



REPORT No.: SZ22100184S01

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	
	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	32.53	32.48	32.51	33.50	23.53	23.48	23.51	24.50	0.07	
GPRS 1 Tx slot	32.55	32.49	32.50	33.50	23.55	23.49	23.50	24.50		
GPRS 2 Tx slots	30.32	30.43	30.41	31.00	24.32	24.43	24.41	25.00	0.11	
GPRS 3 Tx slots	28.27	28.38	28.36	29.00	24.01	24.12	24.10	24.74	0.11	
GPRS 4 Tx slots	27.36	27.42	27.41	28.00	24.36	24.42	24.41	25.00	0.06	
EDGE 1 Tx slot	27.32	27.36	27.34	28.00	18.32	18.36	18.34	19.00	0.04	
EDGE 2 Tx slots	26.05	26.04	26.18	27.00	20.05	20.04	20.18	21.00	0.14	
EDGE 3 Tx slots	24.10	24.11	24.05	25.00	19.84	19.85	19.79	20.74	0.06	
EDGE 4 Tx slots	22.61	22.69	22.72	23.50	19.61	19.69	19.72	20.50	0.11	
Mode		Max.	32.55		Max.	24.43				
Attenuator	Cable Loss : 0.2									

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5	
	TX Channel	512	661		810	512	661			810
	Frequency (MHz)	1850.2	1880		1909.8	1850.2	1880			1909.8
GSM 1 Tx slot	27.67	27.52	27.58	28.50	18.67	18.52	18.58	19.50	0.16	
GPRS 1 Tx slot	27.68	27.53	27.54	28.50	18.68	18.53	18.54	19.50		
GPRS 2 Tx slots	25.19	25.26	25.17	26.00	19.19	19.26	19.17	20.00	0.09	
GPRS 3 Tx slots	23.11	23.20	23.08	24.00	18.85	18.94	18.82	19.74	0.12	
GPRS 4 Tx slots	22.53	22.56	22.46	23.50	19.53	19.56	19.46	20.50	0.10	
EDGE 1 Tx slot	24.34	24.44	24.60	25.50	15.34	15.44	15.60	16.50	0.26	
EDGE 2 Tx slots	23.27	23.31	23.46	24.50	17.27	17.31	17.46	18.50	0.19	
EDGE 3 Tx slots	21.00	21.04	21.27	22.00	16.74	16.78	17.01	17.74	0.27	
EDGE 4 Tx slots	19.68	19.81	19.79	20.50	16.68	16.81	16.79	17.50	0.13	
Mode		Max.	27.68		Max.	19.56				
Attenuator	Cable Loss : 0.3									

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
	Rx Channel	9662	9800		9938	1537	1638		1738	4357	4407		4458
Frequency (MHz)	1852.4	1890	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	RMC 12.2kbps	23.08	23.13	23.04	24.00	23.16	23.19	23.13	24.00	23.12	23.15	23.08	24.00
3GPP Rel 6	HSDPA Subtest-1	22.35	22.56	22.59	23.00	22.53	22.65	22.58	23.00	22.80	22.81	22.91	23.50
3GPP Rel 6	HSDPA Subtest-2	22.35	22.54	22.55	23.00	22.49	22.67	22.53	23.00	22.84	22.77	22.85	23.50
3GPP Rel 6	HSDPA Subtest-3	21.82	22.06	22.07	23.00	21.96	22.17	22.01	23.00	22.36	22.31	22.34	23.50
3GPP Rel 6	HSDPA Subtest-4	21.78	22.04	22.04	23.00	21.93	22.13	21.95	23.00	22.36	22.28	22.36	23.50
3GPP Rel 6	HSUPA Subtest-1	21.84	22.02	22.06	23.00	22.00	22.19	22.00	23.00	22.32	22.26	22.34	23.50
3GPP Rel 6	HSUPA Subtest-2	22.37	22.58	22.59	23.00	22.56	22.66	22.54	23.00	22.80	22.76	22.84	23.50
3GPP Rel 6	HSUPA Subtest-3	21.40	21.54	21.60	22.50	21.48	21.68	21.52	23.00	21.87	21.81	21.84	22.50
3GPP Rel 6	HSUPA Subtest-4	22.39	22.54	22.64	23.00	22.56	22.45	22.56	23.00	22.82	22.79	22.87	23.50
3GPP Rel 6	HSUPA Subtest-5	21.33	21.53	21.57	23.00	21.47	21.63	21.52	22.50	21.81	21.78	21.85	22.50
Attenuator		Cable Loss	0.3			Cable Loss	0.3			Cable Loss	0.2		
Mode		Max.	23.13			Max.	23.19			Max.	23.15		

3	QPSK	8	0	21.42	21.35	21.33	22.5
3	QPSK	8	4	21.39	21.38	21.32	
3	QPSK	8	7	21.39	21.42	21.46	
3	QPSK	15	0	21.34	21.23	21.31	22.5
3	16QAM	1	0	21.43	21.42	21.42	
3	16QAM	1	8	21.35	21.40	21.35	
3	16QAM	1	14	21.23	21.38	21.35	21.5
3	16QAM	8	0	20.29	20.42	20.49	
3	16QAM	8	4	20.45	20.42	20.30	
3	16QAM	8	7	20.41	20.40	20.44	21.5
3	16QAM	15	0	20.42	20.45	20.41	
3	64QAM	1	0	20.14	20.33	19.93	
3	64QAM	1	8	20.25	20.33	20.04	21.5
3	64QAM	1	14	20.17	20.28	20.04	
3	64QAM	8	0	20.21	20.24	20.20	
3	64QAM	8	4	20.25	20.22	20.17	21.5
3	64QAM	8	7	20.24	20.16	20.27	
3	64QAM	15	0	20.09	20.13	20.26	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.41	22.31	22.12	23.5
1.4	QPSK	1	3	22.37	22.40	22.32	
1.4	QPSK	1	5	22.40	22.30	22.30	
1.4	QPSK	3	0	22.42	22.35	22.33	
1.4	QPSK	3	1	22.39	22.43	22.36	
1.4	QPSK	3	3	22.35	22.34	22.41	
1.4	QPSK	6	0	21.41	21.26	21.39	22.5
1.4	16QAM	1	0	21.36	21.46	21.41	
1.4	16QAM	1	3	21.43	21.33	21.33	
1.4	16QAM	1	5	21.29	21.39	21.36	22.5
1.4	16QAM	3	0	21.30	21.43	21.44	
1.4	16QAM	3	1	21.40	21.42	21.33	
1.4	16QAM	3	3	21.39	21.40	21.39	21.5
1.4	16QAM	6	0	20.35	20.42	20.38	
1.4	64QAM	1	0	20.12	20.33	20.11	
1.4	64QAM	1	3	20.21	20.27	20.00	21.5
1.4	64QAM	1	5	20.15	20.31	20.04	
1.4	64QAM	3	0	20.19	20.28	20.15	
1.4	64QAM	3	1	20.22	20.25	20.13	
1.4	64QAM	3	3	20.21	20.14	20.26	
1.4	64QAM	6	0	20.13	20.13	20.34	

3	QPSK	8	0	21.47	21.36	21.40	22.5
3	QPSK	8	4	21.29	21.38	21.41	
3	QPSK	8	7	21.41	21.26	21.38	
3	QPSK	15	0	21.45	21.35	21.43	22.5
3	16QAM	1	0	21.23	21.53	21.45	
3	16QAM	1	8	21.39	21.48	21.42	
3	16QAM	1	14	21.41	21.35	21.40	21.5
3	16QAM	8	0	20.51	20.46	20.44	
3	16QAM	8	4	20.40	20.49	20.53	
3	16QAM	8	7	20.43	20.51	20.51	21.5
3	16QAM	15	0	20.43	20.35	20.37	
3	64QAM	1	0	20.50	20.22	20.20	
3	64QAM	1	8	20.52	20.36	20.17	21.5
3	64QAM	1	14	20.41	20.34	20.26	
3	64QAM	8	0	20.26	20.27	20.36	
3	64QAM	8	4	20.18	20.21	20.38	21.5
3	64QAM	8	7	20.16	20.36	20.35	
3	64QAM	15	0	20.29	20.31	20.23	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.50	22.43	22.36	23.5
1.4	QPSK	1	3	22.48	22.44	22.49	
1.4	QPSK	1	5	22.41	22.42	22.41	
1.4	QPSK	3	0	22.46	22.34	22.37	
1.4	QPSK	3	1	22.37	22.38	22.41	
1.4	QPSK	3	3	22.46	22.25	22.39	
1.4	QPSK	6	0	21.47	21.28	21.43	22.5
1.4	16QAM	1	0	21.25	21.45	21.49	
1.4	16QAM	1	3	21.45	21.43	21.44	
1.4	16QAM	1	5	21.32	21.31	21.43	22.5
1.4	16QAM	3	0	21.44	21.49	21.44	
1.4	16QAM	3	1	21.36	21.55	21.50	
1.4	16QAM	3	3	21.44	21.49	21.44	21.5
1.4	16QAM	6	0	20.49	20.41	20.35	
1.4	64QAM	1	0	20.46	20.29	20.16	
1.4	64QAM	1	3	20.49	20.36	20.22	21.5
1.4	64QAM	1	5	20.41	20.34	20.23	
1.4	64QAM	3	0	20.29	20.26	20.37	
1.4	64QAM	3	1	20.21	20.25	20.33	
1.4	64QAM	3	3	20.20	20.39	20.42	
1.4	64QAM	6	0	20.30	20.25	20.17	

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	22.47	22.53	22.48	23.5
20	QPSK	1	49	22.37	22.38	22.39	
20	QPSK	1	99	22.37	22.40	22.30	
20	QPSK	50	0	21.54	21.60	21.52	22.5
20	QPSK	50	24	21.42	21.54	21.47	
20	QPSK	50	50	21.57	21.55	21.46	
20	QPSK	100	0	21.49	21.55	21.51	22.5
20	16QAM	1	0	21.43	21.57	21.77	
20	16QAM	1	49	21.84	21.68	21.73	
20	16QAM	1	99	21.76	21.57	21.62	21.5
20	16QAM	50	0	20.56	20.49	20.52	
20	16QAM	50	24	20.52	20.53	20.54	
20	16QAM	50	50	20.40	20.46	20.57	21.5
20	16QAM	100	0	20.51	20.51	20.56	
20	64QAM	1	0	20.48	20.55	20.76	
20	64QAM	1	49	20.51	20.36	20.75	21.5
20	64QAM	1	99	20.43	20.29	20.68	
20	64QAM	50	0	20.21	20.15	20.58	
20	64QAM	50	24	20.52	20.55	20.55	21.5
20	64QAM	50	50	20.38	20.47	20.55	
20	64QAM	100	0	20.48	20.49	20.57	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.33	22.38	22.30	23.5
15	QPSK	1	37	22.35	22.28	22.37	
15	QPSK	1	74	22.33	22.32	22.26	
15	QPSK	36	0	21.35	21.51	21.44	22.5
15	QPSK	36	20	21.33	21.52	21.42	
15	QPSK	36	39	21.55	21.52	21.38	
15	QPSK	75	0	21.48	21.43	21.49	22.5
15	16QAM	1	0	21.35	21.48	21.72	
15	16QAM	1	37	21.75	21.63	21.63	
15	16QAM	1	74	21.72	21.51	21.54	21.5
15	16QAM	36	0	20.51	20.40	20.47	
15	16QAM	36	20	20.42	20.43	20.45	
15	16QAM	36	39	20.36	20.42	20.55	21.5
15	16QAM	75	0	20.50	20.49	20.51	
15	64QAM	1	0	20.40	20.47	20.70	
15	64QAM	1	37	20.48	20.33	20.34	21.5
15	64QAM	1	74	20.34	20.20	20.25	
15	64QAM	36	0	20.12	20.07	20.23	
15	64QAM	36	20	20.46	20.49	20.47	21.5
15	64QAM	36	39	20.34	20.45	20.46	
15	64QAM	75	0	20.41	20.45	20.56	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.31	22.34	22.27	23.5
10	QPSK	1	25	22.27	22.33	22.28	
10	QPSK	1	49	22.28	22.33	22.29	
10	QPSK	25	0	21.40	21.53	21.48	22.5
10	QPSK	25	12	21.38	21.50	21.37	
10	QPSK	25	25	21.51	21.46	21.36	
10	QPSK	50	0	21.44	21.43	21.42	22.5
10	16QAM	1	0	21.37	21.54	21.68	
10	16QAM	1	25	21.82	21.64	21.63	
10	16QAM	1	49	21.66	21.49	21.56	21.5
10	16QAM	25	0	20.54	20.41	20.51	
10	16QAM	25	12	20.50	20.46	20.53	
10	16QAM	25	25	20.37	20.39	20.47	21.5
10	16QAM	50	0	20.42	20.48	20.49	
10	64QAM	1	0	20.46	20.45	20.71	
10	64QAM	1	25	20.49	20.28	20.31	21.5
10	64QAM	1	49	20.37	20.22	20.30	
10	64QAM	25	0	20.15	20.09	20.16	
10	64QAM	25	12	20.47	20.51	20.49	21.5
10	64QAM	25	25	20.35	20.38	20.50	
10	64QAM	50	0	20.40	20.46	20.47	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.33	22.39	22.23	23.5
5	QPSK	1	12	22.28	22.36	22.30	
5	QPSK	1	24	22.28	22.33	22.21	
5	QPSK	12	0	21.37	21.54	21.45	22.5
5	QPSK	12	7	21.35	21.47	21.44	
5	QPSK	12	13	21.47	21.54	21.44	
5	QPSK	25	0	21.39	21.50	21.50	22.5
5	16QAM	1	0	21.41	21.48	21.67	
5	16QAM	1	12	21.80	21.61	21.68	
5	16QAM	1	24	21.71	21.56	21.56	21.5
5	16QAM	12	0	20.47	20.43	20.44	
5	16QAM	12	7	20.44	20.49	20.48	
5	16QAM	12	13	20.39	20.45	20.47	21.5
5	16QAM	25	0	20.44	20.43	20.48	
5	64QAM	1	0	20.09	20.18	20.36	
5	64QAM	1	12	20.46	20.27	20.32	21.5
5	64QAM	1	24	20.34	20.23	20.32	
5	64QAM	12	0	20.54	20.40	20.55	
5	64QAM	12	7	20.45	20.48	20.46	21.5
5	64QAM	12	13	20.36	20.40	20.53	
5	64QAM	25	0	20.44	20.47	20.52	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.32	22.42	22.26	23.5
3	QPSK	1	8	22.35	22.32	22.29	
3	QPSK	1	14	22.31	22.31	22.26	

3	QPSK	8	0	21.35	21.52	21.51	22.5
3	QPSK	8	4	21.38	21.51	21.45	
3	QPSK	8	7	21.49	21.49	21.44	
3	QPSK	15	0	21.44	21.49	21.50	22.5
3	16QAM	1	0	21.39	21.55	21.70	
3	16QAM	1	8	21.78	21.58	21.70	
3	16QAM	1	14	21.75	21.56	21.60	21.5
3	16QAM	8	0	20.47	20.40	20.46	
3	16QAM	8	4	20.43	20.44	20.46	
3	16QAM	8	7	20.33	20.39	20.54	21.5
3	16QAM	15	0	20.41	20.41	20.54	
3	64QAM	1	0	20.04	20.11	20.40	
3	64QAM	1	8	20.46	20.28	20.38	21.5
3	64QAM	1	14	20.35	20.28	20.27	
3	64QAM	8	0	20.45	20.44	20.51	
3	64QAM	8	4	20.45	20.50	20.47	21.5
3	64QAM	8	7	20.35	20.38	20.49	
3	64QAM	15	0	20.41	20.45	20.56	
Channel				131979	132322	132685	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.32	22.35	22.26	23.5
1.4	QPSK	1	3	22.33	22.31	22.34	
1.4	QPSK	1	5	22.33	22.30	22.20	
1.4	QPSK	3	0	22.42	22.33	22.49	
1.4	QPSK	3	1	22.41	22.22	22.39	
1.4	QPSK	3	3	22.47	22.15	22.43	
1.4	QPSK	6	0	21.42	21.43	21.46	22.5
1.4	16QAM	1	0	21.42	21.50	21.76	
1.4	16QAM	1	3	21.78	21.66	21.70	
1.4	16QAM	1	5	21.68	21.48	21.56	
1.4	16QAM	3	0	21.54	21.44	21.49	
1.4	16QAM	3	1	21.49	21.50	21.50	
1.4	16QAM	3	3	21.39	21.42	21.48	21.5
1.4	16QAM	6	0	20.50	20.47	20.48	
1.4	64QAM	1	0	20.07	20.20	20.39	
1.4	64QAM	1	3	20.50	20.35	20.40	
1.4	64QAM	1	5	20.39	20.21	20.26	
1.4	64QAM	3	0	20.48	20.41	20.54	
1.4	64QAM	3	1	20.46	20.50	20.51	21.5
1.4	64QAM	3	3	20.36	20.41	20.51	
1.4	64QAM	6	0	20.39	20.43	20.56	

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	14.47	15.00	17	100.00
		CH 6	2437	14.39	15.00	17	
		CH 11	2462	13.65	14.00	17	
	802.11g 6Mbps	CH 1	2412	12.16	13.00	15	97.54
		CH 6	2437	12.36	13.00	15	
		CH 11	2462	12.21	13.00	15	
	802.11n-HT20 MCS0	CH 1	2412	12.34	13.00	15	97.38
		CH 6	2437	12.41	13.00	15	
		CH 11	2462	12.37	13.00	15	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	4.43	1.42	1.42
	CH 39	2441	5.82	2.45	2.45
	CH 78	2480	3.95	0.74	0.72
Tune-up Limit			6.5	3	3
Duty Cycle %			76.77	76.8	76.8

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	3.56
	CH 19	2440	4.61
	CH 39	2480	2.70
Tune-up Limit			5
Duty Cycle %			61.06