



REPORT No.: SZ21120365S01

Annex E Conducted 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	32.06	32.12	32.00	33.00	23.06	23.12	23.00	24.00	0.15	
GPRS 1 Tx slot	32.12	32.15	32.05	33.00	23.12	23.15	23.05	24.00		
GPRS 2 Tx slots	30.06	30.11	29.95	30.50	24.06	24.11	23.95	24.50	0.16	
GPRS 3 Tx slots	28.24	28.25	28.17	28.50	23.98	23.99	23.91	24.24	0.08	
GPRS 4 Tx slots	26.12	26.28	26.18	26.50	23.12	23.28	23.18	23.50	0.16	
EDGE 1 Tx slot	25.38	25.40	25.36	26.00	16.38	16.40	16.36	17.00	0.04	
EDGE 2 Tx slots	24.08	24.23	24.14	24.50	18.08	18.23	18.14	18.50	0.15	
EDGE 3 Tx slots	22.40	22.60	22.32	23.00	18.14	18.34	18.06	18.74	0.28	
EDGE 4 Tx slots	19.99	20.13	19.85	20.50	16.99	17.13	16.85	17.50	0.28	
Mode		Max.	32.15			Max.	24.11			
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
TX Channel	512	661	810	512		661	810			
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8			
GSM 1 Tx slot	28.70	28.90	28.86	29.50	19.70	19.90	19.86	20.50	0.24	
GPRS 1 Tx slot	28.72	28.94	28.88	29.50	19.72	19.94	19.88	20.50		
GPRS 2 Tx slots	27.01	26.76	26.61	27.50	21.01	20.76	20.61	21.50	0.40	
GPRS 3 Tx slots	25.30	25.24	25.29	25.50	21.04	20.98	21.03	21.24	0.06	
GPRS 4 Tx slots	23.26	23.23	22.80	23.50	20.26	20.23	19.80	20.50	0.46	
EDGE 1 Tx slot	24.30	24.59	24.60	25.00	15.30	15.59	15.60	16.00	0.30	
EDGE 2 Tx slots	22.50	22.65	22.58	23.00	16.50	16.65	16.58	17.00	0.15	
EDGE 3 Tx slots	20.51	20.56	20.45	21.00	16.25	16.30	16.19	16.74	0.11	
EDGE 4 Tx slots	18.93	18.62	18.76	19.50	15.93	15.62	15.76	16.50	0.31	
Mode		Max.	28.94			Max.	21.04			
Attenuator	Cable Loss : 0.8									

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			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	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	RMC 12.2Kbps	20.15	20.54	20.10	21.00	20.47	20.51	20.48	21.00	23.14	23.18	23.13	24.00
3GPP Rel 6	HSDPA Subtest-1	19.89	20.30	19.74	20.50	18.82	18.92	18.87	19.50	22.34	22.51	22.33	23.00
3GPP Rel 6	HSDPA Subtest-2	19.74	20.23	19.51	20.50	19.29	19.54	19.39	20.00	22.14	22.19	22.02	23.00
3GPP Rel 6	HSDPA Subtest-3	19.51	19.42	19.27	20.00	19.41	19.64	19.53	20.00	21.95	21.88	21.92	22.50
3GPP Rel 6	HSDPA Subtest-4	19.61	19.56	19.35	20.00	19.29	19.56	19.34	20.00	21.87	21.80	21.83	22.50
3GPP Rel 6	HSUPA Subtest-1	17.90	17.99	17.65	18.50	17.44	18.00	17.79	18.50	23.07	23.14	23.06	23.50
3GPP Rel 6	HSUPA Subtest-2	17.39	18.12	18.12	18.50	17.57	17.98	17.77	18.50	22.98	23.10	22.97	23.50
3GPP Rel 6	HSUPA Subtest-3	18.10	18.13	18.13	18.50	17.58	17.95	17.77	18.50	23.04	23.11	23.02	23.50
3GPP Rel 6	HSUPA Subtest-4	17.94	17.37	17.92	18.50	16.92	17.18	17.41	18.50	22.98	23.09	22.92	23.50
3GPP Rel 6	HSUPA Subtest-5	16.68	16.72	16.65	17.50	16.73	16.82	16.75	17.50	23.04	23.11	23.01	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.19	20.32	20.27	20.50	19.02	18.98	19.09	19.50	23.11	23.12	23.05	23.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode		Max.	20.54			Max.	20.51			Max.	23.18		

3	16QAM	8	7	17.99	18.13	18.11	19.5	
3	16QAM	15	0	18.05	18.22	18.06		
3	64QAM	1	0	18.52	18.96	19.09		
3	64QAM	1	8	18.59	19.04	19.06		
3	64QAM	1	14	18.56	19.06	19.19		
3	64QAM	8	0	18.05	18.11	18.11		
3	64QAM	8	4	17.95	18.05	18.04		
3	64QAM	8	7	17.81	17.93	17.99		
3	64QAM	15	0	18.05	18.18	18.07		
Channel				1860.7	1890.0	1919.3		Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	19.82	19.94	19.80		20.5
1.4	QPSK	1	3	19.78	20.01	19.79		
1.4	QPSK	1	5	19.73	19.96	19.81		
1.4	QPSK	3	0	19.78	19.98	19.81		
1.4	QPSK	3	1	19.83	19.90	19.85		
1.4	QPSK	3	3	19.86	19.96	19.72		
1.4	QPSK	6	0	18.82	19.07	18.90	19.5	
1.4	16QAM	1	0	18.42	19.32	19.35		
1.4	16QAM	1	3	18.75	19.42	19.49		
1.4	16QAM	1	5	18.91	19.54	19.38		
1.4	16QAM	3	0	18.91	19.31	19.12		
1.4	16QAM	3	1	18.89	19.35	19.12		
1.4	16QAM	3	3	18.92	19.28	19.05		
1.4	16QAM	6	0	17.74	17.77	17.69	18.5	
1.4	64QAM	1	0	18.70	19.05	18.98		
1.4	64QAM	1	3	18.76	18.94	18.93		
1.4	64QAM	1	5	18.68	18.94	18.83		
1.4	64QAM	3	0	19.00	19.10	18.87		
1.4	64QAM	3	1	19.02	19.00	18.86		
1.4	64QAM	3	3	18.99	19.09	18.90		
1.4	64QAM	6	0	18.04	18.12	17.92	18.5	

3	16QAM	8	7	21.08	20.96	21.15	21.5	
3	16QAM	15	0	20.95	20.97	21.08		
3	64QAM	1	0	22.00	22.18	22.22		
3	64QAM	1	8	21.90	21.86	21.81		
3	64QAM	1	14	22.04	21.97	21.88		
3	64QAM	8	0	20.96	21.05	21.13		
3	64QAM	8	4	21.08	21.08	21.24		
3	64QAM	8	7	21.15	21.13	20.98		
3	64QAM	15	0	20.99	21.01	21.05		
Channel				1995.7	2017.5	2039.3		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.90	22.97	22.92		23.5
1.4	QPSK	1	3	22.80	22.93	22.79		
1.4	QPSK	1	5	22.86	22.82	22.88		
1.4	QPSK	3	0	21.75	21.93	21.79		
1.4	QPSK	3	1	21.74	21.80	21.82		
1.4	QPSK	3	3	21.79	21.81	21.87		
1.4	QPSK	6	0	21.89	21.82	21.64	22.5	
1.4	16QAM	1	0	22.13	22.15	21.87		
1.4	16QAM	1	3	22.00	22.08	21.77		
1.4	16QAM	1	5	22.07	21.94	21.89		
1.4	16QAM	3	0	21.12	21.13	21.21		
1.4	16QAM	3	1	21.01	21.07	21.30		
1.4	16QAM	3	3	21.11	20.99	21.18		
1.4	16QAM	6	0	20.98	21.00	21.11	21.5	
1.4	64QAM	1	0	22.03	22.21	22.25		
1.4	64QAM	1	3	21.93	21.89	21.84		
1.4	64QAM	1	5	22.07	22.00	21.91		
1.4	64QAM	3	0	20.99	21.08	21.16		
1.4	64QAM	3	1	21.11	21.09	21.27		
1.4	64QAM	3	3	21.18	21.16	21.01		
1.4	64QAM	6	0	21.02	21.04	21.08	21.5	

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	20.67	21.02	20.92	21.5
20	QPSK	1	49	20.72	20.86	20.81	
20	QPSK	1	99	20.86	20.97	20.88	
20	QPSK	50	0	19.80	19.77	19.88	20.5
20	QPSK	50	24	19.77	19.92	19.78	
20	QPSK	50	50	19.92	19.69	19.94	
20	QPSK	100	0	19.84	19.76	19.77	20.5
20	16QAM	1	0	20.13	20.22	20.47	
20	16QAM	1	49	20.25	20.31	20.43	
20	16QAM	1	99	20.33	20.36	20.49	19.5
20	16QAM	50	0	18.95	18.98	18.87	
20	16QAM	50	24	18.98	18.93	18.91	
20	16QAM	50	50	19.03	19.06	18.91	20.5
20	16QAM	100	0	18.94	19.09	19.03	
20	64QAM	1	0	19.91	20.33	19.76	
20	64QAM	1	49	20.10	20.38	19.94	20.5
20	64QAM	1	99	20.19	20.46	19.87	
20	64QAM	50	0	19.07	18.92	19.05	
20	64QAM	50	24	19.01	18.92	19.02	20.5
20	64QAM	50	50	19.01	19.06	19.07	
20	64QAM	100	0	18.95	19.10	19.04	
Channel				132047	132114	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.74	20.58	20.79	21.5
15	QPSK	1	37	20.84	20.62	20.87	
15	QPSK	1	74	20.83	20.78	20.96	
15	QPSK	36	0	19.79	19.85	19.79	20.5
15	QPSK	36	20	19.76	19.93	19.90	
15	QPSK	36	39	19.81	19.88	20.00	
15	QPSK	75	0	19.79	19.87	19.83	20.5
15	16QAM	1	0	20.04	20.36	20.49	
15	16QAM	1	37	20.11	20.30	20.42	
15	16QAM	1	74	20.37	20.36	20.50	19.5
15	16QAM	36	0	19.01	18.89	18.93	
15	16QAM	36	20	18.98	18.93	18.92	
15	16QAM	36	39	19.03	18.94	18.99	22.5
15	16QAM	75	0	18.88	18.99	19.08	
15	64QAM	1	0	20.00	19.84	19.79	
15	64QAM	1	37	20.09	19.87	19.85	21.5
15	64QAM	1	74	20.04	19.93	19.89	
15	64QAM	36	0	18.98	18.91	19.00	
15	64QAM	36	20	19.13	18.93	19.04	21.5
15	64QAM	36	39	19.09	19.02	19.13	
15	64QAM	75	0	18.96	18.99	18.97	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.63	20.72	20.79	21.5
10	QPSK	1	25	20.67	20.71	20.73	
10	QPSK	1	49	20.72	20.74	20.76	
10	QPSK	25	0	18.83	19.73	19.92	20.5
10	QPSK	25	12	19.75	19.77	19.80	
10	QPSK	25	25	19.80	19.81	19.87	
10	QPSK	50	0	19.71	19.92	19.75	20.5
10	16QAM	1	0	19.99	20.11	20.23	
10	16QAM	1	25	20.10	20.18	20.24	
10	16QAM	1	49	20.20	20.34	20.29	19.5
10	16QAM	25	0	19.04	19.13	19.16	
10	16QAM	25	12	19.11	19.19	19.17	
10	16QAM	25	25	19.14	19.19	19.24	20.5
10	16QAM	50	0	18.96	19.01	18.97	
10	64QAM	1	0	19.91	19.92	20.07	
10	64QAM	1	25	20.00	19.85	20.04	19.5
10	64QAM	1	49	20.12	20.02	20.07	
10	64QAM	25	0	19.03	19.08	19.12	
10	64QAM	25	12	19.07	19.11	19.09	19.5
10	64QAM	25	25	19.09	19.15	19.18	
10	64QAM	50	0	19.00	19.02	19.08	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.64	20.82	20.82	21.5
5	QPSK	1	12	20.74	20.88	20.91	
5	QPSK	1	24	20.75	20.85	20.84	
5	QPSK	12	0	19.73	19.84	19.97	20.5
5	QPSK	12	7	19.81	19.85	19.92	
5	QPSK	12	13	19.80	19.84	19.85	
5	QPSK	25	0	19.80	19.78	19.87	20.5
5	16QAM	1	0	20.12	20.46	20.42	
5	16QAM	1	12	20.17	20.46	20.47	
5	16QAM	1	24	20.39	20.43	20.40	19.5
5	16QAM	12	0	18.93	19.01	19.13	
5	16QAM	12	7	18.89	18.94	19.08	
5	16QAM	12	13	18.97	18.98	18.92	20.5
5	16QAM	25	0	19.10	18.92	18.97	
5	64QAM	1	0	20.02	19.82	19.85	
5	64QAM	1	12	19.91	19.83	19.97	19.5
5	64QAM	1	24	19.93	19.87	19.92	
5	64QAM	12	0	18.92	18.81	18.85	
5	64QAM	12	7	19.00	18.82	18.83	19.5
5	64QAM	12	13	18.96	18.80	18.77	
5	64QAM	25	0	18.99	18.95	19.08	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	19.66	20.89	20.79	21.5
3	QPSK	1	8	20.68	20.81	20.78	
3	QPSK	1	14	20.80	20.89	20.80	
3	QPSK	8	0	19.82	19.82	19.95	20.5
3	QPSK	8	4	19.74	19.81	19.85	
3	QPSK	8	7	19.76	19.79	19.88	
3	QPSK	15	0	19.50	19.85	19.81	20.5
3	16QAM	1	0	20.33	20.36	20.36	
3	16QAM	1	8	20.38	20.36	20.30	
3	16QAM	1	14	20.41	20.45	20.38	19.5
3	16QAM	8	0	19.01	19.04	19.12	
3	16QAM	8	4	19.04	19.08	18.99	

3	16QAM	8	7	18.96	19.10	19.02	22.5
3	16QAM	15	0	18.94	19.16	18.90	
3	64QAM	1	0	19.69	20.30	19.98	
3	64QAM	1	8	19.62	20.35	19.88	21.5
3	64QAM	1	14	19.74	20.37	19.85	
3	64QAM	8	0	18.81	18.88	19.00	
3	64QAM	8	4	18.89	18.84	18.83	21.5
3	64QAM	8	7	18.83	18.89	18.83	
3	64QAM	15	0	18.99	18.98	19.01	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.72	20.77	20.81	21.5
1.4	QPSK	1	3	20.67	20.81	20.83	
1.4	QPSK	1	5	20.80	20.84	20.76	
1.4	QPSK	3	0	20.73	20.78	20.68	
1.4	QPSK	3	1	20.77	20.75	20.76	
1.4	QPSK	3	3	20.66	20.60	20.78	
1.4	QPSK	6	0	19.73	19.87	19.88	20.5
1.4	16QAM	1	0	19.89	20.39	20.35	
1.4	16QAM	1	3	20.13	20.21	20.32	20.5
1.4	16QAM	1	5	20.13	20.49	20.32	
1.4	16QAM	3	0	19.96	20.20	20.07	
1.4	16QAM	3	1	19.92	20.27	20.17	
1.4	16QAM	3	3	20.00	20.07	20.07	
1.4	16QAM	6	0	18.65	18.62	18.65	19.5
1.4	64QAM	1	0	19.99	20.33	19.82	20.5
1.4	64QAM	1	3	20.17	20.36	19.85	
1.4	64QAM	1	5	19.96	20.34	19.72	
1.4	64QAM	3	0	20.00	19.88	19.89	
1.4	64QAM	3	1	20.05	19.91	19.85	
1.4	64QAM	3	3	20.01	19.92	19.92	
1.4	64QAM	6	0	18.89	19.14	18.88	20.5

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	12.25	13.0	15	99.64
		CH 6	2437	12.68	13.0	15	
		CH 11	2462	13.33	13.5	15	
	802.11g 6Mbps	CH 1	2412	11.22	12.0	13	97.85
		CH 6	2437	11.92	12.5	13	
		CH 11	2462	12.71	13.0	13	
	802.11n-HT20 MCS0	CH 1	2412	10.59	11.0	13	97.52
		CH 6	2437	11.25	12.0	13	
		CH 11	2462	12.23	13.0	13	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	6.73	3.50	3.40
	CH 39	2441	6.39	3.66	3.73
	CH 78	2480	4.78	2.69	2.71
Tune-up Limit			7.0	4.0	4.0
Duty Cycle %			77.33	76.8	77.33