

**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

588 West Jindu Road, Songjiang District, Shanghai, China

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Report No.: SHEMO10030019301
Page 1 of 17

EMC TEST REPORT

Application No.: SHEMO10030019301

Applicant: SIERRA WIRELESS Inc

FCC ID: N7NQ2687

Equipment Under Test (EUT):

NOTE: The following sample(s) submitted was/were identified on behalf of the client as

Product Name: Airprime Q2687

Brand Name: WAVECOM

Model Name: Airprime Q2687

Marketing Name: AirPrime Q2687 Intelligent Embedded Module

Standards: FCC PART 15:2008 Section B

Date of Receipt: Feb 16, 2010

Date of Test: Mar 22, 2010 to Mar 23, 2010

Date of Issue: Mar 23, 2010

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.



Tino Pan
E&E Section Manager
SGS-CSTC(Shanghai) Co., Ltd.



Jack Wu
E&E Project Engineer
SGS-CSTC(Shanghai) Co., Ltd

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Report No.: SHEMO10030019301

Page: 2 of 17

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2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission 30MHz-1000MHz	CFR 47 Part 15.109	ANSI C63.4: 2003	Class B	PASS
Conducted Emission 150KHz-30MHz	CFR 47 Part 15.107	ANSI C63.4: 2003	Class B	PASS

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Report No.: SHEMO10030019301

Page: 3 of 17

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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	2
3 CONTENTS.....	3
4 GENERAL INFORMATION	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF E.U.T.	4
4.3 DETAILS OF SUPPORT UNITS.....	4
4.4 STANDARDS APPLICABLE FOR TESTING.....	4
4.5 TEST LOCATION.....	5
4.6 TEST FACILITY	5
5 EQUIPMENT USED DURING TEST	6
6 EMISSION TEST RESULTS	8
6.1 RADIATED EMISSIONS	8
6.1.1 <i>E.U.T. Operation</i>	8
6.1.2 <i>Test setup:</i>	8
6.1.3 <i>Measurement Data:</i>	9
6.2 CONDUCTED EMISSIONS	13
6.2.1 <i>E.U.T. Operation</i>	13
6.2.2 <i>Test Result and Measurement Data</i>	13

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Report No.: SHEMO10030019301

Page: 4 of 17

Telephone: +86 (0) 21 6191 5666

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4 General Information

4.1 Client Information

Applicant: SIERRA WIRELESS Inc
Address of Applicant: 13811 Wireless Way Richmond, British Columbia Canada,
V6V 3A4
Manufacturer: SIERRA WIRELESS Inc
Address of
Manufacturer: 13811 Wireless Way Richmond, British Columbia Canada,
V6V 3A4

4.2 General Description of E.U.T.

Product Name: Airprime Q2687
Brand Name: WAVECOM
Model Name: Airprime Q2687
Marketing Name: AirPrime Q2687 Intelligent Embedded Module
FCC ID: N7NQ2687
Support Frequency Band: GSM 850/1900/900/1800
Testing frequency Band: GSM 850/1900
Hardware Version: 520
Software Version: Firmware 7.43
IMEI: 35406001385405

4.3 Details of support units

Name / Function	Model No.	Remark
N/A	N/A	N/A

4.4 Standards Applicable for Testing

The standards used were CFR 47 Part 15B:

Table 1 : Tests Carried Out Under CFR 47 Part 15B :

Standard	Status
FCC Part 15 Subpart B	Radiated Emission

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Report No.: SHEMO10030019301

Page: 5 of 17

Telephone: +86 (0) 21 6191 5666

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FCC Part 15 Subpart B	Conducted Emission	√
×	Indicates that the test is not applicable	
√	Indicates that the test is applicable	

4.5 Test Location

Tests were performed at SGS E&E EMC lab

SGS-CSTC EMC Laboratory, No.588 West Jindu Road, Songjiang District, Shanghai, China

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4.6 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2011-07-29.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2012-03-17.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2011-09-29.

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Report No.: SHEMO10030019301

Page: 6 of 17

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5 Equipment Used during Test

Radiated Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2009-6-4	2010-6-3
2	ANTENNA	SCHWARZBECK	VULB9168	9168-313	2009-6-4	2010-6-3
3	ANTENNA	SCHWARZBECK	BBHA9120D	9120D-679	2009-6-4	2010-6-3
4	ANTENNA	SCHWARZBECK	BBHA9170	9170-373	2009-6-4	2010-6-3
5	TURNTABLE	INNCO	DS 2000S-1T	/	/	/
6	UNIVERSAL RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMU 200	112012	2009-08-25	2010-08-24
7	DC Power	KIKUSUI	PMC35—3	NF100260	2010-1-16	2011-1-15

Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2009-06-26	2010-06-25
2	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2009-07-30	2010-07-29
3	DC Power	ShangHai SongBao	WBH3200	/	2009-12-11	2010-12-10
4	UNIVERSAL RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMU 200	112012	2009-08-25	2010-08-24

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Report No.: SHEMO10030019301

Page: 7 of 17

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General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY-2003P	/	2009-10-15	2010-10-14
2	CLAMP METER	FLUKE	316	86080010	2009-04-21	2010-04-20
3	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2009-10-21	2010-10-20
4	Digital illuminance meter	TES electrical electronic Corp.	TES-1330A	050602219	2009-10-16	2010-10-15

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Report No.: SHEMO10030019301

Page: 8 of 17

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6 Emission Test Results

6.1 Radiated Emissions

Test Requirement:	CFR 47 Part 15.109
Test Method:	ANSI C63.4:2003
Test Date:	Mar 22, 2010
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Detector:	Peak for pre-scan (120kHz resolution bandwidth)
Result:	PASS

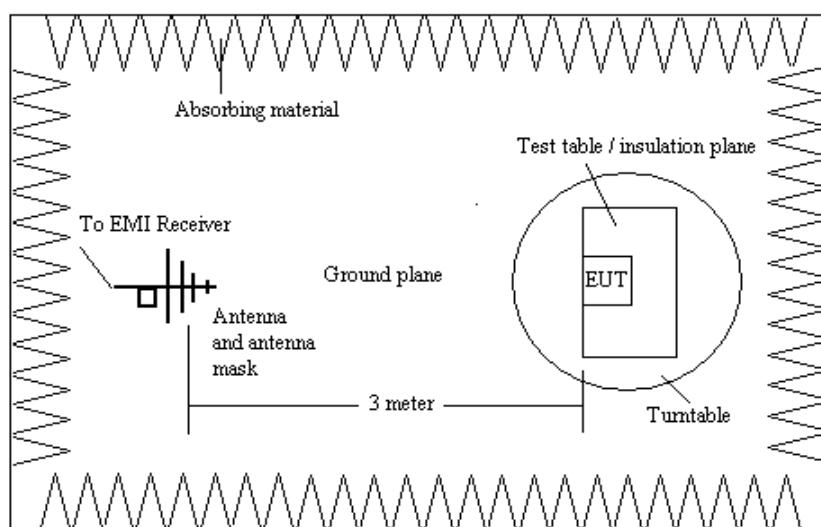
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 45 % RH Atmospheric Pressure: 1012 mbar

EUT Operation: Test in GSM 850/1900 idle mode.

6.1.2 Test setup:



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Report No.: SHEMO10030019301

Page: 9 of 17

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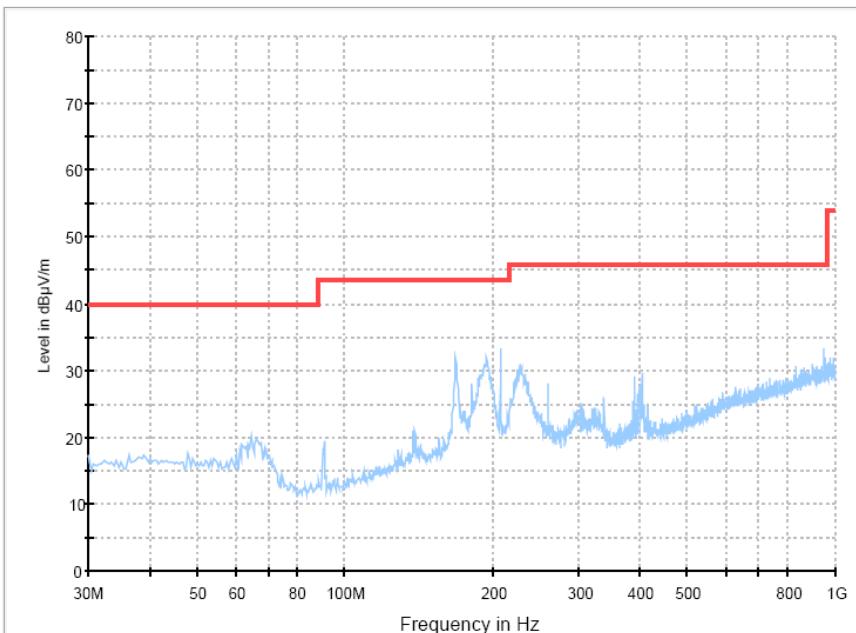
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6.1.3 Measurement Data:

Test in GSM 850 idle mode.

Horizontal(30MHz -1GHz)



Frequency (MHz)	Actual Level QP (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Margin	
				Pass	Fail
30.00	*	40.0	*		
100.00	*	43.5	*		
160.00	*	43.5	*		
200.00	*	43.5	*		
800.00	*	46.0	*		
1000.00	*	54.0	*		

“*” means the emission level is 6dB lower than the relevant limit.

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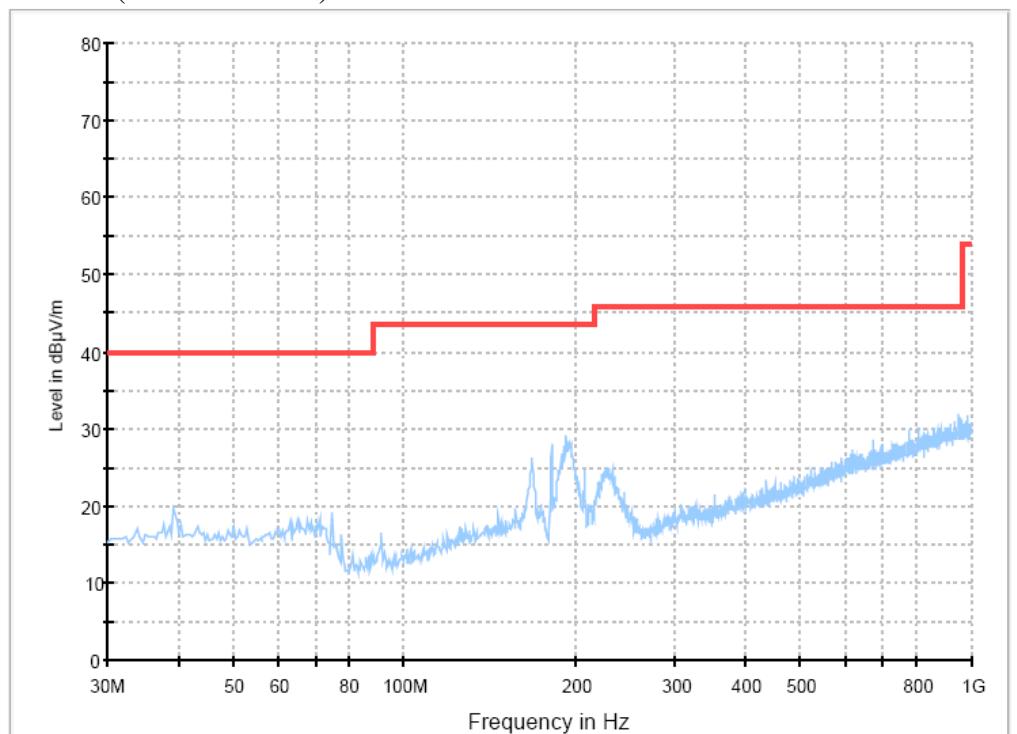
Page: 10 of 17

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Vertical (30MHz -1GHz):



Frequency (MHz)	Actual Level QP (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

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Report No.: SHEMO10030019301

Page: 11 of 17

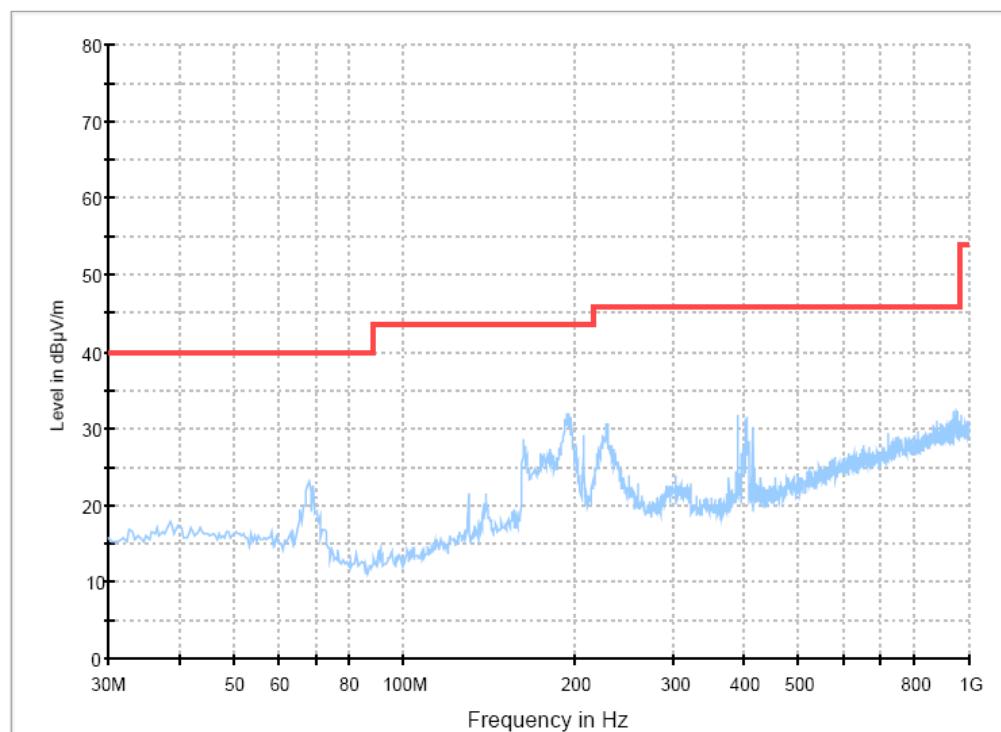
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Test in GSM 1900 idle mode.

Horizontal(30MHz -1GHz)



Frequency (MHz)	Actual Level QP (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

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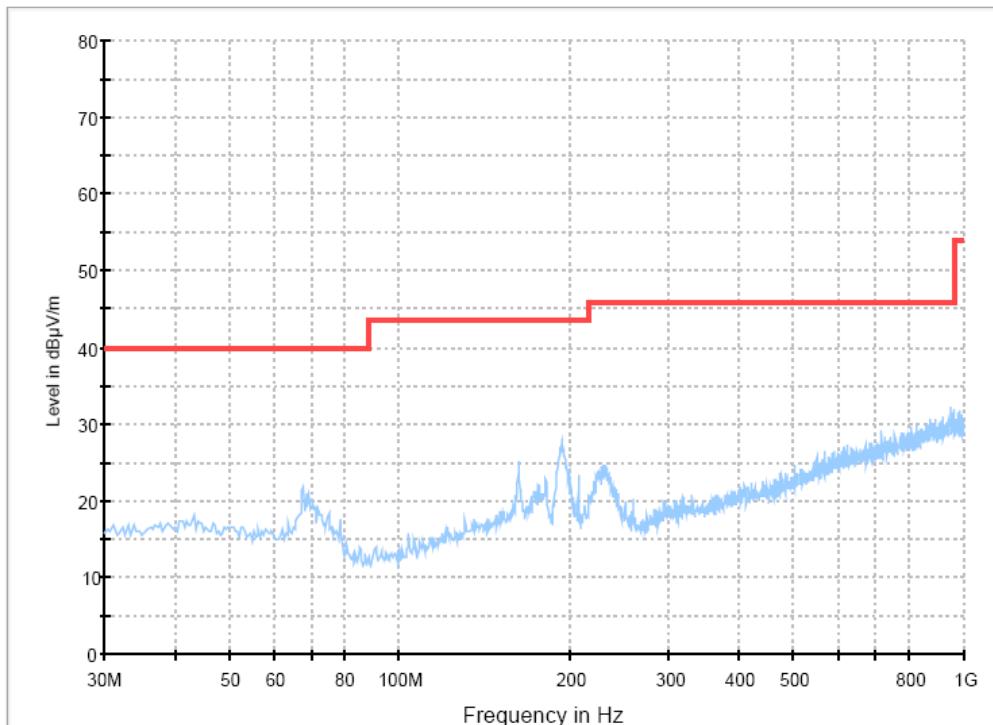
Page: 12 of 17

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Vertical (30MHz -1GHz):



Frequency (MHz)	Actual Level QP (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

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Report No.: SHEMO10030019301

Page: 13 of 17

Telephone: +86 (0) 21 6191 5666

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6.2 Conducted Emissions

Test Requirement: CFR 47 part 15.107

Test Method: ANSI C63.4:2003

Test Date: Mar 22, 2010

Frequency Range: 150kHz to 30MHz

Limit:

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Result:

PASS

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0°C Humidity: 45% RH Atmospheric Pressure: 1012 mbar

EUT Operation: Test in GSM 850/1900 mode.

6.2.2 Test Result and Measurement Data

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588 West Jindu Road, Songjiang District, Shanghai, China

Report No.: SHEMO10030019301

Page: 14 of 17

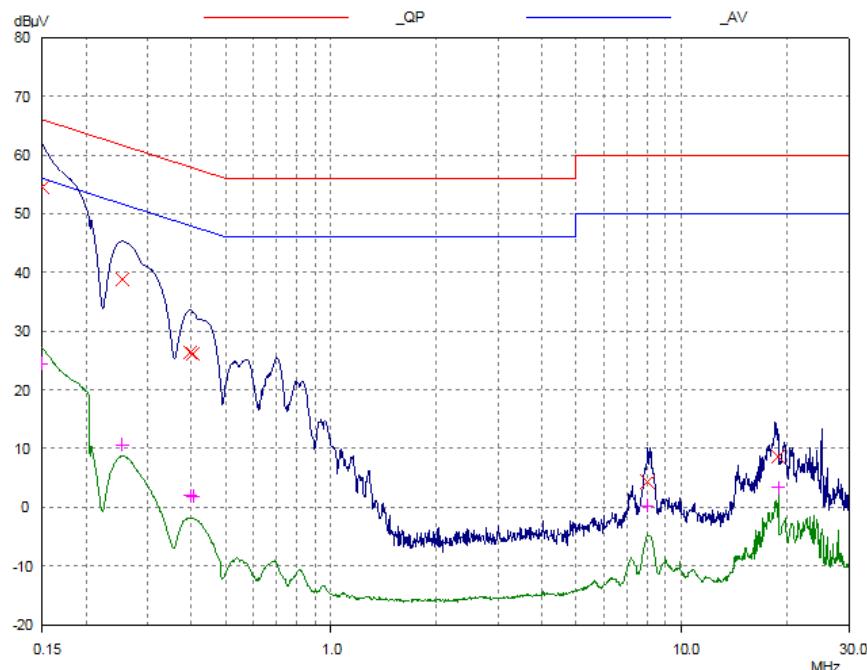
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GSM 850 idle mode.

L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
------------------	------------------	------------------	----------------

0.15	54.58	66.00	11.42
0.25406	38.87	61.62	22.75
0.39729	26.32	57.91	31.59
0.40369	26.14	57.78	31.64
7.99593	4.30	60.00	55.70
18.86329	8.61	60.00	51.39

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
------------------	------------------	------------------	----------------

0.15	24.41	56.00	31.59
0.25406	10.59	51.62	41.03
0.39729	1.95	47.91	45.96
0.40369	1.89	47.78	45.89
7.99593	0.20	50.00	49.80
18.86329	3.28	50.00	46.72

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SGS-CSTC Standards Technical Services (Shanghai)Co., Ltd.

588 West Jindu Road, Songjiang District, Shanghai, China

Report No.: SHEMO10030019301

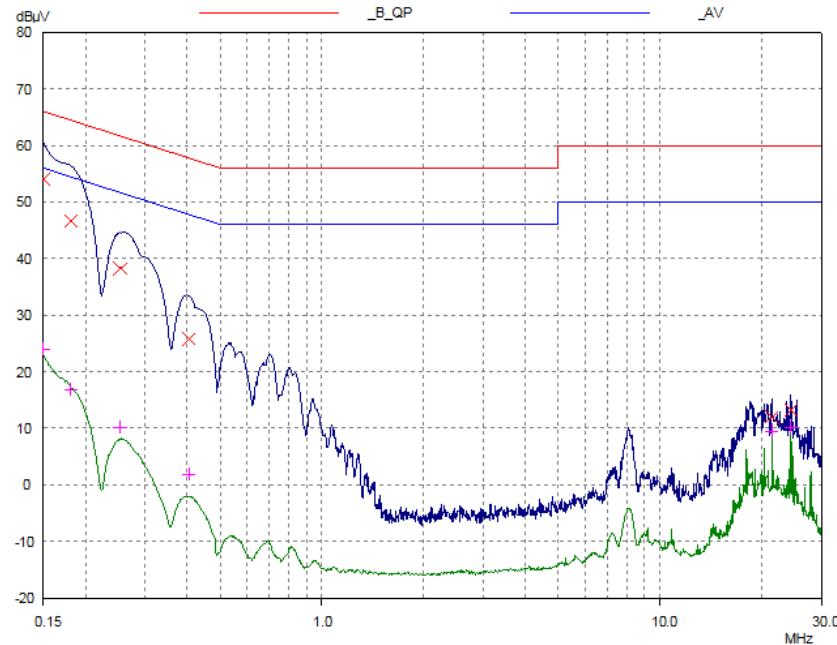
Page: 15 of 17

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N Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.15	54.03	66.00	11.97
0.18095	46.61	64.44	17.83
0.25406	38.26	61.62	23.36
0.40369	25.75	57.78	32.03
21.43365	12.05	60.00	47.95
24.35426	13.23	60.00	46.77

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.15	23.91	56.00	32.09
0.18095	16.92	54.44	37.52
0.25406	10.11	51.62	41.51
0.40369	1.77	47.78	46.01
21.43365	9.51	50.00	40.49
24.35426	10.16	50.00	39.84

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Report No.: SHEMO10030019301

Page: 16 of 17

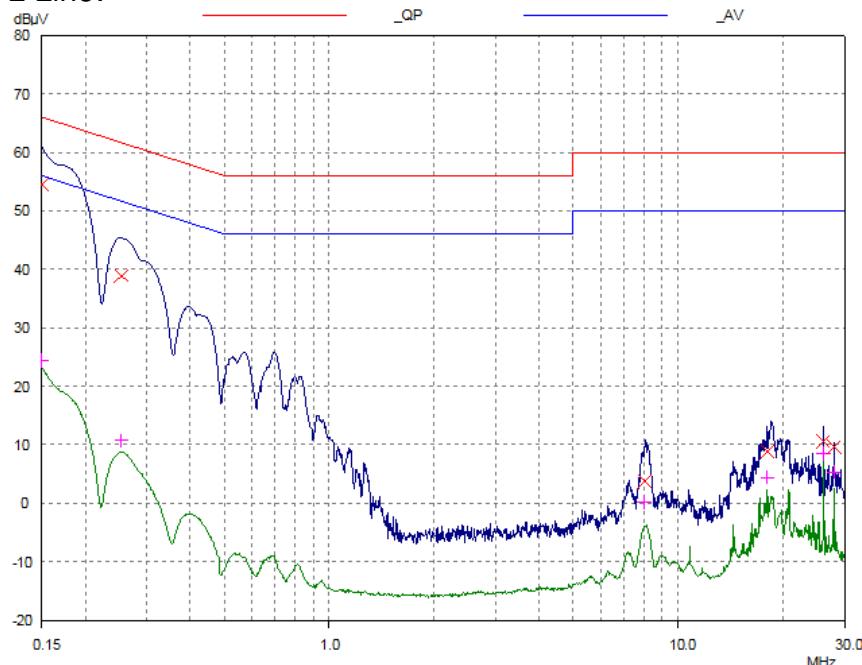
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GSM 1900 idle mode

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
------------------	------------------	------------------	----------------

0.15	54.48	66.00	11.52
0.25406	38.91	61.62	22.71
7.99593	3.76	60.00	56.24
17.98096	8.82	60.00	51.18
26.06442	10.54	60.00	49.46
28.00625	9.58	60.00	50.42

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
------------------	------------------	------------------	----------------

0.15	24.34	56.00	31.66
0.25406	10.67	51.62	40.95
7.99593	0.13	50.00	49.87
17.98096	4.42	50.00	45.58
26.06442	8.40	50.00	41.60
28.00625	5.22	50.00	44.78

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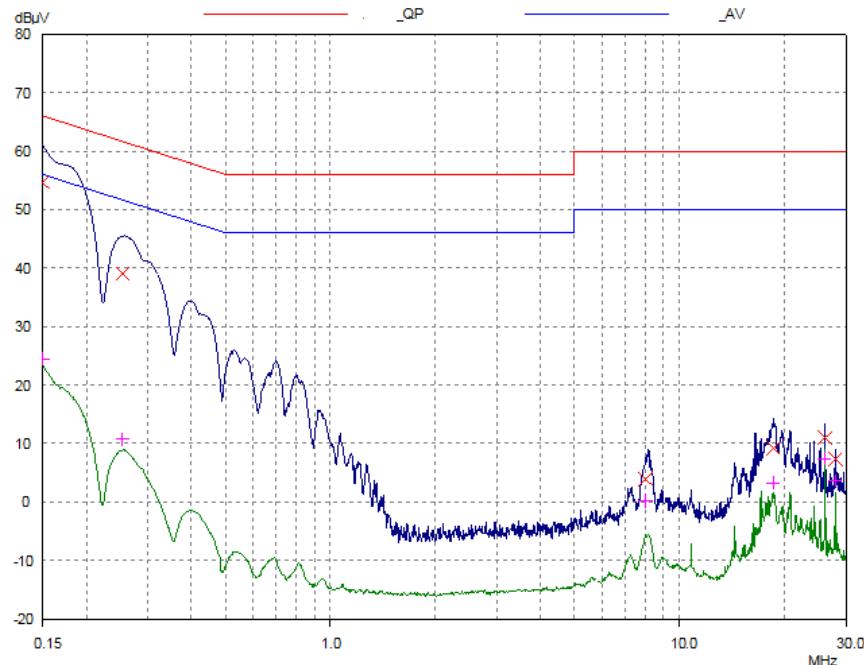
Page: 17 of 17

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Final Measurement Results

Frequency MHz	QP Level dB μ V	QP Limit dB μ V	QP Delta dB
0.15	54.64	66.00	11.36
0.25406	39.03	61.62	22.59
7.99593	3.94	60.00	56.06
18.56447	9.20	60.00	50.80
26.06442	10.94	60.00	49.06
28.00625	7.30	60.00	52.70

Frequency MHz	AV Level dB μ V	AV Limit dB μ V	AV Delta dB
0.15	24.48	56.00	31.52
0.25406	10.75	51.62	40.87
7.99593	0.13	50.00	49.87
18.56447	3.13	50.00	46.87
26.06442	7.34	50.00	42.66
28.00625	3.57	50.00	46.43

End of Report~

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