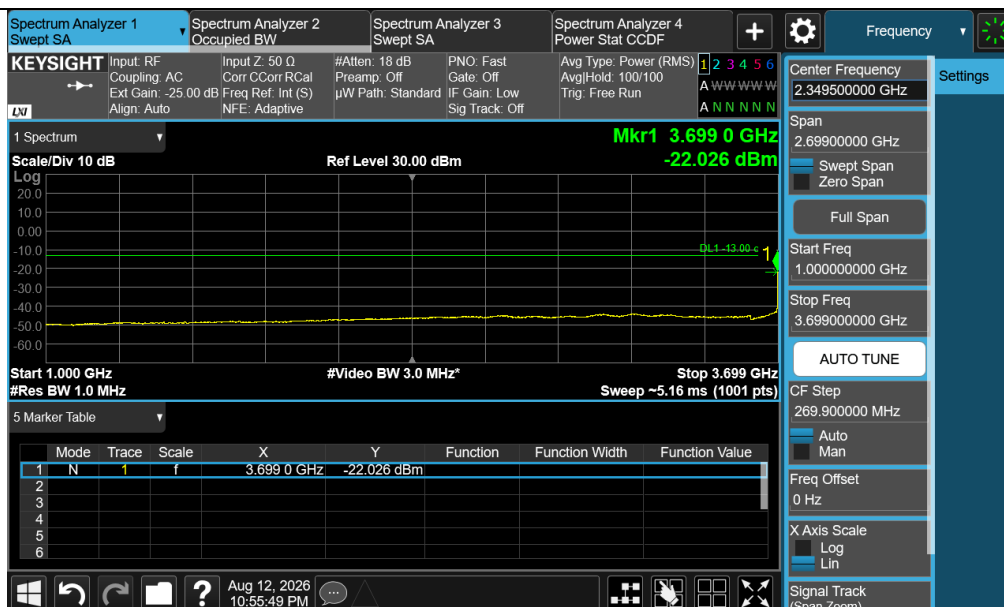
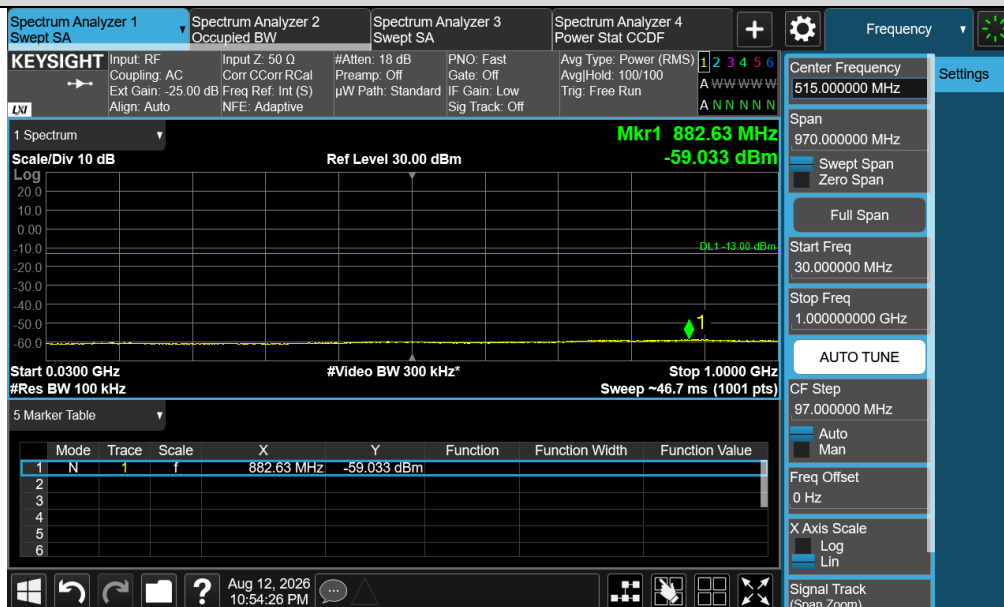


Conducted spurious emissions

UL_4.1MHz AWGN_LCH_Pre-AGC



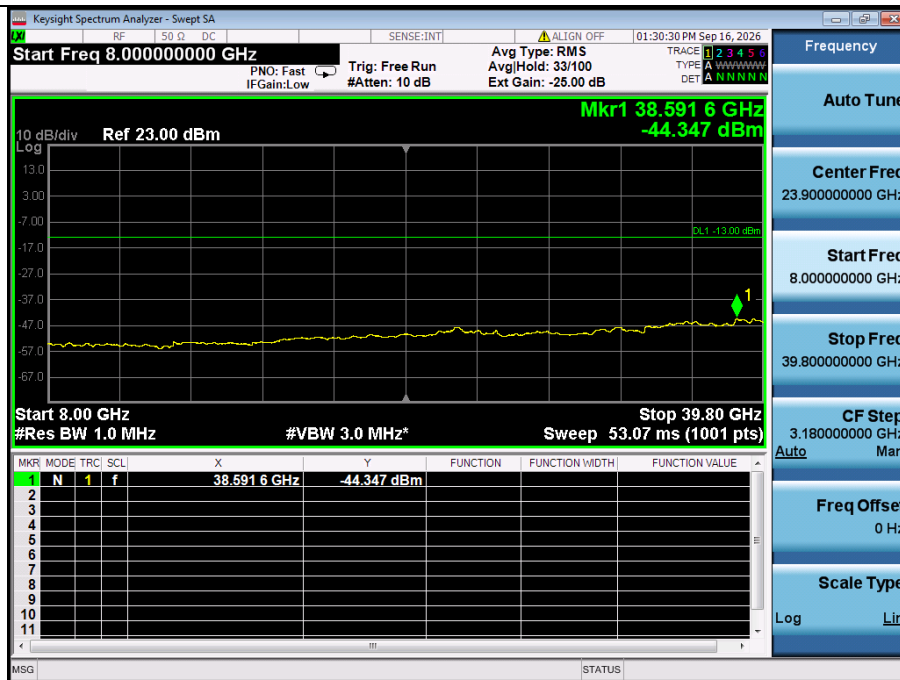
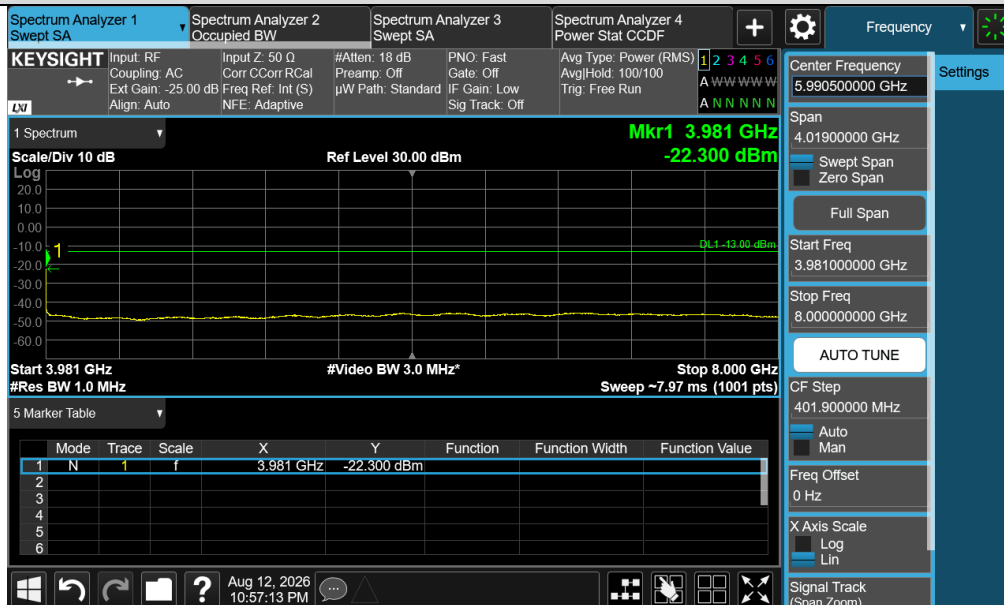
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

Conducted spurious emissions

UL_4.1MHz AWGN_HCH_Pre-AGC



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

Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

6 Frequency Stability

Frequency stability vs voltage							
Test path	Test Channel	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	TN	VL	1.7	0.00044	PASS
			TN	VH	1.7	0.00044	PASS
		100MHz AWGN	TN	VL	2.1	0.00055	PASS
			TN	VH	2.1	0.00055	PASS
		GSM	TN	VL	1.4	0.00036	PASS
			TN	VH	1.4	0.00036	PASS
UL	MCH	4.1MHz AWGN	TN	VL	1.9	0.00049	PASS
			TN	VH	1.9	0.00049	PASS
		100MHz AWGN	TN	VL	2.2	0.00057	PASS
			TN	VH	2.2	0.00057	PASS
		GSM	TN	VL	1.2	0.00031	PASS
			TN	VH	1.2	0.00031	PASS



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

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038503

Page: 90 of 95

Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	VN	+50	1.5	0.00039	PASS
			VN	+40	1.2	0.00031	PASS
			VN	+30	1.7	0.00044	PASS
			VN	+20	2.0	0.00052	PASS
			VN	+10	1.6	0.00042	PASS
			VN	0	2.0	0.00052	PASS
			VN	-10	1.8	0.00047	PASS
			VN	-20	1.6	0.00042	PASS
			VN	-30	1.2	0.00031	PASS
	MCH	100MHz AWGN	VN	+50	2.1	0.00055	PASS
			VN	+40	1.1	0.00029	PASS
			VN	+30	1.3	0.00034	PASS
			VN	+20	1.6	0.00042	PASS
			VN	+10	1.2	0.00031	PASS
			VN	0	2.1	0.00055	PASS
			VN	-10	2.1	0.00055	PASS
			VN	-20	1.3	0.00034	PASS
			VN	-30	1.8	0.00047	PASS
	MCH	GSM	VN	+50	1.5	0.00039	PASS
			VN	+40	1.2	0.00031	PASS
			VN	+30	1.7	0.00044	PASS
			VN	+20	2.0	0.00052	PASS
			VN	+10	1.6	0.00042	PASS
			VN	0	2.0	0.00052	PASS
			VN	-10	1.8	0.00047	PASS
			VN	-20	1.6	0.00042	PASS
			VN	-30	1.2	0.00031	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

Compliance Certification Services (Kunshan) Inc.
Shenzhen Branch

Fuyong Lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038503

Page: 91 of 95

Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	MCH	4.1MHz AWGN	VN	+50	1.9	0.00049	PASS
			VN	+40	1.6	0.00042	PASS
			VN	+30	1.2	0.00031	PASS
			VN	+20	1.8	0.00047	PASS
			VN	+10	1.8	0.00047	PASS
			VN	0	1.5	0.00039	PASS
			VN	-10	2.0	0.00052	PASS
			VN	-20	2.0	0.00052	PASS
			VN	-30	1.4	0.00036	PASS
	MCH	100MHz AWGN	VN	+50	1.3	0.00034	PASS
			VN	+40	2.0	0.00052	PASS
			VN	+30	1.5	0.00039	PASS
			VN	+20	1.7	0.00044	PASS
			VN	+10	2.0	0.00052	PASS
			VN	0	1.2	0.00031	PASS
			VN	-10	1.5	0.00039	PASS
			VN	-20	1.8	0.00047	PASS
			VN	-30	2.1	0.00055	PASS
	MCH	GSM	VN	+50	1.5	0.00039	PASS
			VN	+40	1.9	0.00049	PASS
			VN	+30	1.6	0.00042	PASS
			VN	+20	1.2	0.00031	PASS
			VN	+10	1.8	0.00047	PASS
			VN	0	1.8	0.00047	PASS
			VN	-10	1.5	0.00039	PASS
			VN	-20	2.0	0.00052	PASS
			VN	-30	2.0	0.00052	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.

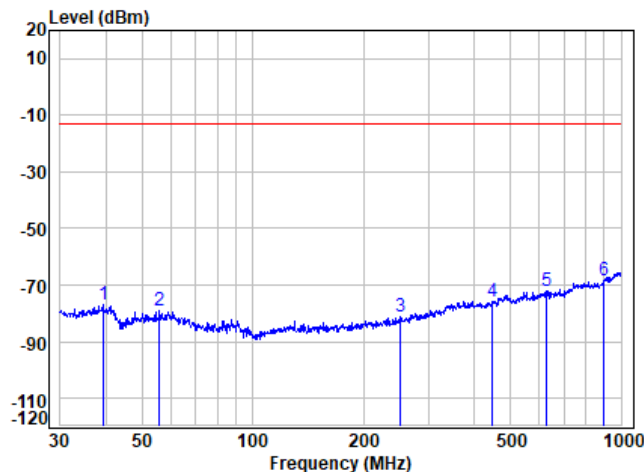
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

7 Radiated Spurious emissions (below 1GHz)

Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz



Condition: 3m HORIZONTAL

Job No :

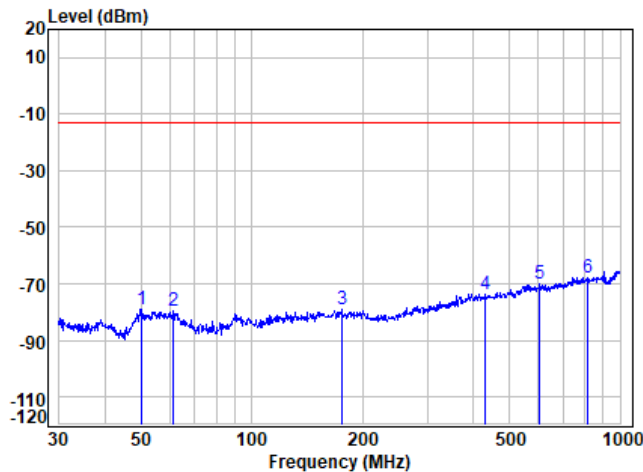
Mode :

	Freq	correction	Read	Limit	Over		Aux
	MHz	Factor	Level	Line	Limit	Remark	Factor
		dB	dBm	dBm	dBm	dB	
1	39.30	-0.33	-76.65	-76.98	-13.00	-63.98 peak	0.00
2	55.61	-2.97	-76.30	-79.27	-13.00	-66.27 peak	0.00
3	250.30	-5.36	-75.82	-81.18	-13.00	-68.18 peak	0.00
4	444.85	-0.30	-75.48	-75.78	-13.00	-62.78 peak	0.00
5	625.08	2.67	-74.84	-72.17	-13.00	-59.17 peak	0.00
6	900.15	7.94	-76.39	-68.45	-13.00	-55.45 peak	0.00



Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz



Condition:3m VERTICAL

Job No :

Mode :

	Freq	correction	Read	Limit	Over		Aux
	Factor	Level	Level	Line	Limit	Remark	Factor
	MHz	dB	dBm	dBm	dBm	dB	
1	50.06	-3.10	-75.74	-78.84	-13.00	-65.84 peak	0.00
2	61.13	-3.15	-76.53	-79.68	-13.00	-66.68 peak	0.00
3	175.04	-3.27	-75.54	-78.81	-13.00	-65.81 peak	0.00
4	429.52	1.62	-75.15	-73.53	-13.00	-60.53 peak	0.00
5	605.66	4.44	-74.61	-70.17	-13.00	-57.17 peak	0.00
6	813.11	7.91	-75.67	-67.76	-13.00	-54.76 peak	0.00

Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals), the test result always keeps more than 20dB margin, the spurious emissions 9kHz to 30MHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.

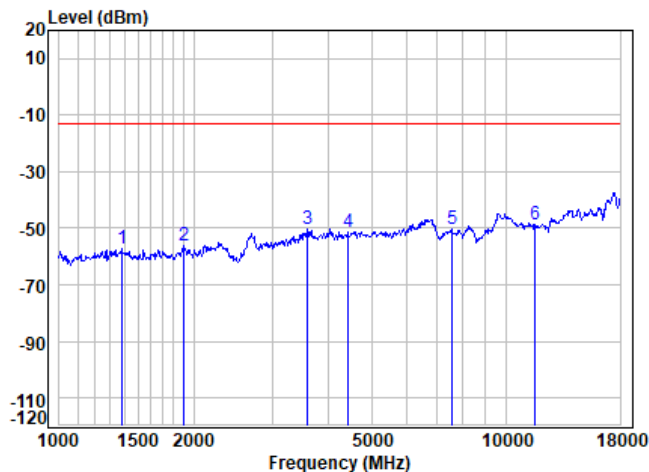


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

8 Radiated Spurious emissions (above 1GHz)

Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



Condition:3m HORIZONTAL

Job No :

Mode :

	Freq	correction	Read	Limit	Over		Aux
	MHz	Factor	Level	Line	Limit	Remark	Factor
		dB	dBm	dBm	dB		
1	1382.26	2.99	-60.20	-57.21	-13.00	-44.21 peak	0.00
2	1899.64	4.72	-60.96	-56.24	-13.00	-43.24 peak	0.00
3	3598.20	12.02	-62.42	-50.40	-13.00	-37.40 peak	0.00
4	4430.63	11.21	-62.32	-51.11	-13.00	-38.11 peak	0.00
5	7541.11	12.33	-62.52	-50.19	-13.00	-37.19 peak	0.00
6	11600.35	15.48	-64.29	-48.81	-13.00	-35.81 peak	0.00

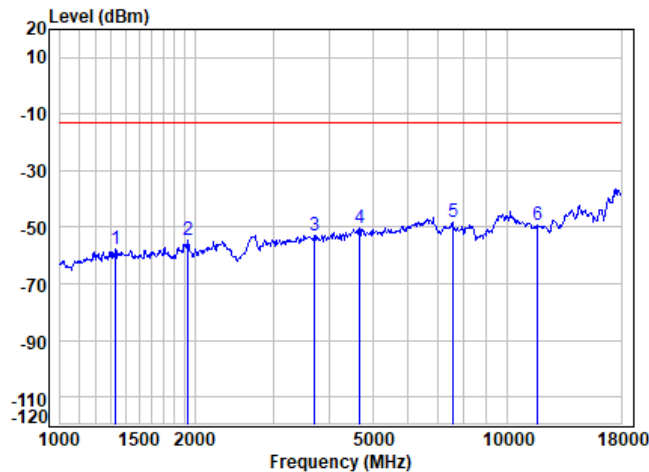


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	correction	Read	Limit	Over		Aux
	MHz	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dBm	dBm	dBm	dB	
1	1327.45	1.80	-59.50	-57.70	-13.00	-44.70 peak	0.00
2	1927.29	4.51	-58.83	-54.32	-13.00	-41.32 peak	0.00
3	3703.72	9.52	-62.22	-52.70	-13.00	-39.70 peak	0.00
4	4667.24	11.65	-62.12	-50.47	-13.00	-37.47 peak	0.00
5	7541.11	13.55	-61.90	-48.35	-13.00	-35.35 peak	0.00
6	11735.25	14.29	-63.43	-49.14	-13.00	-36.14 peak	0.00

Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals), the test result always keeps more than 20dB margin, the spurious emissions above 18GHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.

- End of the Report -



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

Compliance Certification Services (Kunshan) Inc.
Shenzhen Branch

Fuyong Lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com