



REPORT No.: SZ22120208S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.



Conducted Power

GSM850 TX Channel	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		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	28.70	28.73	28.71	29.50	19.70	19.73	19.71	20.50	0.07
GPRS 1 Tx slot	28.66	28.70	28.69	29.50	19.66	19.70	19.69	20.50	
GPRS 2 Tx slots	26.35	26.41	26.36	27.00	20.35	20.41	20.36	21.00	0.06
GPRS 3 Tx slots	25.29	25.33	25.30	26.00	21.03	21.07	21.04	21.74	0.04
GPRS 4 Tx slots	23.27	23.35	23.36	24.00	20.27	20.35	20.36	21.00	0.09
EDGE 1 Tx slot	23.10	23.12	23.05	24.00	14.10	14.12	14.05	15.00	0.07
EDGE 2 Tx slots	20.19	20.26	20.22	21.00	14.19	14.26	14.22	15.00	0.07
EDGE 3 Tx slots	18.85	18.91	18.88	19.50	14.59	14.65	14.62	15.24	0.06
EDGE 4 Tx slots	16.72	16.77	16.80	17.50	13.72	13.77	13.80	14.50	0.08
Mode		Max.	28.73			Max.	21.07		
Attenuator	Cable Loss : 0.6								

GSM1900 TX Channel	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		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	28.77	28.80	28.78	29.50	19.77	19.80	19.78	20.50	0.08
GPRS 1 Tx slot	28.72	28.76	28.75	29.50	19.72	19.76	19.75	20.50	
GPRS 2 Tx slots	26.79	26.83	26.80	27.50	20.79	20.83	20.80	21.50	0.04
GPRS 3 Tx slots	25.68	25.75	25.73	26.50	21.42	21.49	21.47	22.24	0.07
GPRS 4 Tx slots	23.38	23.43	23.36	24.00	20.38	20.43	20.36	21.00	0.07
EDGE 1 Tx slot	25.15	25.20	25.17	26.00	16.15	16.20	16.17	17.00	0.05
EDGE 2 Tx slots	22.41	22.45	22.38	23.00	16.41	16.45	16.38	17.00	0.07
EDGE 3 Tx slots	21.33	21.32	21.29	22.00	17.07	17.06	17.03	17.74	0.04
EDGE 4 Tx slots	19.58	19.65	19.57	20.50	16.58	16.65	16.57	17.50	0.08
Mode		Max.	28.80			Max.	21.49		
Attenuator	Cable Loss : 0.8								

Band TX Channel	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	
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	22.82	22.86	22.83	23.50	23.43	23.45	23.40	24.00	23.59	23.63	23.62	24.50
3GPP Rel 6 HSDPA Subtest-1	22.10	22.28	22.29	23.50	23.05	22.97	22.78	24.00	23.28	23.46	23.48	24.50
3GPP Rel 6 HSDPA Subtest-2	22.11	22.14	22.31	23.50	23.07	22.94	22.83	24.00	23.29	23.50	23.51	24.50
3GPP Rel 6 HSDPA Subtest-3	21.94	22.13	22.17	23.00	22.65	22.46	22.33	23.50	22.81	23.01	23.06	24.00
3GPP Rel 6 HSDPA Subtest-4	21.94	22.13	22.16	23.00	22.65	22.46	22.31	23.50	22.81	22.98	23.06	24.00
3GPP Rel 6 HSUPA Subtest-1	22.02	22.09	22.17	23.50	23.05	22.90	22.81	24.00	23.31	23.44	23.44	24.50
3GPP Rel 6 HSUPA Subtest-2	20.59	20.61	20.70	21.50	21.55	21.45	21.31	22.00	21.48	21.60	21.63	22.50
3GPP Rel 6 HSUPA Subtest-3	22.08	22.11	22.17	22.50	22.06	21.92	21.81	23.00	22.90	23.15	23.16	23.50
3GPP Rel 6 HSUPA Subtest-4	20.71	20.85	20.81	21.50	21.06	20.98	20.76	22.00	21.96	22.11	22.08	22.50
3GPP Rel 6 HSUPA Subtest-5	22.16	22.19	22.19	23.50	23.10	22.94	22.78	24.00	22.97	23.14	23.12	24.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	21.15	21.21	21.24	22.00	22.04	22.08	22.01	22.50	21.99	22.11	22.07	23.00
Attenuator	Cable Loss			0.8	Cable Loss			0.8	Cable Loss			0.6
Mode		Max.	22.86			Max.	23.45			Max.	23.63	



3	16QAM	1	8	20.52	20.37	20.46	21.5
3	16QAM	1	14	20.41	20.39	20.50	
3	16QAM	8	0	19.58	19.76	19.71	
3	16QAM	8	4	19.52	19.71	19.42	20.5
3	16QAM	8	7	19.76	19.60	19.73	
3	16QAM	15	0	19.64	19.65	19.36	
3	64QAM	1	0	19.44	19.74	19.43	20.5
3	64QAM	1	8	19.51	19.51	19.52	
3	64QAM	1	14	19.34	19.50	19.38	
3	64QAM	8	0	18.50	18.64	18.54	19.5
3	64QAM	8	4	18.75	18.48	18.51	
3	64QAM	8	7	18.71	18.47	18.60	
3	64QAM	15	0	18.58	18.61	18.61	
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.75	21.76	21.65	22.5
1.4	QPSK	1	3	21.68	21.65	21.57	
1.4	QPSK	1	5	21.72	21.60	21.49	
1.4	QPSK	3	0	20.52	20.75	20.68	
1.4	QPSK	3	1	20.60	20.51	20.52	
1.4	QPSK	3	3	20.53	20.65	20.69	
1.4	QPSK	6	0	20.70	20.83	20.64	21.5
1.4	16QAM	1	0	20.55	20.78	20.53	21.5
1.4	16QAM	1	3	20.55	20.57	20.54	
1.4	16QAM	1	5	20.50	20.66	20.55	
1.4	16QAM	3	0	19.53	19.63	19.80	
1.4	16QAM	3	1	19.56	19.73	19.78	
1.4	16QAM	3	3	19.68	19.58	19.63	
1.4	16QAM	6	0	19.57	19.71	19.60	20.5
1.4	64QAM	1	0	19.63	19.72	19.66	20.5
1.4	64QAM	1	3	19.41	19.48	19.59	
1.4	64QAM	1	5	19.51	19.61	19.70	
1.4	64QAM	3	0	18.57	18.88	18.69	
1.4	64QAM	3	1	18.59	18.61	18.62	
1.4	64QAM	3	3	18.68	18.53	18.51	
1.4	64QAM	6	0	18.66	18.71	18.55	19.5

3	16QAM	1	8	20.97	20.88	20.87	22
3	16QAM	1	14	21.05	20.99	20.93	
3	16QAM	8	0	20.04	20.22	20.06	
3	16QAM	8	4	19.91	20.20	19.84	21
3	16QAM	8	7	20.14	20.09	20.09	
3	16QAM	15	0	20.05	20.09	20.09	
3	64QAM	1	0	20.18	20.15	20.16	21
3	64QAM	1	8	20.05	20.13	20.09	
3	64QAM	1	14	19.99	20.10	20.11	
3	64QAM	8	0	18.99	19.07	19.26	20
3	64QAM	8	4	19.07	19.16	19.12	
3	64QAM	8	7	18.95	19.00	19.17	
3	64QAM	15	0	19.02	19.16	18.82	
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.14	22.23	22.11	23
1.4	QPSK	1	3	22.17	22.09	21.99	
1.4	QPSK	1	5	21.98	22.13	22.13	
1.4	QPSK	3	0	21.30	21.25	21.27	
1.4	QPSK	3	1	21.19	21.29	21.01	
1.4	QPSK	3	3	21.11	21.21	21.00	
1.4	QPSK	6	0	21.15	21.16	21.28	22
1.4	16QAM	1	0	21.07	21.25	21.17	22
1.4	16QAM	1	3	20.94	21.16	21.00	
1.4	16QAM	1	5	20.92	21.16	20.89	
1.4	16QAM	3	0	20.11	20.17	20.11	
1.4	16QAM	3	1	20.03	20.00	20.11	
1.4	16QAM	3	3	20.02	20.03	20.02	
1.4	16QAM	6	0	20.09	20.19	20.22	21
1.4	64QAM	1	0	19.96	20.24	20.04	21
1.4	64QAM	1	3	19.84	20.16	20.08	
1.4	64QAM	1	5	19.86	19.87	20.03	
1.4	64QAM	3	0	19.11	19.29	19.26	
1.4	64QAM	3	1	19.12	19.07	19.08	
1.4	64QAM	3	3	19.00	19.26	19.03	
1.4	64QAM	6	0	19.06	19.15	19.00	20



REPORT No.: SZ22120208S01

3	16QAM	1	8	20.54	20.42	20.51	21.5
3	16QAM	1	14	20.47	20.57	20.42	
3	16QAM	8	0	19.59	19.68	19.61	20.5
3	16QAM	8	4	19.47	19.54	19.71	
3	16QAM	8	7	19.57	19.59	19.64	
3	16QAM	15	0	19.43	19.70	19.68	
3	64QAM	1	0	19.55	19.76	19.40	20.5
3	64QAM	1	8	19.64	19.52	19.41	
3	64QAM	1	14	19.49	19.49	19.35	19.5
3	64QAM	8	0	18.52	18.59	18.72	
3	64QAM	8	4	18.76	18.49	18.55	
3	64QAM	8	7	18.40	18.75	18.50	
3	64QAM	15	0	18.41	18.38	18.39	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	21.59	21.75	21.72	22.5
1.4	QPSK	1	3	21.66	21.64	21.47	
1.4	QPSK	1	5	21.53	21.61	21.62	
1.4	QPSK	3	0	20.57	20.86	20.71	
1.4	QPSK	3	1	20.55	20.63	20.77	
1.4	QPSK	3	3	20.65	20.52	20.75	
1.4	QPSK	6	0	20.63	20.64	20.46	21.5
1.4	16QAM	1	0	20.56	20.48	20.33	20.5
1.4	16QAM	1	3	20.54	20.64	20.53	
1.4	16QAM	1	5	20.41	20.43	20.33	
1.4	16QAM	3	0	19.59	19.74	19.52	
1.4	16QAM	3	1	19.52	19.72	19.52	
1.4	16QAM	3	3	19.56	19.54	19.69	
1.4	16QAM	6	0	19.40	19.45	19.35	19.5
1.4	64QAM	1	0	19.45	19.51	19.66	20.5
1.4	64QAM	1	3	19.49	19.67	19.49	
1.4	64QAM	1	5	19.59	19.44	19.38	
1.4	64QAM	3	0	18.71	18.57	18.55	
1.4	64QAM	3	1	18.56	18.68	18.64	
1.4	64QAM	3	3	18.65	18.66	18.69	
1.4	64QAM	6	0	18.67	18.56	18.60	19.5



REPORT No.: SZ22120208S01

1.4	16QAM	1	3	20.94	21.25	20.99	22
1.4	16QAM	1	5	21.06	21.20	21.01	
1.4	16QAM	3	0	20.28	20.18	20.00	
1.4	16QAM	3	1	20.04	20.24	20.01	21
1.4	16QAM	3	3	20.09	20.17	20.08	
1.4	16QAM	6	0	20.26	19.97	20.09	
1.4	64QAM	1	0	20.18	20.02	19.98	21
1.4	64QAM	1	3	20.11	19.91	19.95	
1.4	64QAM	1	5	19.83	20.20	19.85	
1.4	64QAM	3	0	19.04	19.28	19.27	
1.4	64QAM	3	1	19.26	19.04	19.20	
1.4	64QAM	3	3	19.03	19.03	19.24	
1.4	64QAM	6	0	19.08	19.22	19.24	20

3	16QAM	1	8	21.08	21.28	21.04	22
3	16QAM	1	14	20.91	20.99	21.09	
3	16QAM	8	0	20.14	20.25	20.23	21
3	16QAM	8	4	20.03	20.24	20.12	
3	16QAM	8	7	20.03	20.10	19.97	
3	16QAM	15	0	20.21	20.01	20.05	21
3	64QAM	1	0	20.16	19.94	20.17	
3	64QAM	1	8	19.95	19.98	20.17	
3	64QAM	1	14	19.83	20.15	20.01	20
3	64QAM	8	0	19.16	19.10	19.32	
3	64QAM	8	4	19.28	19.18	19.15	
3	64QAM	8	7	18.94	19.01	19.34	20
3	64QAM	15	0	18.99	19.01	18.92	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.20	22.36	22.17	23
1.4	QPSK	1	3	22.05	22.09	22.20	
1.4	QPSK	1	5	22.07	22.15	22.34	
1.4	QPSK	3	0	21.11	21.31	21.03	
1.4	QPSK	3	1	21.13	21.06	21.13	
1.4	QPSK	3	3	21.16	21.10	21.27	
1.4	QPSK	6	0	21.14	21.11	21.19	22
1.4	16QAM	1	0	21.07	21.32	21.05	22
1.4	16QAM	1	3	21.10	21.27	21.05	
1.4	16QAM	1	5	21.07	21.13	21.08	
1.4	16QAM	3	0	20.12	20.22	20.27	
1.4	16QAM	3	1	20.03	20.11	20.13	
1.4	16QAM	3	3	20.04	20.25	20.11	
1.4	16QAM	6	0	20.17	20.25	20.07	21
1.4	64QAM	1	0	20.01	20.27	20.12	21
1.4	64QAM	1	3	19.98	20.19	19.99	
1.4	64QAM	1	5	20.13	20.14	20.07	
1.4	64QAM	3	0	19.17	19.34	19.21	
1.4	64QAM	3	1	19.11	19.05	19.24	
1.4	64QAM	3	3	19.27	19.01	19.14	
1.4	64QAM	6	0	19.14	19.18	18.93	20



Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	23.23	23.32	23.27	24
20	QPSK	1	49	23.25	23.11	23.08	
20	QPSK	1	99	23.16	23.08	23.19	
20	QPSK	50	0	22.12	22.38	22.24	23
20	QPSK	50	24	22.13	22.15	22.09	
20	QPSK	50	50	22.01	22.16	22.15	
20	QPSK	100	0	22.13	21.99	22.30	23
20	16QAM	1	0	22.18	22.11	22.00	
20	16QAM	1	49	22.02	21.96	22.05	
20	16QAM	1	99	21.91	21.86	22.02	22
20	16QAM	50	0	21.13	21.37	21.08	
20	16QAM	50	24	21.23	21.08	21.18	
20	16QAM	50	50	21.02	21.06	21.03	22
20	16QAM	100	0	20.96	20.95	21.17	
20	64QAM	1	0	21.03	21.18	21.11	
20	64QAM	1	49	20.90	21.16	20.93	22
20	64QAM	1	99	21.18	20.94	21.11	
20	64QAM	50	0	20.21	20.03	20.22	
20	64QAM	50	24	20.04	20.26	20.09	21
20	64QAM	50	50	19.97	20.30	19.97	
20	64QAM	100	0	19.93	19.97	20.07	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.06	23.27	23.22	24
15	QPSK	1	37	23.09	23.10	23.25	
15	QPSK	1	74	23.12	23.17	23.02	
15	QPSK	36	0	22.15	22.37	22.27	23
15	QPSK	36	20	22.07	22.09	22.02	
15	QPSK	36	39	22.02	22.23	22.18	
15	QPSK	75	0	22.00	22.01	22.00	23
15	16QAM	1	0	22.09	22.06	22.09	
15	16QAM	1	37	22.06	22.24	22.06	
15	16QAM	1	74	22.03	21.97	22.04	22
15	16QAM	36	0	20.99	21.09	20.98	
15	16QAM	36	20	21.03	20.94	20.84	
15	16QAM	36	39	21.12	20.99	21.04	22
15	16QAM	75	0	21.28	21.24	21.14	
15	64QAM	1	0	20.95	21.20	21.05	
15	64QAM	1	37	21.07	21.08	20.91	22
15	64QAM	1	74	21.05	21.13	21.19	
15	64QAM	36	0	20.16	20.18	20.26	
15	64QAM	36	20	20.03	20.26	20.04	21
15	64QAM	36	39	19.98	20.08	20.10	
15	64QAM	75	0	20.11	19.88	19.91	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	
10	QPSK	1	0	23.28	23.30	23.23	24
10	QPSK	1	25	23.05	23.25	23.19	
10	QPSK	1	49	23.15	23.09	23.02	
10	QPSK	25	0	22.08	22.38	22.24	23
10	QPSK	25	12	22.10	22.05	22.03	
10	QPSK	25	25	22.07	22.01	22.05	
10	QPSK	50	0	22.16	22.23	22.27	23
10	16QAM	1	0	22.01	22.26	22.11	
10	16QAM	1	25	22.05	21.89	22.03	
10	16QAM	1	49	21.91	22.08	22.10	22
10	16QAM	25	0	21.10	21.30	21.14	
10	16QAM	25	12	21.09	21.21	21.07	
10	16QAM	25	25	21.17	20.92	21.13	22
10	16QAM	50	0	21.28	21.12	21.09	
10	64QAM	1	0	21.23	21.29	21.17	
10	64QAM	1	25	21.04	21.17	21.07	22
10	64QAM	1	49	21.06	21.00	21.12	
10	64QAM	25	0	20.12	20.39	20.34	
10	64QAM	25	12	20.25	20.02	20.12	21
10	64QAM	25	25	20.03	20.30	20.23	
10	64QAM	50	0	20.05	19.98	20.09	
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	23.06	23.28	23.16	24
5	QPSK	1	12	23.18	23.17	23.15	
5	QPSK	1	24	23.22	23.06	23.05	
5	QPSK	12	0	22.32	22.33	22.23	23
5	QPSK	12	7	22.25	22.21	22.22	
5	QPSK	12	13	22.18	22.21	22.25	
5	QPSK	25	0	21.94	22.06	22.08	23
5	16QAM	1	0	22.04	22.08	22.12	
5	16QAM	1	12	21.81	21.94	22.06	
5	16QAM	1	24	22.03	21.92	22.17	22
5	16QAM	12	0	21.17	21.30	21.28	
5	16QAM	12	7	21.17	21.21	21.22	
5	16QAM	12	13	21.15	20.95	21.29	22
5	16QAM	25	0	21.13	21.22	21.01	
5	64QAM	1	0	21.21	20.97	20.86	
5	64QAM	1	12	21.02	20.86	20.97	22
5	64QAM	1	24	21.14	20.99	21.22	
5	64QAM	12	0	20.13	20.22	20.11	
5	64QAM	12	7	19.97	20.09	20.02	21
5	64QAM	12	13	19.97	20.14	20.08	
5	64QAM	25	0	20.10	20.27	20.03	



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	16.12	16.50	18.00	100.00
		CH 7	2442	16.11	16.50	18.00	
		CH 13	2472	14.88	15.50	17.00	
	802.11g 6Mbps	CH 1	2412	15.55	16.00	17.00	100.00
		CH 7	2442	14.98	15.50	17.00	
		CH 13	2472	8.03	8.50	10.00	
	802.11n-HT20 MCS0	CH 1	2412	13.25	14.00	15.00	100.00
		CH 7	2442	13.05	13.50	15.00	
		CH 13	2472	8.98	9.50	11.00	
802.11n-HT40 MCS0	CH 3	2422	13.91	14.50	14.00	75.90	
	CH 7	2442	13.99	14.50	15.00		
	CH 11	2462	10.92	11.50	11.00		

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.66	6.26	6.31
	CH 39	2441	9.06	7.62	7.72
	CH 78	2480	7.75	6.70	6.87
Tune-up Limit			9.5	8.5	8.5
Duty Cycle %			77.39	77.44	77.49

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	-3.88
	CH 19	2440	-2.38
	CH 39	2480	-3.34
Tune-up Limit			-1
Duty Cycle %			65.6