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Appendix B.1

GSM 850 & 1900



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Effective (Isotropic) Radiated Power Output Data

Test for spot check:

Test Result

Band	Channel	Conducted Power (dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GSM850	128	32.03	29.42	38.5	PASS
GSM850	190	32.11	29.50	38.5	PASS
GSM850	251	32.24	29.63	38.5	PASS
GSM1900	512	29.52	30.73	33	PASS
GSM1900	661	29.45	30.66	33	PASS
GSM1900	810	28.73	29.94	33	PASS



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Field Strength of Spurious Radiation

Test for spot check:

Test Band = GSM 850
Test Channel = Mid channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.5	69.86	-48.32	25.56	-48.15	-13.00	35.15	137	104	Horizontal
2	2509	60.80	-46.79	27.93	-53.31	-13.00	40.31	226	164	Horizontal
3	3345.5	57.93	-46.19	29.46	-54.06	-13.00	41.06	194	179	Horizontal
4	4182	45.81	-45.16	30.89	-63.72	-13.00	50.72	182	133	Horizontal
5	5018.4	39.84	-44.93	32.60	-67.75	-13.00	54.75	169	75	Horizontal
6	5854.8	40.57	-43.34	33.74	-64.29	-13.00	51.29	283	104	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1673	70.61	-48.32	25.56	-47.40	-13.00	34.40	159	122	Vertical
2	2509.5	62.26	-46.79	27.93	-51.86	-13.00	38.86	237	8	Vertical
3	3345.5	64.01	-46.19	29.46	-47.98	-13.00	34.98	155	255	Vertical
4	4182	49.02	-45.16	30.89	-60.51	-13.00	47.51	248	255	Vertical
5	5018.4	39.42	-44.93	32.60	-68.17	-13.00	55.17	199	136	Vertical
6	5854.8	40.69	-43.34	33.74	-64.17	-13.00	51.17	236	164	Vertical



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Test Band = GSM 1900**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	41.86	-45.54	30.03	-68.91	-13.00	55.91	157	0	Horizontal
2	5640	40.91	-43.81	33.05	-65.11	-13.00	52.11	206	246	Horizontal
3	7520	38.58	-41.53	36.54	-61.67	-13.00	48.67	209	198	Horizontal
4	9400	35.43	-38.16	38.56	-59.43	-13.00	46.43	147	0	Horizontal
5	11280	31.41	-35.28	39.32	-59.81	-13.00	46.81	185	278	Horizontal
6	13160	30.43	-34.68	39.70	-59.81	-13.00	46.81	166	7	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	42.95	-45.54	30.03	-67.82	-13.00	54.82	294	357	Vertical
2	5640	40.15	-43.81	33.05	-65.87	-13.00	52.87	186	262	Vertical
3	7520	39.08	-41.53	36.54	-61.17	-13.00	48.17	138	328	Vertical
4	9400	34.71	-38.16	38.56	-60.15	-13.00	47.15	265	328	Vertical
5	11280	30.95	-35.28	39.32	-60.27	-13.00	47.27	148	29	Vertical
6	13160	30.39	-34.68	39.70	-59.85	-13.00	46.85	182	1	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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