

TEST REPORT

Application No.: SZEM2004002578CR
Applicant: Samsung Electronics. Co., Ltd
Address of Applicant: 19 Chapin Rd., Building D Pine Brook, NJ 07058
Manufacturer: Samsung Electronics. Co., Ltd
Address of Manufacturer: 19 Chapin Rd., Building D Pine Brook, NJ 07058
Equipment Under Test (EUT):
EUT Name: Mobile phone
Model No.: SM-M115FDS, SM-M115F ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: SAMSUNG
FCC ID: ZCASMM115F
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020-04-14
Date of Test: 2020-04-17 to 2020-04-20
Date of Issue: 2020-04-23

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.





Keny Xu
 EMC Laboratory Manager



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

<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2020-04-23		Original

Authorized for issue by:			
			
		<hr/> Damon Su /Project Engineer	
			
		<hr/> Eric Fu /Reviewer	



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 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

Remark:

Model No.: SM-M115FDS, SM-M115F

Only the model SM-M115F was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, only different on SIM model.



3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 DETAILS OF E.U.T.	5
4.2 DESCRIPTION OF SUPPORT UNITS	5
4.3 MEASUREMENT UNCERTAINTY	5
4.4 TEST LOCATION	6
4.5 TEST FACILITY	6
4.6 DEVIATION FROM STANDARDS	6
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	6
5 EQUIPMENT LIST	7
6 EMISSION TEST RESULTS	9
6.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ).....	9
6.1.1 <i>E.U.T. Operation</i>	9
6.1.2 <i>Test Setup Diagram</i>	10
6.1.3 <i>Measurement Data</i>	10
6.2 RADIATED EMISSIONS (30MHZ-1GHZ)	21
6.2.1 <i>E.U.T. Operation</i>	21
6.2.2 <i>Test Setup Diagram</i>	21
6.2.3 <i>Measurement Data</i>	22
6.3 RADIATED EMISSIONS (ABOVE 1GHZ).....	27
6.3.1 <i>E.U.T. Operation</i>	27
6.3.2 <i>Test Setup Diagram</i>	27
6.3.3 <i>Measurement Data</i>	28
7 PHOTOGRAPHS	35
7.1 EUT TEST SETUP	35
7.2 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	35



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

4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 3.8V from internal rechargeable battery or from AC/DC adapter Model No.: EP-TA200 AC Input: 100-240V 50/60Hz 0.5A DC Output: DC 5V 2A or 9V 1.67A
Cable:	USB cable: Type C 100cm shielded Earphone Cable: 120cm unshielded
Internal Source:	More than 108MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200
Laptop	Lenovo	L480	PF-1N6C3V

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.45dB (9kHz to 150kHz)
		± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 3.1dB (9kHz-30MHz)
		± 4.5dB (30MHz-1GHz)
		± 4.8dB (1GHz-6GHz)
3	Temperature test	± 1 °C
4	Humidity test	± 3%



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) 83071443, or email: CN.Doccheck@sgs.com

4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23



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

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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

6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case:

- f: Transfer data between the EUT1 and the PC+USB cable
- g: Transfer data between the EUT2 and the PC+USB cable
- h: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+earphone+EUT(worst)+adapter
- i: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+earphone+EUT(worst)+adapter
- j: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)+earphone+EUT(worst)+adapter

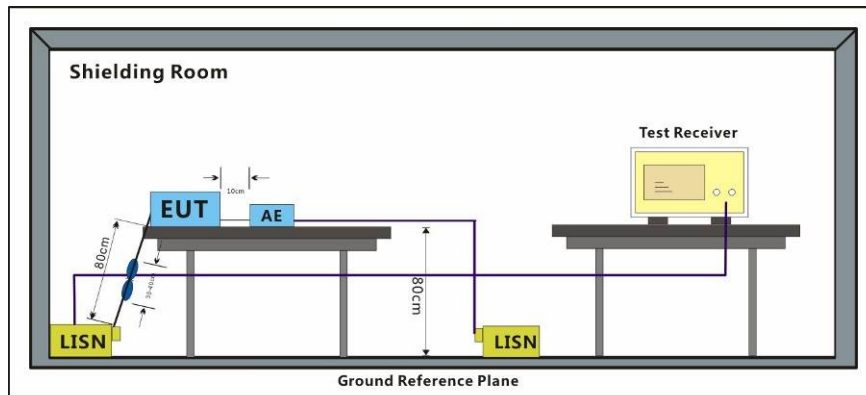
The worst case for final test:

- f: Transfer data between the EUT1 and the PC+USB cable
- g: Transfer data between the EUT2 and the PC+USB cable
- h: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+earphone+EUT1+adapter
- i: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+earphone+EUT1+adapter
- j: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)+earphone+EUT1+adapter



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

6.1.2 Test Setup Diagram

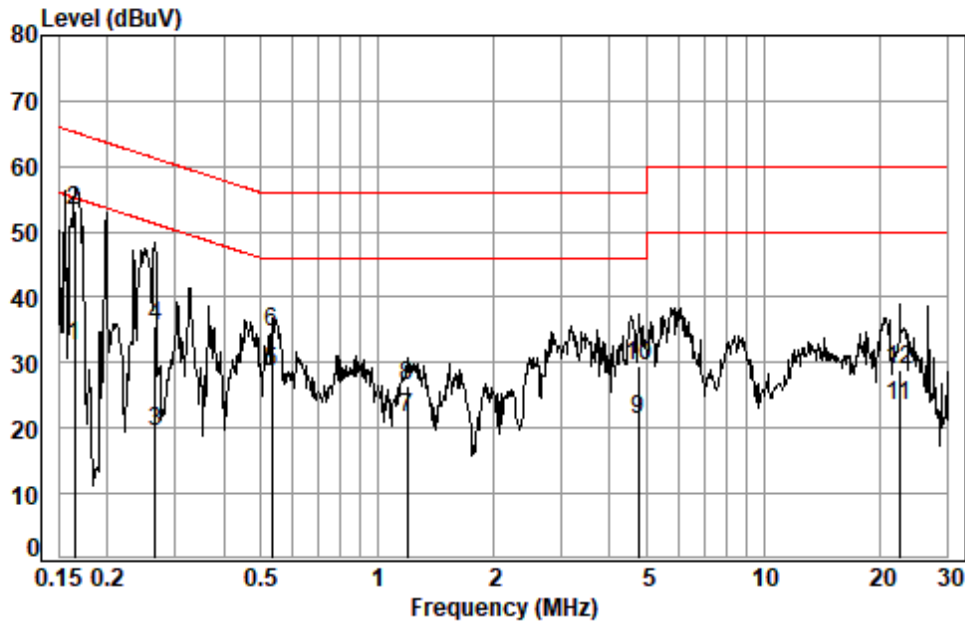


6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



Mode:f; Line:Live Line



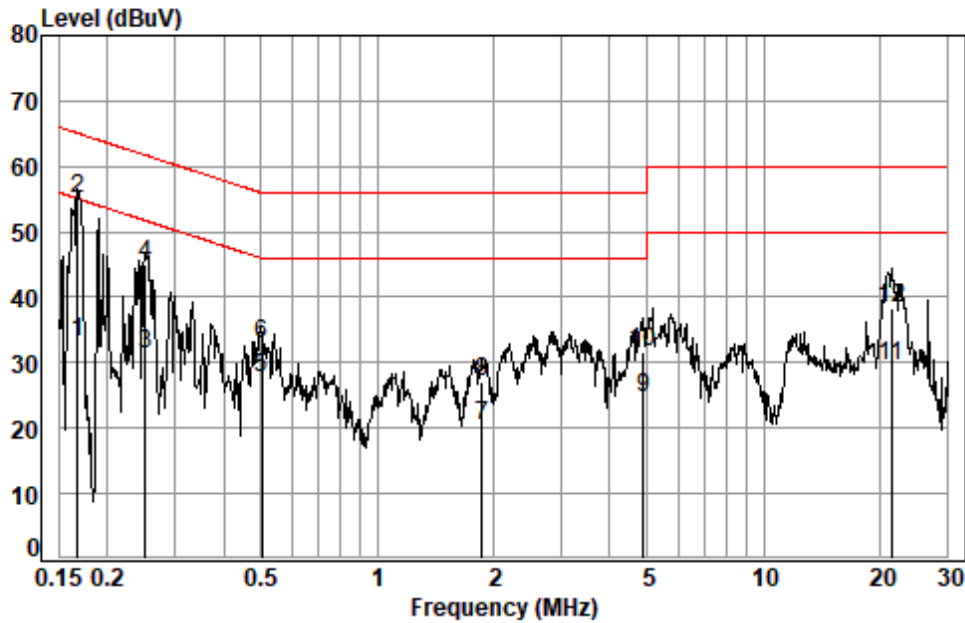
Site : Shielding Room
Condition: Line
Job No. : 02578CR
Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1650	0.01	9.59	22.90	55.21	-22.71	Average
2	0.1650	0.01	9.59	43.57	65.21	-12.04	QP
3	0.2658	0.03	9.59	9.89	51.25	-31.74	Average
4	0.2658	0.03	9.59	25.96	61.25	-25.67	QP
5	0.5350	0.06	9.59	18.89	46.00	-17.46	Average
6	0.5350	0.06	9.59	25.12	56.00	-21.23	QP
7	1.1970	0.11	9.60	11.98	46.00	-24.31	Average
8	1.1970	0.11	9.60	16.85	56.00	-29.44	QP
9	4.7464	0.17	9.67	11.53	46.00	-24.63	Average
10	4.7464	0.17	9.67	19.62	56.00	-26.54	QP
11	22.5354	0.25	10.56	12.63	50.00	-26.56	Average
12	22.5354	0.25	10.56	17.96	60.00	-31.23	QP



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

Mode:f; Line:Neutral Line



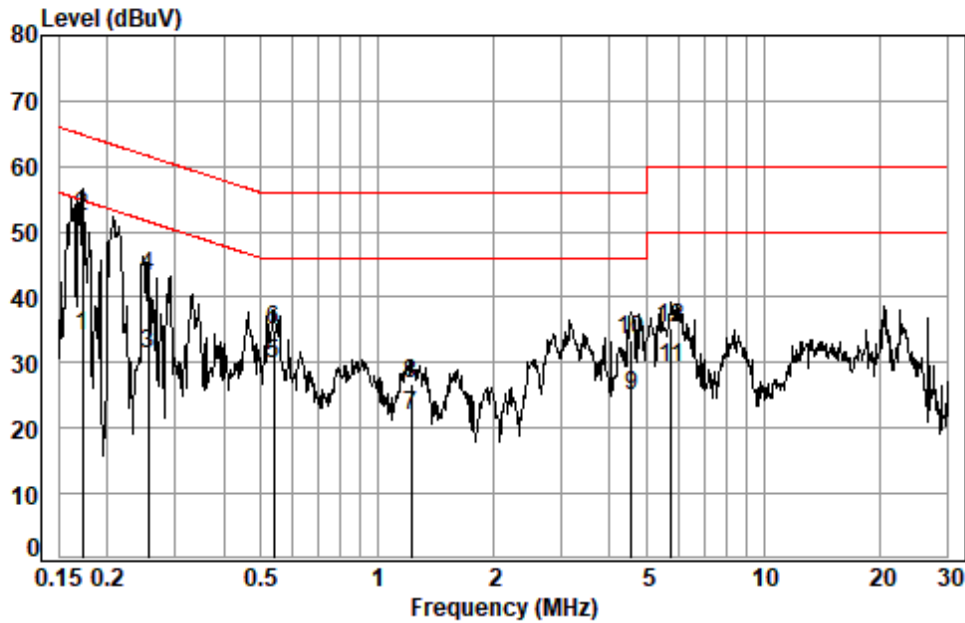
Site : Shielding Room
Condition: Neutral
Job No. : 02578CR
Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1677	0.01	9.55	23.48	55.08	-22.04	Average
2	0.1677	0.01	9.55	45.54	65.08	-9.98	QP
3	0.2508	0.03	9.54	21.89	51.73	-20.27	Average
4	0.2508	0.03	9.54	35.49	61.73	-16.67	QP
5	0.5020	0.06	9.54	18.11	46.00	-18.29	Average
6	0.5020	0.06	9.54	23.16	56.00	-23.24	QP
7	1.8680	0.15	9.56	10.73	46.00	-25.56	Average
8	1.8680	0.15	9.56	17.21	56.00	-29.08	QP
9	4.8738	0.17	9.63	14.75	46.00	-21.45	Average
10	4.8738	0.17	9.63	21.77	56.00	-24.43	QP
11	21.4860	0.25	10.62	18.73	50.00	-20.40	Average
12	21.4860	0.25	10.62	27.45	60.00	-21.68	QP



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

Mode:g; Line:Live Line



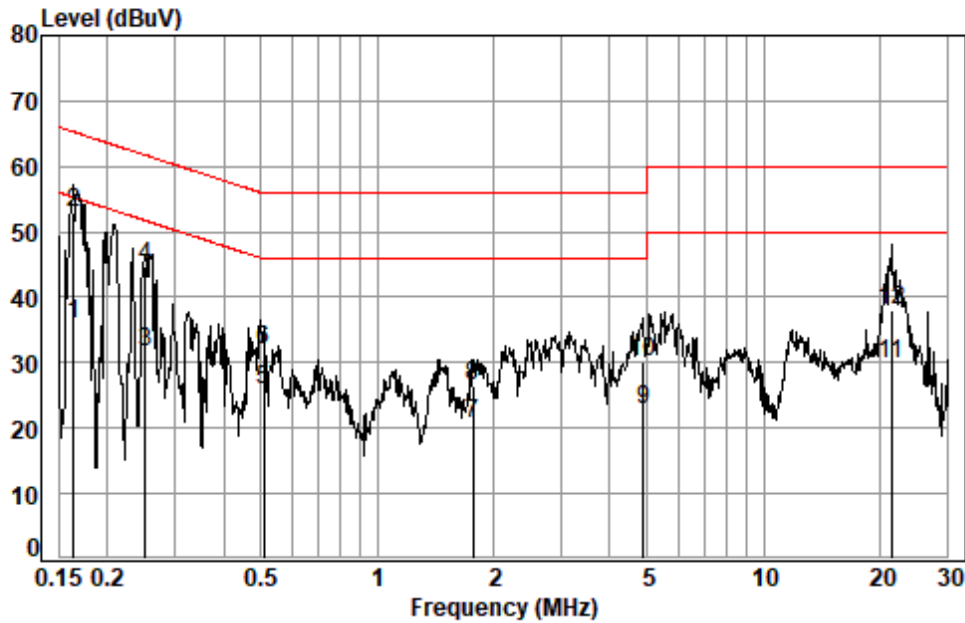
Site : Shielding Room
Condition: Line
Job No. : 02578CR
Test mode: g

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1722	0.02	9.59	24.40	54.86	-20.85	Average
2	0.1722	0.02	9.59	42.74	64.86	-12.51	QP
3	0.2548	0.03	9.59	21.67	51.60	-20.31	Average
4	0.2548	0.03	9.59	33.61	61.60	-18.37	QP
5	0.5407	0.06	9.59	20.21	46.00	-16.14	Average
6	0.5407	0.06	9.59	25.48	56.00	-20.87	QP
7	1.2226	0.11	9.60	12.06	46.00	-24.23	Average
8	1.2226	0.11	9.60	17.09	56.00	-29.20	QP
9	4.5494	0.17	9.66	15.06	46.00	-21.11	Average
10	4.5494	0.17	9.66	23.58	56.00	-22.59	QP
11	5.7743	0.17	9.69	19.30	50.00	-20.84	Average
12	5.7743	0.17	9.69	25.43	60.00	-24.71	QP



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

Mode:g; Line:Neutral Line



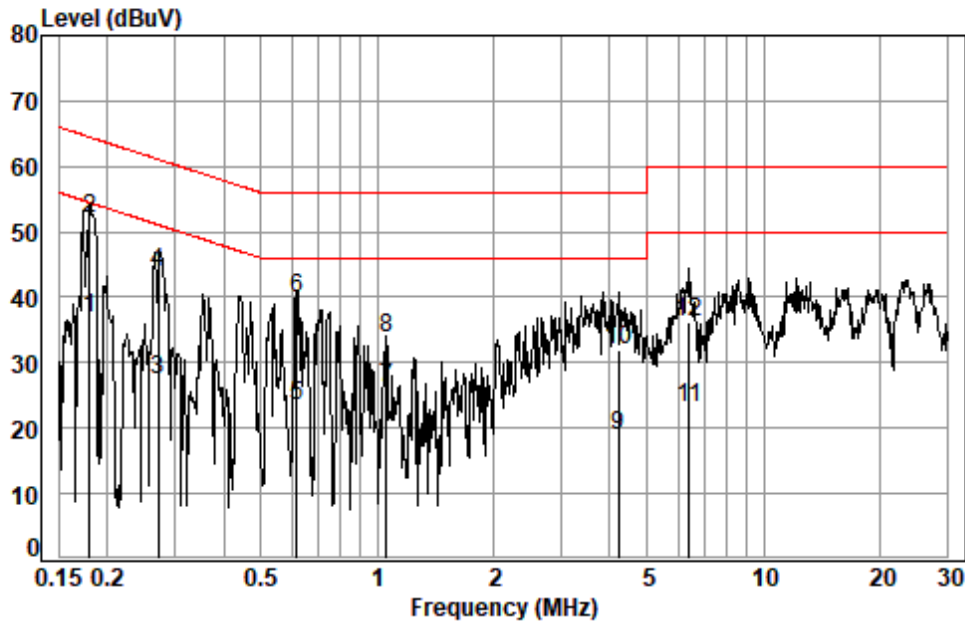
Site : Shielding Room
Condition: Neutral
Job No. : 02578CR
Test mode: g

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1633	0.01	9.55	26.26	55.30	-19.48	Average
2	0.1633	0.01	9.55	43.49	65.30	-12.25	QP
3	0.2508	0.03	9.54	21.92	51.73	-20.24	Average
4	0.2508	0.03	9.54	35.17	61.73	-16.99	QP
5	0.5074	0.06	9.54	16.38	46.00	-20.02	Average
6	0.5074	0.06	9.54	22.47	56.00	-23.93	QP
7	1.7716	0.15	9.56	10.87	46.00	-25.42	Average
8	1.7716	0.15	9.56	16.71	56.00	-29.58	QP
9	4.8997	0.17	9.63	12.90	46.00	-23.30	Average
10	4.8997	0.17	9.63	20.33	56.00	-25.87	QP
11	21.3725	0.25	10.62	19.06	50.00	-20.07	Average
12	21.3725	0.25	10.62	27.26	60.00	-21.87	QP



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

Mode:h; Line:Live Line



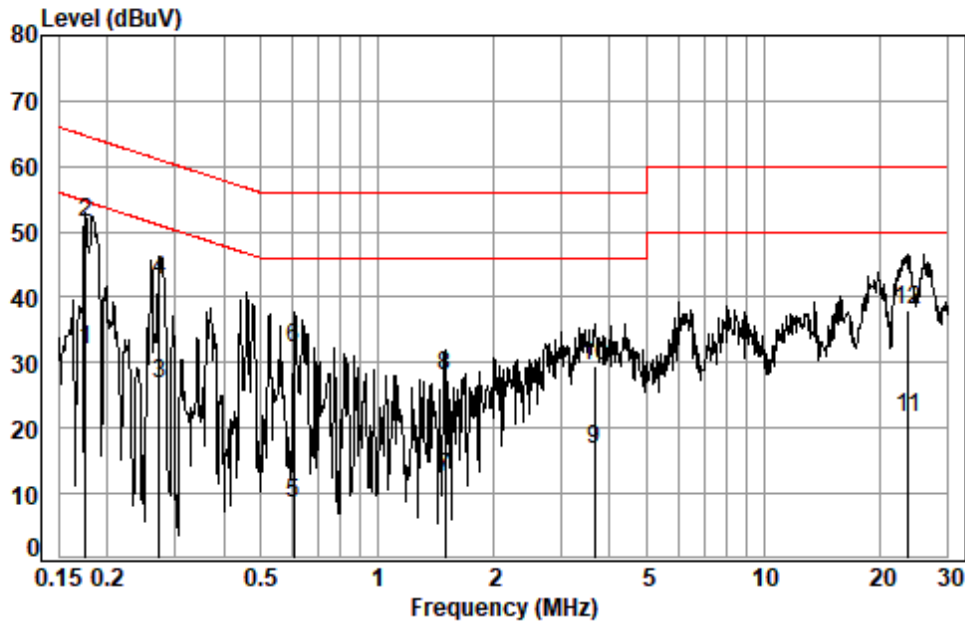
Site : Shielding Room
Condition: Line
Job No. : 02578CR
Test mode: h

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1796	0.02	9.59	27.14	54.50	-17.75	Average
2	0.1796	0.02	9.59	42.54	64.50	-12.35	QP
3	0.2715	0.03	9.59	17.87	51.07	-23.58	Average
4	0.2715	0.03	9.59	34.32	61.07	-17.13	QP
5	0.6205	0.07	9.60	13.61	46.00	-22.72	Average
6	0.6205	0.07	9.60	30.07	56.00	-16.26	QP
7	1.0541	0.09	9.60	16.54	46.00	-19.77	Average
8	1.0541	0.09	9.60	24.02	56.00	-22.29	QP
9	4.2242	0.16	9.65	8.90	46.00	-27.29	Average
10	4.2242	0.16	9.65	22.14	56.00	-24.05	QP
11	6.4198	0.17	9.71	13.13	50.00	-26.99	Average
12	6.4198	0.17	9.71	26.20	60.00	-23.92	QP



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

Mode:h; Line:Neutral Line



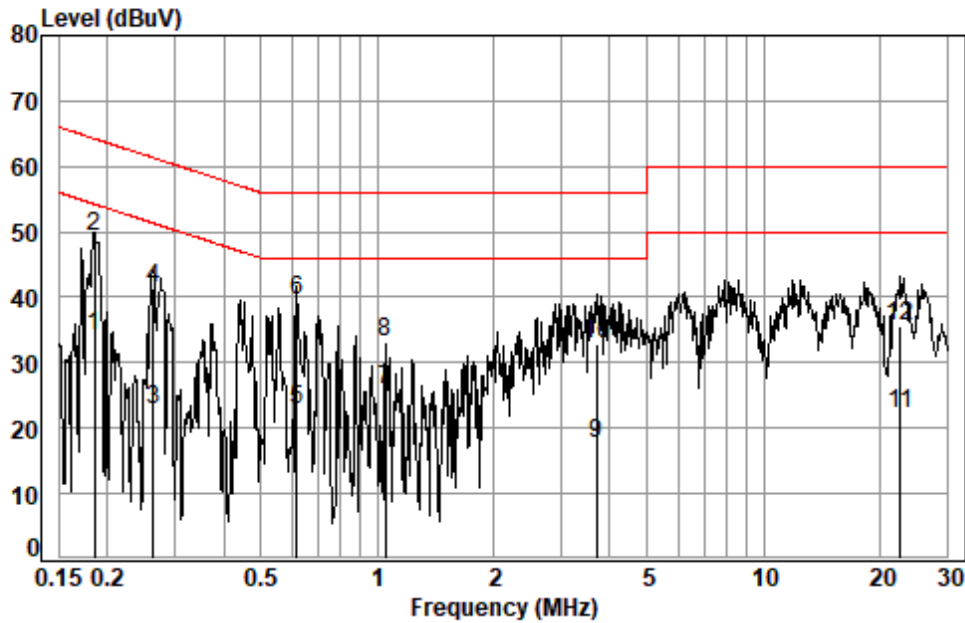
Site : Shielding Room
Condition: Neutral
Job No. : 02578CR
Test mode: h

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1758	0.02	9.55	22.28	54.68	-22.83	Average
2	0.1758	0.02	9.55	41.85	64.68	-13.26	QP
3	0.2730	0.04	9.54	17.25	51.03	-24.20	Average
4	0.2730	0.04	9.54	32.92	61.03	-18.53	QP
5	0.6075	0.07	9.55	-0.99	46.00	-37.37	Average
6	0.6075	0.07	9.55	22.71	56.00	-23.67	QP
7	1.4953	0.13	9.56	2.68	46.00	-33.63	Average
8	1.4953	0.13	9.56	18.37	56.00	-27.94	QP
9	3.6418	0.16	9.59	7.01	46.00	-29.24	Average
10	3.6418	0.16	9.59	19.61	56.00	-26.64	QP
11	23.7616	0.26	10.60	10.86	50.00	-28.28	Average
12	23.7616	0.26	10.60	27.22	60.00	-21.92	QP



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

Mode:i; Line:Live Line



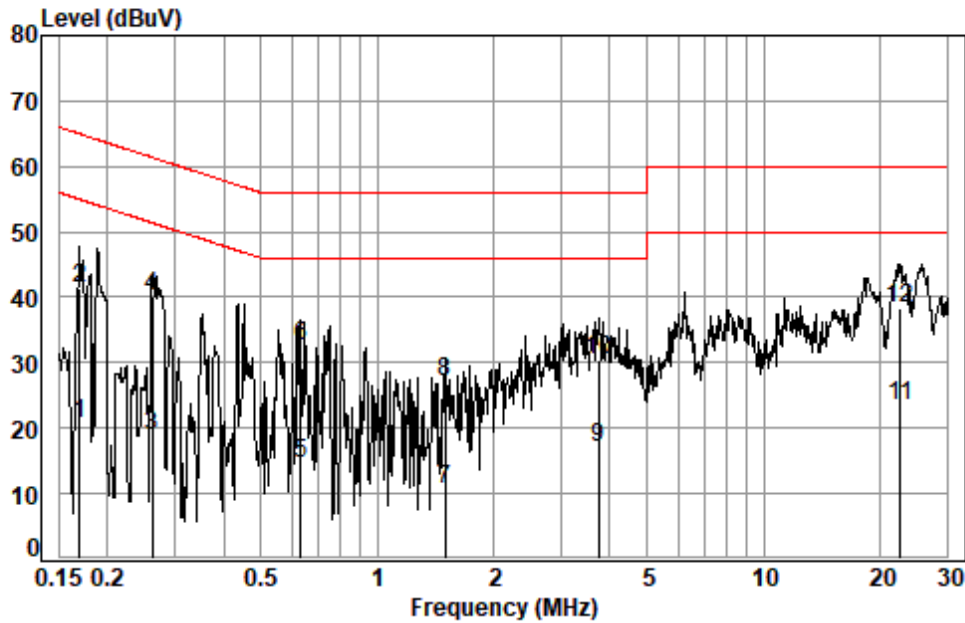
Site : Shielding Room
Condition: Line
Job No. : 02578CR
Test mode: i

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1854	0.02	9.59	24.45	54.24	-20.18	Average
2	0.1854	0.02	9.59	39.64	64.24	-14.99	QP
3	0.2630	0.03	9.59	13.28	51.34	-28.44	Average
4	0.2630	0.03	9.59	31.85	61.34	-19.87	QP
5	0.6173	0.07	9.60	13.01	46.00	-23.32	Average
6	0.6173	0.07	9.60	30.01	56.00	-16.32	QP
7	1.0485	0.09	9.60	16.07	46.00	-20.24	Average
8	1.0485	0.09	9.60	23.40	56.00	-22.91	QP
9	3.7001	0.16	9.66	7.88	46.00	-28.30	Average
10	3.7001	0.16	9.66	23.14	56.00	-23.04	QP
11	22.6551	0.25	10.55	11.56	50.00	-27.64	Average
12	22.6551	0.25	10.55	24.93	60.00	-24.27	QP



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

Mode:i; Line:Neutral Line



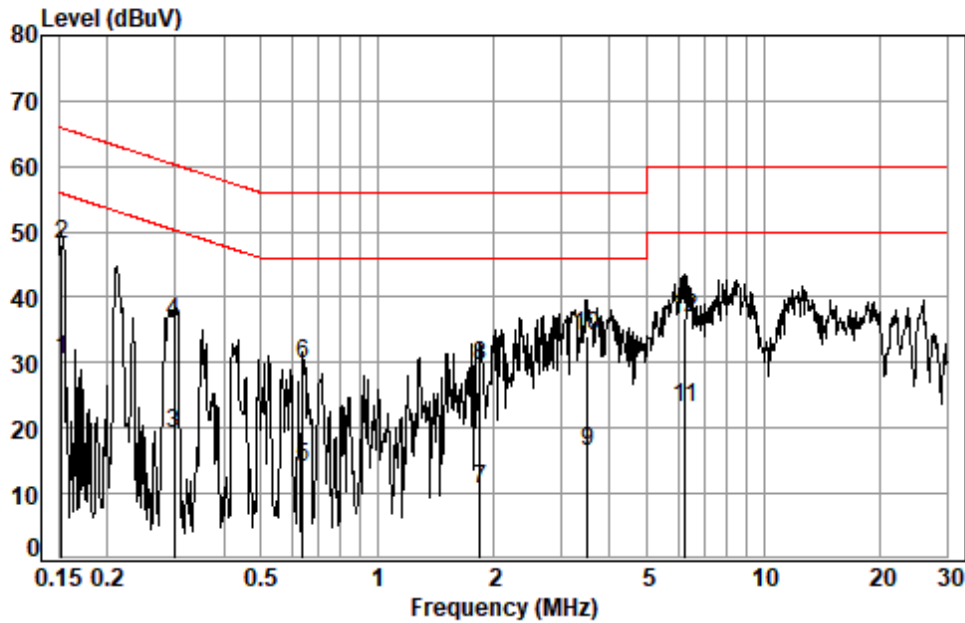
Site : Shielding Room
Condition: Neutral
Job No. : 02578CR
Test mode: i

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1694	0.02	9.55	11.26	54.99	-34.16	Average
2	0.1694	0.02	9.55	31.82	64.99	-23.60	QP
3	0.2616	0.03	9.54	9.39	51.38	-32.42	Average
4	0.2616	0.03	9.54	30.66	61.38	-21.15	QP
5	0.6338	0.07	9.55	5.06	46.00	-31.32	Average
6	0.6338	0.07	9.55	22.88	56.00	-23.50	QP
7	1.5033	0.13	9.56	1.11	46.00	-35.20	Average
8	1.5033	0.13	9.56	17.51	56.00	-28.80	QP
9	3.7395	0.16	9.60	7.17	46.00	-29.07	Average
10	3.7395	0.16	9.60	20.54	56.00	-25.70	QP
11	22.6551	0.25	10.61	12.67	50.00	-26.47	Average
12	22.6551	0.25	10.61	27.36	60.00	-21.78	QP



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

Mode:j; Line:Live Line



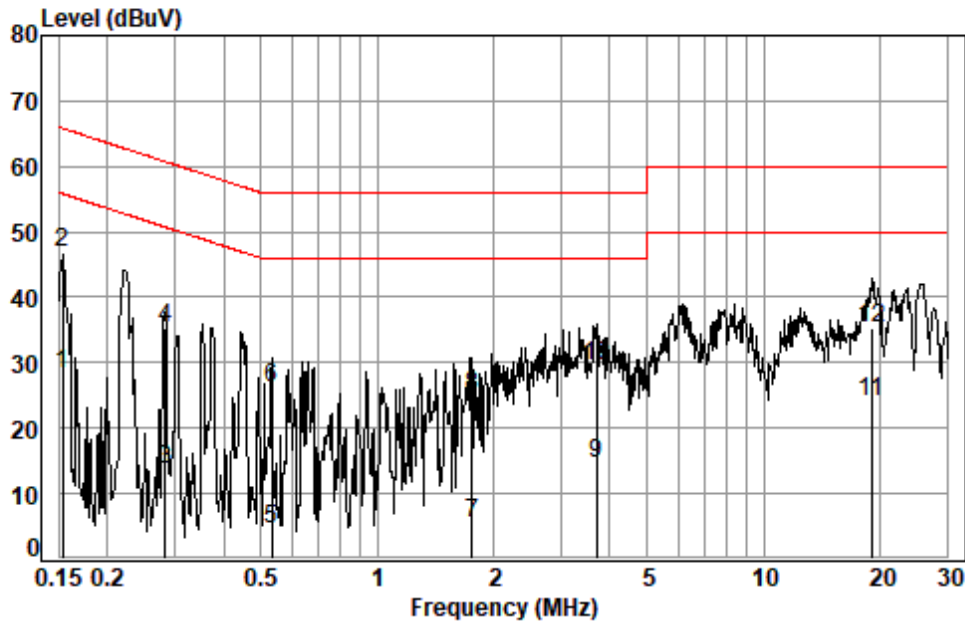
Site : Shielding Room
Condition: Line
Job No. : 02578CR
Test mode: j

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1524	0.01	9.59	20.71	55.87	-25.56	Average
2	0.1524	0.01	9.59	38.61	65.87	-17.66	QP
3	0.2987	0.04	9.59	9.52	50.28	-31.13	Average
4	0.2987	0.04	9.59	26.58	60.28	-24.07	QP
5	0.6406	0.07	9.60	4.18	46.00	-32.15	Average
6	0.6406	0.07	9.60	20.00	56.00	-26.33	QP
7	1.8483	0.15	9.62	0.76	46.00	-35.47	Average
8	1.8483	0.15	9.62	19.72	56.00	-26.51	QP
9	3.5092	0.16	9.66	6.75	46.00	-29.43	Average
10	3.5092	0.16	9.66	24.32	56.00	-21.86	QP
11	6.2520	0.17	9.70	13.14	50.00	-26.99	Average
12	6.2520	0.17	9.70	27.08	60.00	-23.05	QP



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

Mode:j; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 02578CR
Test mode: j

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1532	0.01	9.55	18.84	28.40	55.82	-27.42 Average
2	0.1532	0.01	9.55	37.40	46.96	65.82	-18.86 QP
3	0.2833	0.04	9.54	4.18	13.76	50.72	-36.96 Average
4	0.2833	0.04	9.54	25.83	35.41	60.72	-25.31 QP
5	0.5322	0.06	9.54	-5.03	4.57	46.00	-41.43 Average
6	0.5322	0.06	9.54	16.45	26.05	56.00	-29.95 QP
7	1.7623	0.15	9.56	-4.29	5.42	46.00	-40.58 Average
8	1.7623	0.15	9.56	15.16	24.87	56.00	-31.13 QP
9	3.7001	0.16	9.59	4.75	14.50	46.00	-31.50 Average
10	3.7001	0.16	9.59	19.88	29.63	56.00	-26.37 QP
11	19.0210	0.23	10.57	13.20	24.00	50.00	-26.00 Average
12	19.0210	0.23	10.57	24.44	35.24	60.00	-24.76 QP



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

6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Limit:	
30MHz -88MHz	40.0(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBμV/m) quasi-peak
216MHz-960MHz	46.0(dBμV/m) quasi-peak
960MHz-1000MHz	54.0(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

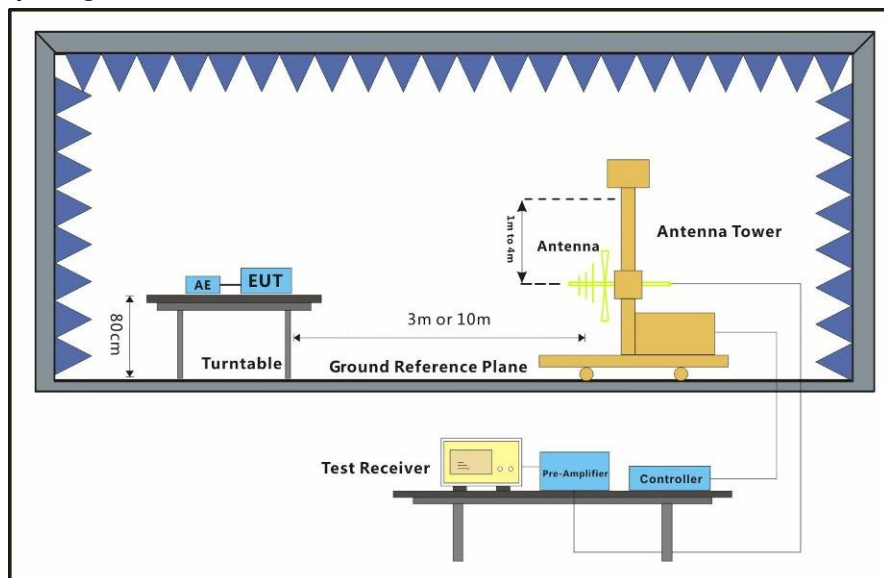
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

- Pretest these modes to find the worst case:
- f: Transfer data between the EUT1 and the PC+USB cable
 - g: Transfer data between the EUT2 and the PC+USB cable
 - h: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card) +earphone+EUT(worst)+adapter
 - i: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front) +earphone+EUT(worst)+adapter
 - j: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back) +earphone+EUT(worst)+adapter
- The worst case for final test:
- f: Transfer data between the EUT1 and the PC+USB cable
 - g: Transfer data between the EUT2 and the PC+USB cable

6.2.2 Test Setup Diagram

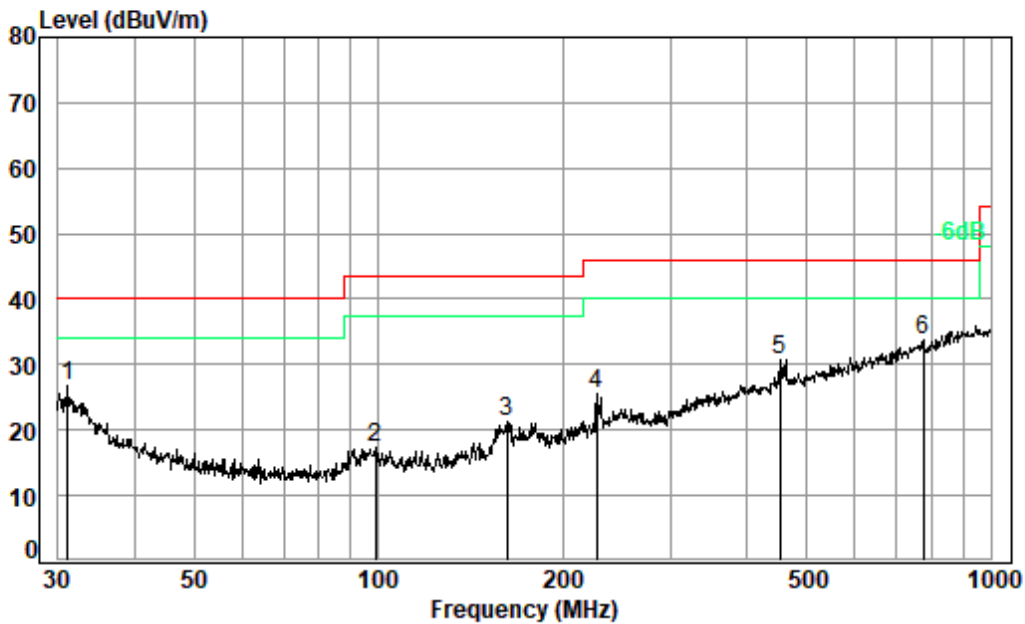


6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



Mode:f; Polarization:Horizontal



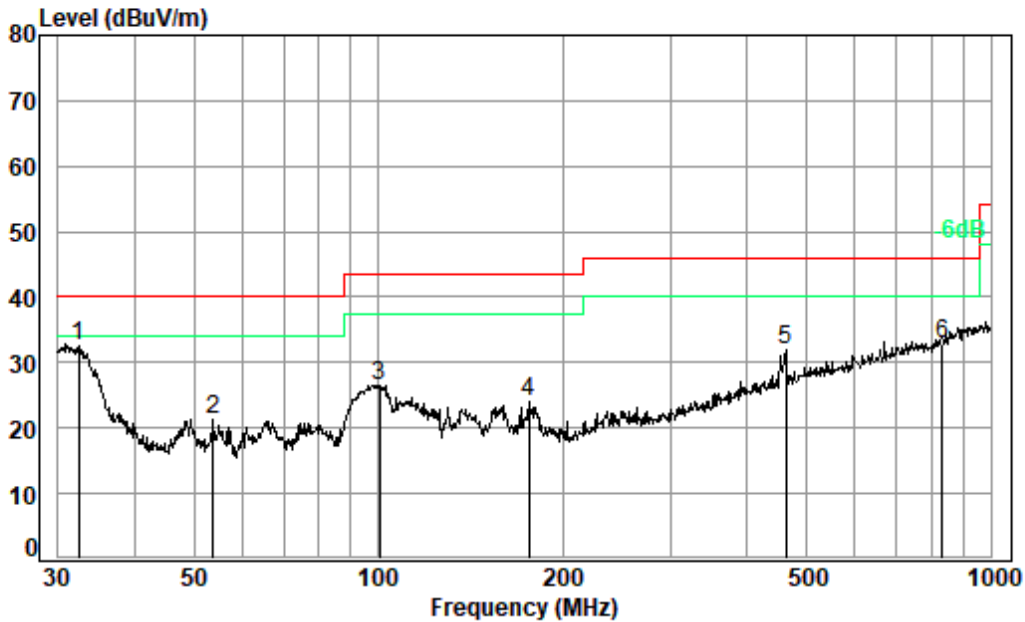
Condition: 3m HORIZONTAL
Job No. : 02578CR
Test Mode: f

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.07	0.60	21.89	27.73	32.09	26.85	40.00	-13.15	QP
2	98.83	1.19	13.90	27.64	29.75	17.20	43.50	-26.30	QP
3	162.04	1.34	15.54	27.31	31.68	21.25	43.50	-22.25	QP
4	226.89	1.56	17.77	27.08	33.15	25.40	46.00	-20.60	QP
5	452.72	2.42	23.62	27.65	32.48	30.87	46.00	-15.13	QP
6	pp 776.88	3.14	28.37	27.77	30.15	33.89	46.00	-12.11	QP



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

Mode:f; Polarization:Vertical



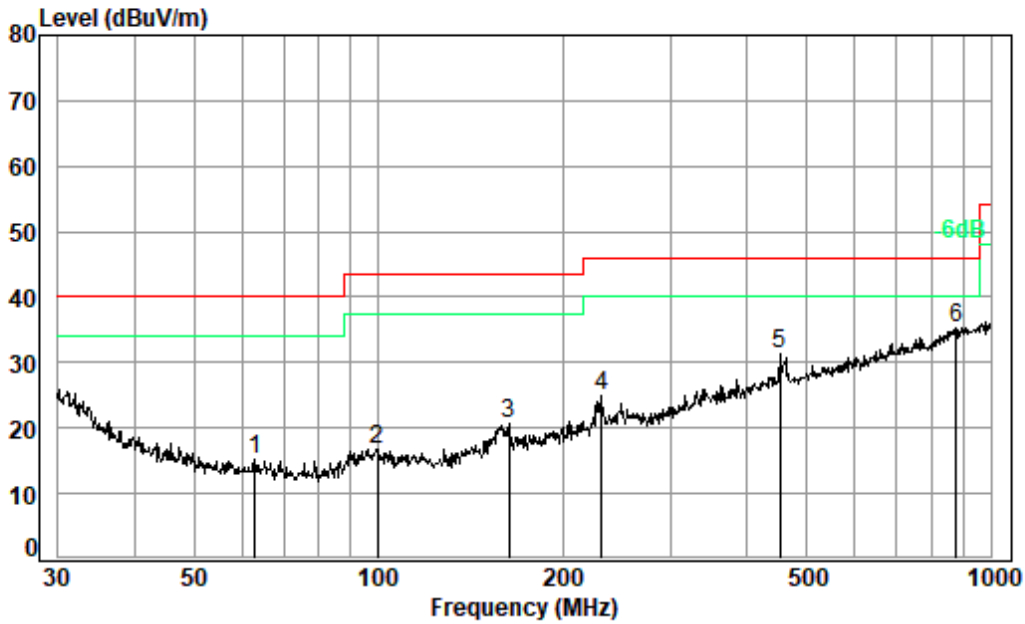
Condition: 3m VERTICAL
Job No. : 02578CR
Test Mode: f

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	32.41	0.60	21.16	27.72	38.38	32.42	40.00	-7.58 QP
2		53.69	0.80	13.81	27.69	34.35	21.27	40.00	-18.73 QP
3		100.58	1.20	13.97	27.64	39.05	26.58	43.50	-16.92 QP
4		176.27	1.36	15.83	27.25	34.09	24.03	43.50	-19.47 QP
5		462.35	2.46	23.83	27.69	33.22	31.82	46.00	-14.18 QP
6		833.32	3.34	28.95	27.57	28.24	32.96	46.00	-13.04 QP



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

Mode:g; Polarization:Horizontal



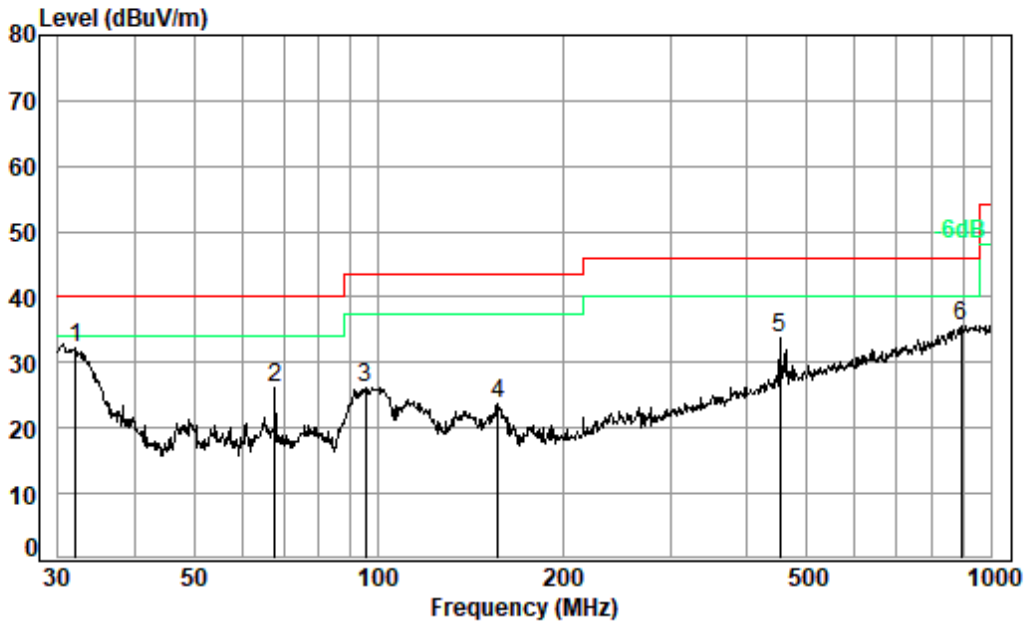
Condition: 3m HORIZONTAL
Job No. : 02578CR
Test Mode: g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	62.87	0.80	13.08	27.67	29.00	15.21	40.00	-24.79	QP
2	99.53	1.20	13.96	27.64	29.36	16.88	43.50	-26.62	QP
3	163.18	1.34	15.57	27.31	31.23	20.83	43.50	-22.67	QP
4	231.72	1.58	18.15	27.07	32.40	25.06	46.00	-20.94	QP
5	452.72	2.42	23.62	27.65	32.87	31.26	46.00	-14.74	QP
6	pp 878.32	3.52	29.53	27.38	29.66	35.33	46.00	-10.67	QP



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

Mode:g; Polarization:Vertical



Condition: 3m VERTICAL
Job No. : 02578CR
Test Mode: g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	32.07	0.60	21.34	27.72	38.03	32.25	40.00	-7.75	QP
2	67.91	0.80	12.88	27.67	40.25	26.26	40.00	-13.74	QP
3	95.43	1.16	13.60	27.64	39.11	26.23	43.50	-17.27	QP
4	157.01	1.33	15.25	27.33	34.41	23.66	43.50	-19.84	QP
5	452.72	2.42	23.62	27.65	35.32	33.71	46.00	-12.29	QP
6	893.86	3.58	29.72	27.32	29.76	35.74	46.00	-10.26	QP



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

6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: Above 1GHz
 Measurement Distance: 3m
 Limit:
 Above 1GHz 74(dB μ V/m) peak, 54(dB μ V/m) average
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 100M to18000MHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

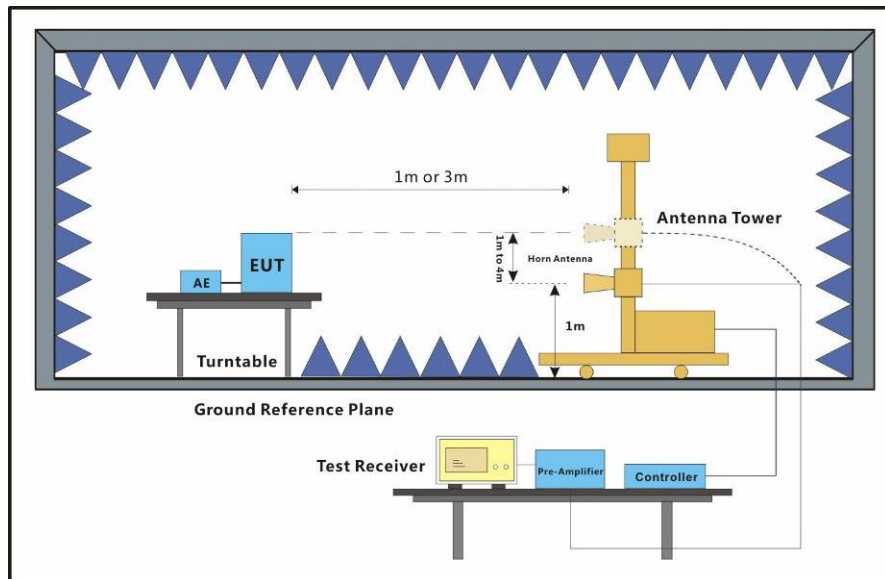
Pretest these modes to find the worst case:

- f: Transfer data between the EUT1 and the PC+USB cable
- g: Transfer data between the EUT2 and the PC+USB cable
- h: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card) +earphone+EUT(worst)+adapter
- i: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front) +earphone+EUT(worst)+adapter
- j: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back) +earphone+EUT(worst)+adapter

The worst case for final test:

- f: Transfer data between the EUT1 and the PC+USB cable
- g: Transfer data between the EUT2 and the PC+USB cable
- h: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card) +earphone+EUT1+adapter

6.3.2 Test Setup Diagram



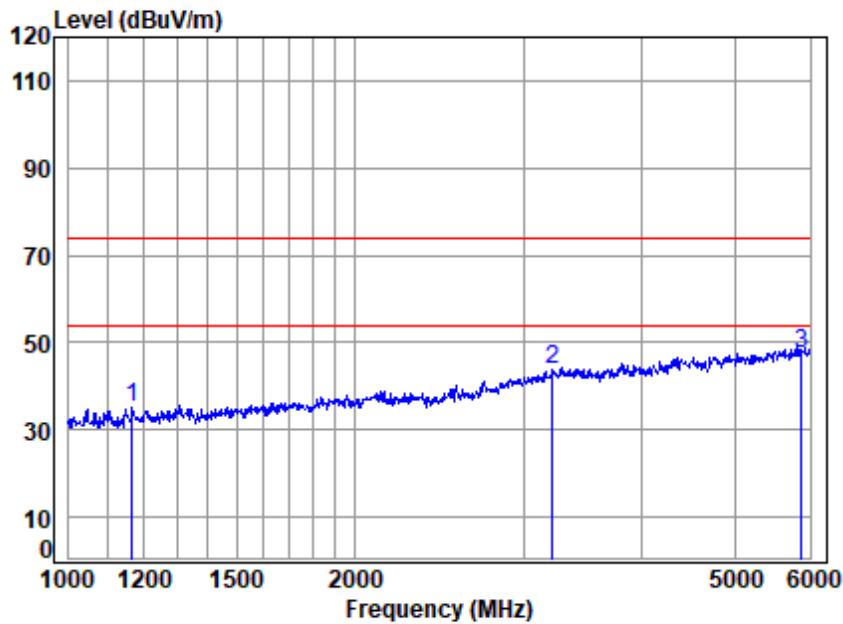
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

6.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.



Mode:f; Polarization:Horizontal



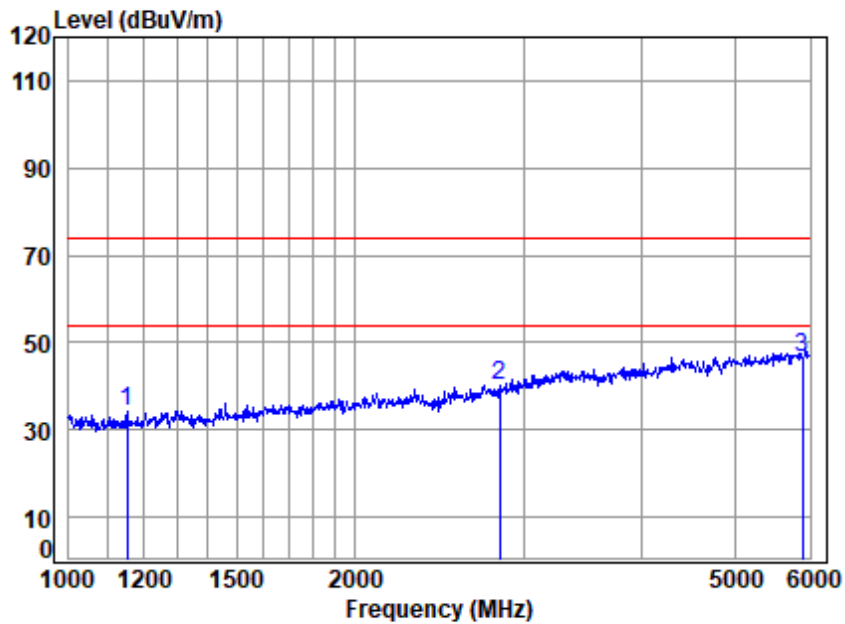
Site : chamber
Condition: 3m HORIZONTAL
Job No : 02578CR
Mode : f
Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1166.597	2.49	24.44	40.25	48.31	34.99	74.00	-39.01	Peak
2	3216.286	5.40	31.26	41.43	48.44	43.67	74.00	-30.33	Peak
3	5882.902	7.09	34.99	42.31	47.75	47.52	74.00	-26.48	Peak



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

Mode:f; Polarization:Vertical



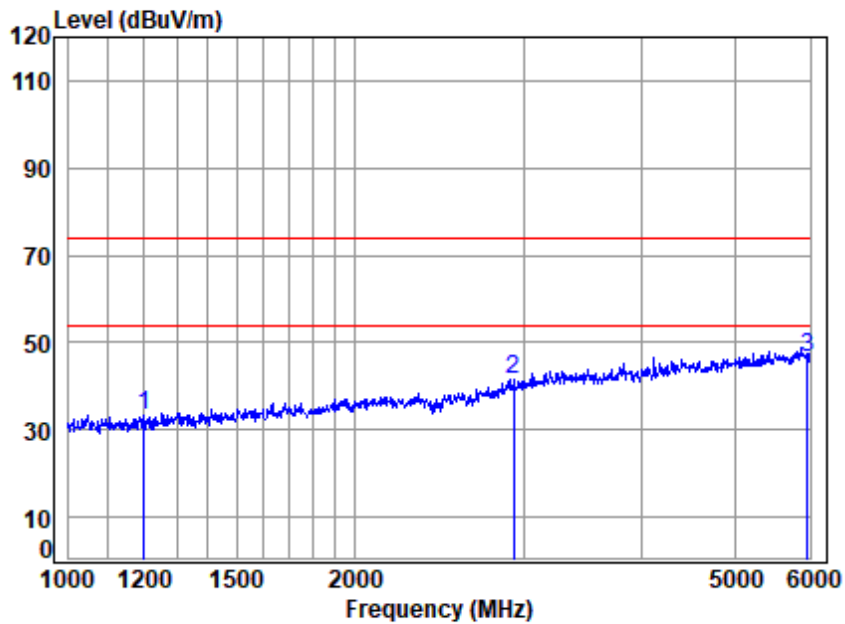
Site : chamber
Condition: 3m VERTICAL
Job No : 02578CR
Mode : f
Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.057	2.42	24.37	40.24	47.71	34.26	74.00	-39.74	Peak
2	2832.082	3.95	30.20	41.14	47.15	40.16	74.00	-33.84	Peak
3	5893.452	7.10	35.00	42.31	46.83	46.62	74.00	-27.38	Peak



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

Mode:g; Polarization:Horizontal



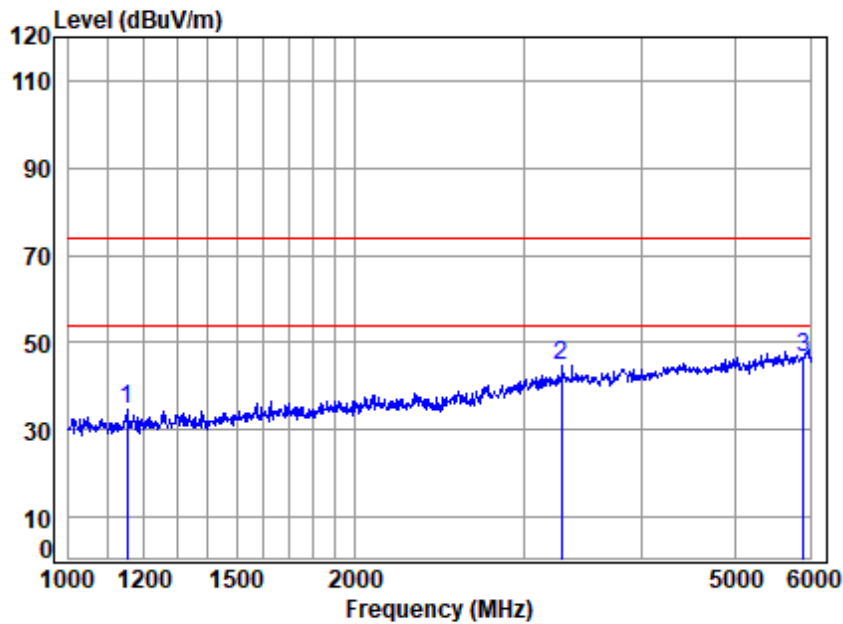
Site : chamber
Condition: 3m HORIZONTAL
Job No : 02578CR
Mode : g
Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1198.376	2.62	24.58	40.28	46.38	33.30	74.00	-40.70	Peak
2	2930.156	4.30	30.62	41.18	47.88	41.62	74.00	-32.38	Peak
3	5967.835	7.22	35.07	42.26	46.41	46.44	74.00	-27.56	Peak



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

Mode:g; Polarization:Vertical



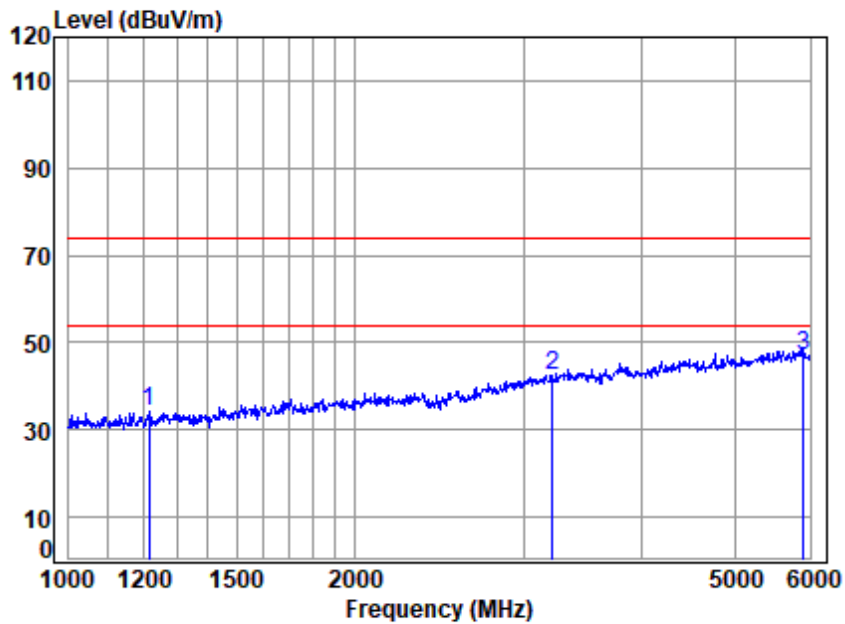
Site : chamber
Condition: 3m VERTICAL
Job No : 02578CR
Mode : g
Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.057	2.42	24.37	40.24	47.95	34.50	74.00	-39.50	Peak
2	3292.082	5.96	31.38	41.51	49.01	44.84	74.00	-29.16	Peak
3	5904.021	7.12	35.01	42.30	46.88	46.71	74.00	-27.29	Peak



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

Mode:h; Polarization:Horizontal

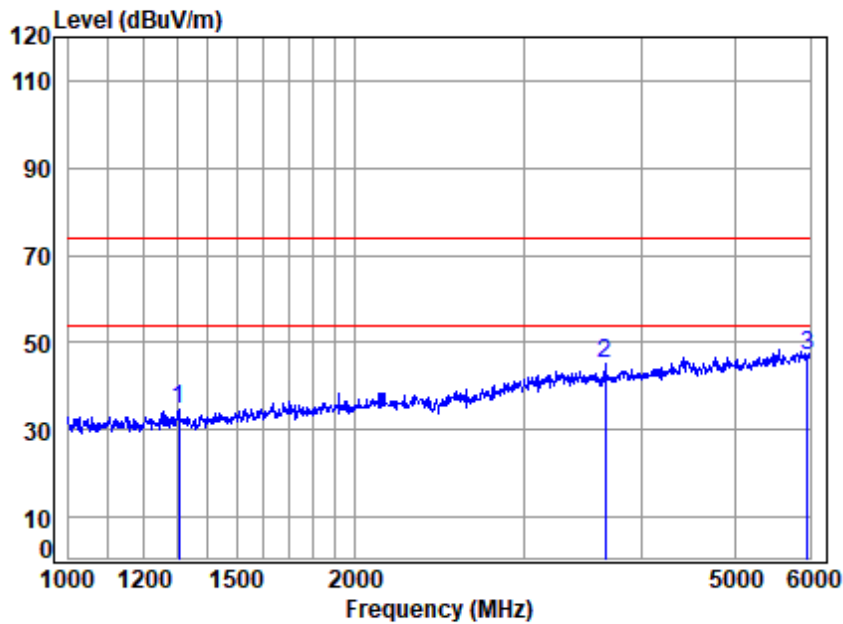


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02578CR
Mode : h
Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.502	2.67	24.65	40.29	47.24	34.27	74.00	-39.73	Peak
2	3222.054	5.45	31.27	41.44	47.28	42.56	74.00	-31.44	Peak
3	5904.021	7.12	35.01	42.30	47.36	47.19	74.00	-26.81	Peak



Mode:h; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 02578CR
Mode : h
Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1306.004	2.87	25.05	40.37	47.07	34.62	74.00	-39.38	Peak
2	3659.161	5.26	32.03	41.86	49.60	45.03	74.00	-28.97	Peak
3	5957.151	7.20	35.06	42.27	47.23	47.22	74.00	-26.78	Peak



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

7 Photographs

7.1 EUT Test Setup

Please refer to setup photos.

7.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos.

- End of the Report -

