



REPORT No.: SZ22030300S01

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		31.36	31.48	31.40	32.00	22.36	22.48	22.40	23.00	0.12
GPRS 1 Tx slot		31.36	31.47	31.41	32.00	22.36	22.47	22.41	23.00	
GPRS 2 Tx slots		29.52	29.56	29.48	30.00	23.52	23.56	23.48	24.00	0.08
GPRS 3 Tx slots		27.32	27.44	27.41	28.00	23.06	23.18	23.15	23.74	0.12
GPRS 4 Tx slots		26.18	26.24	26.21	27.00	23.18	23.24	23.21	24.00	0.06
EDGE 1 Tx slot		26.12	26.10	26.11	27.00	17.12	17.10	17.11	18.00	0.02
EDGE 2 Tx slots		25.47	25.55	25.49	26.00	19.47	19.55	19.49	20.00	0.08
EDGE 3 Tx slots		23.34	23.42	23.52	24.00	19.08	19.16	19.26	19.74	0.18
EDGE 4 Tx slots		20.61	20.59	20.64	21.00	17.61	17.59	17.64	18.00	0.05
Mode			Max.	31.48			Max.	23.56		
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		29.45	29.52	29.45	30.00	20.45	20.52	20.45	21.00	0.08
GPRS 1 Tx slot		29.46	29.53	29.47	30.00	20.46	20.53	20.47	21.00	
GPRS 2 Tx slots		26.45	26.36	26.33	27.00	20.45	20.36	20.33	21.00	0.12
GPRS 3 Tx slots		24.50	24.55	24.43	25.00	20.24	20.29	20.17	20.74	0.12
GPRS 4 Tx slots		23.16	23.17	23.12	24.00	20.16	20.17	20.12	21.00	0.05
EDGE 1 Tx slot		25.66	25.47	25.61	26.00	16.66	16.47	16.61	17.00	0.19
EDGE 2 Tx slots		24.62	24.52	24.56	25.00	18.62	18.52	18.56	19.00	0.10
EDGE 3 Tx slots		23.26	23.20	23.18	24.00	19.00	18.94	18.92	19.74	0.08
EDGE 4 Tx slots		22.55	22.46	22.41	23.00	19.55	19.46	19.41	20.00	0.14
Mode			Max.	29.53			Max.	20.53		
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	22.39	22.47	22.41	23.00	23.11	23.18	23.14	24.00	22.56	22.61	22.51	23.00
3GPP Rel 6	HSDPA Subtest-1	19.44	19.61	19.47	20.50	19.76	19.91	19.99	20.50	20.26	20.25	20.34	21.50
3GPP Rel 6	HSDPA Subtest-2	18.48	18.62	18.53	19.50	18.79	18.94	19.02	20.50	19.31	19.25	19.41	20.50
3GPP Rel 6	HSDPA Subtest-3	17.67	17.85	17.71	18.50	17.96	18.13	18.20	19.50	18.50	18.46	18.57	20.50
3GPP Rel 6	HSDPA Subtest-4	17.58	17.73	17.63	18.80	17.87	18.03	18.09	19.50	18.36	18.35	18.47	20.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.46	19.61	19.60	20.50	19.90	20.00	20.13	20.50	20.34	20.34	20.39	21.50
3GPP Rel 8	DC-HSDPA Subtest-2	18.30	18.45	18.41	19.50	18.70	18.88	18.92	19.50	19.18	19.16	19.24	20.50
3GPP Rel 8	DC-HSDPA Subtest-3	17.43	17.52	17.60	18.50	17.79	18.00	18.00	19.50	18.31	18.27	18.30	20.50
3GPP Rel 8	DC-HSDPA Subtest-4	17.52	17.67	17.62	18.50	17.91	18.09	18.14	19.50	18.38	18.36	18.38	20.50
3GPP Rel 6	HSUPA Subtest-1	18.50	18.57	18.50	19.50	18.75	18.96	19.07	19.50	19.31	19.30	19.39	20.50
3GPP Rel 6	HSUPA Subtest-2	18.48	18.56	18.48	19.50	18.75	18.94	19.05	19.50	19.28	19.26	19.35	20.50
3GPP Rel 6	HSUPA Subtest-3	18.20	18.31	18.20	19.50	18.45	18.66	18.63	19.50	19.00	19.00	19.06	20.50
3GPP Rel 6	HSUPA Subtest-4	19.44	19.56	19.43	20.50	19.73	19.91	19.95	20.50	20.23	20.27	20.32	21.50
3GPP Rel 6	HSUPA Subtest-5	18.45	18.51	18.38	19.50	18.66	18.86	18.86	19.50	19.20	19.18	19.29	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.71	17.72	17.67	18.50	18.13	18.27	18.23	19.50	18.51	18.47	18.51	19.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	22.47			Max.	23.18			Max.	22.61	

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	23.5
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.61	22.64	22.58	23.5
20	QPSK	1	49	22.59	22.53	22.46	
20	QPSK	1	99	22.53	22.49	22.47	
20	QPSK	50	0	21.44	21.53	21.46	
20	QPSK	50	24	21.45	21.50	21.50	22.5
20	QPSK	50	50	21.50	21.46	21.52	
20	QPSK	100	0	21.43	21.52	21.48	
20	16QAM	1	0	21.49	21.49	21.51	
20	16QAM	1	49	21.33	21.63	21.59	22.5
20	16QAM	1	99	21.46	21.31	21.71	
20	16QAM	50	0	21.39	21.36	21.34	
20	16QAM	50	24	21.35	21.40	21.41	
20	16QAM	50	50	21.43	21.40	21.47	22.5
20	16QAM	100	0	21.46	21.47	21.34	
20	64QAM	1	0	21.41	21.60	21.34	
20	64QAM	1	49	21.36	21.54	21.45	
20	64QAM	1	99	21.31	21.64	21.64	22.5
20	64QAM	50	0	21.41	21.33	21.38	
20	64QAM	50	24	21.44	21.38	21.43	
20	64QAM	50	50	21.43	21.44	21.38	
20	64QAM	100	0	21.31	21.28	21.29	23.5
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	23.5
15	QPSK	1	0	22.42	22.45	22.36	
15	QPSK	1	37	22.21	22.57	22.45	22.5
15	QPSK	1	74	22.58	22.50	22.58	
15	QPSK	36	0	21.18	21.27	21.26	
15	QPSK	36	20	21.17	21.36	21.33	
15	QPSK	36	39	21.29	21.30	21.27	22.5
15	QPSK	75	0	21.21	21.27	21.23	
15	16QAM	1	0	21.30	21.38	21.32	
15	16QAM	1	37	21.43	21.46	21.32	
15	16QAM	1	74	21.38	21.50	21.50	22.5
15	16QAM	36	0	21.17	21.22	21.25	
15	16QAM	36	20	21.26	21.19	21.32	
15	16QAM	36	39	21.31	21.40	21.37	
15	16QAM	75	0	21.18	21.20	21.29	22.5
15	64QAM	1	0	21.38	21.14	21.20	
15	64QAM	1	37	21.37	21.18	21.60	
15	64QAM	1	74	21.26	21.30	21.45	
15	64QAM	36	0	21.11	21.28	21.16	22.5
15	64QAM	36	20	21.31	21.33	21.23	
15	64QAM	36	39	21.19	21.24	21.33	
15	64QAM	75	0	21.18	21.25	21.24	
Channel				18650	18900	19150	23.5
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.39	22.38	22.48	23.5
10	QPSK	1	25	22.50	22.60	22.48	
10	QPSK	1	49	22.39	22.47	22.39	
10	QPSK	25	0	21.29	21.30	21.26	
10	QPSK	25	12	21.25	21.37	21.30	22.5
10	QPSK	25	25	21.16	21.29	21.25	
10	QPSK	50	0	21.22	21.31	21.29	
10	16QAM	1	0	21.70	21.63	21.62	
10	16QAM	1	25	21.39	21.35	21.42	22.5
10	16QAM	1	49	21.34	21.42	21.21	
10	16QAM	25	0	21.24	21.23	21.20	
10	16QAM	25	12	21.40	21.20	21.20	
10	16QAM	25	25	21.20	21.40	21.50	22.5
10	16QAM	50	0	21.77	21.70	21.74	
10	64QAM	1	0	21.28	21.33	21.33	
10	64QAM	1	25	21.31	21.36	21.40	
10	64QAM	1	49	20.98	21.11	21.08	22.5
10	64QAM	25	0	21.28	21.32	21.33	
10	64QAM	25	12	21.31	21.29	21.30	
10	64QAM	25	25	21.24	21.02	21.24	
10	64QAM	50	0	21.25	21.25	21.22	23.5
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	23.5
5	QPSK	1	0	22.53	22.58	22.52	
5	QPSK	1	12	22.52	22.47	22.50	22.5
5	QPSK	1	24	22.48	22.56	22.57	
5	QPSK	12	0	21.28	21.19	21.26	
5	QPSK	12	7	21.29	21.34	21.26	22.5
5	QPSK	12	13	21.28	21.27	21.30	
5	QPSK	25	0	21.27	21.25	21.27	
5	16QAM	1	0	21.40	21.30	21.68	
5	16QAM	1	12	21.38	21.31	21.68	22.5
5	16QAM	1	24	21.41	21.28	21.67	
5	16QAM	12	0	21.50	21.64	21.50	
5	16QAM	12	7	21.40	21.40	21.20	
5	16QAM	12	13	21.20	21.53	21.30	22.5
5	16QAM	25	0	21.30	21.76	21.74	
5	64QAM	1	0	21.50	21.22	21.27	
5	64QAM	1	12	21.66	21.32	21.43	
5	64QAM	1	24	21.67	21.31	21.33	22.5
5	64QAM	12	0	21.32	21.25	21.24	
5	64QAM	12	7	21.38	21.22	21.22	
5	64QAM	12	13	21.35	21.31	21.29	
5	64QAM	25	0	21.42	21.22	21.29	23.5
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	23.5
3	QPSK	1	0	22.47	22.54	22.46	
3	QPSK	1	8	22.57	22.60	22.43	22.5
3	QPSK	1	14	22.58	22.45	22.45	
3	QPSK	8	0	21.16	21.11	21.13	
3	QPSK	8	4	21.22	21.16	21.17	22.5
3	QPSK	8	7	21.22	21.16	21.12	
3	QPSK	15	0	21.14	21.22	21.15	

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	23.42	23.50	23.49	24.5
20	QPSK	1	49	23.28	23.36	23.35	
20	QPSK	1	99	23.20	23.33	23.45	
20	QPSK	50	0	22.49	22.62	22.59	
20	QPSK	50	24	22.49	22.57	22.57	23.5
20	QPSK	50	50	22.38	22.49	22.50	
20	QPSK	100	0	22.48	22.52	22.59	
20	16QAM	1	0	22.35	22.65	22.52	
20	16QAM	1	49	22.50	22.27	22.41	23.5
20	16QAM	1	99	22.29	22.51	22.35	
20	16QAM	50	0	22.48	22.41	22.55	
20	16QAM	50	24	22.74	22.85	22.74	
20	16QAM	50	50	22.70	22.71	22.71	23.5
20	16QAM	100	0	22.72	22.80	22.81	
20	64QAM	1	0	22.46	22.57	22.79	
20	64QAM	1	49	22.50	22.43	22.31	
20	64QAM	1	99	22.77	22.34	22.81	23.5
20	64QAM	50	0	22.47	22.56	22.51	
20	64QAM	50	24	22.49	22.60	22.54	
20	64QAM	50	50	22.53	22.48	22.50	
20	64QAM	100	0	22.56	22.54	22.63	23.5
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	23.29	23.33	23.43	24.5
15	QPSK	1	37	23.33	23.42	23.34	
15	QPSK	1	74	23.20	23.42	23.45	
15	QPSK	36	0	22.43	22.50	22.53	
15	QPSK	36	20	22.47	22.60	22.56	23.5
15	QPSK	36	39	22.52	22.51	22.60	
15	QPSK	75	0	22.47	22.49	22.50	
15	16QAM	1	0	22.41	22.63	22.35	
15	16QAM	1	37	22.49	22.49	22.33	23.5
15	16QAM	1	74	22.35	22.65	22.44	
15	16QAM	36	0	22.36	22.38	22.57	
15	16QAM	36	20	22.31	22.38	22.44	
15	16QAM	36	39	22.27	22.36	22.42	23.5
15	16QAM	75	0	22.38	22.39	22.48	
15	64QAM	1	0	22.33	22.64	22.69	
15	64QAM	1	37	22.75	22.51	22.57	
15	64QAM	1	74	22.79	22.50	22.54	23.5
15	64QAM	36	0	22.44	22.51	22.55	
15	64QAM	36	20	22.50	22.52	22.54	
15	64QAM	36	39	22.53	22.49	22.51	
15	64QAM	75	0	22.46	22.57	22.50	23.5
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	23.21	23.40	23.23	24.5
10	QPSK	1	25	23.19	23.32	23.33	
10	QPSK	1	49	23.27	23.10	23.33	
10	QPSK	25	0	22.26	22.48	22.50	
10	QPSK	25	12	22.38	22.44	22.48	23.5
10	QPSK	25	25	22.27	22.38	22.45	
10	QPSK	50	0	22.33	22.43	22.35	
10	16QAM	1	0	22.32	22.47	22.23	
10	16QAM	1	25	22.59	22.33	22.65	23.5
10	16QAM	1	49	22.66	22.56	22.55	
10	16QAM	25	0	22.32	22.31	22.30	
10	16QAM	25	12	22.24	22.34	22.31	
10	16QAM	25	25	22.58	22.49	22.58	23.5
10	16QAM	50	0	22.52	22.56	22.68	
10	64QAM	1	0	22.38	22.46	22.36	
10	64QAM	1	25	22.45	22.74	22.83	
10	64QAM	1	49	22.43	22.47	22.42	23.5
10	64QAM	25	0	22.27	22.41	22.40	
10	64QAM	25	12	22.36	22.47	22.51	
10	64QAM	25	25	22.24	22.36	22.38	
10	64QAM	50	0	22.30	22.37	22.36	23.5
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	23.11	23.33	23.38	24.5
5	QPSK	1	12	23.17	23.32	23.29	
5	QPSK	1	24	23.12	23.24	23.23	
5	QPSK	12	0	22.34	22.34	22.38	
5	QPSK	12	7	22.34	22.45	22.42	23.5
5	QPSK	12	13	22.29	22.46	22.38	
5	QPSK	25	0	22.32	22.36	22.42	
5	16QAM	1	0	22.22	22.63	22.31	
5	16QAM	1	12	22.33	22.68	22.27	23.5
5	16QAM	1	24	22.27	22.62	22.22	
5	16QAM	12	0	22.26	22.20	22.23	
5	16QAM	12	7	22.29	22.33	22.31	
5	16QAM	12	13	22.56	22.63	22.67	23.5
5	16QAM	25	0	22.57	22.68	22.61	
5	64QAM	1	0	22.34	22.78	22.76	
5	64QAM	1	12	22.72	22.48	22.75	
5	64QAM	1	24	22.68	22.38	22.45	23.5
5	64QAM	12	0	22.35	22.42	22.44	
5	64QAM	12	7	22.34	22.43	22.49	
5	64QAM	12	13	22.35	22.41	22.40	
5	64QAM	25	0	22.30	22.44	22.35	23.5
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)
3	QPSK	1	0	23.23	23.24	23.36	24.5
3	QPSK	1	8	23.32	23.46	23.40	
3	QPSK	8	0	22.32	22.38	22.39	
3	QPSK	8	4	22.36	22.46	22.48	
3	QPSK	8	7	22.34	22.44	22.44	23.5
3	QPSK	15	0	22.34	22.40	22.34	

3	16QAM	1	0	21.30	21.21	21.15	22.5
3	16QAM	1	8	21.34	21.28	21.24	
3	16QAM	1	14	21.27	21.24	21.12	
3	16QAM	8	0	21.50	21.63	21.55	22.5
3	16QAM	8	4	21.57	21.54	21.60	
3	16QAM	8	7	21.47	21.52	21.55	
3	16QAM	15	0	21.50	21.54	21.49	22.5
3	64QAM	1	0	21.23	21.16	21.19	
3	64QAM	1	8	21.65	21.64	21.24	
3	64QAM	1	14	21.26	21.62	21.26	22.5
3	64QAM	8	0	21.18	21.20	21.04	
3	64QAM	8	4	21.28	21.18	21.18	
3	64QAM	8	7	21.38	21.27	21.13	22.5
3	64QAM	15	0	21.23	21.23	21.21	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.53	22.56	22.51	23.5
1.4	QPSK	1	3	22.43	22.41	22.40	
1.4	QPSK	1	5	22.40	22.38	22.36	
1.4	QPSK	3	0	22.40	22.40	22.36	
1.4	QPSK	3	1	22.44	22.41	22.39	
1.4	QPSK	3	3	22.46	22.50	22.39	
1.4	QPSK	6	0	21.32	21.30	21.29	22.5
1.4	16QAM	1	0	21.35	21.35	21.29	22.5
1.4	16QAM	1	3	21.31	21.51	21.49	
1.4	16QAM	1	5	21.19	21.39	21.07	
1.4	16QAM	3	0	21.21	21.26	21.23	
1.4	16QAM	3	1	21.39	21.21	21.26	
1.4	16QAM	3	3	21.41	21.38	21.12	
1.4	16QAM	6	0	21.42	21.35	21.30	22.5
1.4	64QAM	1	0	21.30	21.22	21.25	22.5
1.4	64QAM	1	3	21.32	21.53	21.41	
1.4	64QAM	1	5	21.30	21.65	21.24	
1.4	64QAM	3	0	21.33	21.39	21.40	
1.4	64QAM	3	1	21.42	21.39	21.60	
1.4	64QAM	3	3	21.34	21.48	21.25	
1.4	64QAM	6	0	21.39	21.42	21.31	22.5

3	16QAM	1	0	22.42	22.51	22.55	23.5
3	16QAM	1	8	22.64	22.64	22.38	
3	16QAM	1	14	22.55	22.33	22.41	
3	16QAM	8	0	22.34	22.35	22.44	23.5
3	16QAM	8	4	22.44	22.44	22.45	
3	16QAM	8	7	22.66	22.74	22.78	
3	16QAM	15	0	22.66	22.64	22.71	23.5
3	64QAM	1	0	22.33	22.42	22.40	
3	64QAM	1	8	22.52	22.40	22.56	
3	64QAM	1	14	22.33	22.40	22.23	23.5
3	64QAM	8	0	22.31	22.35	22.29	
3	64QAM	8	4	22.43	22.41	22.45	
3	64QAM	8	7	22.37	22.44	22.56	23.5
3	64QAM	15	0	22.33	22.41	22.32	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.98	23.19	23.20	24.5
1.4	QPSK	1	3	23.32	23.32	23.36	
1.4	QPSK	1	5	23.18	23.27	23.29	
1.4	QPSK	3	0	23.26	23.23	23.22	
1.4	QPSK	3	1	23.22	23.32	23.37	
1.4	QPSK	3	3	23.21	23.28	23.27	
1.4	QPSK	6	0	22.37	22.39	22.35	23.5
1.4	16QAM	1	0	22.31	22.78	22.44	23.5
1.4	16QAM	1	3	22.44	22.52	22.56	
1.4	16QAM	1	5	22.50	22.66	22.46	
1.4	16QAM	3	0	22.53	22.57	22.48	
1.4	16QAM	3	1	22.54	22.57	22.59	
1.4	16QAM	3	3	22.53	22.65	22.54	
1.4	16QAM	6	0	22.44	22.45	22.36	23.5
1.4	64QAM	1	0	22.22	22.16	22.30	23.5
1.4	64QAM	1	3	22.48	22.46	22.58	
1.4	64QAM	1	5	22.39	22.35	22.19	
1.4	64QAM	3	0	22.30	22.28	22.47	
1.4	64QAM	3	1	22.21	22.36	22.33	
1.4	64QAM	3	3	22.27	22.44	22.32	
1.4	64QAM	6	0	22.26	22.27	22.34	23.5

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	24
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.16	23.17	23.09	24
10	QPSK	1	25	23.02	23.05	22.85	
10	QPSK	1	49	22.94	23.06	22.74	
10	QPSK	25	0	22.47	22.49	22.30	23
10	QPSK	25	12	22.23	22.25	22.30	
10	QPSK	25	25	22.23	22.34	22.39	
10	QPSK	50	0	22.29	22.17	22.31	23
10	16QAM	1	0	22.33	22.52	22.23	
10	16QAM	1	25	22.56	22.59	22.27	
10	16QAM	1	49	22.39	22.45	22.52	23
10	16QAM	25	0	22.48	22.49	22.31	
10	16QAM	25	12	22.42	22.50	22.28	
10	16QAM	25	25	22.45	22.38	22.41	23
10	16QAM	50	0	22.46	22.37	22.27	
10	64QAM	1	0	22.42	22.52	22.40	
10	64QAM	1	25	22.39	22.59	22.39	23
10	64QAM	1	49	22.28	22.50	22.41	
10	64QAM	25	0	22.39	22.50	22.17	
10	64QAM	25	12	22.38	22.55	22.26	23
10	64QAM	25	25	22.50	22.39	22.09	
10	64QAM	50	0	22.46	22.42	22.28	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	24
5	QPSK	1	0	23.11	23.07	23.05	
5	QPSK	1	12	23.01	23.12	22.96	23
5	QPSK	1	24	23.01	22.96	22.96	
5	QPSK	12	0	22.38	22.43	22.29	
5	QPSK	12	7	22.45	22.46	22.38	23
5	QPSK	12	13	22.50	22.34	22.29	
5	QPSK	25	0	22.41	22.37	22.29	
5	16QAM	1	0	22.70	22.63	22.39	23
5	16QAM	1	12	22.40	22.62	22.38	
5	16QAM	1	24	22.27	22.62	22.45	
5	16QAM	12	0	22.36	22.45	22.44	23
5	16QAM	12	7	22.43	22.46	22.28	
5	16QAM	12	13	22.43	22.34	22.39	
5	16QAM	25	0	22.44	22.49	22.44	23
5	64QAM	1	0	22.51	22.39	22.50	
5	64QAM	1	12	22.39	22.33	22.47	
5	64QAM	1	24	22.53	22.37	22.31	23
5	64QAM	12	0	22.25	22.39	22.19	
5	64QAM	12	7	22.29	22.45	22.23	
5	64QAM	12	13	22.47	22.42	21.99	23
5	64QAM	25	0	22.35	22.42	22.03	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	24
3	QPSK	1	0	22.80	23.11	22.96	
3	QPSK	1	8	23.06	23.07	22.98	23
3	QPSK	1	14	23.07	23.05	22.79	
3	QPSK	8	0	22.31	22.44	22.42	
3	QPSK	8	4	22.45	22.51	22.48	23
3	QPSK	8	7	22.40	22.42	22.29	
3	QPSK	15	0	22.38	22.44	22.43	
3	16QAM	1	0	22.40	22.51	22.58	23
3	16QAM	1	8	22.33	22.59	22.43	
3	16QAM	1	14	22.38	22.64	22.39	
3	16QAM	8	0	22.34	22.43	22.17	23
3	16QAM	8	4	22.50	22.61	22.18	
3	16QAM	8	7	22.42	22.48	22.22	
3	16QAM	15	0	22.36	22.38	21.93	23
3	64QAM	1	0	22.31	22.19	22.40	
3	64QAM	1	8	22.19	22.43	22.19	
3	64QAM	1	14	22.21	22.39	22.20	23
3	64QAM	8	0	22.31	22.41	22.39	
3	64QAM	8	4	22.53	22.37	22.31	
3	64QAM	8	7	22.48	22.40	22.37	23
3	64QAM	15	0	22.37	22.47	22.27	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	24
1.4	QPSK	1	0	23.01	23.08	23.12	
1.4	QPSK	1	3	23.14	23.07	23.14	23
1.4	QPSK	1	5	23.03	22.97	22.98	
1.4	QPSK	3	0	23.04	23.10	23.06	
1.4	QPSK	3	1	23.10	22.97	23.07	23
1.4	QPSK	3	3	23.11	23.03	23.03	
1.4	QPSK	6	0	22.36	22.35	22.34	
1.4	16QAM	1	0	22.49	22.30	22.47	23
1.4	16QAM	1	3	22.29	22.53	22.42	
1.4	16QAM	1	5	22.68	22.36	22.42	
1.4	16QAM	3	0	22.21	22.19	22.33	23
1.4	16QAM	3	1	22.24	22.51	22.37	
1.4	16QAM	3	3	22.32	22.43	22.31	
1.4	16QAM	6	0	22.51	22.38	22.42	23
1.4	64QAM	1	0	22.04	22.21	22.23	
1.4	64QAM	1	3	22.35	22.36	22.31	
1.4	64QAM	1	5	22.30	22.29	22.17	23
1.4	64QAM	3	0	21.96	22.23	22.24	
1.4	64QAM	3	1	22.24	22.18	22.19	
1.4	64QAM	3	3	22.14	22.31	22.35	23
1.4	64QAM	6	0	22.35	22.47	22.36	

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	
10	QPSK	1	0	23.29	23.45	23.34	24
10	QPSK	1	25	23.15	23.28	23.31	
10	QPSK	1	49	23.25	23.26	23.25	
10	QPSK	25	0	22.54	22.64	22.55	
10	QPSK	25	12	22.51	22.45	22.24	
10	QPSK	25	25	22.56	22.62	22.55	
10	QPSK	50	0	22.57	22.59	22.50	23
10	16QAM	1	0	22.50	22.05	22.18	
10	16QAM	1	25	22.25	22.20	22.34	
10	16QAM	1	49	22.34	22.39	22.28	
10	16QAM	25	0	22.23	22.25	22.19	
10	16QAM	25	12	22.27	22.31	22.20	
10	16QAM	25	25	22.32	22.33	22.27	23
10	16QAM	50	0	22.22	22.30	22.35	
10	64QAM	1	0	22.07	22.19	22.53	
10	64QAM	1	25	22.51	22.57	22.16	23
10	64QAM	1	49	22.53	22.21	22.14	
10	64QAM	25	0	22.04	21.98	21.95	
10	64QAM	25	12	22.09	22.12	22.04	23
10	64QAM	25	25	22.14	22.11	22.11	
10	64QAM	50	0	22.06	21.99	22.10	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.04	23.37	23.15	24
5	QPSK	1	12	23.20	23.36	23.20	
5	QPSK	1	24	23.16	23.35	23.21	
5	QPSK	12	0	22.27	22.34	22.33	23
5	QPSK	12	7	22.38	22.40	22.37	
5	QPSK	12	13	22.33	22.36	22.33	
5	QPSK	25	0	22.29	22.41	22.37	23
5	16QAM	1	0	22.30	22.32	22.34	
5	16QAM	1	12	22.47	22.42	22.43	
5	16QAM	1	24	22.43	22.41	22.37	
5	16QAM	12	0	22.17	22.14	22.17	
5	16QAM	12	7	22.31	22.36	22.20	
5	16QAM	12	13	22.26	22.23	22.28	23
5	16QAM	25	0	22.27	22.23	22.25	
5	64QAM	1	0	22.05	22.06	22.11	
5	64QAM	1	12	22.50	22.20	22.13	23
5	64QAM	1	24	22.48	22.17	22.22	
5	64QAM	12	0	22.02	22.04	21.99	
5	64QAM	12	7	22.12	22.00	22.06	23
5	64QAM	12	13	21.99	22.09	22.14	
5	64QAM	25	0	22.14	22.10	22.07	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.12	23.39	23.06	24
3	QPSK	1	8	23.30	23.29	23.19	
3	QPSK	1	14	23.24	23.35	23.30	
3	QPSK	8	0	22.35	22.33	22.33	23
3	QPSK	8	4	22.38	22.41	22.42	
3	QPSK	8	7	22.33	22.41	22.35	
3	QPSK	15	0	22.32	22.40	22.26	23
3	16QAM	1	0	22.33	22.69	22.28	
3	16QAM	1	8	22.53	22.51	22.46	
3	16QAM	1	14	22.36	22.41	22.27	23
3	16QAM	8	0	22.33	22.22	22.25	
3	16QAM	8	4	22.38	22.35	22.46	
3	16QAM	8	7	22.22	22.25	22.31	23
3	16QAM	15	0	22.20	22.13	22.12	
3	64QAM	1	0	22.06	22.40	22.39	
3	64QAM	1	8	22.35	22.25	22.26	23
3	64QAM	1	14	22.28	22.13	22.24	
3	64QAM	8	0	21.95	22.03	21.94	
3	64QAM	8	4	22.04	22.08	22.07	23
3	64QAM	8	7	22.03	21.95	22.10	
3	64QAM	15	0	22.02	22.04	21.96	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.15	23.32	23.12	24
1.4	QPSK	1	3	23.26	23.25	23.27	
1.4	QPSK	1	5	23.15	23.20	23.16	
1.4	QPSK	3	0	23.10	23.23	23.21	23
1.4	QPSK	3	1	23.31	23.31	22.98	
1.4	QPSK	3	3	23.26	23.28	23.24	
1.4	QPSK	6	0	22.32	22.29	22.27	23
1.4	16QAM	1	0	22.36	22.30	22.15	
1.4	16QAM	1	3	22.17	22.60	22.27	
1.4	16QAM	1	5	22.29	22.30	22.29	23
1.4	16QAM	3	0	22.13	22.16	22.17	
1.4	16QAM	3	1	22.29	22.37	22.21	
1.4	16QAM	3	3	22.12	22.26	22.26	23
1.4	16QAM	6	0	22.05	22.25	22.15	
1.4	64QAM	1	0	21.90	22.05	21.89	
1.4	64QAM	1	3	22.02	21.95	22.00	23
1.4	64QAM	1	5	22.18	22.21	22.17	
1.4	64QAM	3	0	22.08	22.09	21.92	
1.4	64QAM	3	1	22.06	22.30	22.15	23
1.4	64QAM	3	3	22.08	21.92	22.08	
1.4	64QAM	6	0	22.04	22.05	21.92	

Band 25 (1900MHz Band) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	23.5
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	22.65	22.68	22.65	
20	QPSK	1	49	22.53	22.49	22.55	
20	QPSK	1	99	22.46	22.49	22.44	22.5
20	QPSK	50	0	21.76	21.82	21.74	
20	QPSK	50	24	21.61	21.55	21.69	
20	QPSK	50	50	21.59	21.59	21.68	
20	QPSK	100	0	21.72	21.59	21.80	22.5
20	16QAM	1	0	21.45	21.64	21.78	
20	16QAM	1	49	21.66	21.95	21.79	
20	16QAM	1	99	21.62	21.87	21.92	
20	16QAM	50	0	21.56	21.80	21.79	22.5
20	16QAM	50	24	21.62	21.77	21.75	
20	16QAM	50	50	21.45	21.71	21.76	
20	16QAM	100	0	21.49	21.78	21.75	
20	64QAM	1	0	21.46	21.79	21.47	22.5
20	64QAM	1	49	21.69	21.59	21.49	
20	64QAM	1	99	21.43	21.46	21.46	
20	64QAM	50	0	21.61	21.78	21.76	
20	64QAM	50	24	21.53	21.61	21.78	22.5
20	64QAM	50	50	21.47	21.68	21.84	
20	64QAM	100	0	21.54	21.77	21.78	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	23.5
15	QPSK	1	0	22.59	22.55	22.51	
15	QPSK	1	37	22.58	22.54	22.53	
15	QPSK	1	74	22.50	22.56	22.55	
15	QPSK	36	0	21.66	21.84	22.00	22.5
15	QPSK	36	20	21.78	21.87	21.95	
15	QPSK	36	39	21.61	21.89	21.95	
15	QPSK	75	0	21.64	21.81	21.94	
15	16QAM	1	0	22.12	22.17	21.89	22.5
15	16QAM	1	37	22.29	21.85	22.22	
15	16QAM	1	74	22.13	22.18	22.34	
15	16QAM	36	0	21.57	21.60	21.81	
15	16QAM	36	20	21.57	21.64	21.76	22.5
15	16QAM	36	39	21.48	21.73	21.76	
15	16QAM	75	0	21.58	21.70	21.74	
15	64QAM	1	0	21.38	21.39	21.39	
15	64QAM	1	37	21.42	21.39	21.47	22.5
15	64QAM	1	74	21.47	21.47	21.39	
15	64QAM	36	0	21.53	21.58	21.82	
15	64QAM	36	20	21.66	21.74	21.68	
15	64QAM	36	39	21.51	21.69	21.71	22.5
15	64QAM	75	0	21.48	21.67	21.83	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	23.5
10	QPSK	1	0	22.59	22.60	22.51	
10	QPSK	1	25	22.54	22.48	22.47	
10	QPSK	1	49	22.57	22.55	22.47	
10	QPSK	25	0	21.91	21.83	21.77	22.5
10	QPSK	25	12	21.74	21.89	21.77	
10	QPSK	25	25	21.76	21.88	21.55	
10	QPSK	50	0	21.92	21.88	21.99	
10	16QAM	1	0	21.87	21.77	22.02	22.5
10	16QAM	1	25	21.81	21.59	22.05	
10	16QAM	1	49	21.79	22.02	22.02	
10	16QAM	25	0	21.79	21.58	21.98	
10	16QAM	25	12	21.56	21.67	21.78	22.5
10	16QAM	25	25	21.66	21.62	21.68	
10	16QAM	50	0	21.57	21.74	21.48	
10	64QAM	1	0	21.46	21.69	21.56	
10	64QAM	1	25	21.39	21.49	21.67	22.5
10	64QAM	1	49	21.46	21.51	21.74	
10	64QAM	25	0	21.52	21.63	21.84	
10	64QAM	25	12	21.53	21.74	21.85	
10	64QAM	25	25	21.51	21.75	21.89	22.5
10	64QAM	50	0	21.54	21.64	21.77	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	23.5
5	QPSK	1	0	22.53	22.58	22.55	
5	QPSK	1	12	22.51	22.51	22.50	
5	QPSK	1	24	22.57	22.55	22.53	
5	QPSK	12	0	21.96	21.70	21.96	22.5
5	QPSK	12	7	22.09	21.95	22.06	
5	QPSK	12	13	21.66	22.05	21.98	
5	QPSK	25	0	22.03	21.82	21.99	
5	16QAM	1	0	22.03	21.73	21.92	22.5
5	16QAM	1	12	21.75	21.59	22.03	
5	16QAM	1	24	21.66	21.68	22.02	
5	16QAM	12	0	21.53	21.51	21.87	
5	16QAM	12	7	21.56	21.68	21.64	22.5
5	16QAM	12	13	21.53	21.64	21.79	
5	16QAM	25	0	21.44	21.61	21.71	
5	64QAM	1	0	21.41	21.65	21.68	
5	64QAM	1	12	21.46	21.49	21.48	22.5
5	64QAM	1	24	21.49	21.39	21.47	
5	64QAM	12	0	21.48	21.60	21.75	
5	64QAM	12	7	21.49	21.77	21.84	
5	64QAM	12	13	21.42	21.67	21.76	22.5
5	64QAM	25	0	21.48	21.65	21.80	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	23.5
3	QPSK	1	0	22.52	22.54	22.56	
3	QPSK	1	8	22.55	22.50	22.54	
3	QPSK	1	14	22.43	22.51	22.44	
3	QPSK	8	0	21.61	21.74	21.80	22.5
3	QPSK	8	4	21.76	21.73	21.91	
3	QPSK	8	7	21.60	21.74	21.83	
3	QPSK	15	0	21.67	21.73	21.87	

Band 26 for FCC (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dbm)
Channel				26765	26865	26965	23.5
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.60	22.64	22.61	
15	QPSK	1	37	22.58	22.55	22.61	
15	QPSK	1	74	22.56	22.54	22.56	22.5
15	QPSK	36	0	21.92	22.00	21.88	
15	QPSK	36	20	21.81	21.75	21.60	
15	QPSK	36	39	21.83	21.62	21.68	
15	QPSK	75	0	21.89	21.92	21.70	22.5
15	16QAM	1	0	21.61	21.76	22.04	
15	16QAM	1	37	21.57	21.68	21.82	
15	16QAM	1	74	21.72	21.61	21.62	
15	16QAM	36	0	21.72	21.58	21.61	22.5
15	16QAM	36	20	21.67	21.47	21.62	
15	16QAM	36	39	21.74	21.54	21.62	
15	16QAM	75	0	21.62	21.64	21.64	
15	64QAM	1	0	21.35	21.22	21.04	22.5
15	64QAM	1	37	21.00	21.04	21.14	
15	64QAM	1	74	21.04	21.00	21.32	
15	64QAM	36	0	21.40	21.21	21.20	
15	64QAM	36	20	21.49	21.21	21.12	22.5
15	64QAM	36	39	21.47	21.27	21.03	
15	64QAM	75	0	21.41	21.24	21.17	
Channel				26740	26865	26990	Tune-up limit (dbm)
Frequency (MHz)				819	831.5	844	21.64
10	QPSK	1	0	22.52	22.56	22.53	
10	QPSK	1	25	22.55	22.54	22.47	
10	QPSK	1	49	22.41	22.54	22.46	
10	QPSK	25	0	21.94	21.75	21.61	20.64
10	QPSK	25	12	21.90	21.72	21.51	
10	QPSK	25	25	21.89	21.73	21.58	
10	QPSK	50	0	21.90	21.78	21.60	
10	16QAM	1	0	21.62	21.94	21.71	20.64
10	16QAM	1	25	21.71	21.80	21.85	
10	16QAM	1	49	21.65	21.64	21.62	
10	16QAM	25	0	21.66	21.80	22.09	
10	16QAM	25	12	21.67	21.83	21.91	22.5
10	16QAM	25	25	21.84	21.72	21.78	
10	16QAM	50	0	22.01	21.88	21.90	
10	64QAM	1	0	21.30	21.30	21.12	
10	64QAM	1	25	21.40	21.12	21.14	22.5
10	64QAM	1	49	21.12	21.11	21.11	
10	64QAM	25	0	21.47	21.24	21.19	
10	64QAM	25	12	21.23	21.25	21.18	
10	64QAM	25	25	21.13	21.26	21.01	22.5
10	64QAM	50	0	21.43	21.22	21.15	
Channel				26715	26865	27015	Tune-up limit (dbm)
Frequency (MHz)				816.5	831.5	846.5	21.9
5	QPSK	1	0	22.51	22.56	22.52	
5	QPSK	1	12	22.46	22.50	22.52	
5	QPSK	1	24	22.42	22.54	22.54	
5	QPSK	12	0	21.88	21.70	21.59	20.9
5	QPSK	12	7	21.98	21.69	21.69	
5	QPSK	12	13	21.87	21.64	21.58	
5	QPSK	25	0	21.91	21.72	21.77	
5	16QAM	1	0	21.62	21.62	21.63	22.5
5	16QAM	1	12	21.66	21.56	21.53	
5	16QAM	1	24	21.71	21.71	21.76	
5	16QAM	12	0	21.99	21.81	21.79	
5	16QAM	12	7	21.84	21.86	21.55	22.5
5	16QAM	12	13	21.96	21.81	21.60	
5	16QAM	25	0	21.51	21.65	21.62	
5	64QAM	1	0	21.31	21.13	21.11	
5	64QAM	1	12	21.20	21.31	21.12	22.5
5	64QAM	1	24	21.14	21.11	21.11	
5	64QAM	12	0	21.41	21.19	21.02	
5	64QAM	12	7	21.00	21.32	21.03	
5	64QAM	12	13	21.40	21.29	20.95	22.5
5	64QAM	25	0	21.40	21.19	21.01	
Channel				26705	26865	27025	Tune-up limit (dbm)
Frequency (MHz)				815.5	831.5	847.5	21.62
3	QPSK	1	0	22.55	22.52	22.57	
3	QPSK	1	8	22.46	22.54	22.46	
3	QPSK	1	14	22.51	22.47	22.53	
3	QPSK	8	0	21.78	21.62	21.81	20.62
3	QPSK	8	4	21.95	21.69	21.58	
3	QPSK	8	7	21.95	21.68	21.79	
3	QPSK	15	0	21.80	21.60	21.70	
3	16QAM	1	0	21.91	21.85	21.86	20.62
3	16QAM	1	8	21.90	21.79	21.82	
3	16QAM	1	14	21.88	21.73	21.73	
3	16QAM	8	0	21.97	21.60	21.67	
3	16QAM	8	4	21.91	21.58	21.62	22.5
3	16QAM	8	7	21.67	21.64	21.58	
3	16QAM	15	0	21.74	21.61	21.71	
3	64QAM	1	0	21.00	21.44	21.23	
3	64QAM	1	8	21.30	21.40	21.14	22.5
3	64QAM	1	14	21.24	21.40	21.30	
3	64QAM	8	0	21.13	21.18	21.08	
3	64QAM	8	4	21.13	21.22	21.08	
3	64QAM	8	7	21.40	21.28	21.07	22.5
3	64QAM	15	0	21.40	21.26	21.05	
Channel				26697	26865	27033	Tune-up limit (dbm)
Frequency (MHz)				814.7	831.5	848.3	23.5
1.4	QPSK	1	0	22.42	22.52	22.52	
1.4	QPSK	1	3	22.41	22.52	22.44	
1.4	QPSK	1	5	22.41	22.43	22.43	
1.4	QPSK	3	0	22.55	22.43	22.45	23.5
1.4	QPSK	3	1	22.46	22.46	22.51	
1.4	QPSK	3	3	22.46	22.52	22.54	
1.4	QPSK	6	0	21.56	21.78	21.81	

3	16QAM	1	0	21.73	21.81	21.97	22.5
3	16QAM	1	8	22.01	21.97	21.81	
3	16QAM	1	14	22.07	21.97	21.92	
3	16QAM	8	0	21.51	21.51	21.51	22.5
3	16QAM	8	4	21.51	21.67	21.86	
3	16QAM	8	7	21.62	21.81	21.87	
3	16QAM	15	0	21.66	21.56	21.77	22.5
3	64QAM	1	0	21.71	21.53	21.68	
3	64QAM	1	8	21.75	21.46	21.47	
3	64QAM	1	14	21.66	21.47	21.49	22.5
3	64QAM	8	0	21.54	21.64	21.80	
3	64QAM	8	4	21.49	21.69	21.76	
3	64QAM	8	7	21.47	21.53	21.87	22.5
3	64QAM	15	0	21.46	21.54	21.75	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	22.53	22.53	22.51	23.5
1.4	QPSK	1	3	22.50	22.51	22.45	
1.4	QPSK	1	5	22.45	22.51	22.42	
1.4	QPSK	3	0	22.40	22.44	22.53	
1.4	QPSK	3	1	22.43	22.47	22.50	
1.4	QPSK	3	3	22.48	22.41	22.45	22.5
1.4	QPSK	6	0	21.72	21.89	21.71	
1.4	16QAM	1	0	22.03	21.85	21.55	
1.4	16QAM	1	3	21.81	21.55	21.80	22.5
1.4	16QAM	1	5	21.55	21.81	21.92	
1.4	16QAM	3	0	21.78	21.80	21.82	
1.4	16QAM	3	1	21.82	21.97	22.03	
1.4	16QAM	3	3	21.59	21.83	22.07	
1.4	16QAM	6	0	21.69	21.82	21.49	22.5
1.4	64QAM	1	0	21.49	21.79	21.66	22.5
1.4	64QAM	1	3	21.47	21.82	21.49	
1.4	64QAM	1	5	21.48	21.89	21.68	
1.4	64QAM	3	0	21.55	21.67	21.49	
1.4	64QAM	3	1	21.46	21.49	21.47	
1.4	64QAM	3	3	21.71	21.47	21.79	22.5
1.4	64QAM	6	0	21.52	21.70	21.75	

1.4	16QAM	1	0	21.61	21.68	21.68	22.5
1.4	16QAM	1	3	21.68	21.62	21.62	
1.4	16QAM	1	5	21.77	21.91	21.72	
1.4	16QAM	3	0	21.78	21.54	21.79	
1.4	16QAM	3	1	21.78	21.57	21.70	
1.4	16QAM	3	3	21.78	21.55	21.51	22.5
1.4	16QAM	6	0	22.14	22.11	22.09	
1.4	64QAM	1	0	21.34	21.31	21.36	22.5
1.4	64QAM	1	3	21.40	21.40	21.40	
1.4	64QAM	1	5	21.30	21.33	21.44	
1.4	64QAM	3	0	21.39	21.40	21.40	
1.4	64QAM	3	1	21.44	21.32	21.36	
1.4	64QAM	3	3	21.36	21.40	21.31	22.5
1.4	64QAM	6	0	21.43	21.36	21.07	

Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.59	23.65	23.63	24.5
20	QPSK	1	49	23.44	23.43	23.39	
20	QPSK	1	99	23.37	23.36	23.39	
20	QPSK	50	0	22.51	22.58	22.54	23.5
20	QPSK	50	24	22.32	22.34	22.47	
20	QPSK	50	50	22.36	22.44	22.32	
20	QPSK	100	0	22.34	22.34	22.26	
20	16QAM	1	0	22.39	22.15	22.43	
20	16QAM	1	49	22.44	22.18	22.24	
20	16QAM	1	99	22.44	22.62	22.41	23.5
20	16QAM	50	0	22.56	22.53	22.50	
20	16QAM	50	24	22.45	22.45	22.46	
20	16QAM	50	50	22.42	22.34	22.30	23.5
20	16QAM	100	0	22.38	22.41	22.47	
20	64QAM	1	0	22.54	22.31	22.64	
20	64QAM	1	49	22.31	22.64	22.63	23.5
20	64QAM	1	99	22.54	22.66	22.74	
20	64QAM	50	0	22.50	22.40	22.53	
20	64QAM	50	24	22.44	22.38	22.50	23.5
20	64QAM	50	50	22.46	22.34	22.40	
20	64QAM	100	0	22.45	22.45	22.43	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.38	23.42	23.40	24.5
15	QPSK	1	37	23.52	23.38	23.36	
15	QPSK	1	74	23.36	23.32	23.30	
15	QPSK	36	0	22.33	22.30	22.34	23.5
15	QPSK	36	20	22.33	22.25	22.35	
15	QPSK	36	39	22.19	22.24	22.21	
15	QPSK	75	0	22.28	22.32	22.25	23.5
15	16QAM	1	0	22.27	22.14	22.44	
15	16QAM	1	37	22.14	22.44	22.37	
15	16QAM	1	74	22.24	22.14	22.14	23.5
15	16QAM	36	0	22.45	22.45	22.36	
15	16QAM	36	20	22.48	22.47	22.53	
15	16QAM	36	39	22.40	22.55	22.49	23.5
15	16QAM	75	0	22.50	22.48	22.44	
15	64QAM	1	0	22.64	22.54	22.64	
15	64QAM	1	37	22.66	22.44	22.54	23.5
15	64QAM	1	74	22.31	22.57	22.64	
15	64QAM	36	0	22.43	22.42	22.55	
15	64QAM	36	20	22.53	22.49	22.50	23.5
15	64QAM	36	39	22.42	22.36	22.40	
15	64QAM	75	0	22.44	22.46	22.43	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.36	23.36	23.37	24.5
10	QPSK	1	25	23.26	23.24	23.32	
10	QPSK	1	49	23.40	23.28	23.18	
10	QPSK	25	0	22.59	22.52	22.59	23.5
10	QPSK	25	12	22.56	22.75	22.53	
10	QPSK	25	25	22.57	22.53	22.45	
10	QPSK	50	0	22.65	22.50	22.69	23.5
10	16QAM	1	0	22.57	22.57	22.77	
10	16QAM	1	25	22.57	22.66	22.78	
10	16QAM	1	49	22.40	22.60	22.48	23.5
10	16QAM	25	0	22.41	22.58	22.46	
10	16QAM	25	12	22.40	22.60	22.51	
10	16QAM	25	25	22.31	22.36	22.36	23.5
10	16QAM	50	0	22.47	22.51	22.52	
10	64QAM	1	0	22.47	22.47	22.14	
10	64QAM	1	25	22.14	22.27	22.17	23.5
10	64QAM	1	49	22.14	22.14	22.14	
10	64QAM	25	0	22.47	22.45	22.47	
10	64QAM	25	12	22.46	22.50	22.54	23.5
10	64QAM	25	25	22.46	22.39	22.41	
10	64QAM	50	0	22.36	22.46	22.47	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.25	23.28	23.33	24.5
5	QPSK	1	12	23.28	23.28	23.27	
5	QPSK	1	24	23.36	23.26	23.32	
5	QPSK	12	0	22.28	22.30	22.26	23.5
5	QPSK	12	7	22.30	22.38	22.31	
5	QPSK	12	13	22.21	22.27	22.28	
5	QPSK	25	0	22.31	22.32	22.31	23.5
5	16QAM	1	0	22.80	22.49	22.50	
5	16QAM	1	12	22.43	22.72	22.67	
5	16QAM	1	24	22.55	22.44	22.79	23.5
5	16QAM	12	0	22.44	22.55	22.51	
5	16QAM	12	7	22.61	22.53	22.65	
5	16QAM	12	13	22.52	22.46	22.53	23.5
5	16QAM	25	0	22.53	22.55	22.47	
5	64QAM	1	0	22.14	22.54	22.34	
5	64QAM	1	12	22.44	22.44	22.44	23.5
5	64QAM	1	24	22.27	22.31	22.27	
5	64QAM	12	0	22.51	22.26	22.47	
5	64QAM	12	7	22.59	22.18	22.49	23.5
5	64QAM	12	13	22.42	22.54	22.49	
5	64QAM	25	0	22.49	22.57	22.44	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.32	23.23	23.22	24.5
3	QPSK	1	8	23.19	23.20	23.28	
3	QPSK	1	14	23.10	22.91	23.21	
3	QPSK	8	0	22.54	22.51	22.55	23.5
3	QPSK	8	4	22.54	22.46	22.56	
3	QPSK	8	7	22.40	22.45	22.42	
3	QPSK	15	0	22.49	22.53	22.46	

Band 71							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	22.49	22.56	22.53	23.5
20	QPSK	1	49	22.48	22.50	22.50	
20	QPSK	1	99	22.40	22.46	22.43	
20	QPSK	50	0	21.60	21.82	21.68	22.5
20	QPSK	50	24	21.53	21.60	21.56	
20	QPSK	50	50	21.57	21.62	21.56	
20	QPSK	100	0	21.45	21.56	21.59	22.5
20	16QAM	1	0	21.57	21.57	21.50	
20	16QAM	1	49	21.56	21.16	21.56	
20	16QAM	1	99	21.50	21.49	21.60	22.5
20	16QAM	50	0	21.35	21.49	21.10	
20	16QAM	50	24	21.46	21.28	21.19	
20	16QAM	50	50	21.45	21.09	21.13	22.5
20	16QAM	100	0	21.46	21.49	21.15	
20	64QAM	1	0	21.27	21.55	21.58	
20	64QAM	1	49	21.27	21.46	21.56	22.5
20	64QAM	1	99	21.29	21.56	21.60	
20	64QAM	50	0	21.28	21.27	21.16	
20	64QAM	50	24	21.30	21.26	21.25	22.5
20	64QAM	50	50	21.28	21.05	21.27	
20	64QAM	100	0	21.28	21.24	21.15	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.22	22.40	22.41	23.5
15	QPSK	1	37	22.20	22.33	22.44	
15	QPSK	1	74	22.22	22.44	22.41	
15	QPSK	36	0	21.31	21.56	21.60	22.5
15	QPSK	36	20	21.51	21.60	21.56	
15	QPSK	36	39	21.58	21.56	21.49	
15	QPSK	75	0	21.46	21.46	21.47	22.5
15	16QAM	1	0	21.54	21.56	21.46	
15	16QAM	1	37	21.56	21.60	21.28	
15	16QAM	1	74	21.57	21.47	21.27	22.5
15	16QAM	36	0	21.34	21.30	21.19	
15	16QAM	36	20	21.32	21.46	21.23	
15	16QAM	36	39	21.34	21.36	21.21	22.5
15	16QAM	75	0	21.30	21.25	21.19	
15	64QAM	1	0	21.41	21.30	21.46	
15	64QAM	1	37	21.29	21.30	21.28	22.5
15	64QAM	1	74	21.24	21.32	21.49	
15	64QAM	36	0	21.16	21.31	21.24	
15	64QAM	36	20	21.44	21.30	21.18	22.5
15	64QAM	36	39	21.28	21.28	21.29	
15	64QAM	75	0	21.46	21.28	21.32	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.25	22.44	22.23	23.5
10	QPSK	1	25	22.36	22.23	22.43	
10	QPSK	1	49	22.37	22.39	22.12	
10	QPSK	25	0	21.30	21.16	21.16	22.5
10	QPSK	25	12	21.53	21.49	21.20	
10	QPSK	25	25	21.54	21.56	21.16	
10	QPSK	50	0	21.52	21.44	21.16	22.5
10	16QAM	1	0	21.38	21.15	21.46	
10	16QAM	1	25	21.26	21.16	21.56	
10	16QAM	1	49	21.63	21.19	21.28	22.5
10	16QAM	25	0	21.16	21.27	21.23	
10	16QAM	25	12	21.46	21.16	21.29	
10	16QAM	25	25	21.16	21.30	21.35	22.5
10	16QAM	50	0	21.28	21.32	21.24	
10	64QAM	1	0	21.28	21.31	21.24	
10	64QAM	1	25	21.19	21.44	21.34	22.5
10	64QAM	1	49	21.55	21.29	21.34	
10	64QAM	25	0	21.14	21.14	21.24	
10	64QAM	25	12	21.14	21.34	21.35	22.5
10	64QAM	25	25	21.10	21.30	21.26	
10	64QAM	50	0	21.16	21.32	21.22	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.29	22.39	22.23	23.5
5	QPSK	1	12	22.23	22.44	22.42	
5	QPSK	1	24	22.23	22.22	22.21	
5	QPSK	12	0	21.43	21.91	21.50	22.5
5	QPSK	12	7	21.57	21.56	21.56	
5	QPSK	12	13	21.45	21.47	21.49	
5	QPSK	25	0	21.49	21.50	21.16	22.5
5	16QAM	1	0	21.45	21.56	21.46	
5	16QAM	1	12	21.28	21.46	21.16	
5	16QAM	1	24	21.28	21.29	21.28	22.5
5	16QAM	12	0	21.29	21.34	21.28	
5	16QAM	12	7	21.28	21.30	21.28	
5	16QAM	12	13	21.19	21.31	21.28	22.5
5	16QAM	25	0	21.46	21.18	21.36	
5	64QAM	1	0	21.22	21.55	21.16	
5	64QAM	1	12	21.49	21.49	21.56	22.5
5	64QAM	1	24	21.49	21.49	21.46	
5	64QAM	12	0	21.20	21.32	21.28	
5	64QAM	12	7	21.29	21.30	21.21	22.5
5	64QAM	12	13	21.28	21.31	21.18	
5	64QAM	25	0	21.32	21.34	21.25	

3	16QAM	1	0	22.18	22.59	22.35	23.5
3	16QAM	1	8	22.51	22.45	22.44	
3	16QAM	1	14	22.55	22.44	22.14	
3	16QAM	8	0	22.36	22.36	22.27	23.5
3	16QAM	8	4	22.39	22.38	22.44	
3	16QAM	8	7	22.31	22.46	22.40	
3	16QAM	15	0	22.41	22.39	22.35	23.5
3	64QAM	1	0	22.55	22.45	22.55	
3	64QAM	1	8	22.57	22.35	22.45	
3	64QAM	1	14	22.22	22.48	22.55	23.5
3	64QAM	8	0	22.34	22.33	22.46	
3	64QAM	8	4	22.44	22.40	22.41	
3	64QAM	8	7	22.33	22.27	22.31	23.5
3	64QAM	15	0	22.35	22.37	22.34	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.26	23.17	23.18	24.5
1.4	QPSK	1	3	23.32	23.34	23.34	
1.4	QPSK	1	5	23.24	23.12	23.28	
1.4	QPSK	3	0	23.23	23.16	23.23	
1.4	QPSK	3	1	23.20	23.26	23.17	
1.4	QPSK	3	3	23.21	23.17	23.09	
1.4	QPSK	6	0	22.57	22.42	22.61	23.5
1.4	16QAM	1	0	22.49	22.49	22.69	23.5
1.4	16QAM	1	3	22.49	22.58	22.70	
1.4	16QAM	1	5	22.32	22.52	22.40	
1.4	16QAM	3	0	22.03	22.00	22.26	
1.4	16QAM	3	1	22.12	22.02	22.14	
1.4	16QAM	3	3	22.13	22.14	22.08	
1.4	16QAM	6	0	22.02	21.93	21.94	23.5
1.4	64QAM	1	0	22.36	22.21	22.37	23.5
1.4	64QAM	1	3	22.09	22.18	22.18	
1.4	64QAM	1	5	22.06	22.06	22.17	
1.4	64QAM	3	0	22.39	22.37	22.39	
1.4	64QAM	3	1	22.38	22.42	22.46	
1.4	64QAM	3	3	22.38	22.31	22.33	
1.4	64QAM	6	0	22.28	22.38	22.39	23.5

Band 41 (2496~2690MHz) Class2										
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	40600	41055	41460		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.33	25.43	25.45	25.38	25.39	26	
20	QPSK	1	49	25.29	25.38	25.38	25.39	25.39		
20	QPSK	1	99	25.23	25.39	25.34	25.44	25.19		
20	QPSK	50	0	24.29	24.54	24.55	24.53	24.48		
20	QPSK	50	24	24.29	24.39	24.32	24.29	24.29	25	
20	QPSK	50	50	24.32	24.53	24.33	24.32	24.39		
20	QPSK	100	0	24.29	24.32	24.39	24.33	24.29		
20	16QAM	1	0	24.33	24.49	24.32	24.39	24.29		
20	16QAM	1	49	24.32	24.37	24.32	24.27	24.29	25	
20	16QAM	1	99	24.39	24.29	24.39	24.37	24.39		
20	16QAM	50	0	24.30	24.39	24.32	24.62	24.29		
20	16QAM	50	24	24.28	24.60	24.29	24.30	24.29		
20	16QAM	50	50	24.34	24.66	24.75	24.36	24.38	25	
20	16QAM	100	0	24.28	24.59	24.74	24.43	24.32		
20	64QAM	1	0	24.43	24.34	24.54	24.37	24.33		
20	64QAM	1	49	24.36	24.46	24.36	24.65	24.33		
20	64QAM	1	99	24.46	24.41	24.32	24.41	24.29	25	
20	64QAM	50	0	24.42	24.38	24.35	24.30	24.39		
20	64QAM	50	24	24.27	24.54	24.42	24.39	24.32		
20	64QAM	50	50	24.37	24.53	24.56	24.45	24.38		
20	64QAM	100	0	24.35	24.63	24.59	24.27	24.39	Tune-up limit (dBm)	
Channel				39725	40173	40600	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.99	25.15	25.35	25.22	25.21	26	
15	QPSK	1	37	24.98	25.33	25.39	25.22	25.32		
15	QPSK	1	74	24.98	25.31	25.32	25.15	25.12		
15	QPSK	36	0	24.15	24.49	24.34	24.54	24.55		
15	QPSK	36	20	24.20	24.54	24.30	24.50	24.43	25	
15	QPSK	36	39	24.36	24.57	24.29	24.53	24.26		
15	QPSK	75	0	24.14	24.59	24.32	24.56	24.22		
15	16QAM	1	0	24.08	24.40	24.69	24.34	24.14		
15	16QAM	1	37	24.29	24.57	24.26	24.40	24.23	25	
15	16QAM	1	74	24.25	24.49	23.83	24.24	24.16		
15	16QAM	36	0	24.12	24.56	24.23	24.43	24.61		
15	16QAM	36	20	24.17	24.50	24.19	24.39	24.63		
15	16QAM	36	39	24.24	24.63	24.73	24.43	24.39	25	
15	16QAM	75	0	24.15	24.64	24.21	24.43	23.99		
15	64QAM	1	0	24.45	24.35	24.59	24.23	24.73		
15	64QAM	1	37	24.73	24.49	24.73	24.30	23.85		
15	64QAM	1	74	24.70	24.42	24.62	24.70	23.58	25	
15	64QAM	36	0	24.14	24.48	24.30	24.44	24.22		
15	64QAM	36	20	24.29	24.59	24.74	24.37	24.11		
15	64QAM	36	39	24.24	24.58	24.71	24.43	24.03		
15	64QAM	75	0	24.22	24.59	24.71	24.47	24.11	Tune-up limit (dBm)	
Channel				39700	40160	40600	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.03	25.24	25.32	25.20	25.19	26	
10	QPSK	1	25	25.23	25.29	25.19	25.15	25.14		
10	QPSK	1	49	25.00	25.16	25.39	25.16	25.15		
10	QPSK	25	0	24.11	24.54	24.42	24.38	24.39		
10	QPSK	25	12	24.19	24.53	24.31	24.38	24.39	25	
10	QPSK	25	25	24.23	24.62	24.26	24.42	24.75		
10	QPSK	50	0	24.28	24.66	24.34	24.40	23.99		
10	16QAM	1	0	24.14	24.01	24.16	24.41	24.19		
10	16QAM	1	25	24.32	24.10	24.31	24.24	24.23	25	
10	16QAM	1	49	24.18	24.06	24.23	24.37	24.38		
10	16QAM	25	0	24.18	24.09	24.37	24.55	24.04		
10	16QAM	25	12	24.31	24.06	24.23	24.49	23.80		
10	16QAM	25	25	24.28	24.13	24.35	24.62	24.31	25	
10	16QAM	50	0	24.26	24.09	24.33	24.51	24.07		
10	64QAM	1	0	24.08	24.44	24.04	24.38	24.44		
10	64QAM	1	25	24.11	24.56	24.21	24.43	24.39		
10	64QAM	1	49	24.09	24.45	24.06	24.34	24.20	25	
10	64QAM	25	0	24.16	24.59	24.29	24.47	24.36		
10	64QAM	25	12	24.19	24.56	24.18	24.47	24.11		
10	64QAM	25	25	24.28	24.60	24.27	24.44	24.34		
10	64QAM	50	0	24.24	24.57	24.32	24.53	24.40	Tune-up limit (dBm)	
Channel				39875	40148	40600	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5		
5	QPSK	1	0	25.00	25.09	25.32	25.29	25.10	26	
5	QPSK	1	12	24.99	25.24	25.19	25.32	25.14		
5	QPSK	1	24	25.12	25.15	25.29	25.02	25.15		
5	QPSK	12	0	24.13	24.47	24.51	24.60	24.11		
5	QPSK	12	7	24.21	24.60	24.36	24.66	24.33	25	
5	QPSK	12	13	24.15	24.60	24.58	24.72	24.39		
5	QPSK	25	0	24.18	24.61	24.59	24.74	24.32		
5	16QAM	1	0	24.62	24.44	24.60	24.29	24.23		
5	16QAM	1	12	24.23	24.61	24.77	24.45	24.13	25	
5	16QAM	1	24	24.09	24.47	24.58	24.30	24.39		
5	16QAM	12	0	24.07	24.02	24.24	24.42	24.19		
5	16QAM	12	7	24.19	23.97	24.34	24.53	24.32		
5	16QAM	12	13	24.25	24.10	24.24	24.46	24.11	25	
5	16QAM	25	0	24.17	23.98	24.32	24.53	24.09		
5	64QAM	1	0	24.44	24.29	24.56	24.31	24.14		
5	64QAM	1	12	24.64	24.50	24.69	24.40	24.10		
5	64QAM	1	24	24.49	24.35	24.62	24.26	24.43	25	
5	64QAM	12	0	24.44	24.53	24.62	24.34	24.30		
5	64QAM	12	7	24.45	24.01	24.30	24.52	24.38		
5	64QAM	12	13	24.43	24.00	24.09	24.40	24.29		
5	64QAM	25	0	24.17	24.00	24.15	24.49	24.11	Tune-up limit (dBm)	

Band 41 (2496~2690MHz) Class3										
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	40600	41055	41460		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.67	23.77	23.79	23.72	23.73	24.5	
20	QPSK	1	49	23.63	23.72	23.72	23.73	23.73		
20	QPSK	1	99	23.57	23.73	23.68	23.78	23.53		
20	QPSK	50	0	22.63	22.88	22.89	22.87	22.82		
20	QPSK	50	24	22.63	22.73	22.66	22.63	22.63	23.5	
20	QPSK	50	50	22.66	22.87	22.87	22.66	22.73		
20	QPSK	100	0	22.63	22.66	22.73	22.67	22.63		
20	16QAM	1	0	22.59	22.75	22.58	22.65	22.55		
20	16QAM	1	49	22.58	22.63	22.58	22.53	22.55	23.5	
20	16QAM	1	99	22.65	22.55	22.65	22.63	22.65		
20	16QAM	50	0	22.56	22.65	22.58	22.68	22.55		
20	16QAM	50	24	22.54	22.86	22.55	22.65	22.55		
20	16QAM	50	50	22.60	22.92	23.00	22.82	22.65	23.5	
20	16QAM	100	0	22.54	22.85	23.00	22.69	22.58		
20	64QAM	1	0	22.69	22.60	22.80	22.63	22.59		
20	64QAM	1	49	22.62	22.72	22.62	22.61	22.59	23.5	
20	64QAM	1	99	22.72	22.67	22.58	22.72	22.55		
20	64QAM	50	0	22.68	22.64	22.61	22.56	22.65		
20	64QAM	50	24	22.53	22.80	22.68	22.65	22.58	23.5	
20	64QAM	50	50	22.63	22.79	22.82	22.71	22.64		
20	64QAM	100	0	22.61	22.62	22.69	22.53	22.65		
20	64QAM	100	24	22.62	22.72	22.69	22.65	22.58		
Channel				39725	40171	40600	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2501.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.33	23.49	23.69	23.56	23.55	24.5	
15	QPSK	1	37	23.32	23.67	23.73	23.58	23.66		
15	QPSK	1	74	23.32	23.65	23.66	23.49	23.46		
15	QPSK	36	0	22.49	22.83	22.68	22.68	22.89		
15	QPSK	36	20	22.54	22.88	22.64	22.84	22.77	23.5	
15	QPSK	36	39	22.70	22.91	22.63	22.87	22.60		
15	QPSK	75	0	22.48	22.93	22.68	22.90	22.56		
15	QPSK	75	37	22.34	22.86	22.65	22.60	22.65		
15	16QAM	1	37	22.55	22.83	22.62	22.68	22.49	23.5	
15	16QAM	1	74	22.51	22.75	22.69	22.50	22.42		
15	16QAM	36	0	22.38	22.82	22.49	22.69	22.87		
15	16QAM	36	20	22.43	22.76	22.45	22.85	22.89		
15	16QAM	36	39	22.50	22.89	22.99	22.69	22.85	23.5	
15	16QAM	75	0	22.41	22.90	22.47	22.89	22.25		
15	16QAM	75	37	22.31	22.81	22.85	22.49	22.59		
15	16QAM	1	37	22.58	22.75	22.99	22.62	22.71		
15	64QAM	1	74	22.40	22.68	22.65	22.96	21.84	23.5	
15	64QAM	36	0	22.40	22.74	22.56	22.70	22.48		
15	64QAM	36	20	22.55	22.85	23.00	22.63	22.37		
15	64QAM	36	39	22.50	22.84	22.97	22.69	22.29		
15	64QAM	75	0	22.48	22.85	22.97	22.73	22.37		
Channel				39700	40160	40600	41080	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.37	23.58	23.66	23.54	23.53	24.5	
10	QPSK	1	25	23.57	23.63	23.53	23.49	23.48		
10	QPSK	1	49	23.34	23.50	23.73	23.73	23.49		
10	QPSK	25	0	22.45	22.88	22.78	22.72	22.73		
10	QPSK	25	12	22.53	22.87	22.65	22.72	22.73	23.5	
10	QPSK	25	37	22.57	22.96	22.80	22.76	23.00		
10	QPSK	50	0	22.62	23.00	22.88	22.74	22.33		
10	16QAM	1	0	22.40	22.27	22.42	22.67	22.45		
10	16QAM	1	25	22.58	22.36	22.57	22.50	22.49	23.5	
10	16QAM	1	49	22.44	22.32	22.49	22.63	22.64		
10	16QAM	25	0	22.44	22.35	22.63	22.81	22.30		
10	16QAM	25	12	22.57	22.32	22.49	22.75	22.06		
10	16QAM	25	25	22.54	22.39	22.61	22.88	22.57	23.5	
10	16QAM	50	0	22.52	22.35	22.57	22.77	22.33		
10	16QAM	1	0	22.34	22.70	22.30	22.64	22.70		
10	64QAM	1	25	22.37	22.82	22.47	22.68	22.65		
10	64QAM	1	49	22.35	22.71	22.34	22.80	22.46	23.5	
10	64QAM	25	0	22.42	22.85	22.55	22.73	22.82		
10	64QAM	25	12	22.45	22.82	22.44	22.73	22.37		
10	64QAM	25	25	22.54	22.86	22.53	22.70	22.80		
10	64QAM	50	0	22.50	22.83	22.58	22.79	22.86		
Channel				39675	40146	40620	41093	41585	Tune-up limit (dBm)	
Frequency (MHz)				2496.5	2543.8	2593	2643.5	2693.5		
5	QPSK	1	0	23.34	23.43	23.60	23.63	23.44	24.5	
5	QPSK	1	12	23.33	23.58	23.53	23.66	23.48		
5	QPSK	1	24	23.46	23.49	23.63	23.36	23.49		
5	QPSK	12	0	22.47	22.81	22.85	23.04	22.45		
5	QPSK	12	7	22.55	22.94	22.70	23.00	22.67	23.5	
5	QPSK	12	13	22.49	22.94	22.92	23.06	22.73		
5	QPSK	25	0	22.52	22.95	22.93	23.08	22.66		
5	16QAM	1	0	22.48	22.70	22.85	22.55	22.49		
5	16QAM	1	7	22.49	22.87	23.03	22.71	22.39	23.5	
5	16QAM	1	24	22.35	22.73	22.84	22.56	22.65		
5	16QAM	12	0	22.33	22.28	22.50	22.68	22.45		
5	16QAM	12	7	22.45	22.32	22.46	22.79	22.38		
5	16QAM	12	13	22.51	22.36	22.50	22.72	22.37	23.5	
5	16QAM	25	0	22.43	22.24	22.58	22.79	22.35		
5	64QAM	1	0	22.70	22.55	22.82	22.57	22.40		
5	64QAM	1	12	22.90	22.76	22.86	22.66	22.36		
5	64QAM	1	24	22.75	22.61	22.88	22.52	22.69	23.5	
5	64QAM	12	0	22.70	22.79	22.48	22.60	22.56		
5	64QAM	12	7	22.71	22.27	22.56	22.78	22.64		
5	64QAM	12	13	22.69	22.28	22.56	22.65	22.55		
5	64QAM	25	0	22.43	22.26	22.41	22.75	22.37		

CA_41C (Class2)										
Combination:20MHz+20MHz(100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
39750	39948	QPSK	1	0	0	0	1	0	22.40	23
40185	39987	QPSK	1	0	0	0	1	0	22.34	23
40620	40422	QPSK	1	0	0	0	1	0	22.43	23
41055	40857	QPSK	1	0	0	0	1	0	22.20	23
41490	41292	QPSK	1	0	0	0	1	0	22.31	23
39750	39948	16QAM	1	0	0	0	1	0	21.58	22
40185	39987	16QAM	1	0	0	0	1	0	21.49	22
40620	40422	16QAM	1	0	0	0	1	0	21.59	22
41055	40857	16QAM	1	0	0	0	1	0	21.32	22
41490	41292	16QAM	1	0	0	0	1	0	21.46	22
39750	39948	64QAM	1	0	0	0	1	0	21.30	22
40185	39987	64QAM	1	0	0	0	1	0	21.24	22
40620	40422	64QAM	1	0	0	0	1	0	21.16	22
41055	40857	64QAM	1	0	0	0	1	0	21.32	22
41490	41292	64QAM	1	0	0	0	1	0	21.02	22
39750	39948	QPSK	50	0	0	0	1	0	21.27	22
40185	39987	QPSK	50	0	0	0	1	0	21.40	22
40620	40422	QPSK	50	0	0	0	1	0	21.45	22
41055	40857	QPSK	50	0	0	0	1	0	21.33	22
41490	41292	QPSK	50	0	0	0	1	0	21.02	22

CA_41C (Class3)										
Combination:20MHz+20MHz(100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
39750	39948	QPSK	1	0	0	0	1	0	20.75	21.5
40185	39987	QPSK	1	0	0	0	1	0	20.82	21.5
40620	40422	QPSK	1	0	0	0	1	0	20.86	21.5
41055	40857	QPSK	1	0	0	0	1	0	20.78	21.5
41490	41292	QPSK	1	0	0	0	1	0	20.73	21.5
39750	39948	16QAM	1	0	0	0	1	0	19.92	20.5
40185	39987	16QAM	1	0	0	0	1	0	19.81	20.5
40620	40422	16QAM	1	0	0	0	1	0	19.75	20.5
41055	40857	16QAM	1	0	0	0	1	0	19.67	20.5
41490	41292	16QAM	1	0	0	0	1	0	19.72	20.5
39750	39948	64QAM	1	0	0	0	1	0	19.42	20.5
40185	39987	64QAM	1	0	0	0	1	0	19.44	20.5
40620	40422	64QAM	1	0	0	0	1	0	19.26	20.5
41055	40857	64QAM	1	0	0	0	1	0	19.38	20.5
41490	41292	64QAM	1	0	0	0	1	0	19.42	20.5
39750	39948	QPSK	50	0	0	0	1	0	19.87	20.5
40185	39987	QPSK	50	0	0	0	1	0	19.92	20.5
40620	40422	QPSK	50	0	0	0	1	0	19.94	20.5
41055	40857	QPSK	50	0	0	0	1	0	19.72	20.5
41490	41292	QPSK	50	0	0	0	1	0	19.55	20.5

2.4GHz WLAN

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	12.52	13.00	14	98.79
		CH 7	2442	14.70	15.50	14	
		CH 13	2472	13.43	14.00	14	
	802.11g 6Mbps	CH 1	2412	9.75	10.50	12	98.31
		CH 7	2442	11.76	12.50	12	
		CH 13	2472	6.41	11.00	8	
	802.11n-HT20 MCS0	CH 1	2412	9.63	10.00	12	98.18
		CH 7	2442	11.66	12.50	12	
		CH 13	2472	5.64	11.00	7	
	802.11n-HT40 MCS0	CH 1	2412	10.81	11.50	12	94.87
		CH 7	2442	12.32	13.00	12	
		CH 13	2472	10.33	11.00	12	

5GHz WLAN

5.2GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	10.20	11.00	12	98.31
		CH 44	5220	11.28	12.00	12	
		CH 48	5240	11.63	12.00	12	
	802.11n-HT20 MCS0	CH 36	5180	10.13	11.00	12	98.18
		CH 44	5220	11.17	12.00	12	
		CH 48	5240	11.57	12.00	12	
	802.11n-HT40 MCS0	CH 38	5190	11.27	12.00	12	96.37
		CH 46	5230	12.19	13.00	12	
		CH 36	5180	8.47	9.00	10	
	802.11ac-VHT20 MCS0	CH 44	5220	9.47	10.00	10	98.20
		CH 48	5240	9.84	10.00	10	
		CH 38	5190	9.55	10.00	10	
	802.11ac-VHT40 MCS0	CH 46	5230	10.48	11.00	10	96.41
		CH 42	5210	9.78	10.00	10	
	802.11ac-VHT80 MCS0	CH 42	5210	9.78	10.00	10	92.68

5GHz WLAN

5.8GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	12.63	13.00	12	98.31
		CH 157	5785	10.53	11.00	12	
		CH 165	5825	8.94	9.50	12	
	802.11n-HT20 MCS0	CH 149	5745	12.43	13.00	12	98.18
		CH 157	5785	10.43	11.00	12	
		CH 165	5825	8.85	9.50	12	
	802.11n-HT40 MCS0	CH 151	5755	12.97	13.50	12	96.37
		CH 159	5795	11.04	12.00	12	
	802.11ac-VHT20 MCS0	CH 149	5745	10.63	11.00	10	98.20
		CH 157	5785	8.94	9.50	10	
		CH 165	5825	6.25	7.00	10	
	802.11ac-VHT40 MCS0	CH 151	5755	11.14	12.00	10	96.41
		CH 159	5795	9.19	10.00	10	
	802.11ac-VHT80 MCS0	CH 155	5775	10.04	11.00	10	92.68

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	8.81	5.67	6.64
	CH 39	2441	7.71	6.79	7.68
	CH 78	2480	7.79	5.01	5.07
Tune-up Limit			9.5	7	8
Duty Cycle %			77.2	77.6	77.6

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	2.22
	CH 19	2440	4.09
	CH 39	2480	0.86
Tune-up Limit			4.5
Duty Cycle %			66.03