



Appendix B

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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



CONTENT

	Page
1. EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....	4
1.1. Test Result.....	4
2. PEAK-TO-AVERAGE RATIO.....	6
2.1. Test Result.....	6
2.2. Part II - Test Plots.....	7
3. MODULATION CHARACTERISTICS.....	19
3.1. For GSM.....	19
3.1.1. Test Band = GSM 850.....	19
3.1.1.1. Test Mode = GSM/TM1.....	19
3.1.1.1.1. Test Channel = MCH.....	19
3.1.1.1.2. Test Mode = GSM/TM2.....	20
3.1.1.1.2.1. Test Channel = MCH.....	20
3.1.2. Test Band = GSM 1900.....	21
3.1.2.1. Test Mode = GSM/TM1.....	21
3.1.2.1.1. Test Channel = MCH.....	21
3.1.2.1.2. Test Mode = GSM/TM2.....	22
3.1.2.1.2.1. Test Channel = MCH.....	22
4. 26dB BANDWIDTH AND OCCUPIED BANDWIDTH.....	23
4.1. Test Result.....	23
4.2. Test Plots.....	23
5. BAND EDGE COMPLIANCE.....	30
5.1. Test Plots.....	30
6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....	34
6.1. Test Plots.....	34
7. FIELD STRENGTH OF SPURIOUS RADIATION.....	64
7.1. Test Band = GSM 1900.....	64
7.1.1. Test Channel = LCH.....	64
7.1.2. Test Channel = MCH.....	64
7.1.3. Test Channel = HCH.....	65
7.2. Test Band = GSM 850.....	65
7.2.1. Test Channel = LCH.....	65
7.2.2. Test Channel = MCH.....	66



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
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



7.2.3. Test Channel = HCH.....	66
8. FREQUENCY STABILITY.....	67
8.1. Frequency Error Vs Voltage.....	67
8.2. Frequency Error Vs Temperature.....	68



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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.21	30.56	38.45	PASS
GSM850	190	---	32.34	30.69	38.45	PASS
GSM850	251	---	32.50	30.85	38.45	PASS
EGPRS850	128	1	25.20	23.55	38.45	PASS
EGPRS850	128	2	24.28	22.63	38.45	PASS
EGPRS850	128	3	22.46	20.81	38.45	PASS
EGPRS850	128	4	21.05	19.40	38.45	PASS
EGPRS850	190	1	25.29	23.64	38.45	PASS
EGPRS850	190	2	24.47	22.82	38.45	PASS
EGPRS850	190	3	22.42	20.77	38.45	PASS
EGPRS850	190	4	21.41	19.76	38.45	PASS
EGPRS850	251	1	25.33	23.68	38.45	PASS
EGPRS850	251	2	24.59	22.94	38.45	PASS
EGPRS850	251	3	22.62	20.97	38.45	PASS
EGPRS850	251	4	21.43	19.78	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	30.84	31.84	33.00	PASS
GSM1900	661	---	30.74	31.74	33.00	PASS
GSM1900	810	---	30.25	31.25	33.00	PASS
EGPRS1900	512	1	26.19	27.19	33.00	PASS
EGPRS1900	512	2	25.40	26.40	33.00	PASS
EGPRS1900	512	3	23.21	24.21	33.00	PASS
EGPRS1900	512	4	22.02	23.02	33.00	PASS
EGPRS1900	661	1	26.02	27.02	33.00	PASS
EGPRS1900	661	2	25.38	26.38	33.00	PASS
EGPRS1900	661	3	23.37	24.37	33.00	PASS
EGPRS1900	661	4	22.34	23.34	33.00	PASS
EGPRS1900	810	1	24.92	25.92	33.00	PASS
EGPRS1900	810	2	24.34	25.34	33.00	PASS
EGPRS1900	810	3	22.08	23.08	33.00	PASS
EGPRS1900	810	4	21.23	22.23	33.00	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-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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, EMC Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	7.68	13	PASS
GSM850	190	7.65	13	PASS
GSM850	251	7.71	13	PASS
EGPRS850	128	10.67	13	PASS
EGPRS850	190	10.96	13	PASS
EGPRS850	251	10.70	13	PASS
GSM1900	512	7.77	13	PASS
GSM1900	661	7.71	13	PASS
GSM1900	810	7.74	13	PASS
EGPRS1900	512	10.64	13	PASS
EGPRS1900	661	9.97	13	PASS
EGPRS1900	810	10.81	13	PASS

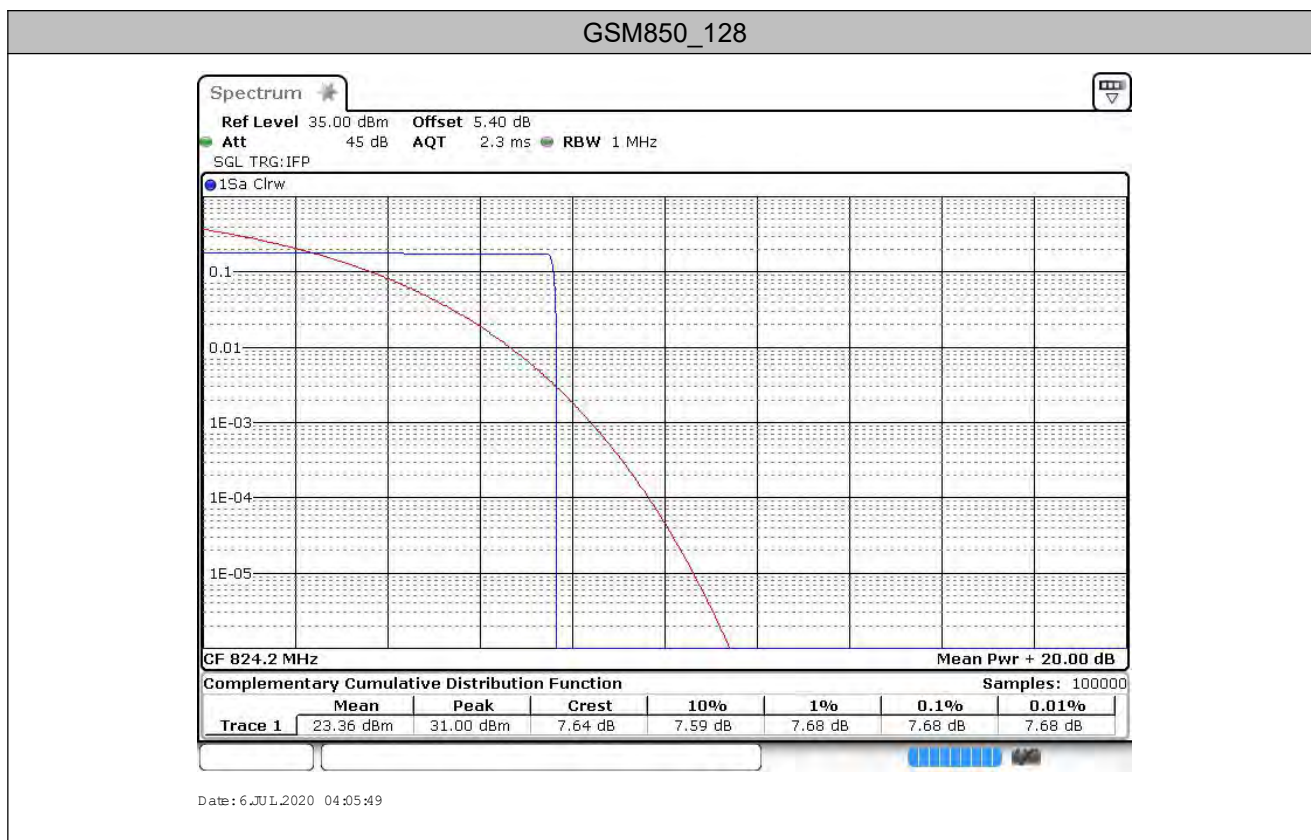


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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.

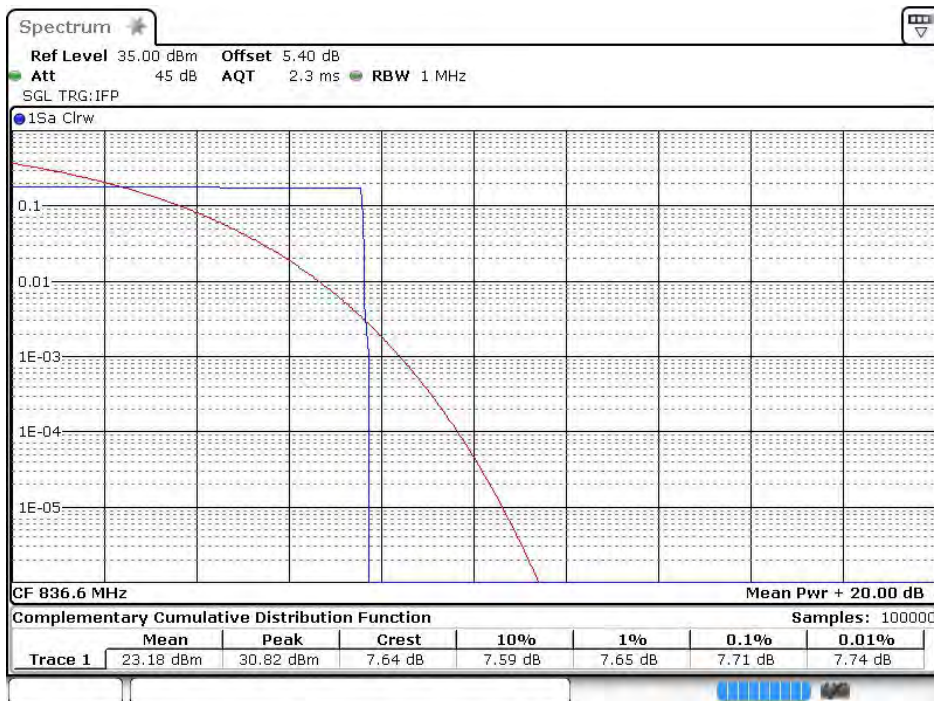
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



2.2.Part II - Test Plots



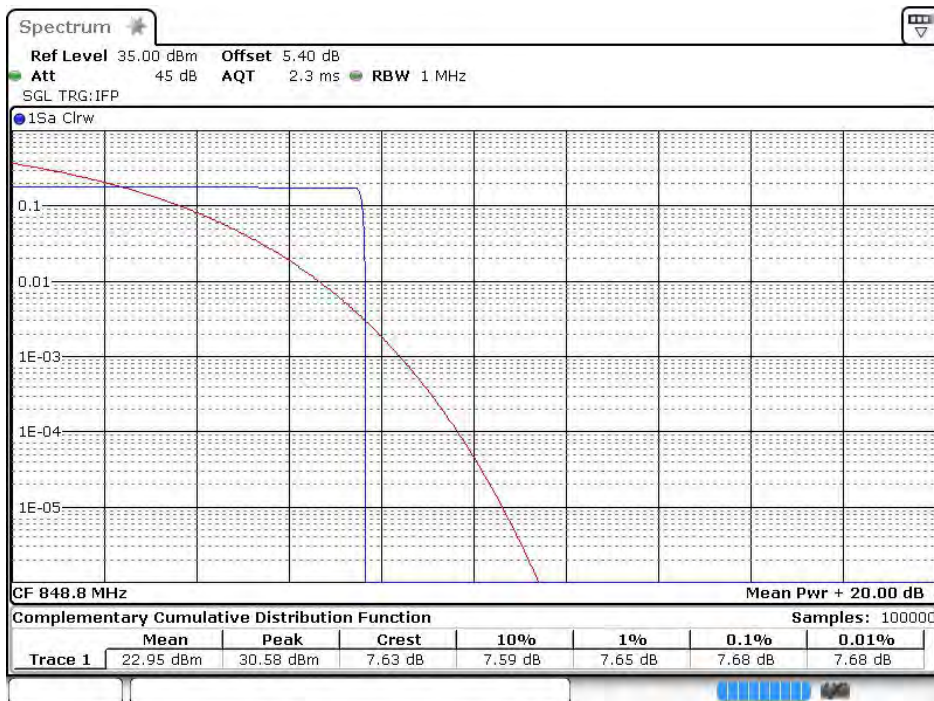
GSM850_190



Date: 6 JUL 2020 04:06:17



GSM850_251

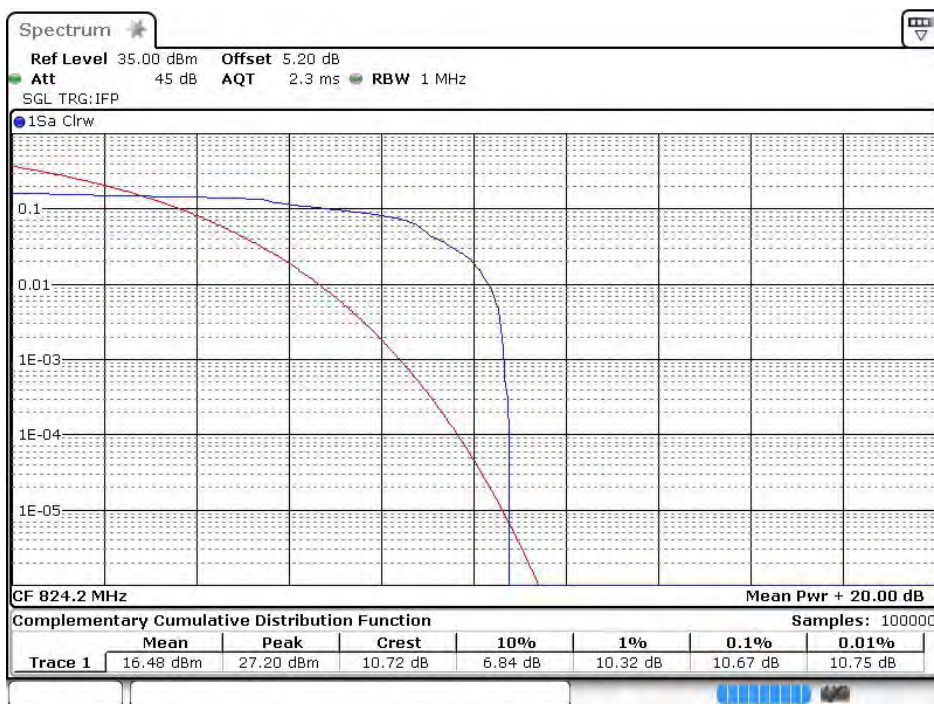


Date: 6 JUL 2020 04:06:44





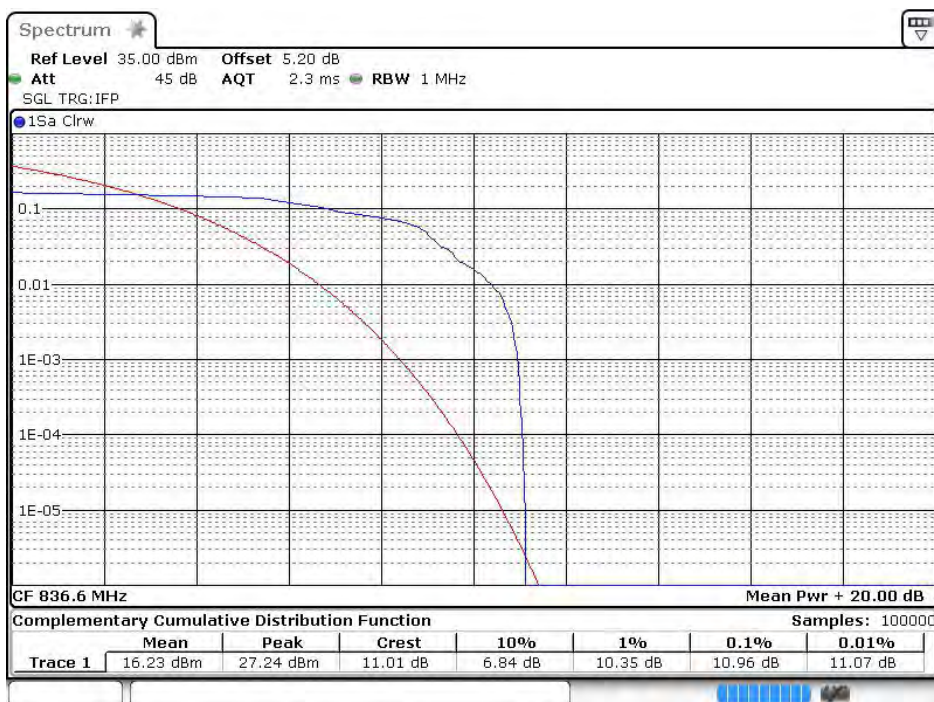
EGPRS850_128



Date: 6 JUL 2020 03:24:22



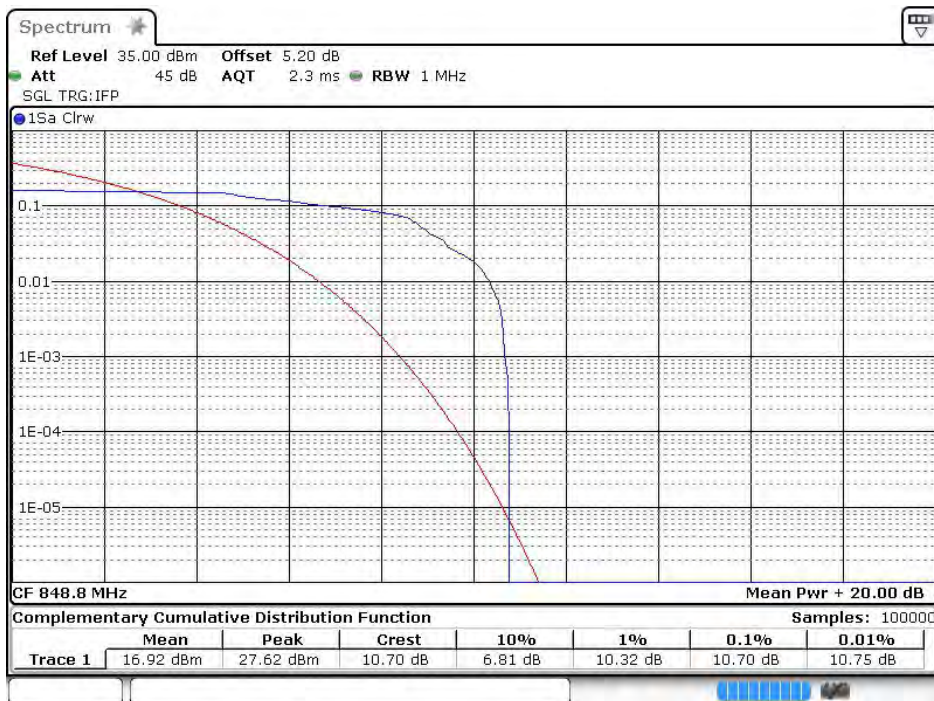
EGPRS850_190



Date: 6 JUL 2020 03:25:09



EGPRS850_251



Date: 6 JUL 2020 03:25:37

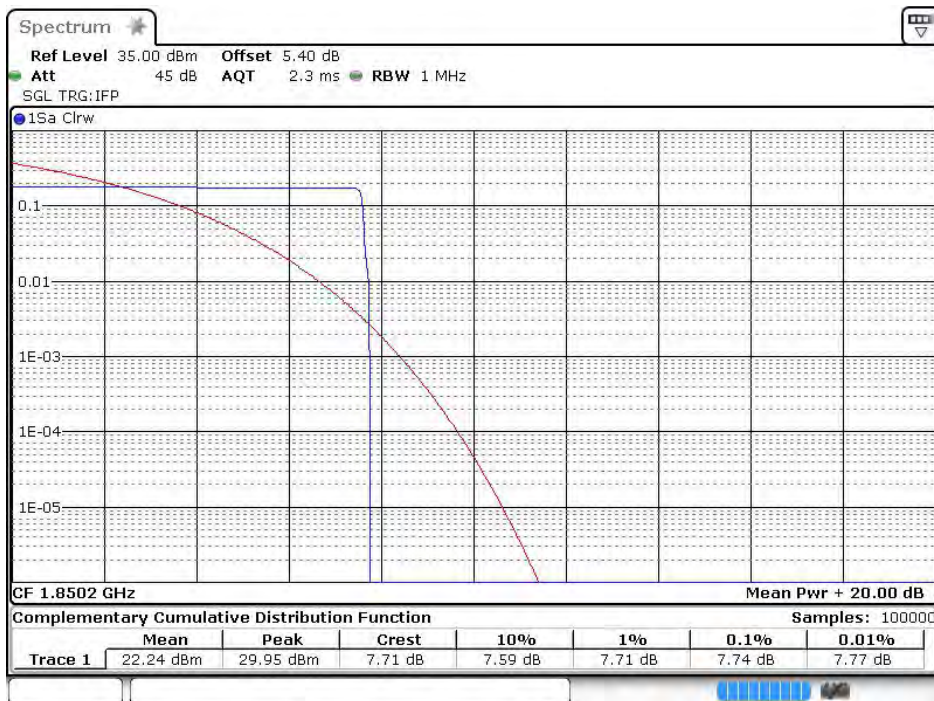


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC Laboratory)

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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

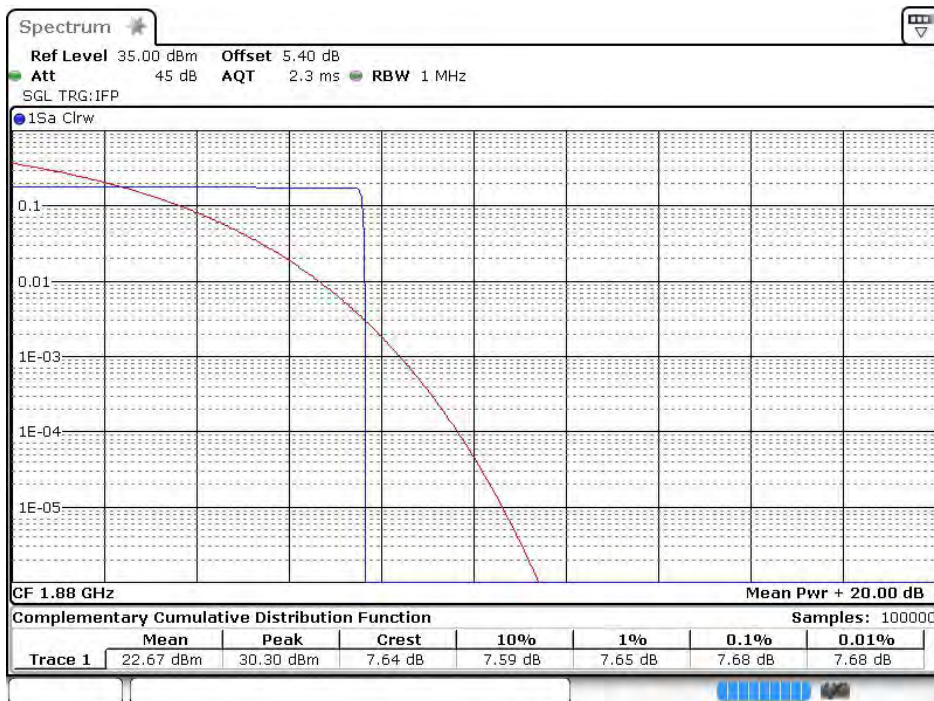
GSM1900_512



Date: 6 JUL 2020 03:45:14



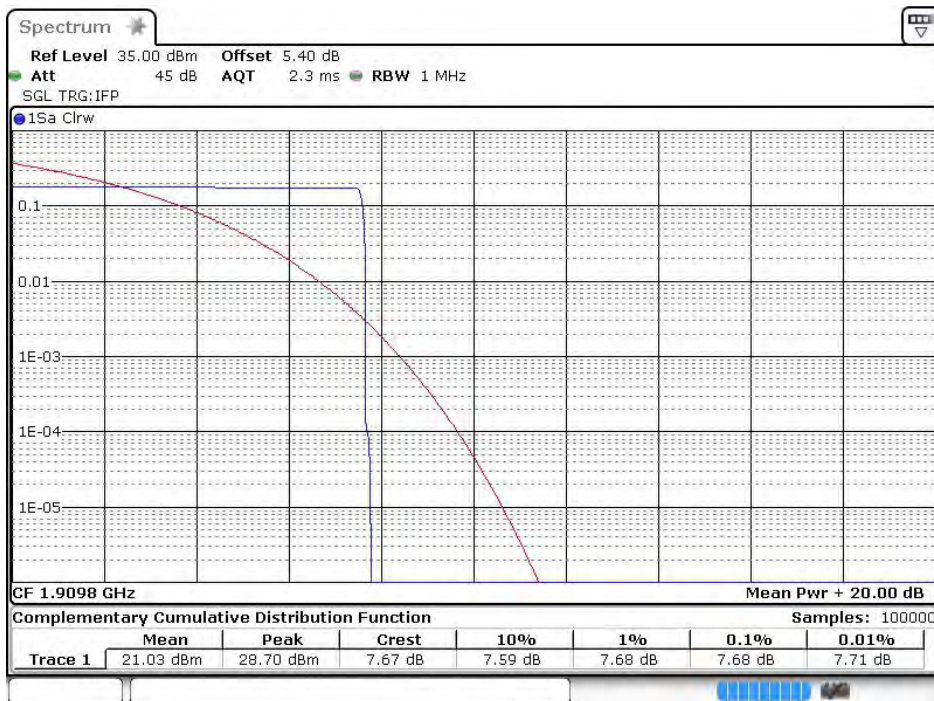
GSM1900_661



Date: 6 JUL 2020 03:45:42



GSM1900_810



Date: 6 JUL 2020 03:46:09

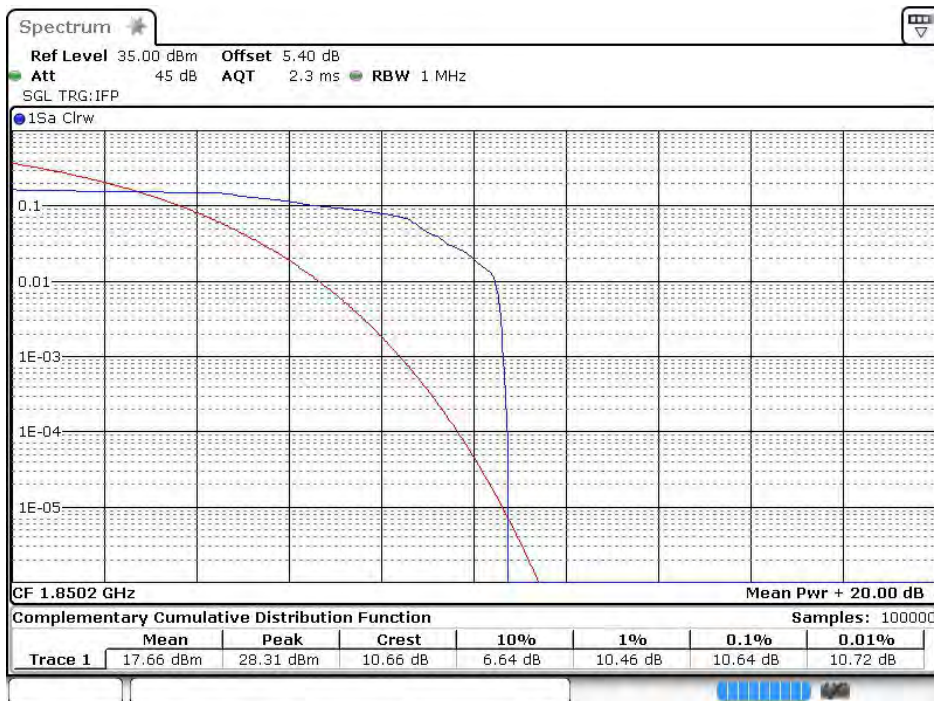


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC Laboratory)

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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

EGPRS1900_512

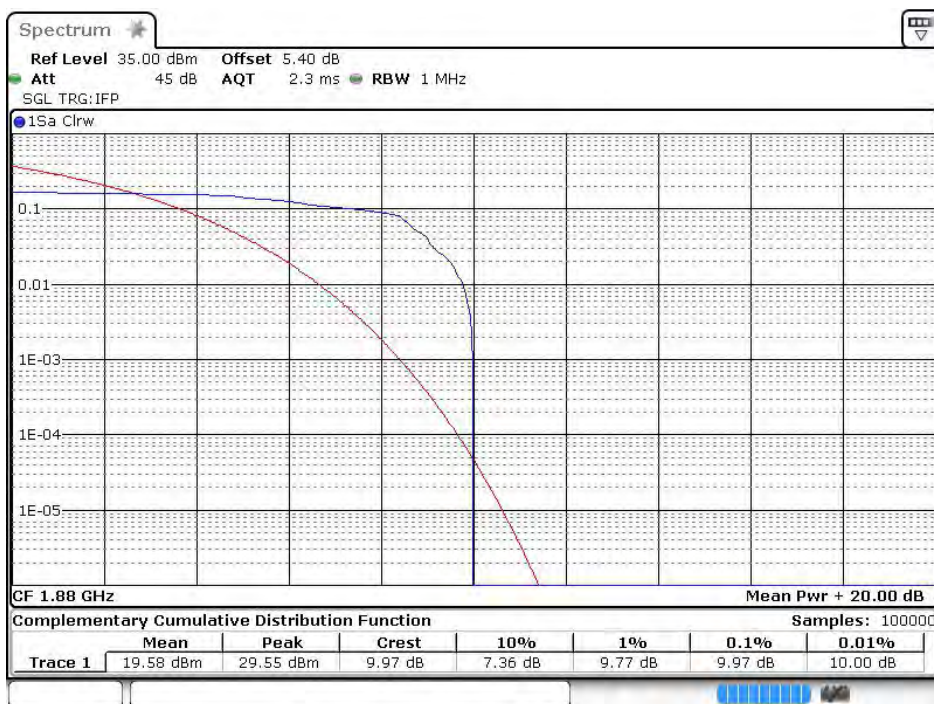


Date: 6 JUL 2020 03:04:04





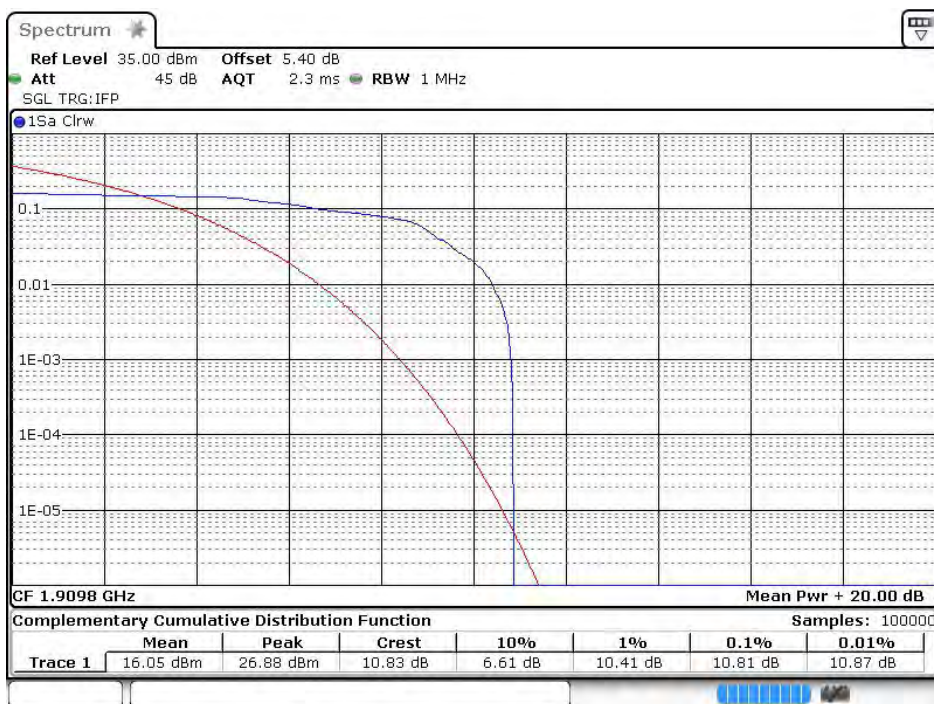
EGPRS1900_661



Date: 6 JUL 2020 03:04:32



EGPRS1900_810



Date: 6 JUL 2020 03:04:59



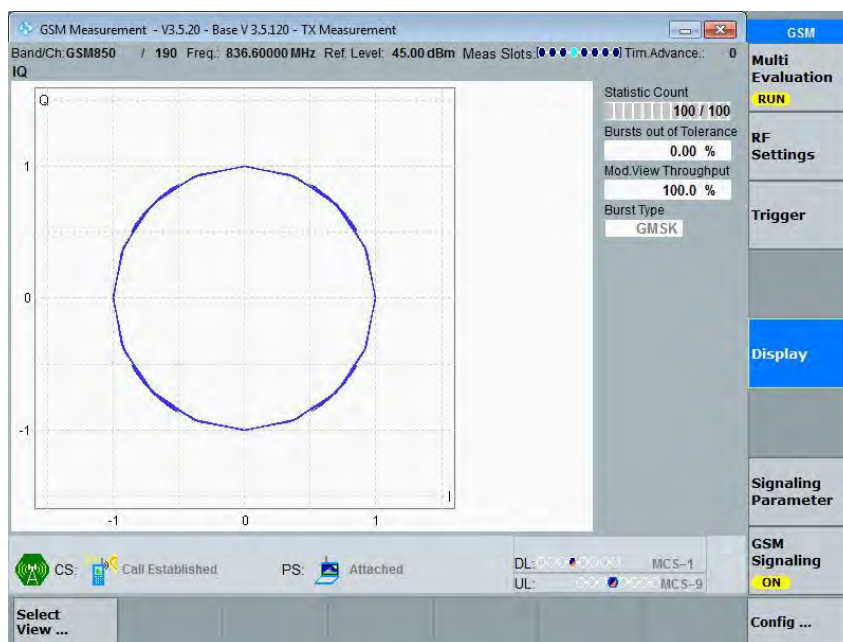
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

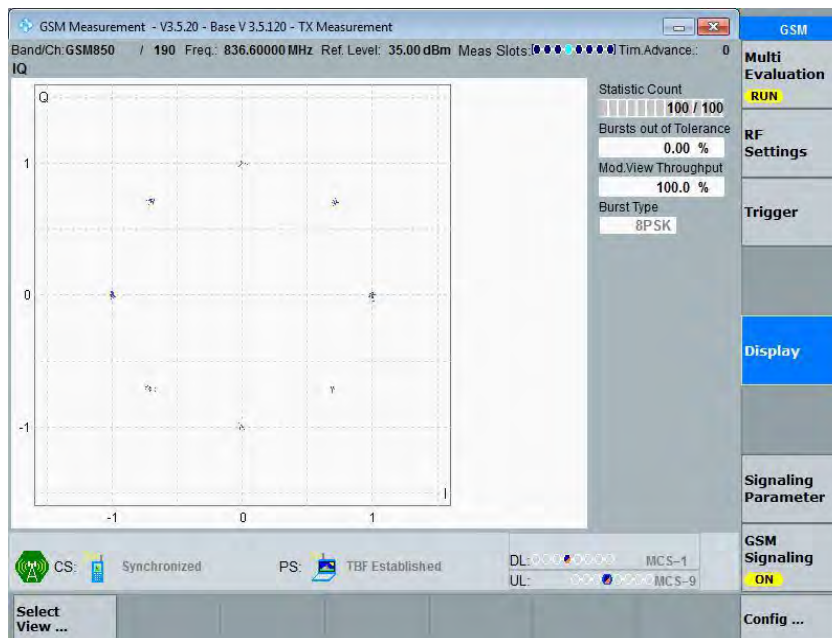
3.1.1.1.1. Test Channel = MCH





3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

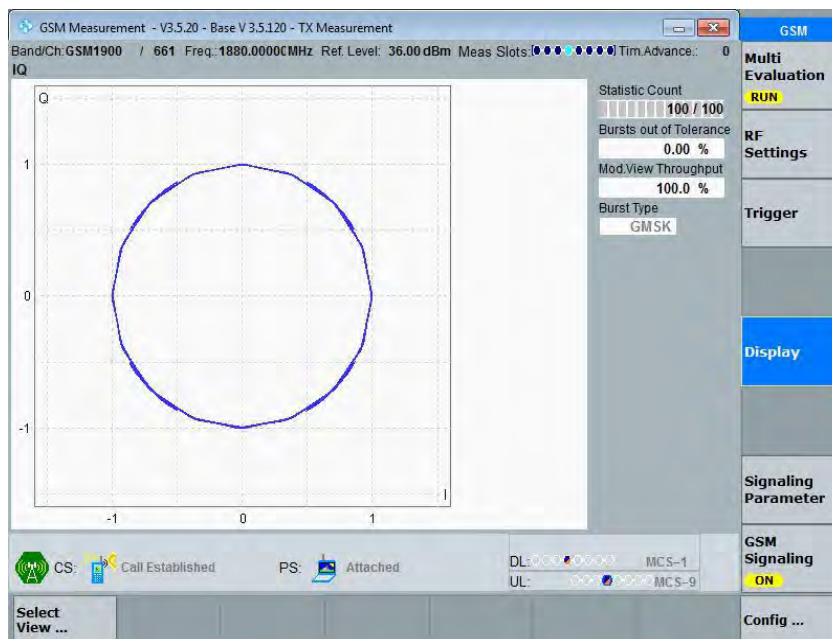
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

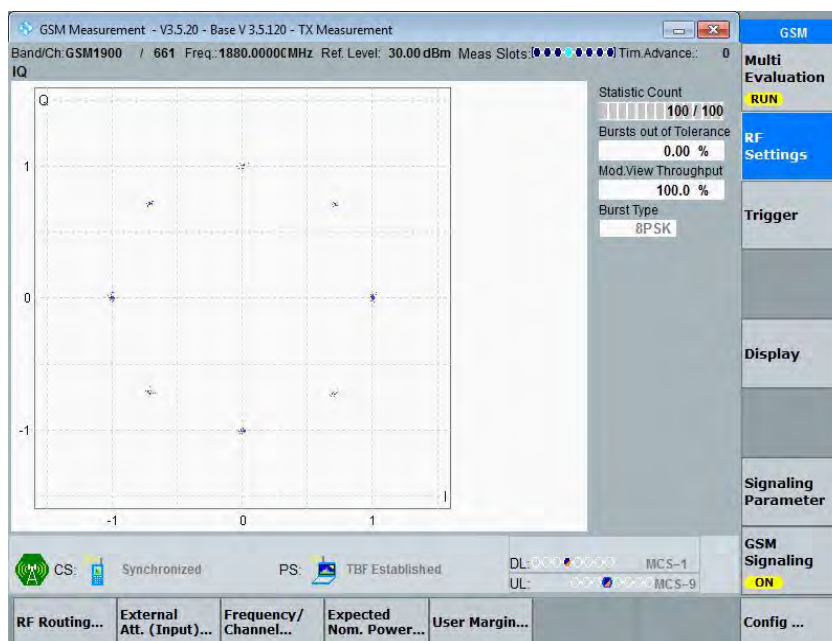
3.1.2.1.1. Test Channel = MCH





3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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.

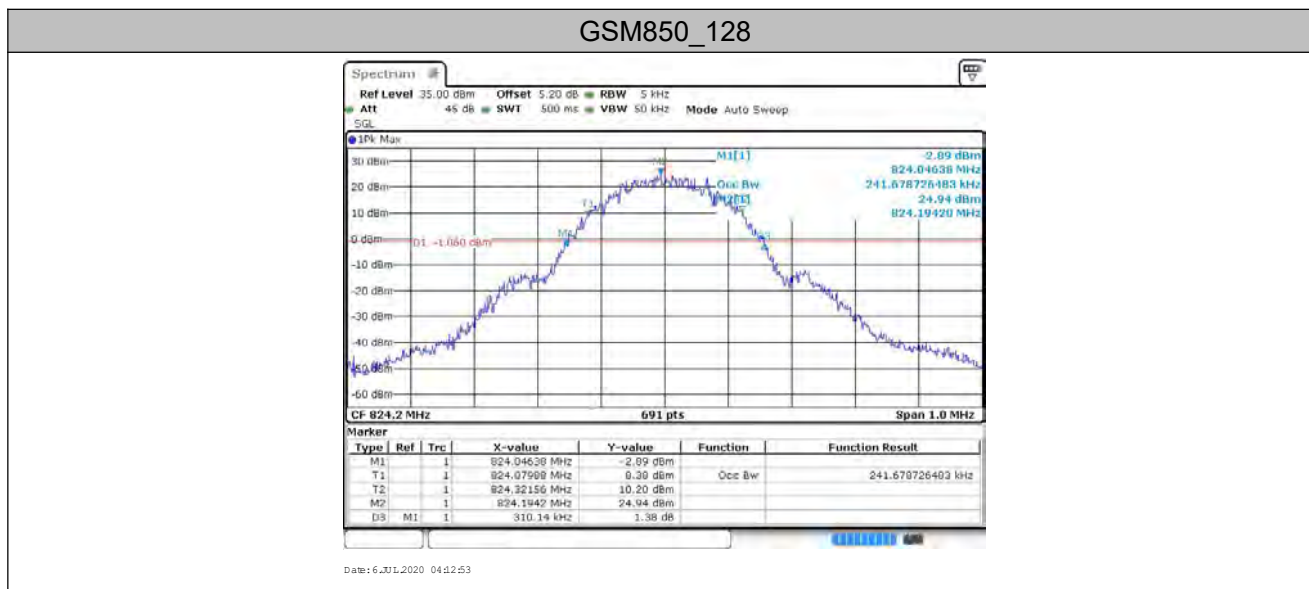


4. 26dB Bandwidth and Occupied Bandwidth

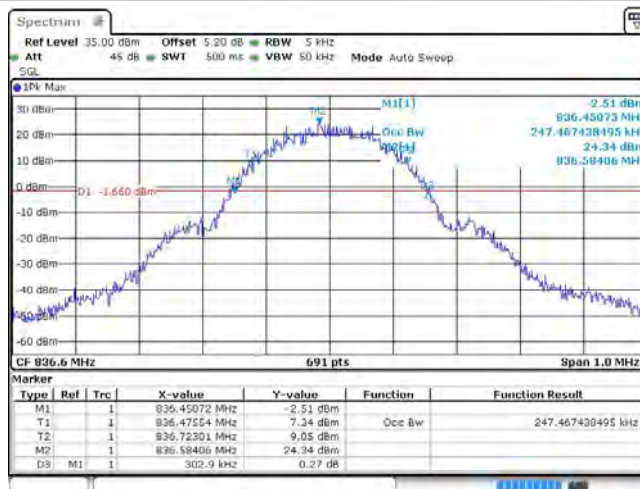
4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	241.68	310.14	---	PASS
GSM850	190	247.47	302.90	---	PASS
GSM850	251	244.57	313.04	---	PASS
EGPRS850	128	257.60	310.14	---	PASS
EGPRS850	190	250.36	304.35	---	PASS
EGPRS850	251	248.91	304.35	---	PASS
GSM1900	512	244.57	300.00	---	PASS
GSM1900	661	246.02	305.80	---	PASS
GSM1900	810	244.57	307.25	---	PASS
EGPRS1900	512	246.02	298.55	---	PASS
EGPRS1900	661	251.81	315.94	---	PASS
EGPRS1900	810	248.91	308.70	---	PASS

4.2. Test Plots



GSM850_190



Date: 6 JUL 2020 04:33:19

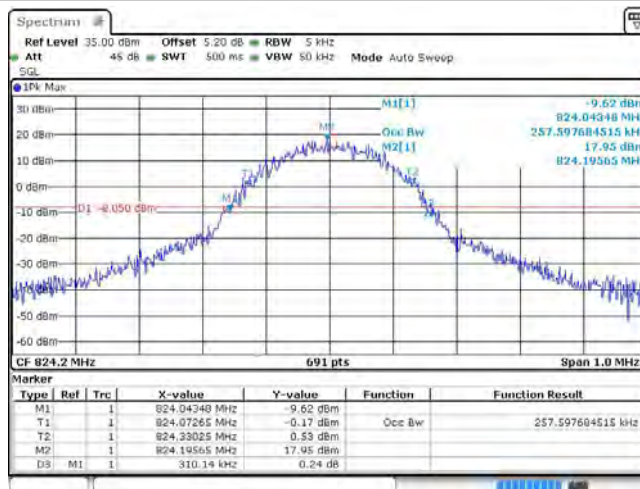
GSM850_251



Date: 6 JUL 2020 04:33:45

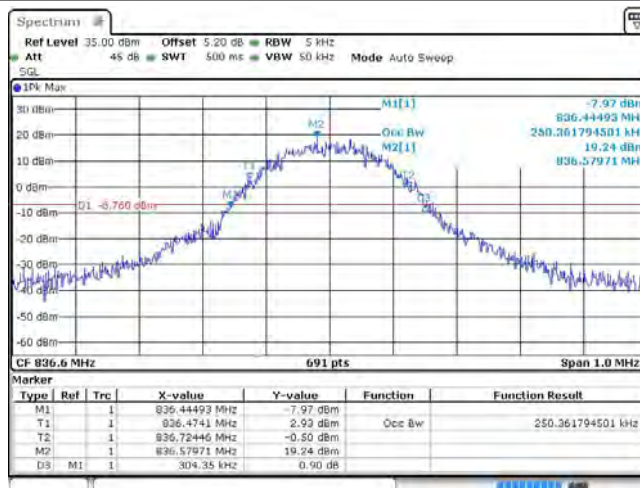


EGPRS850_128



Date: 6 JUL 2020 03:17:10

EGPRS850_190



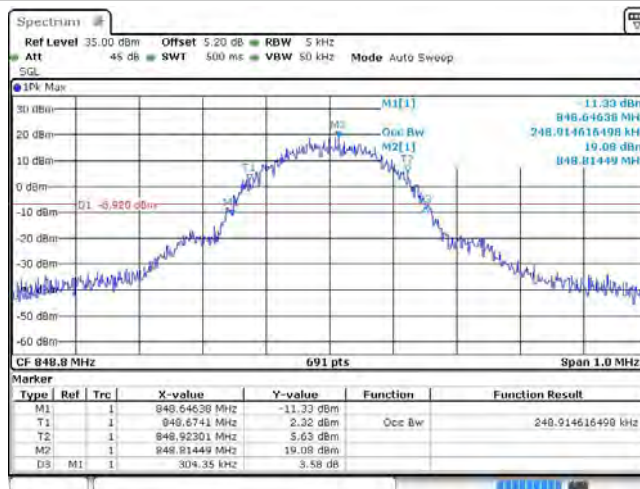
Date: 6 JUL 2020 03:18:56



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.

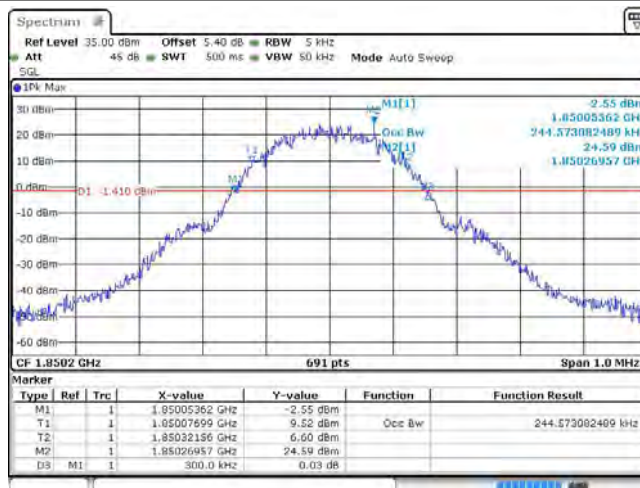
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

EGPRS850_251



Date: 6 JUL 2020 03:19:24

GSM1900_512



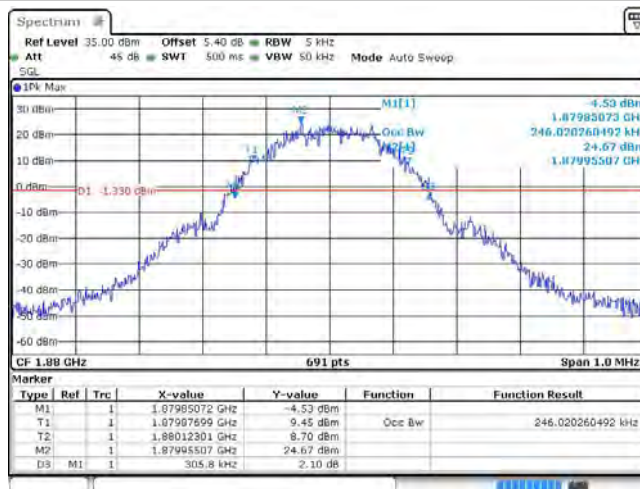
Date: 6 JUL 2020 03:38:14



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.

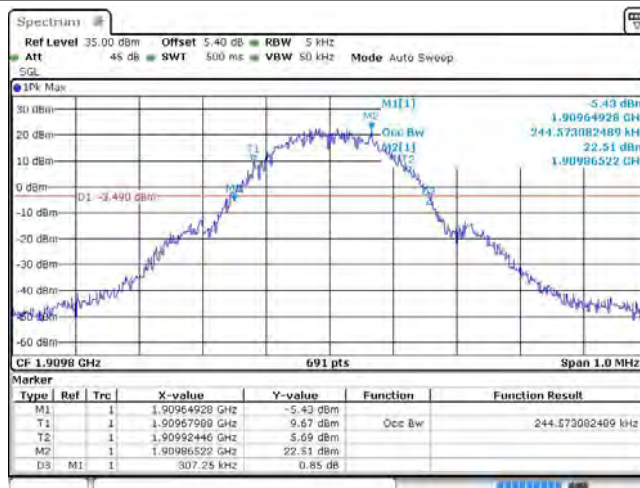
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

GSM1900_661



Date: 6 JUL 2020 03:38:39

GSM1900_810



Date: 6 JUL 2020 03:39:05



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.

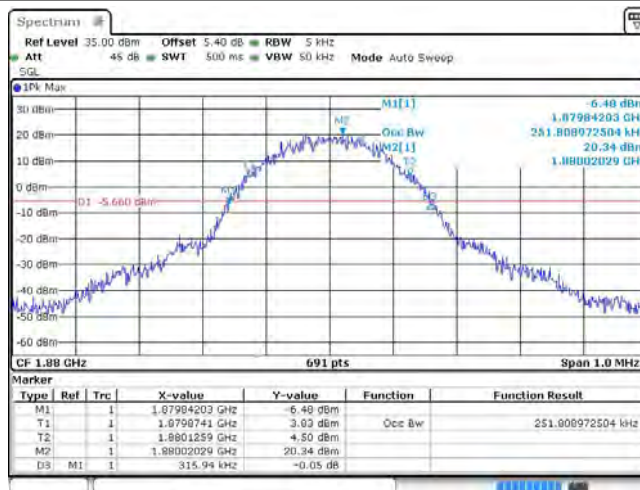
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

EGPRS1900_512



Date: 6 JUL 2020 02:57:04

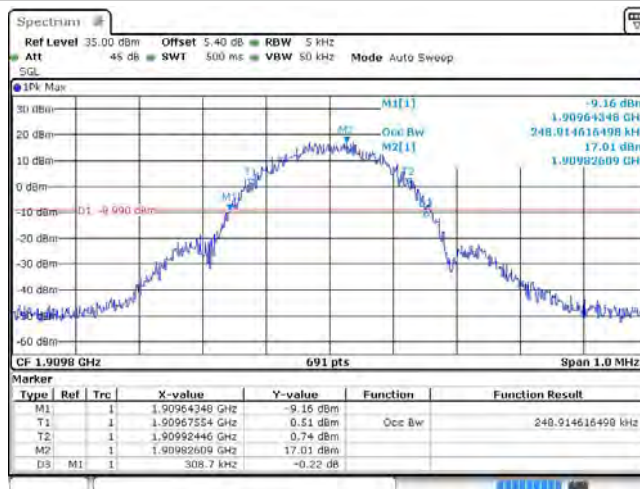
EGPRS1900_661



Date: 6 JUL 2020 02:57:01



EGPRS1900_810



Date: 6 JUL 2020 02:57:59





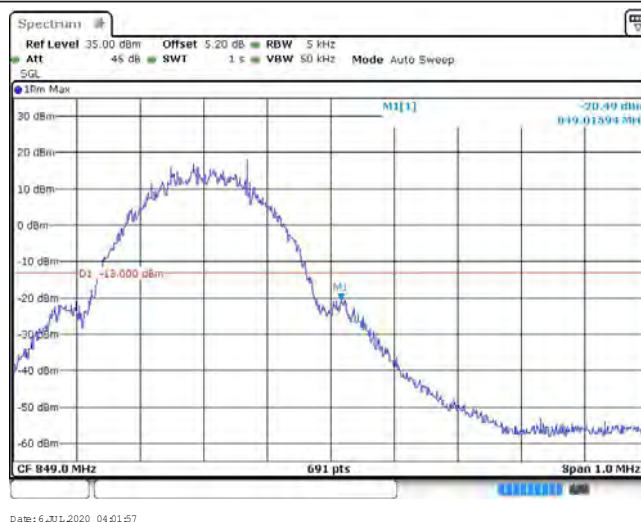
5. Band Edge Compliance

5.1. Test Plots

GSM850_128

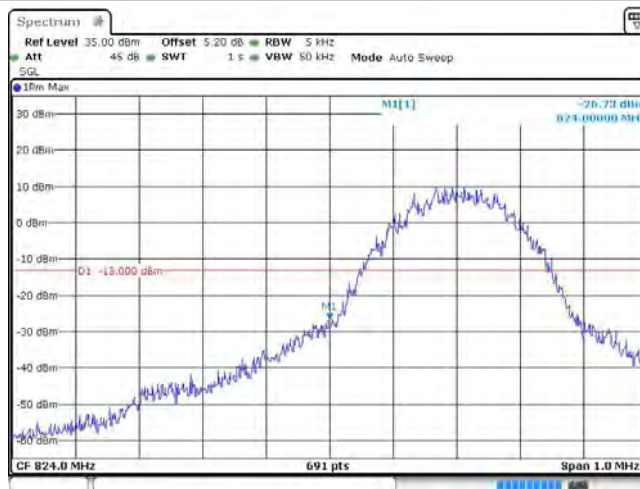


GSM850_251



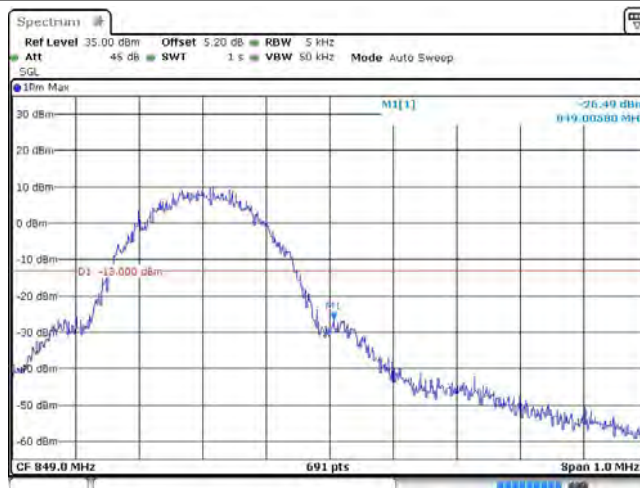


EGPRS850_128



Date: 6 JUL 2020 03:20:05

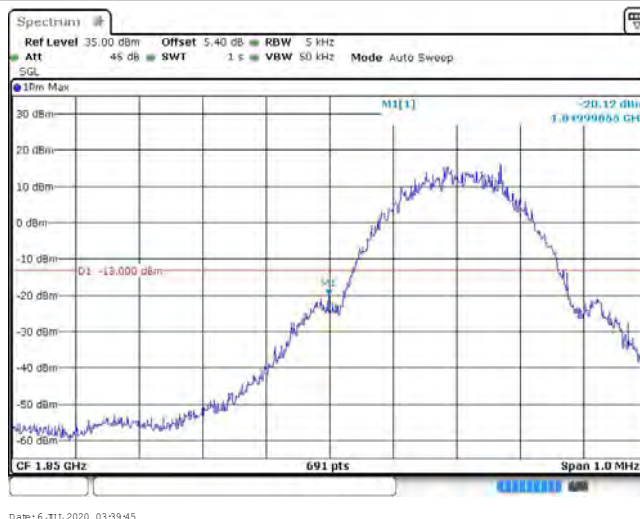
EGPRS850_251



Date: 6 JUL 2020 03:20:39

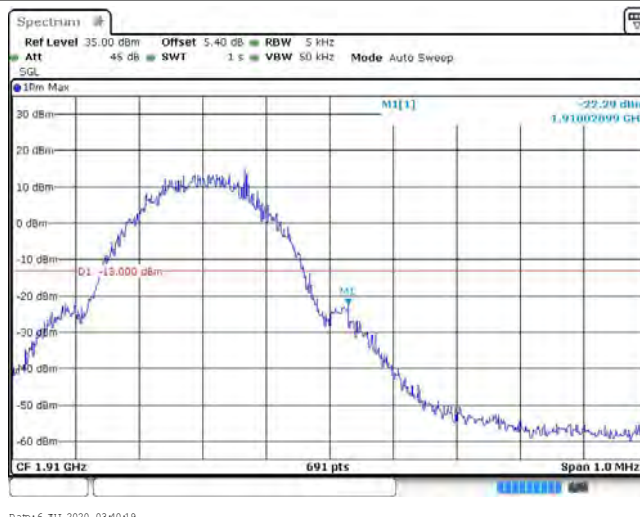


GSM1900_512



Date: 6 JUL 2020 03:39:45

GSM1900_810



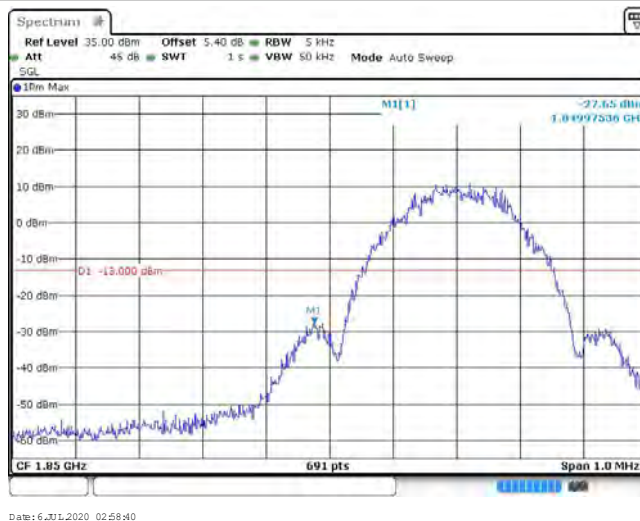
Date: 6 JUL 2020 03:40:19



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.

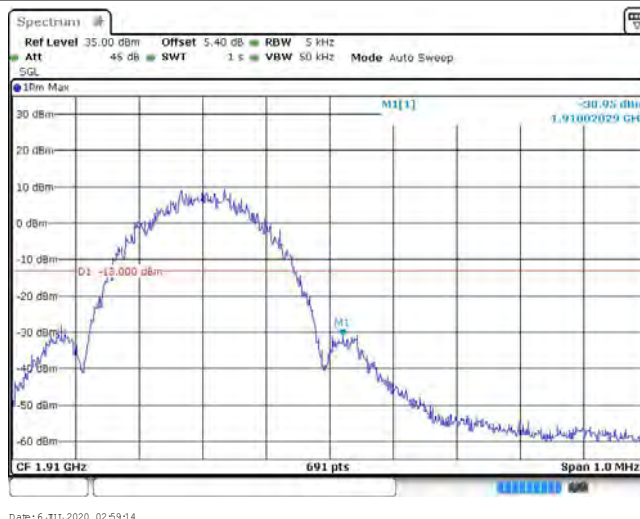
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

EGPRS1900_512



Date: 6 JUL 2020 02:58:40

EGPRS1900_810



Date: 6 JUL 2020 02:59:14



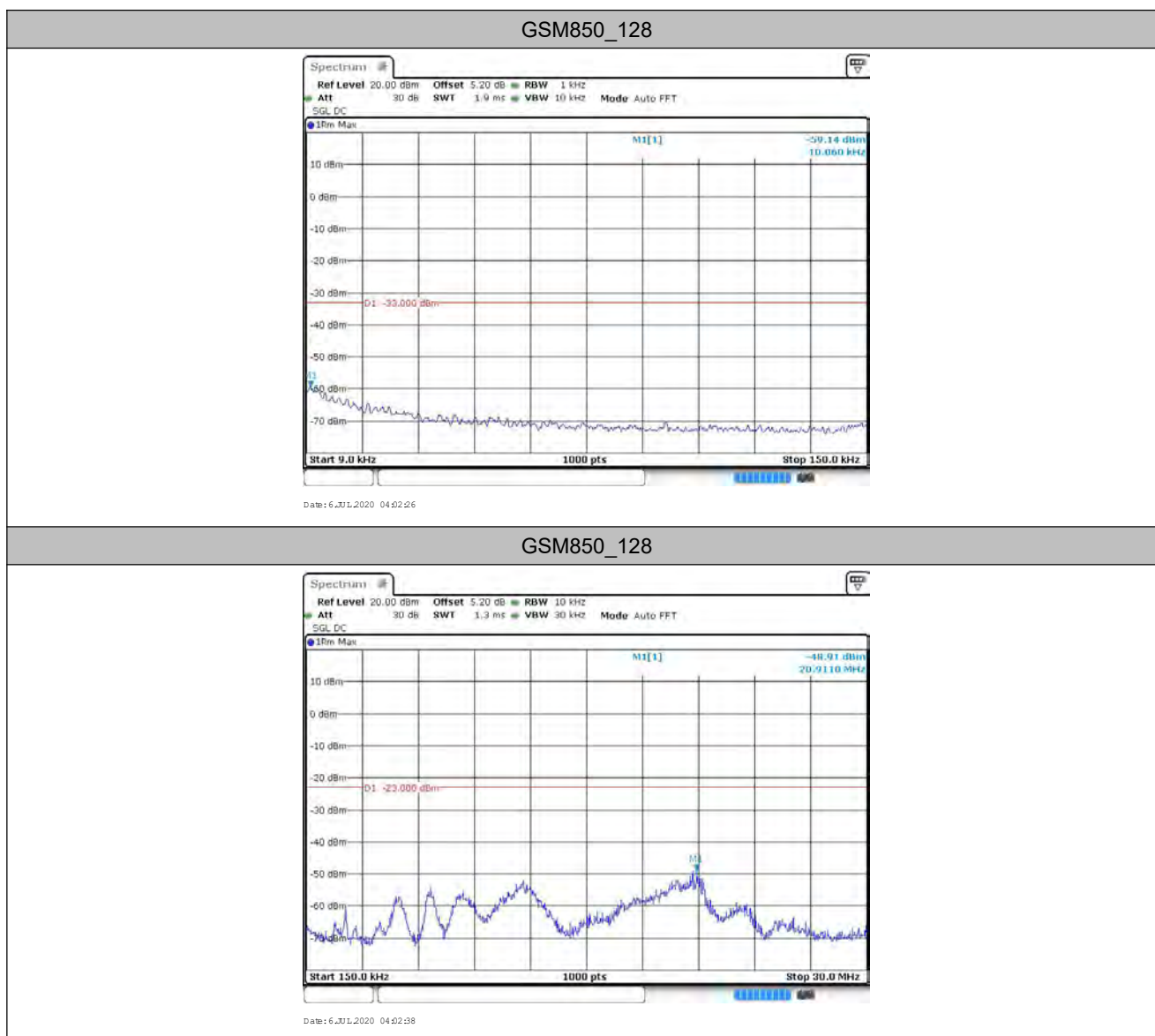


6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots

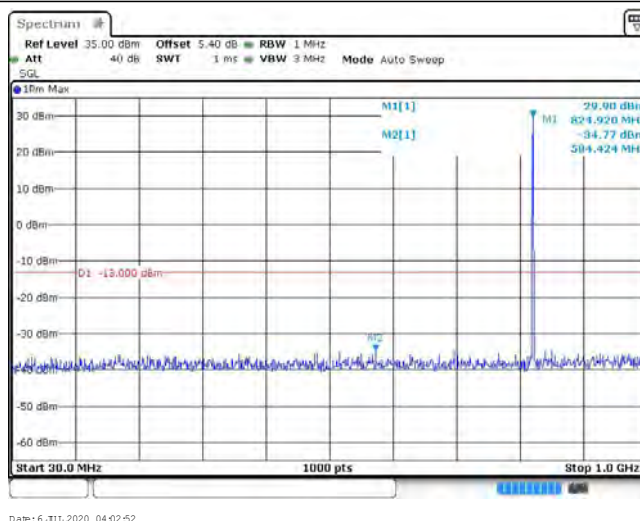


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

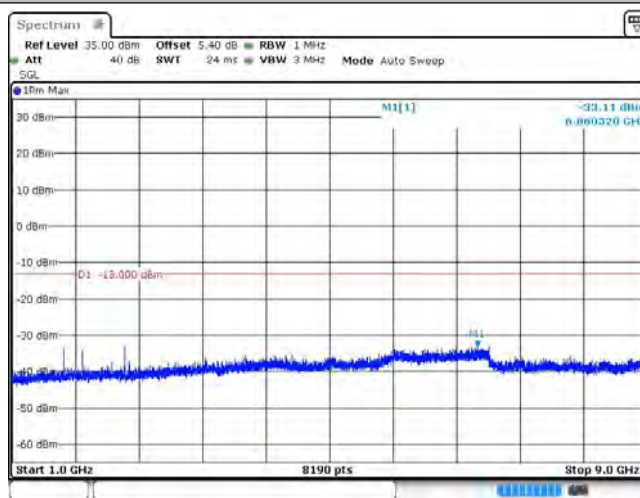


GSM850_128



Date: 6 JUL 2020 04:02:52

GSM850_128

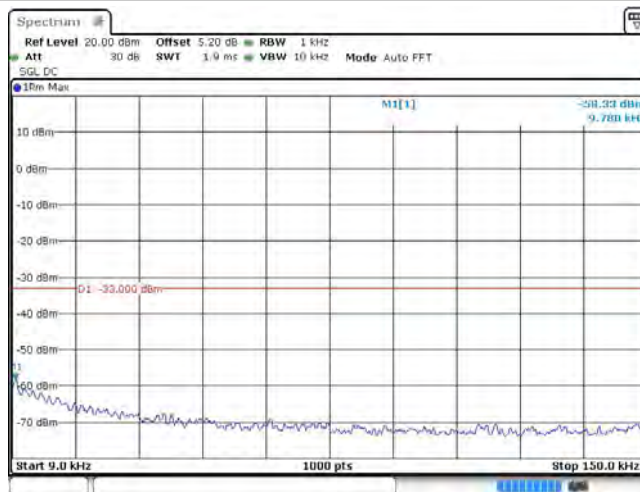


Date: 6 JUL 2020 04:03:04



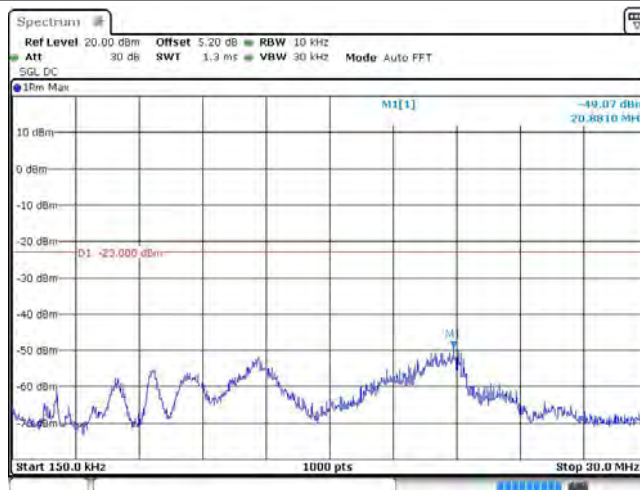


GSM850_190



Date: 6 JUL 2020 04:03:24

GSM850_190



Date: 6 JUL 2020 04:03:36

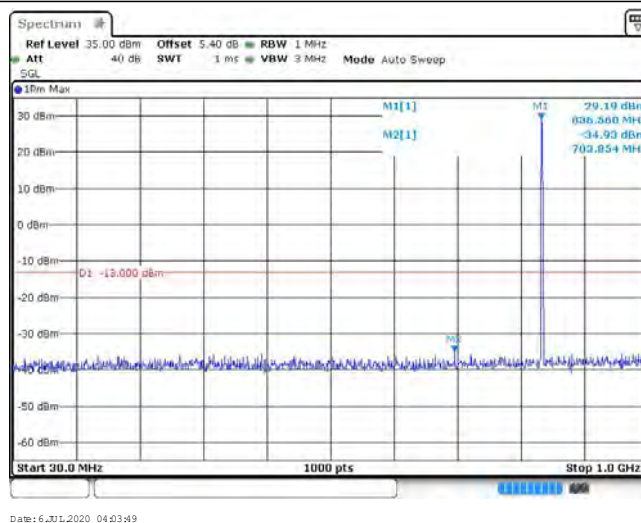


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

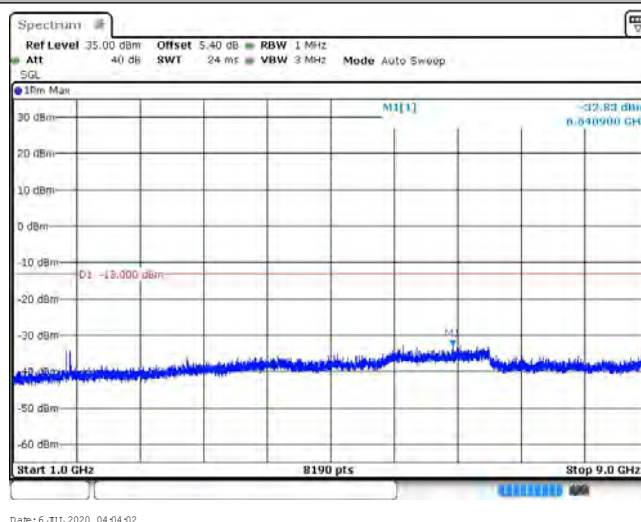
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



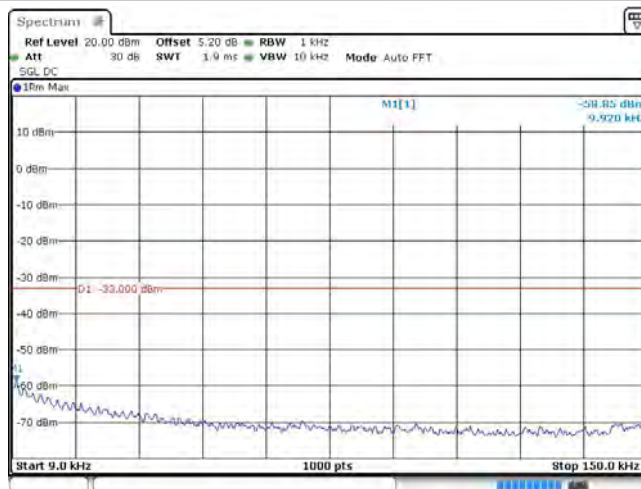
GSM850_190



GSM850_190

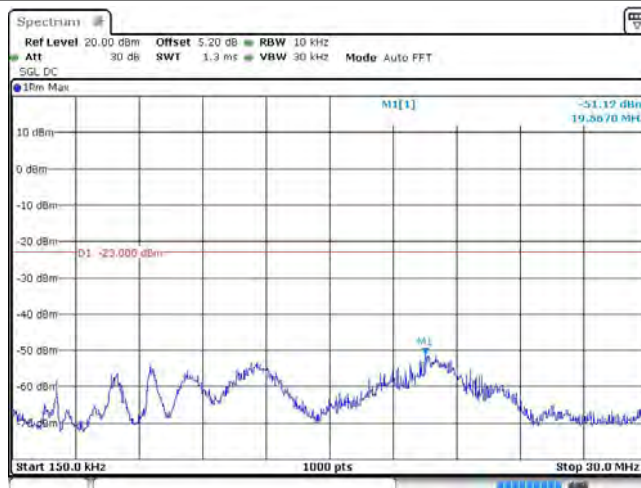


GSM850_251



Date: 6 JUL 2020 04:04:21

GSM850_251



Date: 6 JUL 2020 04:04:34

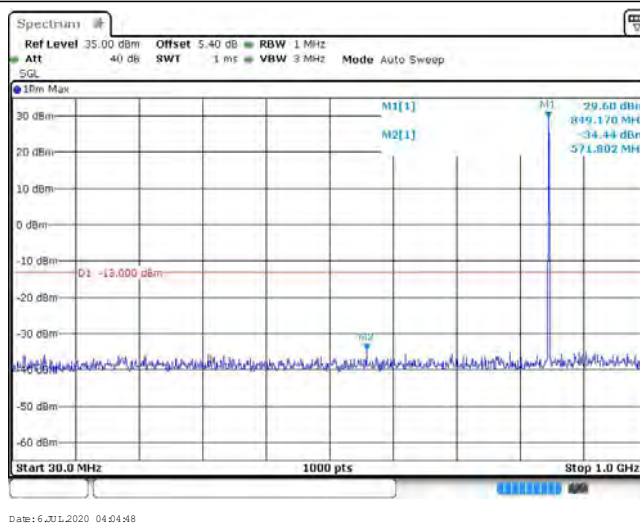


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

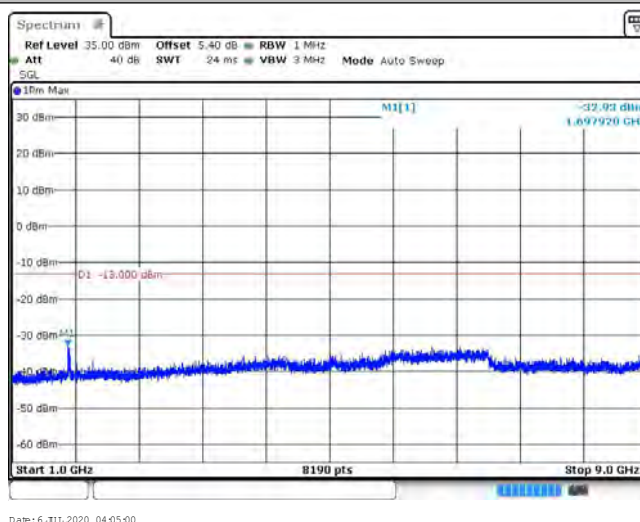


GSM850_251



Date: 6 JUL 2020 04:04:48

GSM850_251



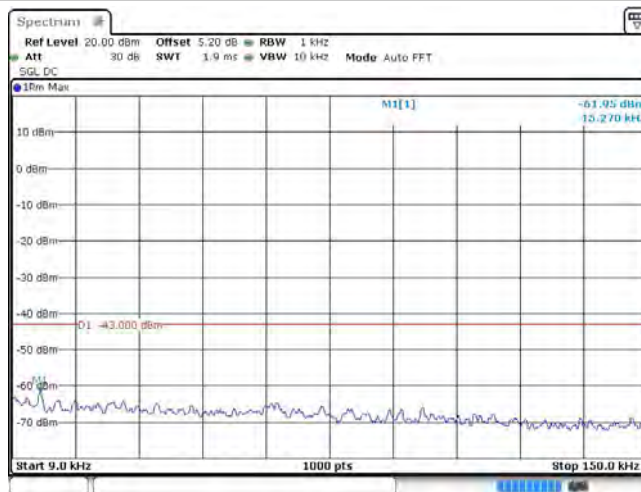
Date: 6 JUL 2020 04:05:00



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.

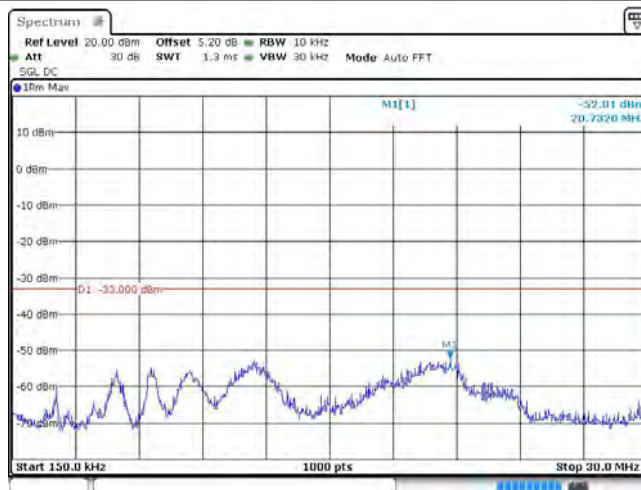
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

EGPRS850_128



Date: 6 JUL 2020 03:21:06

EGPRS850_128



Date: 6 JUL 2020 03:21:08

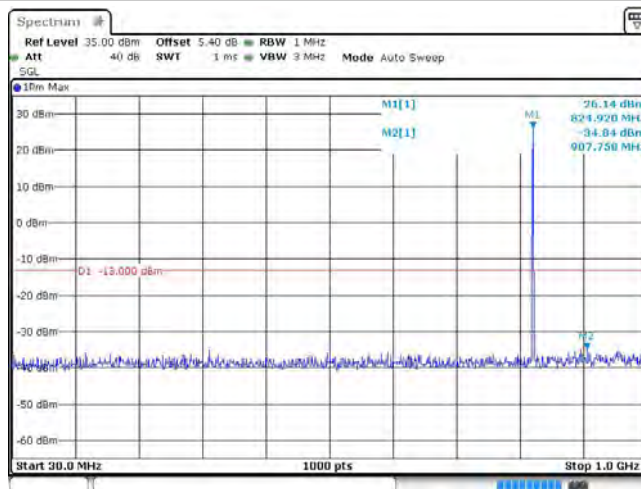


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

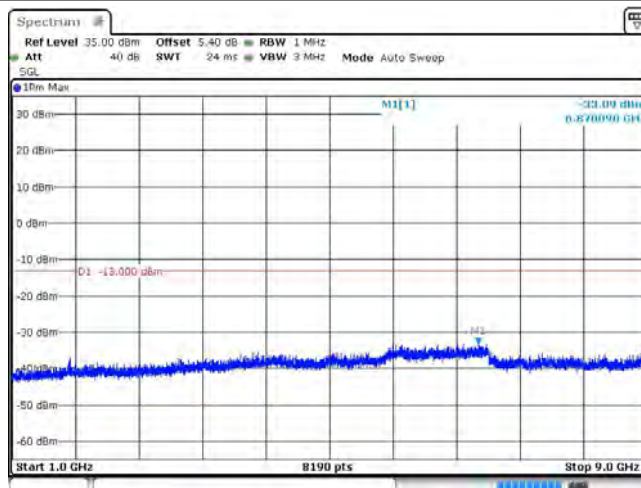


EGPRS850_128



Date: 6 JUL 2020 03:21:31

EGPRS850_128



Date: 6 JUL 2020 03:21:44



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.

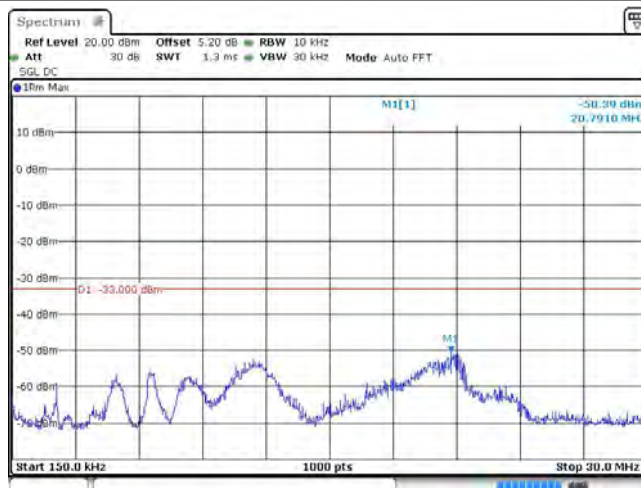
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

EGPRS850_190



Date: 6 JUL 2020 03:22:15

EGPRS850_190



Date: 6 JUL 2020 03:22:27

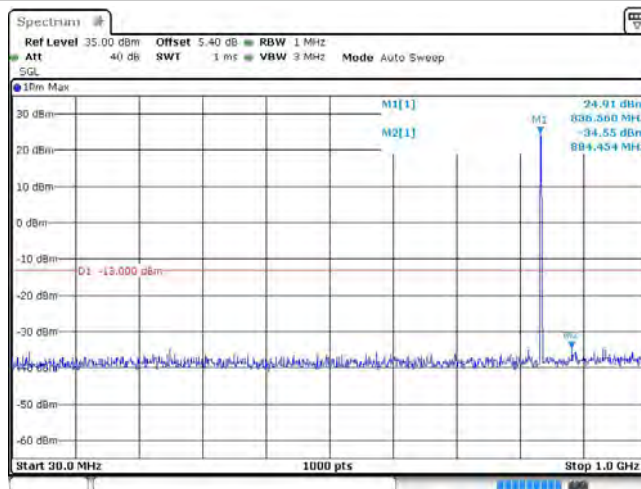


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

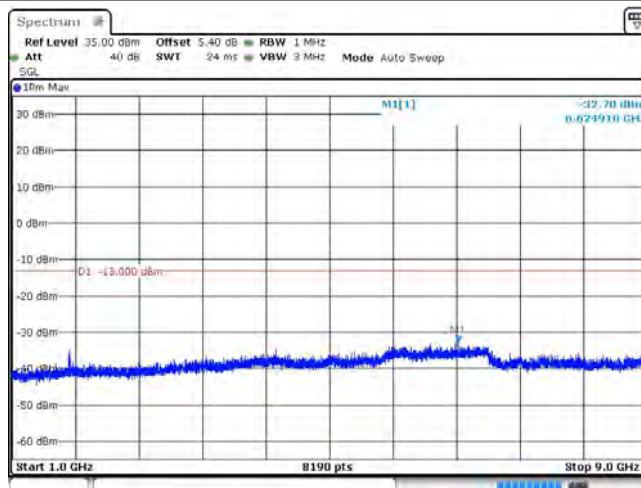


EGPRS850_190



Date: 6 JUL 2020 03:22:40

EGPRS850_190



Date: 6 JUL 2020 03:22:52

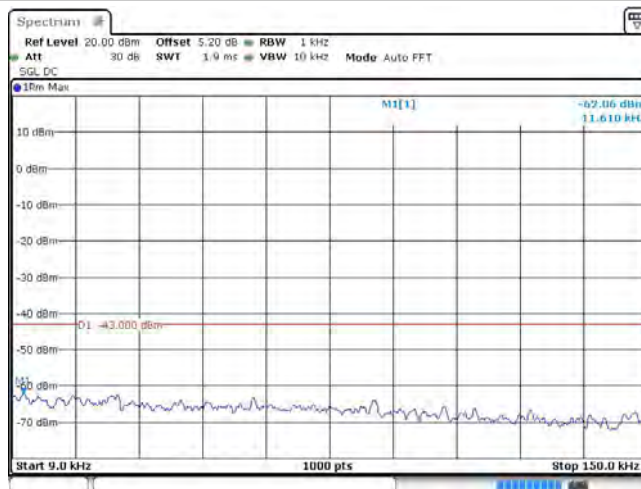


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

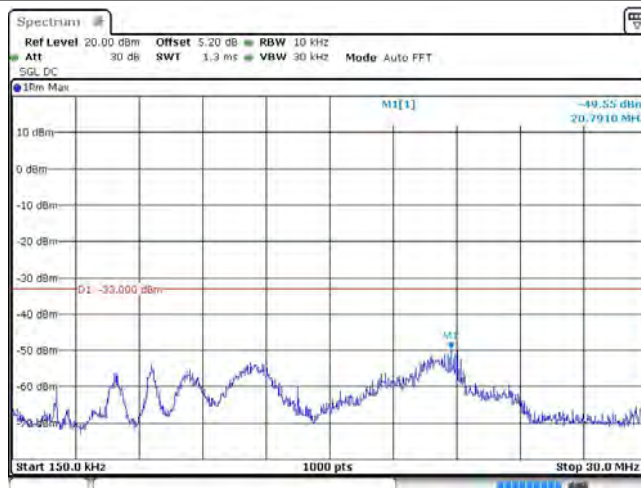


EGPRS850_251



Date: 6 JUL 2020 03:23:10

EGPRS850_251

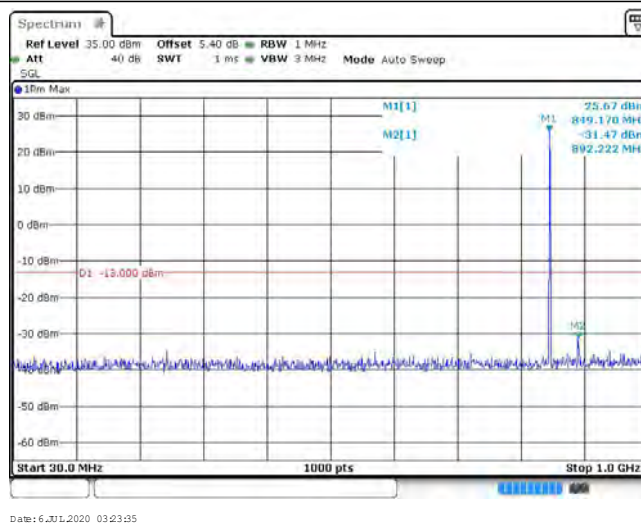


Date: 6 JUL 2020 03:23:22



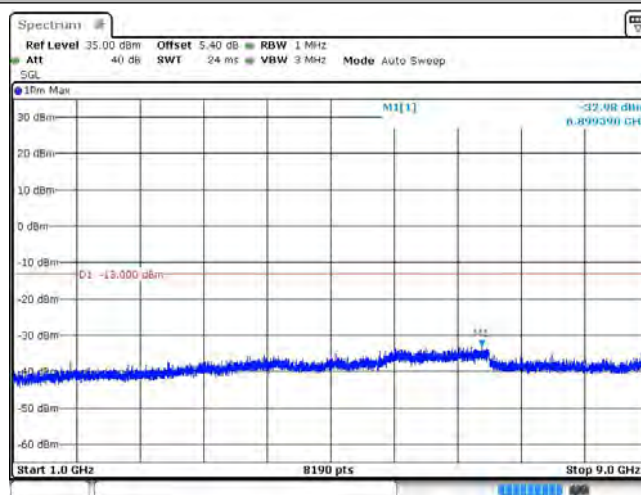


EGPRS850_251



Date: 6 JUL 2020 03:23:05

EGPRS850_251

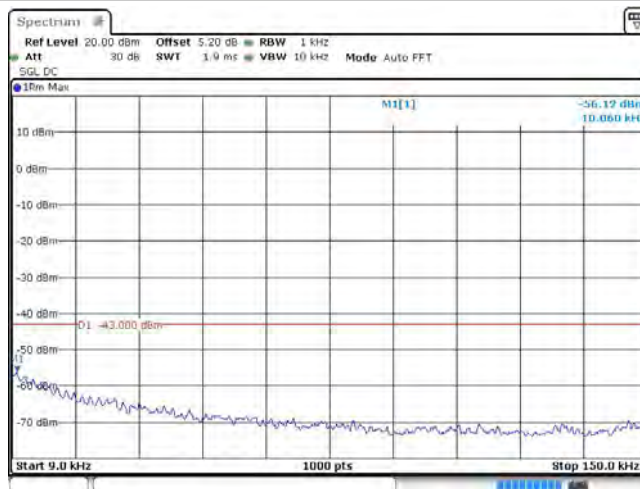


Date: 6 JUL 2020 03:23:47





GSM1900_512



Date: 6 JUL 2020 03:40:47

GSM1900_512



Date: 6 JUL 2020 03:41:00



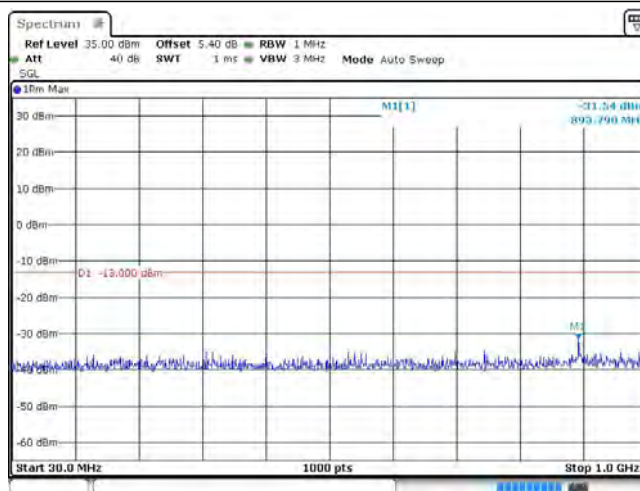
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Testing Laboratory

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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

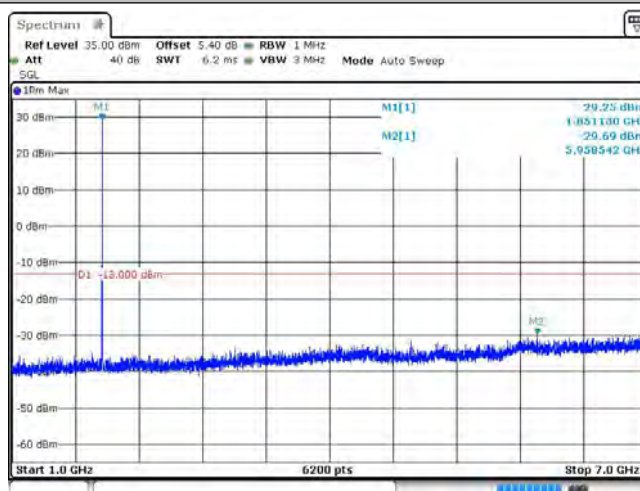


GSM1900_512



Date: 6 JUL 2020 03:41:12

GSM1900_512



Date: 6 JUL 2020 03:41:26

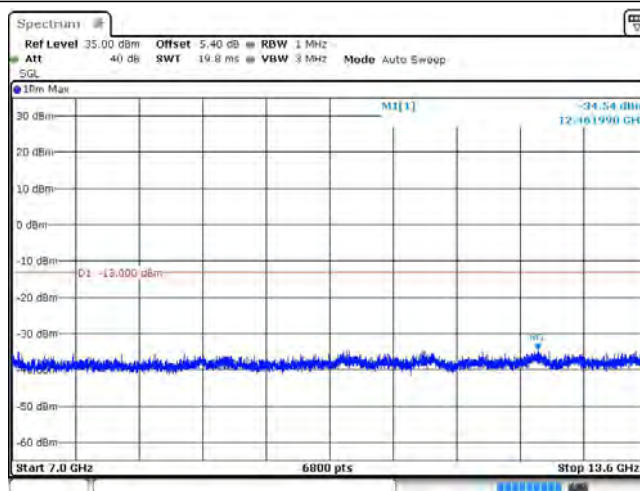


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

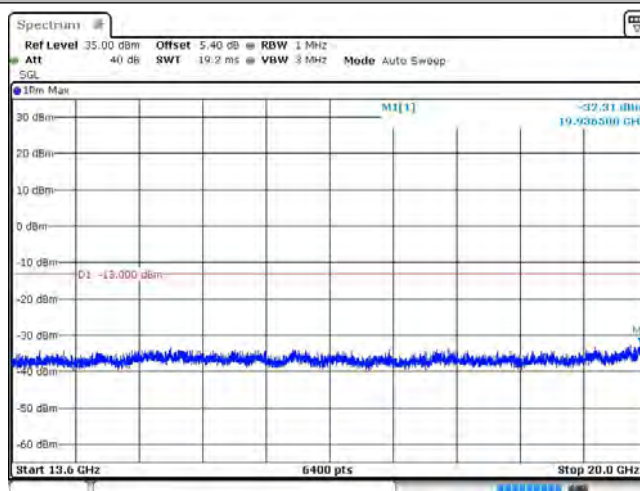


GSM1900_512



Date: 6 JUL 2020 03:41:39

GSM1900_512



Date: 6 JUL 2020 03:41:51



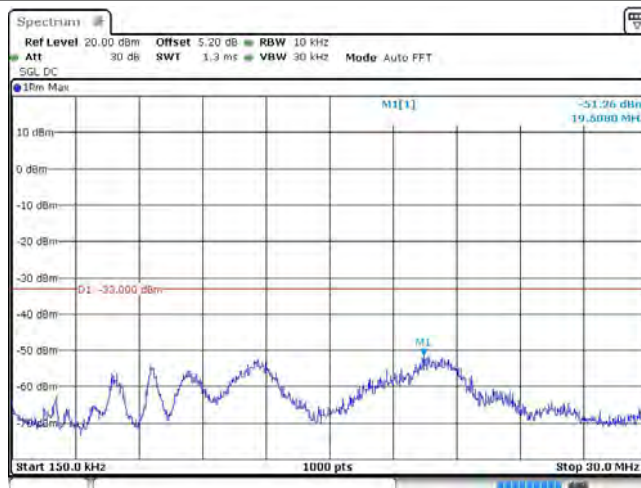


GSM1900_661



Date: 6 JUL 2020 03:42:11

GSM1900_661

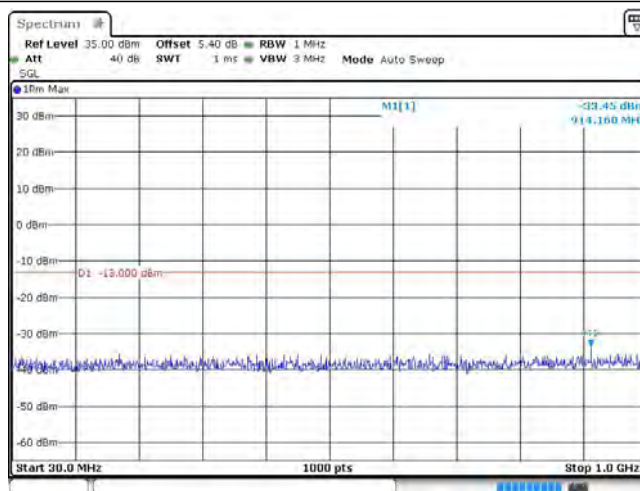


Date: 6 JUL 2020 03:42:23



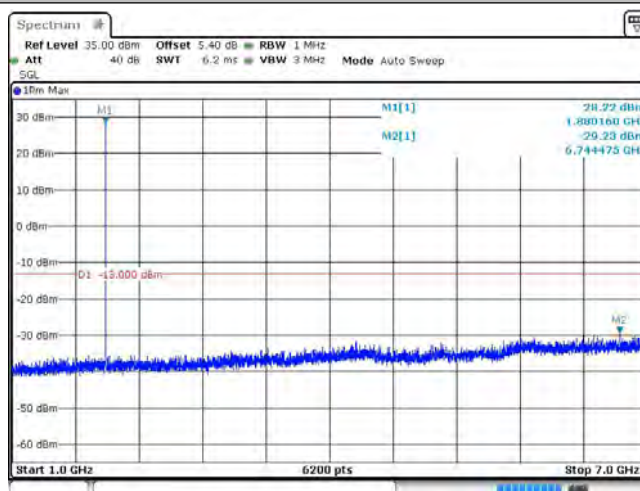


GSM1900_661



Date: 6 JUL 2020 03:42:36

GSM1900_661

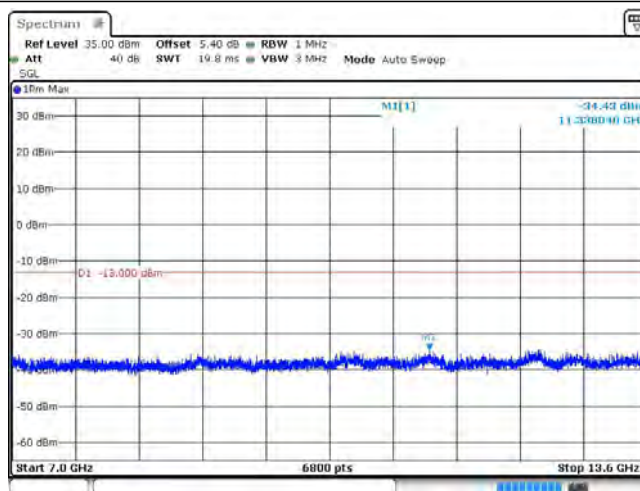


Date: 6 JUL 2020 03:42:49



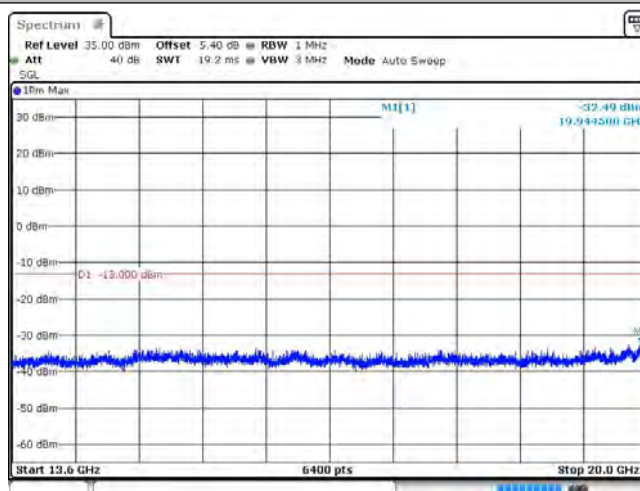


GSM1900_661



Date: 6 JUL 2020 03:43:02

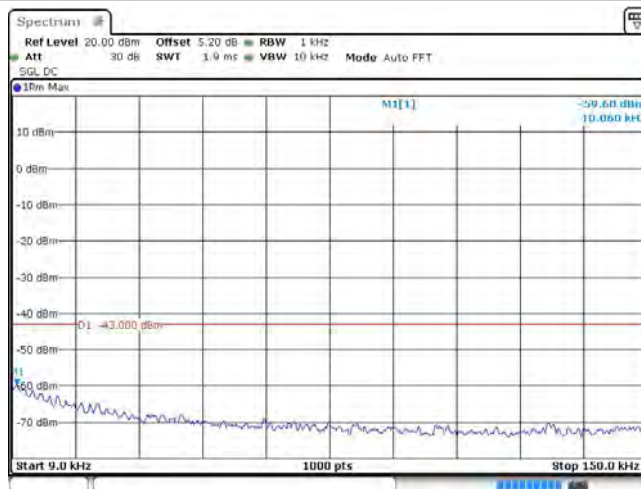
GSM1900_661



Date: 6 JUL 2020 03:43:15

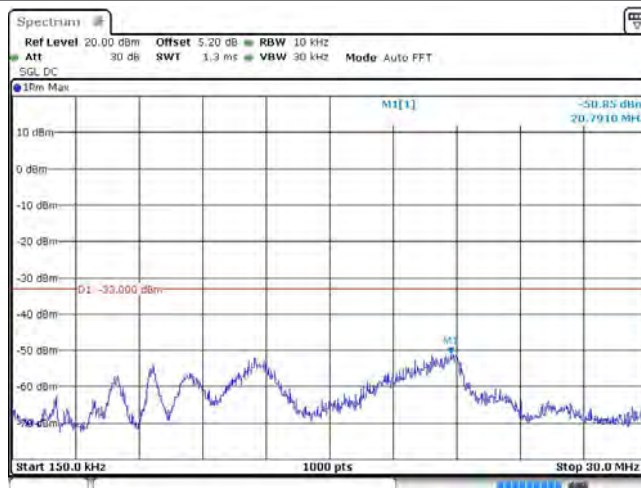


GSM1900_810



Date: 6 JUL 2020 03:43:04

GSM1900_810



Date: 6 JUL 2020 03:43:47

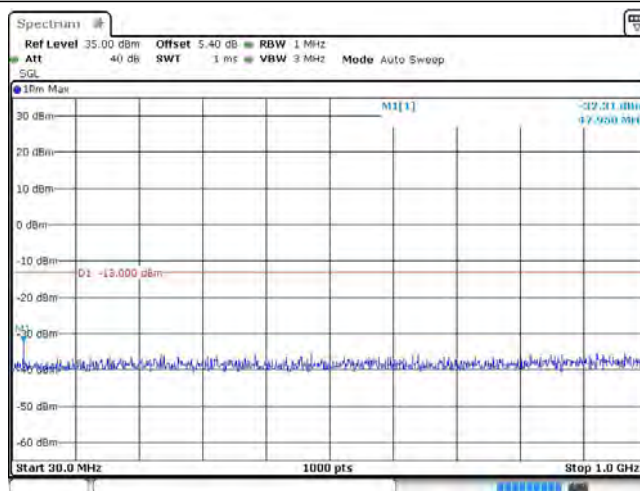


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

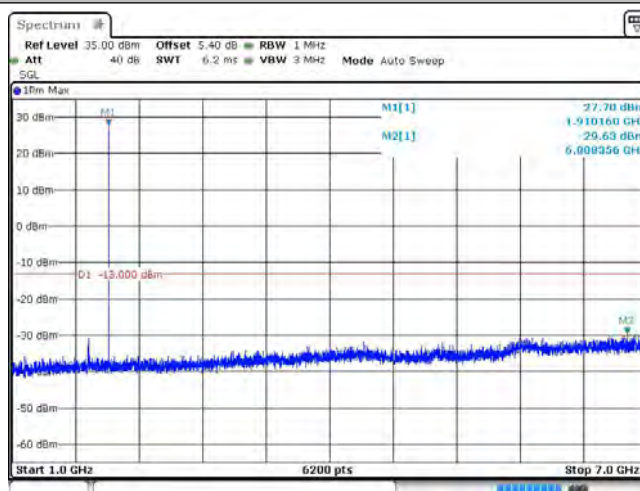


GSM1900_810



Date: 6 JUL 2020 03:43:59

GSM1900_810



Date: 6 JUL 2020 03:44:13



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

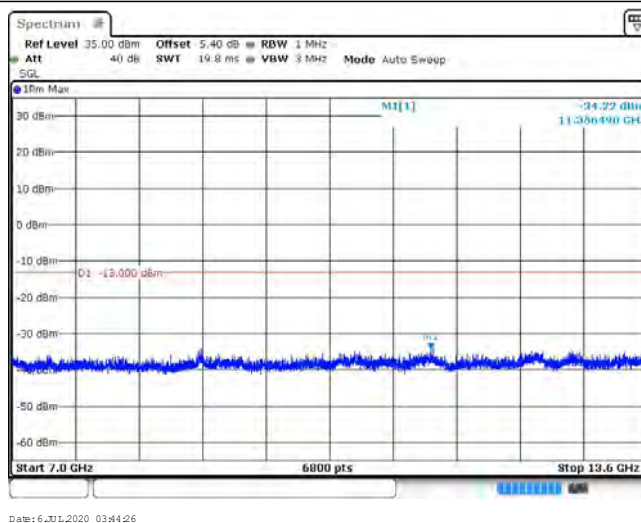
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

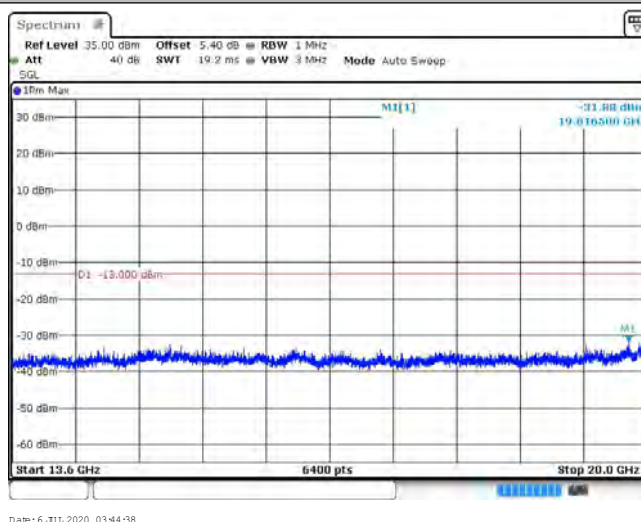


GSM1900_810



Date: 6 JUL 2020 03:44:26

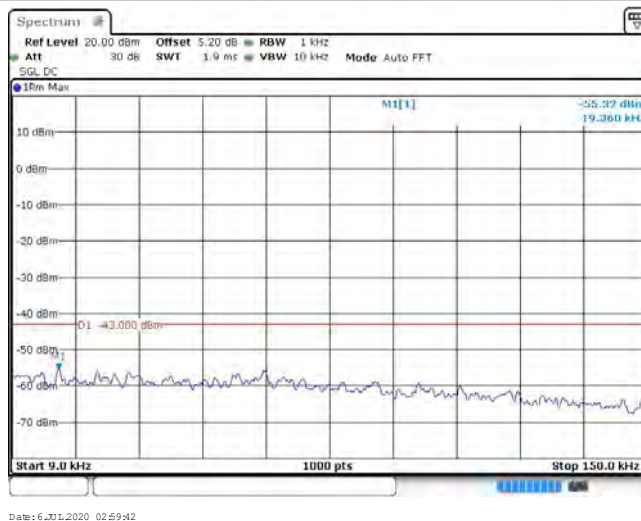
GSM1900_810



Date: 6 JUL 2020 03:44:38



EGPRS1900 512



EGPRS1900 512

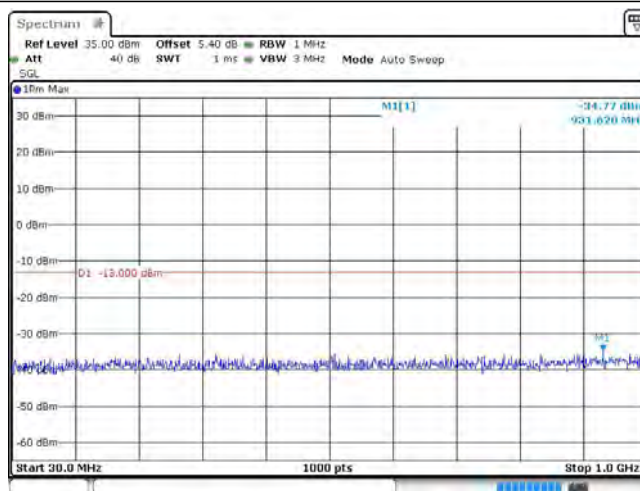


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 deemed to have accepted the contractual conditions and the terms and conditions of the document and to have agreed to follow the 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 signature, is strictly prohibited. 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.

Results shown in this test report are only for 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.
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

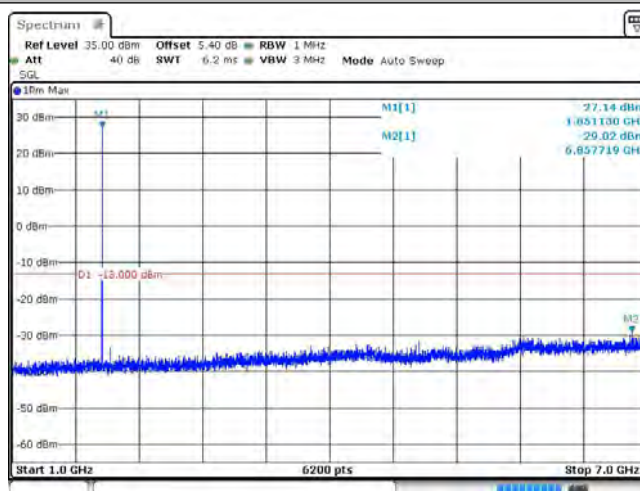


EGPRS1900_512



Date: 6 JUL 2020 03:00:06

EGPRS1900_512



Date: 6 JUL 2020 03:00:19

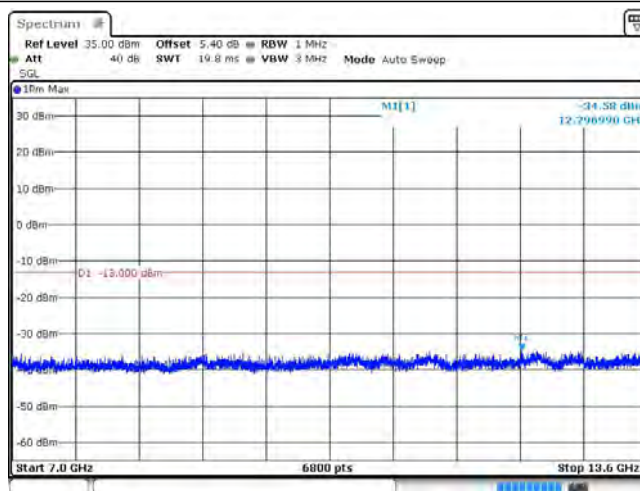


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

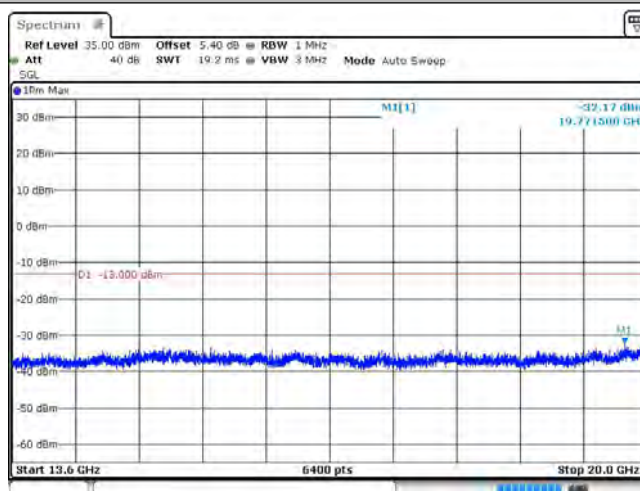


EGPRS1900_512



Date: 6 JUL 2020 03:00:31

EGPRS1900_512



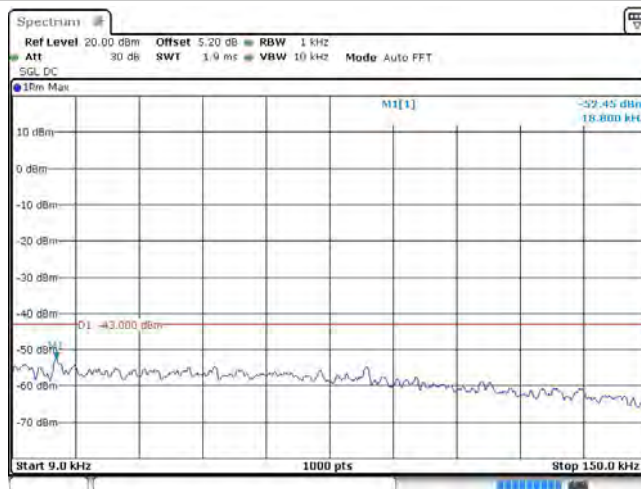
Date: 6 JUL 2020 03:00:50



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.

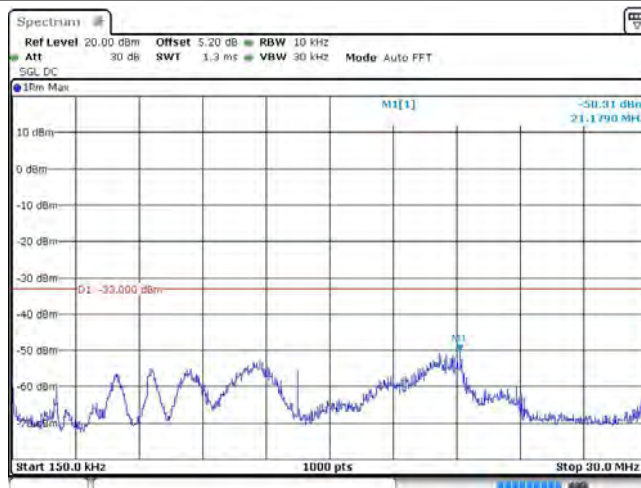
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

EGPRS1900_661



Date: 6 JUL 2020 03:01:08

EGPRS1900_661



Date: 6 JUL 2020 03:01:20



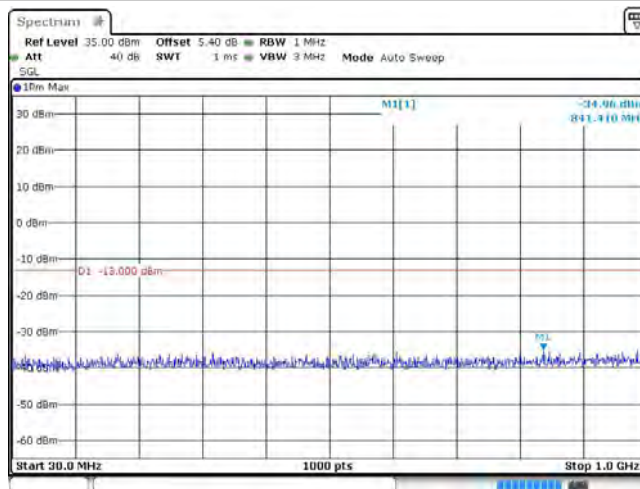
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

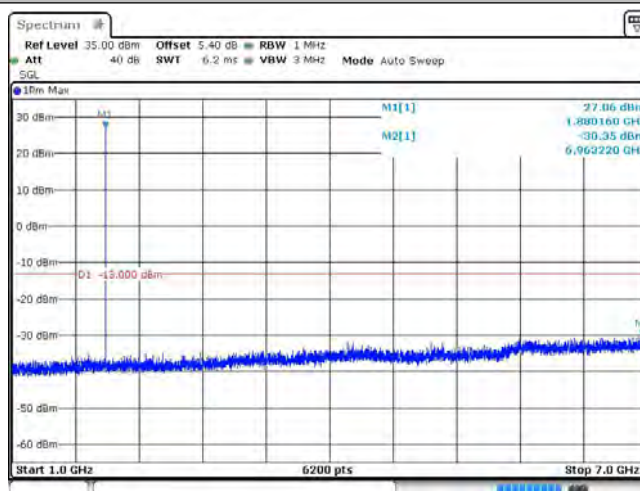


EGPRS1900_661



Date: 6 JUL 2020 03:01:32

EGPRS1900_661



Date: 6 JUL 2020 03:01:45

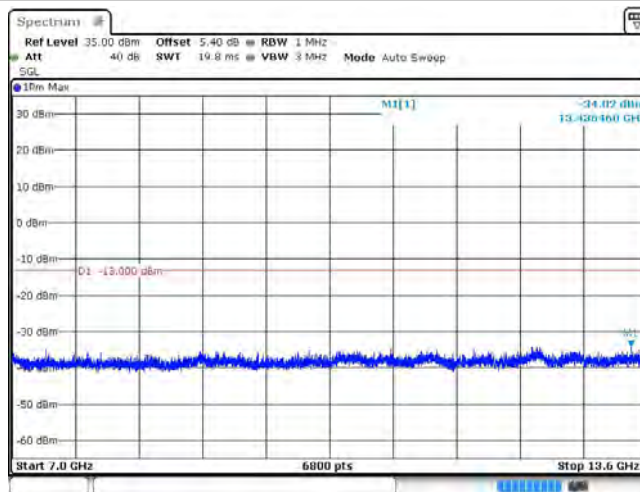


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

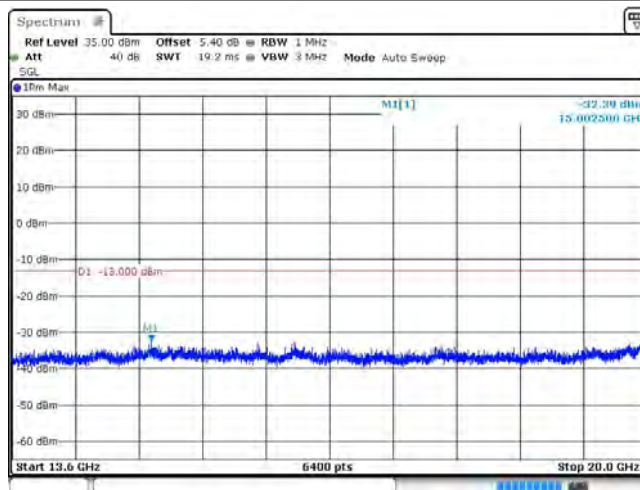


EGPRS1900_661



Date: 6 JUL 2020 03:01:57

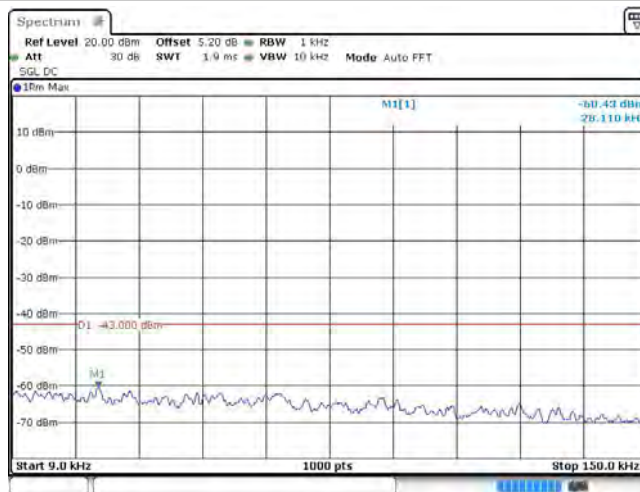
EGPRS1900_661



Date: 6 JUL 2020 03:02:09



EGPRS1900_810



Date: 6 JUL 2020 03:02:28

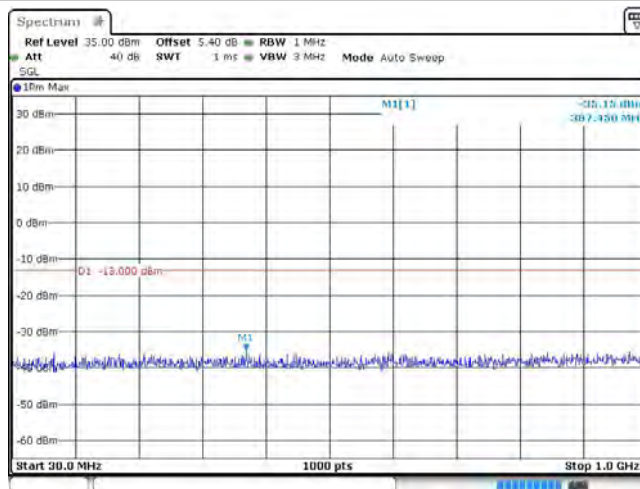
EGPRS1900_810



Date: 6 JUL 2020 03:02:39

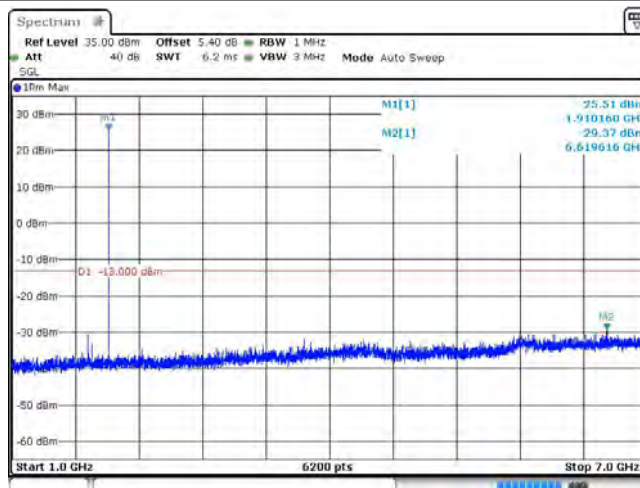


EGPRS1900_810



Date: 6 JUL 2020 03:02:51

EGPRS1900_810

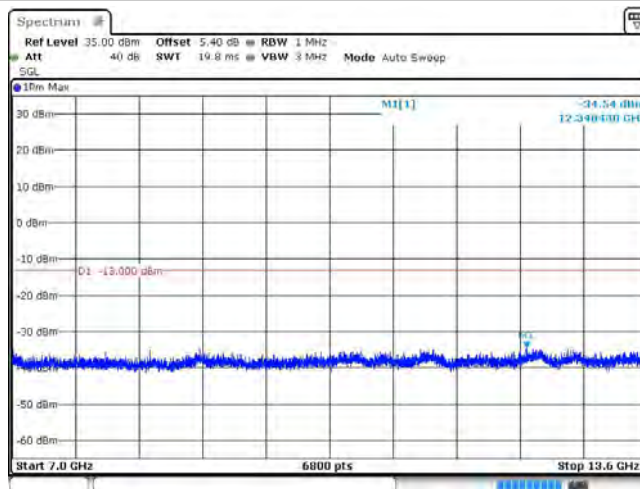


Date: 6 JUL 2020 03:03:05



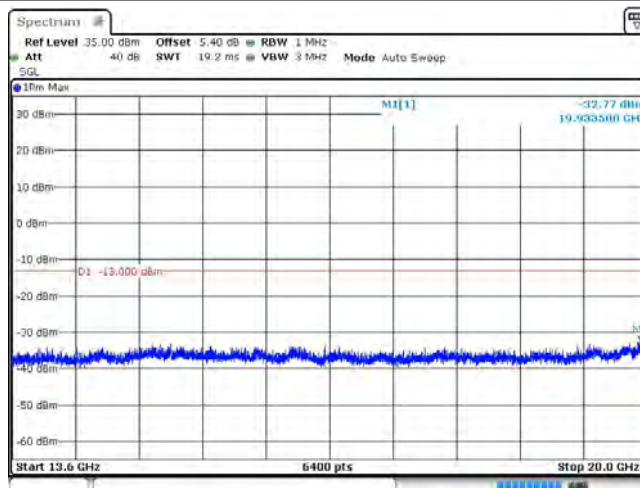


EGPRS1900_810



Date: 6 JUL 2020 03:03:17

EGPRS1900_810



Date: 6 JUL 2020 03:03:29





7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.2045	-64.99	-13.00	51.99	Vertical
2697.5395	-37.70	-13.00	24.70	Vertical
3700.5234	-52.38	-13.00	39.38	Vertical
5550.5850	-49.54	-13.00	36.54	Vertical
14476.3825	-47.31	-13.00	34.31	Vertical
17999.0000	-39.38	-13.00	26.38	Vertical
40.5250	-63.72	-13.00	50.72	Horizontal
2704.3409	-36.48	-13.00	23.48	Horizontal
3700.5234	-38.85	-13.00	25.85	Horizontal
5550.0850	-37.83	-13.00	24.83	Horizontal
16388.4463	-43.89	-13.00	30.89	Horizontal
17998.5000	-44.76	-13.00	31.76	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.8835	-64.90	-13.00	51.90	Vertical
2686.3373	-37.66	-13.00	24.66	Vertical
3760.0253	-49.07	-13.00	36.07	Vertical
5640.0880	-47.46	-13.00	34.46	Vertical
14447.3816	-48.08	-13.00	35.08	Vertical
17996.4999	-40.01	-13.00	27.01	Vertical
41.3496	-64.79	-13.00	51.79	Horizontal
2701.9404	-36.43	-13.00	23.43	Horizontal
3760.0253	-44.87	-13.00	31.87	Horizontal
5640.0880	-46.58	-13.00	33.58	Horizontal
16394.9465	-43.80	-13.00	30.80	Horizontal
17977.9993	-44.84	-13.00	31.84	Horizontal



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
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
106.9733	-64.88	-13.00	51.88	Vertical
2700.7401	-37.47	-13.00	24.47	Vertical
3819.5273	-56.26	-13.00	43.26	Vertical
5729.5910	-44.43	-13.00	31.43	Vertical
14462.3821	-47.43	-13.00	34.43	Vertical
17995.9999	-39.99	-13.00	26.99	Vertical
40.7675	-64.32	-13.00	51.32	Horizontal
2699.5399	-36.37	-13.00	23.37	Horizontal
3819.5273	-56.25	-13.00	43.25	Horizontal
5729.0910	-44.89	-13.00	31.89	Horizontal
16396.9466	-43.58	-13.00	30.58	Horizontal
17997.9999	-44.27	-13.00	31.27	Horizontal

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
114.2972	-64.82	-13.00	51.82	Vertical
296.3753	-67.70	-13.00	54.70	Vertical
1648.5297	-47.35	-13.00	34.35	Vertical
2472.6945	-51.04	-13.00	38.04	Vertical
7362.6454	-55.77	-13.00	42.77	Vertical
17991.4997	-40.20	-13.00	27.20	Vertical
-64.88	-63.33	-13.00	50.33	Horizontal
-37.47	-66.13	-13.00	53.13	Horizontal
-56.26	-42.07	-13.00	29.07	Horizontal
-44.43	-33.22	-13.00	20.22	Horizontal
-47.43	-45.47	-13.00	32.47	Horizontal
-39.99	-56.81	-13.00	43.81	Horizontal



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
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.7380	-64.56	-13.00	51.56	Vertical
377.1319	-67.55	-13.00	54.55	Vertical
1673.3347	-59.13	-13.00	46.13	Vertical
2509.9020	-51.72	-13.00	38.72	Vertical
3346.5116	-61.44	-13.00	48.44	Vertical
17999.0000	-40.37	-13.00	27.37	Vertical
41.1556	-63.84	-13.00	50.84	Horizontal
232.6916	-67.62	-13.00	54.62	Horizontal
1673.3347	-52.85	-13.00	39.85	Horizontal
2509.9020	-38.40	-13.00	25.40	Horizontal
3346.5116	-45.44	-13.00	32.44	Horizontal
17997.4999	-45.16	-13.00	32.16	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.0404	-64.42	-13.00	51.42	Vertical
1697.3395	-62.56	-13.00	49.56	Vertical
2546.3093	-51.93	-13.00	38.93	Vertical
9323.7108	-51.83	-13.00	38.83	Vertical
14500.3833	-47.88	-13.00	34.88	Vertical
17998.5000	-40.01	-13.00	27.01	Vertical
44.3082	-63.30	-13.00	50.30	Horizontal
238.1239	-67.38	-13.00	54.38	Horizontal
1697.3395	-58.01	-13.00	45.01	Horizontal
2546.7093	-45.61	-13.00	32.61	Horizontal
3395.0132	-48.48	-13.00	35.48	Horizontal
16389.9463	-44.00	-13.00	31.00	Horizontal

Remark:

- 1) According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.





8. Frequency Stability

8.1. Frequency Error Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	TN	12.40	0.015045	±2.5	PASS
GSM850	128	VN	TN	6.70	0.008125	±2.5	PASS
GSM850	128	VH	TN	9.36	0.011360	±2.5	PASS
GSM850	190	VL	TN	-5.85	-0.006994	±2.5	PASS
GSM850	190	VN	TN	-1.59	-0.001906	±2.5	PASS
GSM850	190	VH	TN	7.41	0.008863	±2.5	PASS
GSM850	251	VL	TN	0.47	0.000548	±2.5	PASS
GSM850	251	VN	TN	12.45	0.014669	±2.5	PASS
GSM850	251	VH	TN	-2.15	-0.002539	±2.5	PASS
EGPRS850	128	VL	TN	4.44	0.005386	±2.5	PASS
EGPRS850	128	VN	TN	-1.96	-0.002373	±2.5	PASS
EGPRS850	128	VH	TN	-0.45	-0.000552	±2.5	PASS
EGPRS850	190	VL	TN	-6.90	-0.008253	±2.5	PASS
EGPRS850	190	VN	TN	-2.29	-0.002732	±2.5	PASS
EGPRS850	190	VH	TN	11.04	0.013198	±2.5	PASS
EGPRS850	251	VL	TN	-12.11	-0.014269	±2.5	PASS
EGPRS850	251	VN	TN	-0.72	-0.000850	±2.5	PASS
EGPRS850	251	VH	TN	9.30	0.010956	±2.5	PASS
GSM1900	512	VL	TN	12.41	0.006709	±2.5	PASS
GSM1900	512	VN	TN	10.98	0.005933	±2.5	PASS
GSM1900	512	VH	TN	10.33	0.005584	±2.5	PASS
GSM1900	661	VL	TN	12.57	0.006688	±2.5	PASS
GSM1900	661	VN	TN	-12.93	-0.006876	±2.5	PASS
GSM1900	661	VH	TN	8.78	0.004672	±2.5	PASS
GSM1900	810	VL	TN	-14.63	-0.007660	±2.5	PASS
GSM1900	810	VN	TN	-5.94	-0.003111	±2.5	PASS
GSM1900	810	VH	TN	14.95	0.007826	±2.5	PASS
EGPRS1900	512	VL	TN	7.45	0.004028	±2.5	PASS
EGPRS1900	512	VN	TN	-11.09	-0.005995	±2.5	PASS
EGPRS1900	512	VH	TN	-8.19	-0.004427	±2.5	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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



EGPRS1900	661	VL	TN	-6.44	-0.003423	±2.5	PASS
EGPRS1900	661	VN	TN	11.42	0.006075	±2.5	PASS
EGPRS1900	661	VH	TN	-0.79	-0.000421	±2.5	PASS
EGPRS1900	810	VL	TN	-5.55	-0.002909	±2.5	PASS
EGPRS1900	810	VN	TN	-3.33	-0.001744	±2.5	PASS
EGPRS1900	810	VH	TN	-9.83	-0.005149	±2.5	PASS

8.2. Frequency Error Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	11.20	0.013589	±2.5	PASS
GSM850	128	VN	-20	3.34	0.004052	±2.5	PASS
GSM850	128	VN	-10	-9.56	-0.011598	±2.5	PASS
GSM850	128	VN	0	-7.08	-0.008589	±2.5	PASS
GSM850	128	VN	10	-0.48	-0.000581	±2.5	PASS
GSM850	128	VN	20	-11.79	-0.014308	±2.5	PASS
GSM850	128	VN	30	5.32	0.006461	±2.5	PASS
GSM850	128	VN	40	7.15	0.008671	±2.5	PASS
GSM850	128	VN	50	-13.31	-0.016152	±2.5	PASS
GSM850	190	VN	-30	-9.74	-0.011643	±2.5	PASS
GSM850	190	VN	-20	-3.62	-0.004323	±2.5	PASS
GSM850	190	VN	-10	5.79	0.006916	±2.5	PASS
GSM850	190	VN	0	-13.92	-0.016641	±2.5	PASS
GSM850	190	VN	10	8.55	0.010221	±2.5	PASS
GSM850	190	VN	20	-4.28	-0.005115	±2.5	PASS
GSM850	190	VN	30	-13.97	-0.016695	±2.5	PASS
GSM850	190	VN	40	6.37	0.007609	±2.5	PASS
GSM850	190	VN	50	-7.95	-0.009503	±2.5	PASS
GSM850	251	VN	-30	6.24	0.007346	±2.5	PASS
GSM850	251	VN	-20	3.02	0.003552	±2.5	PASS
GSM850	251	VN	-10	14.98	0.017649	±2.5	PASS
GSM850	251	VN	0	13.68	0.016123	±2.5	PASS
GSM850	251	VN	10	6.65	0.007838	±2.5	PASS
GSM850	251	VN	20	14.49	0.017067	±2.5	PASS
GSM850	251	VN	30	8.98	0.010581	±2.5	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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



GSM850	251	VN	40	12.59	0.014837	±2.5	PASS
GSM850	251	VN	50	-0.62	-0.000732	±2.5	PASS
EGPRS850	128	VN	-30	-5.54	-0.006716	±2.5	PASS
EGPRS850	128	VN	-20	-13.50	-0.016377	±2.5	PASS
EGPRS850	128	VN	-10	1.18	0.001428	±2.5	PASS
EGPRS850	128	VN	0	5.78	0.007015	±2.5	PASS
EGPRS850	128	VN	10	10.22	0.012403	±2.5	PASS
EGPRS850	128	VN	20	6.30	0.007647	±2.5	PASS
EGPRS850	128	VN	30	-0.86	-0.001047	±2.5	PASS
EGPRS850	128	VN	40	6.80	0.008254	±2.5	PASS
EGPRS850	128	VN	50	1.77	0.002142	±2.5	PASS
EGPRS850	190	VN	-30	9.05	0.010814	±2.5	PASS
EGPRS850	190	VN	-20	-13.67	-0.016344	±2.5	PASS
EGPRS850	190	VN	-10	1.64	0.001960	±2.5	PASS
EGPRS850	190	VN	0	-3.37	-0.004027	±2.5	PASS
EGPRS850	190	VN	10	-12.27	-0.014665	±2.5	PASS
EGPRS850	190	VN	20	-8.12	-0.009710	±2.5	PASS
EGPRS850	190	VN	30	-5.24	-0.006262	±2.5	PASS
EGPRS850	190	VN	40	-13.52	-0.016155	±2.5	PASS
EGPRS850	190	VN	50	-13.06	-0.015608	±2.5	PASS
EGPRS850	251	VN	-30	6.62	0.007794	±2.5	PASS
EGPRS850	251	VN	-20	8.75	0.010314	±2.5	PASS
EGPRS850	251	VN	-10	7.19	0.008473	±2.5	PASS
EGPRS850	251	VN	0	0.13	0.000157	±2.5	PASS
EGPRS850	251	VN	10	-8.56	-0.010086	±2.5	PASS
EGPRS850	251	VN	20	-6.51	-0.007665	±2.5	PASS
EGPRS850	251	VN	30	7.37	0.008688	±2.5	PASS
EGPRS850	251	VN	40	-9.75	-0.011487	±2.5	PASS
EGPRS850	251	VN	50	-8.36	-0.009847	±2.5	PASS
GSM1900	512	VN	-30	-4.16	-0.002246	±2.5	PASS
GSM1900	512	VN	-20	9.26	0.005007	±2.5	PASS
GSM1900	512	VN	-10	-0.26	-0.000140	±2.5	PASS
GSM1900	512	VN	0	9.00	0.004865	±2.5	PASS
GSM1900	512	VN	10	6.52	0.003524	±2.5	PASS
GSM1900	512	VN	20	13.09	0.007078	±2.5	PASS
GSM1900	512	VN	30	-1.03	-0.000557	±2.5	PASS
GSM1900	512	VN	40	-8.64	-0.004671	±2.5	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-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 telephones: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



GSM1900	512	VN	50	4.62	0.002496	±2.5	PASS
GSM1900	661	VN	-30	4.46	0.002373	±2.5	PASS
GSM1900	661	VN	-20	-5.83	-0.003100	±2.5	PASS
GSM1900	661	VN	-10	13.92	0.007402	±2.5	PASS
GSM1900	661	VN	0	9.84	0.005233	±2.5	PASS
GSM1900	661	VN	10	-8.11	-0.004314	±2.5	PASS
GSM1900	661	VN	20	7.00	0.003725	±2.5	PASS
GSM1900	661	VN	30	12.79	0.006804	±2.5	PASS
GSM1900	661	VN	40	4.44	0.002364	±2.5	PASS
GSM1900	661	VN	50	13.06	0.006948	±2.5	PASS
GSM1900	810	VN	-30	-1.17	-0.000614	±2.5	PASS
GSM1900	810	VN	-20	2.14	0.001119	±2.5	PASS
GSM1900	810	VN	-10	12.11	0.006343	±2.5	PASS
GSM1900	810	VN	0	8.62	0.004515	±2.5	PASS
GSM1900	810	VN	10	-14.75	-0.007725	±2.5	PASS
GSM1900	810	VN	20	-9.26	-0.004848	±2.5	PASS
GSM1900	810	VN	30	-3.65	-0.001911	±2.5	PASS
GSM1900	810	VN	40	2.33	0.001222	±2.5	PASS
GSM1900	810	VN	50	-10.65	-0.005579	±2.5	PASS
EGPRS1900	512	VN	-30	-8.27	-0.004472	±2.5	PASS
EGPRS1900	512	VN	-20	-6.20	-0.003351	±2.5	PASS
EGPRS1900	512	VN	-10	-9.51	-0.005142	±2.5	PASS
EGPRS1900	512	VN	0	-4.59	-0.002478	±2.5	PASS
EGPRS1900	512	VN	10	-9.35	-0.005052	±2.5	PASS
EGPRS1900	512	VN	20	-5.92	-0.003198	±2.5	PASS
EGPRS1900	512	VN	30	-14.85	-0.008026	±2.5	PASS
EGPRS1900	512	VN	40	-11.78	-0.006365	±2.5	PASS
EGPRS1900	512	VN	50	-1.37	-0.000740	±2.5	PASS
EGPRS1900	661	VN	-30	-11.42	-0.006076	±2.5	PASS
EGPRS1900	661	VN	-20	-7.53	-0.004007	±2.5	PASS
EGPRS1900	661	VN	-10	10.19	0.005422	±2.5	PASS
EGPRS1900	661	VN	0	-1.13	-0.000603	±2.5	PASS
EGPRS1900	661	VN	10	4.80	0.002551	±2.5	PASS
EGPRS1900	661	VN	20	13.66	0.007264	±2.5	PASS
EGPRS1900	661	VN	30	-13.87	-0.007380	±2.5	PASS
EGPRS1900	661	VN	40	4.06	0.002158	±2.5	PASS
EGPRS1900	661	VN	50	11.83	0.006292	±2.5	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 telephones: (86-755) 83071443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



EGPRS1900	810	VN	-30	1.60	0.000840	±2.5	PASS
EGPRS1900	810	VN	-20	-2.68	-0.001401	±2.5	PASS
EGPRS1900	810	VN	-10	13.51	0.007072	±2.5	PASS
EGPRS1900	810	VN	0	5.03	0.002636	±2.5	PASS
EGPRS1900	810	VN	10	-0.46	-0.000239	±2.5	PASS
EGPRS1900	810	VN	20	5.83	0.003052	±2.5	PASS
EGPRS1900	810	VN	30	4.58	0.002399	±2.5	PASS
EGPRS1900	810	VN	40	14.21	0.007442	±2.5	PASS
EGPRS1900	810	VN	50	5.89	0.003083	±2.5	PASS

The End



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMAA) Testing Laboratory

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com