



REPORT No.: SZ21100256S01

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)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.45	32.37	32.29	33.50	23.45	23.37	23.29	24.50
GPRS 1 Tx slot	32.42	32.31	32.20	33.50	23.42	23.31	23.20	24.50
GPRS 2 Tx slots	30.21	30.11	30.02	31.00	24.21	24.11	24.02	25.00
GPRS 3 Tx slots	28.33	28.24	28.14	29.00	24.07	23.98	23.88	24.74
GPRS 4 Tx slots	26.79	26.70	26.63	27.50	23.79	23.70	23.63	24.50
EDGE 1 Tx slot	25.44	25.58	25.53	26.50	16.44	16.58	16.53	17.50
EDGE 2 Tx slots	24.24	24.68	24.52	25.50	18.24	18.68	18.52	19.50
EDGE 3 Tx slots	21.62	22.10	22.01	22.50	17.36	17.84	17.75	18.24
EDGE 4 Tx slots	18.80	19.25	19.16	20.00	15.80	16.25	16.16	17.00
Mode		Max.	32.45			Max.	24.21	
Attenuator	Cable Loss : 0.6							

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	28.85	28.65	28.45	29.50	19.85	19.65	19.45	20.50
GPRS 1 Tx slot	28.88	28.61	28.39	29.50	19.88	19.61	19.39	20.50
GPRS 2 Tx slots	26.48	26.25	26.00	27.00	20.48	20.25	20.00	21.00
GPRS 3 Tx slots	24.89	24.63	24.42	25.50	20.63	20.37	20.16	21.24
GPRS 4 Tx slots	22.78	22.58	22.34	23.50	19.78	19.58	19.34	20.50
EDGE 1 Tx slot	24.97	25.42	25.35	26.00	15.97	16.42	16.35	17.00
EDGE 2 Tx slots	22.96	23.39	23.41	24.00	16.96	17.39	17.41	18.00
EDGE 3 Tx slots	20.68	21.14	21.01	21.50	16.42	16.88	16.75	17.24
EDGE 4 Tx slots	18.58	19.05	18.93	19.50	15.58	16.05	15.93	16.50
Mode		Max.	28.88			Max.	20.63	
Attenuator	Cable Loss : 0.8							

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)
TX Channel	Rx Channel	9262	9400	9538		1312	1413	1513	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	20.04	19.97	19.90	20.50	22.01	21.89	21.83	22.50
3GPP Rel 6	HSDPA Subtest-1	19.40	19.51	19.59	20.50	21.48	21.26	21.39	22.00
3GPP Rel 6	HSDPA Subtest-2	19.05	19.13	19.23	20.50	21.47	21.25	21.35	22.00
3GPP Rel 6	HSDPA Subtest-3	19.21	19.37	19.45	20.00	21.45	21.22	21.30	22.00
3GPP Rel 6	HSDPA Subtest-4	18.87	19.02	19.12	20.00	21.46	21.23	21.31	22.00
3GPP Rel 6	HSUPA Subtest-1	19.16	19.25	19.46	19.50	21.38	21.15	21.26	22.00
3GPP Rel 6	HSUPA Subtest-2	19.15	19.26	19.44	19.50	21.45	21.12	21.20	22.00
3GPP Rel 6	HSUPA Subtest-3	19.10	19.24	19.39	19.50	21.43	21.14	21.19	22.00
3GPP Rel 6	HSUPA Subtest-4	19.11	19.25	19.42	19.50	21.42	21.11	21.19	22.00
3GPP Rel 6	HSUPA Subtest-5	19.12	19.27	19.40	19.50	21.43	21.13	21.20	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.17	19.26	19.42	19.50	21.39	21.15	21.20	22.00
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	20.04			Max.	22.01	

Band		WCDMA Band V			Tune-up Limit (dBm)
TX Channel	Rx Channel	4132	4182	4233	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	22.39	22.17	22.33	23.50
3GPP Rel 6	HSDPA Subtest-1	21.43	21.88	21.77	22.50
3GPP Rel 6	HSDPA Subtest-2	21.19	21.64	21.50	22.50
3GPP Rel 6	HSDPA Subtest-3	20.88	21.32	21.21	22.00
3GPP Rel 6	HSDPA Subtest-4	20.79	21.63	21.12	22.00
3GPP Rel 6	HSUPA Subtest-1	22.14	22.31	22.22	23.00
3GPP Rel 6	HSUPA Subtest-2	22.13	22.23	22.36	23.00
3GPP Rel 6	HSUPA Subtest-3	22.13	22.31	22.28	23.00
3GPP Rel 6	HSUPA Subtest-4	22.08	22.21	22.29	23.00
3GPP Rel 6	HSUPA Subtest-5	22.14	22.26	22.27	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.12	22.35	22.30	23.00
Attenuator			Cable Loss	0.6	
Mode			Max.	22.39	

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Low Channel, Middle Channel, High Channel, Tune-up limit (dBm). Title: Band 2 (1900MHz Band) Part 24E.

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Low Channel, Middle Channel, High Channel, Tune-up limit (dBm). Title: Band 4 (AWS Band) Part 27L (only on channel required).

Band 12 (700MHz Low Band) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.86	22.88	22.85	23.5
10	QPSK	1	25	22.57	22.68	22.61	
10	QPSK	1	49	22.51	22.59	22.84	
10	QPSK	25	0	21.64	21.96	21.78	22.5
10	QPSK	25	12	21.75	21.83	21.49	
10	QPSK	25	25	21.80	21.94	21.60	
10	QPSK	50	0	21.77	21.81	21.48	22.5
10	16QAM	1	0	22.09	21.94	21.96	
10	16QAM	1	25	21.88	22.33	21.87	
10	16QAM	1	49	22.27	22.20	22.28	21.5
10	16QAM	25	0	20.67	20.78	20.76	
10	16QAM	25	12	21.13	20.65	21.04	
10	16QAM	25	25	20.69	21.04	20.79	21.5
10	16QAM	50	0	21.08	20.61	20.98	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.61	22.81	22.80	23.5
5	QPSK	1	12	22.52	22.63	22.56	
5	QPSK	1	24	22.46	22.54	22.79	
5	QPSK	12	0	21.59	21.91	21.73	22.5
5	QPSK	12	7	21.70	21.78	21.44	
5	QPSK	12	13	21.75	21.89	21.55	
5	QPSK	25	0	21.72	21.76	21.43	22.5
5	16QAM	1	0	22.04	21.89	21.91	
5	16QAM	1	12	21.83	22.28	21.82	
5	16QAM	1	24	22.22	22.15	22.23	21.5
5	16QAM	12	0	20.62	20.73	20.71	
5	16QAM	12	7	21.08	20.60	20.99	
5	16QAM	12	13	20.64	20.99	20.74	21.5
5	16QAM	25	0	21.03	20.56	20.93	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.64	22.84	22.63	23.5
3	QPSK	1	8	22.55	22.66	22.59	
3	QPSK	1	14	22.49	22.57	22.82	
3	QPSK	8	0	21.62	21.94	21.76	22.5
3	QPSK	8	4	21.73	21.81	21.47	
3	QPSK	8	7	21.78	21.92	21.58	
3	QPSK	15	0	21.75	21.79	21.46	22.5
3	16QAM	1	0	22.07	21.92	21.94	
3	16QAM	1	8	21.86	22.31	21.85	
3	16QAM	1	14	22.25	22.18	22.26	21.5
3	16QAM	8	0	20.65	20.76	20.74	
3	16QAM	8	4	21.11	20.63	21.02	
3	16QAM	8	7	20.67	21.02	20.77	21.5
3	16QAM	15	0	21.06	20.59	20.96	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.56	22.76	22.55	23.5
1.4	QPSK	1	3	22.47	22.58	22.51	
1.4	QPSK	1	5	22.41	22.49	22.74	
1.4	QPSK	3	0	21.54	21.86	21.68	22.5
1.4	QPSK	3	1	21.65	21.73	21.39	
1.4	QPSK	3	3	21.70	21.84	21.50	
1.4	QPSK	6	0	21.67	21.71	21.38	22.5
1.4	16QAM	1	0	21.99	21.84	21.86	
1.4	16QAM	1	3	21.78	22.23	21.77	
1.4	16QAM	1	5	22.17	22.10	22.18	22.5
1.4	16QAM	3	0	20.57	20.68	20.66	
1.4	16QAM	3	1	21.03	20.55	20.94	
1.4	16QAM	3	3	20.59	20.94	20.89	21.5
1.4	16QAM	6	0	20.98	20.51	20.88	

Band 17 (700MHz Band) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.42	22.91	22.69	23.5
10	QPSK	1	25	22.56	22.54	22.73	
10	QPSK	1	49	22.74	22.72	22.89	
10	QPSK	25	0	21.62	21.90	21.82	22.5
10	QPSK	25	12	21.54	21.45	21.85	
10	QPSK	25	25	21.48	21.58	21.86	
10	QPSK	50	0	21.73	21.78	21.62	22.5
10	16QAM	1	0	22.22	22.15	22.10	
10	16QAM	1	25	22.06	22.07	22.37	
10	16QAM	1	49	22.37	22.18	22.41	21.5
10	16QAM	25	0	20.61	20.66	20.67	
10	16QAM	25	12	20.63	20.10	21.09	
10	16QAM	25	25	20.68	20.93	20.86	21.5
10	16QAM	50	0	20.60	21.03	21.04	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.37	22.86	22.64	23.5
5	QPSK	1	12	22.51	22.49	22.68	
5	QPSK	1	24	22.69	22.67	22.84	
5	QPSK	12	0	21.57	21.85	21.77	22.5
5	QPSK	12	7	21.49	21.40	21.80	
5	QPSK	12	13	21.43	21.53	21.81	
5	QPSK	25	0	21.68	21.73	21.57	22.5
5	16QAM	1	0	22.17	22.10	22.05	
5	16QAM	1	12	22.01	22.02	22.32	
5	16QAM	1	24	22.32	22.13	22.36	21.5
5	16QAM	12	0	20.56	20.61	20.62	
5	16QAM	12	7	20.58	21.05	21.04	
5	16QAM	12	13	20.63	20.88	20.81	21.5
5	16QAM	25	0	20.55	20.98	20.99	

Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.57	22.80	22.71	23.5
20	QPSK	1	49	22.45	22.38	22.38	
20	QPSK	1	99	22.47	22.34	22.35	
20	QPSK	50	0	21.68	21.73	21.46	22.5
20	QPSK	50	24	21.52	21.39	21.50	
20	QPSK	50	50	21.65	21.24	21.57	
20	QPSK	100	0	21.29	21.71	21.56	22.5
20	16QAM	1	0	22.28	22.18	22.14	
20	16QAM	1	49	22.25	22.07	22.02	
20	16QAM	1	99	22.15	21.85	21.96	21.5
20	16QAM	50	0	20.72	20.64	20.34	
20	16QAM	50	24	20.84	20.58	20.41	
20	16QAM	50	50	20.43	20.47	20.76	21.5
20	16QAM	100	0	20.57	20.63	20.14	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.54	22.77	22.68	23.5
15	QPSK	1	37	22.42	22.35	22.35	
15	QPSK	1	74	22.44	22.31	22.32	
15	QPSK	36	0	21.65	21.70	21.43	22.5
15	QPSK	36	20	21.49	21.36	21.47	
15	QPSK	36	39	21.62	21.21	21.54	
15	QPSK	75	0	21.26	21.68	21.53	22.5
15	16QAM	1	0	22.25	22.15	22.11	
15	16QAM	1	37	22.22	22.04	21.99	
15	16QAM	1	74	22.12	21.82	21.93	21.5
15	16QAM	36	0	20.69	20.61	20.31	
15	16QAM	36	20	20.81	20.55	20.38	
15	16QAM	36	39	20.40	20.44	20.73	21.5
15	16QAM	75	0	20.54	20.60	20.11	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.49	22.72	22.63	23.5
10	QPSK	1	25	22.37	22.30	22.30	
10	QPSK	1	49	22.39	22.26	22.27	
10	QPSK	25	0	21.60	21.65	21.38	22.5
10	QPSK	25	12	21.44	21.31	21.42	
10	QPSK	25	25	21.57	21.16	21.49	
10	QPSK	50	0	21.21	21.63	21.48	22.5
10	16QAM	1	0	22.20	22.10	22.06	
10	16QAM	1	25	22.17	21.99	21.94	
10	16QAM	1	49	22.07	21.77	21.88	21.5
10	16QAM	25	0	20.64	20.56	20.26	
10	16QAM	25	12	20.76	20.50	20.33	
10	16QAM	25	25	20.35	20.39	20.68	21.5
10	16QAM	50	0	20.49	20.55	20.06	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.46	22.69	22.60	23.5
5	QPSK	1	12	22.34	22.27	22.27	
5	QPSK	1	24	22.36	22.23	22.24	
5	QPSK	12	0	21.57	21.62	21.35	22.5
5	QPSK	12	7	21.41	21.28	21.39	
5	QPSK	12	13	21.54	21.13	21.46	
5	QPSK	25	0	21.18	21.60	21.45	22.5
5	16QAM	1	0	22.17	22.07	22.03	
5	16QAM	1	12	22.14	21.96	21.91	
5	16QAM	1	24	22.04	21.74	21.85	21.5
5	16QAM	12	0	20.61	20.53	20.23	
5	16QAM	12	7	20.73	20.47	20.30	
5	16QAM	12	13	20.32	20.36	20.65	21.5
5	16QAM	25	0	20.46	20.52	20.03	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.41	22.64	22.55	23.5
3	QPSK	1	8	22.29	22.22	22.22	
3	QPSK	1	14	22.31	22.18	22.19	
3	QPSK	8	0	21.52	21.57	21.30	22.5
3	QPSK	8	4	21.36	21.23	21.34	
3	QPSK	8	7	21.49	21.08	21.41	
3	QPSK	15	0	21.13	21.55	21.40	22.5
3	16QAM	1	0	22.12	22.02	21.98	
3	16QAM	1	8	22.09	21.91	21.86	
3	16QAM	1	14	21.99	21.69	21.80	21.5
3	16QAM	8	0	20.56	20.48	20.18	
3	16QAM	8	4	20.68	20.42	20.25	
3	16QAM	8	7	20.27	20.31	20.60	21.5
3	16QAM	15	0	20.41	20.47	19.98	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.38	22.61	22.52	23.5
1.4	QPSK	1	3	22.26	22.19	22.19	
1.4	QPSK	1	5	22.28	22.15	22.16	
1.4	QPSK	3	0	21.49	21.54	21.27	22.5
1.4	QPSK	3	1	21.33	21.20	21.31	
1.4	QPSK	3	3	21.46	21.05	21.38	
1.4	QPSK	6	0	21.10	21.52	21.37	22.5
1.4	16QAM	1	0	22.09	21.99	21.95	
1.4	16QAM	1	3	22.06	21.88	21.83	
1.4	16QAM	1	5	21.96	21.66	21.77	22.5
1.4	16QAM	3	0	20.53	20.45	20.15	
1.4	16QAM	3	1	20.65	20.39	20.22	
1.4	16QAM	3	3	20.24	20.28	20.57	21.5
1.4	16QAM	6	0	20.38	20.44	19.95	

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	11.71	12.00	10.00	98.18
		CH 7	2442	12.43	13.00	10.00	
		CH 13	2472	12.19	12.50	10.00	
	802.11g 6Mbps	CH 1	2412	11.13	11.50	10.00	91.81
		CH 7	2442	11.18	11.50	10.00	
		CH 13	2472	11.15	11.50	10.00	
	802.11n-HT20 MCS0	CH 1	2412	11.66	12.00	10.00	91.51
		CH 7	2442	11.79	12.00	10.00	
		CH 13	2472	11.45	12.00	10.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	6.45	5.58	5.52
	CH 39	2441	5.87	4.67	4.57
	CH 78	2480	5.90	4.57	4.77
Duty Cycle %			77.60	77.07	77.33
Tune-up Limit			7	6	6

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	-1.10
	CH 19	2440	-0.95
	CH 39	2480	-1.50
Duty Cycle %			31.65
Tune-up Limit			-1

Reduced Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	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	28.30	28.22	28.14	28.50	19.30	19.22	19.14	19.50
GPRS 1 Tx slot	28.27	28.16	28.05	28.50	19.27	19.16	19.05	19.50
GPRS 2 Tx slots	26.06	25.96	25.87	26.50	20.06	19.96	19.87	20.50
GPRS 3 Tx slots	24.18	24.09	23.99	24.50	19.92	19.83	19.73	20.24
GPRS 4 Tx slots	22.64	22.55	22.48	23.00	19.64	19.55	19.48	20.00
EDGE 1 Tx slot	21.29	21.43	21.38	22.00	12.29	12.43	12.38	13.00
EDGE 2 Tx slots	20.09	20.53	20.37	21.00	14.09	14.53	14.37	15.00
EDGE 3 Tx slots	17.47	17.95	17.86	18.00	13.21	13.69	13.60	13.74
EDGE 4 Tx slots	15.00	15.10	15.01	15.50	12.00	12.10	12.01	12.50
Mode		Max.	28.30			Max.	20.06	
Attenuator	Cable Loss : 0.6							

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	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	20.87	20.90	20.70	21.50	11.87	11.90	11.70	12.50
GPRS 1 Tx slot	20.86	20.86	20.64	21.50	11.86	11.86	11.64	12.50
GPRS 2 Tx slots	18.73	18.50	18.25	19.00	12.73	12.50	12.25	13.00
GPRS 3 Tx slots	17.14	16.88	16.67	17.50	12.88	12.62	12.41	13.24
GPRS 4 Tx slots	15.03	14.83	14.59	15.50	12.03	11.83	11.59	12.50
EDGE 1 Tx slot	17.22	17.67	17.60	18.00	8.22	8.67	8.60	9.00
EDGE 2 Tx slots	15.21	15.64	15.66	16.50	9.21	9.64	9.66	10.50
EDGE 3 Tx slots	12.93	13.39	13.26	14.00	8.67	9.13	9.00	9.74
EDGE 4 Tx slots	11.48	11.30	11.18	12.00	8.48	8.30	8.18	9.00
Mode		Max.	20.90			Max.	12.88	
Attenuator	Cable Loss : 0.8							

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)
TX Channel	Rx Channel	9262	9400	9538		1312	1413	1513	
	Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	12.62	12.55	12.48	13.00	13.91	13.79	13.73	14.50
3GPP Rel 6	HSDPA Subtest-1	11.98	12.09	12.17	13.00	13.38	13.16	13.29	13.50
3GPP Rel 6	HSDPA Subtest-2	11.63	11.71	11.81	12.50	13.37	13.15	13.25	13.50
3GPP Rel 6	HSDPA Subtest-3	11.79	11.95	12.03	12.50	13.35	13.12	13.20	13.50
3GPP Rel 6	HSDPA Subtest-4	11.45	11.60	11.70	12.50	13.36	13.13	13.21	13.50
3GPP Rel 6	HSUPA Subtest-1	11.74	11.83	12.04	12.50	13.28	13.05	13.16	13.50
3GPP Rel 6	HSUPA Subtest-2	11.73	11.84	12.02	12.50	13.35	13.02	13.10	13.50
3GPP Rel 6	HSUPA Subtest-3	11.68	11.82	11.97	12.50	13.33	13.04	13.09	13.50
3GPP Rel 6	HSUPA Subtest-4	11.69	11.83	12.00	12.50	13.32	13.01	13.09	13.50
3GPP Rel 6	HSUPA Subtest-5	11.70	11.85	11.98	12.50	13.33	13.03	13.10	13.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	11.75	11.84	12.00	12.50	13.29	13.05	13.10	13.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	12.62			Max.	13.91	

Band		WCDMA Band V			Tune-up Limit (dBm)
TX Channel	Rx Channel	4132	4182	4233	
	Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	20.15	20.03	20.09	21.00
3GPP Rel 6	HSDPA Subtest-1	19.23	19.68	19.57	20.50
3GPP Rel 6	HSDPA Subtest-2	18.99	19.44	19.30	20.50
3GPP Rel 6	HSDPA Subtest-3	18.68	19.12	19.01	20.00
3GPP Rel 6	HSDPA Subtest-4	18.59	19.43	18.92	20.00
3GPP Rel 6	HSUPA Subtest-1	19.94	20.11	20.02	21.00
3GPP Rel 6	HSUPA Subtest-2	19.93	20.03	20.06	21.00
3GPP Rel 6	HSUPA Subtest-3	19.93	20.11	20.08	21.00
3GPP Rel 6	HSUPA Subtest-4	19.88	20.01	20.09	21.00
3GPP Rel 6	HSUPA Subtest-5	19.94	20.06	20.07	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.92	20.01	20.10	21.00
Attenuator			Cable Loss	0.6	
Mode			Max.	20.15	

Band 5 (Cellular Band) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	20.28	20.69	20.84	21.5
10	QPSK	1	25	20.18	20.39	20.17	
10	QPSK	1	49	20.21	20.22	20.21	
10	QPSK	25	0	19.35	19.59	19.24	20.5
10	QPSK	25	12	19.22	19.16	19.21	
10	QPSK	25	25	19.53	19.55	19.06	
10	QPSK	50	0	19.19	19.23	19.21	20.5
10	16QAM	1	0	19.56	19.75	19.99	
10	16QAM	1	25	19.57	19.72	19.59	
10	16QAM	1	49	19.63	19.58	19.77	19.5
10	16QAM	25	0	18.58	18.12	18.12	
10	16QAM	25	12	18.60	18.54	18.22	
10	16QAM	25	25	18.53	18.36	18.18	19.5
10	16QAM	50	0	18.59	18.51	18.26	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	20.24	20.63	20.61	
5	QPSK	1	12	20.15	20.36	20.14	
5	QPSK	1	24	20.18	20.19	20.18	
5	QPSK	12	0	19.32	19.53	19.21	20.5
5	QPSK	12	7	19.19	19.13	19.18	
5	QPSK	12	13	19.50	19.52	19.03	
5	QPSK	25	0	19.16	19.20	19.18	20.5
5	16QAM	1	0	19.53	19.72	19.96	
5	16QAM	1	12	19.54	19.69	19.56	
5	16QAM	1	24	19.60	19.55	19.74	19.5
5	16QAM	12	0	18.55	18.09	18.09	
5	16QAM	12	7	18.57	18.51	18.19	
5	16QAM	12	13	18.50	18.33	18.15	19.5
5	16QAM	25	0	18.55	18.48	18.23	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	20.19	20.57	20.55	
3	QPSK	1	8	20.09	20.30	20.08	
3	QPSK	1	14	20.12	20.13	20.12	
3	QPSK	8	0	19.26	19.47	19.15	20.5
3	QPSK	8	4	19.13	19.07	19.12	
3	QPSK	8	7	19.44	19.46	18.97	
3	QPSK	15	0	19.10	19.14	19.12	20.5
3	16QAM	1	0	19.47	19.66	19.90	
3	16QAM	1	8	19.48	19.63	19.50	
3	16QAM	1	14	19.54	19.49	19.68	19.5
3	16QAM	8	0	18.49	18.03	18.03	
3	16QAM	8	4	18.51	18.45	18.13	
3	16QAM	8	7	18.44	18.27	18.09	19.5
3	16QAM	15	0	18.50	18.42	18.17	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	20.16	20.54	20.52	
1.4	QPSK	1	3	20.06	20.27	20.05	
1.4	QPSK	1	5	20.09	20.10	20.09	
1.4	QPSK	3	0	19.23	19.44	19.12	19.5
1.4	QPSK	3	1	19.10	19.04	19.09	
1.4	QPSK	3	3	19.41	19.43	18.94	
1.4	QPSK	6	0	19.07	19.11	19.09	20.5
1.4	16QAM	1	0	19.44	19.63	19.87	
1.4	16QAM	1	3	19.45	19.60	19.47	
1.4	16QAM	1	5	19.51	19.46	19.65	20.5
1.4	16QAM	3	0	18.46	18.00	18.00	
1.4	16QAM	3	1	18.48	18.42	18.10	
1.4	16QAM	3	3	18.41	18.24	18.06	19.5
1.4	16QAM	6	0	18.47	18.39	18.14	

Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	19.70	19.89	19.41	20.5
20	QPSK	1	49	19.57	19.54	19.70	
20	QPSK	1	99	19.81	19.59	19.67	
20	QPSK	50	0	18.68	19.08	18.76	19.5
20	QPSK	50	24	18.65	18.57	18.62	
20	QPSK	50	50	18.96	18.61	18.63	
20	QPSK	100	0	18.62	18.66	18.61	19.5
20	16QAM	1	0	19.19	19.07	19.04	
20	16QAM	1	49	19.34	19.37	19.09	
20	16QAM	1	99	19.51	19.14	19.06	18.5
20	16QAM	50	0	17.80	17.75	17.83	
20	16QAM	50	24	17.87	17.68	17.86	
20	16QAM	50	50	17.95	18.06	17.75	18.5
20	16QAM	100	0	17.74	17.67	17.82	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.67	19.82	19.38	
15	QPSK	1	37	19.54	19.51	19.67	
15	QPSK	1	74	19.78	19.56	19.64	
15	QPSK	36	0	18.65	19.01	18.73	19.5
15	QPSK	36	20	18.62	18.94	18.59	
15	QPSK	36	39	18.93	18.58	18.60	
15	QPSK	75	0	18.59	18.63	18.58	19.5
15	16QAM	1	0	19.16	19.04	19.01	
15	16QAM	1	37	19.31	19.34	19.06	
15	16QAM	1	74	19.48	19.11	19.03	19.5
15	16QAM	36	0	17.77	17.72	17.80	
15	16QAM	36	20	17.84	17.65	17.83	
15	16QAM	36	39	17.92	18.03	17.72	18.5
15	16QAM	75	0	17.71	17.64	17.79	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	19.64	19.79	19.35	
10	QPSK	1	25	19.51	19.48	19.64	
10	QPSK	1	49	19.75	19.53	19.61	
10	QPSK	25	0	18.62	18.98	18.70	19.5
10	QPSK	25	12	18.59	18.91	18.56	
10	QPSK	25	25	18.90	18.55	18.57	
10	QPSK	50	0	18.56	18.60	18.55	19.5
10	16QAM	1	0	19.13	19.01	18.98	
10	16QAM	1	25	19.28	19.31	19.03	
10	16QAM	1	49	19.45	19.08	19.00	18.5
10	16QAM	25	0	17.74	17.69	17.77	
10	16QAM	25	12	17.81	17.62	17.80	
10	16QAM	25	25	17.89	18.00	17.69	18.5
10	16QAM	50	0	17.68	17.61	17.76	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	19.59	19.74	19.30	
5	QPSK	1	12	19.46	19.43	19.59	
5	QPSK	1	24	19.70	19.48	19.56	
5	QPSK	12	0	18.57	18.93	18.65	19.5
5	QPSK	12	7	18.54	18.86	18.51	
5	QPSK	12	13	18.85	18.50	18.52	
5	QPSK	25	0	18.51	18.55	18.50	19.5
5	16QAM	1	0	19.08	18.96	18.93	
5	16QAM	1	12	19.23	19.26	18.98	
5	16QAM	1	24	19.40	19.03	18.95	19.5
5	16QAM	12	0	17.69	17.64	17.72	
5	16QAM	12	7	17.76	17.57	17.75	
5	16QAM	12	13	17.84	17.95	17.64	18.5
5	16QAM	25	0	17.63	17.56	17.71	

Band 12 (700MHz Low Band) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	20.89	21.09	21.09	21.5
10	QPSK	1	25	20.77	20.88	20.81	
10	QPSK	1	49	20.71	20.79	21.04	
10	QPSK	25	0	19.87	20.19	20.01	20.5
10	QPSK	25	12	19.70	19.78	19.44	
10	QPSK	25	25	19.75	19.89	19.55	
10	QPSK	50	0	19.72	19.76	19.43	21
10	16QAM	1	0	20.04	20.29	19.91	
10	16QAM	1	25	19.83	20.28	19.82	
10	16QAM	1	49	20.22	20.15	20.23	20
10	16QAM	25	0	18.62	18.73	18.71	
10	16QAM	25	12	19.08	18.60	18.99	
10	16QAM	25	25	18.64	18.99	18.74	20
10	16QAM	50	0	19.03	18.56	18.93	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	20.81	21.01	20.80	
5	QPSK	1	12	20.72	20.83	20.76	
5	QPSK	1	24	20.66	20.74	20.99	
5	QPSK	12	0	19.54	19.86	19.68	20.5
5	QPSK	12	7	19.65	19.73	19.39	
5	QPSK	12	13	19.70	19.84	19.50	
5	QPSK	25	0	19.67	19.71	19.38	21
5	16QAM	1	0	19.99	19.84	19.86	
5	16QAM	1	12	19.78	20.23	19.77	
5	16QAM	1	24	20.17	20.10	20.18	20
5	16QAM	12	0	18.57	18.68	18.66	
5	16QAM	12	7	19.03	18.55	18.94	
5	16QAM	12	13	18.59	18.94	18.69	20
5	16QAM	25	0	18.98	18.51	18.88	
Channel				23025	23095	23105	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	20.84	21.04	20.83	
3	QPSK	1	8	20.75	20.86	20.79	
3	QPSK	1	14	20.69	20.77	21.02	
3	QPSK	8	0	19.57	19.89	19.71	20.5
3	QPSK	8	4	19.68	19.76	19.42	
3	QPSK	8	7	19.73	19.87	19.53	
3	QPSK	15	0	19.70	19.74	19.41	21
3	16QAM	1	0	20.02	19.87	19.89	
3	16QAM	1	8	19.81	20.26	19.80	
3	16QAM	1	14	20.20	20.13	20.21	20
3	16QAM	8	0	18.60	18.71	18.69	
3	16QAM	8	4	19.06	18.58	18.97	
3	16QAM	8	7	18.62	18.97	18.72	20
3	16QAM	15	0	19.01	18.54	18.91	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	20.76	20.96	20.75	
1.4	QPSK	1	3	20.67	20.78	20.71	
1.4	QPSK	1	5	20.61	20.69	20.94	
1.4	QPSK	3	0	19.49	19.81	19.63	20.5
1.4	QPSK	3	1	19.60	19.68	19.34	
1.4	QPSK	3	3	19.65	19.79	19.45	
1.4	QPSK	6	0	19.62	19.66	19.33	21
1.4	16QAM	1	0	19.94	19.79	19.81	
1.4	16QAM	1	3	19.73	20.18	19.72	
1.4	16QAM	1	5	20.12	20.05	20.13	20
1.4	16QAM	3	0	18.52	18.63	18.61	
1.4	16QAM	3	1	18.98	18.50	18.89	
1.4	16QAM	3	3	18.54	18.89	18.64	20
1.4	16QAM	6	0	18.93	18.46	18.83	

Band 17 (700MHz Band) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	19.92	20.47	20.19	21
10	QPSK	1	25	20.06	20.04	20.23	
10	QPSK	1	49	20.24	20.22	20.39	
10	QPSK	25	0	19.12	19.40	19.32	20
10	QPSK	25	12	19.04	18.95	19.35	
10	QPSK	25	25	18.98	19.08	19.36	
10	QPSK	50	0	19.23	19.28	19.12	20
10	16QAM	1	0	19.72	19.65	19.60	
10	16QAM	1	25	19.56	19.57	19.87	
10	16QAM	1	49	19.87	19.68	19.91	19
10	16QAM	25	0	18.11	18.16	18.17	
10	16QAM	25	12	18.13	18.60	18.59	
10	16QAM	25	25	18.18	18.43	18.36	19
10	16QAM	50	0	18.10	18.53	18.54	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	19.87	20.36	20.14	
5	QPSK	1	12	20.01	19.99	20.18	
5	QPSK	1	24	20.19	20.17	20.34	
5	QPSK	12	0	19.07	19.35	19.27	20
5	QPSK	12	7	18.99	18.90	19.30	
5	QPSK	12	13	18.93	19.03	19.31	
5	QPSK	25	0	19.18	19.23	19.07	20
5	16QAM	1	0	19.67	19.60	19.55	
5	16QAM	1	12	19.51	19.52	19.82	
5	16QAM	1	24	19.82	19.63	19.86	19
5	16QAM	12	0	18.06	18.11	18.12	
5	16QAM	12	7	18.08	18.55	18.54	
5	16QAM	12	13	18.13	18.38	18.31	19
5	16QAM	25	0	18.05	18.48	18.49	

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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	14.57	14.84	14.71	15.5
20	QPSK	1	49	14.45	14.38	14.38	
20	QPSK	1	99	14.47	14.34	14.35	
20	QPSK	50	0	13.68	13.77	13.46	14.5
20	QPSK	50	24	13.52	13.39	13.50	
20	QPSK	50	50	13.65	13.24	13.57	
20	QPSK	100	0	13.29	13.71	13.56	14.5
20	16QAM	1	0	14.28	14.18	14.14	
20	16QAM	1	49	14.25	14.07	14.02	
20	16QAM	1	99	14.15	13.85	13.96	13.5
20	16QAM	50	0	12.72	12.64	12.34	
20	16QAM	50	24	12.84	12.58	12.41	
20	16QAM	50	50	12.43	12.47	12.76	13.5
20	16QAM	100	0	12.57	12.63	12.14	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.54	14.77	14.68	15.5
15	QPSK	1	37	14.42	14.35	14.35	
15	QPSK	1	74	14.44	14.31	14.32	
15	QPSK	36	0	13.65	13.70	13.43	14.5
15	QPSK	36	20	13.49	13.36	13.47	
15	QPSK	36	39	13.62	13.21	13.54	
15	QPSK	75	0	13.26	13.68	13.53	14.5
15	16QAM	1	0	14.25	14.15	14.11	
15	16QAM	1	37	14.22	14.04	13.99	
15	16QAM	1	74	14.12	13.82	13.93	13.5
15	16QAM	36	0	12.69	12.61	12.31	
15	16QAM	36	20	12.81	12.55	12.38	
15	16QAM	36	39	12.40	12.44	12.73	13.5
15	16QAM	75	0	12.54	12.60	12.11	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.49	14.72	14.63	15.5
10	QPSK	1	25	14.37	14.30	14.30	
10	QPSK	1	49	14.39	14.26	14.27	
10	QPSK	25	0	13.60	13.65	13.38	14.5
10	QPSK	25	12	13.44	13.31	13.42	
10	QPSK	25	25	13.57	13.16	13.49	
10	QPSK	50	0	13.21	13.63	13.48	14.5
10	16QAM	1	0	14.20	14.10	14.06	
10	16QAM	1	25	14.17	13.99	13.94	
10	16QAM	1	49	14.07	13.77	13.88	13.5
10	16QAM	25	0	12.64	12.56	12.26	
10	16QAM	25	12	12.76	12.50	12.33	
10	16QAM	25	25	12.35	12.39	12.68	13.5
10	16QAM	50	0	12.49	12.55	12.06	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	14.46	14.69	14.60	15.5
5	QPSK	1	12	14.34	14.27	14.27	
5	QPSK	1	24	14.36	14.23	14.24	
5	QPSK	12	0	13.57	13.62	13.35	14.5
5	QPSK	12	7	13.41	13.28	13.39	
5	QPSK	12	13	13.54	13.13	13.46	
5	QPSK	25	0	13.18	13.60	13.45	14.5
5	16QAM	1	0	14.17	14.07	14.03	
5	16QAM	1	12	14.14	13.96	13.91	
5	16QAM	1	24	14.04	13.74	13.85	13.5
5	16QAM	12	0	12.61	12.53	12.23	
5	16QAM	12	7	12.73	12.47	12.30	
5	16QAM	12	13	12.32	12.36	12.65	13.5
5	16QAM	25	0	12.46	12.52	12.03	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.41	14.64	14.55	15.5
3	QPSK	1	8	14.29	14.22	14.22	
3	QPSK	1	14	14.31	14.18	14.19	
3	QPSK	8	0	13.52	13.57	13.30	14.5
3	QPSK	8	4	13.36	13.23	13.34	
3	QPSK	8	7	13.49	13.06	13.41	
3	QPSK	15	0	13.13	13.55	13.40	14.5
3	16QAM	1	0	14.12	14.02	13.98	
3	16QAM	1	8	14.09	13.91	13.86	
3	16QAM	1	14	13.99	13.69	13.80	13.5
3	16QAM	8	0	12.56	12.48	12.18	
3	16QAM	8	4	12.68	12.42	12.25	
3	16QAM	8	7	12.27	12.31	12.60	13.5
3	16QAM	15	0	12.41	12.47	11.98	
Channel				131979	132322	132655	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.38	14.61	14.52	15.5
1.4	QPSK	1	3	14.26	14.19	14.19	
1.4	QPSK	1	5	14.28	14.15	14.16	
1.4	QPSK	3	0	13.49	13.54	13.27	14.5
1.4	QPSK	3	1	13.33	13.20	13.31	
1.4	QPSK	3	3	13.46	13.05	13.38	
1.4	QPSK	6	0	13.10	13.52	13.37	14.5
1.4	16QAM	1	0	14.09	13.99	13.95	
1.4	16QAM	1	3	14.06	13.88	13.83	
1.4	16QAM	1	5	13.96	13.66	13.77	14.5
1.4	16QAM	3	0	12.53	12.45	12.15	
1.4	16QAM	3	1	12.65	12.39	12.22	
1.4	16QAM	3	3	12.24	12.28	12.57	13.5
1.4	16QAM	6	0	12.38	12.44	11.95	