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

588 West Jindu Road,Songjiang District,Shanghai,China

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Tino.Pan@sgs.com

EMC TEST REPORT

Application No.: SHEMO09120140806
Applicant: Shanghai Simcom Ltd.
FCC ID: UDV-0912142009007
IC ID: 8460A-20100108007

Equipment Under Test (EUT):

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

Product Name: SIM900
Brand Name: SIMCOM
Model Name: SIM900
Standards: ICES-003 :2004
Date of Receipt: Jan 04, 2010
Date of Test: Jan 05, 2010
Date of Issue: Jan 11, 2010

Test Result :	**PASS***

* 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 EMC Engineer
SGS-CSTC(Shanghai) Co., Ltd.

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2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission 30MHz-1000MHz	ICES-003:2004	CISPR 22:2008	Class B	PASS
Conducted Emission 150KHz-30MHz	ICES-003:2004	CISPR 22:2008	Class B	N/A

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4 General Information

4.1 Client Information

Applicant:	Shanghai Simcom Ltd.
Address of Applicant:	SIM Technology Building, No.633 Jinzhong Road, Changning District , Shanghai, P.R.China(Postalcode 200335)
Manufacturer:	Shanghai Simcom Ltd.
Address of Manufacturer:	SIM Technology Building, No.633 Jinzhong Road, Changning District , Shanghai, P.R.China(Postalcode 200335)

4.2 General Description of E.U.T.

Product Name:	SIM900
Model No.:	SIMCOM
Brand Name:	SIM900
FCC ID:	UDV-0912142009007
IC ID:	8460A-20100108007
Support Frequency Band:	GSM 850/1900/900/1800
Testing frequency Band:	GSM 850/1900
Hardware Version:	V2.03
Software Version:	SIM900 R11.0

4.3 Details of E.U.T.

Power Supply:	4.0V DC
Power Cord:	N/A

4.4 Description of Support Units

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

4.5 Standards Applicable for Testing

The customer requested EMC tests.

The standards used were ICES-003:2004

Table 1 : Tests Carried Out Under ICES-003:2004:

Standard		Status
CISPR 22:2008	Radiated Emission	√
CISPR 22:2008	Conducted Emission	x

× Indicates that the test is not applicable
√ Indicates that the test is applicable

4.6 Test Location

Test(s) was(were) performed at SGS E&E EMC lab

SGS-CSTC EMC Laboratory, No.588 West Jindu Road,Songjiang District,Shanghai,China
Tel:+86 21 6191 5666 Fax:+86 21 6191 5655

4.7 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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4.8 Abnormalities from Standard Conditions

None.

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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	2009-06-04	2010-06-03
2	Antenna	SCHWARZBECK	VULB9168	9168-313	2009-06-04	2010-06-03
3	CONTROLLER	INNCO	CO200	474	/	/
4	Antenna	SCHWARZBECK	BBHA9120D	9120D-679	2009-06-04	2010-06-03
5	Antenna	SCHWARZBECK	BBHA9170	9170-373	2009-06-04	2010-06-03
6	UNIVERSAL RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMU 200	112012	2009-08-25	2010-08-24
7	DC Power	KIKUSUI	PMC35－3	NF100260	2009-1-16	2010-1-15

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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6 Emission Test Results

6.1 Radiated Emissions

Test Requirement:	ICES-003:2004
Test Method:	CISPR 22:2008
Test Date:	Jan 05, 2010
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Detector:	Peak for pre-scan (120kHz resolution bandwidth)
Result:	**PASS**

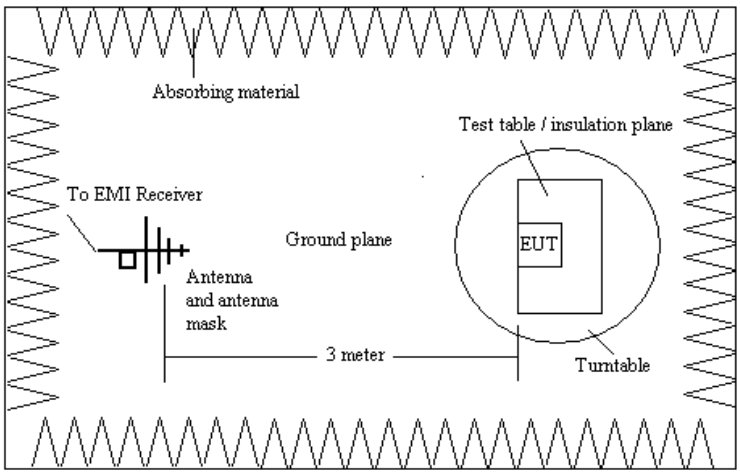
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 46 % RH Atmospheric Pressure: 1014 mbar

EUT Operation: Test in GSM 850/1900 on mode. with earphone

6.1.2 Test setup:



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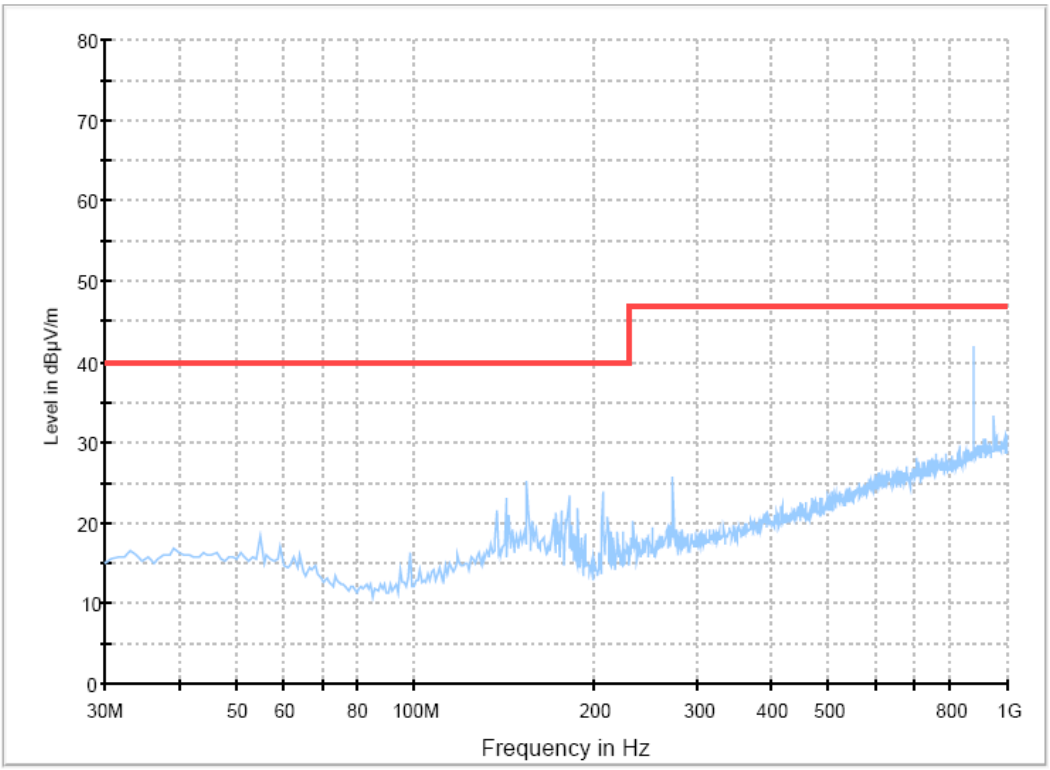
GSM 850
Horizontal:



Frequency (MHz)	Actual Lecel QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	40.0	*
160.00	*	40.0	*
200.00	*	40.0	*
800.00	*	47.0	*
1000.00	*	47.0	*

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

Note:836.4MHz is the base station operating frequency.

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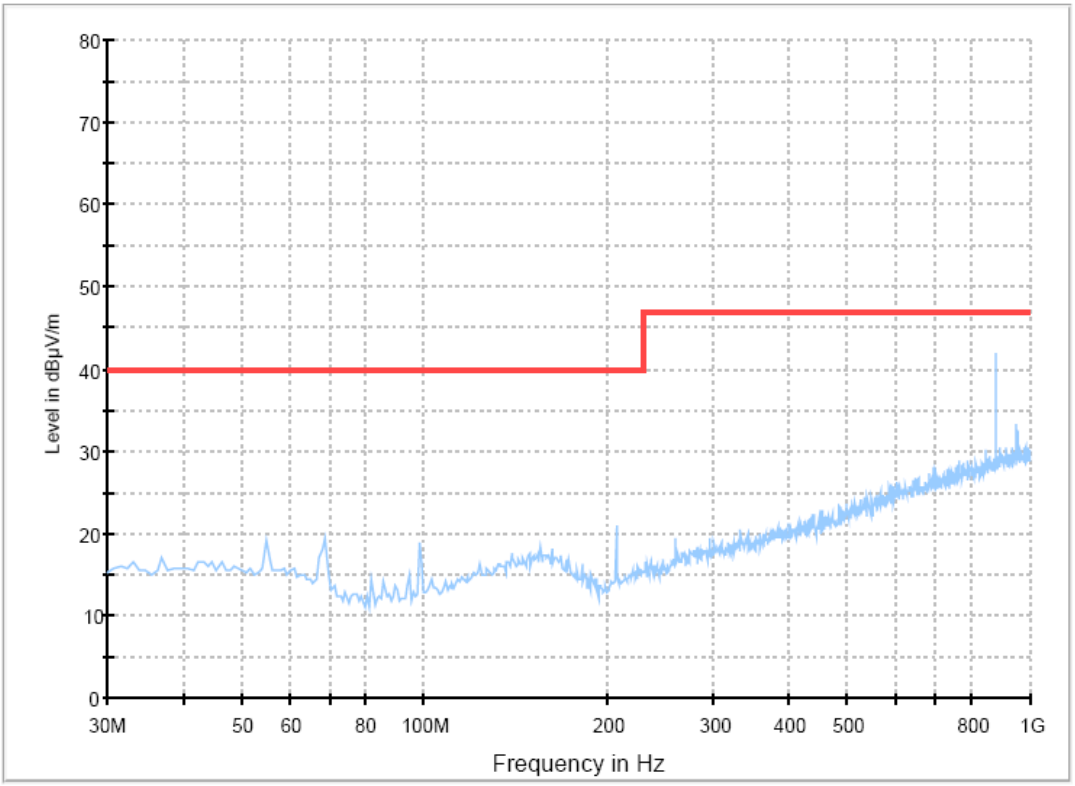
Vertical:



Frequency (MHz)	Actual Lecel QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	40.0	*
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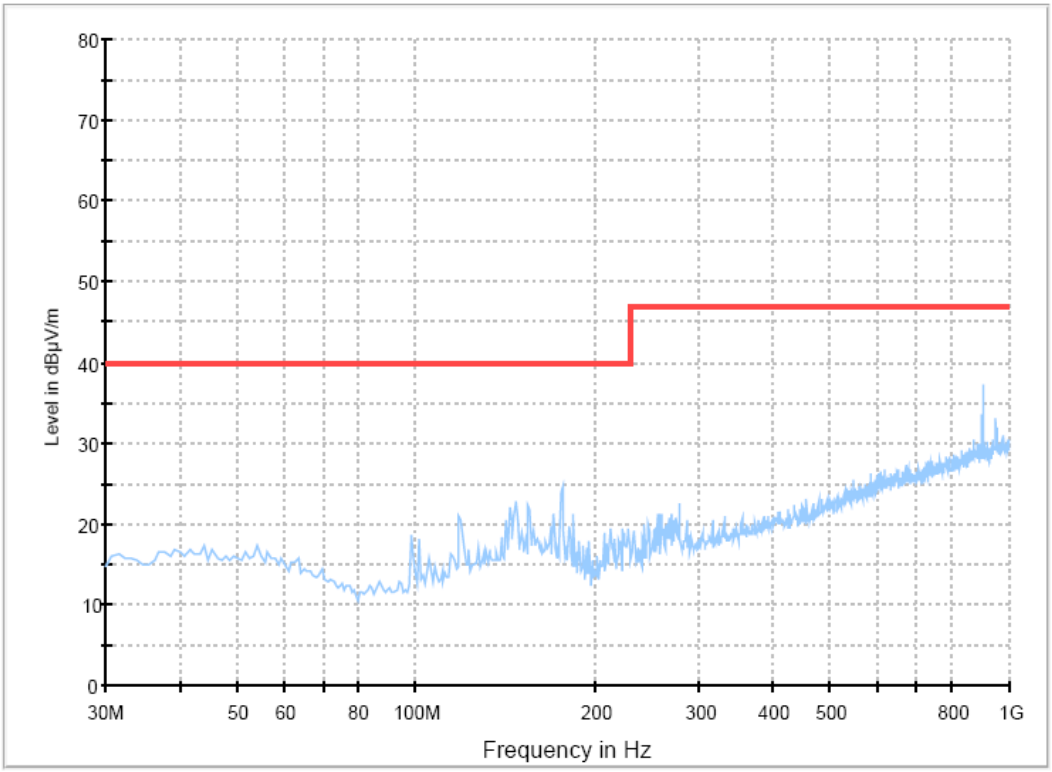
PCS 1900
Horizontal:



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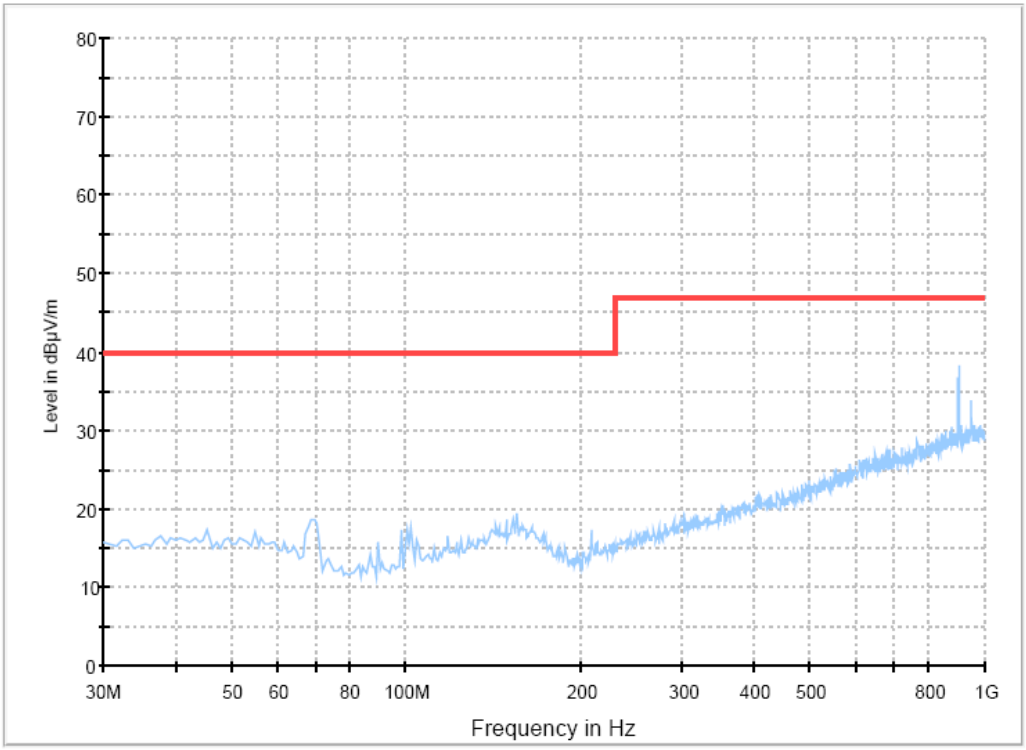
Vertical:



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1000.00	*	47.0	*

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

~End of Report~