



REPORT No.: SZ22070173S01

## Annex E Conducted Power

**Note:**

Conducted power unit: dBm

The target power was recorded in the manufacture document.

## Full Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	32.47	32.51	32.46	33.50	23.47	23.51	23.46	24.50	0.06
GPRS 1 Tx slot	32.48	32.52	32.47	33.50	23.48	23.52	23.47	24.50	
GPRS 2 Tx slots	30.51	30.58	30.47	31.50	24.51	24.58	24.47	25.50	0.11
GPRS 3 Tx slots	28.66	28.51	28.49	29.50	24.40	24.25	24.23	25.24	0.17
GPRS 4 Tx slots	26.44	26.59	26.53	27.50	23.44	23.59	23.53	24.50	0.15
EDGE 1 Tx slot	27.05	27.11	27.08	28.00	18.05	18.11	18.08	19.00	0.06
EDGE 2 Tx slots	24.96	25.02	24.94	26.00	18.96	19.02	18.94	20.00	0.08
EDGE 3 Tx slots	23.12	23.15	23.10	24.00	18.86	18.89	18.84	19.74	0.05
EDGE 4 Tx slots	21.08	21.22	21.15	22.00	18.08	18.22	18.15	19.00	0.14
Mode		Max.	32.52			Max.	24.58		
Attenuator	Cable Loss : 0.6								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	29.52	29.62	29.53	30.50	20.52	20.62	20.53	21.50	0.11
GPRS 1 Tx slot	29.54	29.63	29.55	30.50	20.54	20.63	20.55	21.50	
GPRS 2 Tx slots	27.48	27.59	27.45	28.50	21.48	21.59	21.45	22.50	0.14
GPRS 3 Tx slots	25.60	25.58	25.56	26.50	21.34	21.32	21.30	22.24	0.04
GPRS 4 Tx slots	23.55	23.61	23.54	24.50	20.55	20.61	20.54	21.50	0.07
EDGE 1 Tx slot	26.24	26.25	26.21	27.00	17.24	17.25	17.21	18.00	0.04
EDGE 2 Tx slots	24.42	24.36	24.26	25.00	18.42	18.36	18.26	19.00	0.16
EDGE 3 Tx slots	22.02	22.05	22.07	23.00	17.76	17.79	17.81	18.74	0.05
EDGE 4 Tx slots	20.11	20.22	20.15	21.00	17.11	17.22	17.15	18.00	0.11
Mode		Max.	29.63			Max.	21.59		
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)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	RMC 12.2Kbps	23.24	23.36	23.21	24.00	23.06	23.11	23.04	24.00	23.46	23.55	23.48	24.50
3GPP Rel 6	HSDPA Subtest-1	22.93	22.85	22.90	23.50	22.70	22.69	22.65	23.50	22.78	22.70	22.70	23.50
3GPP Rel 6	HSDPA Subtest-2	22.66	22.54	22.56	23.50	22.74	22.65	22.64	23.50	22.37	22.55	22.43	23.50
3GPP Rel 6	HSDPA Subtest-3	22.75	22.68	22.77	23.50	22.72	22.61	22.59	23.50	22.08	22.26	22.14	23.50
3GPP Rel 6	HSDPA Subtest-4	22.43	22.35	22.42	23.50	22.75	22.62	22.62	23.50	22.00	22.18	22.08	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.86	22.82	22.88	23.50	22.42	22.43	22.30	23.50	23.31	23.31	23.35	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.85	22.81	22.86	23.50	22.45	22.41	22.35	23.50	23.32	23.36	23.37	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.81	22.80	22.84	23.50	22.45	22.40	22.37	23.50	23.37	23.39	23.34	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.83	22.81	22.85	23.50	22.46	22.40	22.38	23.50	23.38	23.36	23.37	24.00
3GPP Rel 6	HSUPA Subtest-1	22.81	22.73	22.85	23.50	22.60	22.56	22.57	23.50	23.11	23.23	23.11	24.00
3GPP Rel 6	HSUPA Subtest-2	22.82	22.69	22.83	23.50	22.57	22.58	22.55	23.50	23.22	23.39	23.36	24.00
3GPP Rel 6	HSUPA Subtest-3	22.77	22.79	22.80	23.50	22.57	22.51	22.55	23.50	23.20	23.30	23.36	24.00
3GPP Rel 6	HSUPA Subtest-4	22.81	22.70	22.80	23.50	22.51	22.55	22.50	23.50	23.11	23.36	23.30	24.00
3GPP Rel 6	HSUPA Subtest-5	22.79	22.77	22.79	23.50	22.56	22.52	22.55	23.50	23.22	23.39	23.34	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.73	22.81	22.78	23.50	22.55	22.38	22.45	23.50	23.38	23.22	23.29	24.00
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6		
Mode		Max.	23.36			Max.	23.11			Max.	23.55		



3	16QAM	1	0	21.29	21.20	21.14	22.5
3	16QAM	1	8	21.33	21.27	21.23	
3	16QAM	1	14	21.26	21.23	21.11	
3	16QAM	8	0	21.37	21.50	21.42	22.5
3	16QAM	8	4	21.44	21.41	21.47	
3	16QAM	8	7	21.34	21.39	21.42	
3	16QAM	15	0	21.37	21.41	21.36	22.5
3	64QAM	1	0	21.22	21.15	21.18	
3	64QAM	1	8	21.64	21.63	21.23	
3	64QAM	1	14	21.25	21.61	21.25	22.5
3	64QAM	8	0	21.17	21.19	21.03	
3	64QAM	8	4	21.27	21.17	21.17	
3	64QAM	8	7	21.37	21.26	21.12	22.5
3	64QAM	15	0	21.22	21.22	21.20	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.47	22.50	22.45	23.5
1.4	QPSK	1	3	22.37	22.35	22.34	
1.4	QPSK	1	5	22.34	22.32	22.30	
1.4	QPSK	3	0	22.34	22.34	22.30	
1.4	QPSK	3	1	22.38	22.35	22.33	
1.4	QPSK	3	3	22.40	22.44	22.33	
1.4	QPSK	6	0	21.43	21.41	21.40	22.5
1.4	16QAM	1	0	21.46	21.46	21.40	22.5
1.4	16QAM	1	3	21.42	21.62	21.60	
1.4	16QAM	1	5	21.30	21.50	21.18	
1.4	16QAM	3	0	21.32	21.37	21.34	
1.4	16QAM	3	1	21.50	21.32	21.37	
1.4	16QAM	3	3	21.52	21.49	21.23	
1.4	16QAM	6	0	21.53	21.46	21.41	22.5
1.4	64QAM	1	0	21.41	21.33	21.36	22.5
1.4	64QAM	1	3	21.43	21.64	21.62	
1.4	64QAM	1	5	21.41	21.76	21.35	
1.4	64QAM	3	0	21.44	21.50	21.51	
1.4	64QAM	3	1	21.53	21.50	21.71	
1.4	64QAM	3	3	21.45	21.59	21.36	
1.4	64QAM	6	0	21.50	21.53	21.42	22.5

3	16QAM	1	0	21.37	21.46	21.50	22.5
3	16QAM	1	8	21.59	21.59	21.33	
3	16QAM	1	14	21.50	21.28	21.36	
3	16QAM	8	0	21.29	21.30	21.39	22.5
3	16QAM	8	4	21.39	21.39	21.40	
3	16QAM	8	7	21.61	21.69	21.73	
3	16QAM	15	0	21.61	21.59	21.66	22.5
3	64QAM	1	0	21.28	21.37	21.35	
3	64QAM	1	8	21.47	21.35	21.51	
3	64QAM	1	14	21.28	21.35	21.18	22.5
3	64QAM	8	0	21.26	21.30	21.24	
3	64QAM	8	4	21.36	21.36	21.40	
3	64QAM	8	7	21.32	21.39	21.51	22.5
3	64QAM	15	0	21.47	21.55	21.46	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.52	22.57	22.55	23.5
1.4	QPSK	1	3	22.46	22.46	22.50	
1.4	QPSK	1	5	22.32	22.41	22.43	
1.4	QPSK	3	0	22.40	22.37	22.36	
1.4	QPSK	3	1	22.36	22.46	22.51	
1.4	QPSK	3	3	22.35	22.42	22.41	
1.4	QPSK	6	0	21.51	21.53	21.49	22.5
1.4	16QAM	1	0	21.26	21.73	21.39	22.5
1.4	16QAM	1	3	21.39	21.47	21.51	
1.4	16QAM	1	5	21.45	21.61	21.41	
1.4	16QAM	3	0	21.48	21.52	21.43	
1.4	16QAM	3	1	21.49	21.52	21.54	
1.4	16QAM	3	3	21.48	21.60	21.49	
1.4	16QAM	6	0	21.39	21.40	21.31	22.5
1.4	64QAM	1	0	21.17	21.11	21.25	22.5
1.4	64QAM	1	3	21.43	21.41	21.53	
1.4	64QAM	1	5	21.34	21.30	21.14	
1.4	64QAM	3	0	21.25	21.23	21.42	
1.4	64QAM	3	1	21.16	21.31	21.28	
1.4	64QAM	3	3	21.22	21.39	21.27	
1.4	64QAM	6	0	21.21	21.22	21.29	22.5





3	16QAM	1	0	22.02	22.43	22.19	23
3	16QAM	1	8	22.35	22.29	22.28	
3	16QAM	1	14	22.39	22.28	21.98	
3	16QAM	8	0	22.20	22.20	22.11	23
3	16QAM	8	4	22.23	22.22	22.28	
3	16QAM	8	7	22.15	22.30	22.24	
3	16QAM	15	0	22.25	22.23	22.19	23
3	64QAM	1	0	22.56	22.46	22.56	
3	64QAM	1	8	22.58	22.36	22.46	
3	64QAM	1	14	22.23	22.49	22.56	23
3	64QAM	8	0	22.35	22.34	22.47	
3	64QAM	8	4	22.45	22.41	22.42	
3	64QAM	8	7	22.34	22.28	22.32	23
3	64QAM	15	0	22.36	22.38	22.35	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.02	22.93	22.94	24
1.4	QPSK	1	3	23.08	23.10	23.10	
1.4	QPSK	1	5	23.00	22.88	23.04	
1.4	QPSK	3	0	22.99	22.92	22.99	
1.4	QPSK	3	1	22.96	23.02	22.93	
1.4	QPSK	3	3	22.97	22.93	22.85	
1.4	QPSK	6	0	22.46	22.31	22.50	23
1.4	16QAM	1	0	22.33	22.33	22.53	23
1.4	16QAM	1	3	22.33	22.42	22.54	
1.4	16QAM	1	5	22.16	22.36	22.24	
1.4	16QAM	3	0	22.11	22.08	22.34	
1.4	16QAM	3	1	22.20	22.10	22.22	
1.4	16QAM	3	3	22.21	22.22	22.16	
1.4	16QAM	6	0	22.10	22.01	22.02	23
1.4	64QAM	1	0	22.61	22.46	22.62	23
1.4	64QAM	1	3	22.34	22.43	22.43	
1.4	64QAM	1	5	22.31	22.31	22.42	
1.4	64QAM	3	0	22.40	22.38	22.40	
1.4	64QAM	3	1	22.39	22.43	22.47	
1.4	64QAM	3	3	22.39	22.32	22.34	
1.4	64QAM	6	0	22.29	22.39	22.40	23

### Band 38(only on channel required) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.12	23.19	23.16	24
20	QPSK	1	49	23.11	23.13	23.13	
20	QPSK	1	99	23.03	23.09	23.06	
20	QPSK	50	0	22.23	22.45	22.31	23
20	QPSK	50	24	22.16	22.23	22.19	
20	QPSK	50	50	22.20	22.25	22.19	
20	QPSK	100	0	22.08	22.19	22.22	23
20	16QAM	1	0	22.20	22.20	22.13	
20	16QAM	1	49	22.19	21.79	22.19	
20	16QAM	1	99	22.35	22.34	22.45	23
20	16QAM	50	0	22.20	22.34	21.95	
20	16QAM	50	24	22.31	22.13	22.04	
20	16QAM	50	50	22.30	21.94	21.98	23
20	16QAM	100	0	22.31	22.34	22.00	
20	64QAM	1	0	21.47	21.75	21.78	
20	64QAM	1	49	21.47	21.66	21.76	23
20	64QAM	1	99	21.49	21.76	21.80	
20	64QAM	50	0	21.48	21.47	21.36	
20	64QAM	50	24	21.50	21.46	21.45	23
20	64QAM	50	50	21.48	21.25	21.47	
20	64QAM	100	0	21.48	21.44	21.35	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.09	23.09	23.10	24
15	QPSK	1	37	23.10	23.02	23.13	
15	QPSK	1	74	22.91	23.13	23.10	
15	QPSK	36	0	22.22	22.47	22.51	23
15	QPSK	36	20	22.36	22.45	22.41	
15	QPSK	36	39	22.43	22.41	22.34	
15	QPSK	75	0	22.31	22.31	22.32	23
15	16QAM	1	0	22.39	22.41	22.31	
15	16QAM	1	37	22.41	22.45	22.13	
15	16QAM	1	74	22.42	22.32	22.12	23
15	16QAM	36	0	22.19	22.15	22.04	
15	16QAM	36	20	22.17	22.31	22.08	
15	16QAM	36	39	22.19	22.21	22.06	23
15	16QAM	75	0	22.15	22.10	22.04	
15	64QAM	1	0	21.61	21.50	21.66	
15	64QAM	1	37	21.49	21.50	21.48	23
15	64QAM	1	74	21.44	21.52	21.69	
15	64QAM	36	0	21.38	21.51	21.44	
15	64QAM	36	20	21.64	21.50	21.38	23
15	64QAM	36	39	21.48	21.48	21.49	
15	64QAM	75	0	21.66	21.48	21.52	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.12	23.13	23.13	24
10	QPSK	1	25	23.12	22.92	23.12	
10	QPSK	1	49	23.06	23.08	23.11	
10	QPSK	25	0	22.21	22.07	22.07	23
10	QPSK	25	12	22.41	22.37	22.08	
10	QPSK	25	25	22.42	22.44	22.04	
10	QPSK	50	0	22.43	22.35	22.07	23
10	16QAM	1	0	22.29	22.06	22.37	
10	16QAM	1	25	22.17	22.07	22.47	
10	16QAM	1	49	22.54	22.10	22.19	23
10	16QAM	25	0	22.04	22.15	22.11	
10	16QAM	25	12	22.34	22.04	22.17	
10	16QAM	25	25	22.04	22.18	22.23	23
10	16QAM	50	0	22.16	22.20	22.12	
10	64QAM	1	0	21.51	21.54	21.47	
10	64QAM	1	25	21.42	21.67	21.57	23
10	64QAM	1	49	21.78	21.52	21.57	
10	64QAM	25	0	21.37	21.37	21.47	
10	64QAM	25	12	21.37	21.57	21.58	23
10	64QAM	25	25	21.33	21.53	21.49	
10	64QAM	50	0	21.39	21.55	21.45	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.07	23.08	23.11	24
5	QPSK	1	12	22.92	23.13	23.11	
5	QPSK	1	24	22.92	22.91	22.90	
5	QPSK	12	0	22.34	22.82	22.41	23
5	QPSK	12	7	22.48	22.47	22.47	
5	QPSK	12	13	22.36	22.38	22.40	
5	QPSK	25	0	22.40	22.41	22.07	23
5	16QAM	1	0	22.58	22.69	22.59	
5	16QAM	1	12	22.19	22.37	22.07	
5	16QAM	1	24	22.19	22.20	22.19	23
5	16QAM	12	0	22.20	22.25	22.19	
5	16QAM	12	7	22.19	22.21	22.19	
5	16QAM	12	13	22.10	22.22	22.19	23
5	16QAM	25	0	22.37	22.09	22.27	
5	64QAM	1	0	21.48	21.81	21.42	
5	64QAM	1	12	21.75	21.75	21.82	23
5	64QAM	1	24	21.75	21.75	21.72	
5	64QAM	12	0	21.43	21.55	21.51	
5	64QAM	12	7	21.52	21.53	21.44	23
5	64QAM	12	13	21.51	21.54	21.41	
5	64QAM	25	0	21.55	21.57	21.48	



### Band 41 (2535~2655MHz) (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				40140	40390	40640	40890	41140	
Frequency (MHz)				2545	2570	2595	2620	2645	
20	QPSK	1	0	23.02	23.12	23.14	23.07	23.08	24
20	QPSK	1	49	22.98	23.07	23.07	23.08	23.08	
20	QPSK	1	99	22.92	23.08	23.03	23.13	22.88	
20	QPSK	50	0	22.18	22.20	22.24	22.22	22.17	
20	QPSK	50	24	22.18	22.16	22.01	21.98	21.98	23
20	QPSK	50	50	22.21	22.14	22.06	22.05	22.12	
20	QPSK	100	0	22.18	22.21	22.12	22.06	22.02	
20	16QAM	1	0	22.22	22.38	22.05	22.12	22.02	
20	16QAM	1	49	22.21	22.26	22.05	22.00	22.02	23
20	16QAM	1	99	22.28	22.18	22.12	22.10	22.12	
20	16QAM	50	0	22.19	22.28	22.05	22.35	22.02	
20	16QAM	50	24	22.17	22.49	22.02	22.12	22.02	
20	16QAM	50	50	22.23	22.55	22.48	22.09	22.12	23
20	16QAM	100	0	22.17	22.48	22.43	22.12	22.01	
20	64QAM	1	0	22.60	22.51	22.51	22.34	22.30	
20	64QAM	1	49	22.53	22.63	22.33	22.62	22.30	
20	64QAM	1	99	22.43	22.38	22.29	22.38	22.26	23
20	64QAM	50	0	22.39	22.35	22.32	22.27	22.36	
20	64QAM	50	24	22.24	22.51	22.39	22.36	22.29	
20	64QAM	50	50	22.34	22.50	22.53	22.42	22.35	
20	64QAM	100	0	22.32	22.60	22.56	22.24	22.36	
Channel				40115	40378	40640	40903	41165	
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5	
15	QPSK	1	0	22.68	22.84	23.04	22.91	22.90	24
15	QPSK	1	37	22.67	23.02	23.08	22.91	23.01	
15	QPSK	1	74	22.67	23.00	23.01	22.84	22.81	
15	QPSK	36	0	21.84	22.18	22.03	22.23	22.84	
15	QPSK	36	20	22.09	22.23	22.03	22.19	22.91	23
15	QPSK	36	39	22.25	22.26	22.02	22.22	22.86	
15	QPSK	75	0	22.03	22.28	22.05	22.25	22.83	
15	16QAM	1	0	21.97	22.09	22.42	22.03	22.22	
15	16QAM	1	37	22.18	22.26	21.99	22.09	22.23	23
15	16QAM	1	74	22.14	22.18	21.56	21.93	21.85	
15	16QAM	36	0	22.01	22.25	21.96	22.12	22.30	
15	16QAM	36	20	22.06	22.19	21.92	22.08	22.32	
15	16QAM	36	39	22.13	22.32	22.42	22.12	22.08	23
15	16QAM	75	0	22.04	22.33	21.90	22.12	21.68	
15	64QAM	1	0	22.42	22.32	22.56	22.20	22.70	
15	64QAM	1	37	22.70	22.46	22.70	22.33	21.82	
15	64QAM	1	74	22.67	22.39	22.49	22.67	21.55	23
15	64QAM	36	0	22.11	22.45	22.27	22.41	22.19	
15	64QAM	36	20	22.26	22.56	22.71	22.34	22.20	
15	64QAM	36	39	22.21	22.55	22.68	22.40	22.29	
15	64QAM	75	0	22.19	22.56	22.68	22.44	22.21	
Channel				40090	40365	40640	40915	41190	
Frequency (MHz)				2540	2567.5	2595	2622.5	2650	
10	QPSK	1	0	22.72	22.93	23.01	22.89	22.88	24
10	QPSK	1	25	22.92	22.98	22.88	22.84	22.83	
10	QPSK	1	49	22.69	22.85	23.08	23.08	22.84	
10	QPSK	25	0	22.00	22.43	22.31	22.27	22.08	
10	QPSK	25	12	22.08	22.42	22.20	22.27	22.08	23
10	QPSK	25	25	22.12	22.51	22.15	22.31	22.44	
10	QPSK	50	0	22.17	22.55	22.23	22.29	21.68	
10	16QAM	1	0	22.03	21.94	22.09	22.34	21.88	
10	16QAM	1	25	22.21	22.03	22.24	22.17	21.92	23
10	16QAM	1	49	22.07	21.99	22.16	22.30	22.07	
10	16QAM	25	0	22.07	22.02	22.30	22.48	21.73	
10	16QAM	25	12	22.20	21.99	22.16	22.42	21.49	
10	16QAM	25	25	22.17	22.06	22.28	22.55	22.00	23
10	16QAM	50	0	22.15	21.98	22.22	22.40	21.76	
10	64QAM	1	0	22.05	22.41	22.01	22.35	22.41	
10	64QAM	1	25	22.08	22.53	22.18	22.40	22.36	
10	64QAM	1	49	22.06	22.42	22.05	22.31	22.17	23
10	64QAM	25	0	22.13	22.56	22.26	22.44	22.33	
10	64QAM	25	12	22.16	22.53	22.15	22.44	22.08	
10	64QAM	25	25	22.25	22.57	22.24	22.41	22.31	
10	64QAM	50	0	22.21	22.54	22.29	22.50	22.37	
Channel				40085	40353	40640	40928	41215	
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5	
5	QPSK	1	0	22.81	22.78	23.01	22.98	22.79	24
5	QPSK	1	12	22.80	22.93	22.88	23.01	22.83	
5	QPSK	1	24	22.93	22.84	22.98	22.71	22.84	
5	QPSK	12	0	22.02	22.16	22.20	22.29	22.00	
5	QPSK	12	7	22.10	22.29	22.53	22.35	22.22	23
5	QPSK	12	13	22.04	22.29	22.27	22.41	22.28	
5	QPSK	25	0	22.07	22.30	22.28	22.43	22.21	
5	16QAM	1	0	22.31	22.13	22.29	21.96	22.12	
5	16QAM	1	12	21.92	22.30	22.46	22.14	22.02	23
5	16QAM	1	24	21.78	22.16	22.27	21.99	22.28	
5	16QAM	12	0	21.96	21.91	22.13	22.11	22.08	
5	16QAM	12	7	22.08	21.86	22.23	22.22	22.21	
5	16QAM	12	13	22.14	21.99	22.13	22.15	22.00	23
5	16QAM	25	0	22.49	22.48	22.20	22.29	22.37	
5	64QAM	1	0	22.61	22.46	22.73	22.28	22.31	
5	64QAM	1	12	22.61	22.47	22.66	22.37	22.27	
5	64QAM	1	24	22.46	22.32	22.59	22.23	22.60	23
5	64QAM	12	0	22.41	22.50	22.19	22.31	22.27	
5	64QAM	12	7	22.42	22.12	22.41	22.49	22.35	
5	64QAM	12	13	22.40	22.11	22.20	22.37	22.26	
5	64QAM	25	0	22.14	22.11	22.26	22.46	22.08	

## 2.4GHz WLAN ANT 1

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	16.87	18.50	16.00	100.00
		CH 6	2437	16.31	18.00	17.00	
		CH 11	2462	16.19	18.00	16.00	
	802.11g 6Mbps	CH 1	2412	11.40	13.00	12.00	98.57
		CH 6	2437	15.72	17.50	16.00	
		CH 11	2462	11.75	13.50	10.00	
	802.11n-HT20 MCS0	CH 1	2412	12.14	14.00	12.00	97.97
		CH 6	2437	14.53	16.50	15.00	
		CH 11	2462	10.75	12.50	10.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	6.06	3.66	3.68
	CH 39	2441	7.05	3.20	3.17
	CH 78	2480	5.62	3.20	3.15
Tune-up Limit			9	5	5
Duty Cycle %			77.2	77.2	76.8

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	0.39
	CH 19	2440	0.21
	CH 39	2480	0.24
Tune-up Limit			2
Duty Cycle %			62.81

## Reduced Power

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	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	28.62	28.53	29.50	19.52	19.62	19.53	20.50	0.11
GPRS 1 Tx slot	28.54	28.63	28.55	29.50	19.54	19.63	19.55	20.50	
GPRS 2 Tx slots	26.48	26.59	26.45	27.50	20.48	20.59	20.45	21.50	0.14
GPRS 3 Tx slots	24.60	24.58	24.56	25.50	20.34	20.32	20.30	21.24	0.04
GPRS 4 Tx slots	22.55	22.61	22.54	23.50	19.55	19.61	19.54	20.50	0.07
EDGE 1 Tx slot	25.24	25.25	25.21	26.00	16.24	16.25	16.21	17.00	0.04
EDGE 2 Tx slots	23.42	23.36	23.26	24.00	17.42	17.36	17.26	18.00	0.16
EDGE 3 Tx slots	21.02	21.05	21.07	22.00	16.76	16.79	16.81	17.74	0.05
EDGE 4 Tx slots	19.11	19.22	19.15	20.00	16.11	16.22	16.15	17.00	0.11
Mode		Max.	28.63			Max.	20.59		
Attenuator	Cable Loss : 0.8								

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	20.24	20.36	20.21	21.00	21.06	21.11	21.04	22.00
3GPP Rel 6 HSDPA Subtest-1	19.93	19.85	19.90	20.50	20.70	20.69	20.65	21.50
3GPP Rel 6 HSDPA Subtest-2	19.66	19.54	19.56	20.50	20.74	20.65	20.64	21.50
3GPP Rel 6 HSDPA Subtest-3	19.75	19.68	19.77	20.50	20.72	20.61	20.59	21.50
3GPP Rel 6 HSDPA Subtest-4	19.43	19.35	19.42	20.50	20.75	20.62	20.62	21.50
3GPP Rel 8 DC-HSDPA Subtest-1	19.86	19.82	19.88	20.50	20.42	20.43	20.30	21.50
3GPP Rel 8 DC-HSDPA Subtest-2	19.85	19.81	19.86	20.50	20.45	20.41	20.35	21.50
3GPP Rel 8 DC-HSDPA Subtest-3	19.81	19.80	19.84	20.50	20.45	20.40	20.37	21.50
3GPP Rel 8 DC-HSDPA Subtest-4	19.83	19.81	19.85	20.50	20.46	20.40	20.38	21.50
3GPP Rel 6 HSUPA Subtest-1	19.81	19.73	19.85	20.50	20.60	20.56	20.57	21.50
3GPP Rel 6 HSUPA Subtest-2	19.82	19.69	19.83	20.50	20.57	20.58	20.55	21.50
3GPP Rel 6 HSUPA Subtest-3	19.77	19.79	19.80	20.50	20.57	20.51	20.55	21.50
3GPP Rel 6 HSUPA Subtest-4	19.81	19.70	19.80	20.50	20.51	20.55	20.50	21.50
3GPP Rel 6 HSUPA Subtest-5	19.79	19.77	19.79	20.50	20.56	20.52	20.55	21.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	19.73	19.81	19.78	20.50	20.55	20.38	20.45	21.50
Attenuator		Cable Loss	0.8			Cable Loss	0.8	
Mode		Max.	20.36			Max.	21.11	



3	16QAM	1	0	17.79	17.70	17.64	19
3	16QAM	1	8	17.83	17.77	17.73	
3	16QAM	1	14	17.76	17.73	17.61	
3	16QAM	8	0	17.87	18.00	17.92	19
3	16QAM	8	4	17.94	17.91	17.97	
3	16QAM	8	7	17.84	17.89	17.92	
3	16QAM	15	0	17.87	17.91	17.86	19
3	64QAM	1	0	17.72	17.65	17.68	
3	64QAM	1	8	18.14	18.13	17.73	
3	64QAM	1	14	17.75	18.11	17.75	19
3	64QAM	8	0	17.87	17.69	17.53	
3	64QAM	8	4	17.77	17.67	17.67	
3	64QAM	8	7	17.87	17.76	17.62	19
3	64QAM	15	0	17.72	17.72	17.70	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.97	19.00	18.95	20
1.4	QPSK	1	3	18.87	18.85	18.84	
1.4	QPSK	1	5	18.84	18.82	18.80	
1.4	QPSK	3	0	18.84	18.84	18.80	
1.4	QPSK	3	1	18.88	18.85	18.83	
1.4	QPSK	3	3	18.90	18.94	18.83	
1.4	QPSK	6	0	17.93	17.91	17.90	19
1.4	16QAM	1	0	17.96	17.96	17.90	
1.4	16QAM	1	3	17.92	18.12	18.10	
1.4	16QAM	1	5	17.80	18.00	17.68	19
1.4	16QAM	3	0	17.82	17.87	17.84	
1.4	16QAM	3	1	18.00	17.82	17.87	
1.4	16QAM	3	3	18.02	17.99	17.73	19
1.4	16QAM	6	0	18.03	17.96	17.91	
1.4	64QAM	1	0	17.91	17.83	17.86	
1.4	64QAM	1	3	17.93	18.14	18.02	19
1.4	64QAM	1	5	17.91	18.26	17.85	
1.4	64QAM	3	0	17.94	18.00	18.01	
1.4	64QAM	3	1	18.03	18.00	18.21	
1.4	64QAM	3	3	17.95	18.09	17.86	
1.4	64QAM	6	0	18.00	18.03	17.92	

3	16QAM	1	0	19.87	19.96	20.00	21
3	16QAM	1	8	20.09	20.09	19.83	
3	16QAM	1	14	20.00	19.78	19.86	
3	16QAM	8	0	19.79	19.80	19.89	21
3	16QAM	8	4	19.89	19.89	19.90	
3	16QAM	8	7	20.11	20.19	20.23	
3	16QAM	15	0	20.11	20.09	20.16	21
3	64QAM	1	0	19.78	19.87	19.85	
3	64QAM	1	8	19.97	19.85	20.01	
3	64QAM	1	14	19.78	19.85	19.68	21
3	64QAM	8	0	19.76	19.80	19.74	
3	64QAM	8	4	19.86	19.86	19.90	
3	64QAM	8	7	19.82	19.89	20.01	21
3	64QAM	15	0	19.97	20.05	19.96	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.02	21.07	21.05	22
1.4	QPSK	1	3	20.96	20.96	21.00	
1.4	QPSK	1	5	20.82	20.91	20.93	
1.4	QPSK	3	0	20.90	20.87	20.86	
1.4	QPSK	3	1	20.86	20.96	21.01	
1.4	QPSK	3	3	20.85	20.92	20.91	
1.4	QPSK	6	0	20.01	20.03	19.99	21
1.4	16QAM	1	0	19.76	20.23	19.89	
1.4	16QAM	1	3	19.89	19.97	20.01	
1.4	16QAM	1	5	19.95	20.11	19.91	21
1.4	16QAM	3	0	19.98	20.02	19.93	
1.4	16QAM	3	1	19.99	20.02	20.04	
1.4	16QAM	3	3	19.98	20.10	19.99	21
1.4	16QAM	6	0	19.89	19.90	19.81	
1.4	64QAM	1	0	19.67	19.61	19.75	
1.4	64QAM	1	3	19.93	19.91	20.03	21
1.4	64QAM	1	5	19.84	19.80	19.64	
1.4	64QAM	3	0	19.75	19.73	19.92	
1.4	64QAM	3	1	19.66	19.81	19.78	
1.4	64QAM	3	3	19.72	19.89	19.77	
1.4	64QAM	6	0	19.71	19.72	19.79	

## 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	20.61	20.67	20.65	21.5
20	QPSK	1	49	20.46	20.45	20.41	
20	QPSK	1	99	20.39	20.38	20.41	
20	QPSK	50	0	19.73	19.80	19.76	20.5
20	QPSK	50	24	19.54	19.56	19.69	
20	QPSK	50	50	19.58	19.66	19.54	
20	QPSK	100	0	19.56	19.56	19.49	20.5
20	16QAM	1	0	19.61	19.85	19.65	
20	16QAM	1	49	19.66	19.72	19.83	
20	16QAM	1	99	19.66	19.84	19.63	20.5
20	16QAM	50	0	19.78	19.75	19.72	
20	16QAM	50	24	19.67	19.67	19.68	
20	16QAM	50	50	19.64	19.56	19.52	20.5
20	16QAM	100	0	19.60	19.63	19.69	
20	64QAM	1	0	19.93	19.70	20.03	
20	64QAM	1	49	19.70	20.03	20.02	20.5
20	64QAM	1	99	19.93	20.05	20.13	
20	64QAM	50	0	19.89	19.79	19.92	
20	64QAM	50	24	19.83	19.77	19.89	20.5
20	64QAM	50	50	19.85	19.73	19.79	
20	64QAM	100	0	19.84	19.84	19.82	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.59	20.63	20.61	21.5
15	QPSK	1	37	20.63	20.59	20.57	
15	QPSK	1	74	20.57	20.53	20.51	
15	QPSK	36	0	19.67	19.64	19.68	20.5
15	QPSK	36	20	19.67	19.59	19.69	
15	QPSK	36	39	19.53	19.58	19.55	
15	QPSK	75	0	19.62	19.66	19.59	20.5
15	16QAM	1	0	19.61	19.48	19.78	
15	16QAM	1	37	19.48	19.78	19.71	
15	16QAM	1	74	19.58	19.48	19.48	20.5
15	16QAM	36	0	19.79	19.79	19.70	
15	16QAM	36	20	19.82	19.61	19.67	
15	16QAM	36	39	19.74	19.89	19.83	20.5
15	16QAM	75	0	19.84	19.82	19.78	
15	64QAM	1	0	20.15	20.05	20.15	
15	64QAM	1	37	20.17	19.95	20.05	20.5
15	64QAM	1	74	19.82	20.08	20.15	
15	64QAM	36	0	19.94	19.93	20.06	
15	64QAM	36	20	20.04	20.00	20.01	20.5
15	64QAM	36	39	19.93	19.87	19.91	
15	64QAM	75	0	19.95	19.97	19.94	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.62	20.62	20.63	21.5
10	QPSK	1	25	20.52	20.50	20.58	
10	QPSK	1	49	20.66	20.54	20.44	
10	QPSK	25	0	19.98	19.91	19.96	20.5
10	QPSK	25	12	19.95	20.14	19.92	
10	QPSK	25	25	19.91	19.87	19.79	
10	QPSK	50	0	19.99	19.84	20.03	20.5
10	16QAM	1	0	19.91	19.91	20.11	
10	16QAM	1	25	19.91	20.00	20.12	
10	16QAM	1	49	19.74	19.94	19.82	20.5
10	16QAM	25	0	19.75	19.92	19.80	
10	16QAM	25	12	19.74	19.94	19.85	
10	16QAM	25	25	19.65	19.70	19.70	20.5
10	16QAM	50	0	19.81	19.85	19.86	
10	64QAM	1	0	19.98	19.98	19.65	
10	64QAM	1	25	19.65	19.78	19.68	20.5
10	64QAM	1	49	19.65	19.65	19.65	
10	64QAM	25	0	19.98	19.96	19.98	
10	64QAM	25	12	19.97	20.01	20.05	20.5
10	64QAM	25	25	19.97	19.90	19.92	
10	64QAM	50	0	19.87	19.97	19.98	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.51	20.54	20.59	21.5
5	QPSK	1	12	20.54	20.54	20.53	
5	QPSK	1	24	20.62	20.52	20.58	
5	QPSK	12	0	19.67	19.69	19.65	20.5
5	QPSK	12	7	19.69	19.77	19.70	
5	QPSK	12	13	19.55	19.61	19.62	
5	QPSK	25	0	19.65	19.66	19.65	20.5
5	16QAM	1	0	20.14	19.83	19.84	
5	16QAM	1	12	19.77	20.06	20.01	
5	16QAM	1	24	19.89	19.78	20.13	20.5
5	16QAM	12	0	19.78	19.89	19.85	
5	16QAM	12	7	19.95	19.87	19.99	
5	16QAM	12	13	19.86	19.80	19.87	20.5
5	16QAM	25	0	19.87	19.89	19.81	
5	64QAM	1	0	19.65	20.05	19.85	
5	64QAM	1	12	19.95	19.95	19.95	20.5
5	64QAM	1	24	19.78	19.82	19.78	
5	64QAM	12	0	20.02	19.77	19.98	
5	64QAM	12	7	20.10	19.69	20.00	20.5
5	64QAM	12	13	19.93	20.05	20.00	
5	64QAM	25	0	20.00	20.08	19.95	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.58	20.49	20.48	21.5
3	QPSK	1	8	20.45	20.46	20.54	
3	QPSK	1	14	20.36	20.17	20.47	
3	QPSK	8	0	19.93	19.90	19.94	20.5
3	QPSK	8	4	19.88	19.80	19.90	
3	QPSK	8	7	19.74	19.79	19.76	
3	QPSK	15	0	19.83	19.87	19.80	

3	16QAM	1	0	19.52	19.93	19.69	20.5
3	16QAM	1	8	19.85	19.79	19.78	
3	16QAM	1	14	19.89	19.78	19.48	
3	16QAM	8	0	19.70	19.70	19.61	20.5
3	16QAM	8	4	19.73	19.72	19.78	
3	16QAM	8	7	19.65	19.80	19.74	
3	16QAM	15	0	19.75	19.73	19.69	
3	64QAM	1	0	20.06	19.96	20.06	20.5
3	64QAM	1	8	20.08	19.86	19.96	
3	64QAM	1	14	19.73	19.99	20.06	
3	64QAM	8	0	19.85	19.84	19.97	20.5
3	64QAM	8	4	19.95	19.91	19.92	
3	64QAM	8	7	19.84	19.78	19.82	
3	64QAM	15	0	19.86	19.88	19.85	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.52	20.43	20.44	21.5
1.4	QPSK	1	3	20.58	20.60	20.60	
1.4	QPSK	1	5	20.50	20.38	20.54	
1.4	QPSK	3	0	20.49	20.42	20.49	
1.4	QPSK	3	1	20.46	20.52	20.43	
1.4	QPSK	3	3	20.47	20.43	20.35	
1.4	QPSK	6	0	19.96	19.81	20.00	20.5
1.4	16QAM	1	0	19.83	19.83	20.03	20.5
1.4	16QAM	1	3	19.83	19.92	20.04	
1.4	16QAM	1	5	19.66	19.86	19.74	
1.4	16QAM	3	0	19.61	19.58	19.84	
1.4	16QAM	3	1	19.70	19.60	19.72	
1.4	16QAM	3	3	19.71	19.72	19.66	
1.4	16QAM	6	0	19.60	19.51	19.52	20.5
1.4	64QAM	1	0	20.11	19.96	20.12	20.5
1.4	64QAM	1	3	19.84	19.93	19.93	
1.4	64QAM	1	5	19.81	19.81	19.92	
1.4	64QAM	3	0	19.90	19.88	19.90	
1.4	64QAM	3	1	19.89	19.93	19.97	
1.4	64QAM	3	3	19.89	19.82	19.84	
1.4	64QAM	6	0	19.79	19.89	19.90	20.5

**2.4GHz WLAN ANT 1**

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	15.87	17.50	15.00	100.00
		CH 6	2437	15.31	17.00	16.00	
		CH 11	2462	15.19	17.00	15.00	
	802.11g 6Mbps	CH 1	2412	10.40	12.00	11.00	98.57
		CH 6	2437	14.72	16.50	15.00	
		CH 11	2462	10.75	12.50	9.00	
	802.11n-HT20 MCS0	CH 1	2412	11.14	13.00	11.00	97.97
		CH 6	2437	13.53	15.50	14.00	
		CH 11	2462	9.75	11.50	9.00	