

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

588 West Jindu Road, Songjiang District, Shanghai, China

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Report No.: SHEMO10040050001

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## ***EMC TEST REPORT***

**Application No.:** SHEMO10040050001

**Applicant:** Lenovo Mobile Communication Technology LTD.

**Equipment Under Test (EUT):**

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

**Product Name:** GSM Mobile

**Brand Name:** LENOVO

**Model Name:** S62

**Standards:** FCC PART 15:2008 Section B

**Date of Receipt:** April 30,2010

**Date of Test:** May 4,2010 to May 14,2010

**Date of Issue:** May 17,2010

<b>Test Result :</b>	<b>PASS*</b>
----------------------	--------------

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



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



San Yuan  
E&E Project 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	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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## 4 General Information

### 4.1 Client Information

Applicant: Lenovo Mobile Communication Technology LTD.  
Address of Applicant: No.999,Qishan North 2nd Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone,Xiamen,P.R.China P.C:361006  
Manufacturer: Lenovo Mobile Communication Technology LTD.  
Address of Manufacturer: No.999,Qishan North 2nd Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone,Xiamen,P.R.China P.C:361006

### 4.2 General Description of E.U.T.

Product Name: S62  
Brand Name: LENOVO  
Support Frequency Band: GSM 850/1900  
Charger: Model:C-P13  
Input:AC110-240V,50/60Hz,0.15A Output:DC 5V,500mA  
Hardware Version: H301  
Software Version: S62\_VE\_S100\_100119

### 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	√
FCC Part 15 Subpart B Conducted Emission	√

× Indicates that the test is not applicable

√ Indicates that the test is applicable

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#### **4.5 Test Location**

All the tests were performance at:

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#### **4.6 Test Confident level**

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.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3172 and C-3514 respectively. Date of Registration: 2009-11-30. Date of Expiry: 2012-03-17.

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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

### 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
4	UNIVERSAL RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMU 200	112012	2009-08-25	2010-08-24

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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	Digital Multimeter	FLUKE	17B	10560713	2009-09-16	2010-09-15
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: CFR 47 Part 15.109  
Test Method: ANSI C63.4:2003  
Test Date: May 6, 2010  
Frequency Range: 30MHz to 1GHz  
Measurement Distance: 3m  
Detector: Peak for pre-scan (120kHz resolution bandwidth)  
Result: **PASS**

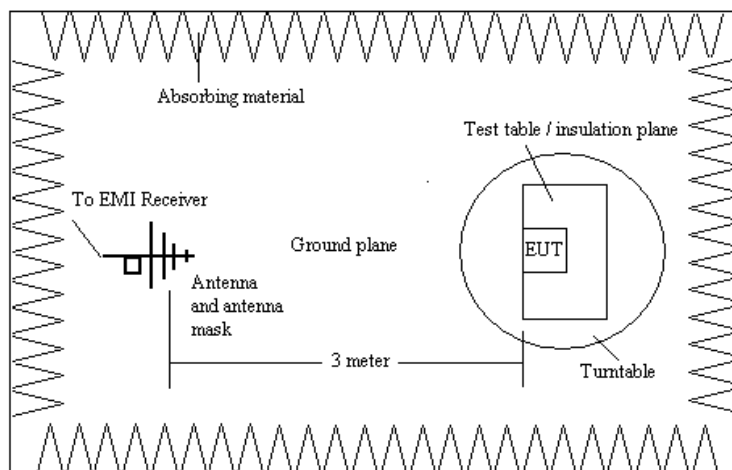
#### 6.1.1 E.U.T. Operation

Operating Environment:

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

EUT Operation: Test in GSM 850/1900 idle ,FM&BT mode.

#### 6.1.2 Test setup:





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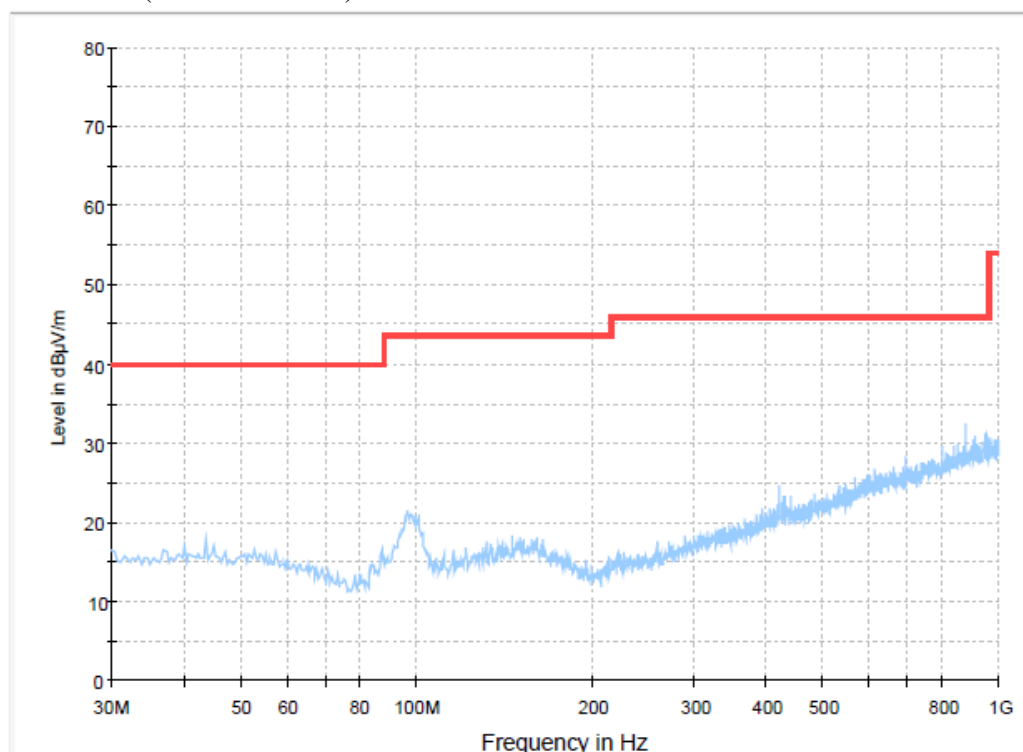
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**6.1.3 Measurement Data:**  
Test in GSM 850 idle mode.  
Horizontal(30MHz -1GHz)



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/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	*

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

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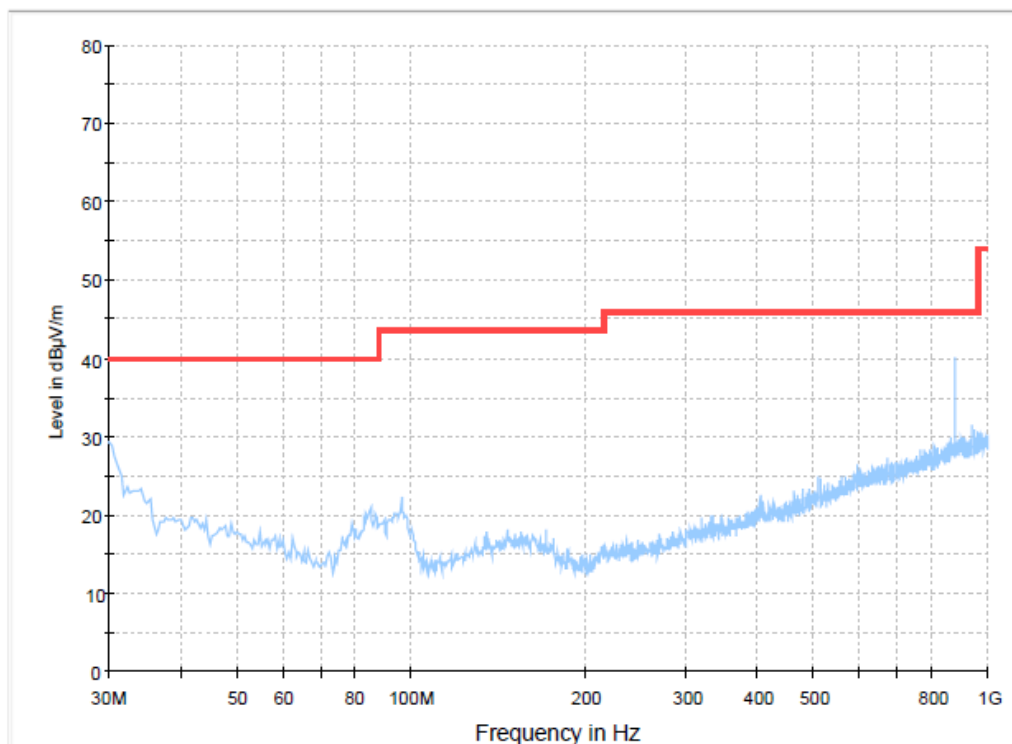
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**Vertical (30MHz -1GHz):**



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/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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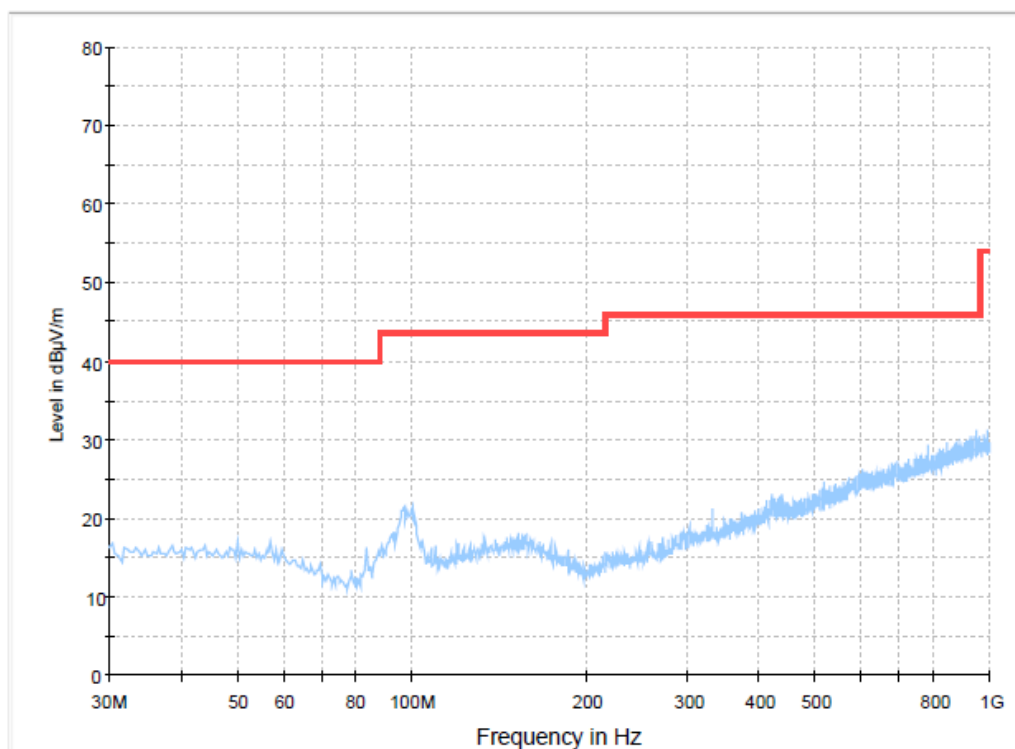
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Test in GSM 1900 idle mode.  
Horizontal(30MHz -1GHz)



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/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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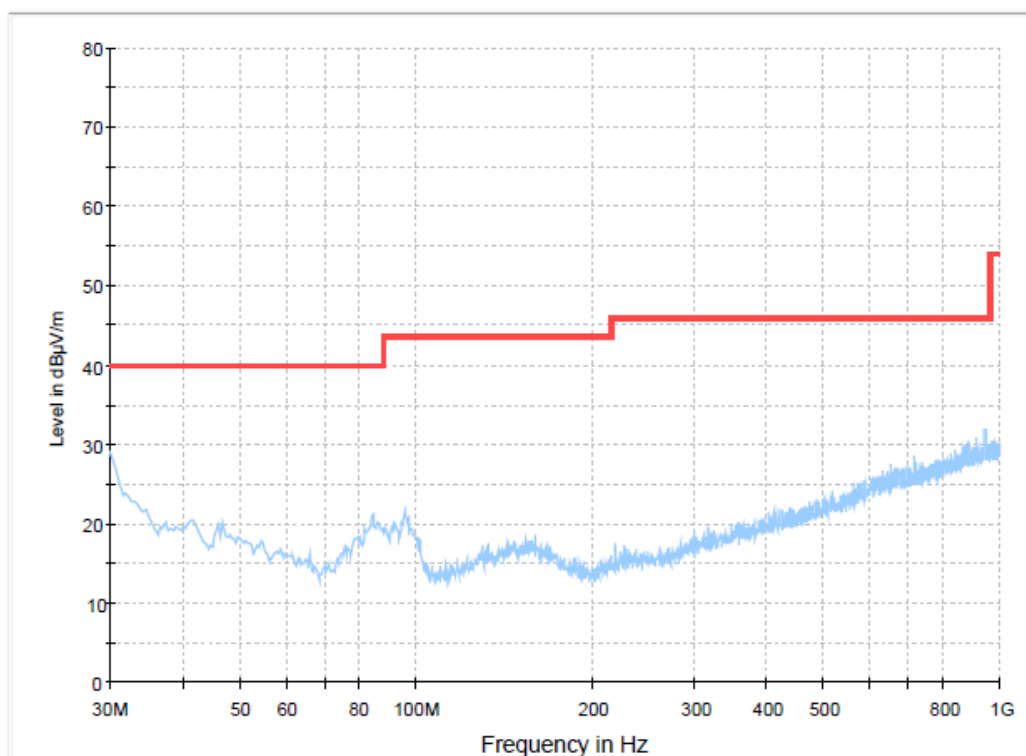
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**Vertical (30MHz -1GHz):**



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/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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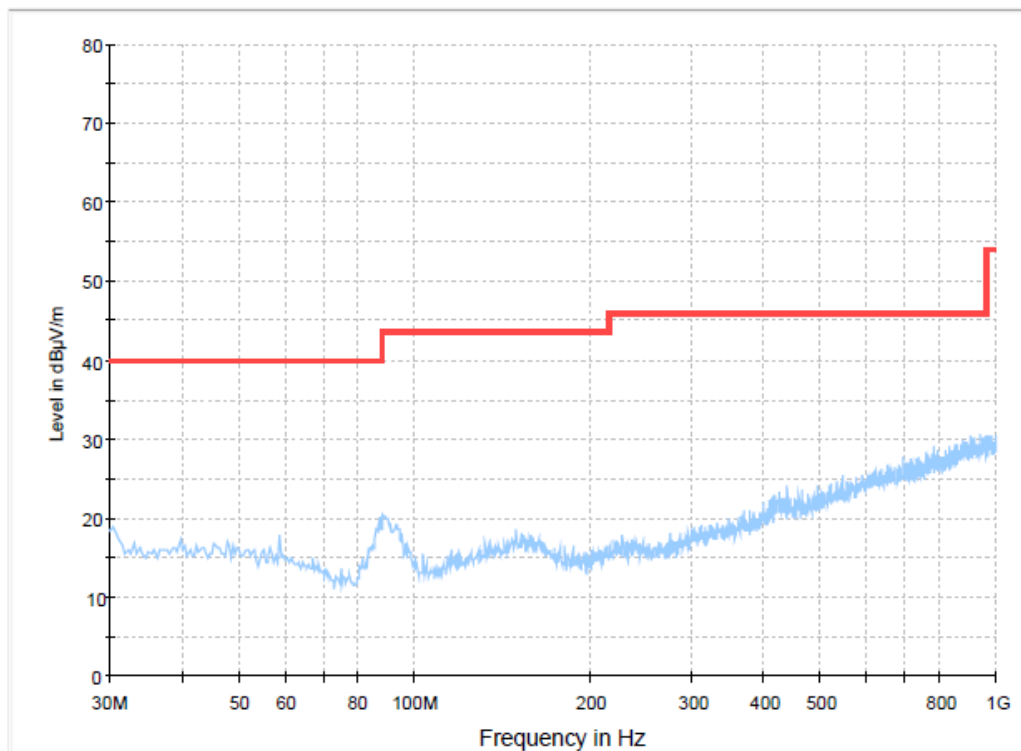
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Test in BT function mode.  
Horizontal(30MHz -1GHz)



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/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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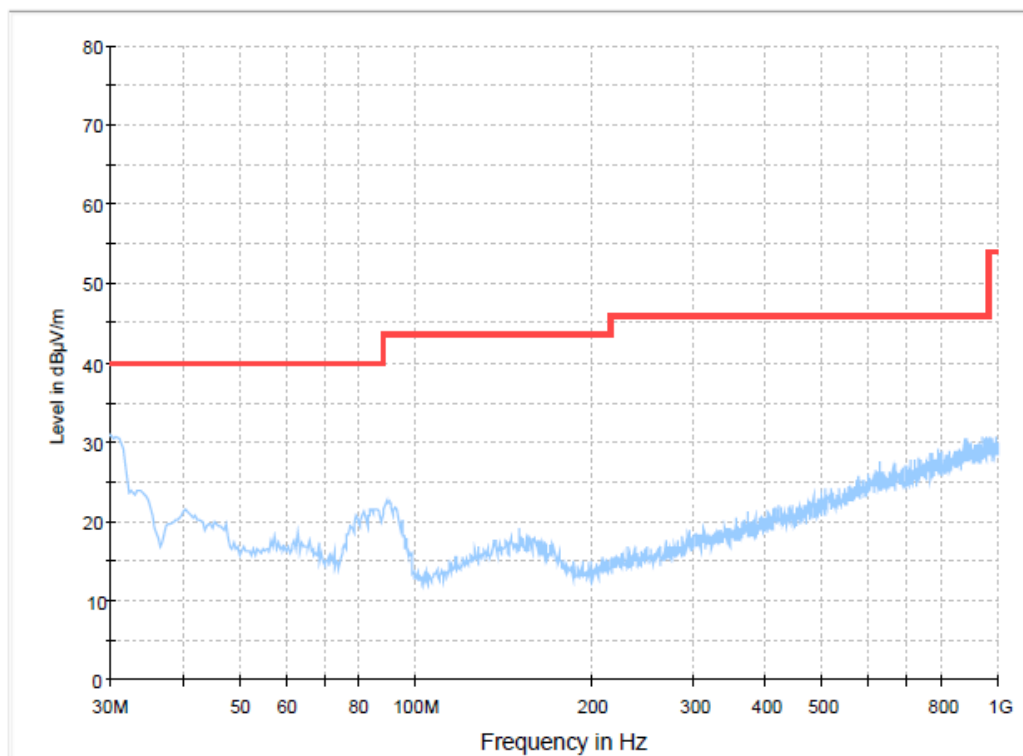
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**Vertical(30MHz -1GHz)**



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/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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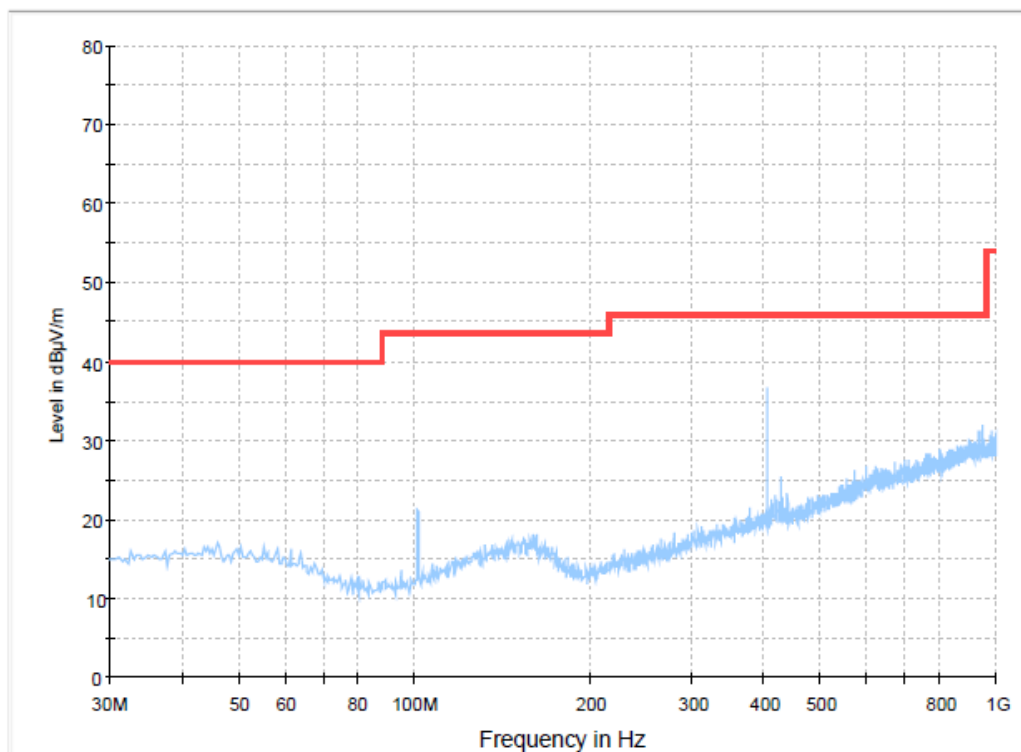
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Test in FM function mode.  
Horizontal(30MHz -1GHz)



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/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	*

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

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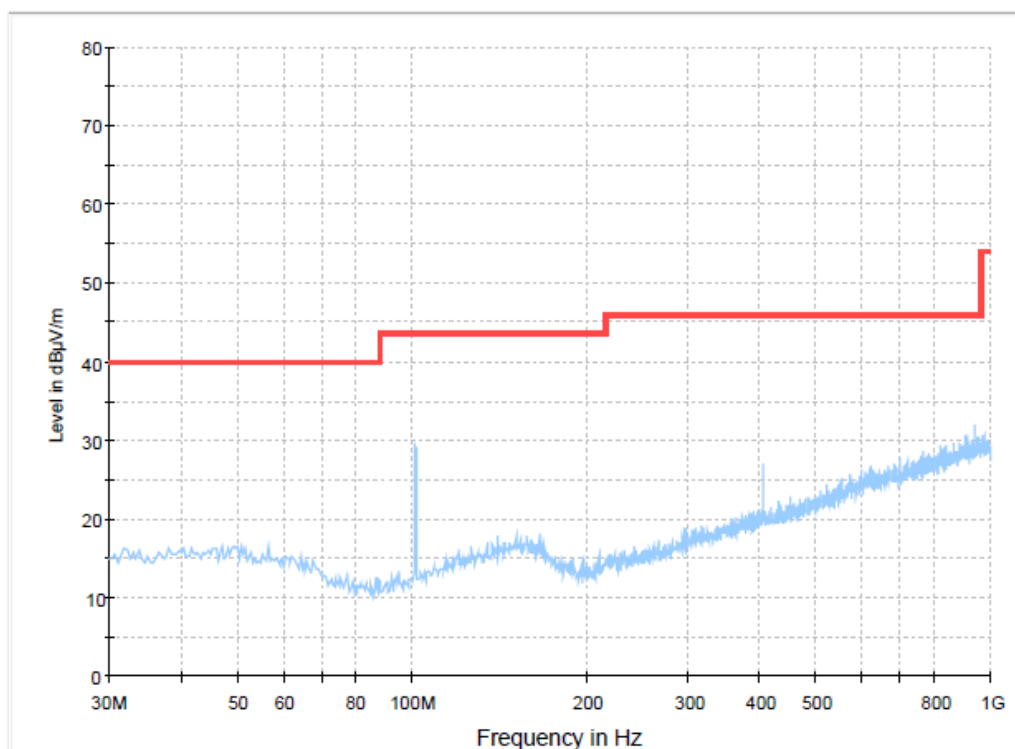
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**Vertical(30MHz -1GHz)**



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/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	*

“\*” 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: May 6, 2010

Frequency Range: 150kHz to 30MHz

Limit:

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 <sup>*</sup>	56 to 46 <sup>*</sup>
0.5-5	56	46
5-30	60	50

<sup>\*</sup> 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 & BT mode.

### 6.2.2 Test Result and Measurement Data

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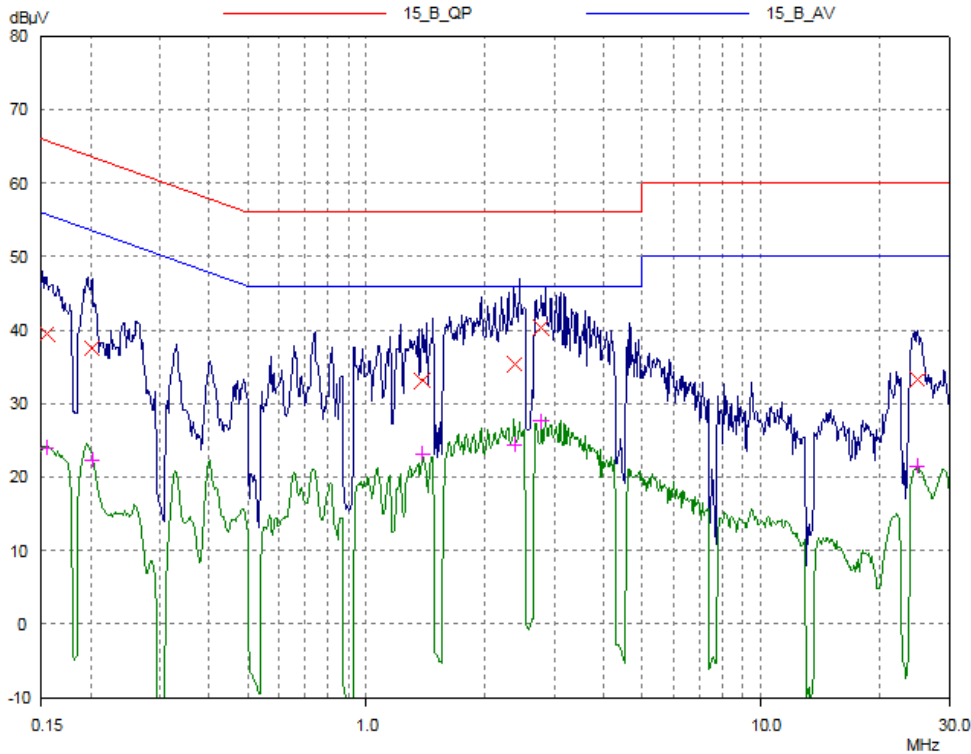
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GSM 850 idle mode.

L Line:



**Final Measurement Results**

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15485	39.46	65.74	26.28
0.20143	37.60	63.55	25.95
1.38541	33.10	56.00	22.90
2.38174	35.34	56.00	20.66
2.77106	40.25	56.00	15.75
24.98922	33.24	60.00	26.76

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15485	23.93	55.74	31.81
0.20143	22.30	53.55	31.25
1.38541	23.17	46.00	22.83
2.38174	24.33	46.00	21.67
2.77106	27.57	46.00	18.43
24.98922	21.49	50.00	28.51

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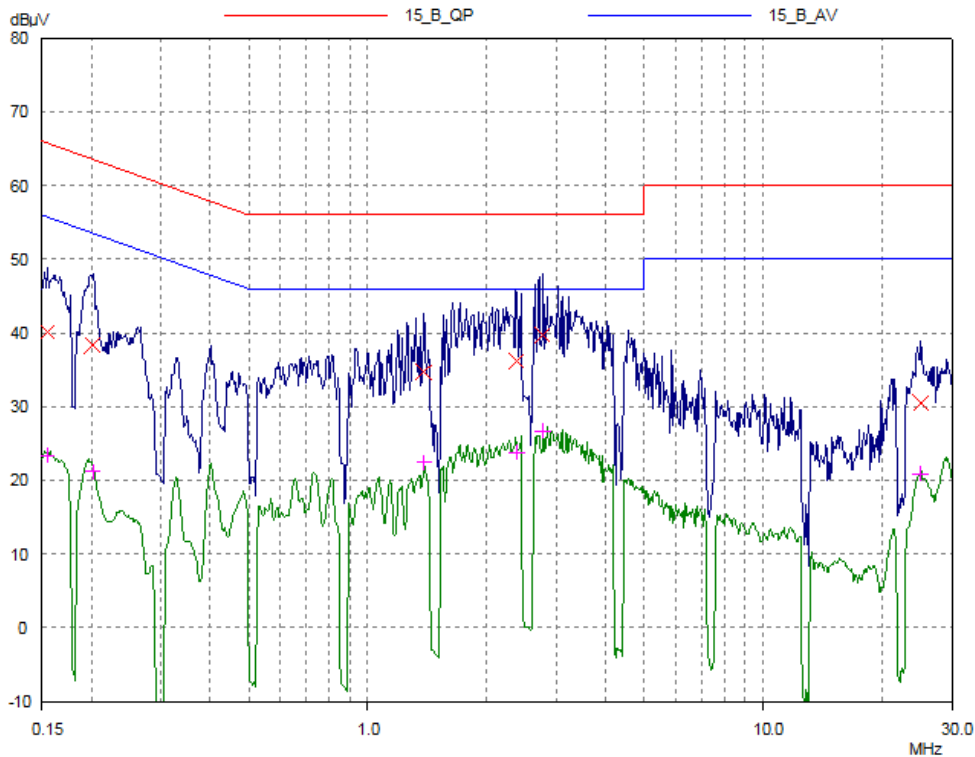
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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15485	40.13	65.74	25.61
0.20143	38.27	63.55	25.28
1.38541	34.71	56.00	21.29
2.38174	36.18	56.00	19.82
2.77106	39.72	56.00	16.28
24.98922	30.50	60.00	29.50

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15485	23.32	55.74	32.42
0.20143	21.18	53.55	32.37
1.38541	22.42	46.00	23.58
2.38174	23.68	46.00	22.32
2.77106	26.60	46.00	19.40
24.98922	20.84	50.00	29.16

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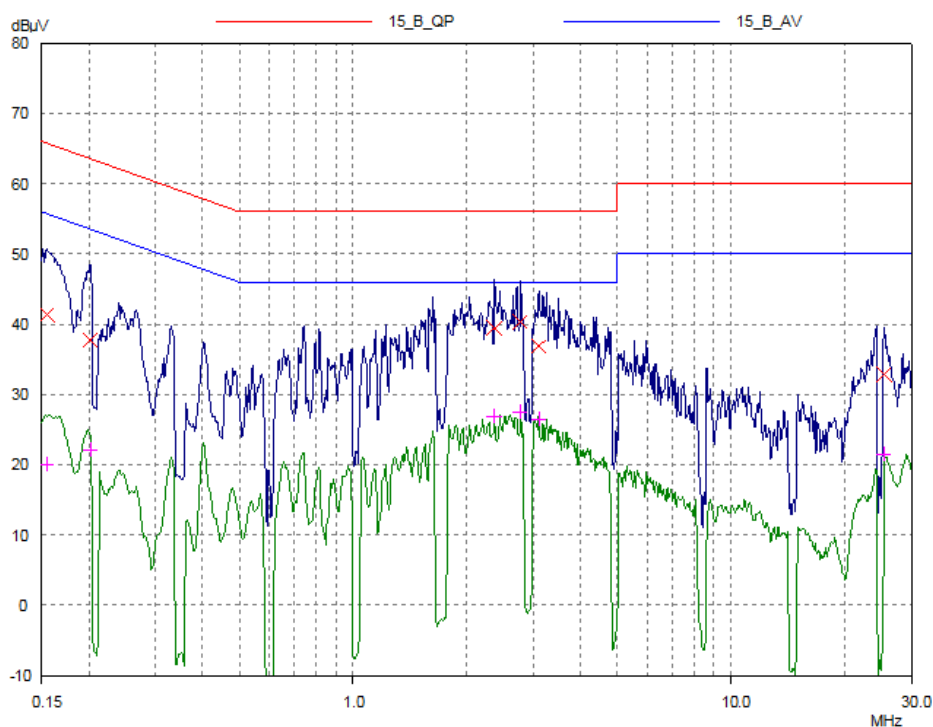
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## GSM 1900 idle mode

### L Line:



#### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15485	41.43	65.74	24.31
0.20143	37.70	63.55	25.85
2.36284	39.43	56.00	16.57
2.77106	40.33	56.00	15.67
3.09808	36.84	56.00	19.16
25.39065	32.82	60.00	27.18

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15485	20.00	55.74	35.74
0.20143	22.08	53.55	31.47
2.36284	26.81	46.00	19.19
2.77106	27.48	46.00	18.52
3.09808	26.53	46.00	19.47
25.39065	21.50	50.00	28.50

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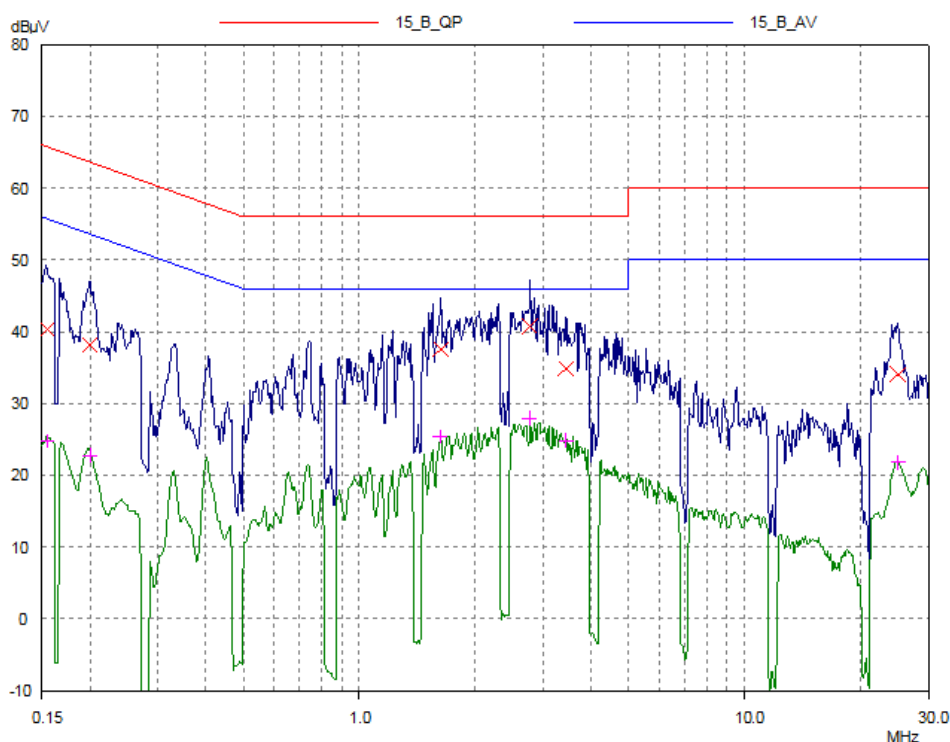
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## BT function mode

### L Line:



#### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15485	40.33	65.74	25.41
0.19983	38.19	63.62	25.43
1.62476	37.58	56.00	18.42
2.77106	40.71	56.00	15.29
3.43621	34.91	56.00	21.09
24.98922	34.07	60.00	25.93

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15485	24.70	55.74	31.04
0.19983	22.72	53.62	30.90
1.62476	25.37	46.00	20.63
2.77106	27.86	46.00	18.14
3.43621	24.85	46.00	21.15
24.98922	21.80	50.00	28.20

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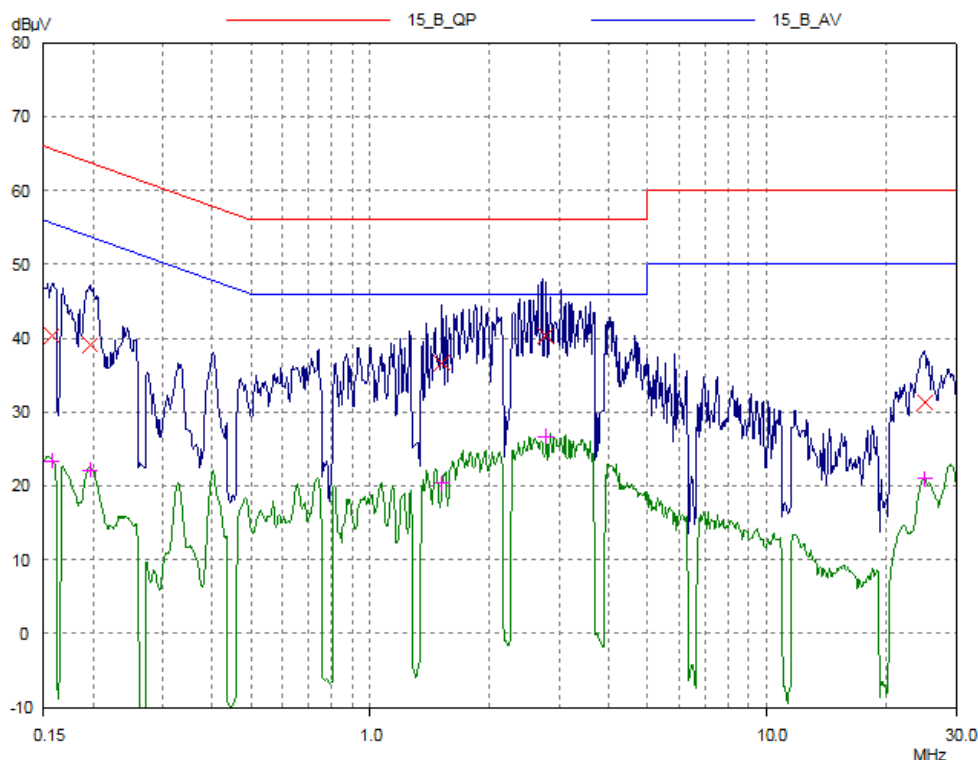
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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15734	40.32	65.60	25.28
0.19667	39.08	63.75	24.67
1.51232	36.66	56.00	19.34
2.77106	40.27	56.00	15.73
24.98922	31.29	60.00	28.71

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15734	23.39	55.60	32.21
0.19667	22.13	53.75	31.62
1.51232	20.35	46.00	25.65
2.77106	26.71	46.00	19.29
24.98922	20.95	50.00	29.05

***End of Report~***

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