

**SGS-CSTC Standards
Technical Services Co., Ltd.**

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Report No.: SHEMO09110127502

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EMC TEST REPORT

Application No.: SHEMO09110127502

Applicant: MOTOROLA INC.

FCC ID: IHDT56KT1

Equipment Under Test (EUT):

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

Product Name: G30

Model No.: F9000AAA,F9100AAA,F9200AAA,F9300AAA;F9400AAA;F9500AAA;
F9000ABA,F9100ABA,F9200ABA,F9300ABA;F9400ABA;F9500ABA

Brand Name: MOTOROLA

Serial No.: 074SAB1234,074SKY20JX, 074SKY20KF, 074SKY20FK, 074SKY20L1,
074SKY20L9, 074SKY20GG

Standards: FCC Part 15: 2008 Section B

Date of Receipt: Nov 13 , 2009

Date of Test: Nov 13 , 2009 to Jan 29,2010

Date of Issue: Jan 29,2010

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 Co., Ltd.

Jack Wu
E&E EMC Engineer
SGS-CSTC Co., Ltd

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2 Test Summary

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

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4 General Information

4.1 Client Information

Applicant: MOTOROLA INC.
Address of Applicant: 1301 E ALGONQUIN ROAD, SCHAUMBURG ILLINOIS
60196-1078 UNITED STATES
Manufacturer: MOTOROLA INC.
Address of Manufacturer: 1301 E ALGONQUIN ROAD, SCHAUMBURG ILLINOIS
60196-1078 UNITED STATES

4.2 General Description of E.U.T.

Product Name:: G30
Model No.: F9000AAA, F9100AAA, F9200AAA,
F9300AAA; F9400AAA; F9500AAA,
F9000ABA, F9100ABA, F9200ABA,
F9300ABA; F9400ABA; F9500ABA
Brand Name: MOTOROLA

4.3 Details of E.U.T.

Power Supply: 3.8 V DC
Power Cord: N/A

4.4 Description of Support Units

Name / Function	Model No.	Remark
The Adapter Board Motorola FCN6521A PCB #84883337V01_P2	N/A	N/A
LCD DISPLAYER	L170	IBM
MOUSE	M-UAE119	Lenovo
KEYBOARD	KU-0225	Lenovo
PC	8172	IBM
PRINTER	Q5956A	HP

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4.5 Standards Applicable for Testing

The customer requested EMC tests.

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	√
FCC Part 15 Subpart B	Conducted Emission	√

× 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

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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.

4.8 Abnormalities from Standard Conditions

None.

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5 Equipment Used during Test

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

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

General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	CLAMP METER	FLUKE	316	86080010	2009-04-27	2010-04-26
2	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2009-10-21	2010-10-20
3	Digital illuminance meter	TES electrical electronic Corp.	TES-1330A	050602219	2009-10-16	2010-10-15
4	DC POWER	KIKUSUI	PMC35-3	NF100260	2010-01-16	2011-01-15

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6 Emission Test Results

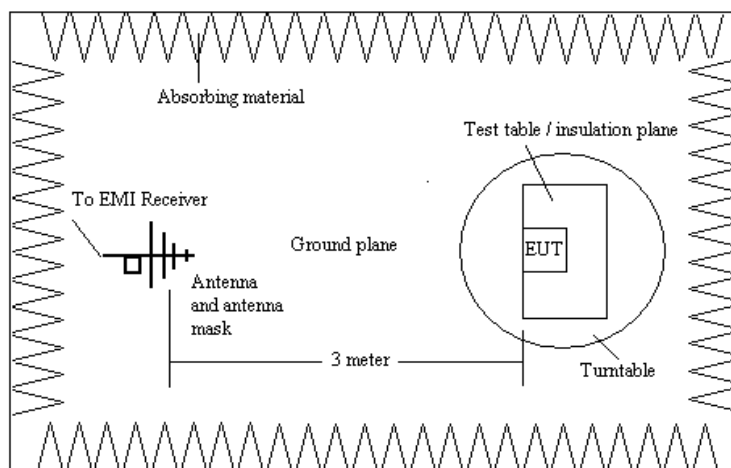
6.1 Radiated Emissions

Test Requirement: Part 15.109
Test Method: ANSI C63.4:2003
Test Date: Jan 29, 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: 52 % RH Atmospheric Pressure: 1014 mbar
EUT Operation: Test in on mode

6.1.2 Test setup:



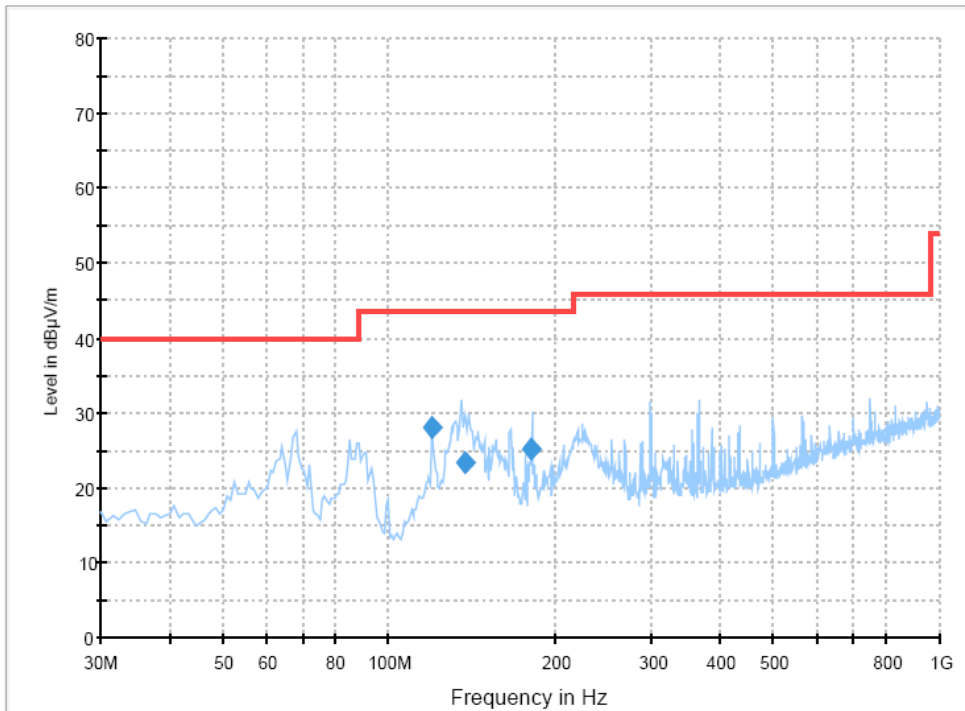
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F9500AAA
Horizontal:



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
120.15	28.2	43.5	15.3
137.30	23.2	43.5	20.3
180.76	25.1	43.5	18.4
1000.00	*	54.0	*

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

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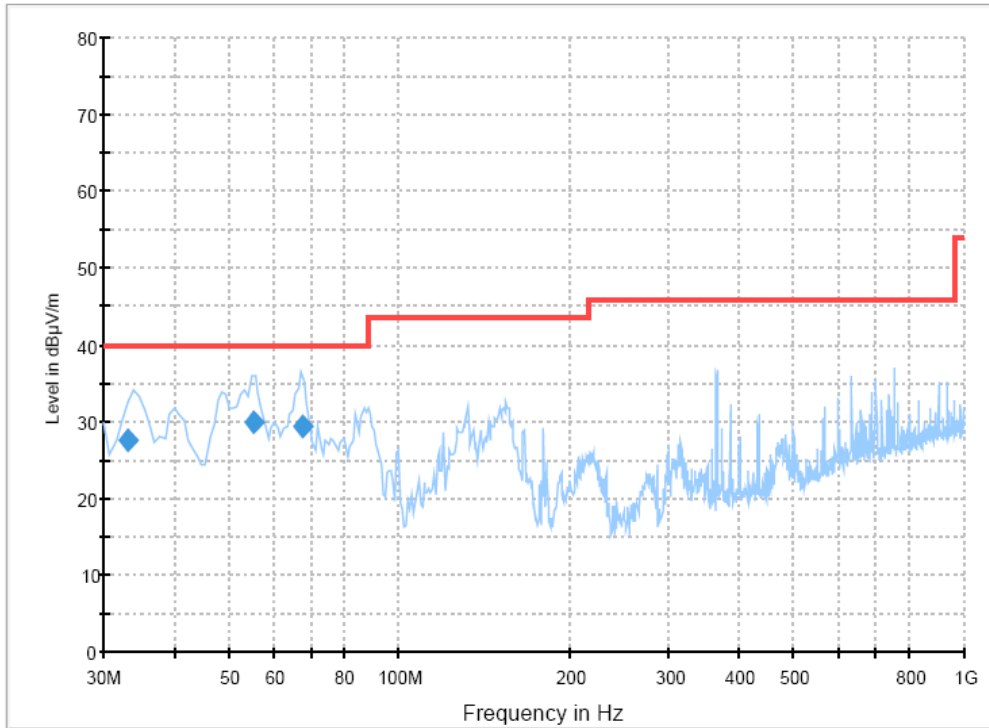
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Vertical:



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
33.27	27.5	40.0	12.5
55.46	30.0	43.5	13.5
67.42	29.4	43.5	14.1
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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6.2 Conducted Emissions

Test Requirement: CFR 47 part 15.107
Test Method: ANSI C63.4:2003
Test Date: Jan 29, 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: 54% RH Atmospheric Pressure: 1012 mbar

EUT Operation: Test in on mode

6.2.2 Test Result and Measurement Data

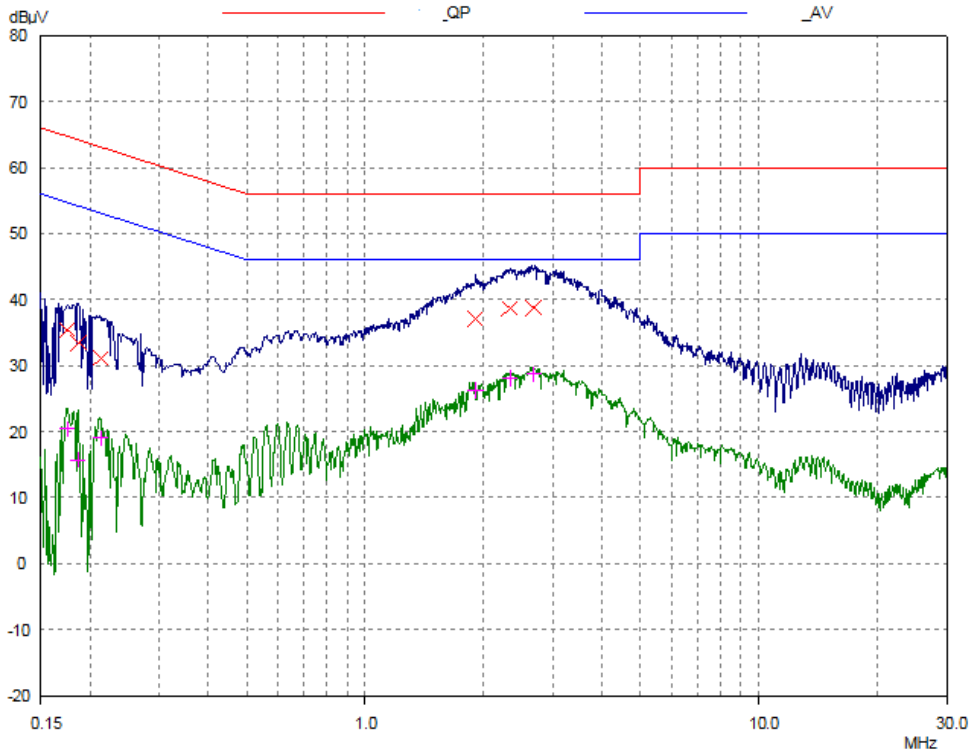
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L Line:



Final Measurement Results

Frequency MHz	QP Level dB μ V	QP Limit dB μ V	QP Delta dB
0.17457	35.42	64.74	29.32
0.18682	33.45	64.18	30.73
0.21313	31.13	63.08	31.95
1.9075	37.09	56.00	18.91
2.3289	38.68	56.00	17.32
2.67813	38.76	56.00	17.24

Frequency MHz	AV Level dB μ V	AV Limit dB μ V	AV Delta dB
0.17457	20.46	54.74	34.28
0.18682	15.64	54.18	38.54
0.21313	19.00	53.08	34.08
1.9075	26.19	46.00	19.81
2.3289	28.10	46.00	17.90
2.67813	28.67	46.00	17.33

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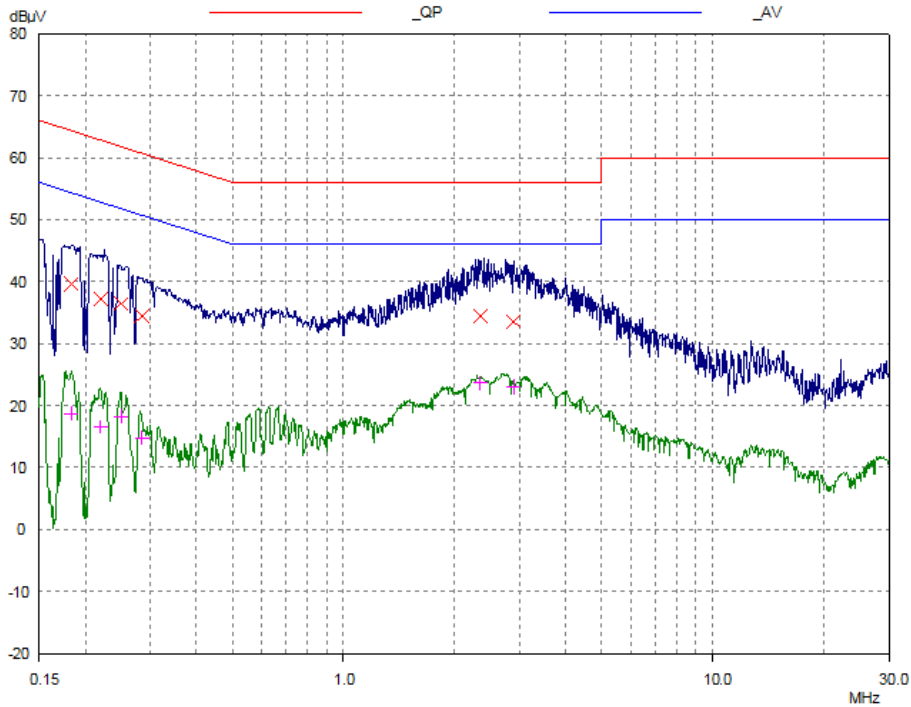
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.18313	39.64	64.34	24.70
0.22005	37.24	62.82	25.58
0.25002	36.46	61.76	25.30
0.2841	34.48	60.70	26.22
2.34757	34.49	56.00	21.51
2.88916	33.50	56.00	22.50

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.18313	18.61	54.34	35.73
0.22005	16.54	52.82	36.28
0.25002	18.29	51.76	33.47
0.2841	14.83	50.70	35.87
2.34757	23.66	46.00	22.34
2.88916	22.94	46.00	23.06

~End of Report~

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