



REPORT No.: SZ22060386S01

## Annex E Conducted Power

**Note:**

Conducted power unit: dBm

The target power was recorded in the manufacture document.

### Full Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5	
	TX Channel	128	189		251	128	189			251
	Frequency (MHz)	824.2	836.4		848.8	824.2	836.4			848.8
GSM 1 Tx slot	32.54	32.55	32.57	33.50	23.54	23.55	23.57	24.50	0.06	
GPRS 1 Tx slot	32.51	32.53	32.55	33.50	23.51	23.53	23.55	24.50		
GPRS 2 Tx slots	31.59	31.69	31.66	32.50	25.59	25.69	25.66	26.50	0.10	
GPRS 3 Tx slots	29.72	29.75	29.80	30.50	25.46	25.49	25.54	26.24	0.08	
GPRS 4 Tx slots	28.69	28.67	28.73	29.50	25.69	25.67	25.73	26.50	0.06	
EDGE 1 Tx slot	26.27	26.21	26.33	27.00	17.27	17.21	17.33	18.00	0.12	
EDGE 2 Tx slots	25.11	25.14	25.16	26.00	19.11	19.14	19.16	20.00	0.05	
EDGE 3 Tx slots	22.73	22.85	22.79	23.50	18.47	18.59	18.53	19.24	0.12	
EDGE 4 Tx slots	21.55	21.65	21.59	22.50	18.55	18.65	18.59	19.50	0.10	
Mode		Max.	32.57		Max.	25.73				
Attenuator	Cable Loss : 0.6									

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5	
	TX Channel	512	661		810	512	661			810
	Frequency (MHz)	1850.2	1880		1909.8	1850.2	1880			1909.8
GSM 1 Tx slot	29.81	29.77	29.74	30.50	20.81	20.77	20.74	21.50	0.07	
GPRS 1 Tx slot	29.79	29.77	29.74	30.50	20.79	20.77	20.74	21.50		
GPRS 2 Tx slots	28.88	28.90	28.76	29.50	22.88	22.90	22.76	23.50	0.14	
GPRS 3 Tx slots	26.91	26.83	26.81	27.50	22.65	22.57	22.55	23.24	0.10	
GPRS 4 Tx slots	25.92	25.87	25.82	26.50	22.92	22.87	22.82	23.50	0.10	
EDGE 1 Tx slot	25.61	25.64	25.69	26.50	16.61	16.64	16.69	17.50	0.08	
EDGE 2 Tx slots	24.38	24.35	24.33	25.00	18.38	18.35	18.33	19.00	0.05	
EDGE 3 Tx slots	22.12	22.16	22.10	23.00	17.86	17.90	17.84	18.74	0.06	
EDGE 4 Tx slots	21.06	21.09	21.08	22.00	18.06	18.09	18.08	19.00	0.03	
Mode		Max.	29.81		Max.	22.92				
Attenuator	Cable Loss : 0.8									

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
	Rx Channel	9662	9800		9938	1537	1638		1738	4357	4407		4458
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99 RMC 12.2Kbps	22.87	22.78	22.73	23.50	22.84	22.86	22.85	23.50	23.25	23.14	23.21	24.00	
3GPP Rel 6 HSDPA Subtest-1	22.17	22.08	21.98	23.00	22.32	22.34	22.31	23.00	22.83	22.78	22.94	23.50	
3GPP Rel 6 HSDPA Subtest-2	22.14	22.05	22.00	23.00	22.31	22.39	22.29	23.00	22.82	22.77	22.85	23.50	
3GPP Rel 6 HSDPA Subtest-3	21.67	21.55	21.49	22.50	21.87	21.88	21.81	22.50	22.34	22.29	22.37	23.00	
3GPP Rel 6 HSDPA Subtest-4	21.67	21.55	21.50	22.50	21.85	21.87	21.82	22.50	22.34	22.28	22.35	23.00	
3GPP Rel 6 HSUPA Subtest-1	20.65	20.50	20.49	21.50	20.83	20.87	20.81	21.50	22.33	22.29	22.88	23.00	
3GPP Rel 6 HSUPA Subtest-2	21.15	21.08	20.99	22.00	21.31	21.36	21.32	22.00	22.81	22.78	22.88	23.50	
3GPP Rel 6 HSUPA Subtest-3	19.65	19.55	19.49	20.50	19.86	19.87	19.80	20.50	21.86	21.78	21.87	22.50	
3GPP Rel 6 HSUPA Subtest-4	22.14	22.03	21.94	23.00	22.29	22.34	22.31	23.00	22.81	22.78	22.93	23.50	
3GPP Rel 6 HSUPA Subtest-5	20.15	20.07	19.98	21.00	20.35	20.39	20.34	21.00	20.79	21.77	21.87	22.50	
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	19.70	19.59	19.53	20.50	19.88	19.89	19.84	20.50	20.41	20.35	20.41	21.00	
Attenuator		Cable Loss	0.8		Cable Loss	0.8			Cable Loss	0.8			
Mode		Max.	22.87		Max.	22.86			Max.	23.25			

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	24
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.37	23.41	23.31	
20	QPSK	1	49	23.35	23.38	23.34	24
20	QPSK	1	99	23.33	23.31	23.29	
20	QPSK	50	0	22.39	22.46	22.34	
20	QPSK	50	24	22.42	22.44	22.30	23
20	QPSK	50	50	22.35	22.39	22.33	
20	QPSK	100	0	22.38	22.45	22.40	
20	16QAM	1	0	22.55	22.67	22.58	23.5
20	16QAM	1	49	22.59	22.85	22.69	
20	16QAM	1	99	22.61	22.74	22.75	
20	16QAM	50	0	21.33	21.46	21.34	22
20	16QAM	50	24	21.29	21.35	21.36	
20	16QAM	50	50	21.36	21.39	21.29	
20	16QAM	100	0	21.39	21.41	21.43	
Channel				18675	18900	19125	24
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.36	23.38	23.28	
15	QPSK	1	37	23.17	23.27	23.26	23
15	QPSK	1	74	23.31	23.33	23.37	
15	QPSK	36	0	22.25	22.52	22.29	
15	QPSK	36	20	22.33	22.54	22.15	23.5
15	QPSK	36	39	22.53	22.57	22.21	
15	QPSK	76	0	22.34	22.35	22.54	
15	16QAM	1	0	22.47	22.60	22.60	23.5
15	16QAM	1	37	22.62	22.94	22.50	
15	16QAM	1	74	22.49	22.91	22.85	
15	16QAM	36	0	21.38	21.31	21.37	22
15	16QAM	36	20	21.19	21.39	21.54	
15	16QAM	36	39	21.45	21.38	21.44	
15	16QAM	76	0	21.29	21.22	21.28	
Channel				18650	18900	19150	24
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.27	23.37	23.36	
10	QPSK	1	25	23.35	23.37	23.23	23
10	QPSK	1	49	23.29	23.32	23.39	
10	QPSK	25	0	22.27	22.66	22.53	
10	QPSK	25	12	22.60	22.57	22.23	23.5
10	QPSK	25	25	22.32	22.21	22.41	
10	QPSK	50	0	22.18	22.60	22.37	
10	16QAM	1	0	22.61	22.56	22.46	23.5
10	16QAM	1	25	22.65	22.89	22.70	
10	16QAM	1	49	22.58	22.84	22.65	
10	16QAM	25	0	21.33	21.57	21.34	22
10	16QAM	25	12	21.45	21.51	21.30	
10	16QAM	25	25	21.43	21.26	21.13	
10	16QAM	50	0	21.26	21.23	21.37	
Channel				18625	18900	19175	24
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.27	23.22	23.20	
5	QPSK	1	12	23.25	23.36	23.31	23
5	QPSK	1	24	23.32	23.11	23.30	
5	QPSK	12	0	22.46	22.37	22.46	
5	QPSK	12	7	22.35	22.34	22.25	23.5
5	QPSK	12	13	22.18	22.26	22.35	
5	QPSK	25	0	22.40	22.51	22.29	
5	16QAM	1	0	22.66	22.54	22.70	23.5
5	16QAM	1	12	22.64	22.92	22.58	
5	16QAM	1	24	22.47	22.76	22.62	
5	16QAM	12	0	21.47	21.58	21.24	22
5	16QAM	12	7	21.38	21.45	21.30	
5	16QAM	12	13	21.22	21.52	21.38	
5	16QAM	25	0	21.42	21.59	21.39	
Channel				18615	18900	19185	24
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.22	23.39	23.33	
3	QPSK	1	8	23.40	23.31	23.35	23
3	QPSK	1	14	23.35	23.36	23.16	
3	QPSK	8	0	22.37	22.47	22.43	
3	QPSK	8	4	22.50	22.27	22.22	23.5
3	QPSK	8	7	22.44	22.27	22.24	
3	QPSK	15	0	22.55	22.49	22.33	
3	16QAM	1	0	22.65	22.77	22.67	23.5
3	16QAM	1	8	22.49	22.85	22.67	
3	16QAM	1	14	22.48	22.59	22.86	
3	16QAM	8	0	21.26	21.42	21.43	22
3	16QAM	8	4	21.35	21.34	21.49	
3	16QAM	8	7	21.53	21.58	21.32	
3	16QAM	15	0	21.47	21.49	21.36	
Channel				18607	18900	19193	24
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.34	23.31	23.34	
1.4	QPSK	1	3	23.16	23.32	23.15	23
1.4	QPSK	1	5	23.21	23.38	23.21	
1.4	QPSK	3	0	22.20	22.58	22.29	
1.4	QPSK	3	1	22.42	22.41	22.28	23.5
1.4	QPSK	3	3	22.53	22.26	22.17	
1.4	QPSK	6	0	22.42	22.28	22.32	
1.4	16QAM	1	0	22.60	22.71	22.49	23.5
1.4	16QAM	1	3	22.69	22.85	22.76	
1.4	16QAM	1	5	22.62	22.64	22.79	
1.4	16QAM	3	0	21.35	21.40	21.17	22
1.4	16QAM	3	1	21.17	21.49	21.51	
1.4	16QAM	3	3	21.43	21.43	21.11	
1.4	16QAM	6	0	21.32	21.41	21.23	

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	24.5
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.04	23.81	23.68	
20	QPSK	1	49	23.70	23.73	23.66	23.5
20	QPSK	1	99	23.59	23.51	23.69	
20	QPSK	50	0	22.76	22.77	22.59	
20	QPSK	50	24	22.66	22.71	22.61	23.5
20	QPSK	50	50	22.51	22.81	22.68	
20	QPSK	100	0	22.82	22.82	22.57	
20	16QAM	1	0	22.75	22.91	22.83	23.5
20	16QAM	1	49	22.86	22.93	22.80	
20	16QAM	1	99	22.71	22.88	22.76	
20	16QAM	50	0	21.69	21.83	21.77	22.5
20	16QAM	50	24	21.64	21.74	21.68	
20	16QAM	50	50	21.58	21.69	21.57	
20	16QAM	100	0	21.66	21.79	21.63	
Channel				20025	20175	20325	24.5
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.72	23.69	23.70	
15	QPSK	1	37	23.71	23.76	23.76	23.5
15	QPSK	1	74	23.54	23.32	23.68	
15	QPSK	36	0	22.75	22.77	22.45	
15	QPSK	36	20	22.74	22.76	22.48	23.5
15	QPSK	36	39	22.53	22.89	22.56	
15	QPSK	76	0	22.57	22.62	22.62	
15	16QAM	1	0	22.83	23.01	22.79	23.5
15	16QAM	1	37	22.93	23.02	22.67	
15	16QAM	1	74	22.56	23.06	22.80	
15	16QAM	36	0	21.80	21.86	21.75	22.5
15	16QAM	36	20	21.49	21.92	21.85	
15	16QAM	36	39	21.59	21.70	21.74	
15	16QAM	76	0	21.54	21.72	21.83	
Channel				20000	20175	20350	24.5
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.61	23.76	23.64	
10	QPSK	1	25	23.77	23.76	23.72	23.5
10	QPSK	1	49	23.70	23.47	23.71	
10	QPSK	25	0	22.71	22.68	22.48	
10	QPSK	25	12	22.66	22.61	22.46	23.5
10	QPSK	25	25	22.54	22.88	22.76	
10	QPSK	50	0	22.43	22.92	22.46	
10	16QAM	1	0	22.59	22.77	22.89	23.5
10	16QAM	1	25	23.01	22.98	22.86	
10	16QAM	1	49	22.85	22.72	22.57	
10	16QAM	25	0	21.83	21.70	21.83	22.5
10	16QAM	25	12	21.51	21.59	21.51	
10	16QAM	25	25	21.46	21.75	21.70	
10	16QAM	50	0	21.83	21.82	21.45	
Channel				19975	20175	20375	24.5
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.48	23.70	23.63	
5	QPSK	1	12	23.75	23.74	23.58	23.5
5	QPSK	1	24	23.44	23.49	23.71	
5	QPSK	12	0	22.56	22.73	22.69	
5	QPSK	12	7	22.83	22.62	22.62	23.5
5	QPSK	12	13	22.60	22.72	22.66	
5	QPSK	25	0	22.64	22.98	22.68	
5	16QAM	1	0	22.60	22.96	22.75	23.5
5	16QAM	1	12	23.05	22.73	22.97	
5	16QAM	1	24	22.62	22.89	22.75	
5	16QAM	12	0	21.83	21.92	21.87	22.5
5	16QAM	12	7	21.78	21.89	21.84	
5	16QAM	12	13	21.57	21.88	21.51	
5	16QAM	25	0	21.84	21.73	21.49	
Channel				19965	20175	20385	24.5
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.62	23.73	23.61	
3	QPSK	1	8	23.56			

Band 5 (Cellular Band) (dBm) Part 22H(only on channel required)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.90	23.93	23.84	24.5
10	QPSK	1	25	23.70	23.83	23.69	
10	QPSK	1	49	23.69	23.75	23.66	
10	QPSK	25	0	22.69	22.87	22.79	23.5
10	QPSK	25	12	22.75	22.83	22.70	
10	QPSK	25	25	22.76	22.86	22.73	
10	QPSK	50	0	22.63	22.90	22.81	24
10	16QAM	1	0	23.05	23.11	23.10	
10	16QAM	1	25	23.01	23.08	23.03	
10	16QAM	1	49	23.08	23.14	23.00	22.5
10	16QAM	25	0	21.75	21.90	21.88	
10	16QAM	25	12	21.69	21.87	21.78	
10	16QAM	25	25	21.77	21.81	21.83	22.5
10	16QAM	50	0	21.68	21.75	21.76	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.80	23.75	23.78	24.5
5	QPSK	1	12	23.59	23.69	23.64	
5	QPSK	1	24	23.52	23.55	23.80	
5	QPSK	12	0	22.65	22.95	22.74	23.5
5	QPSK	12	7	22.72	22.81	22.61	
5	QPSK	12	13	22.68	22.93	22.82	
5	QPSK	25	0	22.69	22.77	22.95	24
5	16QAM	1	0	23.11	23.27	23.17	
5	16QAM	1	12	22.93	23.08	23.08	
5	16QAM	1	24	23.13	23.25	22.86	22.5
5	16QAM	12	0	21.63	21.91	21.96	
5	16QAM	12	7	21.57	21.99	21.90	
5	16QAM	12	13	21.58	21.87	21.78	22.5
5	16QAM	25	0	21.65	21.70	21.81	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.71	23.61	23.69	24.5
3	QPSK	1	8	23.63	23.67	23.49	
3	QPSK	1	14	23.53	23.66	23.75	
3	QPSK	8	0	22.50	22.73	22.79	23.5
3	QPSK	8	4	22.80	22.77	22.62	
3	QPSK	8	7	22.78	22.82	22.79	
3	QPSK	15	0	22.64	23.09	22.81	24
3	16QAM	1	0	22.98	23.17	23.03	
3	16QAM	1	8	22.91	22.89	22.88	
3	16QAM	1	14	22.80	22.96	23.05	22.5
3	16QAM	8	0	21.79	21.95	21.83	
3	16QAM	8	4	21.56	21.93	21.97	
3	16QAM	8	7	21.71	21.81	21.74	22.5
3	16QAM	15	0	21.79	21.58	21.93	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.66	23.84	23.83	24.5
1.4	QPSK	1	3	23.73	23.65	23.63	
1.4	QPSK	1	5	23.85	23.88	23.64	
1.4	QPSK	3	0	22.79	22.68	22.89	23.5
1.4	QPSK	3	1	22.62	22.69	22.70	
1.4	QPSK	3	3	22.69	23.00	22.85	
1.4	QPSK	6	0	22.67	22.98	22.65	24
1.4	16QAM	1	0	23.03	23.27	22.97	
1.4	16QAM	1	3	22.93	22.96	22.86	
1.4	16QAM	1	5	23.12	23.09	22.88	24
1.4	16QAM	3	0	21.90	21.92	21.89	
1.4	16QAM	3	1	21.64	21.86	21.88	
1.4	16QAM	3	3	21.80	21.63	21.64	22.5
1.4	16QAM	6	0	21.56	21.75	21.61	

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.81	23.96	23.86	24.5
10	QPSK	1	25	23.77	23.83	23.79	
10	QPSK	1	49	23.74	23.68	23.77	
10	QPSK	25	0	22.72	22.75	22.70	23.5
10	QPSK	25	12	22.73	22.71	22.61	
10	QPSK	25	25	22.80	22.69	22.66	
10	QPSK	50	0	22.75	22.81	22.68	24
10	16QAM	1	0	23.11	23.15	23.00	
10	16QAM	1	25	23.14	23.10	22.88	
10	16QAM	1	49	23.02	23.06	22.91	22.5
10	16QAM	25	0	21.75	21.91	21.66	
10	16QAM	25	12	21.81	21.87	21.70	
10	16QAM	25	25	21.86	21.84	21.57	22.5
10	16QAM	50	0	21.65	21.75	21.49	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.63	23.94	23.72	24.5
5	QPSK	1	12	23.87	23.75	23.74	
5	QPSK	1	24	23.84	23.58	23.78	
5	QPSK	12	0	22.54	22.86	22.84	23.5
5	QPSK	12	7	22.88	22.73	22.80	
5	QPSK	12	13	22.86	22.79	22.69	
5	QPSK	25	0	22.93	22.67	22.59	24
5	16QAM	1	0	22.93	23.25	23.15	
5	16QAM	1	12	23.30	22.98	22.68	
5	16QAM	1	24	23.08	22.97	22.92	22.5
5	16QAM	12	0	21.85	21.83	21.70	
5	16QAM	12	7	21.82	21.95	21.52	
5	16QAM	12	13	21.91	21.81	21.51	22.5
5	16QAM	25	0	21.80	21.78	21.63	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.73	23.70	23.89	24.5
3	QPSK	1	8	23.89	23.92	23.68	
3	QPSK	1	14	23.78	23.62	23.85	
3	QPSK	8	0	22.56	22.93	23.05	23.5
3	QPSK	8	4	22.68	22.73	22.75	
3	QPSK	8	7	22.84	22.74	22.76	
3	QPSK	15	0	22.61	22.74	22.83	24
3	16QAM	1	0	23.11	23.17	23.20	
3	16QAM	1	8	23.04	23.14	23.02	
3	16QAM	1	14	22.90	22.91	22.98	22.5
3	16QAM	8	0	21.85	21.84	21.79	
3	16QAM	8	4	21.64	21.84	21.87	
3	16QAM	8	7	22.03	21.89	21.38	22.5
3	16QAM	15	0	21.65	21.69	21.49	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.61	23.84	23.63	24.5
1.4	QPSK	1	3	23.72	23.82	23.86	
1.4	QPSK	1	5	23.63	23.73	23.76	
1.4	QPSK	3	0	22.76	22.56	22.74	23.5
1.4	QPSK	3	1	22.75	22.68	22.63	
1.4	QPSK	3	3	22.90	22.78	22.60	
1.4	QPSK	6	0	22.79	22.66	22.49	24
1.4	16QAM	1	0	23.14	23.23	23.08	
1.4	16QAM	1	3	23.21	23.01	23.02	
1.4	16QAM	1	5	22.82	23.08	22.92	24
1.4	16QAM	3	0	21.78	21.91	21.60	
1.4	16QAM	3	1	21.72	21.98	21.72	
1.4	16QAM	3	3	21.94	22.03	21.44	22.5
1.4	16QAM	6	0	21.53	21.76	21.50	

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	24	
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	0	23.41	23.45	23.38	24	
20	QPSK	1	49	23.32	23.36	23.32		
20	QPSK	1	99	23.36	23.35	23.30	23	
20	QPSK	50	0	22.35	22.42	22.36		
20	QPSK	50	24	22.29	22.46	22.33	23.5	
20	QPSK	50	50	22.31	22.39	22.37		
20	QPSK	100	0	22.37	22.48	22.40	24	
20	16QAM	1	0	22.66	22.88	22.71		
20	16QAM	1	49	22.71	22.85	22.68	22	
20	16QAM	1	99	22.79	22.69	22.66		
20	16QAM	50	0	21.42	21.46	21.40	22	
20	16QAM	50	24	21.29	21.45	21.33		
20	16QAM	50	50	21.33	21.43	21.35	22	
20	16QAM	100	0	21.39	21.41	21.29		
Channel				26115	26365	26615	24	
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	0	23.37	23.35	23.34	24	
15	QPSK	1	37	23.26	23.42	23.34		
15	QPSK	1	74	23.40	23.39	23.26	23	
15	QPSK	36	0	22.53	22.44	22.48		
15	QPSK	36	20	22.26	22.53	22.13	23.5	
15	QPSK	36	39	22.31	22.36	22.53		
15	QPSK	75	0	22.28	22.62	22.47	24	
15	16QAM	1	0	22.62	23.08	22.63		
15	16QAM	1	37	22.89	22.75	22.80	22	
15	16QAM	1	74	22.91	22.66	22.76		
15	16QAM	36	0	21.39	21.30	21.47	22	
15	16QAM	36	20	21.09	21.40	21.53		
15	16QAM	36	39	21.40	21.47	21.22	22	
15	16QAM	75	0	21.46	21.58	21.45		
Channel				26090	26365	26640	24	
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	0	23.22	23.33	23.24	24	
10	QPSK	1	25	23.37	23.36	23.34		
10	QPSK	1	49	23.39	23.18	23.36	23	
10	QPSK	25	0	22.54	22.37	22.39		
10	QPSK	25	12	22.21	22.64	22.23	23.5	
10	QPSK	25	25	22.18	22.47	22.50		
10	QPSK	50	0	22.41	22.67	22.44	24	
10	16QAM	1	0	22.67	22.73	22.63		
10	16QAM	1	25	22.67	23.00	22.52	22	
10	16QAM	1	49	22.65	22.81	22.57		
10	16QAM	25	0	21.45	21.54	21.54	22	
10	16QAM	25	12	21.39	21.31	21.22		
10	16QAM	25	25	21.42	21.56	21.24	22	
10	16QAM	50	0	21.22	21.61	21.18		
Channel				26065	26365	26665	24	
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	0	23.44	23.26	23.30	24	
5	QPSK	1	12	23.22	23.20	23.42		
5	QPSK	1	24	23.37	23.23	23.43	23	
5	QPSK	12	0	22.42	22.44	22.29		
5	QPSK	12	7	22.09	22.33	22.44	23.5	
5	QPSK	12	13	22.20	22.27	22.35		
5	QPSK	25	0	22.36	22.42	22.43	24	
5	16QAM	1	0	22.80	22.89	22.75		
5	16QAM	1	12	22.51	22.69	22.59	22	
5	16QAM	1	24	22.89	22.57	22.63		
5	16QAM	12	0	21.55	21.41	21.54	22	
5	16QAM	12	7	21.25	21.33	21.37		
5	16QAM	12	13	21.18	21.48	21.34	22	
5	16QAM	25	0	21.51	21.61	21.23		
Channel				26055	26365	26675	24	
Frequency (MHz)				1851.5	1882.5	1913.5		
3	QPSK	1	0	23.17	23.27	23.35	24	
3	QPSK	1	8	23.32	23.44	23.26		
3	QPSK	1	14	23.36	23.34	23.23	23	
3	QPSK	8	0	22.52	22.48	22.52		
3	QPSK	8	4	22.32	22.62	22.38	23.5	
3	QPSK	8	7	22.31	22.35	22.21		
3	QPSK	15	0	22.33	22.53	22.59	24	
3	16QAM	1	0	22.81	22.95	22.90		
3	16QAM	1	8	22.83	22.93	22.48	22	
3	16QAM	1	14	22.97	22.83	22.83		
3	16QAM	8	0	21.32	21.44	21.41	22	
3	16QAM	8	4	21.11	21.45	21.39		
3	16QAM	8	7	21.47	21.43	21.25	22	
3	16QAM	15	0	21.29	21.41	21.49		
Channel				26047	26365	26683	24	
Frequency (MHz)				1850.7	1882.5	1914.3		
1.4	QPSK	1	0	23.37	23.37	23.31	24	
1.4	QPSK	1	3	23.17	23.16	23.39		
1.4	QPSK	1	5	23.44	23.40	23.36	23	
1.4	QPSK	3	0	22.25	22.59	22.44		
1.4	QPSK	3	1	22.31	22.31	22.26	23.5	
1.4	QPSK	3	3	22.17	22.25	22.40		
1.4	QPSK	6	0	22.28	22.29	22.51	24	
1.4	16QAM	1	0	22.52	22.71	22.91		
1.4	16QAM	1	3	22.58	23.00	22.73	22	
1.4	16QAM	1	5	22.74	22.50	22.54		
1.4	16QAM	3	0	21.53	21.56	21.58	22	
1.4	16QAM	3	1	21.53	21.51	21.57		
1.4	16QAM	3	3	21.57	21.54	21.55	22	
1.4	16QAM	6	0	21.34	21.32	21.15		

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	24.5	
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	23.80	23.86	23.69	24	
15	QPSK	1	37	23.62	23.58	23.62		
15	QPSK	1	74	23.53	23.59	23.54	23.5	
15	QPSK	36	0	22.72	22.76	22.70		
15	QPSK	36	20	22.75	22.73	22.63	24	
15	QPSK	36	39	22.63	22.69	22.67		
15	QPSK	75	0	22.68	22.66	22.68	22.5	
15	16QAM	1	0	23.06	23.08	23.04		
15	16QAM	1	37	23.11	23.09	23.02	24	
15	16QAM	1	74	23.01	23.06	23.05		
15	16QAM	36	0	21.70	21.66	21.59	22.5	
15	16QAM	36	20	21.59	21.59	21.64		
15	16QAM	36	39	21.62	21.55	21.65	24	
15	16QAM	75	0	21.73	21.66	21.58		
Channel				26740	26865	26990	24.5	
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	23.52	23.40	23.61	24.5	
10	QPSK	1	25	23.52	23.60	23.55		
10	QPSK	1	49	23.39	23.66	23.55	23.5	
10	QPSK	25	0	22.59	22.52	22.54		
10	QPSK	25	12	22.71	22.78	22.79	24	
10	QPSK	25	25	22.50	22.58	22.85		
10	QPSK	50	0	22.74	22.79	22.58	22.5	
10	16QAM	1	0	22.90	23.14	23.06		
10	16QAM	1	25	22.93	23.22	23.05	24	
10	16QAM	1	49	23.02	23.00	23.19		
10	16QAM	25	0	21.82	21.57	21.49	22.5	
10	16QAM	25	12	21.51	21.73	21.59		
10	16QAM	25	25	21.50	21.41	21.73	24	
10	16QAM	50	0	21.63	21.67	21.62		
Channel				26715	26865	27015	24.5	
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	23.64	23.59	23.63	24.5	
5	QPSK	1	12	23.69	23.38	23.53		
5	QPSK	1	24	23.68	23.60	23.55	23.5	
5	QPSK	12	0	22.63	22.65	22.51		
5	QPSK	12	7	22.63	22.93	22.72	24	
5	QPSK	12	13	22.67	22.66	22.78		
5	QPSK	25	0	22.75	22.58	22.75	22.5	
5	16QAM	1	0	23.19	23.25	22.86		
5	16QAM	1	12	23.16	23.01	22.87	24	
5	16QAM	1	24	23.01	23.17	23.08		
5	16QAM	12	0	21.90	21.55	21.71	22.5	
5	16QAM	12	7	21.60	21.74	21.76		
5	16QAM	12	13	21.51	21.40	21.58	24	
5	16QAM	25	0	21.90	21.49	21.75		
Channel				26705	26865	27025	24.5	
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	23.40	23.50	23.39	24.5	
3	QPSK	1	8	23.46	23.46	23.62		
3	QPSK	1	14	23.65	23.58	23.46	23.5	
3	QPSK	8	0	22.67	22.74	22.51		
3	QPSK	8	4	22.94	22.89	22.58	24	
3	QPSK	8	7	22.80	22.82	22.64		
3	QPSK	15	0	22.67	22.76	22.72	22.5	
3	16QAM	1	0	23.03	22.95	22.98		
3	16QAM	1	8	23.04	22.89	23.04	24	
3	16QAM	1	14	23.11	23.16	23.01		
3								



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	40195	40620	41055	41490			
Frequency (MHz)				2505	2549.5	2593	2636.5	2680			
20	QPSK	1	0	23.83	23.89	23.95	23.93	23.92	24.5		
20	QPSK	1	49	23.75	23.63	23.88	23.78	23.85			
20	QPSK	1	99	23.66	23.60	23.91	23.82	23.71			
20	QPSK	50	0	22.74	22.71	22.95	22.70	22.73	23.5		
20	QPSK	50	24	22.69	22.70	22.93	22.85	22.74			
20	QPSK	50	50	22.77	22.75	22.91	22.73	22.69			
20	QPSK	100	0	22.72	22.81	22.88	22.70	22.74	23.5		
20	16QAM	1	0	22.66	22.69	22.85	22.79	22.72			
20	16QAM	1	49	22.81	22.81	22.79	22.61	22.70			
20	16QAM	1	99	22.83	22.83	22.69	22.59	22.63	22.5		
20	16QAM	50	0	21.66	21.66	21.93	21.75	21.70			
20	16QAM	50	24	21.75	21.76	21.97	21.58	21.69			
20	16QAM	50	50	21.78	21.77	21.68	21.64	21.58	22.5		
20	16QAM	100	0	21.69	21.81	21.76	21.61	21.60			
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	23.81	23.83	23.65	23.81	23.87	24.5		
15	QPSK	1	37	23.67	23.63	23.66	23.69	23.90			
15	QPSK	1	74	23.66	23.59	23.92	23.63	23.91			
15	QPSK	36	0	22.92	22.81	23.14	22.67	22.63	23.5		
15	QPSK	36	20	22.81	22.81	22.99	22.71	22.85			
15	QPSK	36	39	22.89	22.80	22.80	22.64	22.71			
15	QPSK	75	0	22.85	22.75	22.82	22.62	22.69	23.5		
15	16QAM	1	0	22.65	22.64	22.97	22.96	22.62			
15	16QAM	1	37	22.75	22.82	22.87	22.77	22.70			
15	16QAM	1	74	22.64	23.02	22.79	22.55	22.50	22.5		
15	16QAM	36	0	21.72	21.51	21.80	21.69	21.54			
15	16QAM	36	20	21.81	21.59	21.86	21.62	21.85			
15	16QAM	36	39	21.72	21.92	21.76	21.46	21.39	22.5		
15	16QAM	75	0	21.65	21.62	21.73	21.74	21.62			
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	23.89	23.78	23.88	23.90	23.91	24.5		
10	QPSK	1	25	23.94	23.56	23.92	23.77	23.73			
10	QPSK	1	49	23.50	23.70	23.88	23.74	23.67			
10	QPSK	25	0	22.67	22.81	22.77	22.70	22.61	23.5		
10	QPSK	25	12	22.77	22.57	23.12	23.05	22.65			
10	QPSK	25	25	22.79	22.88	22.93	22.91	22.79			
10	QPSK	50	0	22.92	22.96	22.97	22.51	22.79	23.5		
10	16QAM	1	0	22.60	22.65	22.93	22.61	22.69			
10	16QAM	1	25	22.91	22.76	22.90	22.72	22.56			
10	16QAM	1	49	22.89	22.72	22.58	22.48	22.64	23.5		
10	16QAM	25	0	21.49	21.54	21.80	21.55	21.51			
10	16QAM	25	12	21.87	21.87	21.78	21.77	21.76			
10	16QAM	25	25	21.64	21.61	21.49	21.61	21.73	22.5		
10	16QAM	50	0	21.83	21.68	21.58	21.52	21.44			
Channel				39675	40148	40620	41093	41555			
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	23.55	23.68	23.75	23.92	23.66	24.5		
5	QPSK	1	12	23.82	23.64	23.76	23.86	23.64			
5	QPSK	1	24	23.58	23.61	23.75	23.75	23.64			
5	QPSK	12	0	22.81	22.84	23.15	22.63	22.68	23.5		
5	QPSK	12	7	22.65	22.52	23.07	23.04	22.66			
5	QPSK	12	13	22.86	22.97	22.84	22.81	22.89			
5	QPSK	25	0	22.74	22.87	22.70	22.83	22.77	23.5		
5	16QAM	1	0	22.62	22.63	22.97	22.94	22.72			
5	16QAM	1	12	22.88	22.75	22.61	22.57	22.55			
5	16QAM	1	24	22.43	22.68	22.51	22.54	22.63	23.5		
5	16QAM	12	0	21.99	21.80	22.11	21.71	21.89			
5	16QAM	12	7	21.62	21.91	22.04	21.68	21.71			
5	16QAM	12	13	21.88	21.66	21.56	21.54	21.42	22.5		
5	16QAM	25	0	21.67	21.76	21.71	21.54	21.52			

Band 41 (HPUE)											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)		
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	26.68	26.74	26.80	26.78	26.77	27.5		
20	QPSK	1	49	26.60	26.68	26.73	26.63	26.70			
20	QPSK	1	99	26.51	26.65	26.76	26.67	26.56			
20	QPSK	50	0	25.59	25.56	25.80	25.55	25.58	26.5		
20	QPSK	50	24	25.54	25.55	25.78	25.70	25.59			
20	QPSK	50	50	25.62	25.60	25.76	25.58	25.54			
20	QPSK	100	0	25.57	25.66	25.73	25.55	25.59	26.5		
20	16QAM	1	0	25.51	25.54	25.70	25.64	25.57			
20	16QAM	1	49	25.66	25.66	25.64	25.46	25.55			
20	16QAM	1	99	25.48	25.68	25.54	25.44	25.48	25.5		
20	16QAM	50	0	24.53	24.51	24.78	24.60	24.55			
20	16QAM	50	24	24.60	24.61	24.72	24.43	24.54			
20	16QAM	50	50	24.63	24.62	24.53	24.49	24.43	25.5		
20	16QAM	100	0	24.54	24.66	24.61	24.46	24.45			
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	26.56	26.58	26.71	26.56	26.62	27.5		
15	QPSK	1	37	26.42	26.58	26.41	26.44	26.65			
15	QPSK	1	74	26.41	26.54	26.67	26.38	26.66			
15	QPSK	36	0	25.67	25.56	25.89	25.32	25.28	26.5		
15	QPSK	36	20	25.56	25.56	25.74	25.46	25.60			
15	QPSK	36	39	25.64	25.55	25.55	25.39	25.46			
15	QPSK	75	0	25.60	25.50	25.57	25.37	25.44	26.5		
15	16QAM	1	0	25.40	25.39	25.72	25.71	25.27			
15	16QAM	1	37	25.50	25.57	25.62	25.52	25.45			
15	16QAM	1	74	25.39	25.77	25.54	25.30	25.25	25.5		
15	16QAM	36	0	24.47	24.26	24.55	24.44	24.29			
15	16QAM	36	20	24.56	24.34	24.61	24.37	24.60			
15	16QAM	36	39	24.47	24.67	24.51	24.21	24.14	25.5		
15	16QAM	75	0	24.40	24.37	24.48	24.49	24.37			
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	26.64	26.53	26.71	26.65	26.66	27.5		
10	QPSK	1	25	26.69	26.51	26.67	26.52	26.48			
10	QPSK	1	49	26.25	26.65	26.63	26.49	26.32			
10	QPSK	25	0	25.42	25.56	25.52	25.45	25.36	26.5		
10	QPSK	25	12	25.52	25.32	25.87	25.80	25.40			
10	QPSK	25	25	25.54	25.63	25.68	25.66	25.54			
10	QPSK	50	0	25.67	25.61	25.72	25.26	25.54	26.5		
10	16QAM	1	0	25.35	25.40	25.68	25.36	25.44			
10	16QAM	1	25	25.66	25.51	26.65	25.47	25.31			
10	16QAM	1	49	25.44	25.47	25.34	25.24	25.39	26.5		
10	16QAM	25	0	24.24	24.29	24.55	24.30	24.26			
10	16QAM	25	12	24.62	24.62	24.63	24.52	24.51			
10	16QAM	25	25	24.39	24.36	24.24	24.36	24.48	25.5		
10	16QAM	50	0	24.58	24.43	24.33	24.27	24.19			
Channel				39675	40148	40620	41093	41555			
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	26.30	26.43	26.50	26.67	26.41	27.5		
5	QPSK	1	12	26.57	26.59	26.51	26.61	26.39			
5	QPSK										

## 2.4GHz WLAN ANT 1

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	16.30	17.00	18.00	99.52
		CH 6	2437	16.43	17.00	18.00	
		CH 11	2462	16.47	17.00	18.00	
	802.11g 6Mbps	CH 1	2412	15.46	16.50	17.50	96.94
		CH 6	2437	15.85	16.50	17.50	
		CH 11	2462	15.56	16.50	17.50	
	802.11n-HT20 MCS0	CH 1	2412	15.67	16.50	18.00	96.73
		CH 6	2437	15.99	16.50	18.00	
		CH 11	2462	15.82	16.50	18.00	
802.11n-HT40 MCS0	CH 3	2422	13.20	14.00	15.00	93.91	
	CH 6	2437	13.25	14.00	15.00		
	CH 9	2452	13.23	14.00	15.00		

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	5.39	3.17	3.15
	CH 39	2441	5.94	3.63	3.65
	CH 78	2480	9.26	6.28	6.34
Tune-up Limit			10	7	7
Duty Cycle %			76.8	76.8	77.2

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	
LE	CH 00	2402	-8.58	-11.73	
	CH 19	2440	-7.59	-10.83	
	CH 39	2480	-6.97	-10.05	
Tune-up Limit			-6.5	-9.5	
Duty Cycle %			61.06	31.73	



## Reduced Power

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	21.37	21.28	21.23	22.00	21.34	21.36	21.35	22.00
3GPP Rel 6	HSDPA Subtest-1	20.67	20.58	20.49	21.50	20.82	20.84	20.81	21.50
3GPP Rel 6	HSDPA Subtest-2	20.64	20.55	20.50	21.50	20.81	20.89	20.79	21.50
3GPP Rel 6	HSDPA Subtest-3	20.17	20.05	19.99	21.00	20.37	20.38	20.31	21.00
3GPP Rel 6	HSDPA Subtest-4	20.17	20.05	20.00	21.00	20.35	20.37	20.32	21.00
3GPP Rel 6	HSUPA Subtest-1	19.15	19.00	18.99	20.00	19.33	19.37	19.31	20.00
3GPP Rel 6	HSUPA Subtest-2	19.65	19.58	19.49	20.50	19.81	19.86	19.82	21.50
3GPP Rel 6	HSUPA Subtest-3	18.15	18.05	17.99	19.00	18.36	18.37	18.30	19.00
3GPP Rel 6	HSUPA Subtest-4	20.64	20.53	20.44	21.50	20.79	20.84	20.81	21.50
3GPP Rel 6	HSUPA Subtest-5	18.65	18.57	18.48	19.50	18.85	18.89	18.84	19.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.20	18.09	18.03	19.00	18.38	18.39	18.34	19.00
Attenuator			Cable Loss	0.8		Cable Loss	0.8		
Mode			Max.	21.37		Max.	21.36		

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	22			
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	21.37	21.41	21.31				
20	QPSK	1	49	21.35	21.38	21.34				
20	QPSK	1	99	21.33	21.31	21.29				
20	QPSK	50	0	20.39	20.46	20.34				
20	QPSK	50	24	20.42	20.44	20.30				
20	QPSK	50	50	20.35	20.39	20.33				
20	QPSK	100	0	20.38	20.45	20.40				
20	16QAM	1	0	20.55	20.67	20.58				
20	16QAM	1	49	20.59	20.85	20.69				
20	16QAM	1	99	20.61	20.74	20.75				
20	16QAM	50	0	19.33	19.46	19.34				
20	16QAM	50	24	19.29	19.35	19.36				
20	16QAM	50	50	19.36	19.39	19.29				
20	16QAM	100	0	19.39	19.41	19.43				
Channel				18675	18900	19125	21.5			
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	0	21.36	21.38	21.28				
15	QPSK	1	37	21.17	21.27	21.26				
15	QPSK	1	74	21.31	21.33	21.37				
15	QPSK	36	0	20.25	20.52	20.29				
15	QPSK	36	20	20.33	20.54	20.15				
15	QPSK	36	39	20.53	20.57	20.21				
15	QPSK	76	0	20.34	20.35	20.54				
15	16QAM	1	0	20.47	20.60	20.60				
15	16QAM	1	37	20.62	20.94	20.50				
15	16QAM	1	74	20.49	20.91	20.85				
15	16QAM	36	0	19.38	19.31	19.37				
15	16QAM	36	20	19.19	19.39	19.54				
15	16QAM	36	39	19.45	19.38	19.44				
15	16QAM	76	0	19.29	19.22	19.28				
Channel				18650	18900	19150	21			
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	0	21.27	21.37	21.36				
10	QPSK	1	25	21.35	21.37	21.23				
10	QPSK	1	49	21.29	21.32	21.39				
10	QPSK	25	0	20.27	20.66	20.53				
10	QPSK	25	12	20.60	20.57	20.23				
10	QPSK	25	25	20.32	20.21	20.41				
10	QPSK	50	0	20.18	20.60	20.37				
10	16QAM	1	0	20.61	20.56	20.46				
10	16QAM	1	25	20.65	20.89	20.70				
10	16QAM	1	49	20.58	20.84	20.65				
10	16QAM	25	0	19.33	19.57	19.34				
10	16QAM	25	12	19.45	19.51	19.30				
10	16QAM	25	25	19.43	19.26	19.13				
10	16QAM	50	0	19.26	19.23	19.37				
Channel				18625	18900	19175	20.5			
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	0	21.27	21.22	21.20				
5	QPSK	1	12	21.25	21.36	21.31				
5	QPSK	1	24	21.32	21.11	21.30				
5	QPSK	12	0	20.46	20.37	20.46				
5	QPSK	12	7	20.35	20.34	20.25				
5	QPSK	12	13	20.18	20.26	20.35				
5	QPSK	25	0	20.40	20.51	20.29				
5	16QAM	1	0	20.66	20.54	20.70				
5	16QAM	1	12	20.64	20.92	20.58				
5	16QAM	1	24	20.47	20.76	20.62				
5	16QAM	12	0	19.47	19.58	19.24				
5	16QAM	12	7	19.38	19.45	19.30				
5	16QAM	12	13	19.22	19.52	19.38				
5	16QAM	25	0	19.42	19.59	19.39				
Channel				18615	18900	19185	20			
Frequency (MHz)				1851.5	1880	1908.5				
3	QPSK	1	0	21.22	21.39	21.33				
3	QPSK	1	8	21.40	21.31	21.35				
3	QPSK	1	14	21.35	21.36	21.16				
3	QPSK	8	0	20.37	20.47	20.43				
3	QPSK	8	4	20.50	20.27	20.22				
3	QPSK	8	7	20.44	20.27	20.24				
3	QPSK	15	0	20.55	20.49	20.33				
3	16QAM	1	0	20.65	20.77	20.67				
3	16QAM	1	8	20.49	20.85	20.67				
3	16QAM	1	14	20.48	20.59	20.86				
3	16QAM	8	0	19.26	19.42	19.43				
3	16QAM	8	4	19.35	19.34	19.49				
3	16QAM	8	7	19.53	19.58	19.32				
3	16QAM	15	0	19.47	19.49	19.36				
Channel				18607	18900	19193	21.5			
Frequency (MHz)				1850.7	1880	1909.3				
1.4	QPSK	1	0	21.34	21.31	21.34				
1.4	QPSK	1	3	21.16	21.32	21.15				
1.4	QPSK	1	5	21.21	21.38	21.21				
1.4	QPSK	3	0	20.20	20.58	20.29				
1.4	QPSK	3	1	20.42	20.41	20.28				
1.4	QPSK	3	3	20.53	20.28	20.17				
1.4	QPSK	6	0	20.42	20.28	20.32				
1.4	16QAM	1	0	20.60	20.71	20.49				
1.4	16QAM	1	3	20.69	20.85	20.76				
1.4	16QAM	1	5	20.62	20.64	20.79				
1.4	16QAM	3	0	19.35	19.40	19.17				
1.4	16QAM	3	1	19.17	19.49	19.51				
1.4	16QAM	3	3	19.43	19.43	19.11				
1.4	16QAM	6	0	19.32	19.41	19.23				

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	22.5			
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	21.04	21.81	21.68				
20	QPSK	1	49	21.70	21.73	21.66				
20	QPSK	1	99	21.59	21.51	21.69				
20	QPSK	50	0	20.76	20.77	20.59				
20	QPSK	50	24	20.66	20.71	20.61				
20	QPSK	50	50	20.51	20.81	20.68				
20	QPSK	100	0	20.82	20.82	20.57				
20	16QAM	1	0	20.75	20.91	20.83				
20	16QAM	1	49	20.86	20.93	20.80				
20	16QAM	1	99	20.71	20.88	20.76				
20	16QAM	50	0	19.69	19.83	19.77				
20	16QAM	50	24	19.64	19.74	19.68				
20	16QAM	50	50	19.58	19.69	19.57				
20	16QAM	100	0	19.66	19.79	19.63				
Channel				20025	20175	20325	21.5			
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	21.72	21.69	21.70				
15	QPSK	1	37	21.71	21.76	21.76				
15	QPSK	1	74	21.54	21.32	21.68				
15	QPSK	36	0	20.75	20.77	20.45				
15	QPSK	36	20	20.74	20.76	20.48				
15	QPSK	36	39	20.53	20.89	20.56				
15	QPSK	76	0	20.57	20.62	20.62				
15	16QAM	1	0	20.83	21.01	20.79				
15	16QAM	1	37	20.93	21.02	20.67				
15	16QAM	1	74	20.56	21.06	20.60				
15	16QAM	36	0	19.80	19.86	19.75				
15	16QAM	36	20	19.49	19.92	19.85				
15	16QAM	36	39	19.59	19.70	19.74				
15	16QAM	76	0	19.54	19.72	19.83				
Channel				20000	20175	20350	21.5			
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	21.61	21.76	21.64				
10	QPSK	1	25	21.77	21.76	21.72				
10	QPSK	1	49	21.70	21.47	21.71				
10	QPSK	25	0	20.71	20.68	20.48				
10	QPSK	25	12	20.66	20.61	20.46				
10	QPSK	25	25	20.54	20.88	20.76				
10	QPSK	50	0	20.43	20.92	20.46				
10	16QAM	1	0	20.59	20.77	20.89				
10	16QAM	1	25	21.01	20.98	20.86				
10	16QAM	1	49	20.85	20.72	20.57				
10	16QAM	25	0	19.83	19.70	19.83				
10	16QAM	25	12	19.51	19.59	19.51				
10	16QAM	25	25	19.46	19.75	19.70				
10	16QAM	50	0	19.83	19.82	19.45				
Channel				19975	20175	20375	20.5			
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	21.48	21.70	21.63				
5	QPSK	1	12	21.75	21.74	21.58				
5	QPSK	1	24	21.44	21.49	21.71				
5	QPSK	12	0	20.56	20.73	20.69				
5	QPSK	12	7	20.83	20.82	20.62				
5	QPSK	12	13	20.60	20.72	20.66				
5	QPSK	25	0	20.64	20.98	20.68				
5	16QAM	1	0	20.60	20.96	20.75				
5	16QAM	1	12	21						

Band 25 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	21.41	21.45	21.38	22
20	QPSK	1	49	21.32	21.36	21.32	
20	QPSK	1	99	21.36	21.35	21.30	
20	QPSK	50	0	20.35	20.42	20.36	21
20	QPSK	50	24	20.29	20.46	20.33	
20	QPSK	50	50	20.31	20.39	20.37	
20	QPSK	100	0	20.37	20.48	20.40	21.5
20	16QAM	1	0	20.66	20.88	20.71	
20	16QAM	1	49	20.71	20.85	20.68	
20	16QAM	1	99	20.79	20.69	20.66	20
20	16QAM	50	0	19.42	19.46	19.40	
20	16QAM	50	24	19.29	19.45	19.33	
20	16QAM	50	50	19.33	19.43	19.35	20
20	16QAM	100	0	19.39	19.41	19.29	
Channel				26115	26365	26615	
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	21.37	21.35	21.34	22
15	QPSK	1	37	21.26	21.42	21.34	
15	QPSK	1	74	21.40	21.39	21.26	
15	QPSK	36	0	20.53	20.44	20.48	21
15	QPSK	36	20	20.26	20.53	20.13	
15	QPSK	36	39	20.31	20.36	20.53	
15	QPSK	75	0	20.28	20.62	20.47	21.5
15	16QAM	1	0	20.62	21.08	20.63	
15	16QAM	1	37	20.89	20.75	20.80	
15	16QAM	1	74	20.91	20.66	20.76	20
15	16QAM	36	0	19.39	19.30	19.47	
15	16QAM	36	20	19.09	19.40	19.53	
15	16QAM	36	39	19.40	19.47	19.22	20
15	16QAM	75	0	19.46	19.58	19.45	
Channel				26090	26365	26640	
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	21.22	21.33	21.24	22
10	QPSK	1	25	21.37	21.36	21.34	
10	QPSK	1	49	21.39	21.18	21.36	
10	QPSK	25	0	20.54	20.37	20.39	21
10	QPSK	25	12	20.21	20.64	20.23	
10	QPSK	25	25	20.18	20.47	20.50	
10	QPSK	50	0	20.41	20.67	20.44	21.5
10	16QAM	1	0	20.67	20.73	20.63	
10	16QAM	1	25	20.67	21.00	20.52	
10	16QAM	1	49	20.65	20.81	20.57	20
10	16QAM	25	0	19.45	19.54	19.54	
10	16QAM	25	12	19.39	19.31	19.22	
10	16QAM	25	25	19.42	19.56	19.24	20
10	16QAM	50	0	19.22	19.61	19.18	
Channel				26065	26365	26665	
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	21.44	21.26	21.30	22
5	QPSK	1	12	21.22	21.20	21.42	
5	QPSK	1	24	21.37	21.23	21.43	
5	QPSK	12	0	20.42	20.44	20.29	21
5	QPSK	12	7	20.09	20.33	20.44	
5	QPSK	12	13	20.20	20.27	20.35	
5	QPSK	25	0	20.36	20.42	20.43	21.5
5	16QAM	1	0	20.80	20.89	20.75	
5	16QAM	1	12	20.51	20.69	20.59	
5	16QAM	1	24	20.89	20.57	20.63	20
5	16QAM	12	0	19.55	19.41	19.54	
5	16QAM	12	7	19.25	19.33	19.37	
5	16QAM	12	13	19.18	19.48	19.34	20
5	16QAM	25	0	19.51	19.61	19.23	
Channel				26055	26365	26675	
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	21.17	21.27	21.35	22
3	QPSK	1	8	21.32	21.44	21.26	
3	QPSK	1	14	21.36	21.34	21.23	
3	QPSK	8	0	20.52	20.48	20.52	21
3	QPSK	8	4	20.32	20.62	20.38	
3	QPSK	8	7	20.31	20.35	20.21	
3	QPSK	15	0	20.33	20.53	20.59	21.5
3	16QAM	1	0	20.81	20.95	20.90	
3	16QAM	1	8	20.83	20.93	20.48	
3	16QAM	1	14	20.97	20.83	20.83	20
3	16QAM	8	0	19.32	19.44	19.41	
3	16QAM	8	4	19.11	19.45	19.39	
3	16QAM	8	7	19.47	19.43	19.25	20
3	16QAM	15	0	19.29	19.41	19.49	
Channel				26047	26365	26683	
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	21.37	21.37	21.31	22
1.4	QPSK	1	3	21.17	21.16	21.39	
1.4	QPSK	1	5	21.44	21.40	21.36	
1.4	QPSK	3	0	20.25	20.59	20.44	21
1.4	QPSK	3	1	20.31	20.31	20.26	
1.4	QPSK	3	3	20.17	20.25	20.40	
1.4	QPSK	6	0	20.28	20.29	20.51	21
1.4	16QAM	1	0	20.52	20.71	20.91	
1.4	16QAM	1	3	20.58	21.00	20.73	
1.4	16QAM	1	5	20.74	20.50	20.54	23.5
1.4	16QAM	3	0	19.53	19.56	19.58	
1.4	16QAM	3	1	19.53	19.51	19.57	
1.4	16QAM	3	3	19.57	19.54	19.55	22
1.4	16QAM	6	0	19.34	19.32	19.15	

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	20.77	20.86	20.79	21.5
20	QPSK	1	49	20.66	20.69	20.71	
20	QPSK	1	99	20.70	20.75	20.82	
20	QPSK	50	0	19.81	19.90	19.79	20.5
20	QPSK	50	24	19.69	19.83	19.80	
20	QPSK	50	50	19.78	19.76	19.66	
20	QPSK	100	0	19.73	19.75	19.68	20.5
20	16QAM	1	0	19.70	19.88	19.63	
20	16QAM	1	49	19.65	19.83	19.59	
20	16QAM	1	99	19.78	19.68	19.71	19.5
20	16QAM	50	0	18.89	18.95	18.83	
20	16QAM	50	24	18.77	18.89	18.67	
20	16QAM	50	50	18.68	18.76	18.79	20.5
20	16QAM	100	0	18.75	18.88	18.80	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.72	20.55	20.69	21.5
15	QPSK	1	37	20.82	20.75	20.79	
15	QPSK	1	74	20.61	20.82	20.53	
15	QPSK	36	0	19.79	19.82	19.96	20.5
15	QPSK	36	20	19.85	19.69	19.83	
15	QPSK	36	39	19.88	19.79	19.52	
15	QPSK	75	0	19.76	19.64	19.60	20.5
15	16QAM	1	0	19.52	19.80	19.55	
15	16QAM	1	37	19.70	19.94	19.71	
15	16QAM	1	74	19.68	19.85	19.59	19.5
15	16QAM	36	0	18.95	19.02	18.94	
15	16QAM	36	20	18.86	18.97	18.71	
15	16QAM	36	39	18.86	18.84	18.82	20.5
15	16QAM	75	0	18.90	18.76	18.82	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.58	20.69	20.69	21.5
10	QPSK	1	25	20.52	20.79	20.57	
10	QPSK	1	49	20.76	20.81	20.62	
10	QPSK	25	0	19.65	19.69	19.87	20.5
10	QPSK	25	12	19.56	19.72	19.60	
10	QPSK	25	25	19.91	19.83	19.47	
10	QPSK	50	0	19.72	19.55	19.54	20.5
10	16QAM	1	0	19.84	19.88	19.79	
10	16QAM	1	25	19.58	19.70	19.72	
10	16QAM	1	49	19.62	19.79	19.67	19.5
10	16QAM	25	0	18.87	18.80	18.87	
10	16QAM	25	12	18.82	18.75	18.75	
10	16QAM	25	25	18.74	18.83	18.59	20.5
10	16QAM	50	0	18.55	18.80	18.96	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.60	20.59	20.78	21.5
5	QPSK	1	12	20.46	20.85	20.59	
5	QPSK	1	24	20.66	20.57	20.80	
5	QPSK	12	0	19.67	19.90	19.89	20.5
5	QPSK	12	7	19.52	19.75	19.83	
5	QPSK	12	13	19.94	19.88	19.59	
5	QPSK	25	0	19.72	19.74	19.49	20.5
5	16QAM	1	0	19.90	19.96	19.55	
5	16QAM	1	12	19.64	19.98	19.61	
5	16QAM	1	24	19.59	19.84	19.52	19.5
5	16QAM	12	0	19.04	19.05	18.88	
5	16QAM	12	7	18.91	18.73	18.76	
5	16QAM	12	13	18.60	18.64	18.70	20.5
5	16QAM	25	0	18.68	18.81	18.68	
Channel				131987	132322	132655	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.			

Band 41 (2496-2690MHz) (dBm)										
Bandwidth [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low 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	16.83	16.89	16.93	16.90	16.88	17.5	
20	QPSK	1	48	16.75	16.83	16.88	16.78	16.85		
20	QPSK	1	96	16.86	16.89	16.91	16.82	16.71		
20	QPSK	50	0	15.74	15.71	15.95	15.70	15.73	16.5	
20	QPSK	50	24	15.69	15.70	15.93	15.82	15.74		
20	QPSK	50	50	15.77	15.75	15.91	15.73	15.69		
20	QPSK	100	0	15.72	15.81	15.88	15.70	15.74		
20	16QAM	1	0	15.66	15.69	15.85	15.79	15.72	16.5	
20	16QAM	1	48	15.81	15.81	15.79	15.61	15.70		
20	16QAM	1	96	15.63	15.83	15.69	15.59	15.83		
20	16QAM	50	0	14.68	14.66	14.83	14.75	14.70	15.5	
20	16QAM	50	24	14.75	14.76	14.87	14.58	14.69		
20	16QAM	50	50	14.78	14.77	14.88	14.64	14.58		
20	16QAM	100	0	14.69	14.81	14.76	14.61	14.60		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.81	16.83	16.65	16.81	16.87	17.5	
15	QPSK	1	37	16.67	16.83	16.66	16.69	16.90		
15	QPSK	1	74	16.66	16.59	16.92	16.83	16.91		
15	QPSK	36	0	15.92	15.81	16.14	15.57	15.53	16.5	
15	QPSK	36	20	15.91	15.81	15.99	15.71	15.85		
15	QPSK	36	39	15.89	15.80	15.80	15.64	15.71		
15	QPSK	75	0	15.85	15.75	15.82	15.62	15.69		
15	16QAM	1	0	15.65	15.64	15.97	15.96	15.62	16.5	
15	16QAM	1	37	15.75	15.82	15.87	15.77	15.70		
15	16QAM	1	74	15.64	16.02	15.79	15.55	15.50		
15	16QAM	36	0	14.72	14.51	14.80	14.69	14.54	15.5	
15	16QAM	36	20	14.81	14.59	14.86	14.62	14.85		
15	16QAM	36	39	14.72	14.92	14.76	14.46	14.39		
15	16QAM	75	0	14.65	14.62	14.73	14.74	14.62		
Channel				39760	40169	40620	41090	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.89	16.78	16.88	16.90	16.91	17.5	
10	QPSK	1	25	16.88	16.86	16.92	16.77	16.73		
10	QPSK	1	49	16.50	16.70	16.88	16.74	16.57		
10	QPSK	25	0	15.87	15.81	15.77	15.70	15.61	16.5	
10	QPSK	25	12	15.77	15.57	16.12	16.05	15.85		
10	QPSK	25	25	15.79	15.88	15.93	15.91	15.79		
10	QPSK	50	0	15.92	15.86	15.97	15.51	15.79		
10	16QAM	1	0	15.60	15.66	15.93	15.91	15.69	16.5	
10	16QAM	1	25	15.91	15.76	15.80	15.72	15.56		
10	16QAM	1	49	15.69	15.72	15.59	15.49	15.64		
10	16QAM	25	0	14.49	14.54	14.80	14.55	14.51	15.5	
10	16QAM	25	12	14.87	14.87	14.78	14.77	14.76		
10	16QAM	25	25	14.64	14.61	14.49	14.61	14.73		
10	16QAM	50	0	15.33	15.18	15.08	15.02	14.94		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2504.5	2547	2593	2640.30	2687.5		
5	QPSK	1	0	16.55	16.68	16.75	16.92	16.66	17.5	
5	QPSK	1	12	16.62	16.64	16.76	16.86	16.94		
5	QPSK	1	24	16.58	16.61	16.75	16.75	16.64		
5	QPSK	12	0	15.81	15.84	16.15	15.83	15.68	16.5	
5	QPSK	12	7	15.65	15.52	16.07	16.04	15.66		
5	QPSK	12	13	15.88	15.87	15.84	15.81	15.89		
5	QPSK	25	0	15.74	15.87	15.70	15.83	15.77	16.5	
5	16QAM	1	0	15.62	15.63	15.97	15.94	15.72		
5	16QAM	1	12	15.89	15.76	15.61	15.57	15.55		
5	16QAM	1	24	15.43	15.68	15.51	15.54	15.83	15.5	
5	16QAM	12	0	14.59	14.80	15.11	14.71	14.89		
5	16QAM	12	7	14.62	14.91	15.04	14.86	14.71		
5	16QAM	12	13	14.89	14.86	14.56	14.54	14.42		
5	16QAM	25	0	14.67	14.76	14.71	14.54	14.52		

Band 41 (HPUE)										
Bandwidth [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle High Channel	High Channel	Tune-up limit [dBm]		
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.68	20.74	20.80	20.78	20.77	21.5	
20	QPSK	1	49	20.60	20.68	20.73	20.63	20.70		
20	QPSK	1	99	20.51	20.65	20.76	20.67	20.56		
20	QPSK	50	0	19.29	19.56	19.80	19.55	19.58	20.5	
20	QPSK	50	24	19.54	19.55	19.78	19.70	19.59		
20	QPSK	50	50	19.62	19.60	19.76	19.58	19.54		
20	QPSK	100	0	19.57	19.66	19.73	19.65	19.59		
20	16QAM	1	0	19.51	19.54	19.70	19.64	19.57	20.5	
20	16QAM	1	49	19.66	19.66	19.64	19.46	19.55		
20	16QAM	1	99	19.46	19.68	19.54	19.44	19.48		
20	16QAM	50	0	18.53	18.51	18.79	18.69	18.55	19.5	
20	16QAM	50	24	18.60	18.61	18.72	18.43	18.54		
20	16QAM	50	50	18.63	18.62	18.53	18.49	18.43		
20	16QAM	100	0	18.54	18.66	18.61	18.46	18.45		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.56	20.58	20.71	20.56	20.62	21.5	
15	QPSK	1	37	20.42	20.58	20.41	20.44	20.65		
15	QPSK	1	74	20.41	20.54	20.67	20.38	20.66		
15	QPSK	36	0	19.67	19.56	19.89	19.32	19.28	20.5	
15	QPSK	36	20	19.56	19.56	19.74	19.46	19.60		
15	QPSK	36	39	19.64	19.55	19.55	19.39	19.46		
15	QPSK	75	0	19.60	19.50	19.57	19.37	19.44		
15	16QAM	1	0	19.40	19.39	19.72	19.71	19.27	20.5	
15	16QAM	1	37	19.50	19.57	19.62	19.62	19.45		
15	16QAM	1	74	19.39	19.77	19.54	19.30	19.25		
15	16QAM	36	0	18.47	18.26	18.55	18.44	18.29	19.5	
15	16QAM	36	20	18.56	18.34	18.61	18.37	18.60		
15	16QAM	36	39	18.47	18.67	18.51	18.21	18.14		
15	16QAM	75	0	18.40	18.37	18.48	18.49	18.37		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.64	20.63	20.71	20.85	20.86	21.5	
10	QPSK	1	25	20.66	20.51	20.67	20.52	20.48		
10	QPSK	1	49	20.25	20.65	20.63	20.49	20.32		
10	QPSK	25	0	19.42	19.56	19.52	19.45	19.36	20.5	
10	QPSK	25	12	19.52	19.32	19.87	19.80	19.40		
10	QPSK	25	25	19.54	19.63	19.68	19.66	19.54		
10	QPSK	50	0	19.67	19.61	19.72	19.28	19.54	20.5	
10	16QAM	1	0	19.36	19.40	19.68	19.36	19.44		
10	16QAM	1	25	19.66	19.51	19.65	19.47	19.31		
10	16QAM	1	49	19.44	19.47	19.34	19.24	19.39	19.5	
10	16QAM	25	0	18.24	18.29	18.55	18.30	18.28		
10	16QAM	25	12	18.62	18.62	18.53	18.32	18.51		
10	16QAM	25	25	18.36	18.36	18.24	18.36	18.48		
10	16QAM	50	0	18.58	18.43	18.33	18.27	18.19		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2504.5	2547	2593	2640.30	2687.5		
5	QPSK	1	0	20.30	20.43	20.50	20.67	20.41	21.5	
5	QPSK	1	12	20.57	20.59	20.51	20.61	20.39		
5	QPSK	1	24	20.33	20.56	20.50	20.50	20.39		
5	QPSK	12	0	19.56	19.59	19.90				