

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

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FCC TEST REPORT

Application No.: SHEMO070300222IT
Applicant: TOBA FOUNTAINS L. L. C

Equipment Under Test (EUT):

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

EUT Name: Toba Magic Fountain Tranquility
Model No.: MF201-01
Serial No.: Not supplied by client
Standards: CFR 47 Part 15: 2005,
ANSI C63.4: 2003

Date of Receipt: March 20, 2007

Date of Test: March 20, 2007

Date of Issue: March 21, 2007

Test Result :	PASS
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Authorized Signature:



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

Liky Zhu
E&E Project Engineer
SGS-CSTC Co., Ltd

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

All test results in this report can be traceable to National or International Standards.

Member of the SGS Group (SGS SA)

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2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission 30MHz-1000MHz	CFR 47 Part 15	ANSI C63.4: 2003	Class B	PASS
Conducted Emission 150KHz-30MHz	CFR 47 Part 15	ANSI C63.4: 2003	Class B	PASS

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4 General Information

4.1 Client Information

Applicant: TOBA FOUNTAINS L. L. C
Address of Applicant: 16757 Maple Street Fountains Valley, CA 92708

4.2 General Description of E.U.T.

EUT Name: Toba Magic Fountain Tranquility
Model No.: MF201-01
Brand Name: Not supplied by client
Serial No.: Not supplied by client

4.3 Details of E.U.T.

Power Supply: 115V/220VAC

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 for Toba Magic Fountain Tranquility

The standards used was CFR 47 part 15: 2005:

Table 1 : Tests Carried Out Under CFR 47 Part 15: 2005 :

Standard		Status
FCC Part 15 Subpart B: 2005	Radiated Emission	√
FCC Part 15 Subpart B: 2005	Conducted Emission	√

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

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4.6 Test Location

Radiated Emission was performed at:

SIMT EMC Laboratory, 1/F, Building No.1, Agriculture Machinery Materials Company
No.716 Yi shan Road, Shanghai, P.R.China.
Tel: +86 21 64701390 Fax: +86 21 64514252

Conducted Emission was performed at:

SGS-CSTC EMC Laboratory, No.889 Yishan Road, Shanghai, P.R.China
Tel:+86 21 61402666 Fax: +86 21 54500954

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Monitoring of EUT for All Immunity Test

N/A

4.9 Test Confident level

Test Confident level is recognized, certified, or accredited by the following organizations:

NVLAP – Lab Code: 200632-0

SIMT EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST).
NVLAP Code: 200632-0. Effective dates: 2007-01-01 through 2007-12-31.

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SIMT have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: 1153.
Date of Registration: May 19, 2004. Valid until May 18, 2007

CNAL – LAB Code: L0134

SIMT EMC Laboratory has been assessed and in compliance with CNAL/AC01:2005 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements for the Competence of Testing Laboratories.)

FCC – Registration No.: 142171

SIMT EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 142171.
Effective dates: November 30, 2005 through November 30, 2008. With the above and NVLAP, SIMT is an authorized test laboratory for the DoC process.

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5 Equipments Used during Test

Radiated Emission Test in Chamber CFR 47 part 15: 2005

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	HORN ANTENNA	R&S	HF 906	100023	2006-06-17	2007-06-16
2	BROADBAND ANTENNA	R&S	HL 562	100019	2006-06-17	2007-06-16
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2007-03-06	2008-03-05

Conducted Emission CFR 47 part 15: 2005

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMI TEST RECEIVER	R&S	ESCS 30	100086	2006-06-29	2007-06-28
2	LINE IMPEDANCE STABILIZATION NETWORK	ETS	3816/2	00034161	2006-06-29	2007-06-28

General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Barometer	Chang chun qi xiang	DYM3	0124	2005-06-06	2007-06-05
2	DMM	UNI-T	UT 222	45402866	2007-01-25	2008-01-24
3	Temperature, Humidity	Zhi cheng	ZC1-2	/	2006-07-06	2007-07-05
4	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY — 2003P	/	2006-09-19	2007-09-18
5	Temperature, Humidity	ZHICHEN	ZC1-2	01050033	2006.08.15	2007.08.14
6	True RMS Multimeter	FLUKE	175	84320600	2006-09-29	2007-09-28

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6 Emission Test Results

6.1 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	CFR 47 Part 15
Test Method:	ANSI C63.4
Test Date:	March 20, 2007
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Class:	Class B
Detector:	Peak for pre-scan (120kHz resolution bandwidth)

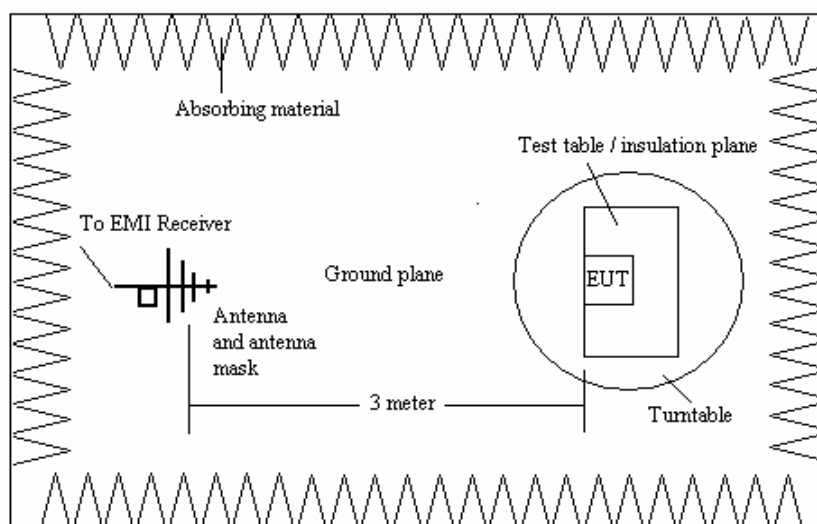
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0°C Humidity: 55 % RH Atmospheric Pressure: 1024 mbar

EUT Operation: The EUT was set to achieve maximum emission.

6.1.2 Test setup:



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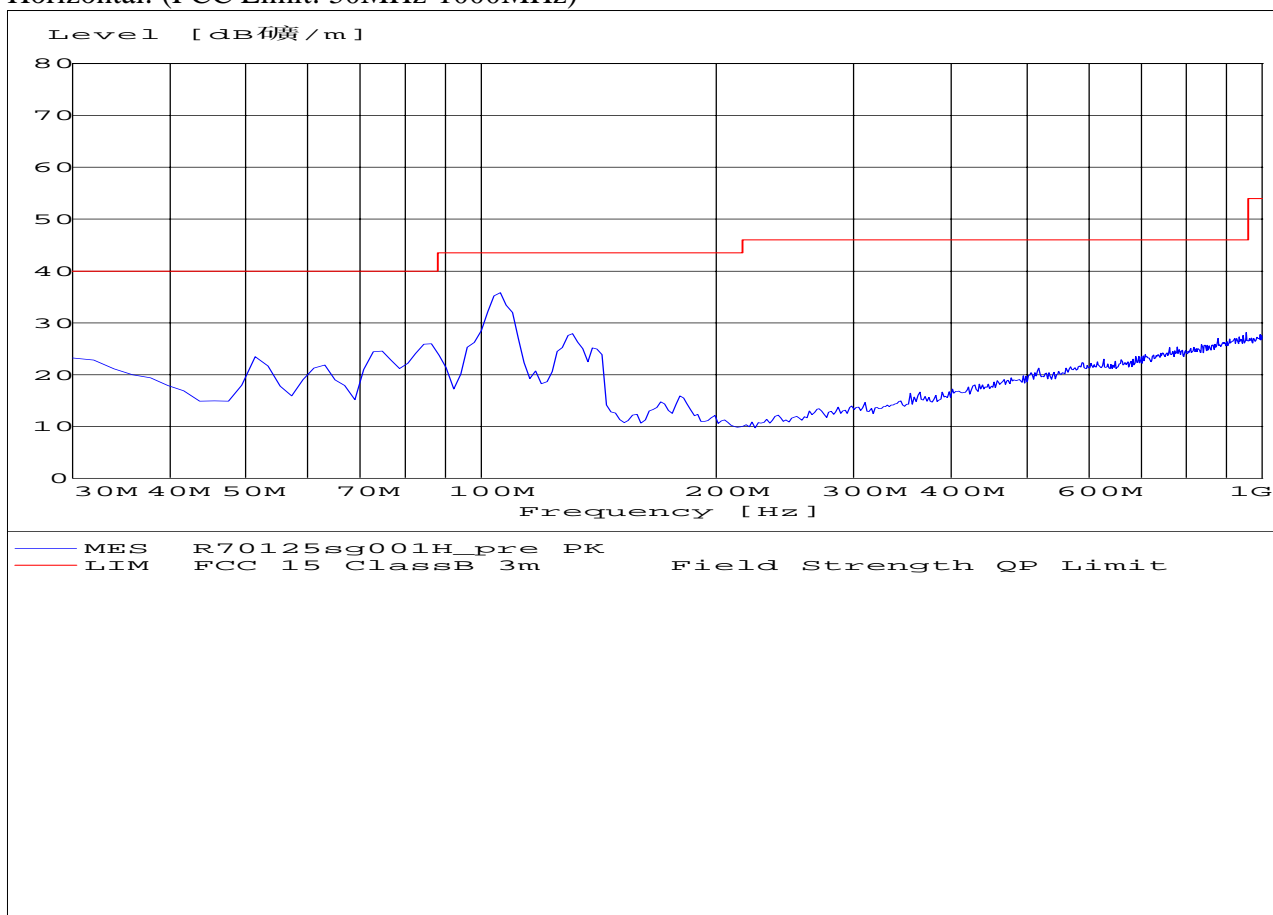
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6.1.3 Test Result:

An initial pre-scan was performed in peak detection mode. Quasi-Peak was performed at the frequencies with maximized peak emission were detected.

Horizontal: (FCC Limit: 30MHz-1000MHz)



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Horizontal	*	40	*		
45	Horizontal	*	40	*		
88	Horizontal	*	43.5	*		
150	Horizontal	*	43.5	*		
960	Horizontal	*	54	*		
1000	Horizontal	*	54	*		

1. “*” means the emission level is 6 dB below the relevant limit.

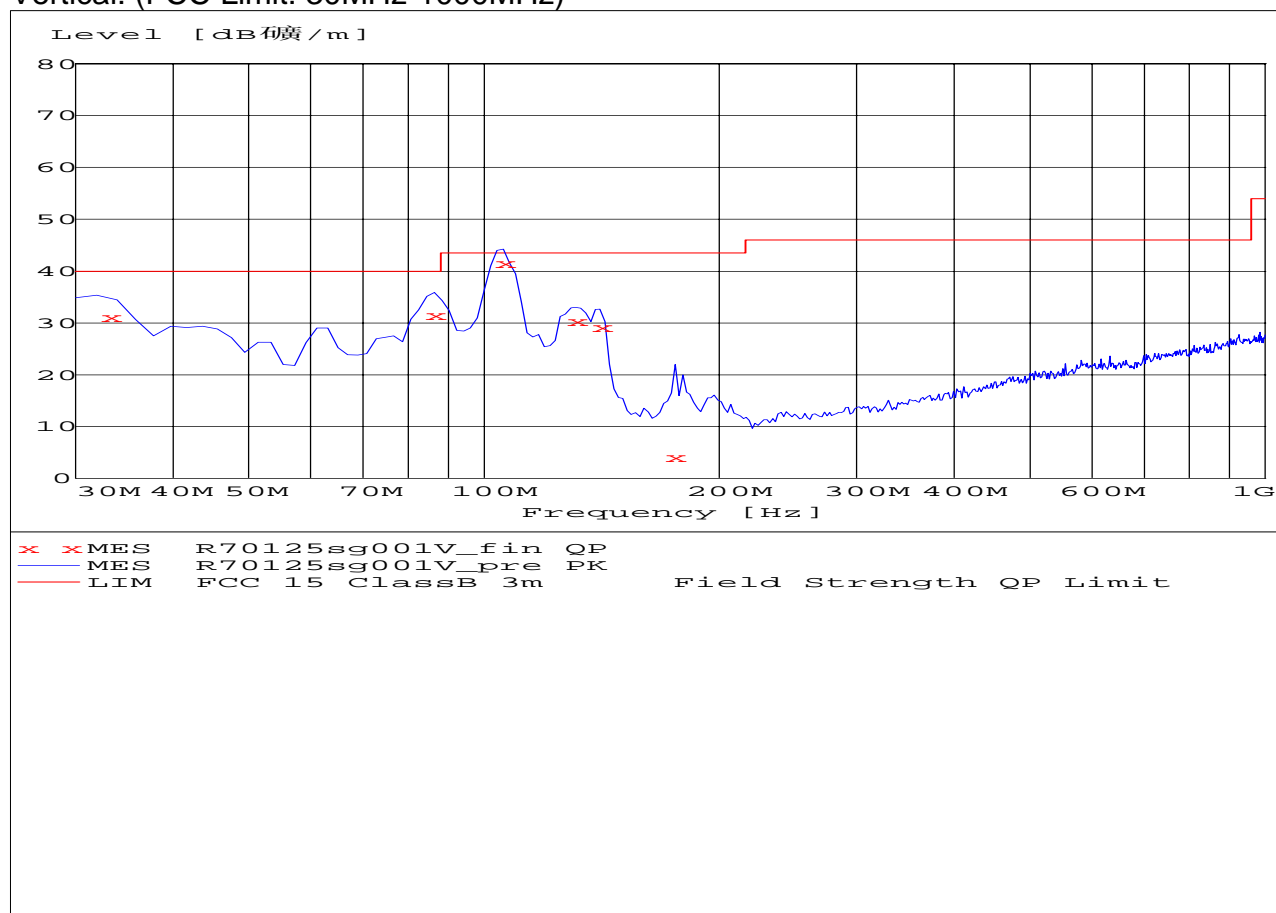
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Vertical: (FCC Limit: 30MHz-1000MHz)



MEASUREMENT RESULT: "R70125sg001V_fin QP"

3/20/2007 13:51

Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
33.148297	31.17	120.0	280.00	VERTICAL	40.00	8.83
86.230461	31.37	110.0	280.00	VERTICAL	40.00	8.63
105.811623	41.57	100.0	250.00	VERTICAL	43.50	1.93
130.889780	30.22	120.0	270.00	VERTICAL	43.50	13.28
140.831663	29.08	120.0	10.00	VERTICAL	43.50	14.42
174.929860	4.01	390.0	0.00	VERTICAL	43.50	39.49

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6.2 Conducted Emissions on AC

Test Requirement:	CFR 47 part 15
Test Method:	ANSI C63.4
Test Date:	March 20, 2007
Frequency Range:	150kHz to 30MHz
Class:	N/A
Limit:	66 dB μ V - 56 dB μ V between 150kHz & 500kHz Quasi-peak 56 dB μ V between 0.5MHz & 5MHz Quasi-peak 60 dB μ V between 5MHz & 30MHz Quasi-peak

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0°C Humidity: 58% RH Atmospheric Pressure: 1026 mbar

EUT Operation: The EUT was set to achieve maximum emission.

6.2.2 Test Result and Partial Measurement Data

Pass

An initial pre-scan was performed in the Shielding room using the receiver in peak detection mode. The EUT was measured for 2 orthogonal polarities and peak emissions from the EUT were detected within 6dB of the limit line.

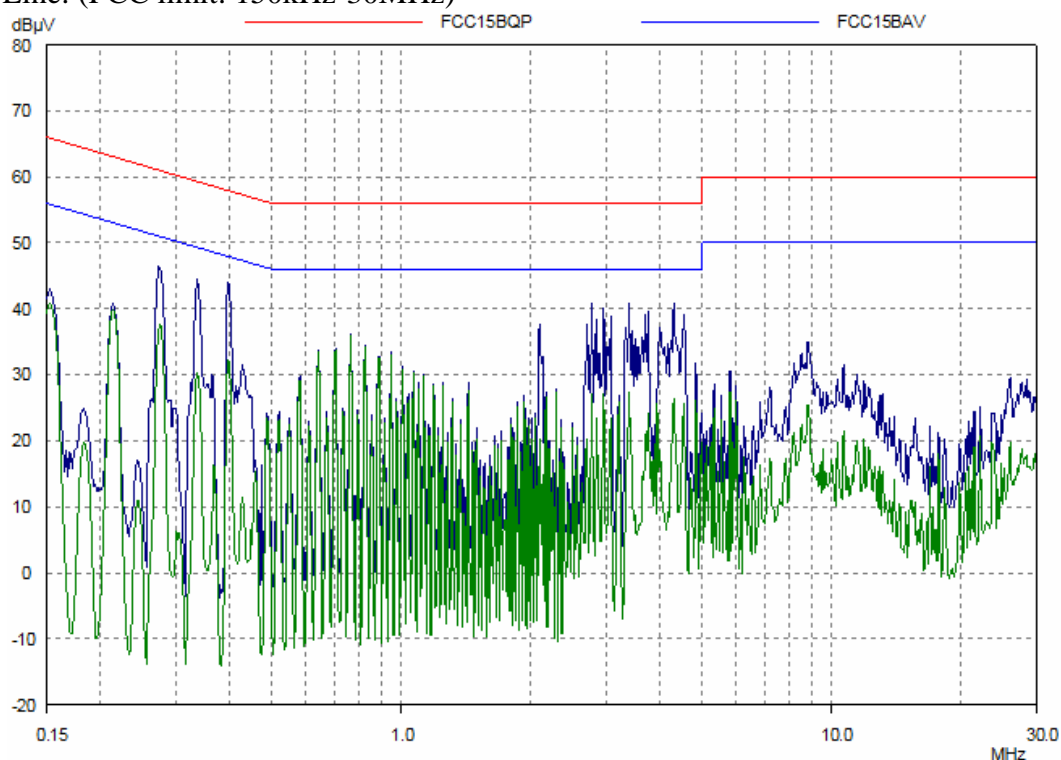
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The following quasi-peak measurements were performed on the EUT on March 20, 2007
L Line: (FCC limit: 150kHz-30MHz)



Frequency	Receiver QP Level	Limit	Margin	Receiver AV Level	Limit	Margin
(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)
0.15	*	66.00	*	*	59.00	*
0.50	*	56.00	*	*	46.00	*
1.40	*	56.00	*	*	46.00	*
2.00	*	56.00	*	*	46.00	*
3.50	*	56.00	*	*	46.00	*
10.00	*	60.00	*	*	50.00	*
22.00	*	60.00	*	*	50.00	*
30.00	*	60.00	*	*	50.00	*

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

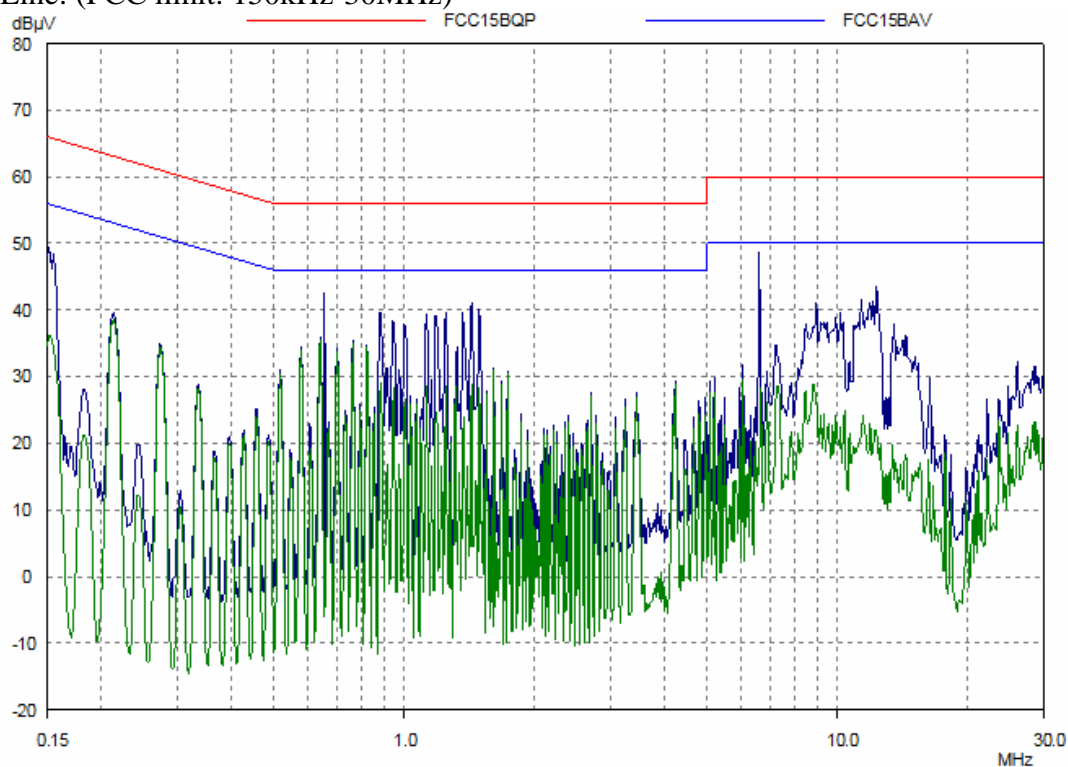
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N Line: (FCC limit: 150kHz-30MHz)



Frequency	Receiver QP Level	Limit	Margin	Receiver AV Level	Limit	Margin
(MHz)	(dBμV)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)
0.15	*	66.00	*	*	59.00	*
0.50	*	56.00	*	*	46.00	*
1.40	*	56.00	*	*	46.00	*
2.00	*	56.00	*	*	46.00	*
3.50	*	56.00	*	*	46.00	*
10.00	*	60.00	*	*	50.00	*
22.00	*	60.00	*	*	50.00	*
30.00	*	60.00	*	*	50.00	*

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

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7 Photographs

7.1 Radiated Emission Test Setup



7.2 Conducted Emission Test Setup



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7.3 EUT Constructional Details



7.4 EUT Constructional Details



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7.5 EUT Constructional Details



The End of Report