



REPORT No.: SZ24020075S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

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

Full Power

GSM850		Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)			Tune-up	Ch Delta > 0.5
TX Channel		128	189	251	Limit	128	189	251	Limit	
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot		32.74	32.88	32.82	33.50	23.74	23.88	23.82	24.50	0.25
GPRS 1 Tx slot		32.63	32.79	32.71	33.50	23.63	23.79	23.71	24.50	
GPRS 2 Tx slots		32.11	32.14	32.02	32.50	26.11	26.14	26.02	26.50	0.12
GPRS 3 Tx slots		30.47	30.54	30.51	31.00	26.21	26.28	26.25	26.74	0.09
GPRS 4 Tx slots		29.31	29.36	29.27	30.00	26.31	26.36	26.27	27.00	
EDGE 1 Tx slot		27.61	27.64	27.57	28.00	18.61	18.64	18.57	19.00	0.07
EDGE 2 Tx slots		26.44	26.52	26.48	27.00	20.44	20.52	20.48	21.00	0.08
EDGE 3 Tx slots		24.61	24.63	24.57	25.00	20.35	20.37	20.31	20.74	0.06
EDGE 4 Tx slots		23.26	23.44	23.39	24.00	20.26	20.44	20.39	21.00	0.18
Mode		Max.			32.88	Max.			26.36	
Attenuator		Cable Loss : 0.5								

GSM1900		Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)			Tune-up	Ch Delta > 0.5
TX Channel		512	661	810	Limit (dBm)	512	661	810	Limit (dBm)	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot		30.02	30.11	30.04	30.50	21.02	21.11	21.04	21.50	0.17
GPRS 1 Tx slot		29.94	30.09	30.02	30.50	20.94	21.09	21.02	21.50	
GPRS 2 Tx slots		29.44	29.53	29.47	29.80	23.44	23.53	23.47	23.80	0.09
GPRS 3 Tx slots		27.82	27.86	27.74	28.00	23.56	23.60	23.48	23.74	0.12
GPRS 4 Tx slots		26.76	26.77	26.72	27.00	23.76	23.77	23.72	24.00	0.05
EDGE 1 Tx slot		26.78	26.79	26.76	27.00	17.78	17.79	17.76	18.00	0.03
EDGE 2 Tx slots		25.19	25.21	25.16	26.00	19.19	19.21	19.16	20.00	0.05
EDGE 3 Tx slots		23.53	23.65	23.46	24.50	19.27	19.39	19.20	20.24	0.19
EDGE 4 Tx slots		22.28	22.32	22.23	23.50	19.28	19.32	19.23	20.50	0.09
Mode		Max.			30.11	Max.			23.77	
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			9252	9400	9538	1312	1413	1513		4132	4182	4233	
Rx Channel			9662	9800	9938	1537	1638	1738		4357	4407	4458	
Frequency (MHz)			1852.4	1860	1907.6	1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99 RMC 12.2kbps			23.44	23.49	23.42	24.00	23.41	23.45	23.38	24.00	23.46	23.52	23.49
3GPP Rel 5 HSDPA Subtest-1			22.30	22.29	22.24	23.00	22.19	22.22	22.33	23.00	22.10	22.05	22.06
3GPP Rel 5 HSDPA Subtest-2			22.32	22.26	22.30	23.00	22.16	22.20	22.22	23.00	22.09	22.02	22.05
3GPP Rel 5 HSDPA Subtest-3			21.84	21.80	21.76	22.50	21.75	21.70	21.74	22.50	21.58	21.54	21.57
3GPP Rel 5 HSDPA Subtest-4			21.83	21.76	21.75	22.50	21.67	21.69	21.72	22.50	21.54	21.52	21.54
3GPP Rel 6 HSUPA Subtest-1			21.85	21.78	21.75	22.50	21.72	21.73	21.75	22.50	21.57	21.58	21.60
3GPP Rel 6 HSUPA Subtest-2			22.32	22.30	22.25	23.00	22.23	22.48	22.31	23.00	22.03	22.07	22.11
3GPP Rel 6 HSUPA Subtest-3			21.34	21.31	21.31	22.50	21.26	21.24	21.31	22.50	21.08	21.10	21.09
3GPP Rel 6 HSUPA Subtest-4			22.36	22.30	22.28	23.00	22.18	22.26	22.29	23.00	22.12	22.07	22.10
3GPP Rel 6 HSUPA Subtest-5			21.32	21.25	21.29	22.00	21.21	21.23	21.27	22.50	20.16	20.14	20.23
3GPP Rel 7 HSPA+ (16QAM) Subtest-1			19.94	19.89	19.91	20.50	19.79	19.84	19.81	20.50	19.68	19.65	19.67
Attenuator			Cable Loss		0.8	Cable Loss		0.8	Cable Loss		0.5		
Mode			Max.		23.49	Max.		23.45	Max.		23.52		

Band 2 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	Tune-up limit (dBm)
Frequency (MHz)				1880	1890	1900	
20	QPSK	1	0	22.71	22.85	22.88	24
20	QPSK	1	49	22.88	23.03	22.95	
20	QPSK	1	99	22.59	22.58	22.80	
20	QPSK	50	0	22.08	22.17	22.13	23
20	QPSK	50	24	22.00	22.02	21.97	
20	QPSK	50	50	21.93	21.97	21.92	
20	QPSK	100	0	21.85	21.94	21.84	23
20	16QAM	1	0	21.97	22.04	21.95	
20	16QAM	1	49	22.23	22.24	22.19	
20	16QAM	1	99	22.02	22.03	21.95	22
20	16QAM	50	0	20.92	20.94	20.93	
20	16QAM	50	24	20.85	20.91	20.84	
20	16QAM	50	50	20.91	20.92	20.82	22
20	16QAM	100	0	20.84	20.93	20.91	
20	64QAM	1	0	20.92	20.99	20.95	
20	64QAM	1	49	21.08	21.15	21.12	22
20	64QAM	1	99	20.69	20.78	20.72	
20	64QAM	50	0	19.95	19.99	19.98	
20	64QAM	50	24	19.99	20.02	19.94	21
20	64QAM	50	50	19.87	19.96	19.94	
20	64QAM	100	0	19.90	20.00	19.92	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1890	1902.5	
15	QPSK	1	0	22.62	22.76	22.59	24
15	QPSK	1	37	22.79	22.94	22.86	
15	QPSK	1	74	22.50	22.49	22.51	
15	QPSK	36	0	21.99	22.08	22.04	23
15	QPSK	36	20	21.91	21.93	21.88	
15	QPSK	36	39	21.84	21.88	21.83	
15	QPSK	75	0	21.76	21.85	21.75	23
15	16QAM	1	0	21.88	21.95	21.86	
15	16QAM	1	37	22.14	22.15	22.10	
15	16QAM	1	74	21.93	21.94	21.86	22
15	16QAM	36	0	20.83	20.85	20.84	
15	16QAM	36	20	20.76	20.82	20.75	
15	16QAM	36	39	20.82	20.83	20.73	22
15	16QAM	75	0	20.75	20.84	20.82	
15	64QAM	1	0	20.83	20.90	20.86	
15	64QAM	1	37	20.99	21.06	21.03	22
15	64QAM	1	74	20.80	20.69	20.63	
15	64QAM	36	0	19.86	19.90	19.89	
15	64QAM	36	20	19.90	19.93	19.85	21
15	64QAM	36	39	19.78	19.87	19.85	
15	64QAM	75	0	19.81	19.91	19.93	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.53	22.67	22.50	24
10	QPSK	1	25	22.70	22.85	22.77	
10	QPSK	1	49	22.41	22.40	22.42	
10	QPSK	25	0	21.90	21.99	21.95	23
10	QPSK	25	12	21.82	21.84	21.79	
10	QPSK	25	25	21.75	21.79	21.74	
10	QPSK	50	0	21.67	21.76	21.66	23
10	16QAM	1	0	21.79	21.86	21.77	
10	16QAM	1	25	22.05	22.06	22.01	
10	16QAM	1	49	21.84	21.85	21.77	22
10	16QAM	25	0	20.74	20.76	20.75	
10	16QAM	25	12	20.67	20.73	20.66	
10	16QAM	25	25	20.73	20.74	20.64	22
10	16QAM	50	0	20.66	20.75	20.73	
10	64QAM	1	0	20.74	20.81	20.77	
10	64QAM	1	25	20.90	20.97	20.94	22
10	64QAM	1	49	20.51	20.60	20.54	
10	64QAM	25	0	19.77	19.81	19.80	
10	64QAM	25	12	19.81	19.84	19.76	21
10	64QAM	25	25	19.69	19.78	19.76	
10	64QAM	50	0	19.72	19.82	19.74	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.35	22.49	22.32	23.5
5	QPSK	1	12	22.52	22.67	22.59	
5	QPSK	1	24	22.23	22.22	22.24	
5	QPSK	12	0	21.72	21.81	21.77	22.5
5	QPSK	12	7	21.64	21.66	21.61	
5	QPSK	12	13	21.57	21.61	21.56	
5	QPSK	25	0	21.49	21.58	21.48	22.5
5	16QAM	1	0	21.61	21.68	21.59	
5	16QAM	1	12	21.87	21.88	21.83	
5	16QAM	1	24	21.66	21.67	21.59	21.5
5	16QAM	12	0	20.56	20.58	20.57	
5	16QAM	12	7	20.49	20.55	20.48	
5	16QAM	12	13	20.55	20.56	20.46	21.5
5	16QAM	25	0	20.48	20.57	20.55	
5	64QAM	1	0	20.56	20.63	20.59	
5	64QAM	1	12	20.72	20.79	20.76	21.5
5	64QAM	1	24	20.33	20.42	20.36	
5	64QAM	12	0	19.59	19.63	19.62	
5	64QAM	12	7	19.63	19.66	19.58	20.5
5	64QAM	12	13	19.51	19.60	19.58	
5	64QAM	25	0	19.54	19.64	19.56	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.26	22.40	22.23	23.5
3	QPSK	1	8	22.43	22.58	22.50	
3	QPSK	1	14	22.14	22.13	22.15	
3	QPSK	8	0	21.63	21.72	21.68	22.5
3	QPSK	8	4	21.55	21.57	21.52	
3	QPSK	8	7	21.48	21.52	21.47	
3	QPSK	15	0	21.40	21.49	21.39	22.5
3	16QAM	1	0	21.52	21.59	21.50	
3	16QAM	1	8	21.78	21.79	21.74	
3	16QAM	1	14	21.57	21.58	21.50	21.5
3	16QAM	8	0	20.47	20.49	20.48	
3	16QAM	8	4	20.40	20.46	20.39	
3	16QAM	8	7	20.46	20.47	20.37	21
3	16QAM	15	0	20.39	20.48	20.46	
3	64QAM	1	0	20.47	20.54	20.50	
3	64QAM	1	8	20.63	20.70	20.67	21
3	64QAM	1	14	20.24	20.33	20.27	
3	64QAM	8	0	19.50	19.54	19.53	
3	64QAM	8	4	19.54	19.57	19.49	20.5
3	64QAM	8	7	19.42	19.51	19.49	
3	64QAM	15	0	19.45	19.55	19.47	

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.70	22.75	22.71	24
20	QPSK	1	49	22.93	23.01	22.86	
20	QPSK	1	99	22.52	22.56	22.51	
20	QPSK	50	0	21.92	21.98	21.89	23
20	QPSK	50	24	21.79	21.86	21.85	
20	QPSK	50	50	21.76	21.84	21.74	
20	QPSK	100	0	21.80	21.81	21.78	23
20	16QAM	1	0	21.82	21.88	21.85	
20	16QAM	1	49	22.12	22.19	22.11	
20	16QAM	1	99	21.83	21.89	21.87	22
20	16QAM	50	0	20.74	20.80	20.77	
20	16QAM	50	24	20.77	20.87	20.78	
20	16QAM	50	50	20.85	20.86	20.76	22
20	16QAM	100	0	20.74	20.82	20.73	
20	64QAM	1	0	20.78	20.86	20.76	
20	64QAM	1	49	21.09	21.10	21.03	22
20	64QAM	1	99	20.73	20.77	20.75	
20	64QAM	50	0	19.82	19.86	19.78	
20	64QAM	50	24	19.85	19.89	19.83	21
20	64QAM	50	50	19.87	19.88	19.82	
20	64QAM	100	0	19.76	19.86	19.79	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.63	22.68	22.64	24
15	QPSK	1	37	22.86	22.94	22.79	
15	QPSK	1	74	22.45	22.49	22.44	
15	QPSK	36	0	21.85	21.91	21.82	23
15	QPSK	36	20	21.72	21.79	21.78	
15	QPSK	36	39	21.69	21.77	21.67	
15	QPSK	75	0	21.73	21.74	21.71	23
15	16QAM	1	0	21.75	21.81	21.78	
15	16QAM	1	37	22.05	22.12	22.04	
15	16QAM	1	74	21.76	21.82	21.80	22
15	16QAM	36	0	20.67	20.73	20.70	
15	16QAM	36	20	20.70	20.80	20.71	
15	16QAM	36	39	20.78	20.79	20.69	22
15	16QAM	75	0	20.67	20.75	20.66	
15	64QAM	1	0	20.71	20.79	20.69	22
15	64QAM	1	37	21.02	21.03	20.97	
15	64QAM	1	74	20.66	20.70	20.68	
15	64QAM	36	0	19.75	19.79	19.71	21
15	64QAM	36	20	19.78	19.82	19.76	
15	64QAM	36	39	19.80	19.81	19.75	
15	64QAM	75	0	19.69	19.79	19.72	Tune-up limit (dBm)
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.56	22.61	22.57	24
10	QPSK	1	25	22.79	22.87	22.72	
10	QPSK	1	49	22.38	22.42	22.37	
10	QPSK	25	0	21.78	21.84	21.75	23
10	QPSK	25	12	21.65	21.72	21.71	
10	QPSK	25	25	21.62	21.70	21.60	
10	QPSK	50	0	21.66	21.67	21.64	23
10	16QAM	1	0	21.68	21.74	21.71	
10	16QAM	1	25	21.88	22.05	21.97	
10	16QAM	1	49	21.69	21.75	21.73	22
10	16QAM	25	0	20.60	20.66	20.63	
10	16QAM	25	12	20.63	20.73	20.64	
10	16QAM	25	25	20.71	20.72	20.62	22
10	16QAM	50	0	20.60	20.68	20.59	
10	64QAM	1	0	20.64	20.72	20.62	22
10	64QAM	1	25	20.95	20.96	20.89	
10	64QAM	1	49	20.59	20.63	20.61	
10	64QAM	25	0	19.68	19.72	19.64	21
10	64QAM	25	12	19.71	19.75	19.69	
10	64QAM	25	25	19.73	19.74	19.68	
10	64QAM	50	0	19.62	19.72	19.65	Tune-up limit (dBm)
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.49	22.54	22.50	23.5
5	QPSK	1	12	22.72	22.80	22.65	
5	QPSK	1	24	22.31	22.35	22.30	
5	QPSK	12	0	21.71	21.77	21.68	22.5
5	QPSK	12	7	21.58	21.65	21.64	
5	QPSK	25	0	21.55	21.63	21.53	
5	QPSK	25	0	21.59	21.60	21.57	22.5
5	16QAM	1	0	21.61	21.67	21.64	
5	16QAM	1	12	21.91	21.98	21.90	
5	16QAM	1	24	21.62	21.68	21.66	21.5
5	16QAM	12	0	20.53	20.59	20.56	
5	16QAM	12	7	20.56	20.66	20.57	
5	16QAM	12	13	20.64	20.65	20.55	20.5
5	16QAM	25	0	20.53	20.61	20.52	
5	64QAM	1	0	20.57	20.65	20.55	
5	64QAM	1	12	20.88	20.89	20.82	20.5
5	64QAM	1	24	20.52	20.56	20.54	
5	64QAM	12	0	19.61	19.65	19.57	
5	64QAM	12	7	19.64	19.68	19.62	20.5
5	64QAM	12	13	19.66	19.67	19.61	
5	64QAM	25	0	19.55	19.65	19.58	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.41	22.46	22.42	23.5
3	QPSK	1	8	22.64	22.72	22.57	
3	QPSK	1	14	22.23	22.27	22.22	
3	QPSK	8	0	21.63	21.69	21.60	22.5
3	QPSK	8	4	21.50	21.57	21.56	
3	QPSK	8	7	21.47	21.55	21.45	
3	QPSK	16	0	21.51	21.52	21.49	22.5
3	16QAM	1	0	21.53	21.59	21.56	
3	16QAM	1	8	21.83	21.90	21.82	
3	16QAM	1	14	21.54	21.60	21.58	21.5
3	16QAM	8	0	20.45	20.51	20.48	
3	16QAM	8	4	20.48	20.58	20.47	
3	16QAM	8	7	20.56	20.57	20.49	21.5
3	16QAM	15	0	20.45	20.53	20.44	
3	64QAM	1	0	20.49	20.57	20.47	
3	64QAM	1	8	20.80	20.81	20.74	21.5
3	64QAM	1	14	20.44	20.48	20.46	
3	64QAM	8	0	19.53	19.57	19.49	
3	64QAM	8	4	19.56	19.60	19.54	20.5
3	64QAM	8	7	19.58	19.59	19.53	
3	64QAM	15	0	19.47	19.57	19.50	

Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.17	22.31	22.14	23.5
1.4	QPSK	1	3	22.34	22.49	22.41	
1.4	QPSK	1	5	22.05	22.04	22.06	
1.4	QPSK	3	0	22.42	22.51	22.47	
1.4	QPSK	3	1	22.34	22.36	22.31	
1.4	QPSK	3	3	22.27	22.31	22.26	
1.4	QPSK	6	0	21.31	21.40	21.30	22
1.4	16QAM	1	0	21.43	21.50	21.41	22.5
1.4	16QAM	1	3	21.69	21.70	21.65	
1.4	16QAM	1	5	21.48	21.49	21.41	
1.4	16QAM	3	0	21.26	21.28	21.27	
1.4	16QAM	3	1	21.19	21.25	21.18	
1.4	16QAM	3	3	21.25	21.26	21.16	
1.4	16QAM	6	0	20.30	20.39	20.37	21
1.4	64QAM	1	0	20.38	20.45	20.41	21
1.4	64QAM	1	3	20.54	20.61	20.58	
1.4	64QAM	1	5	20.15	20.24	20.18	
1.4	64QAM	3	0	20.29	20.33	20.32	
1.4	64QAM	3	1	20.33	20.36	20.28	
1.4	64QAM	3	3	20.21	20.30	20.28	
1.4	64QAM	6	0	19.36	19.46	19.38	20

Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.33	22.38	22.34	23.5
1.4	QPSK	1	3	22.56	22.64	22.49	
1.4	QPSK	1	5	22.15	22.19	22.14	
1.4	QPSK	3	0	22.43	22.49	22.40	
1.4	QPSK	3	1	22.30	22.37	22.36	
1.4	QPSK	3	3	22.27	22.35	22.25	
1.4	QPSK	6	0	21.43	21.44	21.41	22
1.4	16QAM	1	0	21.45	21.51	21.48	22.5
1.4	16QAM	1	3	21.75	21.82	21.74	
1.4	16QAM	1	5	21.46	21.52	21.50	
1.4	16QAM	3	0	21.25	21.31	21.28	
1.4	16QAM	3	1	21.28	21.38	21.29	
1.4	16QAM	3	3	21.36	21.37	21.27	
1.4	16QAM	6	0	20.37	20.45	20.36	21
1.4	64QAM	1	0	20.41	20.49	20.39	21
1.4	64QAM	1	3	20.72	20.73	20.66	
1.4	64QAM	1	5	20.36	20.40	20.38	
1.4	64QAM	3	0	20.33	20.37	20.29	
1.4	64QAM	3	1	20.36	20.40	20.34	
1.4	64QAM	3	3	20.38	20.39	20.33	
1.4	64QAM	6	0	19.39	19.49	19.42	20

Band 5 (Cellular Band) (dBm) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	24
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.91	22.97	22.89	24
10	QPSK	1	25	22.89	23.05	22.91	
10	QPSK	1	49	22.88	22.96	22.87	
10	QPSK	25	0	22.01	22.07	21.99	
10	QPSK	25	12	22.06	22.09	22.00	23
10	QPSK	25	25	21.99	22.07	22.04	
10	QPSK	50	0	21.96	22.06	22.05	
10	16QAM	1	0	22.27	22.28	22.23	
10	16QAM	1	25	22.34	22.39	22.30	23
10	16QAM	1	49	22.19	22.23	22.17	
10	16QAM	25	0	21.02	21.09	21.00	
10	16QAM	25	12	20.97	21.06	21.02	
10	16QAM	25	25	21.04	21.07	21.05	22
10	16QAM	50	0	21.03	21.09	21.04	
10	64QAM	1	0	21.15	21.17	21.08	
10	64QAM	1	25	21.19	21.27	21.17	
10	64QAM	1	49	21.06	21.12	21.02	21
10	64QAM	25	0	20.10	20.15	20.08	
10	64QAM	25	12	20.04	20.10	20.06	
10	64QAM	25	25	20.05	20.12	20.06	
10	64QAM	50	0	20.05	20.08	20.00	21
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	22.82	22.88	22.80	24
5	QPSK	1	12	22.80	22.96	22.82	
5	QPSK	1	24	22.79	22.87	22.78	
5	QPSK	12	0	21.92	21.98	21.90	
5	QPSK	12	7	21.97	22.00	21.91	23
5	QPSK	12	13	21.90	21.98	21.95	
5	QPSK	25	0	21.87	21.97	21.96	
5	16QAM	1	0	22.18	22.19	22.14	
5	16QAM	1	12	22.25	22.30	22.21	23
5	16QAM	1	24	22.10	22.14	22.08	
5	16QAM	12	0	20.93	21.00	20.91	
5	16QAM	12	7	20.88	20.97	20.93	
5	16QAM	12	13	20.95	20.98	20.96	22
5	16QAM	25	0	20.94	21.00	20.95	
5	64QAM	1	0	21.06	21.08	20.99	
5	64QAM	1	12	21.10	21.18	21.08	
5	64QAM	1	24	20.97	21.03	20.93	21
5	64QAM	12	0	20.91	20.96	19.99	
5	64QAM	12	7	19.95	20.01	19.97	
5	64QAM	12	13	19.96	20.03	19.97	
5	64QAM	25	0	19.96	19.99	19.91	21
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	22.73	22.79	22.71	24
3	QPSK	1	8	22.71	22.87	22.73	
3	QPSK	1	14	22.70	22.78	22.69	
3	QPSK	8	0	21.83	21.89	21.81	
3	QPSK	8	4	21.88	21.91	21.82	23
3	QPSK	8	7	21.81	21.89	21.86	
3	QPSK	15	0	21.78	21.88	21.87	
3	16QAM	1	0	22.09	22.10	22.05	
3	16QAM	1	8	22.16	22.21	22.12	23
3	16QAM	1	14	22.01	22.05	21.99	
3	16QAM	8	0	20.84	20.91	20.82	
3	16QAM	8	4	20.79	20.88	20.84	
3	16QAM	8	7	20.86	20.89	20.87	22
3	16QAM	15	0	20.85	20.91	20.86	
3	64QAM	1	0	20.97	20.99	20.90	
3	64QAM	1	8	21.01	21.09	20.99	
3	64QAM	1	14	20.88	20.94	20.84	21
3	64QAM	8	0	19.92	19.97	19.90	
3	64QAM	8	4	19.86	19.92	19.88	
3	64QAM	8	7	19.87	19.94	19.88	
3	64QAM	15	0	19.87	19.90	19.82	21
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	22.64	22.70	22.62	24
1.4	QPSK	1	3	22.62	22.78	22.64	
1.4	QPSK	1	5	22.61	22.69	22.60	
1.4	QPSK	3	0	21.74	21.80	21.72	
1.4	QPSK	3	1	21.79	21.82	21.73	23
1.4	QPSK	3	3	21.72	21.80	21.77	
1.4	QPSK	6	0	21.69	21.79	21.78	
1.4	16QAM	1	0	22.00	22.01	21.96	
1.4	16QAM	1	3	22.07	22.12	22.03	23
1.4	16QAM	1	5	21.92	21.96	21.90	
1.4	16QAM	3	0	20.75	20.82	20.73	
1.4	16QAM	3	1	20.70	20.79	20.75	
1.4	16QAM	3	3	20.77	20.80	20.78	22
1.4	16QAM	6	0	20.76	20.82	20.77	
1.4	64QAM	1	0	20.88	20.90	20.81	
1.4	64QAM	1	3	20.92	21.00	20.90	
1.4	64QAM	1	5	20.79	20.85	20.75	22
1.4	64QAM	3	0	19.83	19.88	19.81	
1.4	64QAM	3	1	19.77	19.83	19.79	
1.4	64QAM	3	3	19.78	19.85	19.79	
1.4	64QAM	6	0	19.78	19.81	19.73	21

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	24
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.89	22.93	22.84	24
10	QPSK	1	25	23.11	23.14	23.09	
10	QPSK	1	49	22.84	23.02	22.91	
10	QPSK	25	0	22.02	22.04	21.93	
10	QPSK	25	12	22.09	22.12	22.07	23
10	QPSK	25	25	22.05	22.07	21.98	
10	QPSK	50	0	22.06	22.08	22.04	
10	16QAM	1	0	22.09	22.19	22.13	
10	16QAM	1	25	22.36	22.39	22.31	23
10	16QAM	1	49	22.32	22.36	22.26	
10	16QAM	25	0	20.93	20.99	20.90	
10	16QAM	25	12	21.09	21.16	21.12	
10	16QAM	25	25	21.08	21.17	21.07	22
10	16QAM	50	0	21.11	21.14	21.06	
10	64QAM	1	0	21.06	21.15	21.12	
10	64QAM	1	25	21.28	21.38	21.36	
10	64QAM	1	49	21.29	21.31	21.28	21
10	64QAM	25	0	20.05	20.11	20.03	
10	64QAM	25	12	20.05	20.15	20.13	
10	64QAM	25	25	20.04	20.09	20.01	
10	64QAM	50	0	20.12	20.13	20.06	21
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)
5	QPSK	1	0	22.80	22.84	22.75	24
5	QPSK	1	12	23.02	23.05	23.00	
5	QPSK	1	24	22.75	22.93	22.82	
5	QPSK	12	0	21.93	21.95	21.84	
5	QPSK	12	7	22.00	22.03	21.98	23
5	QPSK	12	13	21.96	21.98	21.89	
5	QPSK	25	0	21.97	21.99	21.95	
5	16QAM	1	0	22.00	22.10	22.04	
5	16QAM	1	12	22.27	22.30	22.22	23
5	16QAM	1	24	22.23	22.27	22.17	
5	16QAM	12	0	20.84	20.90	20.81	
5	16QAM	12	7	21.00	21.07	21.03	
5	16QAM	12	13	20.99	21.08	20.98	22
5	16QAM	25	0	21.02	21.05	20.97	
5	64QAM	1	0	20.97	21.06	21.03	
5	64QAM	1	12	21.19	21.29	21.27	
5	64QAM	1	24	21.20	21.22	21.19	21
5	64QAM	12	0	19.96	20.02	19.94	
5	64QAM	12	7	19.96	20.06	20.04	
5	64QAM	12	13	19.95	20.00	19.92	
5	64QAM	25	0	20.03	20.04	19.97	21
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	Tune-up limit (dBm)
3	QPSK	1	0	22.71	22.75	22.66	24
3	QPSK	1	8	22.93	22.96	22.91	
3	QPSK	1	14	22.66	22.84	22.73	
3	QPSK	8	0	21.84	21.86	21.75	
3	QPSK	8	4	21.91	21.94	21.89	23
3	QPSK	8	7	21.87	21.89	21.80	
3	QPSK	15	0	21.88	21.90	21.86	
3	16QAM	1	0	21.91	22.01	21.95	
3	16QAM	1	8	22.18	22.21	22.13	23
3	16QAM	1	14	22.14	22.18	22.08	
3	16QAM	8	0	20.75	20.81	20.72	
3	16QAM	8	4	20.91	20.98	20.94	
3	16QAM	8	7	20.90	20.99	20.89	22
3	16QAM	15	0	20.93	20.96	20.88	
3	64QAM	1	0	20.88	20.97	20.94	
3	64QAM	1	8	21.10	21.20	21.18	
3	64QAM	1	14	21.11	21.13	21.10	21
3	64QAM	8	0	19.87	19.93	19.85	
3	64QAM	8	4	19.87	19.97	19.95	
3	64QAM	8	7	19.86	19.91	19.83	
3	64QAM	15	0	19.94	19.95	19.88	21
Channel				23017	23095	23173	

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	22.97	22.99	22.92	24
10	QPSK	1	25	23.02	23.12	22.94	
10	QPSK	1	49	22.88	22.92	22.82	
10	QPSK	25	0	21.90	22.03	21.97	23
10	QPSK	25	12	22.09	22.14	22.07	
10	QPSK	25	25	22.02	22.10	22.01	
10	QPSK	50	0	22.07	22.09	22.08	23
10	16QAM	1	0	22.17	22.26	22.25	
10	16QAM	1	25	22.32	22.37	22.34	
10	16QAM	1	49	22.23	22.29	22.20	22
10	16QAM	25	0	21.12	21.17	21.09	
10	16QAM	25	12	21.10	21.15	21.14	
10	16QAM	25	25	21.11	21.14	21.07	22
10	16QAM	50	0	21.14	21.15	21.13	
10	64QAM	1	0	21.15	21.20	21.11	
10	64QAM	1	25	21.24	21.34	21.25	22
10	64QAM	1	49	21.20	21.28	21.21	
10	64QAM	25	0	20.16	20.18	20.11	
10	64QAM	25	12	20.06	20.15	20.07	21
10	64QAM	25	25	20.12	20.17	20.14	
10	64QAM	50	0	20.10	20.13	20.11	
Channel				23755	23790	23825	
Frequency (MHz)				708.5	710	713.5	
5	QPSK	1	0	22.85	22.87	22.80	24
5	QPSK	1	12	22.90	23.00	22.82	
5	QPSK	1	24	22.76	22.80	22.70	
5	QPSK	12	0	21.78	21.91	21.85	23
5	QPSK	12	7	21.97	22.02	21.95	
5	QPSK	12	13	21.90	21.98	21.89	
5	QPSK	25	0	21.95	21.97	21.96	23
5	16QAM	1	0	22.05	22.14	22.13	
5	16QAM	1	12	22.20	22.25	22.22	
5	16QAM	1	24	22.11	22.17	22.08	22
5	16QAM	12	0	21.00	21.05	20.97	
5	16QAM	12	7	20.98	21.03	21.02	
5	16QAM	12	13	20.99	21.02	20.95	22
5	16QAM	25	0	21.02	21.03	21.01	
5	64QAM	1	0	21.03	21.08	20.99	
5	64QAM	1	12	21.12	21.22	21.13	22
5	64QAM	1	24	21.08	21.16	21.09	
5	64QAM	12	0	20.04	20.06	19.99	
5	64QAM	12	7	19.94	20.03	19.95	21
5	64QAM	12	13	20.00	20.05	20.02	
5	64QAM	25	0	19.98	20.01	19.99	

Band 25 (1900MHz Band) (dBm)							
Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	22.67	22.81	22.73	24
20	QPSK	1	49	23.07	23.15	23.11	
20	QPSK	1	99	22.70	22.72	22.69	
20	QPSK	50	0	21.96	22.11	22.09	
20	QPSK	50	24	21.78	21.83	21.76	
20	QPSK	50	50	21.63	21.73	21.68	
20	QPSK	100	0	21.66	21.69	21.67	23
20	16QAM	1	0	21.72	21.77	21.74	
20	16QAM	1	49	22.07	22.11	22.04	
20	16QAM	1	99	21.80	21.81	21.74	23
20	16QAM	50	0	20.65	20.73	20.63	
20	16QAM	50	24	20.81	20.82	20.76	
20	16QAM	50	50	20.61	20.71	20.62	22
20	16QAM	100	0	20.60	20.69	20.67	
20	64QAM	1	0	20.66	20.74	20.68	
20	64QAM	1	49	20.98	21.06	20.99	22
20	64QAM	1	99	20.64	20.74	20.67	
20	64QAM	50	0	19.78	19.81	19.79	
20	64QAM	50	24	19.79	19.85	19.75	21
20	64QAM	50	50	19.69	19.76	19.70	
20	64QAM	100	0	19.64	19.74	19.70	
Channel				26115	26365	26615	
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	22.58	22.72	22.64	24
15	QPSK	1	37	22.98	23.06	23.02	
15	QPSK	1	74	22.61	22.63	22.60	
15	QPSK	36	0	21.87	22.02	22.00	23
15	QPSK	36	20	21.69	21.74	21.67	
15	QPSK	36	39	21.54	21.64	21.59	
15	QPSK	75	0	21.57	21.60	21.58	23
15	16QAM	1	0	21.63	21.68	21.65	
15	16QAM	1	37	21.98	22.02	21.95	
15	16QAM	1	74	21.71	21.72	21.65	22
15	16QAM	36	0	20.56	20.64	20.54	
15	16QAM	36	20	20.72	20.73	20.67	
15	16QAM	36	39	20.52	20.62	20.53	22
15	16QAM	75	0	20.51	20.60	20.58	
15	64QAM	1	0	20.57	20.65	20.59	
15	64QAM	1	37	20.89	20.97	20.90	22
15	64QAM	1	74	20.55	20.65	20.58	
15	64QAM	36	0	19.69	19.72	19.70	
15	64QAM	36	20	19.70	19.76	19.66	21
15	64QAM	36	39	19.60	19.67	19.61	
15	64QAM	75	0	19.55	19.65	19.61	
Channel				26090	26365	26640	
Frequency (MHz)				1885	1882.5	1910	
10	QPSK	1	0	22.49	22.63	22.55	24
10	QPSK	1	25	22.89	22.97	22.93	
10	QPSK	1	49	22.52	22.54	22.51	
10	QPSK	25	0	21.78	21.93	21.91	23
10	QPSK	25	12	21.60	21.65	21.58	
10	QPSK	25	25	21.45	21.55	21.50	
10	QPSK	50	0	21.48	21.51	21.49	23
10	16QAM	1	0	21.54	21.59	21.56	
10	16QAM	1	25	21.89	21.93	21.86	
10	16QAM	1	49	21.62	21.63	21.56	22
10	16QAM	25	0	20.47	20.55	20.45	
10	16QAM	25	12	20.63	20.64	20.58	
10	16QAM	25	25	20.43	20.53	20.44	22
10	16QAM	50	0	20.42	20.51	20.49	
10	64QAM	1	0	20.48	20.56	20.50	
10	64QAM	1	25	20.80	20.89	20.81	22
10	64QAM	1	49	20.46	20.56	20.49	
10	64QAM	25	0	19.60	19.63	19.61	
10	64QAM	25	12	19.61	19.67	19.57	21
10	64QAM	25	25	19.51	19.58	19.52	
10	64QAM	50	0	19.46	19.56	19.52	
Channel				26065	26365	26665	
Frequency (MHz)				1882.5	1882.5	1912.5	
5	QPSK	1	0	22.40	22.54	22.46	24
5	QPSK	1	12	22.80	22.88	22.84	
5	QPSK	1	24	22.43	22.45	22.42	
5	QPSK	12	0	21.69	21.84	21.82	23
5	QPSK	12	7	21.51	21.56	21.49	
5	QPSK	12	13	21.36	21.46	21.41	
5	QPSK	25	0	21.39	21.42	21.40	23
5	16QAM	1	0	21.45	21.50	21.47	
5	16QAM	1	12	21.80	21.84	21.77	
5	16QAM	1	24	21.53	21.54	21.47	22
5	16QAM	12	0	20.38	20.46	20.36	
5	16QAM	12	7	20.54	20.55	20.49	
5	16QAM	12	13	20.34	20.44	20.35	22
5	16QAM	25	0	20.33	20.42	20.40	
5	64QAM	1	0	20.39	20.47	20.41	
5	64QAM	1	12	20.71	20.79	20.72	22
5	64QAM	1	24	20.37	20.47	20.40	
5	64QAM	12	0	19.51	19.54	19.52	
5	64QAM	12	7	19.52	19.58	19.48	21
5	64QAM	12	13	19.42	19.49	19.43	
5	64QAM	25	0	19.37	19.47	19.43	
Channel				26055	26365	26675	
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	22.31	22.45	22.37	24
3	QPSK	1	8	22.71	22.79	22.75	
3	QPSK	1	14	22.34	22.36	22.33	
3	QPSK	8	0	21.60	21.75	21.73	23
3	QPSK	8	4	21.42	21.47	21.40	
3	QPSK	8	7	21.27	21.37	21.32	
3	QPSK	15	0	21.30	21.33	21.31	23
3	16QAM	1	0	21.36	21.41	21.38	
3	16QAM	1	8	21.71	21.75	21.68	
3	16QAM	1	14	21.44	21.45	21.38	22
3	16QAM	8	0	20.29	20.37	20.27	
3	16QAM	8	4	20.45	20.46	20.40	
3	16QAM	8	7	20.25	20.35	20.26	22
3	16QAM	15	0	20.24	20.33	20.31	
3	64QAM	1	0	20.30	20.38	20.32	
3	64QAM	1	8	20.62	20.70	20.63	22
3	64QAM	1	14	20.28	20.38	20.31	
3	64QAM	8	0	19.42	19.45	19.43	
3	64QAM	8	4	19.43	19.49	19.39	21
3	64QAM	8	7	19.33	19.40	19.34	
3	64QAM	15	0	19.28	19.38	19.34	



REPORT No.: SZ24020075S01

Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	22.22	22.36	22.28	24
1.4	QPSK	1	3	22.62	22.70	22.66	
1.4	QPSK	1	5	22.25	22.27	22.24	
1.4	QPSK	3	0	22.41	22.56	22.54	
1.4	QPSK	3	1	22.23	22.28	22.21	
1.4	QPSK	3	3	22.08	22.18	22.13	
1.4	QPSK	6	0	21.21	21.24	21.22	23
1.4	16QAM	1	0	21.27	21.32	21.29	22
1.4	16QAM	1	3	21.62	21.66	21.59	
1.4	16QAM	1	5	21.35	21.36	21.29	
1.4	16QAM	3	0	21.10	21.18	21.08	
1.4	16QAM	3	1	21.26	21.27	21.21	
1.4	16QAM	3	3	21.06	21.16	21.07	
1.4	16QAM	6	0	20.15	20.24	20.22	21
1.4	64QAM	1	0	20.21	20.29	20.23	22
1.4	64QAM	1	3	20.53	20.61	20.54	
1.4	64QAM	1	5	20.19	20.29	20.22	
1.4	64QAM	3	0	20.23	20.26	20.24	
1.4	64QAM	3	1	20.24	20.30	20.20	
1.4	64QAM	3	3	20.14	20.21	20.15	
1.4	64QAM	6	0	19.19	19.29	19.25	21

Band 26 for FCC (dBm) (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.73	22.83	22.77	24
15	QPSK	1	37	23.03	23.18	22.96	
15	QPSK	1	74	22.75	22.76	22.70	
15	QPSK	36	0	21.91	21.96	21.84	
15	QPSK	36	20	21.77	21.82	21.76	23
15	QPSK	36	39	21.81	21.83	21.80	
15	QPSK	75	0	21.76	21.78	21.77	
15	16QAM	1	0	21.79	21.80	21.72	
15	16QAM	1	37	21.91	21.97	21.96	23
15	16QAM	1	74	22.04	22.13	22.10	
15	16QAM	36	0	21.90	21.92	21.88	
15	16QAM	36	20	21.47	21.57	21.51	
15	16QAM	36	39	21.46	21.44	21.44	22
15	16QAM	75	0	20.72	20.77	20.68	
15	64QAM	1	0	20.71	20.79	20.69	
15	64QAM	1	37	20.75	20.85	20.76	
15	64QAM	1	74	20.98	21.04	20.95	21
15	64QAM	36	0	20.75	20.83	20.73	
15	64QAM	36	20	20.77	20.86	20.77	
15	64QAM	36	39	20.79	20.84	20.74	
15	64QAM	75	0	19.77	19.82	19.81	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	Tune-up limit (dBm)
10	QPSK	1	0	22.65	22.75	22.69	24
10	QPSK	1	25	22.95	23.10	22.88	
10	QPSK	1	49	22.67	22.68	22.62	
10	QPSK	25	0	21.83	21.88	21.76	
10	QPSK	25	12	21.69	21.74	21.68	23
10	QPSK	25	25	21.73	21.75	21.72	
10	QPSK	50	0	21.68	21.70	21.69	
10	16QAM	1	0	21.71	21.72	21.64	
10	16QAM	1	25	21.83	21.89	21.88	23
10	16QAM	1	49	21.96	22.05	22.02	
10	16QAM	25	0	21.82	21.84	21.80	
10	16QAM	25	12	21.39	21.49	21.43	
10	16QAM	25	25	21.38	21.36	21.36	22
10	16QAM	50	0	20.64	20.69	20.60	
10	64QAM	1	0	20.63	20.71	20.61	
10	64QAM	1	25	20.67	20.77	20.68	
10	64QAM	1	49	20.90	20.96	20.87	22
10	64QAM	25	0	20.67	20.75	20.65	
10	64QAM	25	12	20.89	20.78	20.69	
10	64QAM	25	25	20.71	20.76	20.66	
10	64QAM	50	0	19.69	19.74	19.73	21
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	22.57	22.67	22.61	24
5	QPSK	1	12	22.87	23.02	22.80	
5	QPSK	1	24	22.59	22.60	22.54	
5	QPSK	12	0	21.75	21.80	21.68	
5	QPSK	12	7	21.61	21.66	21.60	23
5	QPSK	12	13	21.65	21.67	21.64	
5	QPSK	25	0	21.60	21.62	21.61	
5	16QAM	1	0	21.63	21.64	21.56	
5	16QAM	1	12	21.75	21.81	21.80	23
5	16QAM	1	24	21.88	21.97	21.94	
5	16QAM	12	0	21.74	21.76	21.72	
5	16QAM	12	7	21.31	21.41	21.35	
5	16QAM	12	13	21.30	21.28	21.28	22
5	16QAM	25	0	20.56	20.61	20.52	
5	64QAM	1	0	20.55	20.63	20.53	
5	64QAM	1	12	20.59	20.69	20.60	
5	64QAM	1	24	20.82	20.88	20.79	22
5	64QAM	12	0	20.59	20.67	20.57	
5	64QAM	12	7	20.61	20.70	20.61	
5	64QAM	12	13	20.63	20.68	20.58	
5	64QAM	25	0	19.61	19.66	19.65	21
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	22.49	22.59	22.53	24
3	QPSK	1	8	22.79	22.94	22.72	
3	QPSK	1	14	22.51	22.52	22.46	
3	QPSK	8	0	21.67	21.72	21.60	
3	QPSK	8	4	21.53	21.58	21.52	23
3	QPSK	8	7	21.57	21.59	21.56	
3	QPSK	15	0	21.52	21.54	21.53	
3	16QAM	1	0	21.55	21.56	21.48	
3	16QAM	1	8	21.67	21.73	21.72	23
3	16QAM	1	14	21.80	21.89	21.86	
3	16QAM	8	0	21.66	21.68	21.64	
3	16QAM	8	4	21.23	21.33	21.27	
3	16QAM	8	7	21.22	21.20	21.20	22
3	16QAM	15	0	20.48	20.53	20.44	
3	64QAM	1	0	20.47	20.55	20.45	
3	64QAM	1	8	20.51	20.61	20.52	
3	64QAM	1	14	20.74	20.80	20.71	22
3	64QAM	8	0	20.51	20.59	20.49	
3	64QAM	8	4	20.53	20.62	20.53	
3	64QAM	8	7	20.55	20.60	20.50	
3	64QAM	15	0	19.53	19.58	19.57	21
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	22.41	22.51	22.45	24
1.4	QPSK	1	3	22.71	22.86	22.64	
1.4	QPSK	1	5	22.43	22.44	22.38	
1.4	QPSK	3	0	21.59	21.64	21.52	
1.4	QPSK	3	1	21.45	21.50	21.44	23
1.4	QPSK	3	3	21.49	21.51	21.48	
1.4	QPSK	6	0	21.44	21.46	21.45	
1.4	16QAM	1	0	21.47	21.48	21.40	
1.4	16QAM	1	3	21.59	21.65	21.64	23
1.4	16QAM	1	5	21.72	21.81	21.78	
1.4	16QAM	3	0	21.58	21.60	21.56	
1.4	16QAM	3	1	21.15	21.25	21.19	
1.4	16QAM	3	3	21.14	21.12	21.12	22
1.4	16QAM	6	0	20.40	20.45	20.36	
1.4	64QAM	1	0	20.39	20.47	20.37	
1.4	64QAM	1	3	20.43	20.53	20.44	
1.4	64QAM	1	5	20.66	20.72	20.63	22
1.4	64QAM	3	0	20.43	20.51	20.41	
1.4	64QAM	3	1	20.45	20.54	20.45	
1.4	64QAM	3	3	20.47	20.52	20.42	
1.4	64QAM	6	0	19.45	19.50	19.49	21

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	22.50	22.57	22.47	23.5
20	QPSK	1	49	22.74	22.77	22.69	
20	QPSK	1	99	22.30	22.35	22.33	
20	QPSK	50	0	21.77	21.80	21.79	
20	QPSK	50	24	21.70	21.73	21.68	22.5
20	QPSK	50	50	21.46	21.52	21.51	
20	QPSK	100	0	21.58	21.59	21.55	
20	16QAM	1	0	21.81	21.71	21.81	
20	16QAM	1	49	21.91	21.97	21.88	22.5
20	16QAM	1	99	21.51	21.61	21.56	
20	16QAM	50	0	20.70	20.73	20.70	
20	16QAM	50	24	20.65	20.71	20.68	
20	16QAM	50	50	20.57	20.61	20.60	21.5
20	16QAM	100	0	20.58	20.67	20.66	
20	64QAM	1	0	20.64	20.68	20.66	
20	64QAM	1	49	20.94	20.98	20.92	
20	64QAM	1	99	20.54	20.56	20.48	21.5
20	64QAM	50	0	19.65	19.74	19.64	
20	64QAM	50	24	19.61	19.70	19.63	
20	64QAM	50	50	19.48	19.57	19.54	
20	64QAM	100	0	19.54	19.63	19.58	20.5
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.41	22.48	22.38	23.5
15	QPSK	1	37	22.65	22.68	22.60	
15	QPSK	1	74	22.21	22.26	22.24	
15	QPSK	36	0	21.75	21.71	21.70	
15	QPSK	36	20	21.61	21.64	21.59	22.5
15	QPSK	36	39	21.37	21.43	21.42	
15	QPSK	75	0	21.49	21.50	21.46	
15	16QAM	1	0	21.52	21.62	21.52	
15	16QAM	1	37	21.82	21.88	21.79	22.5
15	16QAM	1	74	21.42	21.52	21.47	
15	16QAM	36	0	20.61	20.64	20.61	
15	16QAM	36	20	20.56	20.62	20.59	
15	16QAM	36	39	20.48	20.52	20.51	21.5
15	16QAM	75	0	20.49	20.58	20.52	
15	64QAM	1	0	20.55	20.59	20.57	
15	64QAM	1	37	20.85	20.89	20.83	
15	64QAM	1	74	20.45	20.47	20.39	21.5
15	64QAM	36	0	19.56	19.65	19.55	
15	64QAM	36	20	19.52	19.61	19.54	
15	64QAM	36	39	19.39	19.48	19.45	
15	64QAM	75	0	19.45	19.54	19.49	20.5
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.32	22.39	22.29	23.5
10	QPSK	1	25	22.56	22.59	22.51	
10	QPSK	1	49	22.12	22.17	22.15	
10	QPSK	25	0	21.66	21.62	21.61	
10	QPSK	25	12	21.52	21.55	21.50	22.5
10	QPSK	25	25	21.28	21.34	21.33	
10	QPSK	50	0	21.40	21.41	21.37	
10	16QAM	1	0	21.43	21.53	21.43	
10	16QAM	1	25	21.73	21.79	21.70	22.5
10	16QAM	1	49	21.33	21.43	21.38	
10	16QAM	25	0	20.52	20.55	20.52	
10	16QAM	25	12	20.47	20.53	20.50	
10	16QAM	25	25	20.39	20.43	20.42	21.5
10	16QAM	50	0	20.40	20.49	20.43	
10	64QAM	1	0	20.46	20.50	20.48	
10	64QAM	1	25	20.76	20.80	20.74	
10	64QAM	1	49	20.36	20.38	20.30	21.5
10	64QAM	25	0	19.47	19.56	19.46	
10	64QAM	25	12	19.43	19.52	19.45	
10	64QAM	25	25	19.30	19.39	19.36	
10	64QAM	50	0	19.36	19.45	19.40	20.5
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.23	22.30	22.20	23.5
5	QPSK	1	12	22.47	22.50	22.42	
5	QPSK	1	24	22.03	22.08	22.06	
5	QPSK	12	0	21.57	21.53	21.52	
5	QPSK	12	7	21.43	21.45	21.41	22.5
5	QPSK	12	13	21.19	21.25	21.24	
5	QPSK	25	0	21.31	21.32	21.28	
5	16QAM	1	0	21.34	21.44	21.34	
5	16QAM	1	12	21.64	21.70	21.61	22.5
5	16QAM	1	24	21.24	21.34	21.29	
5	16QAM	12	0	20.43	20.46	20.43	
5	16QAM	12	7	20.38	20.44	20.41	
5	16QAM	12	13	20.30	20.34	20.33	21.5
5	16QAM	25	0	20.31	20.40	20.34	
5	64QAM	1	0	20.37	20.41	20.39	
5	64QAM	1	12	20.67	20.71	20.65	
5	64QAM	1	24	20.27	20.29	20.21	21.5
5	64QAM	12	0	19.38	19.47	19.37	
5	64QAM	12	7	19.34	19.43	19.36	
5	64QAM	12	13	19.21	19.30	19.27	
5	64QAM	25	0	19.27	19.36	19.31	20.5
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.45	22.52	22.42	23.5
3	QPSK	1	8	22.69	22.72	22.54	
3	QPSK	1	14	22.25	22.30	22.28	
3	QPSK	8	0	21.79	21.75	21.74	
3	QPSK	8	4	21.65	21.68	21.63	22.5
3	QPSK	8	7	21.41	21.47	21.46	
3	QPSK	16	0	21.53	21.54	21.50	
3	16QAM	1	0	21.56	21.66	21.56	
3	16QAM	1	8	21.86	21.92	21.83	22.5
3	16QAM	1	14	21.46	21.56	21.51	
3	16QAM	8	0	20.65	20.68	20.65	
3	16QAM	8	4	20.60	20.66	20.63	
3	16QAM	8	7	20.52	20.56	20.55	21.5
3	16QAM	15	0	20.53	20.62	20.56	
3	64QAM	1	0	20.59	20.63	20.61	
3	64QAM	1	8	20.89	20.93	20.87	
3	64QAM	1	14	20.49	20.51	20.43	21.5
3	64QAM	8	0	19.60	19.69	19.59	
3	64QAM	8	4	19.56	19.65	19.58	
3	64QAM	8	7	19.43	19.52	19.49	
3	64QAM	15	0	19.49	19.58	19.53	20.5



REPORT No.: SZ24020075S01

Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.36	22.43	22.33	23.5
1.4	QPSK	1	3	22.60	22.63	22.55	
1.4	QPSK	1	5	22.16	22.21	22.19	
1.4	QPSK	3	0	22.60	22.56	22.55	
1.4	QPSK	3	1	22.46	22.49	22.44	
1.4	QPSK	3	3	22.22	22.28	22.27	
1.4	QPSK	6	0	21.44	21.45	21.41	22.5
1.4	16QAM	1	0	21.47	21.57	21.47	22.5
1.4	16QAM	1	3	21.77	21.83	21.74	
1.4	16QAM	1	5	21.37	21.47	21.42	
1.4	16QAM	3	0	21.46	21.49	21.46	
1.4	16QAM	3	1	21.41	21.47	21.44	
1.4	16QAM	3	3	21.33	21.37	21.36	
1.4	16QAM	6	0	20.44	20.53	20.47	21.5
1.4	64QAM	1	0	20.50	20.54	20.52	21.5
1.4	64QAM	1	3	20.80	20.84	20.78	
1.4	64QAM	1	5	20.40	20.42	20.34	
1.4	64QAM	3	0	20.41	20.50	20.40	
1.4	64QAM	3	1	20.37	20.46	20.39	
1.4	64QAM	3	3	20.24	20.33	20.30	
1.4	64QAM	6	0	19.40	19.49	19.44	20.5

Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	24
Frequency (MHz)				673	683	688	
20	QPSK	1	0	22.57	22.77	22.67	23
20	QPSK	1	49	23.02	23.05	22.94	
20	QPSK	1	99	22.60	22.62	22.59	
20	QPSK	50	0	21.87	21.92	21.75	
20	QPSK	50	24	21.84	21.90	21.87	
20	QPSK	50	50	21.76	21.86	21.84	23
20	QPSK	100	0	21.75	21.83	21.80	
20	16QAM	1	0	21.81	21.86	21.85	
20	16QAM	1	49	22.25	22.29	22.19	
20	16QAM	1	99	21.88	21.93	21.89	
20	16QAM	50	0	20.82	20.86	20.77	22
20	16QAM	50	24	20.87	20.89	20.82	
20	16QAM	50	50	20.83	20.85	20.79	
20	16QAM	100	0	20.73	20.83	20.81	
20	64QAM	1	0	20.67	20.69	20.60	
20	64QAM	1	49	20.98	21.01	20.97	21
20	64QAM	1	99	20.79	20.86	20.85	
20	64QAM	50	0	19.78	19.86	19.80	
20	64QAM	50	24	19.76	19.84	19.75	
20	64QAM	50	50	19.80	19.83	19.73	
20	64QAM	100	0	19.75	19.81	19.77	24
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	24
15	QPSK	1	0	22.48	22.68	22.58	
15	QPSK	1	37	22.93	22.96	22.85	23
15	QPSK	1	74	22.51	22.53	22.50	
15	QPSK	36	0	21.78	21.83	21.66	
15	QPSK	36	20	21.75	21.81	21.78	
15	QPSK	36	39	21.67	21.77	21.75	23
15	QPSK	75	0	21.66	21.74	21.71	
15	16QAM	1	0	21.72	21.77	21.76	
15	16QAM	1	37	22.16	22.20	22.10	
15	16QAM	1	74	21.79	21.84	21.80	
15	16QAM	36	0	20.73	20.77	20.68	22
15	16QAM	36	20	20.78	20.80	20.73	
15	16QAM	36	39	20.74	20.76	20.70	
15	16QAM	75	0	20.64	20.74	20.72	
15	64QAM	1	0	20.58	20.60	20.51	
15	64QAM	1	37	20.89	20.92	20.88	21
15	64QAM	1	74	20.70	20.77	20.76	
15	64QAM	36	0	19.69	19.77	19.71	
15	64QAM	36	20	19.67	19.75	19.66	
15	64QAM	36	39	19.71	19.74	19.64	
15	64QAM	75	0	19.66	19.72	19.68	24
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	24
10	QPSK	1	0	22.39	22.59	22.49	
10	QPSK	1	25	22.84	22.87	22.76	23
10	QPSK	1	49	22.42	22.44	22.41	
10	QPSK	25	0	21.69	21.74	21.57	
10	QPSK	25	12	21.66	21.72	21.69	
10	QPSK	25	25	21.58	21.68	21.66	23
10	QPSK	50	0	21.57	21.65	21.62	
10	16QAM	1	0	21.63	21.68	21.67	
10	16QAM	1	25	22.07	22.11	22.01	
10	16QAM	1	49	21.70	21.75	21.71	
10	16QAM	25	0	20.64	20.68	20.59	22
10	16QAM	25	12	20.69	20.71	20.64	
10	16QAM	25	25	20.65	20.67	20.61	
10	16QAM	50	0	20.55	20.65	20.63	
10	64QAM	1	0	20.49	20.51	20.42	
10	64QAM	1	25	20.80	20.83	20.79	21
10	64QAM	1	49	20.61	20.68	20.67	
10	64QAM	25	0	19.60	19.68	19.62	
10	64QAM	25	12	19.58	19.66	19.57	
10	64QAM	25	25	19.62	19.65	19.55	
10	64QAM	50	0	19.57	19.63	19.59	24
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	695.5	24
5	QPSK	1	0	22.30	22.50	22.40	
5	QPSK	1	12	22.75	22.78	22.67	23
5	QPSK	1	24	22.33	22.35	22.32	
5	QPSK	12	0	21.60	21.65	21.48	
5	QPSK	12	7	21.57	21.63	21.60	
5	QPSK	12	13	21.49	21.59	21.57	23
5	QPSK	25	0	21.48	21.56	21.53	
5	16QAM	1	0	21.54	21.59	21.58	
5	16QAM	1	12	21.98	22.02	21.92	
5	16QAM	1	24	21.61	21.66	21.62	
5	16QAM	12	0	20.55	20.59	20.50	22
5	16QAM	12	7	20.60	20.62	20.55	
5	16QAM	12	13	20.56	20.58	20.52	
5	16QAM	25	0	20.46	20.56	20.54	
5	64QAM	1	0	20.40	20.42	20.33	
5	64QAM	1	12	20.71	20.74	20.70	21
5	64QAM	1	24	20.52	20.59	20.58	
5	64QAM	12	0	19.51	19.59	19.53	
5	64QAM	12	7	19.49	19.57	19.48	
5	64QAM	12	13	19.53	19.56	19.46	
5	64QAM	25	0	19.48	19.54	19.50	

Band 41 (2496~2690MHz) (dBm)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.82	25.83	25.74	25.71	25.67	26.5
20	QPSK	1	49	25.76	25.83	26.06	25.67	25.89	
20	QPSK	1	99	25.71	25.87	25.72	25.64	25.59	
20	QPSK	50	0	24.76	24.83	25.01	24.79	24.71	
20	QPSK	50	24	24.77	25.01	24.93	24.94	25.00	25.5
20	QPSK	50	50	24.63	24.68	24.72	24.70	24.68	
20	QPSK	100	0	24.64	24.69	24.73	24.63	24.65	
20	16QAM	1	0	24.60	24.61	24.62	24.60	24.56	
20	16QAM	1	49	24.89	24.90	24.91	24.90	24.83	25.5
20	16QAM	1	99	24.54	24.61	24.63	24.54	24.54	
20	16QAM	50	0	23.67	23.71	23.73	23.66	23.71	
20	16QAM	50	24	24.77	24.76	24.80	24.73	24.70	
20	16QAM	50	50	24.66	24.71	24.76	24.70	24.67	25
20	16QAM	100	0	24.64	24.69	24.74	24.64	24.67	
20	64QAM	1	0	23.41	23.40	23.47	23.42	23.41	
20	64QAM	1	49	23.78	23.81	23.82	23.80	23.72	
20	64QAM	1	99	23.39	23.47	23.49	23.40	23.47	24.5
20	64QAM	50	0	22.67	22.62	22.71	22.65	22.67	
20	64QAM	50	24	22.68	22.68	22.74	22.71	22.73	
20	64QAM	50	50	22.70	22.74	22.77	22.75	22.68	
20	64QAM	100	0	22.66	22.73	22.75	22.66	22.70	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Tune-up limit (dBm)
15	QPSK	1	0	25.53	25.54	25.65	25.62	25.58	26.5
15	QPSK	1	37	25.67	25.74	25.97	25.58	25.80	
15	QPSK	1	74	25.62	25.58	25.63	25.55	25.50	
15	QPSK	36	0	24.67	24.74	24.92	24.70	24.62	
15	QPSK	36	20	24.68	24.92	24.84	24.85	24.93	25.5
15	QPSK	36	39	24.54	24.59	24.63	24.61	24.59	
15	QPSK	75	0	24.55	24.60	24.64	24.54	24.56	
15	16QAM	1	0	24.51	24.52	24.53	24.51	24.47	
15	16QAM	1	37	24.80	24.81	24.82	24.81	24.74	25.5
15	16QAM	1	74	24.45	24.52	24.54	24.45	24.45	
15	16QAM	36	0	23.58	23.62	23.64	23.57	23.62	
15	16QAM	36	20	24.68	24.67	24.71	24.64	24.61	
15	16QAM	36	39	24.57	24.62	24.67	24.61	24.58	25
15	16QAM	75	0	24.55	24.60	24.65	24.55	24.58	
15	64QAM	1	0	23.32	23.31	23.38	23.33	23.32	
15	64QAM	1	37	23.69	23.72	23.73	23.71	23.63	
15	64QAM	1	74	23.30	23.38	23.40	23.31	23.38	24.5
15	64QAM	36	0	22.58	22.53	22.62	22.56	22.58	
15	64QAM	36	20	22.59	22.59	22.65	22.62	22.64	
15	64QAM	36	39	22.61	22.65	22.68	22.66	22.59	
15	64QAM	75	0	22.57	22.64	22.66	22.57	22.61	23.5
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	Tune-up limit (dBm)
10	QPSK	1	0	25.44	25.45	25.56	25.53	25.49	26.5
10	QPSK	1	25	25.58	25.65	25.88	25.49	25.71	
10	QPSK	1	49	25.53	25.49	25.54	25.46	25.41	
10	QPSK	25	0	24.58	24.65	24.83	24.61	24.53	
10	QPSK	25	12	24.59	24.83	24.75	24.76	24.84	25.5
10	QPSK	25	25	24.45	24.50	24.54	24.52	24.50	
10	QPSK	50	0	24.46	24.51	24.55	24.45	24.47	
10	16QAM	1	0	24.42	24.43	24.44	24.42	24.38	
10	16QAM	1	25	24.71	24.72	24.73	24.72	24.65	25.5
10	16QAM	1	49	24.36	24.43	24.45	24.36	24.36	
10	16QAM	25	0	23.49	23.53	23.55	23.48	23.53	
10	16QAM	25	12	24.59	24.58	24.62	24.55	24.52	
10	16QAM	25	25	24.48	24.53	24.58	24.52	24.49	25
10	16QAM	50	0	24.46	24.51	24.56	24.46	24.49	
10	64QAM	1	0	23.23	23.22	23.29	23.24	23.23	
10	64QAM	1	25	23.60	23.63	23.64	23.62	23.54	
10	64QAM	1	49	23.21	23.29	23.31	23.22	23.29	23.5
10	64QAM	25	0	22.49	22.44	22.53	22.47	22.49	
10	64QAM	25	12	22.50	22.50	22.56	22.53	22.55	
10	64QAM	25	25	22.52	22.56	22.59	22.57	22.50	
10	64QAM	50	0	22.48	22.55	22.57	22.48	22.52	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	Tune-up limit (dBm)
5	QPSK	1	0	25.35	25.36	25.47	25.44	25.40	26.5
5	QPSK	1	12	25.49	25.56	25.79	25.40	25.62	
5	QPSK	1	24	25.44	25.40	25.45	25.37	25.32	
5	QPSK	12	0	24.49	24.56	24.74	24.52	24.44	
5	QPSK	12	7	24.50	24.74	24.66	24.67	24.75	25.5
5	QPSK	12	13	24.36	24.41	24.45	24.43	24.41	
5	QPSK	25	0	24.37	24.42	24.46	24.36	24.38	
5	16QAM	1	0	24.33	24.34	24.35	24.33	24.29	
5	16QAM	1	12	24.62	24.63	24.64	24.63	24.56	25.5
5	16QAM	1	24	24.27	24.34	24.36	24.27	24.27	
5	16QAM	12	0	23.40	23.44	23.46	23.39	23.44	
5	16QAM	12	7	24.50	24.49	24.53	24.46	24.43	
5	16QAM	12	13	24.39	24.44	24.49	24.43	24.40	25
5	16QAM	25	0	24.37	24.42	24.47	24.37	24.40	
5	64QAM	1	0	23.14	23.13	23.20	23.15	23.14	
5	64QAM	1	12	23.51	23.54	23.55	23.53	23.45	
5	64QAM	1	24	23.12	23.20	23.22	23.13	23.20	24.5
5	64QAM	12	0	22.40	22.35	22.44	22.38	22.40	
5	64QAM	12	7	22.41	22.41	22.47	22.44	22.46	
5	64QAM	12	13	22.43	22.47	22.50	22.48	22.41	
5	64QAM	25	0	22.39	22.46	22.48	22.39	22.43	23.5

2.4GHz WLAN ANT 1

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	15.34	17.00	18.00	99.67
		CH 6	2437	15.76	17.00	18.00	
		CH 11	2462	15.62	17.00	18.00	
	802.11g 6Mbps	CH 1	2412	12.31	14.00	15.00	97.62
		CH 6	2437	12.65	14.00	15.00	
		CH 11	2462	12.81	14.00	15.00	
	802.11n-HT20 MCS0	CH 1	2412	12.51	14.00	15.00	97.46
		CH 6	2437	12.38	14.00	15.00	
		CH 11	2462	12.80	14.00	15.00	

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	5.61	7.00	3.13	5.00	3.05	5.00
	CH 39	2441	5.64	7.00	2.92	4.50	3.10	5.00
	CH 78	2480	5.34	7.00	2.30	4.00	2.55	4.50
Duty Cycle %			76.85		76.99		77.01	

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	4.48
	CH 19	2440	4.59
	CH 39	2480	4.28
Tune-up Limit			6
Duty Cycle %			61.29

Reduced Power

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.52	28.61	28.54	29.00	19.52	19.61	19.54	20.00
GPRS 1 Tx slot	28.44	28.59	28.52	29.00	19.44	19.59	19.52	20.00
GPRS 2 Tx slots	27.94	28.03	27.97	28.30	21.94	22.03	21.97	22.30
GPRS 3 Tx slots	26.32	26.36	26.24	26.50	22.06	22.10	21.98	22.24
GPRS 4 Tx slots	25.26	25.27	25.22	25.50	22.26	22.27	22.22	22.50
EDGE 1 Tx slot	25.28	25.29	25.26	25.50	16.28	16.29	16.26	16.50
EDGE 2 Tx slots	23.69	23.71	23.66	24.50	17.69	17.71	17.66	18.50
EDGE 3 Tx slots	22.03	22.15	21.96	23.00	17.77	17.89	17.70	18.74
EDGE 4 Tx slots	20.78	20.82	20.73	22.00	17.78	17.82	17.73	19.00
Mode		Max.	28.61			Max.	22.27	
Attenuator								

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
TX Channel	9662	9800	9938		1537	1638	1738	
Rx Channel	9662	9800	9938		1537	1638	1738	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	20.94	20.99	20.92	21.50	19.91	19.95	19.88
3GPP Rel 5	HSDPA Subtest-1	19.80	19.79	19.74	20.50	18.69	18.72	18.83
3GPP Rel 5	HSDPA Subtest-2	19.82	19.76	19.80	20.50	18.66	18.70	18.72
3GPP Rel 5	HSDPA Subtest-3	19.34	19.30	19.26	20.00	18.25	18.20	18.24
3GPP Rel 5	HSDPA Subtest-4	19.33	19.26	19.25	20.00	18.17	18.19	18.22
3GPP Rel 6	HSUPA Subtest-1	19.35	19.28	19.25	20.00	18.22	18.23	18.25
3GPP Rel 6	HSUPA Subtest-2	19.82	19.80	19.75	20.50	18.73	18.98	18.81
3GPP Rel 6	HSUPA Subtest-3	18.84	18.81	18.81	20.00	17.76	17.74	17.81
3GPP Rel 6	HSUPA Subtest-4	19.86	19.80	19.78	20.50	18.68	18.76	18.79
3GPP Rel 6	HSUPA Subtest-5	18.82	18.75	18.79	19.50	17.71	17.73	17.77
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.44	17.39	17.41	18.00	16.29	16.34	16.31
Attenuator								
Mode		Max.	20.99			Max.	19.95	

Band 2 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	22.5
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.21	21.26	21.18	
20	QPSK	1	49	21.38	21.53	21.45	22.5
20	QPSK	1	99	21.09	21.20	21.10	
20	QPSK	50	0	21.48	21.51	21.43	
20	QPSK	50	24	21.40	21.39	21.37	22.5
20	QPSK	50	50	21.33	21.26	21.32	
20	QPSK	100	0	21.25	21.24	21.24	
20	16QAM	1	0	21.40	21.42	21.43	22.5
20	16QAM	1	49	21.43	21.48	21.39	
20	16QAM	1	99	21.32	21.37	21.35	
20	16QAM	50	0	20.92	21.12	20.90	22
20	16QAM	50	24	20.85	21.00	20.81	
20	16QAM	50	50	20.91	20.88	20.79	
20	16QAM	100	0	20.84	20.85	20.88	22
20	64QAM	1	0	20.92	20.83	20.92	
20	64QAM	1	49	21.08	21.22	21.09	
20	64QAM	1	99	20.69	20.75	20.69	21
20	64QAM	50	0	19.68	19.84	19.71	
20	64QAM	50	24	19.72	19.86	19.67	
20	64QAM	50	50	19.82	19.85	19.89	21
20	64QAM	100	0	19.85	19.77	19.87	
Channel				18675	18900	19125	22.5
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.12	21.20	21.08	
15	QPSK	1	37	21.32	21.46	21.37	22.5
15	QPSK	1	74	20.99	21.11	21.04	
15	QPSK	36	0	21.43	21.44	21.36	
15	QPSK	36	20	21.39	21.35	21.34	22.5
15	QPSK	36	39	21.23	21.23	21.30	
15	QPSK	75	0	21.24	21.20	21.23	
15	16QAM	1	0	21.33	21.41	21.37	22.5
15	16QAM	1	37	21.41	21.43	21.30	
15	16QAM	1	74	21.28	21.30	21.33	
15	16QAM	36	0	20.83	21.11	20.86	22
15	16QAM	36	20	20.77	20.91	20.76	
15	16QAM	36	39	20.90	20.83	20.77	
15	16QAM	75	0	20.81	20.78	20.81	22
15	64QAM	1	0	20.84	20.73	20.87	
15	64QAM	1	37	21.05	21.18	21.07	
15	64QAM	1	74	20.68	20.67	20.62	21
15	64QAM	36	0	19.89	20.03	19.91	
15	64QAM	36	20	19.91	19.86	19.91	
15	64QAM	36	39	19.82	19.83	19.85	21
15	64QAM	75	0	19.83	19.80	19.90	
Channel				18650	18900	19150	22.5
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.13	21.18	21.08	
10	QPSK	1	25	21.30	21.51	21.42	22.5
10	QPSK	1	49	21.04	21.14	21.02	
10	QPSK	25	0	21.43	21.42	21.39	
10	QPSK	25	12	21.34	21.33	21.31	22.5
10	QPSK	25	25	21.31	21.23	21.31	
10	QPSK	50	0	21.23	21.18	21.14	
10	16QAM	1	0	21.31	21.39	21.40	22.5
10	16QAM	1	25	21.41	21.44	21.31	
10	16QAM	1	49	21.29	21.33	21.28	
10	16QAM	25	0	20.88	21.06	20.80	22
10	16QAM	25	12	20.84	20.94	20.74	
10	16QAM	25	25	20.83	20.75	20.76	
10	16QAM	50	0	20.74	20.80	20.84	22
10	64QAM	1	0	20.89	20.74	20.90	
10	64QAM	1	25	21.00	21.14	21.04	
10	64QAM	1	49	20.67	20.66	20.63	21
10	64QAM	25	0	19.90	20.02	19.93	
10	64QAM	25	12	19.94	19.90	19.91	
10	64QAM	25	25	19.78	19.82	19.84	21
10	64QAM	50	0	19.84	19.79	19.85	
Channel				18625	18900	19175	22.5
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.19	21.19	21.11	
5	QPSK	1	12	21.31	21.45	21.35	22.5
5	QPSK	1	24	21.07	21.15	21.04	
5	QPSK	12	0	21.40	21.44	21.35	
5	QPSK	12	7	21.35	21.29	21.36	22.5
5	QPSK	12	13	21.23	21.16	21.25	
5	QPSK	25	0	21.18	21.23	21.15	
5	16QAM	1	0	21.32	21.34	21.37	22.5
5	16QAM	1	12	21.42	21.38	21.37	
5	16QAM	1	24	21.26	21.30	21.29	
5	16QAM	12	0	20.51	20.53	20.52	21.5
5	16QAM	12	7	20.44	20.50	20.43	
5	16QAM	12	13	20.50	20.51	20.41	
5	16QAM	25	0	20.43	20.52	20.50	21.5
5	64QAM	1	0	20.51	20.58	20.54	
5	64QAM	1	12	20.67	20.74	20.71	
5	64QAM	1	24	20.28	20.37	20.31	20.5
5	64QAM	12	0	19.54	19.58	19.57	
5	64QAM	12	7	19.58	19.61	19.53	
5	64QAM	12	13	19.46	19.55	19.53	20.5
5	64QAM	25	0	19.49	19.59	19.51	
Channel				18615	18900	19185	22.5
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.16	21.19	21.11	
3	QPSK	1	8	21.30	21.52	21.36	22.5
3	QPSK	1	14	21.04	21.14	21.09	
3	QPSK	8	0	21.39	21.47	21.39	
3	QPSK	8	4	21.31	21.37	21.28	22.5
3	QPSK	8	7	21.23	21.21	21.22	
3	QPSK	15	0	21.23	21.16	21.14	
3	16QAM	1	0	21.35	21.33	21.41	22.5
3	16QAM	1	8	21.37	21.38	21.33	
3	16QAM	1	14	21.24	21.33	21.34	
3	16QAM	8	0	20.83	21.10	20.83	22.5
3	16QAM	8	4	20.76	20.91	20.78	
3	16QAM	8	7	20.83	20.80	20.72	
3	16QAM	15	0	20.83	20.82	20.83	22.5
3	64QAM	1	0	20.83	20.73	20.90	
3	64QAM	1	8	21.05	21.13	21.02	
3	64QAM	1	14	20.62	20.66	20.59	21
3	64QAM	8	0	19.88	20.04	19.96	
3	64QAM	8	4	19.97	19.90	19.91	
3	64QAM	8	7	19.77	19.81	19.93	21
3	64QAM	15	0	19.88	19.79	19.88	

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	21.5
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.20	20.25	20.21	
20	QPSK	1	49	20.43	20.51	20.36	21.5
20	QPSK	1	99	20.02	20.06	20.01	
20	QPSK	50	0	20.42	20.48	20.39	
20	QPSK	50	24	20.29	20.36	20.35	21.5
20	QPSK	50	50	20.26	20.34	20.24	
20	QPSK	100	0	20.30	20.31	20.28	
20	16QAM	1	0	20.32	20.38	20.35	21.5
20	16QAM	1	49	20.42	20.49	20.41	
20	16QAM	1	99	20.33	20.39	20.37	
20	16QAM	50	0	20.24	20.30	20.27	21.5
20	16QAM	50	24	20.27	20.37	20.28	
20	16QAM	50	50	20.35	20.36	20.26	
20	16QAM	100	0	20.24	20.32	20.23	21.5
20	64QAM	1	0	20.28	20.36	20.26	
20	64QAM	1	49	20.49	20.50	20.47	
20	64QAM	1	99	20.23	20.27	20.25	21
20	64QAM	50	0	19.72	19.76	19.68	
20	64QAM	50	24	19.75	19.79	19.73	
20	64QAM	50	50	19.77	19.78	19.72	21
20	64QAM	100	0	19.66	19.76	19.69	
Channel				20025	20175	20325	21.5
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.18	20.17	20.19	
15	QPSK	1	37	20.42	20.45	20.34	21.5
15	QPSK	1	74	19.99	19.96	19.96	
15	QPSK	36	0	20.37	20.40	20.33	
15	QPSK	36	20	20.26	20.27	20.31	21.5
15	QPSK	36	39	20.18	20.30	20.23	
15	QPSK	75	0	20.26	20.21	20.24	
15	16QAM	1	0	20.23	20.28	20.30	21.5
15	16QAM	1	37	20.36	20.48	20.36	
15	16QAM	1	74	20.26	20.31	20.30	
15	16QAM	36	0	20.15	20.25	20.19	21.5
15	16QAM	36	20	20.22	20.36	20.19	
15	16QAM	36	39	20.31	20.28	20.17	
15	16QAM	75	0	20.19	20.23	20.13	21.5
15	64QAM	1	0	20.22	20.34	20.23	
15	64QAM	1	37	20.45	20.48	20.46	
15	64QAM	1	74	20.22	20.17	20.21	21
15	64QAM	36	0	19.65	19.70	19.65	
15	64QAM	36	20	19.67	19.72	19.70	
15	64QAM	36	39	19.70	19.69	19.66	21
15	64QAM	75	0	19.65	19.70	19.62	
Channel				20000	20175	20350	21.5
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.15	20.20	20.17	
10	QPSK	1	25	20.39	20.47	20.27	21.5
10	QPSK	1	49	20.01	20.05	19.92	
10	QPSK	25	0	20.36	20.45	20.35	
10	QPSK	25	12	20.25	20.35	20.27	21.5
10	QPSK	25	25	20.19	20.30	20.15	
10	QPSK	50	0	20.26	20.23	20.20	
10	16QAM	1	0	20.30	20.30	20.32	21.5
10	16QAM	1	25	20.36	20.40	20.34	
10	16QAM	1	49	20.30	20.37	20.31	
10	16QAM	25	0	20.19	20.24	20.18	21.5
10	16QAM	25	12	20.20	20.33	20.22	
10	16QAM	25	25	20.31	20.28	20.21	
10	16QAM	50	0	20.16	20.27	20.20	21.5
10	64QAM	1	0	20.20	20.35	20.21	
10	64QAM	1	25	20.47	20.49	20.45	
10	64QAM	1	49	20.16	20.17	20.17	21
10	64QAM	25	0	19.66	19.74	19.59	
10	64QAM	25	12	19.70	19.71	19.63	
10	64QAM	25	25	19.70	19.68	19.71	21
10	64QAM	50	0	19.56	19.70	19.63	
Channel				19975	20175	20375	21.5
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.16	20.24	20.13	
5	QPSK	1	12	20.38	20.44	20.32	23.5
5	QPSK	1	24	19.95	20.05	19.92	
5	QPSK	12	0	20.35	20.47	20.38	
5	QPSK	12	7	20.23	20.32	20.26	23.5
5	QPSK	12	13	20.20	20.30	20.17	
5	QPSK	25	0	20.23	20.29	20.21	
5	16QAM	1	0	20.27	20.29	20.29	23.5
5	16QAM	1	12	20.35	20.41	20.33	
5	16QAM	1	24	20.30	20.35	20.34	
5	16QAM	12	0	20.14	20.21	20.22	23.5
5	16QAM	12	7	20.25	20.28	20.21	
5	16QAM	12	13	20.29	20.27	20.16	
5	16QAM	25	0	20.18	20.25	20.22	23.5
5	64QAM	1	0	20.27	20.32	20.17	
5	64QAM	1	12	20.49	20.50	20.45	
5	64QAM	1	24	20.13	20.23	20.21	23
5	64QAM	12	0	19.70	19.75	19.62	
5	64QAM	12	7	19.71	19.70	19.69	
5	64QAM	12	13	19.67	19.68	19.62	23
5	64QAM	25	0	19.58	19.72	19.60	
Channel				19965	20175	20385	23.5
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.14	20.18	20.15	
3	QPSK	1	8	20.39	20.47	20.27	23.5
3	QPSK	1	14	19.97	19.96	19.96	
3	QPSK	8	0	20.32	20.38	20.29	
3	QPSK	8	4	20.25	20.31	20.32	23.5
3	QPSK	8	7	20.24	20.25	20.15	
3	QPSK	15	0	20.24	20.26	20.19	
3	16QAM	1	0	20.30	20.32	20.26	23.5
3	16QAM	1	8	20.32	20.43	20.32	
3	16QAM	1	14	20.24	20.32	20.32	
3	16QAM	8	0	20.18	20.22	20.22	23.5
3	16QAM	8	4	20.25	20.29	20.18	
3	16QAM	8	7	20.26	20.34	20.17	
3	16QAM	15	0	20.18	20.28	20.14	23.5
3	64QAM	1	0	20.19	20.30	20.20	
3	64QAM	1	8	20.50	20.51	20.48	
3	64QAM	1	14	20.15	20.22	20.23	23
3	64QAM	8	0	19.62	19.71	19.62	
3	64QAM	8	4	19.69	19.69	19.69	
3	64QAM	8	7	19.68	19.75	19.66	23
3	64QAM	15	0	19.56	19.66	19.67	

Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.17	22.31	22.14	22.5
1.4	QPSK	1	3	22.34	22.49	22.41	
1.4	QPSK	1	5	22.05	22.04	22.06	
1.4	QPSK	3	0	22.32	22.41	22.37	
1.4	QPSK	3	1	22.24	22.26	22.21	
1.4	QPSK	3	3	22.17	22.21	22.16	
1.4	QPSK	6	0	21.31	21.40	21.30	22.5
1.4	16QAM	1	0	21.43	21.50	21.41	22.5
1.4	16QAM	1	3	21.69	21.70	21.65	
1.4	16QAM	1	5	21.48	21.49	21.41	
1.4	16QAM	3	0	21.26	21.28	21.27	
1.4	16QAM	3	1	21.19	21.25	21.18	
1.4	16QAM	3	3	21.25	21.26	21.16	
1.4	16QAM	6	0	20.30	20.39	20.37	21
1.4	64QAM	1	0	20.38	20.45	20.41	21
1.4	64QAM	1	3	20.54	20.61	20.58	
1.4	64QAM	1	5	20.15	20.24	20.18	
1.4	64QAM	3	0	20.29	20.33	20.32	
1.4	64QAM	3	1	20.33	20.36	20.28	
1.4	64QAM	3	3	20.21	20.30	20.28	
1.4	64QAM	6	0	19.36	19.46	19.38	20

Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.83	19.88	19.84	23.5
1.4	QPSK	1	3	20.06	20.14	19.99	
1.4	QPSK	1	5	19.65	19.69	19.64	
1.4	QPSK	3	0	19.05	19.11	19.02	
1.4	QPSK	3	1	18.92	18.99	18.98	
1.4	QPSK	3	3	18.89	18.97	18.87	
1.4	QPSK	6	0	19.93	19.94	19.91	22
1.4	16QAM	1	0	19.95	20.01	19.98	23.5
1.4	16QAM	1	3	20.25	20.32	20.24	
1.4	16QAM	1	5	19.96	20.02	20.00	
1.4	16QAM	3	0	18.87	18.93	18.90	
1.4	16QAM	3	1	18.90	19.00	18.91	
1.4	16QAM	3	3	18.98	18.99	18.89	
1.4	16QAM	6	0	19.87	19.95	19.86	21
1.4	64QAM	1	0	19.91	19.99	19.89	21
1.4	64QAM	1	3	20.22	20.23	20.16	
1.4	64QAM	1	5	19.86	19.90	19.88	
1.4	64QAM	3	0	18.95	18.99	18.91	
1.4	64QAM	3	1	18.98	19.02	18.96	
1.4	64QAM	3	3	19.00	19.01	18.95	
1.4	64QAM	6	0	19.39	19.49	19.42	20

Band 25 (1900MHz Band) (dBm) Part 24E								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				26140	26365	26590		
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	0	21.17	21.31	21.23	22.5	
20	QPSK	1	49	21.57	21.65	21.61		
20	QPSK	1	99	21.20	21.22	21.19		
20	QPSK	50	0	21.46	21.61	21.59		
20	QPSK	50	24	21.28	21.33	21.26	22.5	
20	QPSK	50	50	21.43	21.53	21.48		
20	QPSK	100	0	21.46	21.49	21.47		
20	16QAM	1	0	21.52	21.57	21.54		
20	16QAM	1	49	21.57	21.61	21.54	22.5	
20	16QAM	1	99	21.30	21.31	21.24		
20	16QAM	50	0	20.55	20.66	20.59		
20	16QAM	50	24	20.80	20.77	20.69		
20	16QAM	50	50	20.54	20.66	20.52	22	
20	16QAM	100	0	20.59	20.66	20.57		
20	64QAM	1	0	20.62	20.69	20.65		
20	64QAM	1	49	20.97	21.04	20.89		
20	64QAM	1	99	20.56	20.73	20.58	21	
20	64QAM	50	0	19.76	19.72	19.70		
20	64QAM	50	24	19.74	19.75	19.70		
20	64QAM	50	50	19.59	19.69	19.69		
20	64QAM	100	0	19.54	19.66	19.60		
Channel				26115	26365	26515	Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	0	21.08	21.22	21.14	22.5	
15	QPSK	1	37	21.48	21.56	21.52		
15	QPSK	1	74	21.11	21.13	21.10		
15	QPSK	36	0	21.37	21.52	21.50		
15	QPSK	36	20	21.19	21.24	21.17	22.5	
15	QPSK	36	39	21.04	21.14	21.09		
15	QPSK	75	0	21.07	21.10	21.08		
15	16QAM	1	0	21.13	21.18	21.15		
15	16QAM	1	37	21.48	21.52	21.45	22.5	
15	16QAM	1	74	21.21	21.22	21.15		
15	16QAM	36	0	20.56	20.64	20.54		
15	16QAM	36	20	20.72	20.73	20.67		
15	16QAM	36	39	20.52	20.62	20.53	22	
15	16QAM	75	0	20.51	20.60	20.58		
15	64QAM	1	0	20.57	20.65	20.59		
15	64QAM	1	37	20.89	20.97	20.90		
15	64QAM	1	74	20.55	20.65	20.58	21	
15	64QAM	36	0	19.69	19.72	19.70		
15	64QAM	36	20	19.70	19.76	19.66		
15	64QAM	36	39	19.60	19.67	19.61		
15	64QAM	75	0	19.55	19.65	19.61		
Channel				26900	26365	26640	Tune-up limit (dBm)	
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	0	20.99	21.13	21.05	22.5	
10	QPSK	1	25	21.39	21.47	21.43		
10	QPSK	1	49	21.02	21.04	21.01		
10	QPSK	25	0	21.28	21.43	21.41		
10	QPSK	25	12	21.10	21.15	21.08	22.5	
10	QPSK	25	25	20.95	21.05	21.00		
10	QPSK	50	0	20.98	21.01	20.99		
10	16QAM	1	0	21.04	21.09	21.06		
10	16QAM	1	25	21.39	21.43	21.36	22.5	
10	16QAM	1	49	21.12	21.13	21.06		
10	16QAM	25	0	20.47	20.55	20.45		
10	16QAM	25	12	20.63	20.64	20.58		
10	16QAM	25	25	20.43	20.53	20.44	22	
10	16QAM	50	0	20.42	20.51	20.49		
10	64QAM	1	0	20.48	20.56	20.50		
10	64QAM	1	25	20.80	20.88	20.81		
10	64QAM	1	49	20.46	20.56	20.49	22	
10	64QAM	25	0	19.60	19.63	19.61		
10	64QAM	25	12	19.61	19.67	19.57		
10	64QAM	25	25	19.51	19.58	19.52		
10	64QAM	50	0	19.46	19.56	19.52	21	
Channel				26065	26365	26665		Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	0	20.90	21.04	20.96		22.5
5	QPSK	1	12	21.30	21.38	21.34		
5	QPSK	1	24	20.93	20.95	20.92		
5	QPSK	12	0	21.19	21.34	21.32		
5	QPSK	12	7	21.01	21.06	20.99	22.5	
5	QPSK	12	13	20.86	20.96	20.91		
5	QPSK	25	0	20.89	20.92	20.90		
5	16QAM	1	0	20.95	21.00	20.97		
5	16QAM	1	12	21.30	21.34	21.27	22.5	
5	16QAM	1	24	21.03	21.04	20.97		
5	16QAM	12	0	20.38	20.46	20.36		
5	16QAM	12	7	20.54	20.55	20.49		
5	16QAM	12	13	20.34	20.44	20.35	22	
5	16QAM	25	0	20.33	20.42	20.40		
5	64QAM	1	0	20.39	20.47	20.41		
5	64QAM	1	12	20.71	20.79	20.72		
5	64QAM	1	24	20.37	20.47	20.40	22	
5	64QAM	12	0	19.51	19.54	19.52		
5	64QAM	12	7	19.52	19.58	19.48		
5	64QAM	12	13	19.42	19.49	19.43		
5	64QAM	25	0	19.37	19.47	19.43	21	
Channel				26055	26365	26675		Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5		
3	QPSK	1	0	20.81	20.95	20.87		22.5
3	QPSK	1	8	21.21	21.29	21.25		
3	QPSK	1	14	20.84	20.86	20.83		
3	QPSK	8	0	21.10	21.25	21.23		
3	QPSK	8	4	20.92	20.97	20.90	22.5	
3	QPSK	8	7	20.77	20.87	20.82		
3	QPSK	15	0	20.80	20.83	20.81		
3	16QAM	1	0	20.86	20.91	20.88		
3	16QAM	1	8	21.21	21.25	21.18	22.5	
3	16QAM	1	14	21.44	21.45	21.38		
3	16QAM	8	0	20.29	20.37	20.27		
3	16QAM	8	4	20.45	20.46	20.40		
3	16QAM	8	7	20.25	20.35	20.26	22	
3	16QAM	15	0	20.24	20.33	20.31		
3	64QAM	1	0	20.30	20.38	20.32		
3	64QAM	1	8	20.62	20.70	20.63		
3	64QAM	1	14	20.28	20.38	20.31	22	
3	64QAM	8	0	19.42	19.45	19.43		
3	64QAM	8	4	19.43	19.49	19.39		
3	64QAM	8	7	19.33	19.40	19.34		
3	64QAM	15	0	19.28	19.38	19.34	21	

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.50	20.57	20.47	21.5
20	QPSK	1	49	20.74	20.77	20.69	
20	QPSK	1	99	20.30	20.35	20.33	
20	QPSK	50	0	20.64	20.70	20.69	21.5
20	QPSK	50	24	20.60	20.63	20.58	
20	QPSK	50	50	20.36	20.42	20.41	
20	QPSK	100	0	20.48	20.49	20.45	21.5
20	16QAM	1	0	20.61	20.71	20.61	
20	16QAM	1	49	20.91	20.97	20.88	
20	16QAM	1	99	20.51	20.61	20.56	21.5
20	16QAM	50	0	20.64	20.68	20.65	
20	16QAM	50	24	20.64	20.62	20.62	
20	16QAM	50	50	20.55	20.54	20.56	21.5
20	16QAM	100	0	20.54	20.64	20.51	
20	64QAM	1	0	20.58	20.58	20.56	
20	64QAM	1	49	20.67	20.71	20.69	21.5
20	64QAM	1	99	20.49	20.52	20.40	
20	64QAM	50	0	19.63	19.71	19.59	
20	64QAM	50	24	19.59	19.66	19.60	20.5
20	64QAM	50	50	19.47	19.56	19.51	
20	64QAM	100	0	19.52	19.56	19.57	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.41	20.48	20.38	21.5
15	QPSK	1	37	20.65	20.68	20.60	
15	QPSK	1	74	20.21	20.26	20.24	
15	QPSK	36	0	20.75	20.71	20.70	21.5
15	QPSK	36	20	20.61	20.64	20.59	
15	QPSK	36	39	20.37	20.43	20.42	
15	QPSK	75	0	20.49	20.50	20.46	21.5
15	16QAM	1	0	20.52	20.62	20.52	
15	16QAM	1	37	20.62	20.68	20.59	
15	16QAM	1	74	20.42	20.52	20.47	21.5
15	16QAM	36	0	20.61	20.64	20.63	
15	16QAM	36	20	20.57	20.70	20.61	
15	16QAM	36	39	20.49	20.52	20.52	21.5
15	16QAM	75	0	20.48	20.65	20.57	
15	64QAM	1	0	20.61	20.58	20.65	
15	64QAM	1	37	20.71	20.69	20.64	21.5
15	64QAM	1	74	20.53	20.48	20.43	
15	64QAM	36	0	19.63	19.69	19.62	
15	64QAM	36	20	19.56	19.69	19.62	20.5
15	64QAM	36	39	19.45	19.54	19.53	
15	64QAM	75	0	19.52	19.58	19.54	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.32	20.39	20.29	21.5
10	QPSK	1	25	20.56	20.59	20.51	
10	QPSK	1	49	20.12	20.17	20.15	
10	QPSK	25	0	20.66	20.62	20.61	21.5
10	QPSK	25	12	20.52	20.55	20.50	
10	QPSK	25	25	20.28	20.34	20.33	
10	QPSK	50	0	20.40	20.41	20.37	21.5
10	16QAM	1	0	20.43	20.53	20.43	
10	16QAM	1	25	20.63	20.69	20.60	
10	16QAM	1	49	20.33	20.43	20.38	21.5
10	16QAM	25	0	20.65	20.67	20.64	
10	16QAM	25	12	20.56	20.63	20.64	
10	16QAM	25	25	20.55	20.53	20.54	21.5
10	16QAM	50	0	20.55	20.58	20.58	
10	64QAM	1	0	20.63	20.60	20.56	
10	64QAM	1	25	20.68	20.74	20.64	21.5
10	64QAM	1	49	20.46	20.54	20.42	
10	64QAM	25	0	19.62	19.69	19.60	
10	64QAM	25	12	19.58	19.67	19.62	20.5
10	64QAM	25	25	19.45	19.54	19.51	
10	64QAM	50	0	19.50	19.60	19.57	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.23	20.30	20.20	21.5
5	QPSK	1	12	20.47	20.50	20.42	
5	QPSK	1	24	20.03	20.08	20.06	
5	QPSK	12	0	20.57	20.53	20.52	21.5
5	QPSK	12	7	20.43	20.46	20.41	
5	QPSK	12	13	20.19	20.25	20.24	
5	QPSK	25	0	20.31	20.32	20.28	21.5
5	16QAM	1	0	20.34	20.44	20.34	
5	16QAM	1	12	20.64	20.70	20.61	
5	16QAM	1	24	20.24	20.34	20.29	21.5
5	16QAM	12	0	20.36	20.40	20.37	
5	16QAM	12	7	20.34	20.39	20.31	
5	16QAM	12	13	20.23	20.24	20.30	21.5
5	16QAM	25	0	20.21	20.34	20.24	
5	64QAM	1	0	20.29	20.40	20.38	
5	64QAM	1	12	20.59	20.70	20.55	21.5
5	64QAM	1	24	20.18	20.26	20.17	
5	64QAM	12	0	19.60	19.70	19.63	
5	64QAM	12	7	19.56	19.66	19.60	20.5
5	64QAM	12	13	19.43	19.56	19.50	
5	64QAM	25	0	19.50	19.62	19.57	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.45	20.52	20.42	21.5
3	QPSK	1	8	20.69	20.72	20.64	
3	QPSK	1	14	20.25	20.30	20.28	
3	QPSK	8	0	20.69	20.65	20.64	21.5
3	QPSK	8	4	20.65	20.68	20.63	
3	QPSK	8	7	20.41	20.47	20.46	
3	QPSK	15	0	20.53	20.54	20.50	21.5
3	16QAM	1	0	20.56	20.66	20.56	
3	16QAM	1	8	20.66	20.72	20.63	
3	16QAM	1	14	20.46	20.56	20.51	21.5
3	16QAM	8	0	20.60	20.64	20.61	
3	16QAM	8	4	20.57	20.62	20.53	
3	16QAM	8	7	20.47	20.49	20.54	21.5
3	16QAM	15	0	20.44	20.58	20.49	
3	64QAM	1	0	20.56	20.54	20.54	
3	64QAM	1	8	20.66	20.72	20.61	21.5
3	64QAM	1	14	20.46	20.46	20.34	
3	64QAM	8	0	19.61	19.71	19.61	
3	64QAM	8	4	19.57	19.66	19.60	20.5
3	64QAM	8	7	19.46	19.53	19.53	
3	64QAM	15	0	19.49	19.60	19.53	

Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	20.72	20.86	20.78	22.5
1.4	QPSK	1	3	21.12	21.20	21.16	
1.4	QPSK	1	5	20.75	20.77	20.74	
1.4	QPSK	3	0	20.91	21.06	21.04	
1.4	QPSK	3	1	20.73	20.78	20.71	
1.4	QPSK	3	3	20.58	20.68	20.63	
1.4	QPSK	6	0	20.71	20.74	20.72	22.5
1.4	16QAM	1	0	21.27	21.32	21.29	22.5
1.4	16QAM	1	3	21.62	21.66	21.59	
1.4	16QAM	1	5	21.35	21.36	21.29	
1.4	16QAM	3	0	21.10	21.18	21.08	
1.4	16QAM	3	1	21.26	21.27	21.21	
1.4	16QAM	3	3	21.06	21.16	21.07	
1.4	16QAM	6	0	20.15	20.24	20.22	21
1.4	64QAM	1	0	20.21	20.29	20.23	22.5
1.4	64QAM	1	3	20.53	20.61	20.54	
1.4	64QAM	1	5	20.19	20.29	20.22	
1.4	64QAM	3	0	20.23	20.26	20.24	
1.4	64QAM	3	1	20.24	20.30	20.20	
1.4	64QAM	3	3	20.14	20.21	20.15	
1.4	64QAM	6	0	19.19	19.29	19.25	20

Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.36	20.43	20.33	21.5
1.4	QPSK	1	3	20.60	20.63	20.55	
1.4	QPSK	1	5	20.16	20.21	20.19	
1.4	QPSK	3	0	20.70	20.66	20.65	
1.4	QPSK	3	1	20.56	20.59	20.54	
1.4	QPSK	3	3	20.32	20.38	20.37	
1.4	QPSK	6	0	20.44	20.45	20.41	21.5
1.4	16QAM	1	0	20.47	20.57	20.47	21.5
1.4	16QAM	1	3	20.77	20.83	20.74	
1.4	16QAM	1	5	20.37	20.47	20.42	
1.4	16QAM	3	0	20.56	20.59	20.56	
1.4	16QAM	3	1	20.51	20.57	20.54	
1.4	16QAM	3	3	20.43	20.47	20.46	
1.4	16QAM	6	0	20.44	20.53	20.47	21.5
1.4	64QAM	1	0	20.50	20.54	20.52	21.5
1.4	64QAM	1	3	20.80	20.84	20.78	
1.4	64QAM	1	5	20.40	20.42	20.34	
1.4	64QAM	3	0	20.31	20.40	20.30	
1.4	64QAM	3	1	20.27	20.36	20.29	
1.4	64QAM	3	3	20.14	20.23	20.20	
1.4	64QAM	6	0	19.37	19.45	19.41	20.5