



REPORT No.: SZ24090195S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.

Conducted Power

Project No.:	SZ24090195	EUT No.:			4#	Model Name:			L5510
GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
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		31.82	31.96	31.88	33.00	22.82	22.96	22.88	24.00
GPRS 1 Tx slot		31.86	31.99	31.90	33.00	22.86	22.99	22.90	24.00
GPRS 2 Tx slots		31.08	31.25	31.15	32.00	25.08	25.25	25.15	26.00
GPRS 3 Tx slots		29.20	29.32	29.21	30.00	24.94	25.06	24.95	25.74
GPRS 4 Tx slots		28.08	28.15	28.07	29.00	25.08	25.15	25.07	26.00
EDGE 1 Tx slot		27.01	27.19	27.03	28.00	18.01	18.19	18.03	19.00
EDGE 2 Tx slots		26.03	26.14	26.06	27.00	20.03	20.14	20.06	21.00
EDGE 3 Tx slots		24.11	24.20	24.14	25.00	19.85	19.94	19.88	20.74
EDGE 4 Tx slots		23.06	23.11	23.08	24.00	20.06	20.11	20.08	21.00
Mode			Max.	31.99			Max.	25.25	
Attenuator		Cable Loss : 0.6							
Date		10.1							

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		29.25	29.21	29.05	30.00	20.25	20.21	20.05	21.00
GPRS 1 Tx slot		29.28	29.23	29.08	30.00	20.28	20.23	20.08	21.00
GPRS 2 Tx slots		28.50	28.44	28.38	29.50	22.50	22.44	22.38	23.50
GPRS 3 Tx slots		26.71	26.65	26.47	27.50	22.45	22.39	22.21	23.24
GPRS 4 Tx slots		25.58	25.52	25.46	26.50	22.58	22.52	22.46	23.50
EDGE 1 Tx slot		26.26	26.16	26.04	27.00	17.26	17.16	17.04	18.00
EDGE 2 Tx slots		24.93	24.84	24.76	26.00	18.93	18.84	18.76	20.00
EDGE 3 Tx slots		22.96	22.82	22.75	24.00	18.70	18.56	18.49	19.74
EDGE 4 Tx slots		21.41	21.33	21.30	22.00	18.41	18.33	18.30	19.00
Mode			Max.	29.28			Max.	22.58	
Attenuator		Cable Loss : 0.8							
Date		10.1							

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		4132	4182	4233	
Rx Channel		9662	9800	9938		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	22.32	22.26	22.28	23.00	22.24	22.20	22.19	23.00
3GPP Rel 5	HSDPA Subtest-1	21.32	21.30	21.26	22.00	21.22	21.19	21.16	22.00
3GPP Rel 5	HSDPA Subtest-2	21.27	21.26	21.24	22.00	21.20	21.16	21.13	22.00
3GPP Rel 5	HSDPA Subtest-3	20.81	20.79	20.77	21.50	20.75	20.73	20.70	21.50
3GPP Rel 5	HSDPA Subtest-4	20.80	20.77	20.74	21.50	20.72	20.70	20.69	21.50
Attenuator			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	22.32			Max.	22.24	
Date		10.1				10.1			

Band 2 (1900MHz Band) (dBm)

Part 24F

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	22.51	22.44	22.40	23.5
20	QPSK	1	49	22.87	22.83	22.79	
20	QPSK	1	99	22.46	22.42	22.44	
20	QPSK	50	0	21.87	21.85	21.82	22.5
20	QPSK	50	24	21.84	21.76	21.80	
20	QPSK	50	50	21.82	21.74	21.74	
20	QPSK	100	0	21.81	21.72	21.76	22.5
20	16QAM	1	0	21.79	21.75	21.71	
20	16QAM	1	49	22.10	22.05	22.03	
20	16QAM	1	99	21.74	21.66	21.64	21.5
20	16QAM	50	0	20.88	20.82	20.84	
20	16QAM	50	24	20.85	20.82	20.76	
20	16QAM	50	50	20.83	20.81	20.75	21.5
20	16QAM	100	0	20.81	20.75	20.73	
20	64QAM	1	0	20.71	20.62	20.69	
20	64QAM	1	49	21.10	21.07	21.06	21.5
20	64QAM	1	99	20.66	20.62	20.60	
20	64QAM	50	0	19.92	19.87	19.82	20.5
20	64QAM	50	24	19.88	19.87	19.83	
20	64QAM	50	50	19.87	19.80	19.81	
20	64QAM	100	0	19.85	19.78	19.75	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	22.48	22.36	22.31	23.5
15	QPSK	1	37	22.79	22.81	22.74	
15	QPSK	1	74	22.38	22.41	22.42	
15	QPSK	36	0	21.77	21.79	21.73	22.5
15	QPSK	36	20	21.81	21.69	21.76	
15	QPSK	36	39	21.72	21.66	21.64	
15	QPSK	75	0	21.72	21.70	21.66	22.5
15	16QAM	1	0	21.77	21.68	21.63	
15	16QAM	1	37	22.03	22.02	21.97	
15	16QAM	1	74	21.70	21.60	21.55	21.5
15	16QAM	36	0	20.83	20.77	20.74	
15	16QAM	36	20	20.81	20.78	20.68	
15	16QAM	36	39	20.79	20.78	20.65	21.5
15	16QAM	75	0	20.77	20.69	20.71	
15	64QAM	1	0	20.63	20.52	20.68	
15	64QAM	1	37	21.07	21.06	21.01	21.5
15	64QAM	1	74	20.56	20.60	20.51	
15	64QAM	36	0	19.91	19.79	19.80	20.5
15	64QAM	36	20	19.84	19.81	19.74	
15	64QAM	36	39	19.82	19.73	19.72	
15	64QAM	75	0	19.76	19.69	19.65	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)

10	QPSK	1	0	22.47	22.35	22.33	23.5
10	QPSK	1	25	22.84	22.74	22.74	
10	QPSK	1	49	22.38	22.40	22.40	
10	QPSK	25	0	21.81	21.81	21.76	22.5
10	QPSK	25	12	21.78	21.68	21.77	
10	QPSK	25	25	21.78	21.71	21.69	
10	QPSK	50	0	21.77	21.68	21.74	22.5
10	16QAM	1	0	21.78	21.72	21.67	
10	16QAM	1	25	22.03	22.01	21.99	
10	16QAM	1	49	21.67	21.57	21.63	21.5
10	16QAM	25	0	20.78	20.80	20.77	
10	16QAM	25	12	20.77	20.79	20.75	
10	16QAM	25	25	20.79	20.73	20.74	21.5
10	16QAM	50	0	20.77	20.72	20.66	
10	64QAM	1	0	20.65	20.54	20.67	
10	64QAM	1	25	21.07	21.06	20.99	21.5
10	64QAM	1	49	20.62	20.58	20.59	
10	64QAM	25	0	19.91	19.77	19.73	20.5
10	64QAM	25	12	19.81	19.83	19.74	
10	64QAM	25	25	19.79	19.72	19.80	
10	64QAM	50	0	19.77	19.70	19.72	Tune-up limit (dBm)
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.41	22.40	22.30	23.5
5	QPSK	1	12	22.81	22.80	22.76	
5	QPSK	1	24	22.45	22.36	22.43	
5	QPSK	12	0	21.83	21.81	21.72	22.5
5	QPSK	12	7	21.79	21.75	21.78	
5	QPSK	12	13	21.81	21.70	21.65	
5	QPSK	25	0	21.73	21.66	21.72	22.5
5	16QAM	1	0	21.70	21.69	21.69	
5	16QAM	1	12	22.00	21.96	21.95	
5	16QAM	1	24	21.72	21.59	21.55	21.5
5	16QAM	12	0	20.86	20.79	20.81	
5	16QAM	12	7	20.77	20.74	20.72	
5	16QAM	12	13	20.74	20.73	20.74	21.5
5	16QAM	25	0	20.73	20.69	20.72	
5	64QAM	1	0	20.68	20.57	20.63	
5	64QAM	1	12	21.06	21.04	21.03	21.5
5	64QAM	1	24	20.58	20.57	20.57	
5	64QAM	12	0	19.88	19.83	19.75	20.5
5	64QAM	12	7	19.79	19.82	19.73	
5	64QAM	12	13	19.81	19.70	19.74	
5	64QAM	25	0	19.84	19.69	19.72	Tune-up limit (dBm)
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.50	22.41	22.36	23.5
3	QPSK	1	8	22.79	22.77	22.76	
3	QPSK	1	14	22.40	22.32	22.39	
3	QPSK	8	0	21.86	21.75	21.79	22.5
3	QPSK	8	4	21.80	21.73	21.70	
3	QPSK	8	7	21.73	21.67	21.67	
3	QPSK	15	0	21.78	21.68	21.67	
3	16QAM	1	0	21.73	21.66	21.70	

3	16QAM	1	8	22.03	22.00	21.98	22.5
3	16QAM	1	14	21.72	21.59	21.54	
3	16QAM	8	0	20.85	20.72	20.83	21.5
3	16QAM	8	4	20.84	20.80	20.75	
3	16QAM	8	7	20.73	20.79	20.67	
3	16QAM	15	0	20.77	20.65	20.65	
3	64QAM	1	0	20.68	20.61	20.61	21.5
3	64QAM	1	8	21.04	21.01	20.98	
3	64QAM	1	14	20.58	20.56	20.53	
3	64QAM	8	0	19.87	19.85	19.77	20.5
3	64QAM	8	4	19.83	19.86	19.76	
3	64QAM	8	7	19.80	19.75	19.79	
3	64QAM	15	0	19.79	19.74	19.74	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.45	22.35	22.31	23.5
1.4	QPSK	1	3	22.78	22.80	22.78	
1.4	QPSK	1	5	22.36	22.33	22.41	
1.4	QPSK	3	0	22.66	22.56	22.55	
1.4	QPSK	3	1	22.60	22.53	22.53	
1.4	QPSK	3	3	22.56	22.51	22.50	
1.4	QPSK	6	0	21.79	21.62	21.67	22.5
1.4	16QAM	1	0	21.75	21.73	21.63	22.5
1.4	16QAM	1	3	22.03	21.95	21.94	
1.4	16QAM	1	5	21.67	21.62	21.57	
1.4	16QAM	3	0	21.58	21.55	21.54	
1.4	16QAM	3	1	21.62	21.58	21.48	
1.4	16QAM	3	3	21.58	21.57	21.47	
1.4	16QAM	6	0	20.75	20.65	20.64	21.5
1.4	64QAM	1	0	20.62	20.52	20.62	21.5
1.4	64QAM	1	3	21.00	21.03	20.97	
1.4	64QAM	1	5	20.59	20.54	20.50	
1.4	64QAM	3	0	20.68	20.60	20.60	
1.4	64QAM	3	1	20.63	20.66	20.59	
1.4	64QAM	3	3	20.65	20.56	20.55	
1.4	64QAM	6	0	19.81	19.68	19.72	20.5

Band 4 (AWS Band) (dBm)							
Part 271 (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.55	22.58	22.54	23.5
20	QPSK	1	49	22.86	22.88	22.85	
20	QPSK	1	99	22.39	22.47	22.40	
20	QPSK	50	0	21.84	21.92	21.91	22.5
20	QPSK	50	24	21.85	21.87	21.79	
20	QPSK	50	50	21.77	21.85	21.84	
20	QPSK	100	0	21.78	21.88	21.85	22.5
20	16QAM	1	0	21.75	21.83	21.78	
20	16QAM	1	49	22.17	22.18	22.14	
20	16QAM	1	99	21.72	21.77	21.74	21.5
20	16QAM	50	0	20.89	20.94	20.90	
20	16QAM	50	24	20.84	20.92	20.88	
20	16QAM	50	50	20.88	20.90	20.85	21.5
20	16QAM	100	0	20.82	20.87	20.79	
20	64QAM	1	0	20.76	20.79	20.74	
20	64QAM	1	49	21.06	21.11	21.04	21.5
20	64QAM	1	99	20.65	20.73	20.68	
20	64QAM	50	0	19.90	20.00	19.91	20.5
20	64QAM	50	24	19.83	19.93	19.83	
20	64QAM	50	50	19.85	19.95	19.85	
20	64QAM	100	0	19.83	19.93	19.84	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.50	22.55	22.46	23.5
15	QPSK	1	37	22.80	22.78	22.80	
15	QPSK	1	74	22.29	22.42	22.35	
15	QPSK	36	0	21.79	21.87	21.83	22.5
15	QPSK	36	20	21.77	21.84	21.76	
15	QPSK	36	39	21.71	21.75	21.80	
15	QPSK	75	0	21.75	21.86	21.76	22.5
15	16QAM	1	0	21.65	21.75	21.77	
15	16QAM	1	37	22.07	22.17	22.11	
15	16QAM	1	74	21.62	21.68	21.70	21.5
15	16QAM	36	0	20.85	20.92	20.86	
15	16QAM	36	20	20.81	20.82	20.82	
15	16QAM	36	39	20.83	20.84	20.79	21.5
15	16QAM	75	0	20.75	20.77	20.76	
15	64QAM	1	0	20.70	20.72	20.64	
15	64QAM	1	37	21.04	21.05	21.03	21.5
15	64QAM	1	74	20.58	20.72	20.58	
15	64QAM	36	0	19.84	19.96	19.85	20.5
15	64QAM	36	20	19.81	19.91	19.73	
15	64QAM	36	39	19.84	19.94	19.78	
15	64QAM	75	0	19.74	19.87	19.74	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	

10	QPSK	1	0	22.51	22.52	22.52	23.5
10	QPSK	1	25	22.85	22.83	22.83	
10	QPSK	1	49	22.34	22.37	22.34	
10	QPSK	25	0	21.79	21.88	21.85	22.5
10	QPSK	25	12	21.83	21.83	21.77	
10	QPSK	25	25	21.73	21.82	21.81	
10	QPSK	50	0	21.73	21.78	21.81	22.5
10	16QAM	1	0	21.72	21.78	21.70	
10	16QAM	1	25	22.15	22.12	22.07	
10	16QAM	1	49	21.63	21.71	21.67	21.5
10	16QAM	25	0	20.83	20.87	20.80	
10	16QAM	25	12	20.82	20.85	20.81	
10	16QAM	25	25	20.86	20.83	20.81	21.5
10	16QAM	50	0	20.79	20.85	20.72	
10	64QAM	1	0	20.72	20.78	20.71	
10	64QAM	1	25	21.00	21.08	20.96	21.5
10	64QAM	1	49	20.61	20.69	20.63	
10	64QAM	25	0	19.83	19.91	19.90	
10	64QAM	25	12	19.82	19.90	19.76	20.5
10	64QAM	25	25	19.80	19.91	19.81	
10	64QAM	50	0	19.81	19.90	19.83	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.45	22.49	22.44	23.5
5	QPSK	1	12	22.80	22.82	22.80	
5	QPSK	1	24	22.35	22.44	22.34	
5	QPSK	12	0	21.80	21.84	21.84	22.5
5	QPSK	12	7	21.82	21.80	21.77	
5	QPSK	12	13	21.68	21.84	21.81	
5	QPSK	25	0	21.71	21.87	21.76	22.5
5	16QAM	1	0	21.65	21.79	21.70	
5	16QAM	1	12	22.13	22.09	22.13	
5	16QAM	1	24	21.69	21.76	21.73	21.5
5	16QAM	12	0	20.83	20.91	20.83	
5	16QAM	12	7	20.74	20.87	20.81	
5	16QAM	12	13	20.81	20.86	20.75	21.5
5	16QAM	25	0	20.74	20.80	20.70	
5	64QAM	1	0	20.69	20.69	20.65	
5	64QAM	1	12	20.96	21.09	21.03	21.5
5	64QAM	1	24	20.57	20.72	20.65	
5	64QAM	12	0	19.89	19.94	19.83	
5	64QAM	12	7	19.79	19.85	19.80	20.5
5	64QAM	12	13	19.76	19.85	19.81	
5	64QAM	25	0	19.78	19.83	19.81	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.45	22.50	22.49	23.5
3	QPSK	1	8	22.82	22.83	22.84	
3	QPSK	1	14	22.35	22.38	22.32	
3	QPSK	8	0	21.76	21.89	21.87	22.5
3	QPSK	8	4	21.78	21.86	21.72	
3	QPSK	8	7	21.76	21.81	21.79	
3	QPSK	15	0	21.76	21.80	21.75	22.5
3	16QAM	1	0	21.65	21.75	21.69	

3	16QAM	1	8	22.10	22.15	22.07	22.5
3	16QAM	1	14	21.64	21.74	21.65	
3	16QAM	8	0	20.81	20.84	20.89	21.5
3	16QAM	8	4	20.77	20.86	20.87	
3	16QAM	8	7	20.87	20.87	20.83	
3	16QAM	15	0	20.79	20.82	20.78	
3	64QAM	1	0	20.73	20.75	20.69	21.5
3	64QAM	1	8	21.04	21.01	21.03	
3	64QAM	1	14	20.61	20.71	20.60	
3	64QAM	8	0	19.89	19.92	19.84	20.5
3	64QAM	8	4	19.79	19.87	19.77	
3	64QAM	8	7	19.75	19.87	19.79	
3	64QAM	15	0	19.82	19.87	19.76	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.54	22.49	22.52	23.5
1.4	QPSK	1	3	22.79	22.78	22.75	
1.4	QPSK	1	5	22.38	22.43	22.37	
1.4	QPSK	3	0	22.63	22.69	22.61	
1.4	QPSK	3	1	22.58	22.65	22.52	
1.4	QPSK	3	3	22.50	22.58	22.57	
1.4	QPSK	6	0	21.74	21.78	21.75	22.5
1.4	16QAM	1	0	21.72	21.82	21.77	22.5
1.4	16QAM	1	3	22.16	22.17	22.13	
1.4	16QAM	1	5	21.67	21.72	21.64	
1.4	16QAM	3	0	21.66	21.73	21.61	
1.4	16QAM	3	1	21.55	21.70	21.65	
1.4	16QAM	3	3	21.58	21.64	21.56	
1.4	16QAM	6	0	20.73	20.78	20.73	21.5
1.4	64QAM	1	0	20.68	20.73	20.66	21.5
1.4	64QAM	1	3	20.99	21.03	21.02	
1.4	64QAM	1	5	20.59	20.69	20.63	
1.4	64QAM	3	0	20.62	20.76	20.66	
1.4	64QAM	3	1	20.60	20.63	20.57	
1.4	64QAM	3	3	20.62	20.70	20.59	
1.4	64QAM	6	0	19.79	19.85	19.83	20.5

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.88	22.92	22.85	24
10	QPSK	1	25	23.12	23.15	23.08	
10	QPSK	1	49	22.83	22.87	22.81	
10	QPSK	25	0	22.04	22.05	21.96	23
10	QPSK	25	12	21.98	22.02	21.94	
10	QPSK	25	25	21.95	22.00	21.98	
10	QPSK	50	0	21.95	22.01	21.97	23
10	16QAM	1	0	22.22	22.27	22.20	
10	16QAM	1	25	22.14	22.23	22.17	
10	16QAM	1	49	22.08	22.13	22.04	22
10	16QAM	25	0	20.95	21.02	20.97	
10	16QAM	25	12	20.97	21.00	20.99	
10	16QAM	25	25	20.89	20.97	20.90	22
10	16QAM	50	0	20.96	20.99	20.96	
10	64QAM	1	0	21.13	21.17	21.10	
10	64QAM	1	25	21.15	21.25	21.19	22
10	64QAM	1	49	21.03	21.08	21.07	
10	64QAM	25	0	19.94	20.04	19.96	21
10	64QAM	25	12	19.96	20.01	19.97	
10	64QAM	25	25	19.92	20.00	19.94	
10	64QAM	50	0	19.96	20.03	19.97	Tune-up limit (dBm)
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.83	22.84	22.80	24
5	QPSK	1	12	23.04	23.06	23.07	
5	QPSK	1	24	22.82	22.78	22.77	
5	QPSK	12	0	21.94	22.03	21.93	23
5	QPSK	12	7	21.89	21.94	21.92	
5	QPSK	12	13	21.85	21.97	21.92	
5	QPSK	25	0	21.89	21.94	21.94	23
5	16QAM	1	0	22.14	22.17	22.18	
5	16QAM	1	12	22.07	22.19	22.13	
5	16QAM	1	24	22.03	22.12	22.02	22
5	16QAM	12	0	20.88	20.93	20.94	
5	16QAM	12	7	20.93	20.90	20.98	
5	16QAM	12	13	20.84	20.88	20.89	22
5	16QAM	25	0	20.87	20.92	20.86	
5	64QAM	1	0	21.10	21.15	21.07	
5	64QAM	1	12	21.09	21.22	21.17	22
5	64QAM	1	24	21.01	21.07	21.04	
5	64QAM	12	0	19.84	20.01	19.94	21
5	64QAM	12	7	19.89	19.97	19.95	
5	64QAM	12	13	19.82	19.99	19.88	
5	64QAM	25	0	19.93	20.01	19.89	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	

3	QPSK	1	0	22.84	22.86	22.84	24
3	QPSK	1	8	23.02	23.11	23.07	
3	QPSK	1	14	22.79	22.77	22.71	
3	QPSK	8	0	21.96	22.02	21.95	23
3	QPSK	8	4	21.88	21.92	21.87	
3	QPSK	8	7	21.85	21.96	21.96	
3	QPSK	15	0	21.87	21.97	21.88	
3	16QAM	1	0	22.12	22.18	22.17	23
3	16QAM	1	8	22.06	22.19	22.16	
3	16QAM	1	14	22.03	22.06	22.01	
3	16QAM	8	0	20.94	21.01	20.92	22
3	16QAM	8	4	20.91	20.94	20.96	
3	16QAM	8	7	20.82	20.92	20.88	
3	16QAM	15	0	20.90	20.93	20.86	
3	64QAM	1	0	21.10	21.12	21.05	22
3	64QAM	1	8	21.11	21.21	21.09	
3	64QAM	1	14	21.01	20.99	21.04	
3	64QAM	8	0	19.85	19.96	19.93	21
3	64QAM	8	4	19.95	19.91	19.87	
3	64QAM	8	7	19.88	19.93	19.88	
3	64QAM	15	0	19.89	20.01	19.91	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.79	22.91	22.76	24
1.4	QPSK	1	3	23.11	23.05	23.05	
1.4	QPSK	1	5	22.82	22.80	22.78	
1.4	QPSK	3	0	22.79	22.81	22.72	
1.4	QPSK	3	1	22.73	22.75	22.64	
1.4	QPSK	3	3	22.69	22.76	22.74	
1.4	QPSK	6	0	21.90	21.91	21.93	23
1.4	16QAM	1	0	22.13	22.23	22.14	23
1.4	16QAM	1	3	22.10	22.17	22.09	
1.4	16QAM	1	5	22.04	22.06	21.94	
1.4	16QAM	3	0	21.66	21.81	21.75	
1.4	16QAM	3	1	21.68	21.76	21.73	
1.4	16QAM	3	3	21.68	21.68	21.67	
1.4	16QAM	6	0	20.87	20.98	20.87	22
1.4	64QAM	1	0	21.05	21.09	21.07	22
1.4	64QAM	1	3	21.07	21.23	21.15	
1.4	64QAM	1	5	21.00	21.02	21.01	
1.4	64QAM	3	0	20.65	20.78	20.74	
1.4	64QAM	3	1	20.73	20.72	20.68	
1.4	64QAM	3	3	20.70	20.71	20.73	
1.4	64QAM	6	0	19.86	19.99	19.94	21

Band 7 (2600MHz Band) (dBm)

Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.64	22.77	22.72	24
20	QPSK	1	49	22.89	23.04	23.02	
20	QPSK	1	99	22.76	22.77	22.68	
20	QPSK	50	0	22.09	22.11	22.04	23
20	QPSK	50	24	21.99	22.08	22.05	
20	QPSK	50	50	22.03	22.05	21.99	
20	QPSK	100	0	21.98	22.06	22.04	
20	16QAM	1	0	21.80	21.88	21.86	23
20	16QAM	1	49	22.22	22.29	22.25	
20	16QAM	1	99	21.92	21.95	21.90	
20	16QAM	50	0	21.07	21.12	21.09	22
20	16QAM	50	24	20.95	21.04	20.97	
20	16QAM	50	50	20.98	21.08	21.02	
20	16QAM	100	0	21.04	21.07	21.00	
20	64QAM	1	0	20.78	20.85	20.79	22
20	64QAM	1	49	21.21	21.26	21.16	
20	64QAM	1	99	20.87	20.91	20.89	
20	64QAM	50	0	20.07	20.12	20.10	21
20	64QAM	50	24	20.08	20.09	20.01	
20	64QAM	50	50	19.99	20.04	19.97	
20	64QAM	100	0	20.00	20.10	20.03	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.57	22.73	22.64	24
15	QPSK	1	37	22.85	22.94	22.99	
15	QPSK	1	74	22.74	22.70	22.64	
15	QPSK	36	0	22.05	22.04	22.03	23
15	QPSK	36	20	21.93	22.05	22.03	
15	QPSK	36	39	22.00	21.98	21.98	
15	QPSK	75	0	21.93	22.04	21.99	
15	16QAM	1	0	21.76	21.83	21.84	23
15	16QAM	1	37	22.16	22.19	22.15	
15	16QAM	1	74	21.87	21.92	21.88	
15	16QAM	36	0	21.03	21.11	21.04	22
15	16QAM	36	20	20.87	20.95	20.89	
15	16QAM	36	39	20.92	21.06	21.01	
15	16QAM	75	0	21.01	21.04	20.94	
15	64QAM	1	0	20.75	20.81	20.71	22
15	64QAM	1	37	21.19	21.23	21.08	
15	64QAM	1	74	20.81	20.85	20.87	
15	64QAM	36	0	20.00	20.09	20.07	21
15	64QAM	36	20	20.04	20.02	19.95	
15	64QAM	36	39	19.97	20.00	19.90	
15	64QAM	75	0	19.92	20.08	19.98	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	

10	QPSK	1	0	22.57	22.70	22.67	24
10	QPSK	1	25	22.86	23.01	22.93	
10	QPSK	1	49	22.75	22.71	22.61	
10	QPSK	25	0	22.07	22.01	21.99	23
10	QPSK	25	12	21.98	22.07	21.97	
10	QPSK	25	25	22.02	21.99	21.94	
10	QPSK	50	0	21.97	21.96	22.01	
10	16QAM	1	0	21.79	21.85	21.76	23
10	16QAM	1	25	22.19	22.25	22.21	
10	16QAM	1	49	21.83	21.91	21.84	
10	16QAM	25	0	21.02	21.09	20.99	22
10	16QAM	25	12	20.85	21.03	20.91	
10	16QAM	25	25	20.97	21.03	20.96	
10	16QAM	50	0	20.97	20.97	20.98	
10	64QAM	1	0	20.77	20.80	20.75	22
10	64QAM	1	25	21.17	21.20	21.13	
10	64QAM	1	49	20.82	20.90	20.85	
10	64QAM	25	0	20.02	20.04	20.05	21
10	64QAM	25	12	20.07	20.04	20.00	
10	64QAM	25	25	19.89	19.97	19.90	
10	64QAM	50	0	19.90	20.08	20.00	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.63	22.68	22.67	24
5	QPSK	1	12	22.83	23.01	23.00	
5	QPSK	1	24	22.75	22.69	22.61	
5	QPSK	12	0	22.02	22.10	22.02	23
5	QPSK	12	7	21.95	22.07	22.01	
5	QPSK	12	13	21.99	21.99	21.90	
5	QPSK	25	0	21.92	22.00	22.01	
5	16QAM	1	0	21.78	21.85	21.76	23
5	16QAM	1	12	22.18	22.22	22.18	
5	16QAM	1	24	21.85	21.90	21.80	
5	16QAM	12	0	20.98	21.06	21.08	22
5	16QAM	12	7	20.91	20.95	20.94	
5	16QAM	12	13	20.94	21.01	20.92	
5	16QAM	25	0	21.01	21.03	20.92	
5	64QAM	1	0	20.71	20.77	20.71	22
5	64QAM	1	12	21.11	21.22	21.11	
5	64QAM	1	24	20.85	20.83	20.84	
5	64QAM	12	0	19.98	20.11	20.04	21
5	64QAM	12	7	20.03	20.04	19.97	
5	64QAM	12	13	19.92	19.95	19.91	
5	64QAM	25	0	19.99	20.02	19.99	

Band 12 (700MHz Low Band) (dBm)

Part 27E(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	22.92	22.95	22.93	24
10	QPSK	1	25	23.13	23.15	23.11	
10	QPSK	1	49	22.99	23.03	22.94	
10	QPSK	25	0	22.17	22.24	22.15	23
10	QPSK	25	12	22.17	22.18	22.11	
10	QPSK	25	25	22.16	22.20	22.16	
10	QPSK	50	0	22.16	22.22	22.12	23
10	16QAM	1	0	22.18	22.25	22.21	
10	16QAM	1	25	22.47	22.55	22.45	
10	16QAM	1	49	22.26	22.36	22.28	22
10	16QAM	25	0	21.19	21.28	21.20	
10	16QAM	25	12	21.09	21.18	21.16	
10	16QAM	25	25	21.19	21.23	21.17	22
10	16QAM	50	0	21.25	21.26	21.23	
10	64QAM	1	0	21.08	21.11	21.05	
10	64QAM	1	25	21.34	21.40	21.36	22
10	64QAM	1	49	21.22	21.24	21.22	
10	64QAM	25	0	20.23	20.29	20.20	21
10	64QAM	25	12	20.14	20.16	20.12	
10	64QAM	25	25	20.16	20.25	20.16	
10	64QAM	50	0	20.21	20.27	20.24	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.88	22.90	22.85	24
5	QPSK	1	12	23.12	23.07	23.08	
5	QPSK	1	24	22.90	22.97	22.88	
5	QPSK	12	0	22.15	22.19	22.07	23
5	QPSK	12	7	22.07	22.10	22.06	
5	QPSK	12	13	22.06	22.11	22.07	
5	QPSK	25	0	22.15	22.17	22.10	23
5	16QAM	1	0	22.12	22.19	22.17	
5	16QAM	1	12	22.38	22.51	22.39	
5	16QAM	1	24	22.23	22.30	22.26	22
5	16QAM	12	0	21.10	21.18	21.10	
5	16QAM	12	7	21.06	21.16	21.09	
5	16QAM	12	13	21.15	21.18	21.16	22
5	16QAM	25	0	21.24	21.22	21.13	
5	64QAM	1	0	21.02	21.04	21.01	
5	64QAM	1	12	21.30	21.38	21.31	22
5	64QAM	1	24	21.17	21.23	21.19	
5	64QAM	12	0	20.17	20.22	20.15	21
5	64QAM	12	7	20.05	20.11	20.02	
5	64QAM	12	13	20.15	20.18	20.12	
5	64QAM	25	0	20.19	20.25	20.20	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	

3	QPSK	1	0	22.88	22.89	22.89	24
3	QPSK	1	8	23.05	23.12	23.06	
3	QPSK	1	14	22.94	22.94	22.84	
3	QPSK	8	0	22.09	22.20	22.06	23
3	QPSK	8	4	22.10	22.09	22.02	
3	QPSK	8	7	22.11	22.15	22.09	
3	QPSK	15	0	22.08	22.13	22.05	
3	16QAM	1	0	22.15	22.23	22.17	23
3	16QAM	1	8	22.37	22.46	22.41	
3	16QAM	1	14	22.18	22.29	22.20	
3	16QAM	8	0	21.09	21.23	21.11	22
3	16QAM	8	4	21.01	21.11	21.07	
3	16QAM	8	7	21.12	21.18	21.09	
3	16QAM	15	0	21.21	21.18	21.21	
3	64QAM	1	0	21.02	21.05	20.96	22
3	64QAM	1	8	21.31	21.33	21.34	
3	64QAM	1	14	21.19	21.15	21.12	
3	64QAM	8	0	20.16	20.21	20.12	21
3	64QAM	8	4	20.07	20.15	20.06	
3	64QAM	8	7	20.10	20.21	20.06	
3	64QAM	15	0	20.19	20.17	20.14	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.84	22.94	22.87	24
1.4	QPSK	1	3	23.09	23.10	23.08	
1.4	QPSK	1	5	22.98	22.95	22.87	
1.4	QPSK	3	0	22.92	23.00	22.91	
1.4	QPSK	3	1	22.88	22.89	22.82	
1.4	QPSK	3	3	22.90	22.95	22.90	
1.4	QPSK	6	0	22.10	22.14	22.06	23
1.4	16QAM	1	0	22.09	22.24	22.14	23
1.4	16QAM	1	3	22.43	22.50	22.40	
1.4	16QAM	1	5	22.21	22.35	22.25	
1.4	16QAM	3	0	21.93	22.01	21.90	
1.4	16QAM	3	1	21.83	21.88	21.90	
1.4	16QAM	3	3	21.93	21.96	21.93	
1.4	16QAM	6	0	21.17	21.23	21.20	22
1.4	64QAM	1	0	21.06	21.07	21.02	22
1.4	64QAM	1	3	21.33	21.35	21.29	
1.4	64QAM	1	5	21.21	21.15	21.16	
1.4	64QAM	3	0	20.93	21.06	20.97	
1.4	64QAM	3	1	20.92	20.94	20.87	
1.4	64QAM	3	3	20.92	20.99	20.87	
1.4	64QAM	6	0	20.20	20.24	20.17	21

Band 17 (700MHz Band) (dBm)

Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.91	22.93	22.90	24
10	QPSK	1	25	23.15	23.18	23.14	
10	QPSK	1	49	23.03	23.05	23.02	
10	QPSK	25	0	22.12	22.20	22.11	23
10	QPSK	25	12	22.07	22.15	22.13	
10	QPSK	25	25	22.13	22.16	22.06	
10	QPSK	50	0	22.10	22.18	22.15	23
10	16QAM	1	0	22.19	22.25	22.19	
10	16QAM	1	25	22.46	22.51	22.45	
10	16QAM	1	49	22.21	22.30	22.23	22
10	16QAM	25	0	21.09	21.18	21.09	
10	16QAM	25	12	21.13	21.15	21.13	
10	16QAM	25	25	21.05	21.12	21.11	22
10	16QAM	50	0	21.09	21.14	21.10	
10	64QAM	1	0	21.06	21.08	21.00	
10	64QAM	1	25	21.33	21.42	21.39	22
10	64QAM	1	49	21.17	21.19	21.09	
10	64QAM	25	0	20.19	20.22	20.16	21
10	64QAM	25	12	20.11	20.17	20.11	
10	64QAM	25	25	20.19	20.20	20.16	
10	64QAM	50	0	20.19	20.21	20.14	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.88	22.88	22.82	24
5	QPSK	1	12	23.08	23.13	23.04	
5	QPSK	1	24	22.95	22.96	22.95	
5	QPSK	12	0	22.02	22.18	22.03	23
5	QPSK	12	7	21.99	22.09	22.12	
5	QPSK	12	13	22.12	22.14	22.02	
5	QPSK	25	0	22.05	22.15	22.05	23
5	16QAM	1	0	22.16	22.18	22.16	
5	16QAM	1	12	22.36	22.50	22.43	
5	16QAM	1	24	22.12	22.21	22.14	22
5	16QAM	12	0	21.02	21.13	21.07	
5	16QAM	12	7	21.07	21.07	21.09	
5	16QAM	12	13	21.00	21.08	21.02	22
5	16QAM	25	0	21.00	21.07	21.00	
5	64QAM	1	0	20.99	21.05	20.92	
5	64QAM	1	12	21.26	21.35	21.31	22
5	64QAM	1	24	21.15	21.12	20.99	
5	64QAM	12	0	20.12	20.20	20.09	21
5	64QAM	12	7	20.01	20.16	20.06	
5	64QAM	12	13	20.18	20.15	20.07	
5	64QAM	25	0	20.15	20.14	20.08	

Band 66 (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.74	22.81	22.77	24
20	QPSK	1	49	23.15	23.20	23.18	
20	QPSK	1	99	22.73	22.77	22.74	
20	QPSK	50	0	22.19	22.22	22.19	23
20	QPSK	50	24	22.07	22.15	22.08	
20	QPSK	50	50	22.09	22.12	22.03	
20	QPSK	100	0	22.12	22.17	22.07	
20	16QAM	1	0	21.97	22.02	21.93	23
20	16QAM	1	49	22.47	22.49	22.43	
20	16QAM	1	99	22.01	22.05	21.99	
20	16QAM	50	0	21.16	21.22	21.14	22
20	16QAM	50	24	21.11	21.14	21.12	
20	16QAM	50	50	21.12	21.13	21.08	
20	16QAM	100	0	21.11	21.15	21.07	
20	64QAM	1	0	21.00	21.01	20.92	22
20	64QAM	1	49	21.39	21.42	21.34	
20	64QAM	1	99	20.91	20.96	20.92	
20	64QAM	50	0	20.15	20.21	20.12	21
20	64QAM	50	24	20.13	20.16	20.14	
20	64QAM	50	50	20.08	20.13	20.12	
20	64QAM	100	0	20.09	20.14	20.08	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.66	22.78	22.71	24
15	QPSK	1	37	23.09	23.11	23.15	
15	QPSK	1	74	22.68	22.71	22.71	
15	QPSK	36	0	22.12	22.21	22.15	23
15	QPSK	36	20	21.97	22.11	22.00	
15	QPSK	36	39	22.00	22.04	21.97	
15	QPSK	75	0	22.10	22.12	22.01	
15	16QAM	1	0	21.88	21.95	21.88	23
15	16QAM	1	37	22.40	22.43	22.42	
15	16QAM	1	74	22.00	22.03	21.96	
15	16QAM	36	0	21.10	21.18	21.13	22
15	16QAM	36	20	21.02	21.06	21.04	
15	16QAM	36	39	21.04	21.03	21.02	
15	16QAM	75	0	21.03	21.10	21.03	
15	64QAM	1	0	20.93	20.93	20.83	22
15	64QAM	1	37	21.29	21.32	21.33	
15	64QAM	1	74	20.84	20.93	20.87	
15	64QAM	36	0	20.05	20.16	20.02	21
15	64QAM	36	20	20.03	20.12	20.12	
15	64QAM	36	39	20.07	20.11	20.09	
15	64QAM	75	0	20.00	20.05	20.07	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	

10	QPSK	1	0	22.67	22.73	22.67	24
10	QPSK	1	25	23.12	23.14	23.12	
10	QPSK	1	49	22.64	22.70	22.67	
10	QPSK	25	0	22.13	22.18	22.11	23
10	QPSK	25	12	22.00	22.11	21.98	
10	QPSK	25	25	22.05	22.09	21.95	
10	QPSK	50	0	22.07	22.10	21.98	23
10	16QAM	1	0	21.93	21.92	21.87	
10	16QAM	1	25	22.42	22.43	22.36	
10	16QAM	1	49	21.98	22.03	21.92	22
10	16QAM	25	0	21.06	21.16	21.06	
10	16QAM	25	12	21.05	21.06	21.11	
10	16QAM	25	25	21.05	21.12	21.01	22
10	16QAM	50	0	21.01	21.10	21.03	
10	64QAM	1	0	20.98	20.98	20.82	
10	64QAM	1	25	21.31	21.33	21.25	22
10	64QAM	1	49	20.81	20.89	20.90	
10	64QAM	25	0	20.10	20.20	20.06	21
10	64QAM	25	12	20.11	20.09	20.07	
10	64QAM	25	25	20.01	20.12	20.08	
10	64QAM	50	0	20.08	20.13	20.03	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.70	22.73	22.76	24
5	QPSK	1	12	23.11	23.15	23.17	
5	QPSK	1	24	22.72	22.68	22.66	
5	QPSK	12	0	22.11	22.17	22.14	23
5	QPSK	12	7	21.98	22.10	22.05	
5	QPSK	12	13	22.05	22.04	21.99	
5	QPSK	25	0	22.11	22.13	22.04	23
5	16QAM	1	0	21.87	21.93	21.84	
5	16QAM	1	12	22.38	22.40	22.36	
5	16QAM	1	24	21.93	21.96	21.94	22
5	16QAM	12	0	21.08	21.12	21.11	
5	16QAM	12	7	21.02	21.06	21.06	
5	16QAM	12	13	21.06	21.04	21.02	22
5	16QAM	25	0	21.04	21.11	21.02	
5	64QAM	1	0	20.93	21.00	20.83	
5	64QAM	1	12	21.38	21.37	21.25	22
5	64QAM	1	24	20.82	20.93	20.86	
5	64QAM	12	0	20.10	20.11	20.07	21
5	64QAM	12	7	20.09	20.09	20.10	
5	64QAM	12	13	20.07	20.07	20.05	
5	64QAM	25	0	20.05	20.06	20.06	Tune-up limit (dBm)
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.68	22.80	22.68	24
3	QPSK	1	8	23.13	23.16	23.14	
3	QPSK	1	14	22.71	22.71	22.66	
3	QPSK	8	0	22.17	22.17	22.13	23
3	QPSK	8	4	22.02	22.09	22.03	
3	QPSK	8	7	22.06	22.05	21.95	
3	QPSK	15	0	22.10	22.14	21.98	
3	16QAM	1	0	21.89	22.01	21.88	

3	16QAM	1	8	22.43	22.40	22.41	23
3	16QAM	1	14	21.97	21.95	21.93	
3	16QAM	8	0	21.06	21.15	21.06	
3	16QAM	8	4	21.02	21.04	21.08	22
3	16QAM	8	7	21.03	21.10	21.03	
3	16QAM	15	0	21.06	21.10	21.00	
3	64QAM	1	0	20.96	20.96	20.84	22
3	64QAM	1	8	21.33	21.38	21.31	
3	64QAM	1	14	20.90	20.88	20.83	
3	64QAM	8	0	20.09	20.20	20.07	
3	64QAM	8	4	20.07	20.13	20.08	21
3	64QAM	8	7	19.98	20.09	20.07	
3	64QAM	15	0	20.00	20.12	20.01	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.70	22.73	22.69	
1.4	QPSK	1	3	23.08	23.18	23.12	
1.4	QPSK	1	5	22.71	22.71	22.67	24
1.4	QPSK	3	0	22.95	22.96	22.96	
1.4	QPSK	3	1	22.86	22.95	22.87	
1.4	QPSK	3	3	22.82	22.92	22.78	
1.4	QPSK	6	0	22.05	22.07	22.06	23
1.4	16QAM	1	0	21.93	21.97	21.84	
1.4	16QAM	1	3	22.40	22.42	22.33	23
1.4	16QAM	1	5	22.00	21.99	21.95	
1.4	16QAM	3	0	21.91	21.97	21.88	
1.4	16QAM	3	1	21.86	21.88	21.93	
1.4	16QAM	3	3	21.84	21.86	21.89	
1.4	16QAM	6	0	21.03	21.11	21.05	22
1.4	64QAM	1	0	20.91	20.92	20.86	
1.4	64QAM	1	3	21.34	21.39	21.26	22
1.4	64QAM	1	5	20.87	20.88	20.82	
1.4	64QAM	3	0	20.87	20.99	20.86	
1.4	64QAM	3	1	20.88	20.92	20.86	
1.4	64QAM	3	3	20.81	20.87	20.85	
1.4	64QAM	6	0	20.00	20.13	20.00	21

Band 71 (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	22.73	22.78	22.77	24
20	QPSK	1	49	23.25	23.30	23.28	
20	QPSK	1	99	23.15	23.17	23.14	
20	QPSK	50	0	22.24	22.30	22.23	23
20	QPSK	50	24	22.19	22.27	22.25	
20	QPSK	50	50	22.25	22.28	22.18	
20	QPSK	100	0	22.22	22.27	22.27	
20	16QAM	1	0	22.31	22.37	22.31	23
20	16QAM	1	49	22.58	22.63	22.57	
20	16QAM	1	99	22.33	22.42	22.35	
20	16QAM	50	0	21.21	21.30	21.21	22
20	16QAM	50	24	21.25	21.27	21.25	
20	16QAM	50	50	21.17	21.24	21.23	
20	16QAM	100	0	21.21	21.26	21.22	
20	64QAM	1	0	21.18	21.20	21.12	22
20	64QAM	1	49	21.45	21.54	21.51	
20	64QAM	1	99	21.29	21.31	21.21	
20	64QAM	50	0	20.31	20.34	20.28	21
20	64QAM	50	24	20.23	20.29	20.23	
20	64QAM	50	50	20.31	20.32	20.28	
20	64QAM	100	0	20.31	20.33	20.26	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.71	22.75	22.72	24
15	QPSK	1	37	23.23	23.26	23.19	
15	QPSK	1	74	23.05	23.15	23.12	
15	QPSK	36	0	22.15	22.24	22.19	23
15	QPSK	36	20	22.16	22.26	22.17	
15	QPSK	36	39	22.15	22.19	22.17	
15	QPSK	75	0	22.15	22.21	22.22	
15	16QAM	1	0	22.21	22.30	22.23	23
15	16QAM	1	37	22.50	22.55	22.55	
15	16QAM	1	74	22.24	22.35	22.27	
15	16QAM	36	0	21.19	21.26	21.12	22
15	16QAM	36	20	21.21	21.19	21.19	
15	16QAM	36	39	21.11	21.21	21.15	
15	16QAM	75	0	21.14	21.21	21.13	
15	64QAM	1	0	21.14	21.15	21.06	22
15	64QAM	1	37	21.43	21.46	21.48	
15	64QAM	1	74	21.24	21.26	21.11	
15	64QAM	36	0	20.30	20.31	20.27	21
15	64QAM	36	20	20.21	20.27	20.15	
15	64QAM	36	39	20.29	20.28	20.20	
15	64QAM	75	0	20.27	20.29	20.19	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	

10	QPSK	1	0	22.72	22.72	22.70	24
10	QPSK	1	25	23.23	23.26	23.19	
10	QPSK	1	49	23.06	23.15	23.06	
10	QPSK	25	0	22.19	22.23	22.17	23
10	QPSK	25	12	22.12	22.26	22.22	
10	QPSK	25	25	22.24	22.27	22.08	
10	QPSK	50	0	22.20	22.18	22.22	
10	16QAM	1	0	22.24	22.28	22.27	23
10	16QAM	1	25	22.53	22.62	22.48	
10	16QAM	1	49	22.25	22.32	22.28	
10	16QAM	25	0	21.13	21.26	21.20	22
10	16QAM	25	12	21.22	21.23	21.18	
10	16QAM	25	25	21.09	21.18	21.17	
10	16QAM	50	0	21.15	21.24	21.12	
10	64QAM	1	0	21.10	21.18	21.05	22
10	64QAM	1	25	21.41	21.49	21.49	
10	64QAM	1	49	21.21	21.30	21.19	
10	64QAM	25	0	20.24	20.33	20.18	21
10	64QAM	25	12	20.22	20.26	20.15	
10	64QAM	25	25	20.26	20.27	20.27	
10	64QAM	50	0	20.27	20.30	20.17	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.64	22.73	22.71	24
5	QPSK	1	12	23.22	23.22	23.23	
5	QPSK	1	24	23.06	23.14	23.09	
5	QPSK	12	0	22.17	22.20	22.16	23
5	QPSK	12	7	22.18	22.22	22.18	
5	QPSK	12	13	22.15	22.22	22.12	
5	QPSK	25	0	22.16	22.25	22.19	
5	16QAM	1	0	22.29	22.30	22.23	23
5	16QAM	1	12	22.52	22.62	22.54	
5	16QAM	1	24	22.30	22.40	22.27	
5	16QAM	12	0	21.16	21.23	21.15	22
5	16QAM	12	7	21.24	21.19	21.16	
5	16QAM	12	13	21.12	21.19	21.13	
5	16QAM	25	0	21.12	21.19	21.16	
5	64QAM	1	0	21.12	21.10	21.11	22
5	64QAM	1	12	21.41	21.48	21.45	
5	64QAM	1	24	21.26	21.30	21.14	
5	64QAM	12	0	20.23	20.33	20.20	21
5	64QAM	12	7	20.21	20.25	20.17	
5	64QAM	12	13	20.25	20.26	20.26	
5	64QAM	25	0	20.25	20.28	20.20	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1	802.11b 1Mbps	CH 1	2412	14.08	15.00	15.50	99.57
		CH 7	2442	14.29	15.00	15.50	
		CH 13	2472	13.99	15.00	15.50	
	802.11g 6Mbps	CH 1	2412	11.96	13.00	15.50	96.94
		CH 7	2442	12.09	13.00	15.50	
		CH 13	2472	11.76	13.00	15.50	
	802.11n-HT20 MCS0	CH 1	2412	11.78	13.00	15.50	96.73
		CH 7	2442	12.10	13.00	15.50	
		CH 13	2472	11.71	13.00	15.50	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	13.04	14.00	13.50	97.22
		CH 44	5220	12.98	14.00	13.50	
		CH 48	5240	12.79	13.50	13.50	
	802.11n-HT20 MCS0	CH 36	5180	12.53	13.50	13.50	97.01
		CH 44	5220	12.56	13.50	13.50	
		CH 48	5240	12.32	13.50	13.50	
	802.11n-HT40 MCS0	CH 38	5190	13.37	14.00	13.50	94.20
		CH 46	5230	13.21	14.00	13.50	
	802.11ac-VHT20 MCS0	CH 36	5180	12.55	13.50	13.50	97.04
		CH 44	5220	12.58	13.50	13.50	
		CH 48	5240	12.40	13.50	13.50	
	802.11ac-VHT40 MCS0	CH 38	5190	13.48	14.50	13.50	92.86
		CH 46	5230	13.16	14.00	13.50	
	802.11ac-VHT80 MCS0	CH 42	5210	12.77	13.50	13.50	89.19

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5260	12.43	13.50	13.00	97.20
		CH 60	5300	12.47	13.50	13.00	
		CH 64	5320	11.91	13.00	13.00	
	802.11n-HT20 MCS0	CH 52	5260	11.91	13.00	13.00	97.01
		CH 60	5300	11.83	13.00	13.00	
		CH 64	5320	11.36	12.00	13.00	
	802.11n-HT40 MCS0	CH 54	5270	12.59	13.50	13.00	94.20
		CH 62	5310	12.44	13.50	13.00	
	802.11ac-VHT20 MCS0	CH 52	5260	11.79	12.50	13.00	97.04
		CH 60	5300	11.79	12.50	13.00	
		CH 64	5320	11.42	12.50	13.00	
	802.11ac-VHT40 MCS0	CH 54	5270	12.08	13.00	13.00	92.86
		CH 62	5310	11.98	13.00	13.00	
	802.11ac-VHT80 MCS0	CH 58	5290	12.02	13.00	13.00	89.19

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	13.63	14.50	14.00	97.22
		CH 157	5785	13.21	14.00	14.00	
		CH 165	5825	12.72	13.50	14.00	
	802.11n-HT20 MCS0	CH 149	5745	13.02	14.00	14.00	97.01
		CH 157	5785	12.55	13.50	14.00	
		CH 165	5825	12.75	13.50	14.00	
	802.11n-HT40 MCS0	CH 151	5755	13.97	15.00	14.00	94.20
		CH 159	5795	13.92	15.00	14.00	
	802.11ac-VHT20 MCS0	CH 149	5745	13.03	14.00	14.00	97.06
		CH 157	5785	12.84	14.00	14.00	
		CH 165	5825	12.82	14.00	14.00	
	802.11ac-VHT40 MCS0	CH 151	5755	13.70	14.50	14.00	94.20
		CH 159	5795	13.41	14.50	14.00	
	802.11ac-VHT80 MCS0	CH 155	5775	13.33	14.00	14.00	88.89

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	8.57	9.50	6.42	7.50	6.35	75.00
	CH 39	2441	4.51	5.50	1.27	2.00	1.43	2.50
	CH 78	2480	8.39	9.50	6.32	7.50	6.64	7.50
Duty Cycle %			76.91		77.01		77.07	

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
LE	CH 00	2402	-5.63	-4.50	-8.26	-7.00
	CH 19	2440	-5.18	-4.00	-8.02	-7.00
	CH 39	2480	-5.26	-4.00	-8.06	-7.00
Duty Cycle %			61.29		31.75	