



REPORT No.: SZ21110239S01

Annex E Conducted Power

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		31.85	32.05	31.99	33.00	22.85	23.05	22.99	24.00	0.20
GPRS 1 Tx slot		31.88	32.00	31.94	33.00	22.88	23.00	22.94	24.00	
GPRS 2 Tx slots		29.73	29.85	29.76	30.50	23.73	23.85	23.76	24.50	0.12
GPRS 3 Tx slots		27.61	27.86	27.81	28.50	23.35	23.60	23.55	24.24	0.25
GPRS 4 Tx slots		25.59	25.68	25.68	26.00	22.59	22.68	22.68	23.00	0.09
EDGE 1 Tx slot		26.58	26.72	26.68	27.50	17.58	17.72	17.68	18.50	0.14
EDGE 2 Tx slots		25.54	25.78	25.72	26.50	19.54	19.78	19.72	20.50	0.24
EDGE 3 Tx slots		24.60	24.73	24.78	25.50	20.34	20.47	20.52	21.24	0.18
EDGE 4 Tx slots		23.60	23.75	23.74	24.50	20.60	20.75	20.74	21.50	0.15
Mode			Max.	32.05			Max.	23.85		
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		28.73	29.04	28.91	30.00	19.73	20.04	19.91	21.00	0.35
GPRS 1 Tx slot		28.69	29.00	28.85	30.00	19.69	20.00	19.85	21.00	
GPRS 2 Tx slots		26.37	26.74	26.70	27.00	20.37	20.74	20.70	21.00	0.37
GPRS 3 Tx slots		25.57	25.85	25.70	26.50	21.31	21.59	21.44	22.24	0.28
GPRS 4 Tx slots		22.98	23.28	23.23	23.50	19.98	20.28	20.23	20.50	0.30
EDGE 1 Tx slot		24.75	25.14	24.99	25.50	15.75	16.14	15.99	16.50	0.39
EDGE 2 Tx slots		23.35	23.45	23.30	24.00	17.35	17.45	17.30	18.00	0.15
EDGE 3 Tx slots		22.64	22.73	22.63	23.50	18.38	18.47	18.37	19.24	0.10
EDGE 4 Tx slots		21.56	21.61	21.57	22.00	18.56	18.61	18.57	19.00	0.05
Mode			Max.	29.04			Max.	21.59		
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	21.07	21.19	21.14	22.00	19.71	19.76	19.65	20.00	23.01	23.03	22.99	24.00
3GPP Rel 6	HSDPA Subtest-1	20.62	19.56	19.53	21.00	19.60	18.50	19.70	20.00	21.18	21.52	21.23	22.00
3GPP Rel 6	HSDPA Subtest-2	20.28	19.23	19.21	19.00	19.55	18.49	19.64	20.00	20.95	21.21	20.94	22.00
3GPP Rel 6	HSDPA Subtest-3	20.46	19.46	19.41	21.00	19.54	18.51	19.63	20.00	20.65	20.89	20.64	21.50
3GPP Rel 6	HSDPA Subtest-4	20.15	19.13	19.09	21.00	19.57	18.53	19.65	20.00	20.56	20.81	20.56	21.50
3GPP Rel 6	HSUPA Subtest-1	20.58	19.61	19.54	21.00	19.57	18.53	19.66	20.00	21.90	22.06	21.76	22.50
3GPP Rel 6	HSUPA Subtest-2	20.59	19.56	19.49	21.00	19.53	18.47	19.63	20.00	21.92	22.06	21.72	22.50
3GPP Rel 6	HSUPA Subtest-3	20.54	19.58	19.50	21.00	19.58	18.51	19.62	20.00	21.92	21.95	21.73	22.50
3GPP Rel 6	HSUPA Subtest-4	20.59	19.55	19.48	21.00	19.56	18.46	19.63	20.00	21.88	22.07	21.70	22.50
3GPP Rel 6	HSUPA Subtest-5	20.58	19.59	19.52	21.00	19.57	18.51	19.64	20.00	21.93	21.99	21.73	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.54	19.60	19.55	21.00	19.55	18.54	19.63	20.00	21.93	21.85	21.76	22.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	21.19			Max.	19.76			Max.	23.03	

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	22.5
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.57	21.66	21.61	
20	QPSK	1	49	21.53	21.52	21.49	21.5
20	QPSK	1	99	21.42	21.38	21.36	
20	QPSK	50	0	20.74	20.79	20.70	
20	QPSK	50	24	20.54	20.62	20.50	21.5
20	QPSK	50	50	20.45	20.59	20.47	
20	QPSK	100	0	20.36	20.56	20.35	
20	16QAM	1	0	20.41	20.64	20.45	21.5
20	16QAM	1	49	20.35	20.45	20.30	
20	16QAM	1	99	20.29	20.36	20.17	
20	16QAM	50	0	19.88	19.87	19.77	20.5
20	16QAM	50	24	19.82	19.67	19.62	
20	16QAM	50	50	19.72	19.60	19.51	
20	16QAM	100	0	19.67	19.56	19.42	21
20	64QAM	1	0	20.27	20.46	20.22	
20	64QAM	1	49	20.12	20.26	20.07	
20	64QAM	1	99	20.04	20.23	20.02	20
20	64QAM	50	0	19.68	19.65	19.54	
20	64QAM	50	24	19.66	19.50	19.51	
20	64QAM	50	50	19.53	19.40	19.40	20
20	64QAM	100	0	19.47	19.27	19.30	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	22.5
15	QPSK	1	0	21.55	21.63	21.58	
15	QPSK	1	37	21.50	21.47	21.46	21.5
15	QPSK	1	74	21.37	21.34	21.34	
15	QPSK	36	0	20.70	20.75	20.67	
15	QPSK	36	20	20.52	20.59	20.47	21.5
15	QPSK	36	39	20.43	20.55	20.43	
15	QPSK	75	0	20.33	20.53	20.33	
15	16QAM	1	0	20.37	20.62	20.42	21.5
15	16QAM	1	37	20.31	20.43	20.25	
15	16QAM	1	74	20.25	20.32	20.14	
15	16QAM	36	0	19.86	19.83	19.74	20.5
15	16QAM	36	20	19.79	19.64	19.57	
15	16QAM	36	39	19.69	19.56	19.49	
15	16QAM	75	0	19.62	19.51	19.40	21
15	64QAM	1	0	20.24	20.43	20.18	
15	64QAM	1	37	20.09	20.22	20.04	
15	64QAM	1	74	20.02	20.19	19.98	20
15	64QAM	36	0	19.64	19.60	19.49	
15	64QAM	36	20	19.62	19.47	19.47	
15	64QAM	36	39	19.51	19.38	19.36	20
15	64QAM	75	0	19.44	19.23	19.27	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	22.5
10	QPSK	1	0	21.50	21.60	21.56	
10	QPSK	1	25	21.47	21.43	21.42	21.5
10	QPSK	1	49	21.34	21.29	21.30	
10	QPSK	25	0	20.65	20.71	20.62	21.5
10	QPSK	25	12	20.48	20.54	20.43	
10	QPSK	25	25	20.39	20.52	20.40	
10	QPSK	50	0	20.29	20.49	20.29	21.5
10	16QAM	1	0	20.33	20.58	20.38	
10	16QAM	1	25	20.28	20.40	20.22	
10	16QAM	1	49	20.22	20.29	20.11	20.5
10	16QAM	25	0	19.83	19.79	19.69	
10	16QAM	25	12	19.76	19.60	19.53	
10	16QAM	25	25	19.65	19.51	19.45	21
10	16QAM	50	0	19.59	19.46	19.37	
10	64QAM	1	0	20.21	20.39	20.14	
10	64QAM	1	25	20.07	20.19	20.02	20
10	64QAM	1	49	19.99	20.15	19.94	
10	64QAM	25	0	19.61	19.56	19.46	
10	64QAM	25	12	19.58	19.42	19.43	20
10	64QAM	25	25	19.47	19.35	19.33	
10	64QAM	50	0	19.40	19.21	19.22	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	22.5
5	QPSK	1	0	21.46	21.55	21.52	
5	QPSK	1	12	21.43	21.39	21.40	21.5
5	QPSK	1	24	21.31	21.26	21.27	
5	QPSK	12	0	20.63	20.66	20.60	21.5
5	QPSK	12	7	20.47	20.52	20.39	
5	QPSK	12	13	20.38	20.48	20.37	
5	QPSK	25	0	20.27	20.44	20.26	21.5
5	16QAM	1	0	20.30	20.54	20.37	
5	16QAM	1	12	20.23	20.36	20.16	
5	16QAM	1	24	20.19	20.25	20.08	20.5
5	16QAM	12	0	19.77	19.77	19.68	
5	16QAM	12	7	19.73	19.57	19.48	
5	16QAM	12	13	19.63	19.49	19.41	21
5	16QAM	25	0	19.56	19.43	19.33	
5	64QAM	1	0	20.19	20.35	20.12	
5	64QAM	1	12	19.99	20.17	20.00	20
5	64QAM	1	24	19.97	20.12	19.89	
5	64QAM	12	0	19.59	19.52	19.44	
5	64QAM	12	7	19.56	19.38	19.39	21.5
5	64QAM	12	13	19.44	19.31	19.28	
5	64QAM	25	0	19.37	19.14	19.21	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	22.5
3	QPSK	1	0	21.42	21.51	21.48	
3	QPSK	1	8	21.40	21.36	21.36	21.5
3	QPSK	1	14	21.27	21.23	21.25	
3	QPSK	8	0	20.61	20.63	20.57	21.5
3	QPSK	8	4	20.44	20.49	20.36	
3	QPSK	8	7	20.34	20.45	20.34	

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	22.5
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	21.65	21.71	21.60	
20	QPSK	1	49	21.53	21.58	21.56	21.5
20	QPSK	1	99	21.37	21.42	21.53	
20	QPSK	50	0	20.73	20.89	20.87	21.5
20	QPSK	50	24	20.58	20.69	20.74	
20	QPSK	50	50	20.53	20.59	20.65	
20	QPSK	100	0	20.46	20.49	20.40	21.5
20	16QAM	1	0	21.07	21.19	21.04	
20	16QAM	1	49	20.98	20.94	21.06	
20	16QAM	1	99	20.95	20.88	20.97	20.5
20	16QAM	50	0	19.89	19.93	19.99	
20	16QAM	50	24	19.81	19.88	19.96	
20	16QAM	50	50	19.88	19.87	19.93	21.5
20	16QAM	100	0	19.81	19.82	19.97	
20	64QAM	1	0	20.65	20.84	20.83	
20	64QAM	1	49	20.50	20.66	20.69	20.5
20	64QAM	1	99	20.46	20.59	20.62	
20	64QAM	50	0	19.86	19.95	19.95	
20	64QAM	50	24	19.84	19.76	19.81	20.5
20	64QAM	50	50	19.85	19.79	19.85	
20	64QAM	100	0	19.78	19.70	19.71	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	22.5
15	QPSK	1	0	21.61	21.66	21.56	
15	QPSK	1	37	21.49	21.54	21.53	21.5
15	QPSK	1	74	21.34	21.37	21.49	
15	QPSK	36	0	20.70	20.86	20.82	21.5
15	QPSK	36	20	20.54	20.64	20.69	
15	QPSK	36	39	20.51	20.56	20.61	
15	QPSK	75	0	20.42	20.44	20.37	21.5
15	16QAM	1	0	21.05	21.14	21.00	
15	16QAM	1	37	20.94	20.91	21.02	
15	16QAM	1	74	20.93	20.83	20.93	20.5
15	16QAM	36	0	19.84	19.88	19.95	
15	16QAM	36	20	19.76	19.85	19.92	
15	16QAM	36	39	19.83	19.85	19.89	21.5
15	16QAM	75	0	19.77	19.78	19.93	
15	64QAM	1	0	20.61	20.81	20.79	
15	64QAM	1	37	20.45	20.63	20.66	20.5
15	64QAM	1	74	20.42	20.55	20.58	
15	64QAM	36	0	19.81	19.92	19.91	
15	64QAM	36	20	19.80	19.72	19.77	20.5
15	64QAM	36	39	19.80	19.76	19.82	
15	64QAM	75	0	19.75	19.66	19.66	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	22.5
10	QPSK	1	0	21.62	21.68	21.55	
10	QPSK	1	25	21.51	21.54	21.51	21.5
10	QPSK	1	49	21.33	21.38	21.51	
10	QPSK	25	0	20.68	20.86	20.84	21.5
10	QPSK	25	12	20.56	20.65	20.70	
10	QPSK	25	25	20.50	20.55	20.63	
10	QPSK	50	0	20.43	20.45	20.38	21.5
10	16QAM	1	0	21.04	21.14	21.00	
10	16QAM	1	25	20.93	20.91	21.02	
10	16QAM	1	49	20.90	20.83	20.95	20.5
10	16QAM	25	0	19.86	19.90	19.94	
10	16QAM	25	12	19.78	19.84	19.92	
10	16QAM	25	25	19.84	19.82	19.90	21.5
10	16QAM	50	0	19.76	19.79	19.94	
10	64QAM	1	0	20.60	20.82	20.81	
10	64QAM	1	25	20.46	20.62	20.66	20.5
10	64QAM	1	49	20.41	20.54	20.58	
10	64QAM	25	0	19.82	19.93	19.91	
10	64QAM	25	12	19.79	19.73	19.77	21.5
10	64QAM	25	25	19.82	19.77	19.81	
10	64QAM	50	0	19.74	19.68	19.68	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	22.5
5	QPSK	1	0	21.58	21.66	21.51	
5	QPSK	1	12	21.49	21.51	21.48	21.5
5	QPSK	1	24	21.31	21.34	21.48	
5	QPSK	12	0	20.65	20.83	20.80	21.5
5	QPSK	12	7	20.52	20.61	20.66	
5	QPSK	12	13	20.47	20.51	20.60	
5	QPSK	25	0	20.38	20.43	20.34	21.5
5	16QAM	1	0	20.99	21.10	20.98	
5	16QAM	1	12	20.89	20.88	20.98	
5	16QAM	1	24	20.86	20.80	20.92	20.5
5	16QAM	12	0	19.84	19.86	19.90	
5	16QAM	12	7	19.73	19.81	19.88	
5	16QAM	12	13	19.81	19.78	19.85	21.5
5	16QAM	25	0	19.72	19.75	19.91	
5	64QAM	1	0	20.55	20.79	20.79	
5	64QAM	1	12	20.44	20.58	20.62	20.5
5	64QAM	1	24	20.39	20.51	20.54	
5	64QAM	12	0	19.79	19.90	19.89	
5	64QAM	12	7	19.74	19.70	19.72	21.5
5	64QAM	12	13	19.80	19.72	19.78	
5	64QAM	25	0	19.70	19.63	19.64	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	22.5
3	QPSK	1	0	21.59	21.65	21.53	
3	QPSK	1	8	21.49	21.51	21.47	21.5
3	QPSK	1	14	21.28	21.36	21.46	
3	QPSK	8	0	20.65	20.82	20.81	21.5
3	QPSK	8	4	20.52	20.61	20.68	
3	QPSK	8	7	20.48	20.52	20.60	

3	QPSK	15	0	20.24	20.40	20.22	21.5
3	16QAM	1	0	20.26	20.50	20.32	
3	16QAM	1	8	20.20	20.32	20.13	
3	16QAM	1	14	20.15	20.20	20.03	20.5
3	16QAM	8	0	19.73	19.72	19.63	
3	16QAM	8	4	19.70	19.55	19.45	
3	16QAM	8	7	19.58	19.45	19.38	
3	16QAM	15	0	19.52	19.38	19.29	
3	64QAM	1	0	20.15	20.31	20.08	21
3	64QAM	1	8	19.95	20.14	19.96	
3	64QAM	1	14	19.94	20.10	19.85	
3	64QAM	8	0	19.55	19.49	19.39	20
3	64QAM	8	4	19.52	19.36	19.34	
3	64QAM	8	7	19.40	19.28	19.25	
3	64QAM	15	0	19.33	19.11	19.17	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.44	21.50	21.50	22.5
1.4	QPSK	1	3	21.40	21.37	21.38	
1.4	QPSK	1	5	21.28	21.21	21.25	
1.4	QPSK	3	0	20.61	20.64	20.57	
1.4	QPSK	3	1	20.43	20.50	20.34	
1.4	QPSK	3	3	20.34	20.44	20.33	
1.4	QPSK	6	0	20.24	20.41	20.22	21.5
1.4	16QAM	1	0	20.27	20.49	20.34	21.5
1.4	16QAM	1	3	20.19	20.31	20.11	
1.4	16QAM	1	5	20.14	20.22	20.06	
1.4	16QAM	3	0	19.72	19.73	19.66	
1.4	16QAM	3	1	19.70	19.53	19.45	
1.4	16QAM	3	3	19.61	19.44	19.39	
1.4	16QAM	6	0	19.53	19.40	19.30	20.5
1.4	64QAM	1	0	20.15	20.32	20.09	21
1.4	64QAM	1	3	19.95	20.14	19.97	
1.4	64QAM	1	5	19.93	20.08	19.87	
1.4	64QAM	3	0	19.55	19.49	19.42	
1.4	64QAM	3	1	19.51	19.34	19.34	
1.4	64QAM	3	3	19.40	19.28	19.25	
1.4	64QAM	6	0	19.34	19.09	19.18	20

3	QPSK	15	0	20.40	20.40	20.34	21.5
3	16QAM	1	0	21.00	21.11	20.95	
3	16QAM	1	8	20.89	20.88	20.97	
3	16QAM	1	14	20.88	20.79	20.91	20.5
3	16QAM	8	0	19.83	19.86	19.91	
3	16QAM	8	4	19.75	19.80	19.90	
3	16QAM	8	7	19.81	19.80	19.87	
3	16QAM	15	0	19.74	19.76	19.89	
3	64QAM	1	0	20.55	20.80	20.77	21.5
3	64QAM	1	8	20.42	20.60	20.61	
3	64QAM	1	14	20.36	20.51	20.54	
3	64QAM	8	0	19.79	19.89	19.87	20.5
3	64QAM	8	4	19.74	19.68	19.74	
3	64QAM	8	7	19.80	19.74	19.79	
3	64QAM	15	0	19.70	19.65	19.64	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.55	21.62	21.49	22.5
1.4	QPSK	1	3	21.44	21.47	21.43	
1.4	QPSK	1	5	21.24	21.33	21.42	
1.4	QPSK	3	0	20.63	20.79	20.76	
1.4	QPSK	3	1	20.48	20.57	20.65	
1.4	QPSK	3	3	20.46	20.49	20.56	
1.4	QPSK	6	0	20.36	20.36	20.29	21.5
1.4	16QAM	1	0	20.97	21.08	20.92	21.5
1.4	16QAM	1	3	20.86	20.84	20.93	
1.4	16QAM	1	5	20.84	20.77	20.87	
1.4	16QAM	3	0	19.80	19.82	19.88	
1.4	16QAM	3	1	19.70	19.77	19.87	
1.4	16QAM	3	3	19.78	19.77	19.85	
1.4	16QAM	6	0	19.70	19.74	19.86	20.5
1.4	64QAM	1	0	20.53	20.76	20.72	21.5
1.4	64QAM	1	3	20.38	20.57	20.59	
1.4	64QAM	1	5	20.33	20.46	20.49	
1.4	64QAM	3	0	19.76	19.87	19.82	
1.4	64QAM	3	1	19.72	19.64	19.70	
1.4	64QAM	3	3	19.76	19.71	19.75	
1.4	64QAM	6	0	19.68	19.63	19.61	20.5

Band 5 (Celluar 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	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.09	23.15	23.11	
10	QPSK	1	25	23.01	23.06	22.97	24
10	QPSK	1	49	22.74	22.92	22.76	
10	QPSK	25	0	22.25	22.29	22.26	
10	QPSK	25	12	22.19	22.08	22.09	23
10	QPSK	25	25	22.13	22.01	22.05	
10	QPSK	50	0	22.05	22.10	21.92	
10	16QAM	1	0	22.54	22.62	22.58	23
10	16QAM	1	25	22.51	22.43	22.54	
10	16QAM	1	49	22.44	22.35	22.42	
10	16QAM	25	0	21.34	21.27	21.23	22
10	16QAM	25	12	21.21	21.10	21.09	
10	16QAM	25	25	21.19	21.18	21.10	
10	16QAM	50	0	21.15	21.08	20.93	23
10	64QAM	1	0	22.19	22.26	22.22	
10	64QAM	1	25	22.16	22.06	22.21	
10	64QAM	1	49	22.13	22.00	22.11	22
10	64QAM	25	0	21.31	21.33	21.28	
10	64QAM	25	12	21.25	20.93	21.11	
10	64QAM	25	25	21.18	20.89	21.09	
10	64QAM	50	0	21.07	20.94	20.91	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	24
5	QPSK	1	0	23.07	23.13	23.07	
5	QPSK	1	12	22.96	23.02	22.92	
5	QPSK	1	24	22.70	22.89	22.72	23
5	QPSK	12	0	22.21	22.25	22.21	
5	QPSK	12	7	22.16	22.05	22.04	
5	QPSK	12	13	22.09	21.96	22.02	23
5	QPSK	25	0	22.01	22.08	21.88	
5	16QAM	1	0	22.50	22.58	22.56	
5	16QAM	1	12	22.47	22.40	22.52	23
5	16QAM	1	24	22.40	22.30	22.39	
5	16QAM	12	0	21.32	21.24	21.18	22
5	16QAM	12	7	21.16	21.07	21.06	
5	16QAM	12	13	21.14	21.15	21.06	
5	16QAM	25	0	21.11	21.06	20.88	23
5	64QAM	1	0	22.14	22.23	22.17	
5	64QAM	1	12	22.14	22.01	22.16	
5	64QAM	1	24	22.11	21.96	22.06	22
5	64QAM	12	0	21.29	21.31	21.26	
5	64QAM	12	7	21.21	20.90	21.08	
5	64QAM	12	13	21.14	20.86	21.05	
5	64QAM	25	0	21.04	20.90	20.88	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	24
3	QPSK	1	0	23.04	23.08	23.02	
3	QPSK	1	8	22.94	22.98	22.88	
3	QPSK	1	14	22.67	22.85	22.70	23
3	QPSK	8	0	22.19	22.21	22.16	
3	QPSK	8	4	22.12	22.02	22.02	
3	QPSK	8	7	22.04	21.93	21.99	23
3	QPSK	15	0	21.96	22.04	21.83	
3	16QAM	1	0	22.47	22.55	22.54	
3	16QAM	1	8	22.45	22.35	22.48	23
3	16QAM	1	14	22.36	22.26	22.35	
3	16QAM	8	0	21.27	21.19	21.14	
3	16QAM	8	4	21.14	21.03	21.03	22
3	16QAM	8	7	21.10	21.12	21.03	
3	16QAM	15	0	21.08	21.02	20.84	
3	64QAM	1	0	22.11	22.21	22.14	23
3	64QAM	1	8	22.11	21.98	22.13	
3	64QAM	1	14	22.07	21.93	22.03	
3	64QAM	8	0	21.26	21.29	21.22	22
3	64QAM	8	4	21.17	20.88	21.06	
3	64QAM	8	7	21.10	20.81	21.01	
3	64QAM	15	0	21.02	20.88	20.83	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	24
1.4	QPSK	1	0	22.98	23.05	22.98	
1.4	QPSK	1	3	22.88	22.92	22.82	
1.4	QPSK	1	5	22.62	22.79	22.63	23
1.4	QPSK	3	0	22.13	22.17	22.11	
1.4	QPSK	3	1	22.07	21.96	21.95	
1.4	QPSK	3	3	22.00	21.88	21.94	23
1.4	QPSK	6	0	21.93	22.01	21.81	
1.4	16QAM	1	0	22.43	22.51	22.48	
1.4	16QAM	1	3	22.39	22.32	22.44	23
1.4	16QAM	1	5	22.31	22.23	22.31	
1.4	16QAM	3	0	21.23	21.17	21.09	
1.4	16QAM	3	1	21.07	21.00	20.97	22
1.4	16QAM	3	3	21.04	21.07	20.98	
1.4	16QAM	6	0	21.01	20.97	20.78	
1.4	64QAM	1	0	22.05	22.14	22.09	23
1.4	64QAM	1	3	22.07	21.93	22.08	
1.4	64QAM	1	5	22.04	21.88	21.97	
1.4	64QAM	3	0	21.21	21.21	21.18	23
1.4	64QAM	3	1	21.12	20.82	20.99	
1.4	64QAM	3	3	21.06	20.77	20.97	
1.4	64QAM	6	0	20.95	20.82	20.80	22

Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.12	22.25	22.09	23
20	QPSK	1	49	22.04	22.13	21.95	
20	QPSK	1	99	21.92	22.08	21.76	
20	QPSK	50	0	20.89	21.00	20.97	22
20	QPSK	50	24	20.85	20.91	20.98	
20	QPSK	50	50	20.96	20.98	20.90	
20	QPSK	100	0	20.85	20.88	20.83	22
20	16QAM	1	0	21.44	21.54	21.52	
20	16QAM	1	49	21.26	21.40	21.36	
20	16QAM	1	99	21.17	21.37	21.28	21
20	16QAM	50	0	20.50	20.59	20.52	
20	16QAM	50	24	20.34	20.51	20.37	
20	16QAM	50	50	20.22	20.49	20.34	22
20	16QAM	100	0	20.19	20.31	20.28	
20	64QAM	1	0	21.15	21.31	21.30	
20	64QAM	1	49	20.97	21.16	21.12	21.5
20	64QAM	1	99	20.85	21.03	21.06	
20	64QAM	50	0	19.89	20.03	20.06	
20	64QAM	50	24	19.86	19.92	19.91	
20	64QAM	50	50	19.83	19.82	19.78	
20	64QAM	100	0	19.71	19.66	19.63	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	23
15	QPSK	1	0	22.09	22.20	22.06	
15	QPSK	1	37	22.00	22.10	21.93	
15	QPSK	1	74	21.88	22.04	21.73	22
15	QPSK	36	0	20.86	20.97	20.92	
15	QPSK	36	20	20.82	20.86	20.95	
15	QPSK	36	39	20.92	20.94	20.87	22
15	QPSK	75	0	20.82	20.83	20.78	
15	16QAM	1	0	21.40	21.51	21.48	
15	16QAM	1	37	21.24	21.38	21.32	21
15	16QAM	1	74	21.13	21.34	21.24	
15	16QAM	36	0	20.48	20.57	20.49	
15	16QAM	36	20	20.31	20.49	20.34	22
15	16QAM	36	39	20.20	20.44	20.30	
15	16QAM	75	0	20.17	20.26	20.25	
15	64QAM	1	0	21.13	21.28	21.27	21.5
15	64QAM	1	37	20.94	21.12	21.09	
15	64QAM	1	74	20.81	20.98	21.04	
15	64QAM	36	0	19.85	20.00	20.03	
15	64QAM	36	20	19.82	19.87	19.87	
15	64QAM	36	39	19.79	19.80	19.74	
15	64QAM	75	0	19.66	19.63	19.60	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	23
10	QPSK	1	0	22.04	22.17	22.02	
10	QPSK	1	25	21.96	22.07	21.90	
10	QPSK	1	49	21.84	22.00	21.71	22
10	QPSK	25	0	20.82	20.94	20.89	
10	QPSK	25	12	20.79	20.82	20.93	
10	QPSK	25	25	20.88	20.90	20.85	22
10	QPSK	50	0	20.78	20.80	20.75	
10	16QAM	1	0	21.35	21.48	21.45	
10	16QAM	1	25	21.20	21.35	21.29	21
10	16QAM	1	49	21.10	21.30	21.21	
10	16QAM	25	0	20.45	20.55	20.45	
10	16QAM	25	12	20.28	20.46	20.30	22
10	16QAM	25	25	20.16	20.40	20.25	
10	16QAM	50	0	20.13	20.23	20.21	
10	64QAM	1	0	21.08	21.24	21.25	21.5
10	64QAM	1	25	20.90	21.09	21.06	
10	64QAM	1	49	20.76	20.95	21.01	
10	64QAM	25	0	19.83	19.98	19.99	
10	64QAM	25	12	19.77	19.83	19.85	
10	64QAM	25	25	19.77	19.76	19.72	
10	64QAM	50	0	19.63	19.60	19.56	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	23
5	QPSK	1	0	22.01	22.15	21.99	
5	QPSK	1	12	21.93	22.03	21.87	
5	QPSK	1	24	21.81	21.97	21.67	22
5	QPSK	12	0	20.77	20.92	20.85	
5	QPSK	12	7	20.76	20.78	20.89	
5	QPSK	12	13	20.85	20.88	20.82	21
5	QPSK	25	0	20.73	20.77	20.72	
5	16QAM	1	0	21.32	21.46	21.42	
5	16QAM	1	12	21.15	21.33	21.24	22
5	16QAM	1	24	21.07	21.25	21.16	
5	16QAM	12	0	20.42	20.52	20.42	
5	16QAM	12	7	20.24	20.43	20.27	21.5
5	16QAM	12	13	20.11	20.36	20.22	
5	16QAM	25	0	20.10	20.21	20.17	
5	64QAM	1	0	21.04	21.20	21.22	22
5	64QAM	1	12	20.86	21.04	21.01	
5	64QAM	1	24	20.83	20.92	20.96	
5	64QAM	12	0	19.79	19.95	19.95	21.5
5	64QAM	12	7	19.73	19.81	19.81	
5	64QAM	12	13	19.75	19.73	19.69	
5	64QAM	25	0	19.59	19.57	19.52	

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	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.16	23.29	23.12	24
10	QPSK	1	25	23.10	23.15	22.96	
10	QPSK	1	49	22.98	22.98	22.90	
10	QPSK	25	0	22.15	22.16	22.01	23
10	QPSK	25	12	22.01	22.08	21.98	
10	QPSK	25	25	21.91	21.95	21.92	
10	QPSK	50	0	21.72	21.87	21.72	23
10	16QAM	1	0	22.33	22.43	22.29	
10	16QAM	1	25	22.29	22.29	22.22	
10	16QAM	1	49	22.23	22.16	22.19	22
10	16QAM	25	0	21.45	21.39	21.32	
10	16QAM	25	12	21.39	21.26	21.28	
10	16QAM	25	25	21.33	21.19	21.18	23
10	16QAM	50	0	21.27	21.11	21.09	
10	64QAM	1	0	22.16	22.23	22.08	
10	64QAM	1	25	22.14	22.14	21.99	22
10	64QAM	1	49	22.05	22.03	21.89	
10	64QAM	25	0	21.47	21.49	21.30	
10	64QAM	25	12	21.29	21.47	21.13	22
10	64QAM	25	25	21.30	21.43	21.18	
10	64QAM	50	0	21.22	21.26	21.02	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)
5	QPSK	1	0	23.13	23.27	23.09	
5	QPSK	1	12	23.08	23.10	22.91	24
5	QPSK	1	24	22.96	22.93	22.87	
5	QPSK	12	0	22.11	22.12	21.96	
5	QPSK	12	7	21.98	22.06	21.91	23
5	QPSK	12	13	21.88	21.90	21.88	
5	QPSK	25	0	21.70	21.83	21.69	
5	16QAM	1	0	22.29	22.38	22.27	23
5	16QAM	1	12	22.24	22.24	22.19	
5	16QAM	1	24	22.19	22.14	22.15	
5	16QAM	12	0	21.42	21.35	21.28	22
5	16QAM	12	7	21.36	21.22	21.24	
5	16QAM	12	13	21.30	21.16	21.15	
5	16QAM	25	0	21.23	21.07	21.05	23
5	64QAM	1	0	22.12	22.19	22.06	
5	64QAM	1	12	22.10	22.11	21.95	
5	64QAM	1	24	22.01	21.98	21.85	22
5	64QAM	12	0	21.44	21.46	21.25	
5	64QAM	12	7	21.25	21.42	21.09	
5	64QAM	12	13	21.26	21.40	21.15	22
5	64QAM	25	0	21.20	21.22	20.98	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	Tune-up limit (dBm)
3	QPSK	1	0	23.11	23.24	23.06	
3	QPSK	1	8	23.03	23.07	22.87	24
3	QPSK	1	14	22.93	22.88	22.83	
3	QPSK	8	0	22.08	22.08	21.93	
3	QPSK	8	4	21.95	22.02	21.89	23
3	QPSK	8	7	21.85	21.86	21.85	
3	QPSK	15	0	21.68	21.79	21.64	
3	16QAM	1	0	22.26	22.36	22.23	23
3	16QAM	1	8	22.19	22.22	22.16	
3	16QAM	1	14	22.14	22.11	22.12	
3	16QAM	8	0	21.38	21.32	21.25	22
3	16QAM	8	4	21.31	21.19	21.21	
3	16QAM	8	7	21.26	21.14	21.12	
3	16QAM	15	0	21.19	21.04	21.01	23
3	64QAM	1	0	22.08	22.15	22.03	
3	64QAM	1	8	22.06	22.08	21.90	
3	64QAM	1	14	21.97	21.95	21.81	22
3	64QAM	8	0	21.40	21.41	21.22	
3	64QAM	8	4	21.22	21.39	21.04	
3	64QAM	8	7	21.21	21.36	21.11	22
3	64QAM	15	0	21.17	21.17	20.95	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	Tune-up limit (dBm)
1.4	QPSK	1	0	23.07	23.19	23.03	
1.4	QPSK	1	3	23.01	23.02	22.83	24
1.4	QPSK	1	5	22.91	22.85	22.78	
1.4	QPSK	3	0	22.03	22.05	21.88	
1.4	QPSK	3	1	21.93	21.99	21.86	23
1.4	QPSK	3	3	21.82	21.83	21.82	
1.4	QPSK	6	0	21.65	21.77	21.62	
1.4	16QAM	1	0	22.24	22.33	22.18	23
1.4	16QAM	1	3	22.17	22.18	22.12	
1.4	16QAM	1	5	22.11	22.09	22.08	
1.4	16QAM	3	0	21.33	21.28	21.21	22
1.4	16QAM	3	1	21.28	21.15	21.18	
1.4	16QAM	3	3	21.21	21.12	21.09	
1.4	16QAM	6	0	21.16	21.02	20.97	23
1.4	64QAM	1	0	22.04	22.10	21.99	
1.4	64QAM	1	3	22.02	22.05	21.85	
1.4	64QAM	1	5	21.93	21.93	21.76	23
1.4	64QAM	3	0	21.37	21.37	21.18	
1.4	64QAM	3	1	21.19	21.36	21.02	
1.4	64QAM	3	3	21.17	21.33	21.08	22
1.4	64QAM	6	0	21.14	21.14	20.93	

Band 17 (700MHz Band) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23780	23800	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.13	23.26	23.08	24
10	QPSK	1	25	23.03	23.18	23.00	
10	QPSK	1	49	22.89	23.01	22.93	
10	QPSK	25	0	22.16	22.24	22.21	23
10	QPSK	25	12	22.01	22.10	22.05	
10	QPSK	25	25	21.87	22.02	21.84	
10	QPSK	50	0	21.87	21.91	21.85	23
10	16QAM	1	0	22.34	22.44	22.30	
10	16QAM	1	25	22.30	22.33	22.16	
10	16QAM	1	49	22.26	22.20	22.08	22
10	16QAM	25	0	21.56	21.47	21.41	
10	16QAM	25	12	21.50	21.34	21.38	
10	16QAM	25	25	21.46	21.24	21.36	23
10	16QAM	50	0	21.38	21.05	21.28	
10	64QAM	1	0	22.30	22.33	22.25	
10	64QAM	1	25	22.25	22.17	22.20	22
10	64QAM	1	49	22.20	22.04	22.11	
10	64QAM	25	0	21.38	21.43	21.23	
10	64QAM	25	12	21.21	21.10	21.04	22
10	64QAM	25	25	21.20	21.15	21.08	
10	64QAM	50	0	21.08	21.11	21.03	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	Tune-up limit (dBm)
5	QPSK	1	0	22.94	23.09	22.88	
5	QPSK	1	12	22.84	23.01	22.81	24
5	QPSK	1	24	22.71	22.83	22.73	
5	QPSK	12	0	21.97	22.06	22.03	
5	QPSK	12	7	21.82	21.91	21.86	23
5	QPSK	12	13	21.78	21.83	21.75	
5	QPSK	25	0	21.70	21.74	21.66	
5	16QAM	1	0	22.16	22.26	22.12	23
5	16QAM	1	12	22.12	22.13	21.97	
5	16QAM	1	24	22.07	22.03	21.90	
5	16QAM	12	0	21.39	21.30	21.24	22
5	16QAM	12	7	21.32	21.15	21.19	
5	16QAM	12	13	21.28	21.06	21.19	
5	16QAM	25	0	21.21	20.86	21.08	23
5	64QAM	1	0	22.11	22.14	22.06	
5	64QAM	1	12	22.06	21.98	22.02	
5	64QAM	1	24	22.01	21.86	21.93	22
5	64QAM	12	0	21.20	21.24	21.06	
5	64QAM	12	7	21.03	20.91	20.86	
5	64QAM	12	13	21.03	20.96	20.89	22
5	64QAM	25	0	20.91	20.92	20.85	

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	21.51	21.75	21.61	22.5
20	QPSK	1	49	21.43	21.55	21.47	
20	QPSK	1	99	21.47	21.40	21.41	
20	QPSK	50	0	20.51	20.64	20.58	21.5
20	QPSK	50	24	20.40	20.47	20.45	
20	QPSK	50	50	20.33	20.40	20.31	
20	QPSK	100	0	20.24	20.28	20.23	21.5
20	16QAM	1	0	21.18	21.27	21.16	
20	16QAM	1	49	21.13	21.14	21.00	
20	16QAM	1	99	21.08	21.02	20.89	20.5
20	16QAM	50	0	19.88	20.00	19.95	
20	16QAM	50	24	19.83	19.86	19.92	
20	16QAM	50	50	19.80	19.77	19.87	21.5
20	16QAM	100	0	19.70	19.39	19.61	
20	64QAM	1	0	20.53	20.55	20.47	
20	64QAM	1	49	20.48	20.40	20.42	20.5
20	64QAM	1	99	20.41	20.25	20.33	
20	64QAM	50	0	19.91	19.96	19.89	
20	64QAM	50	24	19.89	19.76	19.89	20.5
20	64QAM	50	50	19.87	19.83	19.76	
20	64QAM	100	0	19.90	19.92	19.85	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.47	21.71	21.58	22.5
15	QPSK	1	37	21.39	21.52	21.45	
15	QPSK	1	74	21.43	21.38	21.37	
15	QPSK	36	0	20.48	20.60	20.54	21.5
15	QPSK	36	20	20.38	20.43	20.42	
15	QPSK	36	39	20.30	20.37	20.26	
15	QPSK	75	0	20.19	20.25	20.19	21.5
15	16QAM	1	0	21.15	21.24	21.12	
15	16QAM	1	37	21.10	21.09	20.96	
15	16QAM	1	74	21.05	21.00	20.85	20.5
15	16QAM	36	0	19.84	19.97	19.91	
15	16QAM	36	20	19.79	19.81	19.88	
15	16QAM	36	39	19.76	19.73	19.82	21.5
15	16QAM	75	0	19.67	19.36	19.59	
15	64QAM	1	0	20.51	20.50	20.43	
15	64QAM	1	37	20.46	20.36	20.39	20.5
15	64QAM	1	74	20.37	20.21	20.29	
15	64QAM	36	0	19.88	19.92	19.86	
15	64QAM	36	20	19.85	19.74	19.86	20.5
15	64QAM	36	39	19.82	19.80	19.72	
15	64QAM	75	0	19.88	19.90	19.82	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.43	21.66	21.54	22.5
10	QPSK	1	25	21.36	21.48	21.42	
10	QPSK	1	49	21.39	21.35	21.33	
10	QPSK	25	0	20.46	20.57	20.51	21.5
10	QPSK	25	12	20.35	20.39	20.40	
10	QPSK	25	25	20.27	20.32	20.22	
10	QPSK	50	0	20.16	20.22	20.15	21.5
10	16QAM	1	0	21.11	21.20	21.09	
10	16QAM	1	25	21.08	21.05	20.93	
10	16QAM	1	49	21.00	20.98	20.81	20.5
10	16QAM	25	0	19.79	19.95	19.87	
10	16QAM	25	12	19.77	19.78	19.85	
10	16QAM	25	25	19.72	19.69	19.79	21.5
10	16QAM	50	0	19.65	19.34	19.55	
10	64QAM	1	0	20.48	20.47	20.38	
10	64QAM	1	25	20.42	20.33	20.37	20.5
10	64QAM	1	49	20.34	20.17	20.24	
10	64QAM	25	0	19.83	19.88	19.82	
10	64QAM	25	12	19.82	19.70	19.81	21.5
10	64QAM	25	25	19.80	19.75	19.69	
10	64QAM	50	0	19.85	19.87	19.77	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.39	21.64	21.52	22.5
5	QPSK	1	12	21.33	21.44	21.38	
5	QPSK	1	24	21.35	21.31	21.28	
5	QPSK	12	0	20.42	20.55	20.48	21.5
5	QPSK	12	7	20.32	20.34	20.37	
5	QPSK	12	13	20.25	20.30	20.19	
5	QPSK	25	0	20.14	20.20	20.11	21.5
5	16QAM	1	0	21.08	21.15	21.07	
5	16QAM	1	12	21.04	21.01	20.89	
5	16QAM	1	24	20.98	20.95	20.77	20.5
5	16QAM	12	0	19.76	19.92	19.84	
5	16QAM	12	7	19.72	19.75	19.83	
5	16QAM	12	13	19.69	19.66	19.75	21.5
5	16QAM	25	0	19.61	19.30	19.51	
5	64QAM	1	0	20.45	20.45	20.34	
5	64QAM	1	12	20.40	20.28	20.32	20.5
5	64QAM	1	24	20.31	20.13	20.22	
5	64QAM	12	0	19.79	19.84	19.80	
5	64QAM	12	7	19.79	19.67	19.77	21.5
5	64QAM	12	13	19.77	19.71	19.67	
5	64QAM	25	0	19.81	19.84	19.72	
Channel				131967	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.39	21.62	21.52	22.5
3	QPSK	1	8	21.32	21.45	21.37	
3	QPSK	1	14	21.35	21.32	21.29	
3	QPSK	8	0	20.41	20.53	20.46	21.5
3	QPSK	8	4	20.31	20.36	20.36	
3	QPSK	8	7	20.22	20.29	20.19	

3	QPSK	15	0	20.11	20.18	20.10	21.5
3	16QAM	1	0	21.07	21.15	21.04	
3	16QAM	1	8	21.06	21.00	20.89	
3	16QAM	1	14	20.95	20.94	20.79	20.5
3	16QAM	8	0	19.75	19.90	19.83	
3	16QAM	8	4	19.74	19.73	19.81	
3	16QAM	8	7	19.70	19.64	19.75	
3	16QAM	15	0	19.62	19.30	19.50	21.5
3	64QAM	1	0	20.46	20.43	20.36	
3	64QAM	1	8	20.38	20.28	20.33	
3	64QAM	1	14	20.30	20.13	20.21	20.5
3	64QAM	8	0	19.81	19.83	19.79	
3	64QAM	8	4	19.79	19.65	19.79	
3	64QAM	8	7	19.77	19.73	19.65	
3	64QAM	15	0	19.81	19.83	19.73	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.37	21.60	21.48	22.5
1.4	QPSK	1	3	21.28	21.41	21.34	
1.4	QPSK	1	5	21.32	21.28	21.25	
1.4	QPSK	3	0	20.37	20.50	20.43	
1.4	QPSK	3	1	20.27	20.31	20.32	
1.4	QPSK	3	3	20.19	20.24	20.15	
1.4	QPSK	6	0	20.08	20.16	20.08	21.5
1.4	16QAM	1	0	21.04	21.11	21.01	21.5
1.4	16QAM	1	3	21.03	20.95	20.87	
1.4	16QAM	1	5	20.91	20.89	20.74	
1.4	16QAM	3	0	19.72	19.86	19.78	
1.4	16QAM	3	1	19.71	19.69	19.78	
1.4	16QAM	3	3	19.67	19.62	19.73	
1.4	16QAM	6	0	19.58	19.27	19.46	20.5
1.4	64QAM	1	0	20.42	20.39	20.32	21.5
1.4	64QAM	1	3	20.34	20.23	20.29	
1.4	64QAM	1	5	20.26	20.08	20.17	
1.4	64QAM	3	0	19.79	19.80	19.76	
1.4	64QAM	3	1	19.75	19.62	19.75	
1.4	64QAM	3	3	19.72	19.66	19.60	
1.4	64QAM	6	0	19.79	19.79	19.70	20.5

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	11.86	12.50	8.00	98.78
		CH 7	2442	7.39	8.00	8.00	
		CH 13	2472	11.26	12.00	8.00	
	802.11g 6Mbps	CH 1	2412	10.50	11.00	9.00	91.19
		CH 7	2442	7.26	8.00	9.00	
		CH 13	2472	10.59	11.00	9.00	
	802.11n-HT20 MCS0	CH 1	2412	10.79	11.50	9.00	91.38
		CH 7	2442	7.80	8.50	9.00	
		CH 13	2472	10.20	11.00	9.00	
	802.11n-HT40 MCS0	CH 1	2412	10.79	11.50	9.00	82.29
		CH 7	2442	7.80	8.50	9.00	
		CH 13	2472	10.20	11.00	9.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	4.73	3.62	3.66
	CH 39	2441	6.60	5.42	5.53
	CH 78	2480	4.89	3.93	4.06
Tune-up Limit			7	6	6
Duty Cycle %			77.6	76.8	77.33

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	-2.71
	CH 19	2440	-1.60
	CH 39	2480	-2.76
Tune-up Limit			-1
Duty Cycle %			32

Reduced 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	26.35	26.55	26.49	27.50	17.35	17.55	17.49	18.50	0.20
GPRS 1 Tx slot	26.38	26.50	26.44	27.50	17.38	17.50	17.44	18.50	
GPRS 2 Tx slots	24.23	24.35	24.26	25.00	18.23	18.35	18.26	19.00	0.12
GPRS 3 Tx slots	22.11	22.36	22.31	23.00	17.85	18.10	18.05	18.74	0.25
GPRS 4 Tx slots	20.09	20.18	20.18	20.50	17.09	17.18	17.18	17.50	0.09
EDGE 1 Tx slot	21.08	21.22	21.18	22.00	12.08	12.22	12.18	13.00	0.14
EDGE 2 Tx slots	20.04	20.28	20.22	21.00	14.04	14.28	14.22	15.00	0.24
EDGE 3 Tx slots	19.10	19.23	19.28	20.00	14.84	14.97	15.02	15.74	0.18
EDGE 4 Tx slots	18.10	18.25	18.24	19.00	15.10	15.25	15.24	16.00	0.15
Mode		Max.	26.55			Max.	18.35		
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	20.73	21.04	20.91	22.00	11.73	12.04	11.91	13.00	0.35
GPRS 1 Tx slot	20.69	21.00	20.85	22.00	11.69	12.00	11.85	13.00	
GPRS 2 Tx slots	18.37	18.74	18.70	19.00	12.37	12.74	12.70	13.00	0.37
GPRS 3 Tx slots	17.57	17.85	17.70	18.50	13.31	13.59	13.44	14.24	0.28
GPRS 4 Tx slots	14.98	15.28	15.23	15.50	11.98	12.28	12.23	12.50	0.30
EDGE 1 Tx slot	16.75	17.14	16.99	17.50	7.75	8.14	7.99	8.50	0.39
EDGE 2 Tx slots	15.35	15.45	15.30	16.00	9.35	9.45	9.30	10.00	0.15
EDGE 3 Tx slots	14.64	14.73	14.63	15.50	10.38	10.47	10.37	11.24	0.10
EDGE 4 Tx slots	13.56	13.61	13.57	14.00	10.56	10.61	10.57	11.00	0.05
Mode		Max.	21.04			Max.	13.59		
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	18.07	18.19	18.14	19.00	17.71	17.76	17.65	19.00	18.01	18.03	17.99	19.00
3GPP Rel 6 HSDPA Subtest-1	17.62	16.56	16.53	18.00	17.60	16.50	17.70	18.50	16.18	16.52	16.23	17.00
3GPP Rel 6 HSDPA Subtest-2	17.28	16.23	16.21	13.00	17.55	16.49	17.64	18.00	15.95	16.21	15.94	17.00
3GPP Rel 6 HSDPA Subtest-3	17.46	16.46	16.41	18.00	17.54	16.51	17.63	18.00	15.65	15.89	15.64	16.50
3GPP Rel 6 HSDPA Subtest-4	17.15	16.13	16.09	18.00	17.57	16.53	17.65	18.00	15.56	15.81	15.56	16.50
3GPP Rel 6 HSUPA Subtest-1	17.58	16.61	16.54	18.00	17.57	16.53	17.66	18.00	16.90	17.06	16.76	17.50
3GPP Rel 6 HSUPA Subtest-2	17.59	16.56	16.49	18.00	17.53	16.47	17.63	18.00	16.92	17.06	16.72	17.50
3GPP Rel 6 HSUPA Subtest-3	17.54	16.58	16.50	18.00	17.58	16.51	17.62	18.00	16.92	16.95	16.73	17.50
3GPP Rel 6 HSUPA Subtest-4	17.59	16.55	16.48	18.00	17.56	16.46	17.63	18.00	16.88	17.07	16.70	17.50
3GPP Rel 6 HSUPA Subtest-5	17.58	16.59	16.52	18.00	17.57	16.51	17.64	18.00	16.93	16.99	16.73	17.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	17.54	16.60	16.55	18.00	17.55	16.54	17.63	18.00	16.93	16.85	16.76	17.50
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode		Max.	18.19			Max.	17.76			Max.	18.03	

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	13.57	13.66	13.61	14.5		
20	QPSK	1	49	13.53	13.52	13.49			
20	QPSK	1	99	13.42	13.38	13.36			
20	QPSK	50	0	12.74	12.79	12.70			
20	QPSK	50	24	12.54	12.62	12.50	13.5		
20	QPSK	50	50	12.45	12.59	12.47			
20	QPSK	100	0	12.36	12.56	12.35			
20	16QAM	1	0	12.41	12.64	12.45			
20	16QAM	1	49	12.35	12.45	12.30	13.5		
20	16QAM	1	99	12.29	12.36	12.17			
20	16QAM	50	0	11.88	11.87	11.77			
20	16QAM	50	24	11.82	11.67	11.62			
20	16QAM	50	50	11.72	11.60	11.51	12.5		
20	16QAM	100	0	11.67	11.56	11.42			
20	64QAM	1	0	12.27	12.46	12.22			
20	64QAM	1	49	12.12	12.26	12.07			
20	64QAM	1	99	12.04	12.23	12.02	13		
20	64QAM	50	0	11.68	11.65	11.54			
20	64QAM	50	24	11.66	11.50	11.51			
20	64QAM	50	50	11.53	11.40	11.40			
20	64QAM	100	0	11.47	11.27	11.30	12		
Channel				18675	18900	19125			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	13.55	13.63	13.58	14.5		
15	QPSK	1	37	13.50	13.47	13.46			
15	QPSK	1	74	13.37	13.34	13.34			
15	QPSK	36	0	12.70	12.75	12.67			
15	QPSK	36	20	12.52	12.59	12.47	13.5		
15	QPSK	36	39	12.43	12.55	12.43			
15	QPSK	75	0	12.33	12.53	12.33			
15	16QAM	1	0	12.37	12.62	12.42			
15	16QAM	1	37	12.31	12.43	12.25	13.5		
15	16QAM	1	74	12.25	12.32	12.14			
15	16QAM	36	0	11.86	11.83	11.74			
15	16QAM	36	20	11.79	11.64	11.57			
15	16QAM	36	39	11.69	11.56	11.49	12.5		
15	16QAM	75	0	11.62	11.51	11.40			
15	64QAM	1	0	12.24	12.43	12.18			
15	64QAM	1	37	12.09	12.22	12.04			
15	64QAM	1	74	12.02	12.19	11.98	13		
15	64QAM	36	0	11.64	11.60	11.49			
15	64QAM	36	20	11.62	11.47	11.47			
15	64QAM	36	39	11.51	11.38	11.36			
15	64QAM	75	0	11.44	11.23	11.27	12		
Channel				18650	18900	19150			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	13.50	13.60	13.56	14.5		
10	QPSK	1	25	13.47	13.43	13.42			
10	QPSK	1	49	13.34	13.29	13.30			
10	QPSK	25	0	12.65	12.71	12.62			
10	QPSK	25	12	12.48	12.54	12.43	13.5		
10	QPSK	25	25	12.39	12.52	12.40			
10	QPSK	50	0	12.29	12.49	12.29			
10	16QAM	1	0	12.33	12.58	12.38			
10	16QAM	1	25	12.28	12.40	12.22	13.5		
10	16QAM	1	49	12.22	12.29	12.11			
10	16QAM	25	0	11.83	11.79	11.69			
10	16QAM	25	12	11.76	11.60	11.53			
10	16QAM	25	25	11.65	11.51	11.45	12.5		
10	16QAM	50	0	11.59	11.46	11.37			
10	64QAM	1	0	12.21	12.39	12.14			
10	64QAM	1	25	12.07	12.19	12.02			
10	64QAM	1	49	11.99	12.15	11.94	13		
10	64QAM	25	0	11.61	11.56	11.46			
10	64QAM	25	12	11.58	11.42	11.43			
10	64QAM	25	25	11.47	11.35	11.33			
10	64QAM	50	0	11.40	11.21	11.22	12		
Channel				18625	18900	19175			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	13.46	13.55	13.52	14.5		
5	QPSK	1	12	13.43	13.39	13.40			
5	QPSK	1	24	13.31	13.26	13.27			
5	QPSK	12	0	12.63	12.66	12.60			
5	QPSK	12	7	12.47	12.52	12.39	13.5		
5	QPSK	12	13	12.38	12.48	12.37			
5	QPSK	25	0	12.27	12.44	12.26			
5	16QAM	1	0	12.30	12.54	12.37			
5	16QAM	1	12	12.23	12.36	12.16	13.5		
5	16QAM	1	24	12.19	12.25	12.08			
5	16QAM	12	0	11.77	11.77	11.68			
5	16QAM	12	7	11.73	11.57	11.48			
5	16QAM	12	13	11.63	11.49	11.41	12.5		
5	16QAM	25	0	11.56	11.43	11.33			
5	64QAM	1	0	12.19	12.35	12.12			
5	64QAM	1	12	11.99	12.17	12.00			
5	64QAM	1	24	11.97	12.12	11.89	13		
5	64QAM	12	0	11.59	11.52	11.44			
5	64QAM	12	7	11.56	11.38	11.39			
5	64QAM	12	13	11.44	11.31	11.28			
5	64QAM	25	0	11.37	11.14	11.21	12		
Channel				18615	18900	19185			
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	13.42	13.51	13.48	14.5		
3	QPSK	1	8	13.40	13.36	13.36			
3	QPSK	1	14	13.27	13.23	13.25			
3	QPSK	8	0	12.61	12.63	12.57			
3	QPSK	8	4	12.44	12.49	12.36	13.5		
3	QPSK	8	7	12.34	12.45	12.34			

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	15.15	15.21	15.10	16		
20	QPSK	1	49	15.03	15.08	15.06			
20	QPSK	1	99	14.87	14.92	15.03			
20	QPSK	50	0	14.23	14.39	14.37			
20	QPSK	50	24	14.08	14.19	14.24	15		
20	QPSK	50	50	14.03	14.09	14.15			
20	QPSK	100	0	13.96	13.99	13.90			
20	16QAM	1	0	14.57	14.69	14.54			
20	16QAM	1	49	14.48	14.44	14.56	15		
20	16QAM	1	99	14.45	14.38	14.47			
20	16QAM	50	0	13.39	13.43	13.49			
20	16QAM	50	24	13.31	13.38	13.46			
20	16QAM	50	50	13.38	13.37	13.43	14		
20	16QAM	100	0	13.31	13.32	13.47			
20	64QAM	1	0	14.15	14.34	14.33			
20	64QAM	1	49	14.00	14.16	14.19			
20	64QAM	1	99	13.96	14.09	14.12	15		
20	64QAM	50	0	13.36	13.45	13.45			
20	64QAM	50	24	13.34	13.26	13.31			
20	64QAM	50	50	13.35	13.29	13.35			
20	64QAM	100	0	13.28	13.20	13.21	14		
Channel				20025	20175	20325			
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)		
15	QPSK	1	0	15.11	15.16	15.06	16		
15	QPSK	1	37	14.99	15.04	15.03			
15	QPSK	1	74	14.84	14.87	14.99			
15	QPSK	36	0	14.20	14.36	14.32			
15	QPSK	36	20	14.04	14.14	14.19	15		
15	QPSK	36	39	14.01	14.06	14.11			
15	QPSK	75	0	13.92	13.94	13.87			
15	16QAM	1	0	14.55	14.64	14.50			
15	16QAM	1	37	14.44	14.41	14.52	15		
15	16QAM	1	74	14.43	14.33	14.43			
15	16QAM	36	0	13.34	13.38	13.45			
15	16QAM	36	20	13.26	13.35	13.42			
15	16QAM	36	39	13.33	13.35	13.39	14		
15	16QAM	75	0	13.27	13.28	13.43			
15	64QAM	1	0	14.11	14.31	14.29			
15	64QAM	1	37	13.95	14.13	14.16			
15	64QAM	1	74	13.92	14.05	14.08	15		
15	64QAM	36	0	13.31	13.42	13.41			
15	64QAM	36	20	13.30	13.22	13.27			
15	64QAM	36	39	13.30	13.26	13.32			
15	64QAM	75	0	13.25	13.16	13.16	14		
Channel				20000	20175	20350			
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)		
10	QPSK	1	0	15.12	15.18	15.05	16		
10	QPSK	1	25	15.01	15.04	15.01			
10	QPSK	1	49	14.83	14.88	15.01			
10	QPSK	25	0	14.18	14.36	14.34			
10	QPSK	25	12	14.06	14.15	14.20	15		
10	QPSK	25	25	14.00	14.05	14.13			
10	QPSK	50	0	13.93	13.95	13.88			
10	16QAM	1	0	14.54	14.64	14.50			
10	16QAM	1	25	14.43	14.41	14.52	15		
10	16QAM	1	49	14.40	14.33	14.45			
10	16QAM	25	0	13.36	13.40	13.44			
10	16QAM	25	12	13.28	13.34	13.42			
10	16QAM	25	25	13.34	13.32	13.40	14		
10	16QAM	50	0	13.26	13.29	13.44			
10	64QAM	1	0	14.10	14.32	14.31			
10	64QAM	1	25	13.96	14.12	14.16			
10	64QAM	1	49	13.91	14.04	14.08	15		
10	64QAM	25	0	13.32	13.43	13.41			
10	64QAM	25	12	13.29	13.23	13.27			
10	64QAM	25	25	13.32	13.27	13.31			
10	64QAM	50	0	13.24	13.18	13.18	14		
Channel				19975	20175	20375			
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)		
5	QPSK	1	0	15.08	15.16	15.01	16		
5	QPSK	1	12	14.99	15.01	14.98			
5	QPSK	1	24	14.81	14.84	14.98			
5	QPSK	12	0	14.15	14.33	14.30			
5	QPSK	12	7	14.02	14.11	14.16	15		
5	QPSK	12	13	13.97	14.01	14.10			
5	QPSK	25	0	13.88	13.93	13.84			
5	16QAM	1	0	14.49	14.60	14.48			
5	16QAM	1	12	14.39	14.38	14.48	15		
5	16QAM	1	24	14.36	14.30	14.42			
5	16QAM	12	0	13.34	13.36	13.40			
5	16QAM	12	7	13.23	13.31	13.38			
5	16QAM	12	13	13.31	13.28	13.35	14		
5	16QAM	25	0	13.22	13.25	13.41			
5	64QAM	1	0	14.05	14.29	14.29			
5	64QAM	1	12	13.94	14.08	14.12			
5	64QAM	1	24	13.89	14.01	14.04	15		
5	64QAM	12	0	13.29	13.40	13.39			
5	64QAM	12	7	13.24	13.20	13.22			
5	64QAM	12	13	13.30	13.22	13.28			
5	64QAM	25	0	13.20	13.13	13.14	14		
Channel				19965	20175	20385			
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)		
3	QPSK	1	0	15.09	15.15	15.03	16		
3	QPSK	1	8	14.99	15.01	14.97			
3	QPSK	1	14	14.78	14.86	14.96			
3	QPSK	8	0	14.15	14.32	14.31			
3	QPSK	8	4	14.02	14.11	14.18	15		
3	QPSK	8	7	13.98	14.02	14.10			

3	QPSK	15	0	12.24	12.40	12.22	13.5
3	16QAM	1	0	12.26	12.50	12.32	
3	16QAM	1	8	12.20	12.32	12.13	
3	16QAM	1	14	12.15	12.20	12.03	12.5
3	16QAM	8	0	11.73	11.72	11.63	
3	16QAM	8	4	11.70	11.55	11.45	
3	16QAM	8	7	11.58	11.45	11.38	13
3	16QAM	15	0	11.52	11.38	11.29	
3	64QAM	1	0	12.15	12.31	12.08	
3	64QAM	1	8	11.95	12.14	11.96	12
3	64QAM	1	14	11.94	12.10	11.85	
3	64QAM	8	0	11.55	11.49	11.39	
3	64QAM	8	4	11.52	11.36	11.34	12
3	64QAM	8	7	11.40	11.28	11.25	
3	64QAM	15	0	11.33	11.11	11.17	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	13.44	13.50	13.50	14.5
1.4	QPSK	1	3	13.40	13.37	13.38	
1.4	QPSK	1	5	13.28	13.21	13.25	
1.4	QPSK	3	0	12.61	12.64	12.57	
1.4	QPSK	3	1	12.43	12.50	12.34	
1.4	QPSK	3	3	12.34	12.44	12.33	13.5
1.4	QPSK	6	0	12.24	12.41	12.22	
1.4	16QAM	1	0	12.27	12.49	12.34	13.5
1.4	16QAM	1	3	12.19	12.31	12.11	
1.4	16QAM	1	5	12.14	12.22	12.06	
1.4	16QAM	3	0	11.72	11.73	11.66	
1.4	16QAM	3	1	11.70	11.53	11.45	
1.4	16QAM	3	3	11.61	11.44	11.39	12.5
1.4	16QAM	6	0	11.53	11.40	11.30	
1.4	64QAM	1	0	12.15	12.32	12.09	13
1.4	64QAM	1	3	11.95	12.14	11.97	
1.4	64QAM	1	5	11.93	12.08	11.87	
1.4	64QAM	3	0	11.55	11.49	11.42	
1.4	64QAM	3	1	11.51	11.34	11.34	
1.4	64QAM	3	3	11.40	11.28	11.25	12
1.4	64QAM	6	0	11.34	11.09	11.18	

3	QPSK	15	0	13.90	13.90	13.84	15
3	16QAM	1	0	14.50	14.61	14.45	
3	16QAM	1	8	14.39	14.38	14.47	
3	16QAM	1	14	14.38	14.29	14.41	14
3	16QAM	8	0	13.33	13.36	13.41	
3	16QAM	8	4	13.25	13.30	13.40	
3	16QAM	8	7	13.31	13.30	13.37	15
3	16QAM	15	0	13.24	13.26	13.39	
3	64QAM	1	0	14.05	14.30	14.27	
3	64QAM	1	8	13.92	14.10	14.11	14
3	64QAM	1	14	13.86	14.01	14.04	
3	64QAM	8	0	13.29	13.39	13.37	
3	64QAM	8	4	13.24	13.18	13.24	14
3	64QAM	8	7	13.30	13.24	13.29	
3	64QAM	15	0	13.20	13.15	13.14	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	15.05	15.12	14.99	16
1.4	QPSK	1	3	14.94	14.97	14.93	
1.4	QPSK	1	5	14.74	14.83	14.92	
1.4	QPSK	3	0	14.13	14.29	14.26	
1.4	QPSK	3	1	13.98	14.07	14.15	
1.4	QPSK	3	3	13.96	13.99	14.06	15
1.4	QPSK	6	0	13.86	13.86	13.79	
1.4	16QAM	1	0	14.47	14.58	14.42	15
1.4	16QAM	1	3	14.36	14.34	14.43	
1.4	16QAM	1	5	14.34	14.27	14.37	
1.4	16QAM	3	0	13.30	13.32	13.38	
1.4	16QAM	3	1	13.20	13.27	13.37	
1.4	16QAM	3	3	13.28	13.27	13.35	14
1.4	16QAM	6	0	13.20	13.24	13.36	
1.4	64QAM	1	0	14.03	14.26	14.22	15
1.4	64QAM	1	3	13.88	14.07	14.09	
1.4	64QAM	1	5	13.83	13.96	13.99	
1.4	64QAM	3	0	13.26	13.37	13.32	
1.4	64QAM	3	1	13.22	13.14	13.20	
1.4	64QAM	3	3	13.26	13.21	13.25	14
1.4	64QAM	6	0	13.18	13.13	13.11	

Band 5 (Celluar 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	19
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	18.09	18.15	18.11	
10	QPSK	1	25	18.01	18.06	17.97	18
10	QPSK	1	49	17.74	17.92	17.76	
10	QPSK	25	0	17.25	17.29	17.28	
10	QPSK	25	12	17.19	17.08	17.09	18
10	QPSK	25	25	17.13	17.01	17.05	
10	QPSK	50	0	17.05	17.10	16.92	
10	16QAM	1	0	17.54	17.62	17.58	18
10	16QAM	1	25	17.51	17.43	17.54	
10	16QAM	1	49	17.44	17.35	17.42	
10	16QAM	25	0	16.34	16.27	16.23	17
10	16QAM	25	12	16.21	16.10	16.09	
10	16QAM	25	25	16.19	16.18	16.10	
10	16QAM	50	0	16.15	16.08	15.93	18
10	64QAM	1	0	17.19	17.26	17.22	
10	64QAM	1	25	17.16	17.06	17.21	
10	64QAM	1	49	17.13	17.00	17.11	17
10	64QAM	25	0	16.31	16.33	16.28	
10	64QAM	25	12	16.25	15.93	16.11	
10	64QAM	25	25	16.18	15.89	16.09	17
10	64QAM	50	0	16.07	15.94	15.91	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	19
5	QPSK	1	0	18.07	18.13	18.07	
5	QPSK	1	12	17.96	18.02	17.92	
5	QPSK	1	24	17.70	17.89	17.72	18
5	QPSK	12	0	17.21	17.25	17.21	
5	QPSK	12	7	17.16	17.05	17.04	
5	QPSK	12	13	17.09	16.96	17.02	18
5	QPSK	25	0	17.01	17.08	16.88	
5	16QAM	1	0	17.50	17.58	17.56	
5	16QAM	1	12	17.47	17.40	17.52	18
5	16QAM	1	24	17.40	17.30	17.39	
5	16QAM	12	0	16.32	16.24	16.18	17
5	16QAM	12	7	16.16	16.07	16.06	
5	16QAM	12	13	16.14	16.15	16.06	
5	16QAM	25	0	16.11	16.06	15.88	18
5	64QAM	1	0	17.14	17.23	17.17	
5	64QAM	1	12	17.14	17.01	17.16	
5	64QAM	1	24	17.11	16.96	17.06	17
5	64QAM	12	0	16.29	16.31	16.26	
5	64QAM	12	7	16.21	15.90	16.08	
5	64QAM	12	13	16.14	15.86	16.05	17
5	64QAM	25	0	16.04	15.90	15.88	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	19
3	QPSK	1	0	18.04	18.08	18.02	
3	QPSK	1	8	17.94	17.98	17.88	
3	QPSK	1	14	17.67	17.85	17.70	18
3	QPSK	8	0	17.19	17.21	17.16	
3	QPSK	8	4	17.12	17.02	17.02	
3	QPSK	8	7	17.04	16.93	16.99	18
3	QPSK	15	0	16.96	17.04	16.83	
3	16QAM	1	0	17.47	17.55	17.54	
3	16QAM	1	8	17.45	17.35	17.48	18
3	16QAM	1	14	17.36	17.26	17.35	
3	16QAM	8	0	16.27	16.19	16.14	17
3	16QAM	8	4	16.14	16.03	16.03	
3	16QAM	8	7	16.10	16.12	16.03	
3	16QAM	15	0	16.08	16.02	15.84	18
3	64QAM	1	0	17.11	17.21	17.14	
3	64QAM	1	8	17.11	16.96	17.13	
3	64QAM	1	14	17.07	16.93	17.03	17
3	64QAM	8	0	16.26	16.29	16.22	
3	64QAM	8	4	16.17	15.88	16.06	
3	64QAM	8	7	16.10	15.81	16.01	17
3	64QAM	15	0	16.02	15.88	15.83	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	19
1.4	QPSK	1	0	17.98	18.05	17.98	
1.4	QPSK	1	3	17.88	17.92	17.82	
1.4	QPSK	1	5	17.62	17.79	17.63	18
1.4	QPSK	3	0	17.13	17.17	17.11	
1.4	QPSK	3	1	17.07	16.96	16.95	
1.4	QPSK	3	3	17.00	16.88	16.94	18
1.4	QPSK	6	0	16.93	17.01	16.81	
1.4	16QAM	1	0	17.43	17.51	17.48	
1.4	16QAM	1	3	17.39	17.32	17.44	18
1.4	16QAM	1	5	17.31	17.23	17.31	
1.4	16QAM	3	0	16.23	16.17	16.09	
1.4	16QAM	3	1	16.07	16.00	15.97	17
1.4	16QAM	3	3	16.04	16.07	15.98	
1.4	16QAM	6	0	16.01	15.97	15.78	
1.4	64QAM	1	0	17.05	17.14	17.09	18
1.4	64QAM	1	3	17.07	16.93	17.08	
1.4	64QAM	1	5	17.04	16.88	16.97	
1.4	64QAM	3	0	16.21	16.21	16.18	17
1.4	64QAM	3	1	16.12	15.82	15.99	
1.4	64QAM	3	3	16.06	15.77	15.97	
1.4	64QAM	6	0	15.95	15.82	15.80	17

Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	14.5
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	13.62	13.75	13.59	
20	QPSK	1	49	13.54	13.63	13.45	13.5
20	QPSK	1	99	13.42	13.58	13.26	
20	QPSK	50	0	12.39	12.50	12.47	
20	QPSK	50	24	12.35	12.41	12.48	13.5
20	QPSK	50	50	12.46	12.48	12.40	
20	QPSK	100	0	12.35	12.38	12.33	
20	16QAM	1	0	12.94	13.04	13.02	13.5
20	16QAM	1	49	12.76	12.90	12.86	
20	16QAM	1	99	12.67	12.87	12.78	
20	16QAM	50	0	12.00	12.09	12.02	12.5
20	16QAM	50	24	11.84	12.01	11.87	
20	16QAM	50	50	11.72	11.99	11.84	
20	16QAM	100	0	11.69	11.81	11.78	13.5
20	64QAM	1	0	12.65	12.81	12.80	
20	64QAM	1	49	12.47	12.66	12.62	
20	64QAM	1	99	12.35	12.53	12.56	12
20	64QAM	50	0	11.39	11.53	11.56	
20	64QAM	50	24	11.36	11.42	11.41	
20	64QAM	50	50	11.33	11.32	11.28	12
20	64QAM	100	0	11.21	11.16	11.13	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	14.5
15	QPSK	1	0	13.59	13.70	13.56	
15	QPSK	1	37	13.50	13.60	13.43	
15	QPSK	1	74	13.38	13.54	13.23	13.5
15	QPSK	36	0	12.36	12.47	12.42	
15	QPSK	36	20	12.32	12.36	12.45	
15	QPSK	36	39	12.42	12.44	12.37	13.5
15	QPSK	75	0	12.32	12.33	12.28	
15	16QAM	1	0	12.90	13.01	12.98	
15	16QAM	1	37	12.74	12.88	12.82	13.5
15	16QAM	1	74	12.63	12.84	12.74	
15	16QAM	36	0	11.98	12.07	11.99	
15	16QAM	36	20	11.81	11.99	11.84	12.5
15	16QAM	36	39	11.70	11.94	11.80	
15	16QAM	75	0	11.67	11.76	11.75	
15	64QAM	1	0	12.63	12.78	12.77	13.5
15	64QAM	1	37	12.44	12.62	12.59	
15	64QAM	1	74	12.31	12.48	12.54	
15	64QAM	36	0	11.35	11.50	11.53	12
15	64QAM	36	20	11.32	11.37	11.37	
15	64QAM	36	39	11.29	11.30	11.24	
15	64QAM	75	0	11.16	11.13	11.10	12
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	14.5
10	QPSK	1	0	13.54	13.67	13.52	
10	QPSK	1	25	13.46	13.57	13.40	
10	QPSK	1	49	13.34	13.50	13.21	13.5
10	QPSK	25	0	12.32	12.44	12.39	
10	QPSK	25	12	12.29	12.32	12.43	
10	QPSK	25	25	12.38	12.40	12.35	13.5
10	QPSK	50	0	12.28	12.30	12.25	
10	16QAM	1	0	12.85	12.98	12.95	
10	16QAM	1	25	12.70	12.85	12.79	13.5
10	16QAM	1	49	12.60	12.80	12.71	
10	16QAM	25	0	11.95	12.05	11.95	
10	16QAM	25	12	11.78	11.96	11.80	12.5
10	16QAM	25	25	11.66	11.90	11.75	
10	16QAM	50	0	11.63	11.73	11.71	
10	64QAM	1	0	12.58	12.74	12.75	13.5
10	64QAM	1	25	12.40	12.59	12.56	
10	64QAM	1	49	12.26	12.45	12.51	
10	64QAM	25	0	11.33	11.48	11.49	12
10	64QAM	25	12	11.27	11.33	11.35	
10	64QAM	25	25	11.27	11.26	11.22	
10	64QAM	50	0	11.13	11.10	11.06	12
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	14.5
5	QPSK	1	0	13.51	13.65	13.49	
5	QPSK	1	12	13.43	13.53	13.37	
5	QPSK	1	24	13.31	13.47	13.17	13.5
5	QPSK	12	0	12.27	12.42	12.35	
5	QPSK	12	7	12.26	12.28	12.39	
5	QPSK	12	13	12.35	12.38	12.32	13.5
5	QPSK	25	0	12.23	12.27	12.22	
5	16QAM	1	0	12.82	12.96	12.92	
5	16QAM	1	12	12.85	12.83	12.74	13.5
5	16QAM	1	24	12.57	12.75	12.66	
5	16QAM	12	0	11.92	12.02	11.92	
5	16QAM	12	7	11.74	11.93	11.77	12.5
5	16QAM	12	13	11.61	11.86	11.72	
5	16QAM	25	0	11.60	11.71	11.67	
5	64QAM	1	0	12.54	12.70	12.72	13.5
5	64QAM	1	12	12.36	12.54	12.51	
5	64QAM	1	24	12.33	12.42	12.46	
5	64QAM	12	0	11.29	11.45	11.45	12
5	64QAM	12	7	11.23	11.31	11.31	
5	64QAM	12	13	11.25	11.23	11.19	
5	64QAM	25	0	11.09	11.07	11.02	12

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	
Frequency (MHz)				704	707.5	711	21
10	QPSK	1	0	20.16	20.29	20.12	
10	QPSK	1	25	20.10	20.15	19.96	
10	QPSK	1	49	19.98	19.98	19.90	
10	QPSK	25	0	19.15	19.16	19.01	
10	QPSK	25	12	19.01	19.08	18.98	20
10	QPSK	25	25	18.91	18.95	18.92	
10	QPSK	50	0	18.72	18.87	18.72	
10	16QAM	1	0	19.33	19.43	19.29	
10	16QAM	1	25	19.29	19.29	19.22	
10	16QAM	1	49	19.23	19.16	19.19	20
10	16QAM	25	0	18.45	18.39	18.32	
10	16QAM	25	12	18.39	18.26	18.28	
10	16QAM	25	25	18.33	18.19	18.18	
10	16QAM	50	0	18.27	18.11	18.09	
10	64QAM	1	0	19.16	19.23	19.08	20
10	64QAM	1	25	19.14	19.14	18.99	
10	64QAM	1	49	19.05	19.03	18.89	
10	64QAM	25	0	18.47	18.49	18.30	
10	64QAM	25	12	18.29	18.47	18.13	
10	64QAM	25	25	18.30	18.43	18.18	19
10	64QAM	50	0	18.22	18.26	18.02	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	20.13	20.27	20.09	21
5	QPSK	1	12	20.08	20.10	19.91	
5	QPSK	1	24	19.96	19.93	19.87	
5	QPSK	12	0	19.11	19.12	18.96	
5	QPSK	12	7	18.98	19.06	18.91	
5	QPSK	12	13	18.88	18.90	18.88	20
5	QPSK	25	0	18.70	18.83	18.69	
5	16QAM	1	0	19.29	19.38	19.27	
5	16QAM	1	12	19.24	19.24	19.19	
5	16QAM	1	24	19.19	19.14	19.15	
5	16QAM	12	0	18.42	18.35	18.28	19
5	16QAM	12	7	18.36	18.22	18.24	
5	16QAM	12	13	18.30	18.16	18.15	
5	16QAM	25	0	18.23	18.07	18.05	
5	64QAM	1	0	19.12	19.19	19.06	
5	64QAM	1	12	19.10	19.11	18.95	20
5	64QAM	1	24	19.01	18.98	18.85	
5	64QAM	12	0	18.44	18.46	18.25	
5	64QAM	12	7	18.25	18.42	18.09	
5	64QAM	12	13	18.26	18.40	18.15	
5	64QAM	25	0	18.20	18.22	17.98	19
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	20.11	20.24	20.06	21
3	QPSK	1	8	20.03	20.07	19.87	
3	QPSK	1	14	19.93	19.88	19.83	
3	QPSK	8	0	19.08	19.08	18.93	
3	QPSK	8	4	18.95	19.02	18.89	
3	QPSK	8	7	18.85	18.86	18.85	20
3	QPSK	15	0	18.68	18.79	18.64	
3	16QAM	1	0	19.26	19.36	19.23	
3	16QAM	1	8	19.19	19.22	19.16	
3	16QAM	1	14	19.14	19.11	19.12	
3	16QAM	8	0	18.38	18.32	18.25	19
3	16QAM	8	4	18.31	18.19	18.21	
3	16QAM	8	7	18.28	18.14	18.12	
3	16QAM	15	0	18.19	18.04	18.01	
3	64QAM	1	0	19.08	19.15	19.03	
3	64QAM	1	8	19.06	19.06	18.90	20
3	64QAM	1	14	18.97	18.95	18.81	
3	64QAM	8	0	18.40	18.41	18.22	
3	64QAM	8	4	18.22	18.39	18.04	
3	64QAM	8	7	18.21	18.36	18.11	
3	64QAM	15	0	18.17	18.17	17.95	19
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	20.07	20.19	20.03	21
1.4	QPSK	1	3	20.01	20.02	19.83	
1.4	QPSK	1	5	19.91	19.85	19.78	
1.4	QPSK	3	0	19.03	19.05	18.88	
1.4	QPSK	3	1	18.93	18.99	18.86	
1.4	QPSK	3	3	18.82	18.83	18.82	20
1.4	QPSK	6	0	18.65	18.77	18.62	
1.4	16QAM	1	0	19.24	19.33	19.18	
1.4	16QAM	1	3	19.17	19.18	19.12	
1.4	16QAM	1	5	19.11	19.09	19.08	
1.4	16QAM	3	0	18.33	18.28	18.21	19
1.4	16QAM	3	1	18.28	18.15	18.18	
1.4	16QAM	3	3	18.21	18.12	18.09	
1.4	16QAM	6	0	18.16	18.02	17.97	
1.4	64QAM	1	0	19.04	19.10	18.99	
1.4	64QAM	1	3	19.02	19.05	18.85	20
1.4	64QAM	1	5	18.93	18.93	18.76	
1.4	64QAM	3	0	18.37	18.37	18.18	
1.4	64QAM	3	1	18.19	18.36	18.02	
1.4	64QAM	3	3	18.17	18.33	18.08	
1.4	64QAM	6	0	18.14	18.14	17.93	19

Band 17 (700MHz Band) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	21
10	QPSK	1	0	20.13	20.26	20.08	
10	QPSK	1	25	20.03	20.18	20.00	
10	QPSK	1	49	19.89	20.01	19.93	
10	QPSK	25	0	19.16	19.24	19.21	
10	QPSK	25	12	19.01	19.10	19.05	20
10	QPSK	25	25	18.97	19.02	18.94	
10	QPSK	50	0	18.87	18.91	18.85	
10	16QAM	1	0	19.34	19.44	19.30	
10	16QAM	1	25	19.30	19.33	19.16	
10	16QAM	1	49	19.26	19.20	19.08	20
10	16QAM	25	0	18.56	18.47	18.41	
10	16QAM	25	12	18.50	18.34	18.38	
10	16QAM	25	25	18.46	18.24	18.36	
10	16QAM	50	0	18.38	18.05	18.28	
10	64QAM	1	0	19.30	19.33	19.25	20
10	64QAM	1	25	19.25	19.17	19.20	
10	64QAM	1	49	19.20	19.04	19.11	
10	64QAM	25	0	18.38	18.43	18.23	
10	64QAM	25	12	18.21	18.10	18.04	
10	64QAM	25	25	18.20	18.15	18.08	19
10	64QAM	50	0	18.08	18.11	18.03	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	19.94	20.09	19.88	21
5	QPSK	1	12	19.84	20.01	19.81	
5	QPSK	1	24	19.71	19.83	19.73	
5	QPSK	12	0	18.97	19.06	19.03	
5	QPSK	12	7	18.82	18.91	18.86	
5	QPSK	12	13	18.78	18.83	18.75	20
5	QPSK	25	0	18.70	18.74	18.66	
5	16QAM	1	0	19.16	19.26	19.12	
5	16QAM	1	12	19.12	19.13	18.97	
5	16QAM	1	24	19.07	19.03	18.90	
5	16QAM	12	0	18.39	18.30	18.24	19
5	16QAM	12	7	18.32	18.15	18.19	
5	16QAM	12	13	18.28	18.08	18.19	
5	16QAM	25	0	18.21	17.86	18.08	
5	64QAM	1	0	19.11	19.14	19.06	
5	64QAM	1	12	19.06	18.98	19.02	20
5	64QAM	1	24	19.01	18.86	18.93	
5	64QAM	12	0	18.20	18.24	18.06	
5	64QAM	12	7	18.03	17.91	17.86	
5	64QAM	12	13	18.03	17.96	17.89	
5	64QAM	25	0	17.91	17.92	17.85	19

Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	16
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	15.01	15.25	15.11	15
20	QPSK	1	49	14.93	15.05	14.97	
20	QPSK	1	99	14.97	14.90	14.91	
20	QPSK	50	0	14.01	14.14	14.08	
20	QPSK	50	24	13.90	13.97	13.95	15
20	QPSK	50	50	13.63	13.90	13.81	
20	QPSK	100	0	13.74	13.78	13.73	
20	16QAM	1	0	14.68	14.77	14.66	
20	16QAM	1	49	14.63	14.64	14.50	15
20	16QAM	1	99	14.58	14.52	14.39	
20	16QAM	50	0	13.38	13.50	13.45	
20	16QAM	50	24	13.33	13.36	13.42	
20	16QAM	50	50	13.30	13.27	13.37	14
20	16QAM	100	0	13.20	12.89	13.11	
20	64QAM	1	0	14.03	14.05	13.97	
20	64QAM	1	49	13.98	13.90	13.92	
20	64QAM	1	99	13.91	13.75	13.83	15
20	64QAM	50	0	13.41	13.46	13.39	
20	64QAM	50	24	13.39	13.26	13.39	
20	64QAM	50	50	13.37	13.33	13.26	
20	64QAM	100	0	13.40	13.42	13.35	14
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	16
15	QPSK	1	0	14.97	15.21	15.08	
15	QPSK	1	37	14.89	15.02	14.95	15
15	QPSK	1	74	14.93	14.88	14.87	
15	QPSK	36	0	13.98	14.10	14.04	
15	QPSK	36	20	13.88	13.93	13.92	
15	QPSK	36	39	13.80	13.67	13.76	15
15	QPSK	75	0	13.69	13.75	13.69	
15	16QAM	1	0	14.65	14.74	14.62	
15	16QAM	1	37	14.60	14.59	14.46	
15	16QAM	1	74	14.55	14.50	14.35	14
15	16QAM	36	0	13.34	13.47	13.41	
15	16QAM	36	20	13.29	13.31	13.38	
15	16QAM	36	39	13.26	13.23	13.32	
15	16QAM	75	0	13.17	12.86	13.09	15
15	64QAM	1	0	14.01	14.00	13.93	
15	64QAM	1	37	13.96	13.86	13.89	
15	64QAM	1	74	13.87	13.71	13.79	
15	64QAM	36	0	13.38	13.42	13.36	14
15	64QAM	36	20	13.35	13.24	13.36	
15	64QAM	36	39	13.32	13.30	13.22	
15	64QAM	75	0	13.38	13.40	13.32	
Channel				132022	132322	132622	16
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.93	15.16	15.04	15
10	QPSK	1	25	14.86	14.98	14.92	
10	QPSK	1	49	14.89	14.85	14.83	
10	QPSK	25	0	13.96	14.07	14.01	
10	QPSK	25	12	13.85	13.89	13.90	15
10	QPSK	25	25	13.77	13.82	13.72	
10	QPSK	50	0	13.66	13.72	13.65	
10	16QAM	1	0	14.61	14.70	14.59	
10	16QAM	1	25	14.58	14.55	14.43	15
10	16QAM	1	49	14.50	14.48	14.31	
10	16QAM	25	0	13.29	13.45	13.37	
10	16QAM	25	12	13.27	13.28	13.35	
10	16QAM	25	25	13.22	13.19	13.29	14
10	16QAM	50	0	13.15	12.84	13.05	
10	64QAM	1	0	13.98	13.97	13.88	
10	64QAM	1	25	13.92	13.63	13.67	
10	64QAM	1	49	13.84	13.67	13.74	15
10	64QAM	25	0	13.33	13.38	13.32	
10	64QAM	25	12	13.32	13.20	13.31	
10	64QAM	25	25	13.30	13.25	13.19	
10	64QAM	50	0	13.35	13.37	13.27	14
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	16
5	QPSK	1	0	14.89	15.14	15.02	
5	QPSK	1	12	14.83	14.94	14.88	15
5	QPSK	1	24	14.85	14.81	14.78	
5	QPSK	12	0	13.92	14.05	13.98	
5	QPSK	12	7	13.82	13.84	13.87	
5	QPSK	12	13	13.75	13.80	13.69	15
5	QPSK	25	0	13.64	13.70	13.61	
5	16QAM	1	0	14.58	14.65	14.57	
5	16QAM	1	12	14.54	14.51	14.39	
5	16QAM	1	24	14.48	14.45	14.27	14
5	16QAM	12	0	13.26	13.42	13.34	
5	16QAM	12	7	13.22	13.25	13.33	
5	16QAM	12	13	13.19	13.16	13.25	
5	16QAM	25	0	13.11	12.80	13.01	15
5	64QAM	1	0	13.95	13.95	13.84	
5	64QAM	1	12	13.90	13.78	13.82	
5	64QAM	1	24	13.81	13.63	13.72	
5	64QAM	12	0	13.29	13.34	13.30	14
5	64QAM	12	7	13.29	13.17	13.27	
5	64QAM	12	13	13.27	13.21	13.17	
5	64QAM	25	0	13.31	13.34	13.22	
Channel				131987	132322	132657	16
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.89	15.12	15.02	15
3	QPSK	1	8	14.82	14.95	14.87	
3	QPSK	1	14	14.85	14.82	14.79	
3	QPSK	8	0	13.91	14.03	13.96	
3	QPSK	8	4	13.81	13.86	13.86	15
3	QPSK	6	7	13.72	13.79	13.69	

3	QPSK	15	0	13.61	13.68	13.60	15
3	16QAM	1	0	14.57	14.65	14.54	
3	16QAM	1	8	14.56	14.50	14.39	
3	16QAM	1	14	14.45	14.44	14.29	14
3	16QAM	8	0	13.25	13.40	13.33	
3	16QAM	8	4	13.24	13.23	13.31	
3	16QAM	8	7	13.20	13.14	13.25	15
3	16QAM	15	0	13.12	12.80	13.00	
3	64QAM	1	0	13.96	13.93	13.86	
3	64QAM	1	8	13.88	13.78	13.83	14
3	64QAM	1	14	13.80	13.63	13.71	
3	64QAM	8	0	13.31	13.33	13.29	
3	64QAM	8	4	13.29	13.15	13.29	14
3	64QAM	8	7	13.27	13.23	13.15	
3	64QAM	15	0	13.31	13.33	13.23	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.87	15.10	14.98	16
1.4	QPSK	1	3	14.78	14.91	14.84	
1.4	QPSK	1	5	14.82	14.78	14.75	
1.4	QPSK	3	0	13.87	14.00	13.93	
1.4	QPSK	3	1	13.77	13.81	13.82	
1.4	QPSK	3	3	13.69	13.74	13.65	15
1.4	QPSK	6	0	13.58	13.66	13.58	
1.4	16QAM	1	0	14.54	14.61	14.51	15
1.4	16QAM	1	3	14.53	14.45	14.37	
1.4	16QAM	1	5	14.41	14.39	14.24	
1.4	16QAM	3	0	13.22	13.36	13.28	
1.4	16QAM	3	1	13.21	13.19	13.28	
1.4	16QAM	3	3	13.17	13.12	13.23	14
1.4	16QAM	6	0	13.08	12.77	12.96	
1.4	64QAM	1	0	13.92	13.89	13.82	15
1.4	64QAM	1	3	13.84	13.73	13.79	
1.4	64QAM	1	5	13.76	13.58	13.67	
1.4	64QAM	3	0	13.29	13.30	13.26	
1.4	64QAM	3	1	13.25	13.12	13.25	
1.4	64QAM	3	3	13.22	13.18	13.10	14
1.4	64QAM	6	0	13.29	13.29	13.20	