.	31.64			Max.	25.25		
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
	TX Channel	512	661		810	512	661		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	29.23	29.19	29.08	29.50	20.23	20.19	20.08	20.50	0.34
GPRS 1 Tx slot	29.01	28.97	28.89	29.50	20.01	19.97	19.89	20.50	
GPRS 2 Tx slots	28.08	28.09	28.01	28.50	22.08	22.09	22.01	22.50	0.08
GPRS 3 Tx slots	26.12	26.11	26.05	26.50	21.86	21.85	21.79	22.24	0.07
GPRS 4 Tx slots	25.00	25.02	24.93	25.50	22.00	22.02	21.93	22.50	0.09
EDGE 1 Tx slot	25.21	25.26	25.08	25.50	16.21	16.26	16.08	16.50	0.18
EDGE 2 Tx slots	23.51	23.70	23.64	24.50	17.51	17.70	17.64	18.50	0.19
EDGE 3 Tx slots	21.75	21.80	21.81	22.50	17.49	17.54	17.55	18.24	0.06
EDGE 4 Tx slots	20.68	21.07	20.85	21.50	17.68	18.07	17.85	18.50	0.39
Mode		Max.	29.23			Max.	22.09		
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	RMC 12.2Kbps	22.91	22.94	22.92	23.50	22.66	22.75	22.73	23.50	22.96	22.97	22.92	23.50
3GPP Rel 6	HSDPA Subtest-1	22.06	22.06	22.04	22.50	21.85	21.92	21.96	22.50	22.35	22.20	22.25	23.00
3GPP Rel 6	HSDPA Subtest-2	22.01	22.04	22.05	22.50	21.90	21.91	21.97	22.50	22.26	22.15	22.23	23.00
3GPP Rel 6	HSDPA Subtest-3	21.53	21.52	21.55	22.00	21.43	21.41	21.43	22.00	21.81	21.68	21.72	22.50
3GPP Rel 6	HSDPA Subtest-4	21.47	21.55	21.50	22.00	21.45	21.37	21.44	22.00	21.78	21.65	21.73	22.50
3GPP Rel 6	HSUPA Subtest-1	22.02	21.58	21.54	22.50	21.40	21.45	21.43	22.00	21.83	21.68	21.78	22.50
3GPP Rel 6	HSUPA Subtest-2	21.98	22.04	22.09	22.50	21.93	21.97	21.90	22.50	22.32	22.19	22.23	23.00
3GPP Rel 6	HSUPA Subtest-3	21.04	21.05	21.01	21.50	20.91	20.93	20.94	21.50	21.34	21.21	21.26	22.00
3GPP Rel 6	HSUPA Subtest-4	22.07	22.11	22.12	22.50	21.88	21.93	21.91	22.50	22.34	22.20	22.26	23.00
3GPP Rel 6	HSUPA Subtest-5	21.02	21.05	21.02	21.50	20.87	20.87	20.89	21.50	21.30	21.20	21.29	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.00	21.05	21.04	21.50	20.94	20.90	20.94	21.50	21.25	21.16	21.26	22.00
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.8		
Mode		Max.	22.94			Max.	22.75			Max.	22.97		

Band 2 (1900MHz Band) 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	23.27	23.28	23.21	
20	QPSK	1	49	23.21	23.21	23.24	24
20	QPSK	1	99	23.08	23.18	23.06	
20	QPSK	50	0	22.25	22.40	22.24	
20	QPSK	50	24	22.14	22.29	22.07	
20	QPSK	50	50	22.06	22.18	22.21	23
20	QPSK	100	0	22.35	22.37	22.17	
20	16QAM	1	0	22.21	22.40	22.39	
20	16QAM	1	49	22.23	22.36	22.40	
20	16QAM	1	99	22.31	22.22	22.24	
20	16QAM	50	0	21.33	21.39	21.40	
20	16QAM	50	24	21.25	21.35	21.33	
20	16QAM	50	50	21.22	21.36	21.21	22
20	16QAM	100	0	21.27	21.25	21.26	
20	64QAM	1	0	21.28	21.23	21.31	
20	64QAM	1	49	21.38	21.23	21.24	
20	64QAM	1	99	21.34	21.38	21.32	
20	64QAM	50	0	20.35	20.23	20.36	
20	64QAM	50	24	20.21	20.40	20.37	
20	64QAM	50	50	20.16	20.29	20.21	21
20	64QAM	100	0	20.31	20.27	20.29	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.09	23.10	23.02	
15	QPSK	1	37	23.03	23.03	23.05	
15	QPSK	1	74	22.90	23.00	22.87	
15	QPSK	36	0	22.17	22.37	22.15	
15	QPSK	36	20	22.06	22.21	21.98	
15	QPSK	36	39	21.98	22.10	22.12	
15	QPSK	75	0	22.27	22.29	22.08	
15	16QAM	1	0	22.33	22.32	22.30	
15	16QAM	1	37	22.35	22.28	22.31	
15	16QAM	1	74	22.23	22.34	22.35	
15	16QAM	36	0	21.25	21.31	21.31	
15	16QAM	36	20	21.17	21.27	21.24	
15	16QAM	36	39	21.14	21.28	21.32	
15	16QAM	75	0	21.19	21.17	21.17	
15	64QAM	1	0	21.40	21.35	21.22	
15	64QAM	1	37	21.30	21.35	21.35	
15	64QAM	1	74	21.26	21.30	21.23	
15	64QAM	36	0	20.27	20.35	20.27	
15	64QAM	36	20	20.13	20.32	20.28	
15	64QAM	36	39	20.08	20.21	20.32	
15	64QAM	75	0	20.23	20.19	20.20	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.10	23.12	23.04	
10	QPSK	1	25	23.04	23.05	23.07	
10	QPSK	1	49	22.91	23.02	22.89	
10	QPSK	25	0	22.18	22.39	22.17	
10	QPSK	25	12	22.07	22.23	22.00	
10	QPSK	25	25	21.99	22.12	22.14	
10	QPSK	50	0	22.28	22.31	22.10	
10	16QAM	1	0	22.34	22.34	22.32	
10	16QAM	1	25	22.36	22.30	22.33	
10	16QAM	1	49	22.24	22.36	22.37	
10	16QAM	1	99	21.26	21.33	21.33	
10	16QAM	25	0	21.26	21.33	21.33	
10	16QAM	25	12	21.18	21.29	21.26	
10	16QAM	25	25	21.15	21.30	21.34	
10	16QAM	50	0	21.20	21.19	21.19	
10	64QAM	1	0	21.21	21.37	21.24	
10	64QAM	1	25	21.31	21.33	21.37	
10	64QAM	1	49	21.27	21.32	21.25	
10	64QAM	25	0	20.28	20.37	20.29	
10	64QAM	25	12	20.14	20.34	20.30	
10	64QAM	25	25	20.09	20.23	20.34	
10	64QAM	50	0	20.24	20.21	20.22	
Channel				18825	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.07	23.09	23.01	
5	QPSK	1	12	23.01	23.02	23.04	
5	QPSK	1	24	22.88	22.99	22.86	
5	QPSK	12	0	22.15	22.36	22.14	
5	QPSK	12	7	22.04	22.20	21.97	
5	QPSK	12	13	21.96	22.09	22.11	
5	QPSK	25	0	22.25	22.28	22.07	
5	16QAM	1	0	22.31	22.31	22.29	
5	16QAM	1	12	22.33	22.27	22.30	
5	16QAM	1	24	22.21	22.33	22.34	
5	16QAM	12	0	21.23	21.30	21.30	
5	16QAM	12	7	21.15	21.26	21.23	
5	16QAM	12	13	21.12	21.27	21.31	
5	16QAM	25	0	21.17	21.16	21.16	
5	64QAM	1	0	21.38	21.34	21.21	
5	64QAM	1	12	21.28	21.34	21.34	
5	64QAM	1	24	21.24	21.29	21.22	
5	64QAM	12	0	20.25	20.34	20.26	
5	64QAM	12	7	20.11	20.31	20.27	
5	64QAM	12	13	20.06	20.20	20.31	
5	64QAM	25	0	20.21	20.18	20.19	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.12	23.14	23.06	
3	QPSK	1	8	23.06	23.07	23.09	
3	QPSK	1	14	22.93	23.04	22.91	
3	QPSK	8	0	22.20	22.40	22.19	
3	QPSK	8	4	22.09	22.25	22.02	

Band 4 (AWS Band) 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	22.62	22.67	22.80	
20	QPSK	1	49	22.86	22.84	22.81	
20	QPSK	1	99	22.72	22.77	22.70	
20	QPSK	50	0	21.73	22.11	22.06	
20	QPSK	50	24	21.98	21.95	21.94	
20	QPSK	50	50	22.03	21.89	22.06	
20	QPSK	100	0	22.05	22.01	22.08	
20	16QAM	1	0	22.19	22.06	21.97	
20	16QAM	1	49	22.01	22.16	21.99	
20	16QAM	1	99	22.13	22.03	22.30	
20	16QAM	50	0	21.04	21.06	20.99	
20	16QAM	50	24	21.01	21.10	21.06	
20	16QAM	50	50	21.12	20.94	21.20	
20	16QAM	100	0	20.94	20.87	21.00	
20	64QAM	1	0	21.02	21.11	21.27	
20	64QAM	1	49	21.21	21.05	20.88	
20	64QAM	1	99	21.03	20.96	21.08	
20	64QAM	50	0	19.96	20.07	20.12	
20	64QAM	50	24	20.00	20.01	20.14	
20	64QAM	50	50	20.10	20.13	20.10	
20	64QAM	100	0	20.03	20.20	19.91	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.76	22.82	22.74	
15	QPSK	1	37	22.80	22.79	22.75	
15	QPSK	1	74	22.66	22.72	22.64	
15	QPSK	36	0	21.67	22.08	22.00	
15	QPSK	36	20	21.82	21.90	21.88	
15	QPSK	36	39	21.97	21.84	22.00	
15	QPSK	75	0	21.99	21.96	22.05	
15	16QAM	1	0	22.13	22.01	21.91	
15	16QAM	1	37	21.95	22.11	21.93	
15	16QAM	1	74	22.07	21.98	22.24	
15	16QAM	36	0	20.98	21.01	20.93	
15	16QAM	36	20	20.95	21.05	21.00	
15	16QAM	36	39	21.06	20.89	21.14	
15	16QAM	75	0	20.88	20.82	20.94	
15	64QAM	1	0	20.96	21.06	21.21	
15	64QAM	1	37	21.15	21.00	20.82	
15	64QAM	1	74	20.97	20.91	21.02	
15	64QAM	36	0	19.90	20.02	20.06	
15	64QAM	36	20	19.94	19.96	20.08	
15	64QAM	36	39	20.04	20.08	20.04	
15	64QAM	75	0	19.97	20.15	19.85	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.81	22.86	22.79	
10	QPSK	1	25	22.85	22.83	22.80	
10	QPSK	1	49	22.71	22.76	22.69	
10	QPSK	25	0	21.72	22.10	22.05	
10	QPSK	25	12	21.97	21.94	21.93	
10	QPSK	25	25	22.02	21.88	22.05	
10	QPSK	50	0	22.04	22.00	22.07	
10	16QAM	1	0	22.18	22.05	21.96	
10	16QAM	1	25	22.00	22.15	21.98	
10	16QAM	1	49	22.12	22.02	22.29	
10	16QAM	1	99	21.03	21.05	20.98	
10	16QAM	25	0	21.03	21.05	20.98	
10	16QAM	25	12	21.00	21.09	21.05	
10	16QAM	25	25	21.11	20.93	21.19	
10	16QAM	50	0	20.93	20.86	20.99	
10	64QAM	1	0	20.99	21.08	21.24	
10	64QAM	1	25	21.18	21.		

3	QPSK	8	7	22.01	22.14	22.16	23	
3	QPSK	15	0	22.30	22.33	22.12		
3	16QAM	1	0	22.96	22.96	22.34		
3	16QAM	1	8	22.38	22.32	22.35		
3	16QAM	1	14	22.26	22.38	22.39		
3	16QAM	8	0	21.28	21.35	21.35		
3	16QAM	8	4	21.20	21.31	21.28		
3	16QAM	8	7	21.17	21.32	21.36		
3	16QAM	15	0	21.22	21.21	21.21		
3	64QAM	1	0	21.23	21.39	21.26		
3	64QAM	1	8	21.33	21.39	21.39		
3	64QAM	1	14	21.29	21.34	21.27		
3	64QAM	8	0	20.30	20.39	20.31		
3	64QAM	8	4	20.16	20.36	20.32		
3	64QAM	8	7	20.11	20.25	20.36		
3	64QAM	15	0	20.26	20.23	20.24		
Channel				18907	18900	19193	Tune-up limit (dBm)	
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	23.15	23.17	23.08	24	
1.4	QPSK	1	3	23.09	23.10	23.11		
1.4	QPSK	1	5	22.96	23.07	22.93		
1.4	QPSK	3	0	22.23	22.24	22.21		
1.4	QPSK	3	1	22.12	22.28	22.04		
1.4	QPSK	3	3	22.04	22.17	22.18		
1.4	QPSK	6	0	22.33	22.36	22.14	23	
1.4	16QAM	1	0	22.39	22.39	22.36		
1.4	16QAM	1	3	22.21	22.35	22.37	23	
1.4	16QAM	1	5	22.29	22.21	22.31		
1.4	16QAM	3	0	21.31	21.38	21.37		
1.4	16QAM	3	1	21.23	21.34	21.30		
1.4	16QAM	3	3	21.20	21.35	21.38		
1.4	16QAM	6	0	21.25	21.24	21.23		
1.4	64QAM	1	0	21.26	21.22	21.28	22	
1.4	64QAM	1	3	21.36	21.22	21.21		
1.4	64QAM	1	5	21.32	21.37	21.29		
1.4	64QAM	3	0	20.33	20.22	20.33		
1.4	64QAM	3	1	20.19	20.39	20.34		
1.4	64QAM	3	3	20.14	20.28	20.38		
1.4	64QAM	6	0	20.29	20.25	20.27		21
1.4	64QAM	6	0	20.29	20.25	20.27		

3	QPSK	8	7	21.91	21.83	21.94	22.5	
3	QPSK	15	0	21.93	21.95	21.99		
3	16QAM	1	0	22.07	22.00	21.85		
3	16QAM	1	8	21.89	22.10	21.87		
3	16QAM	1	14	22.01	21.97	22.18		
3	16QAM	8	0	20.92	21.00	20.87		
3	16QAM	8	4	20.89	21.04	20.94		
3	16QAM	8	7	21.00	20.88	21.08		
3	16QAM	15	0	20.82	20.81	20.88		
3	64QAM	1	0	20.90	21.05	21.15		
3	64QAM	1	8	21.09	20.99	20.76		
3	64QAM	1	14	20.91	20.90	20.96		
3	64QAM	8	0	19.84	20.01	20.00		
3	64QAM	8	4	19.88	19.95	20.02		
3	64QAM	8	7	19.98	20.07	19.98		
3	64QAM	15	0	19.97	20.26	19.97		
Channel				19957	20175	20393	Tune-up limit (dBm)	
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.69	22.74	22.67	23.5	
1.4	QPSK	1	3	22.73	22.71	22.68		
1.4	QPSK	1	5	22.59	22.64	22.57		
1.4	QPSK	3	0	21.60	21.95	21.93		
1.4	QPSK	3	1	21.85	21.82	21.81		
1.4	QPSK	3	3	21.90	21.76	21.93		
1.4	QPSK	6	0	21.92	21.88	21.98	22.5	
1.4	16QAM	1	0	22.06	21.93	21.84		
1.4	16QAM	1	3	21.88	22.03	21.86	22.5	
1.4	16QAM	1	5	22.00	21.90	22.17		
1.4	16QAM	3	0	20.91	20.93	20.86		
1.4	16QAM	3	1	20.88	20.97	20.93		
1.4	16QAM	3	3	20.99	20.81	21.07		
1.4	16QAM	6	0	20.95	20.88	21.01		
1.4	64QAM	1	0	21.03	21.12	21.28	21.5	
1.4	64QAM	1	3	21.22	21.06	20.89		
1.4	64QAM	1	5	21.04	20.97	21.09		
1.4	64QAM	3	0	19.97	20.08	20.13		
1.4	64QAM	3	1	20.01	20.02	20.15		
1.4	64QAM	3	3	20.11	20.14	20.11		
1.4	64QAM	6	0	20.04	20.21	19.92		20.5
1.4	64QAM	6	0	20.04	20.21	19.92		

Band 5 (Cellular Band) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	24.5
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.67	23.74	23.59	24.5
10	QPSK	1	25	23.61	23.70	23.51	
10	QPSK	1	49	23.51	23.59	23.54	
10	QPSK	25	0	22.72	22.73	22.64	23.5
10	QPSK	25	12	22.66	22.61	22.70	
10	QPSK	25	25	22.58	22.56	22.54	
10	QPSK	50	0	22.71	22.61	22.60	23.5
10	16QAM	1	0	22.77	22.82	22.73	
10	16QAM	1	25	22.73	22.80	22.66	
10	16QAM	1	49	22.70	22.71	22.63	22.5
10	16QAM	25	0	21.70	21.67	21.71	
10	16QAM	25	12	21.58	21.61	21.70	
10	16QAM	25	25	21.62	21.52	21.60	22.5
10	16QAM	50	0	21.89	21.64	21.73	
10	64QAM	1	0	21.84	21.71	21.87	
10	64QAM	1	25	21.54	21.60	21.72	22.5
10	64QAM	1	49	21.56	21.51	21.67	
10	64QAM	25	0	20.76	20.70	20.77	
10	64QAM	25	12	20.60	20.57	20.55	21.5
10	64QAM	25	25	20.58	20.49	20.51	
10	64QAM	50	0	20.65	20.66	20.67	
Channel				20425	20525	20625	24.5
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.57	23.64	23.49	24.5
5	QPSK	1	12	23.51	23.60	23.41	
5	QPSK	1	24	23.41	23.39	23.34	
5	QPSK	12	0	22.82	22.83	22.54	23.5
5	QPSK	12	7	22.56	22.51	22.60	
5	QPSK	12	13	22.48	22.46	22.44	
5	QPSK	25	0	22.61	22.51	22.50	23.5
5	16QAM	1	0	22.67	22.72	22.63	
5	16QAM	1	12	22.63	22.70	22.56	
5	16QAM	1	24	22.60	22.61	22.53	23.5
5	16QAM	12	0	21.60	21.57	21.61	
5	16QAM	12	7	21.48	21.51	21.60	
5	16QAM	12	13	21.52	21.42	21.50	22.5
5	16QAM	25	0	21.59	21.54	21.63	
5	64QAM	1	0	21.74	21.61	21.77	
5	64QAM	1	12	21.44	21.50	21.62	22.5
5	64QAM	1	24	21.46	21.41	21.57	
5	64QAM	12	0	20.66	20.60	20.67	
5	64QAM	12	7	20.50	20.47	20.45	21.5
5	64QAM	12	13	20.48	20.39	20.41	
5	64QAM	25	0	20.55	20.56	20.57	
Channel				20415	20525	20635	24.5
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.80	23.87	23.52	24.5
3	QPSK	1	8	23.54	23.63	23.44	
3	QPSK	1	14	23.47	23.45	23.40	
3	QPSK	8	0	22.65	22.66	22.57	23.5
3	QPSK	8	4	22.59	22.54	22.63	
3	QPSK	8	7	22.51	22.49	22.47	
3	QPSK	15	0	22.64	22.54	22.53	23.5
3	16QAM	1	0	22.70	22.75	22.66	
3	16QAM	1	8	22.66	22.73	22.59	
3	16QAM	1	14	22.63	22.64	22.56	23.5
3	16QAM	8	0	21.63	21.60	21.64	
3	16QAM	8	4	21.51	21.54	21.63	
3	16QAM	8	7	21.55	21.45	21.53	22.5
3	16QAM	15	0	21.62	21.57	21.66	
3	64QAM	1	0	21.77	21.64	21.80	
3	64QAM	1	8	21.47	21.53	21.65	22.5
3	64QAM	1	14	21.49	21.44	21.60	
3	64QAM	8	0	20.69	20.63	20.70	
3	64QAM	8	4	20.53	20.50	20.48	21.5
3	64QAM	8	7	20.51	20.42	20.44	
3	64QAM	15	0	20.58	20.59	20.60	
Channel				20407	20525	20843	24.5
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.53	23.60	23.45	24.5
1.4	QPSK	1	3	23.47	23.56	23.37	
1.4	QPSK	1	5	23.57	23.55	23.50	
1.4	QPSK	3	0	22.66	22.67	22.58	23.5
1.4	QPSK	3	1	22.60	22.55	22.64	
1.4	QPSK	3	3	22.52	22.50	22.48	
1.4	QPSK	6	0	22.65	22.55	22.54	23.5
1.4	16QAM	1	0	22.63	22.68	22.59	
1.4	16QAM	1	3	22.59	22.66	22.52	
1.4	16QAM	1	5	22.56	22.57	22.49	23.5
1.4	16QAM	3	0	21.56	21.53	21.57	
1.4	16QAM	3	1	21.44	21.47	21.56	
1.4	16QAM	3	3	21.48	21.38	21.46	22.5
1.4	16QAM	6	0	21.55	21.50	21.59	
1.4	64QAM	1	0	21.70	21.57	21.73	
1.4	64QAM	1	3	21.40	21.46	21.58	22.5
1.4	64QAM	1	5	21.42	21.37	21.53	
1.4	64QAM	3	0	20.62	20.56	20.63	
1.4	64QAM	3	1	20.46	20.43	20.41	21.5
1.4	64QAM	3	3	20.44	20.35	20.37	
1.4	64QAM	6	0	20.51	20.52	20.53	

Band 12 (700MHz Low Band) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	24.5
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.57	23.61	23.56	24.5
10	QPSK	1	25	23.51	23.56	23.54	
10	QPSK	1	49	23.50	23.52	23.58	
10	QPSK	25	0	22.81	22.82	22.70	23.5
10	QPSK	25	12	22.75	22.81	22.68	
10	QPSK	25	25	22.64	22.71	22.56	
10	QPSK	50	0	22.74	22.69	22.66	23.5
10	16QAM	1	0	22.73	22.65	22.76	
10	16QAM	1	25	22.66	22.56	22.71	
10	16QAM	1	49	22.70	22.64	22.63	22.5
10	16QAM	25	0	21.66	21.72	21.71	
10	16QAM	25	12	21.56	21.80	21.74	
10	16QAM	25	25	21.64	21.63	21.62	22.5
10	16QAM	50	0	21.68	21.74	21.65	
10	64QAM	1	0	21.64	21.65	21.78	
10	64QAM	1	25	21.84	21.58	21.64	22.5
10	64QAM	1	49	21.52	21.73	21.62	
10	64QAM	25	0	20.82	20.83	20.75	
10	64QAM	25	12	20.76	20.80	20.73	21.5
10	64QAM	25	25	20.65	20.59	20.63	
10	64QAM	50	0	20.63	20.64	20.67	
Channel				23035	23095	23155	24.5
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.54	23.58	23.53	24.5
5	QPSK	1	12	23.48	23.53	23.51	
5	QPSK	1	24	23.47	23.49	23.55	
5	QPSK	12	0	22.74	22.79	22.67	23.5
5	QPSK	12	7	22.72	22.78	22.65	
5	QPSK	12	13	22.61	22.68	22.53	
5	QPSK	25	0	22.71	22.66	22.63	23.5
5	16QAM	1	0	22.70	22.62	22.73	
5	16QAM	1	12	22.63	22.53	22.68	
5	16QAM	1	24	22.67	22.61	22.60	23.5
5	16QAM	12	0	21.63	21.69	21.68	
5	16QAM	12	7	21.53	21.77	21.71	
5	16QAM	12	13	21.61	21.60	21.59	22.5
5	16QAM	25	0	21.65	21.71	21.62	
5	64QAM	1	0	21.61	21.62	21.75	
5	64QAM	1	12	21.81	21.55	21.61	22.5
5	64QAM	1	24	21.49	21.70	21.59	
5	64QAM	12	0	20.79	20.80	20.72	
5	64QAM	12	7	20.73	20.77	20.70	21.5
5	64QAM	12	13	20.62	20.56	20.60	
5	64QAM	25	0	20.60	20.61	20.64	
Channel				23025	23095	23165	24.5
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.49	23.53	23.49	24.5
3	QPSK	1	8	23.43	23.48	23.51	
3	QPSK	1	14	23.42	23.44	23.50	
3	QPSK	8	0	22.69	22.74	22.63	23.5
3	QPSK	8	4	22.67	22.73	22.61	
3	QPSK	8	7	22.56	22.63	22.49	
3	QPSK	15	0	22.66	22.61	22.59	23.5
3	16QAM	1	0	22.65	22.57	22.69	
3	16QAM	1	8	22.58	22.48	22.64	
3	16QAM	1	14	22.62	22.56	22.56	23.5
3	16QAM	8	0	21.58	21.64	21.64	
3	16QAM	8	4	21.48	21.72	21.67	
3	16QAM	8	7	21.56	21.55	21.55	22.5
3	16QAM	15	0	21.60	21.66	21.58	
3	64QAM	1	0	21.56	21.57	21.71	
3	64QAM	1	8	21.76	21.50	21.57	22.5
3	64QAM	1	14	21.44	21.65	21.55	
3	64QAM	8	0	20.74	20.75	20.68	
3	64QAM	8	4	20.68	20.72	20.66	21.5
3	64QAM	8	7	20.57	20.51	20.56	
3	64QAM	15	0	20.55	20.56	20.60	
Channel				23017	23095	23173	

Band 25 (1900MHz Band) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	24
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	23.12	23.27	23.18	24
15	QPSK	1	49	23.26	23.22	23.19	
20	QPSK	1	99	23.00	23.06	23.15	
20	QPSK	50	0	22.31	22.40	22.39	23
20	QPSK	50	24	22.33	22.21	22.37	
20	QPSK	50	50	22.27	22.26	22.40	
20	QPSK	100	0	22.35	22.23	22.27	23
20	16QAM	1	0	22.39	22.33	22.23	
20	16QAM	1	49	22.24	22.24	22.21	
20	16QAM	1	99	22.18	22.16	22.23	22
20	16QAM	50	0	21.25	21.34	21.31	
20	16QAM	50	24	21.17	21.26	21.32	
20	16QAM	50	50	21.20	21.30	21.22	22
20	16QAM	100	0	21.16	21.35	21.24	
20	64QAM	1	0	21.34	21.23	21.28	
20	64QAM	1	49	21.30	21.18	21.23	22
20	64QAM	1	99	21.26	21.12	21.28	
20	64QAM	50	0	20.34	20.38	20.30	
20	64QAM	50	24	20.37	20.30	20.27	21
20	64QAM	50	50	20.24	20.31	20.28	
20	64QAM	100	0	20.33	20.26	20.32	
Channel				26115	26365	26615	24
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	23.01	23.17	23.08	24
15	QPSK	1	37	23.15	23.11	23.08	
15	QPSK	1	74	22.89	22.97	23.04	
15	QPSK	36	0	22.30	22.29	22.28	23
15	QPSK	36	20	22.22	22.10	22.26	
15	QPSK	36	39	22.16	22.15	22.29	
15	QPSK	75	0	22.34	22.22	22.26	23
15	16QAM	1	0	22.38	22.32	22.22	
15	16QAM	1	37	22.23	22.23	22.10	
15	16QAM	1	74	22.17	22.15	22.22	22
15	16QAM	36	0	21.24	21.33	21.30	
15	16QAM	36	20	21.16	21.25	21.31	
15	16QAM	36	39	21.19	21.29	21.21	22
15	16QAM	75	0	21.15	21.34	21.23	
15	64QAM	1	0	21.33	21.22	21.27	
15	64QAM	1	37	21.29	21.17	21.22	22
15	64QAM	1	74	21.25	21.11	21.27	
15	64QAM	36	0	20.33	20.37	20.29	
15	64QAM	36	20	20.36	20.29	20.26	21
15	64QAM	36	39	20.13	20.20	20.17	
15	64QAM	75	0	20.22	20.15	20.21	
Channel				26090	26365	26640	24
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	23.03	23.19	23.09	24
10	QPSK	1	25	23.17	23.14	23.10	
10	QPSK	1	49	22.91	23.00	23.06	
10	QPSK	25	0	22.32	22.32	22.30	23
10	QPSK	25	12	22.24	22.13	22.28	
10	QPSK	25	25	22.18	22.18	22.31	
10	QPSK	50	0	22.36	22.25	22.28	23
10	16QAM	1	0	22.40	22.35	22.24	
10	16QAM	1	25	22.25	22.26	22.12	
10	16QAM	1	49	22.19	22.18	22.24	22
10	16QAM	25	0	21.26	21.36	21.32	
10	16QAM	25	12	21.18	21.28	21.33	
10	16QAM	25	25	21.21	21.32	21.23	22
10	16QAM	50	0	21.17	21.37	21.25	
10	64QAM	1	0	21.35	21.25	21.29	
10	64QAM	1	25	21.31	21.20	21.24	22
10	64QAM	1	49	21.27	21.14	21.29	
10	64QAM	25	0	20.35	20.40	20.31	
10	64QAM	25	12	20.36	20.32	20.26	21
10	64QAM	25	25	20.15	20.23	20.19	
10	64QAM	50	0	20.24	20.18	20.23	
Channel				26065	26365	26665	24
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	23.00	23.15	23.06	24
5	QPSK	1	12	23.14	23.10	23.07	
5	QPSK	1	24	22.88	22.96	23.03	
5	QPSK	12	0	22.29	22.28	22.27	23
5	QPSK	12	7	22.21	22.09	22.25	
5	QPSK	12	13	22.15	22.14	22.28	
5	QPSK	25	0	22.33	22.21	22.25	23
5	16QAM	1	0	22.37	22.31	22.21	
5	16QAM	1	12	22.22	22.22	22.09	
5	16QAM	1	24	22.16	22.14	22.21	22
5	16QAM	12	0	21.22	21.31	21.28	
5	16QAM	12	7	21.14	21.23	21.29	
5	16QAM	12	13	21.17	21.27	21.19	22
5	16QAM	25	0	21.13	21.32	21.21	
5	64QAM	1	0	21.31	21.20	21.25	
5	64QAM	1	12	21.27	21.15	21.20	22
5	64QAM	1	24	21.23	21.09	21.25	
5	64QAM	12	0	20.31	20.35	20.27	
5	64QAM	12	7	20.34	20.27	20.24	21
5	64QAM	12	13	20.11	20.18	20.15	
5	64QAM	25	0	20.20	20.13	20.19	
Channel				26055	26365	26675	24
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	23.06	23.23	23.12	24
3	QPSK	1	8	23.20	23.18	23.13	
3	QPSK	1	14	22.94	23.04	23.09	
3	QPSK	8	0	22.35	22.36	22.33	24
3	QPSK	8	4	22.27	22.17	22.31	

Band 26 for FCC (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	24.5
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.61	23.63	23.51	24.5
15	QPSK	1	37	23.54	23.59	23.58	
15	QPSK	1	74	23.38	23.45	23.38	
15	QPSK	36	0	22.63	22.65	22.61	23.5
15	QPSK	36	20	22.60	22.58	22.60	
15	QPSK	36	39	22.51	22.54	22.53	
15	QPSK	75	0	22.48	22.55	22.59	23.5
15	16QAM	1	0	22.72	22.65	22.68	
15	16QAM	1	37	22.70	22.64	22.63	
15	16QAM	1	74	22.63	22.58	22.61	22.5
15	16QAM	36	0	21.61	21.60	21.54	
15	16QAM	36	20	21.66	21.55	21.58	
15	16QAM	36	39	21.54	21.50	21.56	22.5
15	16QAM	75	0	21.53	21.61	21.64	
15	64QAM	1	0	21.79	21.72	21.73	
15	64QAM	1	37	21.69	21.70	21.54	22.5
15	64QAM	1	74	21.64	21.63	21.63	
15	64QAM	36	0	20.61	20.63	20.58	
15	64QAM	36	20	20.66	20.63	20.54	21.5
15	64QAM	36	39	20.58	20.57	20.60	
15	64QAM	75	0	20.60	20.69	20.55	
Channel				26740	26865	26990	24.5
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.52	23.54	23.42	24.5
10	QPSK	1	25	23.45	23.50	23.49	
10	QPSK	1	49	23.29	23.36	23.29	
10	QPSK	25	0	22.54	22.56	22.52	23.5
10	QPSK	25	12	22.51	22.49	22.51	
10	QPSK	25	25	22.42	22.45	22.44	
10	QPSK	50	0	22.39	22.46	22.50	23.5
10	16QAM	1	0	22.63	22.56	22.59	
10	16QAM	1	25	22.61	22.55	22.54	
10	16QAM	1	49	22.54	22.49	22.52	22.5
10	16QAM	25	0	21.52	21.51	21.45	
10	16QAM	25	12	21.57	21.46	21.49	
10	16QAM	25	25	21.45	21.41	21.47	22.5
10	16QAM	50	0	21.44	21.52	21.55	
10	64QAM	1	0	21.70	21.63	21.64	
10	64QAM	1	25	21.60	21.61	21.45	22.5
10	64QAM	1	49	21.55	21.54	21.54	
10	64QAM	25	0	20.52	20.54	20.49	
10	64QAM	25	12	20.57	20.54	20.45	21.5
10	64QAM	25	25	20.49	20.48	20.51	
10	64QAM	50	0	20.51	20.60	20.46	
Channel				26715	26865	27015	24.5
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.45	23.58	23.35	24.5
5	QPSK	1	12	23.43	23.51	23.47	
5	QPSK	1	24	23.37	23.55	23.48	
5	QPSK	12	0	22.52	22.65	22.50	23.5
5	QPSK	12	7	22.49	22.58	22.49	
5	QPSK	12	13	22.40	22.54	22.42	
5	QPSK	25	0	22.37	22.55	22.48	23.5
5	16QAM	1	0	22.61	22.54	22.57	
5	16QAM	1	12	22.59	22.53	22.52	
5	16QAM	1	24	22.52	22.47	22.50	22.5
5	16QAM	12	0	21.50	21.49	21.43	
5	16QAM	12	7	21.55	21.44	21.47	
5	16QAM	12	13	21.43	21.39	21.45	22.5
5	16QAM	25	0	21.42	21.50	21.53	
5	64QAM	1	0	21.68	21.61	21.62	

3	QPSK	8	7	22.21	22.22	22.34	23	
3	QPSK	15	0	22.39	22.29	22.31		
3	16QAM	1	0	22.33	22.39	22.27		
3	16QAM	1	8	22.28	22.30	22.15		
3	16QAM	1	14	22.22	22.22	22.27		
3	16QAM	8	0	21.29	21.40	21.35		
3	16QAM	8	4	21.21	21.32	21.36		
3	16QAM	8	7	21.24	21.36	21.26		
3	16QAM	15	0	21.20	21.31	21.28		
3	64QAM	1	0	21.38	21.29	21.32		
3	64QAM	1	8	21.34	21.24	21.27		
3	64QAM	1	14	21.30	21.18	21.32		
3	64QAM	8	0	20.38	20.34	20.34		
3	64QAM	8	4	20.31	20.36	20.31		
3	64QAM	8	7	20.18	20.27	20.22		
3	64QAM	15	0	20.27	20.22	20.26		
Channel				26047	26365	26883	Tune-up limit (dBm)	
Frequency (MHz)				1850.7	1882.5	1914.3		
1.4	QPSK	1	0	23.11	23.26	23.17	24	
1.4	QPSK	1	3	23.21	23.17	23.14		
1.4	QPSK	1	5	22.95	23.03	23.10		
1.4	QPSK	3	0	22.36	22.35	22.34		
1.4	QPSK	3	1	22.28	22.16	22.32		
1.4	QPSK	3	3	22.22	22.21	22.35		
1.4	QPSK	6	0	22.40	22.28	22.32	23	
1.4	16QAM	1	0	22.34	22.38	22.28	22	
1.4	16QAM	1	3	22.29	22.29	22.16		
1.4	16QAM	1	5	22.23	22.21	22.28		
1.4	16QAM	3	0	21.30	21.39	21.36		
1.4	16QAM	3	1	21.22	21.31	21.37		
1.4	16QAM	3	3	21.25	21.35	21.27		
1.4	16QAM	6	0	21.21	21.40	21.29	21	
1.4	64QAM	1	0	21.39	21.28	21.33	22	
1.4	64QAM	1	3	21.35	21.23	21.28		
1.4	64QAM	1	5	21.31	21.17	21.33		
1.4	64QAM	3	0	20.39	20.33	20.35		
1.4	64QAM	3	1	20.32	20.35	20.32		
1.4	64QAM	3	3	20.19	20.26	20.23		
1.4	64QAM	6	0	20.28	20.21	20.27		21

1.4	QPSK	3	3	22.45	22.48	22.47	23.5
1.4	QPSK	6	0	22.42	22.49	22.53	
1.4	16QAM	1	0	22.66	22.59	22.62	23.5
1.4	16QAM	1	3	22.64	22.58	22.57	
1.4	16QAM	1	5	22.57	22.52	22.55	
1.4	16QAM	3	0	21.55	21.54	21.48	
1.4	16QAM	3	1	21.60	21.49	21.52	
1.4	16QAM	3	3	21.48	21.44	21.50	
1.4	16QAM	6	0	21.54	21.62	21.65	22.5
1.4	64QAM	1	0	21.80	21.73	21.74	22.5
1.4	64QAM	1	3	21.70	21.71	21.55	
1.4	64QAM	1	5	21.65	21.64	21.64	
1.4	64QAM	3	0	20.62	20.64	20.59	
1.4	64QAM	3	1	20.67	20.64	20.55	
1.4	64QAM	3	3	20.59	20.58	20.61	
1.4	64QAM	6	0	20.61	20.70	20.56	21.5

Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.93	22.95	22.89	23.5
20	QPSK	1	49	22.88	22.93	22.87	
20	QPSK	1	99	22.75	22.82	22.82	
20	QPSK	50	0	22.08	22.16	22.13	22.5
20	QPSK	50	24	22.01	22.04	22.06	
20	QPSK	50	50	21.96	22.00	22.13	
20	QPSK	100	0	22.03	21.95	22.08	22.5
20	16QAM	1	0	22.15	22.21	21.98	
20	16QAM	1	49	22.04	22.11	21.95	
20	16QAM	1	99	21.87	22.03	22.01	21.5
20	16QAM	50	0	21.17	21.13	21.17	
20	16QAM	50	24	21.00	20.97	21.13	
20	16QAM	50	50	21.02	20.86	21.04	21.5
20	16QAM	100	0	21.12	21.02	21.16	
20	64QAM	1	0	21.30	21.28	21.26	
20	64QAM	1	49	21.23	21.14	21.14	21.5
20	64QAM	1	99	21.18	21.31	21.16	
20	64QAM	50	0	20.03	20.19	20.30	
20	64QAM	50	24	20.21	20.04	20.11	20.5
20	64QAM	50	50	20.10	20.01	20.04	
20	64QAM	100	0	20.13	20.10	20.08	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.83	22.84	22.79	23.5
15	QPSK	1	37	22.78	22.82	22.77	
15	QPSK	1	74	22.65	22.71	22.72	
15	QPSK	36	0	21.98	22.05	22.03	22.5
15	QPSK	36	20	21.91	21.93	21.96	
15	QPSK	36	39	21.86	21.89	22.03	
15	QPSK	75	0	21.93	21.84	21.98	22.5
15	16QAM	1	0	22.05	22.10	21.88	
15	16QAM	1	37	21.94	22.00	21.85	
15	16QAM	1	74	21.77	21.92	21.91	21.5
15	16QAM	36	0	21.07	21.02	21.07	
15	16QAM	36	20	20.90	20.86	21.03	
15	16QAM	36	39	20.92	20.75	20.94	21.5
15	16QAM	75	0	21.02	20.91	21.06	
15	64QAM	1	0	21.20	21.17	21.16	
15	64QAM	1	37	21.13	21.03	21.04	21.5
15	64QAM	1	74	21.08	21.20	21.06	
15	64QAM	36	0	19.93	20.08	20.20	
15	64QAM	36	20	20.11	19.93	20.01	20.5
15	64QAM	36	39	20.00	19.90	19.94	
15	64QAM	75	0	20.03	19.99	19.98	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.84	22.87	22.80	23.5
10	QPSK	1	25	22.79	22.85	22.78	
10	QPSK	1	49	22.66	22.74	22.73	
10	QPSK	25	0	21.99	22.08	22.04	22.5
10	QPSK	25	12	21.92	21.96	21.97	
10	QPSK	25	25	21.87	21.92	22.04	
10	QPSK	50	0	21.94	21.87	21.99	22.5
10	16QAM	1	0	22.06	22.13	21.89	
10	16QAM	1	25	21.95	22.03	21.86	
10	16QAM	1	49	21.78	21.95	21.92	21.5
10	16QAM	25	0	21.08	21.05	21.08	
10	16QAM	25	12	20.91	20.89	21.04	
10	16QAM	25	25	20.93	20.78	20.95	21.5
10	16QAM	50	0	21.03	20.94	21.07	
10	64QAM	1	0	21.21	21.20	21.17	
10	64QAM	1	25	21.14	21.06	21.05	21.5
10	64QAM	1	49	21.09	21.23	21.07	
10	64QAM	25	0	19.94	20.11	20.21	
10	64QAM	25	12	20.12	19.96	20.02	20.5
10	64QAM	25	25	20.01	19.93	19.95	
10	64QAM	50	0	20.04	20.02	19.99	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.79	22.82	22.74	23.5
5	QPSK	1	12	22.74	22.80	22.72	
5	QPSK	1	24	22.61	22.69	22.67	
5	QPSK	12	0	21.94	22.03	21.98	22.5
5	QPSK	12	7	21.87	21.91	21.91	
5	QPSK	12	13	21.82	21.87	21.98	
5	QPSK	25	0	21.89	21.82	21.93	22.5
5	16QAM	1	0	22.01	22.08	21.83	
5	16QAM	1	12	21.90	21.98	21.80	
5	16QAM	1	24	21.73	21.90	21.86	21.5
5	16QAM	12	0	21.03	21.00	21.02	
5	16QAM	12	7	20.86	20.84	20.98	
5	16QAM	12	13	20.88	20.73	20.89	21.5
5	16QAM	25	0	20.98	20.89	21.01	
5	64QAM	1	0	21.16	21.15	21.11	
5	64QAM	1	12	21.09	21.01	20.99	21.5
5	64QAM	1	24	21.04	21.18	21.01	
5	64QAM	12	0	19.89	20.06	20.15	
5	64QAM	12	7	20.07	19.91	19.96	20.5
5	64QAM	12	13	19.96	19.88	19.89	
5	64QAM	25	0	19.99	19.97	19.93	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.86	22.89	22.84	23.5
3	QPSK	1	8	22.81	22.87	22.82	
3	QPSK	1	14	22.68	22.76	22.77	
3	QPSK	8	0	22.01	22.10	22.08	20.5
3	QPSK	8	4	21.94	21.98	22.01	

Band 71							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	Tune-up limit (dBm)
Frequency (MHz)				673	683	688	
20	QPSK	1	0	23.64	23.68	23.59	24.5
20	QPSK	1	49	23.62	23.67	23.54	
20	QPSK	1	99	23.51	23.52	23.51	
20	QPSK	50	0	22.76	22.92	22.81	23.5
20	QPSK	50	24	22.64	22.87	22.83	
20	QPSK	50	50	22.81	22.74	22.66	
20	QPSK	100	0	22.73	22.86	22.73	23.5
20	16QAM	1	0	22.77	22.84	22.58	
20	16QAM	1	49	22.73	22.85	22.52	
20	16QAM	1	99	22.64	22.61	22.53	22.5
20	16QAM	50	0	21.78	21.89	21.87	
20	16QAM	50	24	21.69	21.65	21.74	
20	16QAM	50	50	21.84	21.63	21.65	22.5
20	16QAM	100	0	21.80	21.70	21.64	
20	64QAM	1	0	21.95	21.77	21.85	
20	64QAM	1	49	21.67	21.71	21.62	22.5
20	64QAM	1	99	21.68	21.62	21.70	
20	64QAM	50	0	20.74	20.83	20.90	
20	64QAM	50	24	20.60	20.83	20.77	21.5
20	64QAM	50	50	20.71	20.74	20.65	
20	64QAM	100	0	21.00	20.65	20.82	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.60	23.65	23.55	24.5
15	QPSK	1	37	23.58	23.64	23.52	
15	QPSK	1	74	23.60	23.59	23.57	
15	QPSK	36	0	22.72	22.89	22.77	23.5
15	QPSK	36	20	22.60	22.84	22.79	
15	QPSK	36	39	22.77	22.71	22.62	
15	QPSK	75	0	22.69	22.83	22.69	23.5
15	16QAM	1	0	22.73	22.81	22.54	
15	16QAM	1	37	22.69	22.82	22.68	
15	16QAM	1	74	22.60	22.58	22.64	22.5
15	16QAM	36	0	21.74	21.86	21.83	
15	16QAM	36	20	21.65	21.62	21.70	
15	16QAM	36	39	21.80	21.60	21.61	22.5
15	16QAM	75	0	21.76	21.67	21.60	
15	64QAM	1	0	21.91	21.74	21.81	
15	64QAM	1	37	21.63	21.68	21.58	22.5
15	64QAM	1	74	21.64	21.59	21.66	
15	64QAM	36	0	20.70	20.80	20.86	
15	64QAM	36	20	20.56	20.80	20.73	21.5
15	64QAM	36	39	20.67	20.71	20.61	
15	64QAM	75	0	20.96	20.62	20.78	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	23.56	23.62	23.53	24.5
10	QPSK	1	25	23.54	23.61	23.58	
10	QPSK	1	49	23.53	23.56	23.55	
10	QPSK	25	0	22.68	22.86	22.75	23.5
10	QPSK	25	12	22.56	22.81	22.77	
10	QPSK	25	25	22.73	22.68	22.60	
10	QPSK	50	0	22.65	22.80	22.67	23.5
10	16QAM	1	0	22.69	22.78	22.52	
10	16QAM	1	25	22.65	22.79	22.56	
10	16QAM	1	49	22.56	22.55	22.57	22.5
10	16QAM	25	0	21.70	21.83	21.81	
10	16QAM	25	12	21.61	21.59	21.68	
10	16QAM	25	25	21.76	21.57	21.59	22.5
10	16QAM	50	0	21.72	21.		



3	QPSK	8	7	21.89	21.94	22.08	22.5
3	QPSK	15	0	21.96	21.89	22.03	
3	16QAM	1	0	22.08	22.15	21.93	22.5
3	16QAM	1	8	21.97	22.05	21.90	
3	16QAM	1	14	21.80	21.97	21.96	21.5
3	16QAM	8	0	21.10	21.07	21.12	
3	16QAM	8	4	20.93	20.91	21.08	21.5
3	16QAM	8	7	20.95	20.80	20.99	
3	16QAM	15	0	21.05	20.96	21.11	21.5
3	64QAM	1	0	21.23	21.22	21.21	
3	64QAM	1	8	21.16	21.08	21.09	21.5
3	64QAM	1	14	21.11	21.25	21.11	
3	64QAM	8	0	19.96	20.13	20.25	20.5
3	64QAM	8	4	20.14	19.98	20.06	
3	64QAM	8	7	20.03	19.95	19.99	20.5
3	64QAM	15	0	20.06	20.04	20.03	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.90	22.94	22.85	23.5
1.4	QPSK	1	3	22.85	22.92	22.83	
1.4	QPSK	1	5	22.72	22.81	22.78	
1.4	QPSK	3	0	22.05	22.15	22.09	
1.4	QPSK	3	1	21.98	22.03	22.02	
1.4	QPSK	3	3	21.93	21.99	22.09	
1.4	QPSK	6	0	22.00	21.94	22.04	22.5
1.4	16QAM	1	0	22.12	22.20	21.94	22.5
1.4	16QAM	1	3	22.01	22.10	21.91	
1.4	16QAM	1	5	21.84	22.02	21.97	
1.4	16QAM	3	0	21.14	21.12	21.13	
1.4	16QAM	3	1	20.97	20.96	21.09	
1.4	16QAM	3	3	20.99	20.85	21.00	
1.4	16QAM	6	0	21.09	21.01	21.12	21.5
1.4	64QAM	1	0	21.27	21.27	21.22	21.5
1.4	64QAM	1	3	21.20	21.13	21.10	
1.4	64QAM	1	5	21.15	21.30	21.12	
1.4	64QAM	3	0	20.00	20.18	20.26	
1.4	64QAM	3	1	20.18	20.03	20.07	
1.4	64QAM	3	3	20.07	20.00	20.00	
1.4	64QAM	6	0	20.10	20.09	20.04	20.5

## Band 41 (2496~2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.26	25.28	25.33	25.22	25.22	26
20	QPSK	1	49	25.21	25.24	25.30	25.27	25.17	
20	QPSK	1	99	25.19	25.20	25.12	25.10	25.06	
20	QPSK	50	0	24.29	24.44	24.45	24.36	24.38	25
20	QPSK	50	24	24.31	24.27	24.35	24.31	24.32	
20	QPSK	50	50	24.20	24.36	24.25	24.29	24.25	
20	QPSK	100	0	24.42	24.41	24.42	24.38	24.41	25
20	16QAM	1	0	24.46	24.41	24.46	24.40	24.35	
20	16QAM	1	49	24.40	24.41	24.45	24.41	24.31	
20	16QAM	1	99	24.32	24.33	24.32	24.32	24.30	24
20	16QAM	50	0	23.31	23.51	23.41	23.35	23.39	
20	16QAM	50	24	23.30	23.21	23.40	23.22	23.31	
20	16QAM	50	50	23.25	23.27	23.27	23.21	23.26	24
20	16QAM	100	0	23.41	23.50	23.29	23.37	23.34	
20	64QAM	1	0	23.36	23.44	23.28	23.21	23.26	
20	64QAM	1	49	23.25	23.36	23.30	23.24	23.21	24
20	64QAM	1	99	23.24	23.27	23.22	23.20	23.17	
20	64QAM	50	0	22.31	22.51	22.36	22.34	22.41	
20	64QAM	50	24	22.28	22.42	22.29	22.31	22.35	23
20	64QAM	50	50	22.14	22.37	22.38	22.18	22.29	
20	64QAM	100	0	22.42	22.41	22.31	22.35	22.36	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.20	25.23	25.31	25.17	25.16	26
15	QPSK	1	37	25.15	25.19	25.19	25.22	25.11	
15	QPSK	1	74	25.13	25.15	25.09	25.05	25.00	
15	QPSK	36	0	24.23	24.39	24.42	24.31	24.32	25
15	QPSK	36	20	24.25	24.22	24.32	24.26	24.26	
15	QPSK	36	39	24.14	24.31	24.22	24.24	24.19	
15	QPSK	75	0	24.36	24.36	24.39	24.33	24.35	25
15	16QAM	1	0	24.40	24.36	24.43	24.35	24.29	
15	16QAM	1	37	24.34	24.36	24.42	24.36	24.25	
15	16QAM	1	74	24.26	24.28	24.29	24.27	24.24	24
15	16QAM	36	0	23.25	23.46	23.38	23.30	23.33	
15	16QAM	36	20	23.24	23.16	23.37	23.17	23.25	
15	16QAM	36	39	23.19	23.22	23.24	23.16	23.20	24
15	16QAM	75	0	23.35	23.45	23.26	23.32	23.28	
15	64QAM	1	0	23.30	23.39	23.25	23.16	23.20	
15	64QAM	1	37	23.19	23.31	23.27	23.19	23.15	24
15	64QAM	1	74	23.18	23.22	23.19	23.15	23.11	
15	64QAM	36	0	22.25	22.46	22.33	22.29	22.35	
15	64QAM	36	20	22.22	22.37	22.26	22.26	22.29	23
15	64QAM	36	39	22.08	22.32	22.35	22.18	22.23	
15	64QAM	75	0	22.36	22.36	22.31	22.35	22.30	
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.18	25.20	25.25	25.13	25.13	26
10	QPSK	1	25	25.13	25.16	25.21	25.18	25.08	
10	QPSK	1	49	25.11	25.12	25.10	25.01	24.97	
10	QPSK	25	0	24.21	24.36	24.43	24.27	24.29	25
10	QPSK	25	12	24.23	24.19	24.33	24.22	24.23	
10	QPSK	25	25	24.12	24.28	24.23	24.20	24.16	
10	QPSK	50	0	24.34	24.33	24.40	24.29	24.32	25
10	16QAM	1	0	24.38	24.33	24.44	24.31	24.26	
10	16QAM	1	25	24.32	24.33	24.43	24.32	24.22	
10	16QAM	1	49	24.24	24.25	24.30	24.23	24.21	24
10	16QAM	25	0	23.23	23.43	23.39	23.26	23.30	
10	16QAM	25	12	23.22	23.13	23.38	23.13	23.22	
10	16QAM	25	25	23.17	23.19	23.25	23.12	23.17	24
10	16QAM	50	0	23.33	23.42	23.27	23.28	23.25	
10	64QAM	1	0	23.28	23.36	23.26	23.12	23.17	
10	64QAM	1	37	23.17	23.28	23.28	23.15	23.12	23
10	64QAM	1	74	23.16	23.19	23.20	23.11	23.08	
10	64QAM	36	0	22.23	22.43	22.34	22.25	22.32	
10	64QAM	36	20	22.20	22.34	22.27	22.22	22.26	22
10	64QAM	36	39	22.06	22.29	22.36	22.09	22.20	
10	64QAM	75	0	22.34	22.33	22.31	22.35	22.32	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.19	25.21	25.22	25.11	25.11	26
5	QPSK	1	12	25.10	25.17	25.21	25.16	25.10	
5	QPSK	1	24	25.08	25.13	25.08	24.99	24.99	
5	QPSK	12	0	24.18	24.37	24.41	24.25	24.31	25
5	QPSK	12	7	24.20	24.20	24.31	24.20	24.25	
5	QPSK	12	13	24.09	24.29	24.21	24.18	24.18	
5	QPSK	25	0	24.31	24.34	24.38	24.27	24.34	25
5	16QAM	1	0	24.35	24.34	24.42	24.29	24.28	
5	16QAM	1	12	24.29	24.34	24.41	24.30	24.24	
5	16QAM	1	24	24.21	24.26	24.28	24.21	24.23	24
5	16QAM	12	0	23.20	23.44	23.37	23.24	23.32	
5	16QAM	12	7	23.19	23.14	23.36	23.11	23.24	
5	16QAM	12	13	23.14	23.20	23.23	23.10	23.19	24
5	16QAM	25	0	23.30	23.43	23.25	23.26	23.27	
5	64QAM	1	0	23.25	23.37	23.24	23.10	23.19	
5	64QAM	1	12	23.14	23.29	23.26	23.13	23.14	24
5	64QAM	1	24	23.13	23.20	23.18	23.09	23.10	
5	64QAM	12	0	22.20	22.44	22.32	22.23	22.34	
5	64QAM	12	7	22.17	22.35	22.25	22.20	22.28	23
5	64QAM	12	13	22.03	22.30	22.34	22.07	22.22	
5	64QAM	25	0	22.31	22.34	22.27	22.24	22.29	

**2.4GHz WLAN ANT 1**

Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-Up Limit	Power Setting	Duty Cycle %
			1Mbps	3Mbps			
802.11b 1Mbps	CH 1	2412	17.71	18.50	20.00	100.00	
	CH 6	2437	17.93	18.50	20.00		
	CH 11	2462	17.70	18.50	20.00		
802.11g 6Mbps	CH 1	2412	14.43	15.00	17.00	96.86	
	CH 6	2437	14.71	15.50	17.00		
	CH 11	2462	14.57	15.00	17.00		
802.11n-HT20 MCS0	CH 1	2412	13.34	14.00	16.00	96.28	
	CH 6	2437	13.70	14.50	16.00		
	CH 11	2462	13.42	14.00	16.00		
802.11n-HT40 MCS0	CH 3	2422	11.70	12.50	14.00	90.85	
	CH 6	2437	11.94	12.50	14.00		
	CH 9	2452	11.87	12.50	14.00		

**5GHz WLAN ANT 1**

Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-Up Limit	Power Setting	Duty Cycle %
			1Mbps	3Mbps			
802.11a 6Mbps	CH 36	5180	15.68	16.50	18.00	96.53	
	CH 44	5220	15.93	16.50	18.00		
	CH 48	5240	15.72	16.50	18.00		
802.11n-HT20 MCS0	CH 36	5180	15.23	16.00	18.00	96.28	
	CH 44	5220	15.01	16.00	18.00		
	CH 48	5240	15.00	16.00	18.00		
802.11n-HT40 MCS0	CH 36	5180	12.63	13.50	18.00	89.29	
	CH 46	5230	12.91	13.50	18.00		
802.11ac-VHT20 MCS0	CH 36	5180	11.36	12.00	14.00	96.68	
	CH 44	5220	11.42	12.00	14.00		
	CH 48	5240	11.36	12.00	14.00		
802.11ac-VHT40 MCS0	CH 36	5190	11.27	12.00	14.00	87.86	
	CH 46	5230	11.41	12.00	14.00		
802.11ac-VHT80 MCS0	CH 42	5210	11.02	11.50	14.00	87.84	

**5GHz WLAN ANT 1**

Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-Up Limit	Power Setting	Duty Cycle %
			1Mbps	3Mbps			
802.11a 6Mbps	CH 52	5260	15.62	16.00	18.00	96.53	
	CH 60	5300	15.49	16.00	18.00		
	CH 64	5320	15.68	16.00	18.00		
802.11n-HT20 MCS0	CH 52	5260	14.97	15.50	18.00	96.28	
	CH 60	5300	14.90	15.50	18.00		
	CH 64	5320	14.89	15.50	18.00		
802.11n-HT40 MCS0	CH 54	5270	13.11	14.00	18.00	89.29	
	CH 62	5310	13.19	14.00	18.00		
802.11ac-VHT20 MCS0	CH 52	5260	11.25	11.50	14.00	96.68	
	CH 60	5300	11.50	12.00	14.00		
	CH 64	5320	11.37	12.00	14.00		
802.11ac-VHT40 MCS0	CH 54	5270	11.34	12.00	14.00	87.86	
	CH 62	5310	11.19	11.50	14.00		
802.11ac-VHT80 MCS0	CH 58	5290	11.18	11.50	14.00	87.84	

**5GHz WLAN ANT 1**

Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-Up Limit	Power Setting	Duty Cycle %
			1Mbps	3Mbps			
802.11a 6Mbps	CH 100	5500	14.83	15.50	18.00	96.53	
	CH 120	5600	14.82	15.50	18.00		
	CH 144	5720	15.07	15.50	18.00		
802.11n-HT20 MCS0	CH 100	5500	14.84	15.50	18.00	96.28	
	CH 120	5600	14.70	15.50	18.00		
	CH 144	5720	14.34	15.00	18.00		
802.11n-HT40 MCS0	CH 102	5510	14.49	15.00	18.00	89.29	
	CH 126	5630	14.19	14.50	18.00		
	CH 142	5710	14.14	14.50	18.00		
802.11ac-VHT20 MCS0	CH 100	5500	11.08	11.50	14.00	96.68	
	CH 120	5600	11.44	12.00	14.00		
	CH 144	5720	11.58	12.00	14.00		
802.11ac-VHT40 MCS0	CH 102	5510	11.08	11.50	14.00	87.86	
	CH 126	5630	11.33	12.00	14.00		
	CH 142	5710	10.99	11.50	14.00		
802.11ac-VHT80 MCS0	CH 106	5530	11.54	12.00	14.00	87.84	
	CH 122	5610	11.24	12.00	14.00		
	CH 138	5690	11.59	12.00	14.00		

**5GHz WLAN ANT 1**

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-Up Limit	Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps			
802.11a MCS0	CH 149	5745	14.90	15.50	18.00	96.53		
	CH 157	5785	14.52	15.00	18.00			
	CH 165	5825	14.24	15.00	18.00			
802.11n-HT20 MCS0	CH 149	5745	14.33	15.00	18.00	96.28		
	CH 157	5785	13.80	14.50	18.00			
	CH 165	5825	13.60	14.50	18.00			
802.11n-HT40 MCS0	CH 151	5795	13.73	14.50	18.00	89.29		
	CH 159	5795	14.05	14.50	18.00			
802.11ac-VHT20 MCS0	CH 149	5745	11.29	11.50	14.00	96.68		
	CH 157	5785	11.44	12.00	14.00			
	CH 165	5825	11.58	12.00	14.00			
802.11ac-VHT40 MCS0	CH 151	5795	10.87	11.50	14.00	87.86		
	CH 159	5795	10.59	11.50	14.00			
802.11ac-VHT80 MCS0	CH 155	5775	11.14	11.50	14.00	87.84		

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	8.70	5.35	5.40
	CH 39	2441	8.15	5.10	5.11
	CH 76	2480	7.54	5.78	5.95
Tune-up Limit			9.5	6.5	6.5
Duty Cycle %			76.53	76.8	76.8

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	-5.07	-8.75
	CH 19	2440	-4.39	-8.53
	CH 39	2480	-4.87	-8.55
Tune-up Limit			0.50	0.50
Duty Cycle %			60.80	31.20

Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band	CA_2C	2	20	18801	1870.1	QPSK/1#0	2	20	18999	1889.9	22.98	23.28
	CA_2A-12A	2	20	18700	1860	QPSK/1#0	12	5	23035	701.5	22.97	23.28
	CA_2A-71A	2	20	18700	1860	QPSK/1#0	71	20	68786	637	22.95	23.28
	CA_2A-2A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	23.03	23.28
	CA_2A-4A	2	20	18700	1860	QPSK/1#0	4	20	20300	1745	23.06	23.28
	CA_2A-66A	2	20	18700	1860	QPSK/1#0	66	20	67236	2190	23.04	23.28
	CA_2A-5A	2	20	18700	1860	QPSK/1#0	5	10	20450	829	23.02	23.28
	CA_4A-12A	4	20	20050	1720	QPSK/1#0	12	5	23035	701.5	22.82	22.87
	CA_4A-71A	4	20	20050	1720	QPSK/1#0	71	20	68786	782	22.77	22.87
	CA_4A-5A	4	20	20050	1720	QPSK/1#0	5	10	20450	829	22.81	22.87
	CA_4A-4A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	22.80	22.87
	CA_5A-66A	5	10	20450	829	QPSK/1#0	66	20	67236	2190	23.52	23.74
	CA_41C	41	20	40521	2583.1	QPSK/1#0	41	20	40719	2602.9	25.25	25.33
	CA_25A-26A	25	20	26140	1860	QPSK/1#0	26	15	26765	821.5	23.12	23.27
	CA_12A-66A	12	5	23035	701.5	QPSK/1#0	66	20	67236	2190	23.39	23.61
	CA_25A-25A	25	20	26140	1860	QPSK/1#0	25	20	26590	1905	23.05	23.27
	CA_25A-41A	25	20	26140	1860	QPSK/1#0	41	20	41490	2680	23.09	23.27
	CA_41A-41A	41	20	39750	2506	QPSK/1#0	41	20	41490	2680	25.24	25.33
	CA_66A-71A	66	20	132072	1720	QPSK/1#0	71	20	68786	782	22.85	22.95
	CA_66A-66A	66	20	132072	1720	QPSK/1#0	66	20	132572	1770	22.87	22.95
CA_66B	66	10	132523	1765.1	QPSK/1#0	66	10	132622	1775	22.89	22.95	
CA_66C	66	20	132572	1770	QPSK/1#0	66	20	67234	2189.8	22.86	22.95	

### Reduced Power

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		
	1850.2	1880	1909.8		1850.2	1880	1909.8		
TX Channel	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	27.16	27.12	27.01	27.50	18.16	18.12	18.01	18.50	0.34
GPRS 1 Tx slot	26.94	26.90	26.82	27.50	17.94	17.90	17.82	18.50	
GPRS 2 Tx slots	26.01	26.02	25.94	26.50	20.01	20.02	19.94	20.50	0.08
GPRS 3 Tx slots	24.05	24.04	23.98	24.50	19.79	19.78	19.72	20.24	0.07
GPRS 4 Tx slots	22.93	22.95	22.91	23.50	19.93	19.95	19.91	20.50	0.04
EDGE 1 Tx slot	23.04	23.09	23.01	23.50	14.04	14.09	14.01	14.50	0.08
EDGE 2 Tx slots	21.44	21.63	21.57	22.50	15.44	15.63	15.57	16.50	0.19
EDGE 3 Tx slots	19.68	19.73	19.74	20.50	15.42	15.47	15.48	16.24	0.06
EDGE 4 Tx slots	18.61	19.00	18.78	19.50	15.61	16.00	15.78	16.50	0.39
Mode		Max.	27.16			Max.	20.02		
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		
	9662	9800	9938		1537	1638	1738		
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	19.99	20.02	20.00	20.50	20.00	20.01	19.98	20.50
3GPP Rel 6	HSDPA Subtest-1	19.14	19.14	19.12	19.50	18.90	18.97	19.01	19.50
3GPP Rel 6	HSDPA Subtest-2	19.09	19.12	19.13	19.50	18.95	18.96	19.02	19.50
3GPP Rel 6	HSDPA Subtest-3	18.61	18.60	18.63	19.00	18.48	18.46	18.48	19.00
3GPP Rel 6	HSDPA Subtest-4	18.55	18.63	18.58	19.00	18.50	18.42	18.49	19.00
3GPP Rel 6	HSUPA Subtest-1	19.10	18.66	18.62	19.50	18.45	18.50	18.48	19.00
3GPP Rel 6	HSUPA Subtest-2	19.06	19.12	19.17	19.50	18.98	19.02	18.95	19.50
3GPP Rel 6	HSUPA Subtest-3	18.12	18.13	18.09	18.50	17.96	17.98	17.99	18.50
3GPP Rel 6	HSUPA Subtest-4	19.15	19.19	19.20	19.50	18.93	18.98	18.96	19.50
3GPP Rel 6	HSUPA Subtest-5	18.10	18.13	18.10	18.50	17.92	17.92	17.94	18.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.08	18.13	18.12	18.50	17.99	17.95	17.99	18.50
Attenuator		Cable Loss	0.8			Cable Loss	0.8		
Mode		Max.	20.02			Max.	20.01		

Band 2 (1900MHz Band) 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	20.54	20.55	20.48	
20	QPSK	1	49	20.48	20.48	20.51	21
20	QPSK	1	99	20.35	20.45	20.33	
20	QPSK	50	0	19.52	19.67	19.51	
20	QPSK	50	24	19.41	19.56	19.34	20
20	QPSK	50	50	19.33	19.45	19.48	
20	QPSK	100	0	19.62	19.64	19.44	
20	16QAM	1	0	19.48	19.67	19.66	20
20	16QAM	1	49	19.50	19.63	19.67	
20	16QAM	1	99	19.58	19.49	19.51	
20	16QAM	50	0	18.60	18.66	18.67	19
20	16QAM	50	24	18.52	18.62	18.60	
20	16QAM	50	50	18.49	18.63	18.48	
20	16QAM	100	0	18.54	18.52	18.53	19
20	64QAM	1	0	18.55	18.50	18.58	
20	64QAM	1	49	18.65	18.50	18.51	
20	64QAM	1	99	18.61	18.65	18.59	18
20	64QAM	50	0	17.62	17.50	17.63	
20	64QAM	50	24	17.48	17.67	17.64	
20	64QAM	50	50	17.43	17.56	17.48	18
20	64QAM	100	0	17.58	17.54	17.56	
Channel				18675	18800	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	20.36	20.37	20.29	
15	QPSK	1	37	20.30	20.30	20.32	
15	QPSK	1	74	20.17	20.27	20.14	21
15	QPSK	36	0	19.44	19.64	19.42	
15	QPSK	36	20	19.33	19.48	19.25	
15	QPSK	36	39	19.25	19.37	19.39	20
15	QPSK	75	0	19.54	19.56	19.35	
15	16QAM	1	0	19.60	19.59	19.57	
15	16QAM	1	37	19.62	19.55	19.58	20
15	16QAM	1	74	19.50	19.61	19.62	
15	16QAM	36	0	18.52	18.58	18.58	
15	16QAM	36	20	18.44	18.54	18.51	19
15	16QAM	36	39	18.41	18.55	18.59	
15	16QAM	75	0	18.46	18.44	18.44	
15	64QAM	1	0	18.67	18.62	18.49	19
15	64QAM	1	37	18.57	18.62	18.62	
15	64QAM	1	74	18.53	18.57	18.50	
15	64QAM	36	0	17.54	17.62	17.54	18
15	64QAM	36	20	17.40	17.59	17.55	
15	64QAM	36	39	17.35	17.48	17.59	
15	64QAM	75	0	17.50	17.46	17.47	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	20.37	20.39	20.31	
10	QPSK	1	25	20.31	20.32	20.34	
10	QPSK	1	49	20.18	20.29	20.16	21
10	QPSK	25	0	19.45	19.66	19.44	
10	QPSK	25	12	19.34	19.50	19.27	
10	QPSK	25	25	19.26	19.39	19.41	20
10	QPSK	50	0	19.55	19.58	19.37	
10	16QAM	1	0	19.61	19.61	19.59	
10	16QAM	1	25	19.63	19.57	19.60	20
10	16QAM	1	49	19.51	19.63	19.64	
10	16QAM	25	0	18.53	18.60	18.60	
10	16QAM	25	12	18.45	18.56	18.53	19
10	16QAM	25	25	18.42	18.57	18.61	
10	16QAM	50	0	18.47	18.46	18.46	
10	64QAM	1	0	18.48	18.64	18.51	19
10	64QAM	1	25	18.58	18.60	18.64	
10	64QAM	1	49	18.54	18.59	18.52	
10	64QAM	25	0	17.55	17.64	17.56	18
10	64QAM	25	12	17.41	17.61	17.57	
10	64QAM	25	25	17.36	17.50	17.61	
10	64QAM	50	0	17.51	17.48	17.49	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.34	20.36	20.28	
5	QPSK	1	12	20.28	20.29	20.31	
5	QPSK	1	24	20.15	20.26	20.13	21
5	QPSK	12	0	19.42	19.63	19.41	
5	QPSK	12	7	19.31	19.47	19.24	
5	QPSK	12	13	19.23	19.36	19.38	20
5	QPSK	25	0	19.52	19.55	19.34	
5	16QAM	1	0	19.58	19.58	19.56	
5	16QAM	1	12	19.60	19.54	19.57	20
5	16QAM	1	24	19.48	19.60	19.61	
5	16QAM	12	0	18.50	18.57	18.57	
5	16QAM	12	7	18.42	18.53	18.50	19
5	16QAM	12	13	18.39	18.54	18.58	
5	16QAM	25	0	18.44	18.43	18.43	
5	64QAM	1	0	18.65	18.61	18.48	19
5	64QAM	1	12	18.55	18.61	18.61	
5	64QAM	1	24	18.51	18.56	18.49	
5	64QAM	12	0	17.52	17.61	17.53	18
5	64QAM	12	7	17.38	17.58	17.54	
5	64QAM	12	13	17.33	17.47	17.58	
5	64QAM	25	0	17.48	17.45	17.46	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	20.39	20.41	20.33	
3	QPSK	1	8	20.33	20.34	20.36	
3	QPSK	1	14	20.20	20.31	20.18	21
3	QPSK	8	0	19.47	19.67	19.46	
3	QPSK	8	4	19.36	19.52	19.29	
3	QPSK	8	7	19.28	19.41	19.43	20

Band 4 (AWS Band) 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	19.26	19.31	19.24	
20	QPSK	1	49	19.30	19.28	19.25	20
20	QPSK	1	99	19.16	19.21	19.14	
20	QPSK	50	0	18.17	18.55	18.50	
20	QPSK	50	24	18.42	18.39	18.38	19
20	QPSK	50	50	18.47	18.33	18.50	
20	QPSK	100	0	18.49	18.45	18.52	
20	16QAM	1	0	18.63	18.50	18.41	19
20	16QAM	1	49	18.45	18.60	18.43	
20	16QAM	1	99	18.57	18.47	18.74	
20	16QAM	50	0	17.48	17.50	17.43	18.5
20	16QAM	50	24	17.45	17.54	17.50	
20	16QAM	50	50	17.56	17.38	17.64	
20	16QAM	100	0	17.38	17.31	17.44	18.5
20	64QAM	1	0	17.46	17.55	17.71	
20	64QAM	1	49	17.65	17.49	17.32	
20	64QAM	1	99	17.47	17.40	17.52	17
20	64QAM	50	0	16.40	16.51	16.56	
20	64QAM	50	24	16.44	16.45	16.58	
20	64QAM	50	50	16.54	16.57	16.54	17
20	64QAM	100	0	16.47	16.64	16.35	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.20	19.26	19.18	
15	QPSK	1	37	19.24	19.23	19.19	
15	QPSK	1	74	19.10	19.16	19.08	20
15	QPSK	36	0	18.11	18.50	18.44	
15	QPSK	36	20	18.36	18.34	18.32	
15	QPSK	36	39	18.41	18.28	18.44	19
15	QPSK	75	0	18.43	18.40	18.49	
15	16QAM	1	0	18.57	18.45	18.35	
15	16QAM	1	37	18.39	18.55	18.37	19
15	16QAM	1	74	18.51	18.42	18.68	
15	16QAM	36	0	17.42	17.45	17.37	
15	16QAM	36	20	17.39	17.49	17.44	18.5
15	16QAM	36	39	17.50	17.33	17.58	
15	16QAM	75	0	17.32	17.26	17.38	
15	64QAM	1	0	17.40	17.50	17.65	18.5
15	64QAM	1	37	17.59	17.44	17.26	
15	64QAM	1	74	17.41	17.35	17.46	
15	64QAM	36	0	16.34	16.46	16.50	17
15	64QAM	36	20	16.38	16.40	16.52	
15	64QAM	36	39	16.48	16.52	16.48	
15	64QAM	75	0	16.41	16.59	16.29	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.25	19.30	19.23	
10	QPSK	1	25	19.29	19.27	19.24	
10	QPSK	1	49	19.15	19.20	19.13	20
10	QPSK	25	0	18.16	18.54	18.49	
10	QPSK	25	12	18.41	18.38	18.37	
10	QPSK	25	25	18.46	18.32	18.49	19
10	QPSK	50	0	18.48	18.44	18.51	
10	16QAM	1	0	18.62	18.49	18.40	
10	16QAM	1	25	18.44	18.59	18.42	19
10	16QAM	1	49	18.56	18.46	18.73	
10	16QAM	25	0	17.47	17.49	17.42	
10	16QAM	25	12	17.44	17.53	17.49	18.5
10	16QAM	25	25	17.55	17.37	17.63	
10	16QAM	50	0	17.37	17.30	17.43	
10	64QAM	1	0	17.43	17.52	17.68	

3	QPSK	15	0	19.57	19.60	19.39	20
3	16QAM	1	0	19.63	19.63	19.61	
3	16QAM	1	8	19.65	19.59	19.62	
3	16QAM	1	14	19.53	19.65	19.66	19
3	16QAM	8	0	18.55	18.62	18.62	
3	16QAM	8	4	18.47	18.58	18.55	
3	16QAM	8	7	18.44	18.59	18.63	19
3	16QAM	15	0	18.49	18.48	18.48	
3	64QAM	1	0	18.50	18.66	18.53	
3	64QAM	1	8	18.60	18.66	18.66	18
3	64QAM	1	14	18.56	18.61	18.54	
3	64QAM	8	0	17.57	17.66	17.58	
3	64QAM	8	4	17.43	17.63	17.59	18
3	64QAM	8	7	17.38	17.52	17.63	
3	64QAM	15	0	17.53	17.50	17.51	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.37	20.40	20.35	21
1.4	QPSK	1	3	20.36	20.37	20.38	
1.4	QPSK	1	5	20.23	20.34	20.20	
1.4	QPSK	3	0	19.50	19.51	19.48	20
1.4	QPSK	3	1	19.39	19.55	19.31	
1.4	QPSK	3	3	19.31	19.44	19.45	
1.4	QPSK	6	0	19.60	19.63	19.41	20
1.4	16QAM	1	0	19.66	19.66	19.63	
1.4	16QAM	1	3	19.48	19.62	19.64	
1.4	16QAM	1	5	19.56	19.48	19.58	19
1.4	16QAM	3	0	18.58	18.65	18.64	
1.4	16QAM	3	1	18.50	18.61	18.57	
1.4	16QAM	3	3	18.47	18.62	18.65	19
1.4	16QAM	6	0	18.52	18.51	18.50	
1.4	64QAM	1	0	18.53	18.49	18.55	
1.4	64QAM	1	3	18.63	18.49	18.48	19
1.4	64QAM	1	5	18.59	18.64	18.56	
1.4	64QAM	3	0	17.60	17.49	17.60	
1.4	64QAM	3	1	17.46	17.66	17.61	18
1.4	64QAM	3	3	17.41	17.55	17.65	
1.4	64QAM	6	0	17.56	17.52	17.54	

3	QPSK	15	0	18.37	18.39	18.43	19
3	16QAM	1	0	18.51	18.44	18.29	
3	16QAM	1	8	18.33	18.54	18.31	
3	16QAM	1	14	18.45	18.41	18.62	18.5
3	16QAM	8	0	17.36	17.44	17.31	
3	16QAM	8	4	17.33	17.48	17.38	
3	16QAM	8	7	17.44	17.32	17.52	18.5
3	16QAM	15	0	17.26	17.25	17.32	
3	64QAM	1	0	17.34	17.49	17.59	
3	64QAM	1	8	17.53	17.43	17.20	17
3	64QAM	1	14	17.35	17.34	17.40	
3	64QAM	8	0	16.28	16.45	16.44	
3	64QAM	8	4	16.32	16.39	16.46	17
3	64QAM	8	7	16.42	16.51	16.42	
3	64QAM	15	0	16.41	16.70	16.41	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.13	19.18	19.11	20
1.4	QPSK	1	3	19.17	19.15	19.12	
1.4	QPSK	1	5	19.03	19.08	19.01	
1.4	QPSK	3	0	18.04	18.39	18.37	19
1.4	QPSK	3	1	18.29	18.26	18.25	
1.4	QPSK	3	3	18.34	18.20	18.37	
1.4	QPSK	6	0	18.36	18.32	18.42	19
1.4	16QAM	1	0	18.50	18.37	18.28	
1.4	16QAM	1	3	18.32	18.47	18.30	
1.4	16QAM	1	5	18.44	18.34	18.61	18.5
1.4	16QAM	3	0	17.35	17.37	17.30	
1.4	16QAM	3	1	17.32	17.41	17.37	
1.4	16QAM	3	3	17.43	17.25	17.51	18.5
1.4	16QAM	6	0	17.39	17.32	17.45	
1.4	64QAM	1	0	17.47	17.56	17.72	
1.4	64QAM	1	3	17.66	17.50	17.33	18.5
1.4	64QAM	1	5	17.48	17.41	17.53	
1.4	64QAM	3	0	16.41	16.52	16.57	
1.4	64QAM	3	1	16.45	16.46	16.59	17
1.4	64QAM	3	3	16.55	16.58	16.55	
1.4	64QAM	6	0	16.48	16.65	16.36	

Band 25 (1900MHz Band) 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	20.41	20.56	20.47	21
20	QPSK	1	49	20.55	20.51	20.48	
20	QPSK	1	99	20.29	20.37	20.44	
20	QPSK	50	0	19.60	19.65	19.63	20
20	QPSK	50	24	19.62	19.50	19.63	
20	QPSK	50	50	19.56	19.55	19.55	
20	QPSK	100	0	19.44	19.52	19.56	20
20	16QAM	1	0	19.68	19.62	19.52	
20	16QAM	1	49	19.53	19.53	19.40	
20	16QAM	1	99	19.47	19.45	19.52	19
20	16QAM	50	0	18.54	18.63	18.60	
20	16QAM	50	24	18.46	18.55	18.61	
20	16QAM	50	50	18.49	18.59	18.51	19
20	16QAM	100	0	18.45	18.64	18.53	
20	64QAM	1	0	18.63	18.52	18.57	
20	64QAM	1	49	18.59	18.47	18.52	19
20	64QAM	1	99	18.55	18.41	18.57	
20	64QAM	50	0	17.63	17.67	17.59	
20	64QAM	50	24	17.66	17.59	17.56	18
20	64QAM	50	50	17.53	17.60	17.57	
20	64QAM	100	0	17.62	17.55	17.61	
Channel				26115	26365	26615	
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	20.30	20.46	20.37	21
15	QPSK	1	37	20.44	20.40	20.37	
15	QPSK	1	74	20.18	20.26	20.33	
15	QPSK	36	0	19.59	19.58	19.57	20
15	QPSK	36	20	19.51	19.39	19.55	
15	QPSK	36	39	19.45	19.44	19.58	
15	QPSK	75	0	19.63	19.51	19.55	20
15	16QAM	1	0	19.67	19.61	19.51	
15	16QAM	1	37	19.52	19.52	19.39	
15	16QAM	1	74	19.46	19.44	19.51	19
15	16QAM	36	0	18.53	18.62	18.59	
15	16QAM	36	20	18.45	18.54	18.60	
15	16QAM	36	39	18.48	18.58	18.50	19
15	16QAM	75	0	18.44	18.63	18.52	
15	64QAM	1	0	18.62	18.51	18.56	
15	64QAM	1	37	18.58	18.46	18.51	19
15	64QAM	1	74	18.54	18.40	18.56	
15	64QAM	36	0	17.62	17.66	17.58	
15	64QAM	36	20	17.65	17.58	17.55	18
15	64QAM	36	39	17.42	17.49	17.46	
15	64QAM	75	0	17.51	17.44	17.50	
Channel				26090	26365	26640	
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	20.32	20.48	20.38	21
10	QPSK	1	25	20.46	20.43	20.39	
10	QPSK	1	49	20.20	20.29	20.35	
10	QPSK	25	0	19.61	19.61	19.59	20
10	QPSK	25	12	19.53	19.42	19.57	
10	QPSK	25	25	19.47	19.47	19.60	
10	QPSK	50	0	19.65	19.54	19.57	20
10	16QAM	1	0	19.69	19.64	19.53	
10	16QAM	1	25	19.54	19.55	19.41	
10	16QAM	1	49	19.48	19.47	19.53	19
10	16QAM	25	0	18.55	18.65	18.61	
10	16QAM	25	12	18.47	18.57	18.62	
10	16QAM	25	25	18.50	18.61	18.52	19
10	16QAM	50	0	18.46	18.66	18.54	
10	64QAM	1	0	18.64	18.54	18.58	
10	64QAM	1	25	18.60	18.49	18.53	19
10	64QAM	1	49	18.56	18.43	18.58	
10	64QAM	25	0	17.64	17.69	17.60	
10	64QAM	25	12	17.67	17.61	17.57	18
10	64QAM	25	25	17.44	17.52	17.48	
10	64QAM	50	0	17.53	17.47	17.52	
Channel				26065	26365	26665	
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	20.29	20.44	20.35	21
5	QPSK	1	12	20.43	20.39	20.36	
5	QPSK	1	24	20.17	20.25	20.32	
5	QPSK	12	0	19.58	19.57	19.56	20
5	QPSK	12	7	19.50	19.38	19.54	
5	QPSK	12	13	19.44	19.43	19.57	
5	QPSK	25	0	19.62	19.50	19.54	20
5	16QAM	1	0	19.66	19.60	19.50	
5	16QAM	1	12	19.51	19.51	19.38	
5	16QAM	1	24	19.45	19.43	19.50	19
5	16QAM	12	0	18.51	18.60	18.57	
5	16QAM	12	7	18.43	18.52	18.58	
5	16QAM	12	13	18.46	18.56	18.48	19
5	16QAM	25	0	18.42	18.61	18.50	
5	64QAM	1	0	18.60	18.49	18.54	
5	64QAM	1	12	18.56	18.44	18.49	19
5	64QAM	1	24	18.52	18.38	18.54	
5	64QAM	12	0	17.60	17.64	17.56	
5	64QAM	12	7	17.63	17.56	17.53	18
5	64QAM	12	13	17.40	17.47	17.44	
5	64QAM	25	0	17.49	17.42	17.48	
Channel				26055	26365	26675	
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	20.35	20.52	20.41	21
3	QPSK	1	8	20.49	20.47	20.42	
3	QPSK	1	14	20.23	20.33	20.38	
3	QPSK	8	0	19.64	19.65	19.62	20
3	QPSK	8	4	19.56	19.46	19.60	
3	QPSK	8	7	19.50	19.51	19.63	

Band 66							
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	19.40	19.42	19.36	20
20	QPSK	1	49	19.35	19.40	19.34	
20	QPSK	1	99	19.22	19.29	19.29	
20	QPSK	50	0	18.55	18.63	18.60	19
20	QPSK	50	24	18.48	18.51	18.53	
20	QPSK	50	50	18.43	18.47	18.60	
20	QPSK	100	0	18.50	18.42	18.55	19
20	16QAM	1	0	18.62	18.68	18.45	
20	16QAM	1	49	18.51	18.58	18.42	
20	16QAM	1	99	18.34	18.50	18.48	18.5
20	16QAM	50	0	17.64	17.60	17.64	
20	16QAM	50	24	17.47	17.44	17.60	
20	16QAM	50	50	17.49	17.33	17.51	18.5
20	16QAM	100	0	17.59	17.49	17.63	
20	64QAM	1	0	17.77	17.75	17.73	
20	64QAM	1	49	17.70	17.61	17.61	18.5
20	64QAM	1	99	17.65	17.78	17.63	
20	64QAM	50	0	16.50	16.66	16.77	
20	64QAM	50	24	16.68	16.51	16.58	17
20	64QAM	50	50	16.57	16.48	16.51	
20	64QAM	100	0	16.60	16.57	16.55	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.30	19.31	19.26	20
15	QPSK	1	37	19.25	19.29	19.24	
15	QPSK	1	74	19.12	19.18	19.19	
15	QPSK	36	0	18.45	18.52	18.50	19
15	QPSK	36	20	18.38	18.40	18.43	
15	QPSK	36	39	18.33	18.36	18.50	
15	QPSK	75	0	18.40	18.31	18.45	19
15	16QAM	1	0	18.52	18.57	18.35	
15	16QAM	1	37	18.41	18.47	18.32	
15	16QAM	1	74	18.24	18.39	18.38	18.5
15	16QAM	36	0	17.54	17.49	17.54	
15	16QAM	36	20	17.37	17.33	17.50	
15	16QAM	36	39	17.39	17.22	17.41	18.5
15	16QAM	75	0	17.49	17.38	17.53	
15	64QAM	1	0	17.67	17.64	17.63	
15	64QAM	1	37	17.60	17.50	17.51	18.5
15	64QAM	1	74	17.55	17.67	17.53	
15	64QAM	36	0	16.40	16.55	16.67	
15	64QAM	36	20	16.58	16.40	16.48	17
15	64QAM	36	39	16.47	16.37	16.41	
15	64QAM	75	0	16.50	16.46	16.45	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.31	19.34	19.27	20
10	QPSK	1	25	19.26	19.32	19.25	
10	QPSK	1	49	19.13	19.21	19.20	
10	QPSK	25	0	18.46	18.55	18.51	19
10	QPSK	25	12	18.39	18.43	18.44	
10	QPSK	25	25	18.34	18.39	18.51	
10	QPSK	50	0	18.41	18.34	18.46	19
10	16QAM	1	0	18.53	18.60	18.36	
10	16QAM	1	25	18.42	18.50	18.33	
10	16QAM	1	49	18.25	18.42	18.39	18.5
10	16QAM	25	0	17.55	17.52	17.55	
10	16QAM	25	12	17.38	17.36	17.51	
10	16QAM	25	25	17.40	17.25	17.42	18.5
10	16QAM	50	0	17.50	17.41	17.54	
10	64QAM	1	0	1			



3	QPSK	15	0	19.68	19.58	19.60	20
3	16QAM	1	0	19.62	19.68	19.56	
3	16QAM	1	8	19.57	19.59	19.44	
3	16QAM	1	14	19.51	19.51	19.56	
3	16QAM	8	0	18.58	18.69	18.64	
3	16QAM	8	4	18.50	18.61	18.65	
3	16QAM	8	7	18.53	18.65	18.55	
3	16QAM	15	0	18.49	18.60	18.57	
3	64QAM	1	0	18.67	18.58	18.61	
3	64QAM	1	8	18.63	18.53	18.56	
3	64QAM	1	14	18.59	18.47	18.61	
3	64QAM	8	0	17.67	17.63	17.63	
3	64QAM	8	4	17.60	17.65	17.60	
3	64QAM	8	7	17.47	17.56	17.51	
3	64QAM	15	0	17.56	17.51	17.55	
Channel				26047	26366	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	20.40	20.55	20.46	21
1.4	QPSK	1	3	20.50	20.46	20.43	
1.4	QPSK	1	5	20.24	20.32	20.39	
1.4	QPSK	3	0	19.65	19.64	19.63	
1.4	QPSK	3	1	19.57	19.45	19.61	
1.4	QPSK	3	3	19.51	19.50	19.64	
1.4	QPSK	6	0	19.69	19.57	19.61	20
1.4	16QAM	1	0	19.63	19.67	19.57	19
1.4	16QAM	1	3	19.58	19.58	19.45	
1.4	16QAM	1	5	19.52	19.50	19.57	
1.4	16QAM	3	0	18.59	18.68	18.65	
1.4	16QAM	3	1	18.51	18.60	18.66	
1.4	16QAM	3	3	18.54	18.64	18.56	
1.4	16QAM	6	0	18.50	18.69	18.58	18
1.4	64QAM	1	0	18.68	18.57	18.62	19
1.4	64QAM	1	3	18.64	18.52	18.57	
1.4	64QAM	1	5	18.60	18.46	18.62	
1.4	64QAM	3	0	17.68	17.62	17.64	
1.4	64QAM	3	1	17.61	17.64	17.61	
1.4	64QAM	3	3	17.48	17.55	17.52	
1.4	64QAM	6	0	17.57	17.50	17.56	18

3	QPSK	15	0	18.43	18.36	18.50	19
3	16QAM	1	0	18.55	18.62	18.40	
3	16QAM	1	8	18.44	18.52	18.37	
3	16QAM	1	14	18.27	18.44	18.43	
3	16QAM	8	0	17.57	17.54	17.59	
3	16QAM	8	4	17.40	17.38	17.55	
3	16QAM	8	7	17.42	17.27	17.46	
3	16QAM	15	0	17.52	17.43	17.58	
3	64QAM	1	0	17.70	17.69	17.68	
3	64QAM	1	8	17.63	17.55	17.56	
3	64QAM	1	14	17.58	17.72	17.58	
3	64QAM	8	0	16.43	16.60	16.72	
3	64QAM	8	4	16.61	16.45	16.53	
3	64QAM	8	7	16.50	16.42	16.46	
3	64QAM	15	0	16.53	16.51	16.50	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.37	19.41	19.32	20
1.4	QPSK	1	3	19.32	19.39	19.30	
1.4	QPSK	1	5	19.19	19.28	19.25	
1.4	QPSK	3	0	18.52	18.62	18.56	
1.4	QPSK	3	1	18.45	18.50	18.49	
1.4	QPSK	3	3	18.40	18.46	18.56	
1.4	QPSK	6	0	18.47	18.41	18.51	19
1.4	16QAM	1	0	18.59	18.67	18.41	19
1.4	16QAM	1	3	18.48	18.57	18.38	
1.4	16QAM	1	5	18.31	18.49	18.44	
1.4	16QAM	3	0	17.61	17.59	17.60	
1.4	16QAM	3	1	17.44	17.43	17.56	
1.4	16QAM	3	3	17.46	17.32	17.47	
1.4	16QAM	6	0	17.56	17.48	17.59	18.5
1.4	64QAM	1	0	17.74	17.74	17.69	18.5
1.4	64QAM	1	3	17.67	17.60	17.57	
1.4	64QAM	1	5	17.62	17.77	17.59	
1.4	64QAM	3	0	16.47	16.65	16.73	
1.4	64QAM	3	1	16.65	16.50	16.54	
1.4	64QAM	3	3	16.54	16.47	16.47	
1.4	64QAM	6	0	16.57	16.56	16.51	17

**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	15.30	16.00	17.00	100.00
		CH 6	2437	15.63	16.50	17.00	
		CH 11	2462	15.29	16.00	17.00	
	802.11g 6Mbps	CH 1	2412	12.93	13.50	15.00	96.86
		CH 6	2437	13.33	13.50	15.00	
		CH 11	2462	12.93	13.50	15.00	
802.11n-HT20 MCS0	CH 1	2412	10.80	11.50	13.00	96.28	
	CH 6	2437	11.09	11.50	13.00		
	CH 11	2462	10.91	11.50	13.00		
802.11n-HT40 MCS0	CH 3	2422	11.03	11.50	13.00	90.65	
	CH 6	2437	11.10	11.50	13.00		
	CH 9	2452	11.17	11.50	13.00		

**5.2GHz 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	12.96	13.50	15.00	96.53
		CH 44	5220	12.98	13.50	15.00	
		CH 48	5240	12.99	13.50	15.00	
	802.11n-HT20 MCS0	CH 36	5180	11.55	12.00	14.00	96.28
		CH 44	5220	11.57	12.00	14.00	
		CH 48	5240	11.64	12.00	14.00	
	802.11n-HT40 MCS0	CH 38	5190	11.02	11.50	14.00	89.29
		CH 46	5230	11.38	12.00	14.00	
	802.11ac-VHT20 MCS0	CH 36	5180	11.36	12.00	14.00	96.68
		CH 44	5220	11.42	12.00	14.00	
		CH 48	5240	11.36	12.00	14.00	
	802.11ac-VHT40 MCS0	CH 38	5190	11.27	12.00	14.00	87.86
		CH 46	5230	11.41	12.00	14.00	
	802.11ac-VHT80 MCS0	CH 42	5210	11.02	11.50	14.00	87.84

**5.3GHz 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	12.91	13.50	15.00	96.53
		CH 60	5300	13.20	13.50	15.00	
		CH 64	5320	13.27	13.50	15.00	
	802.11n-HT20 MCS0	CH 52	5260	11.58	12.00	14.00	96.28
		CH 60	5300	11.55	12.00	14.00	
		CH 64	5320	11.47	12.00	14.00	
	802.11n-HT40 MCS0	CH 54	5270	11.30	11.50	14.00	89.29
		CH 62	5310	11.21	11.50	14.00	
	802.11ac-VHT20 MCS0	CH 52	5260	11.25	11.50	14.00	96.68
		CH 60	5300	11.50	12.00	14.00	
		CH 64	5320	11.37	12.00	14.00	
	802.11ac-VHT40 MCS0	CH 54	5270	11.34	12.00	14.00	87.86
		CH 62	5310	11.19	11.50	14.00	
	802.11ac-VHT80 MCS0	CH 58	5290	11.18	11.50	14.00	87.84

**5.5GHz WLAN ANT 1**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	13.64	14.00	15.00	96.53
		CH 120	5600	13.17	13.50	15.00	
		CH 144	5720	12.94	13.50	15.00	
	802.11n-HT20 MCS0	CH 100	5500	11.15	12.00	14.00	96.28
		CH 120	5600	11.58	12.00	14.00	
		CH 144	5720	11.54	12.00	14.00	
	802.11n-HT40 MCS0	CH 102	5510	11.98	12.00	14.00	89.29
		CH 126	5630	11.24	11.50	14.00	
		CH 142	5710	10.94	11.50	14.00	
	802.11ac-VHT20 MCS0	CH 100	5500	11.08	12.00	14.00	96.68
		CH 120	5600	11.44	12.00	14.00	
		CH 144	5720	11.58	12.00	14.00	
	802.11ac-VHT40 MCS0	CH 102	5510	11.08	11.50	14.00	87.86
		CH 126	5630	11.33	11.50	14.00	
		CH 142	5710	10.99	11.50	14.00	
	802.11ac-VHT80 MCS0	CH 106	5530	11.54	12.00	14.00	87.84
		CH 122	5610	11.24	12.00	14.00	
		CH 138	5690	11.59	12.00	14.00	

**5.8GHz WLAN ANT 1**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
5.8GHz WLAN ANT 1	802.11a MCS0	CH 149	5745	12.24	12.50	14.00	96.53
		CH 157	5785	11.95	12.50	14.00	
		CH 165	5825	11.63	12.50	14.00	
	802.11n-HT20 MCS0	CH 149	5745	10.62	11.00	13.00	96.28
		CH 157	5785	10.56	11.00	13.00	
		CH 165	5825	10.62	11.00	13.00	
	802.11n-HT40 MCS0	CH 151	5755	9.35	10.00	13.00	89.29
		CH 159	5795	9.38	10.00	13.00	
	802.11ac-VHT20 MCS0	CH 149	5745	10.29	10.50	13.00	96.68
		CH 157	5785	10.44	11.00	13.00	
		CH 165	5825	10.58	11.00	13.00	
	802.11ac-VHT40 MCS0	CH 151	5755	9.87	10.50	13.00	87.86
		CH 159	5795	9.59	10.00	13.00	
	802.11ac-VHT80 MCS0	CH 155	5775	10.14	10.50	13.00	87.84