

Report No.: SEWM2302000050RG02

Rev.: 01

Page: 1 of 4

# Appendix B.1

## GSM 850 & 1900



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms--e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

## 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	31.90	29.07	38.5	PASS
GSM850	190	31.83	29.00	38.5	PASS
GSM850	251	31.85	29.02	38.5	PASS
GSM1900	512	29.00	30.61	33	PASS
GSM1900	661	28.98	30.59	33	PASS
GSM1900	810	28.99	30.60	33	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/terms-and-conditions/terms-e-document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

## 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	1673	69.54	-48.32	25.56	-48.47	-13.00	35.47	174	302	Horizontal
2	2509	56.08	-46.79	27.93	-58.03	-13.00	45.03	215	37	Horizontal
3	3345.5	52.32	-46.19	29.46	-59.67	-13.00	46.67	203	12	Horizontal
4	4182	41.64	-45.16	30.89	-67.89	-13.00	54.89	198	272	Horizontal
5	5018.4	40.95	-44.93	32.60	-66.64	-13.00	53.64	224	186	Horizontal
6	5854.8	42.50	-43.34	33.74	-62.36	-13.00	49.36	147	37	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	1672.8	71.29	-48.32	25.56	-46.72	-13.00	33.72	209	246	Vertical
2	2509.2	61.14	-46.79	27.93	-52.98	-13.00	39.98	163	74	Vertical
3	3345.6	52.34	-46.19	29.46	-59.65	-13.00	46.65	189	3	Vertical
4	4182	42.62	-45.16	30.89	-66.91	-13.00	53.91	226	145	Vertical
5	5018.4	40.47	-44.93	32.60	-67.12	-13.00	54.12	152	360	Vertical
6	5854.8	42.10	-43.34	33.74	-62.76	-13.00	49.76	258	117	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/terms-and-conditions/terms-e-document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) PkI Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn  
 中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号6号厂房南楼 邮编：215000 t (86-512) 62992980 sgs.china@sgs.com

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	43.05	-45.54	30.03	-67.72	-13.00	54.72	150	98	Horizontal
2	5640	40.23	-43.81	33.05	-65.79	-13.00	52.79	219	0	Horizontal
3	7520	38.49	-41.53	36.54	-61.76	-13.00	48.76	206	33	Horizontal
4	9400	35.51	-38.16	38.56	-59.35	-13.00	46.35	274	162	Horizontal
5	11280	31.43	-35.28	39.32	-59.79	-13.00	46.79	162	114	Horizontal
6	13160	31.37	-34.68	39.70	-58.87	-13.00	45.87	183	261	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	42.03	-45.54	30.03	-68.74	-13.00	55.74	168	0	Vertical
2	5640	40.18	-43.81	33.05	-65.84	-13.00	52.84	255	154	Vertical
3	7520	38.78	-41.53	36.54	-61.47	-13.00	48.47	193	248	Vertical
4	9400	35.51	-38.16	38.56	-59.35	-13.00	46.35	268	329	Vertical
5	11280	31.42	-35.28	39.32	-59.80	-13.00	46.80	147	68	Vertical
6	13160	31.23	-34.68	39.70	-59.01	-13.00	46.01	152	296	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/terms-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/terms-and-conditions/terms-e-document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com  
 South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pkft Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn  
 中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区胜浦路1号6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com