

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

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Report No.: SHEMO071200006IT
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FCC TEST REPORT

Application No.: SHEMO071200006IT

Applicant: ZTE CORPORATION

Equipment Under Test (EUT):

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

EUT Name: LF152 HSDPA WCDMA/EDGE GPRS GSM MultiMode mobile phone

Model No.: LF152

Marketing Name: LF152

Item No.: Not supplied by client

Serial No.: Not supplied by client

Standards: CFR 47 part 2: 2004,
CFR 47 Part 15: 2005,
ANSI C63.4: 2003

Date of Receipt: December 4, 2007

Date of Test: December 5, 2007 to December 18, 2007

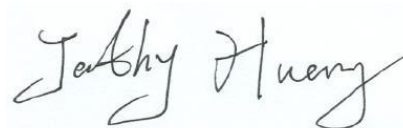
Date of Issue: December 19, 2007

Test Result :	PASS
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Authorized Signature:



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



Jathy Huang
E&E EMC 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.

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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: ZTE CORPORATION
Address of Applicant: ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R. China 518057

4.2 General Description of E.U.T.

EUT Name: LF152 HSDPA WCDMA/EDGE GPRS GSM MultiMode mobile phone
Model No.: LF152
Marketing Name: LF152
Brand Name: Not supplied by client
Serial No.: Not supplied by client

4.3 Details of E.U.T.

Power Supply01: AC to DC charger (Model NO: STC-A22O50U8
Input: AC 100V-240V~, 50/60Hz 0.2A Output:DC 5V, 700mA)
Power Cord01: 1.2m
Earphone: Model NO: TMD-600U
Battery: DC 3.7V / 800mAh
P/N: Li3708T42P3h553447

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 a LF152 HSDPA WCDMA/EDGE GPRS GSM MultiMode mobile phone .

The standards used was CFR 47 part 2: 2004, CFR 47 Part 15: 2005, ANSI C63.4: 2003

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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

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 E&E EMC lab

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

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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 through December 31, 2007.

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 29, 2004. Valid until May 18, 2008

CNAL – LAB Code: L0134

SIMT EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 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, December 9, 2002.

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. Date
1	HORN ANTENNA	R&S	HF 906	100023	2007.07.24	2008.07.23
2	BROADBAND ANTENNA	R&S	HL 562	100019	2007.10.10	2008.10.09
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2007.08.13	2008.08.13
4	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2007.09.01	2008.08.31

Conducted Emission CFR 47 part 15: 2005

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
1	EMI TEST RECEIVER	R&S	ESCS 30	100070	2007.08.28	2008.08.27
2	ARTIFICIAL MAINS NETWORK	R&S	ESH2-Z5	100030	2007.09.19	2008.09.18
3	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2007.09.01	2008.08.31

General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
1	Temperature, Humidity & Barometer	Oregon Scientific	BA-888	EMC0001 to EMC0004	2007.07.25	2008.07.24
2	DMM	Fluke	73	70681569 or 70671122	2007.07.23	2008.07.22

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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, CISPR 22
Test Date:	December 5, 2007 to December 18, 2007
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m for ANSI C63.4 and 10m for CISPR 22
Class:	N/A
Detector:	Peak for pre-scan (120kHz resolution bandwidth)

6.1.1 E.U.T. Operation

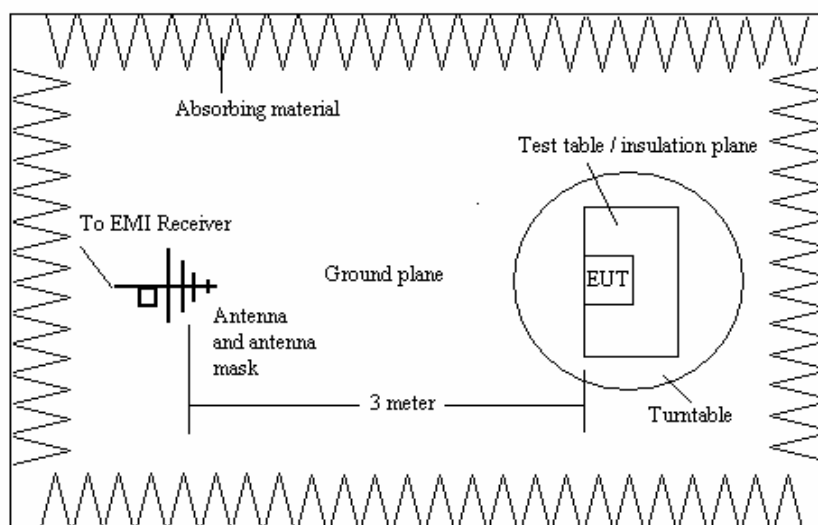
Operating Environment:

Temperature: 25.0 °C Humidity: 55 % RH Atmospheric Pressure: 1004 mbar

EUT Operation: EUT allocated GSM850, PCS 1900, WCDMA850, WCDMA1900 connected to phone with charger.

We have performed all the status, and we just choose the worst case in this report.

6.1.2 Test setup:



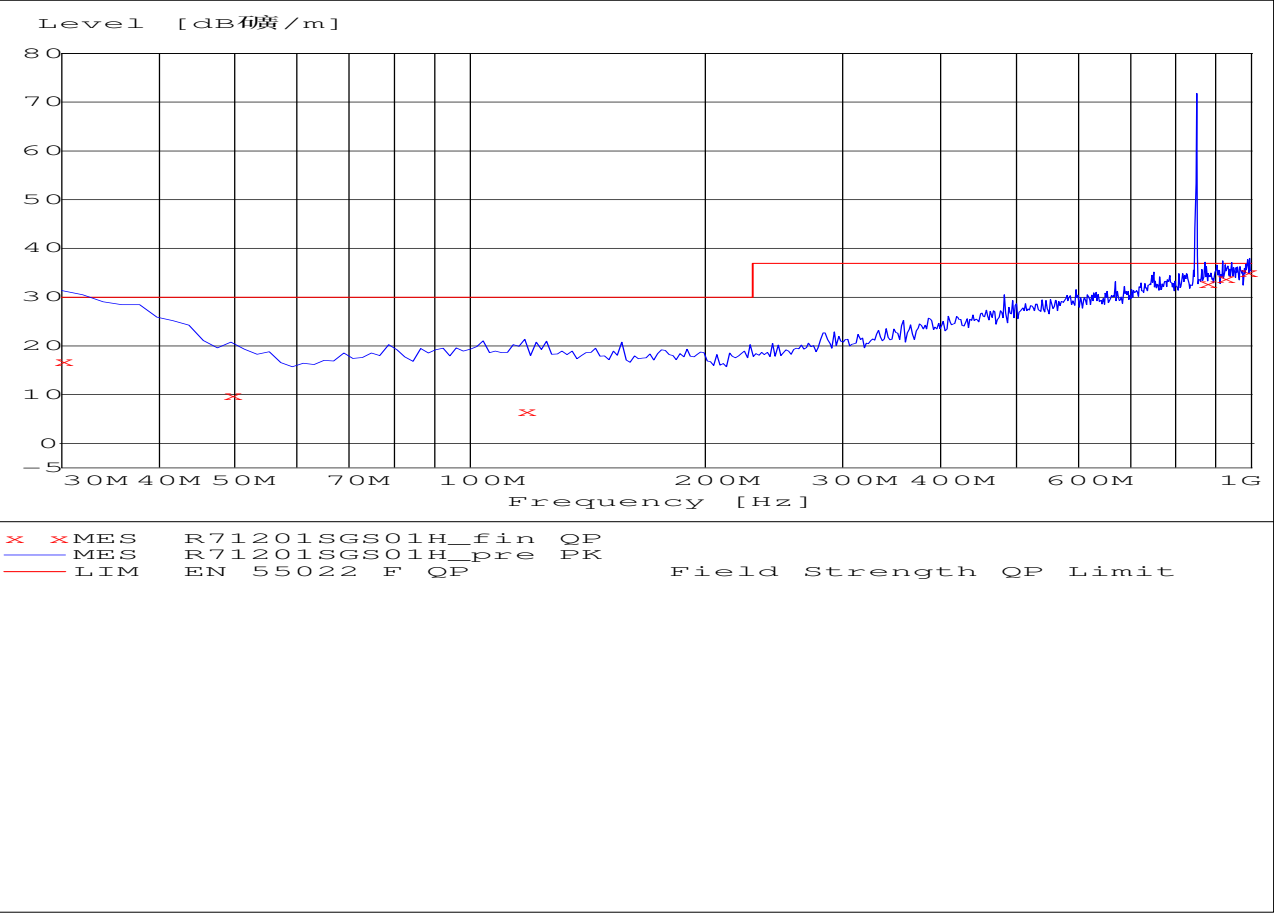
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6.1.3 Test Result:
GSM 850 connected:
Horizontal:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBμV/m	cm	deg		dBμV/m	dB
30.000000	16.78	100.0	0.00	HORIZONTAL	30.00	13.22
49.438880	9.81	100.0	180.00	HORIZONTAL	30.00	20.19
117.474950	6.53	100.0	270.00	HORIZONTAL	30.00	23.47
874.028060	32.80	100.0	0.00	HORIZONTAL	37.00	4.20
922.004010	33.93	100.0	0.00	HORIZONTAL	37.00	3.07
985.130261	34.94	100.0	180.00	HORIZONTAL	37.00	2.06

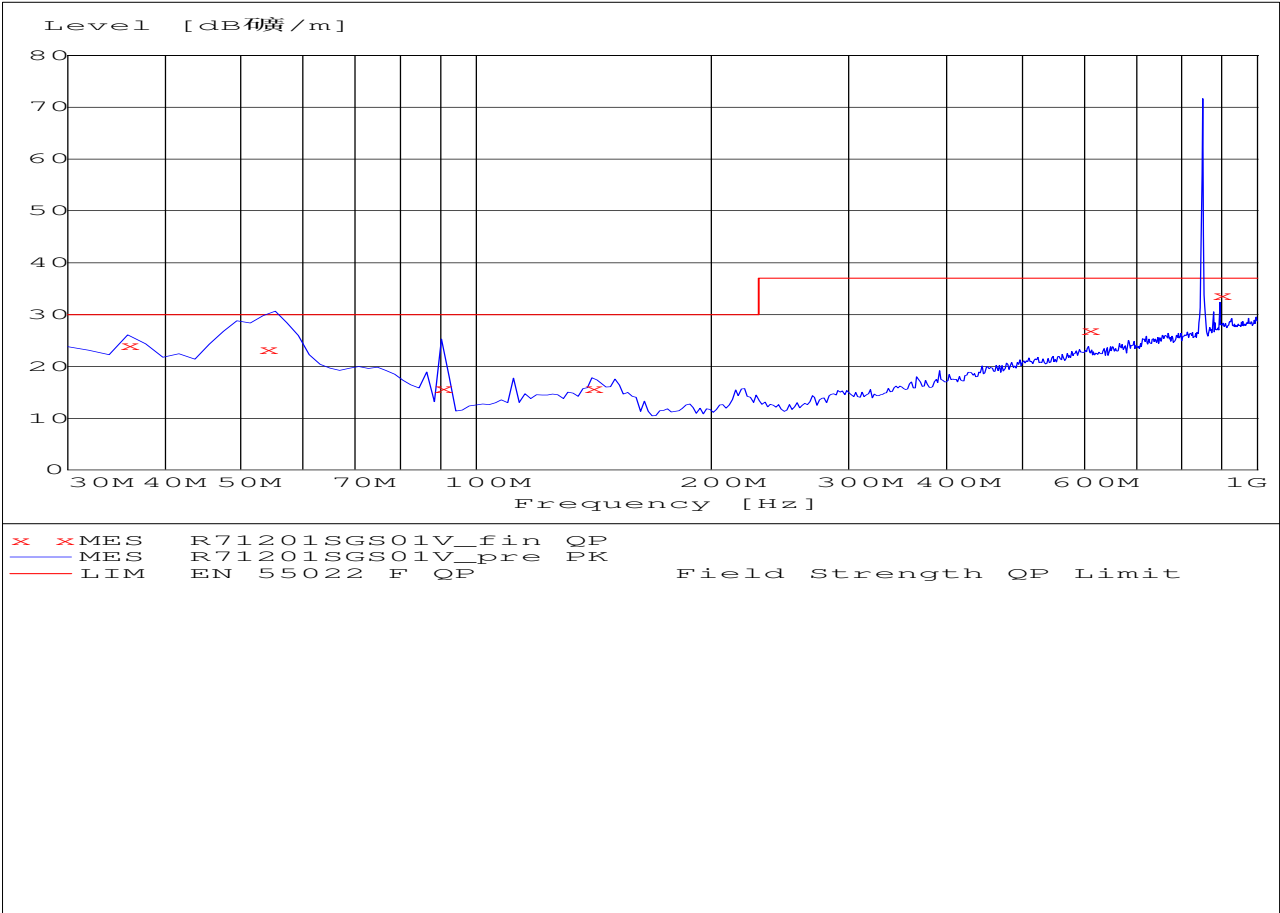
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Vertical:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBμV/m	cm	deg		dBμV/m	dB
35.831660	24.10	100.0	180.00	VERTICAL	30.00	5.90
53.887780	23.22	300.0	180.00	VERTICAL	30.00	6.78
90.260520	15.71	100.0	180.00	VERTICAL	30.00	14.29
140.801600	15.54	200.0	270.00	VERTICAL	30.00	14.46
607.334670	26.86	100.0	0.00	VERTICAL	37.00	10.14
895.030060	33.62	200.0	90.00	VERTICAL	37.00	3.38

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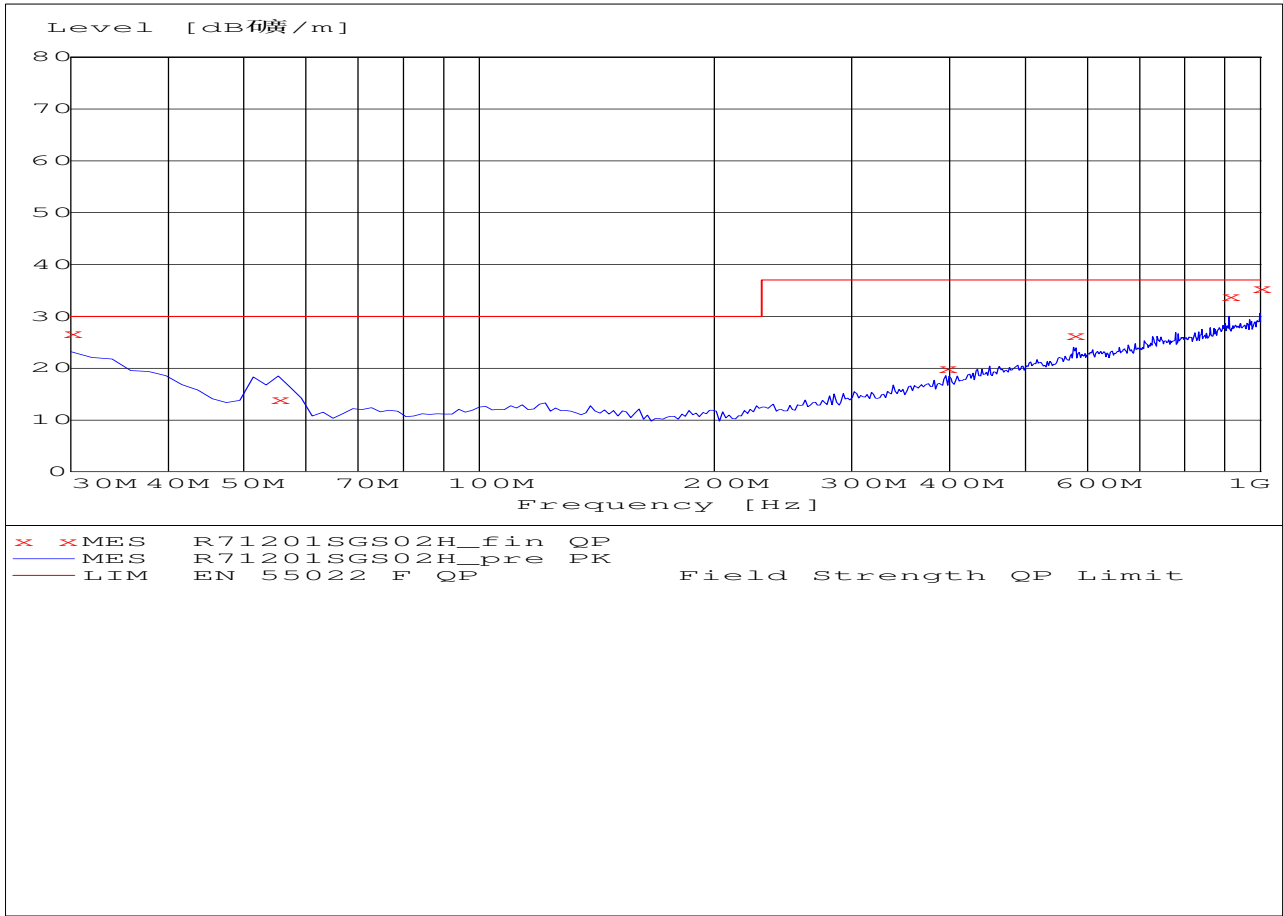
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PCS 1900 connected:

Horizontal:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBμV/m	cm	deg		dBμV/m	dB
30.000000	26.72	300.0	0.00	HORIZONTAL	30.00	3.28
55.270540	13.87	400.0	180.00	HORIZONTAL	30.00	16.13
395.450900	19.78	100.0	180.00	HORIZONTAL	37.00	17.22
576.232470	26.37	400.0	90.00	HORIZONTAL	37.00	10.63
910.460920	33.82	100.0	0.00	HORIZONTAL	37.00	3.18
998.056112	35.36	100.0	90.00	HORIZONTAL	37.00	1.64

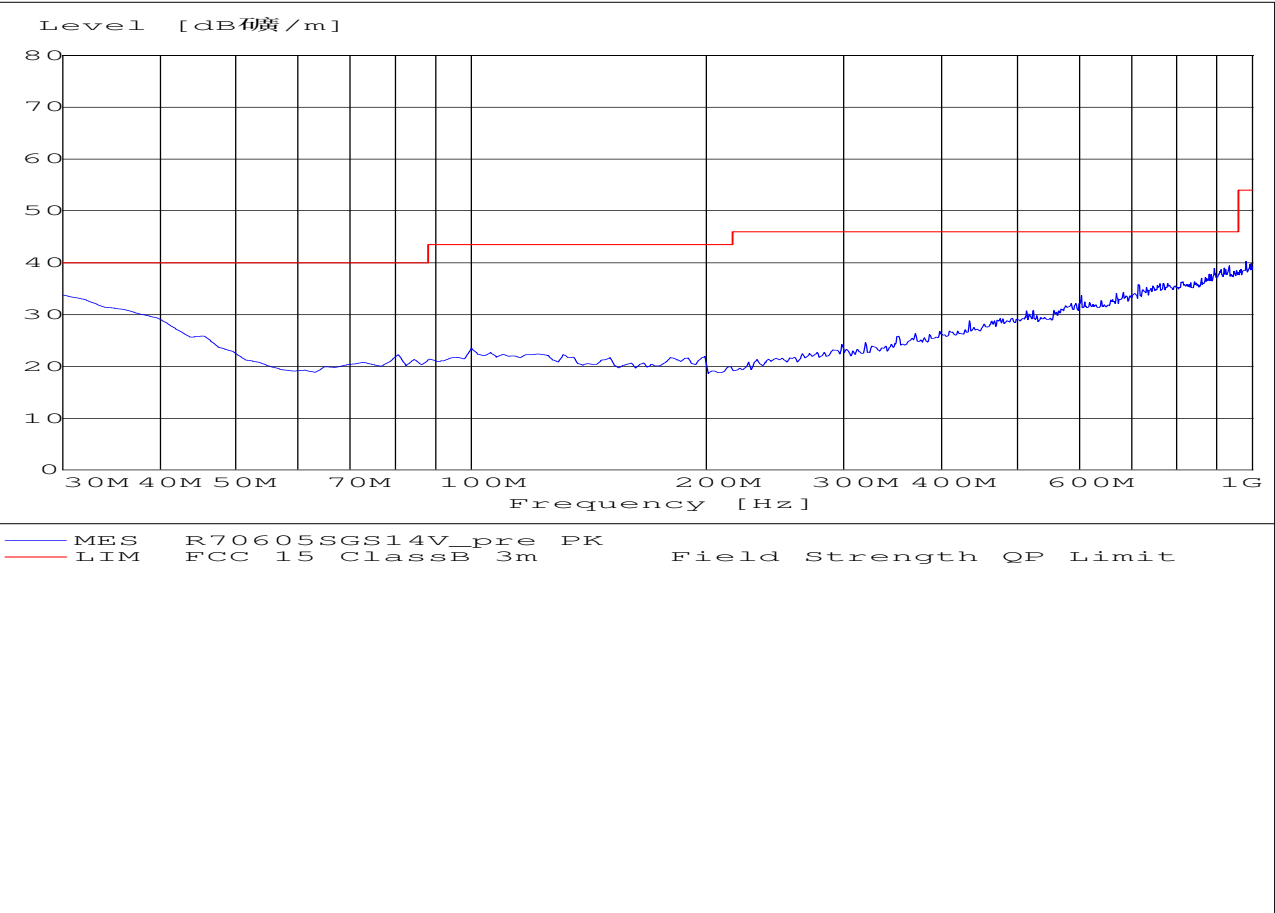
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Vertical:



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV)	Emission Level (dBuV/m)	Limit dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Vertical	*	*	30	*	-	-
45	Vertical	*	*	30	*	-	-
191	Vertical	*	*	30	*	-	-
245	Vertical	*	*	37	*	-	-
500	Vertical	*	*	37	*	-	-
700	Vertical	*	*	37	*	-	-
1000	Vertical	*	*	37	*	-	-

1. All readings are Quasi-Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

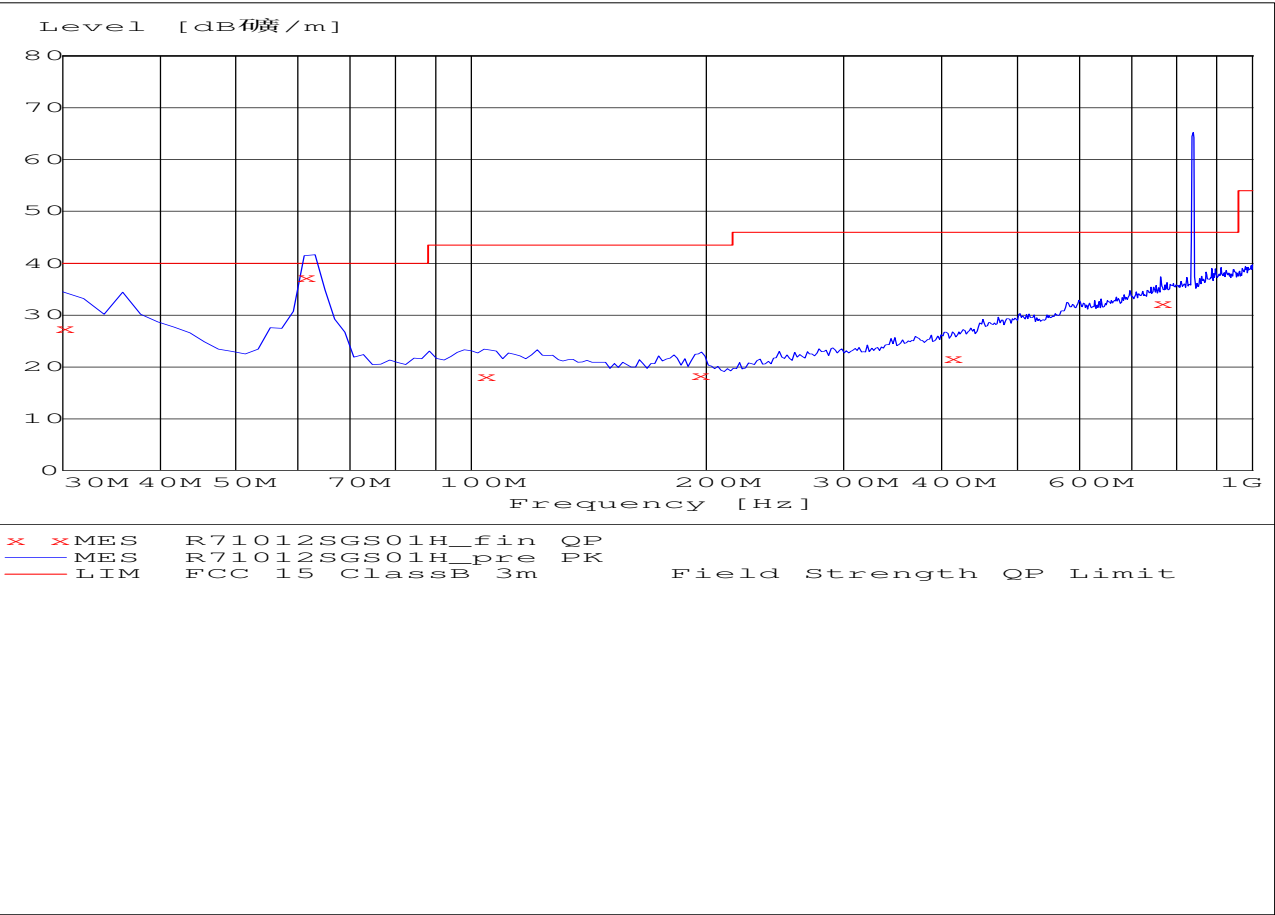
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WCDMA850 connected::
Horizontal:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBμV/m	cm		deg	dBμV/m	dB
30.000000	27.40	100.0	40.00	HORIZONTAL	40.00	12.60
61.102204	37.20	200.0	170.00	HORIZONTAL	40.00	2.80
103.867735	18.20	400.0	100.00	HORIZONTAL	43.50	25.30
195.230460	18.40	300.0	170.00	HORIZONTAL	43.50	25.10
411.002004	21.50	100.0	10.00	HORIZONTAL	46.00	24.50
762.845691	32.10	400.0	180.00	HORIZONTAL	46.00	13.90

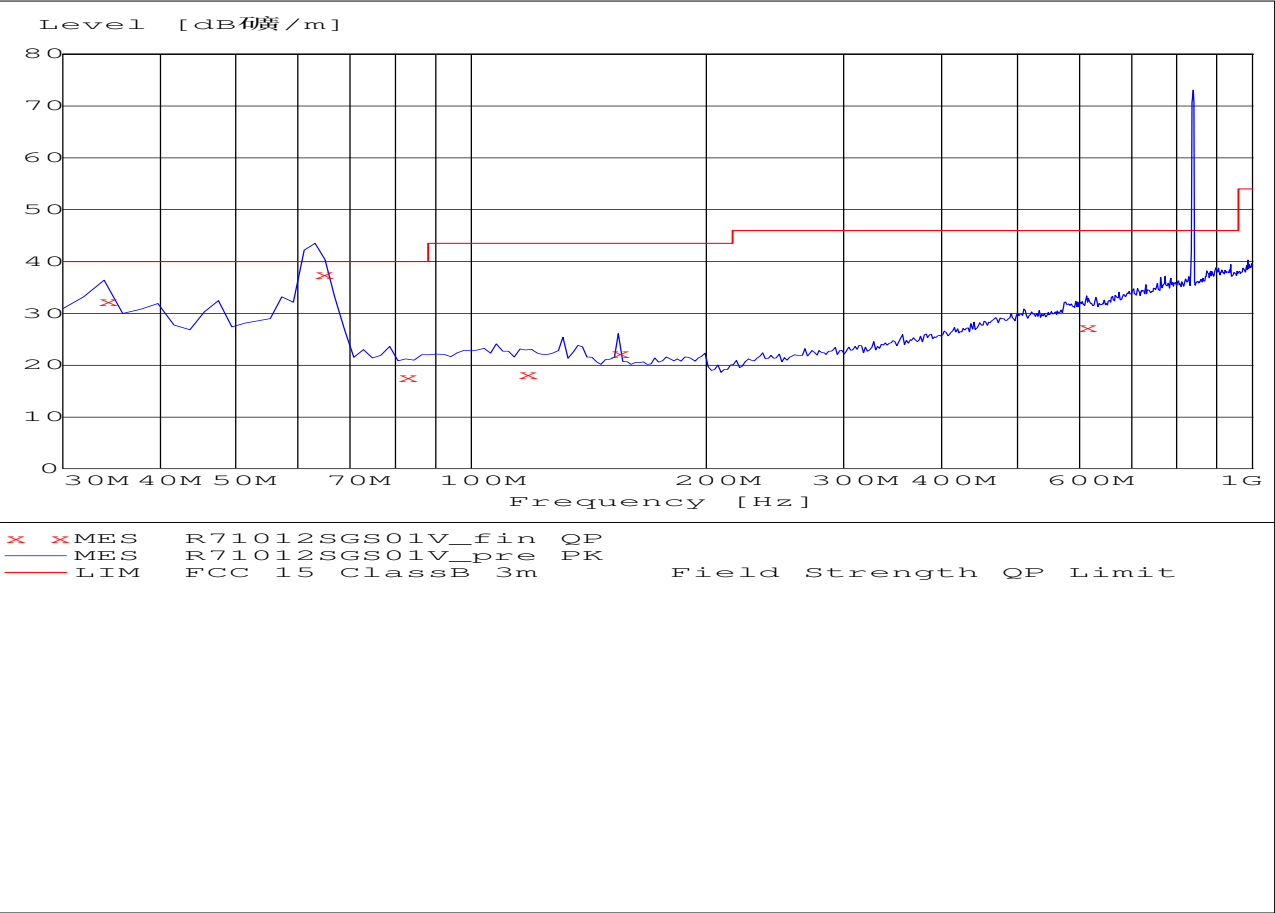
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Vertical:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBμV/m	cm	deg		dBμV/m	dB
34.074857	32.10	200.0	10.00	VERTICAL	40.00	7.90
64.378690	37.50	200.0	30.00	VERTICAL	40.00	2.50
82.484970	17.56	300.0	200.00	VERTICAL	40.00	22.44
117.474950	18.20	250.0	110.00	VERTICAL	43.50	25.30
154.408818	22.10	200.0	220.00	VERTICAL	43.50	21.40
610.166333	27.20	300.0	30.00	VERTICAL	46.00	18.80

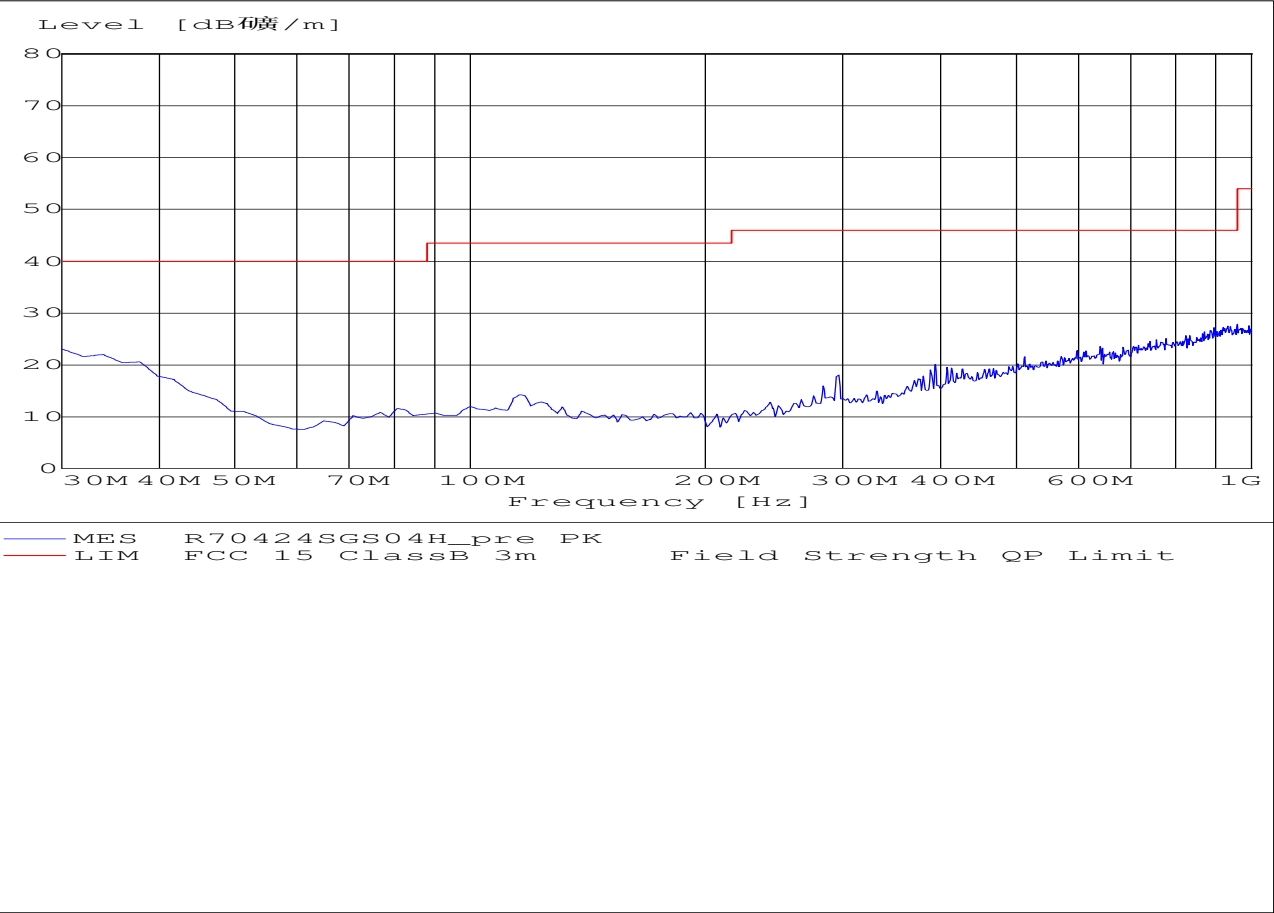
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WCDMA1900 connected:
Horizontal:



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV)	Emission Level (dBuV/m)	Limit dBuV/m	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Horizontal	*	*	30	*	-	-
45	Horizontal	*	*	30	*	-	-
191	Horizontal	*	*	30	*	-	-
245	Horizontal	*	*	37	*	-	-
500	Horizontal	*	*	37	*	-	-
700	Horizontal	*	*	37	*	-	-
1000	Horizontal	*	*	37	*	-	-

1. All readings are Quasi-Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

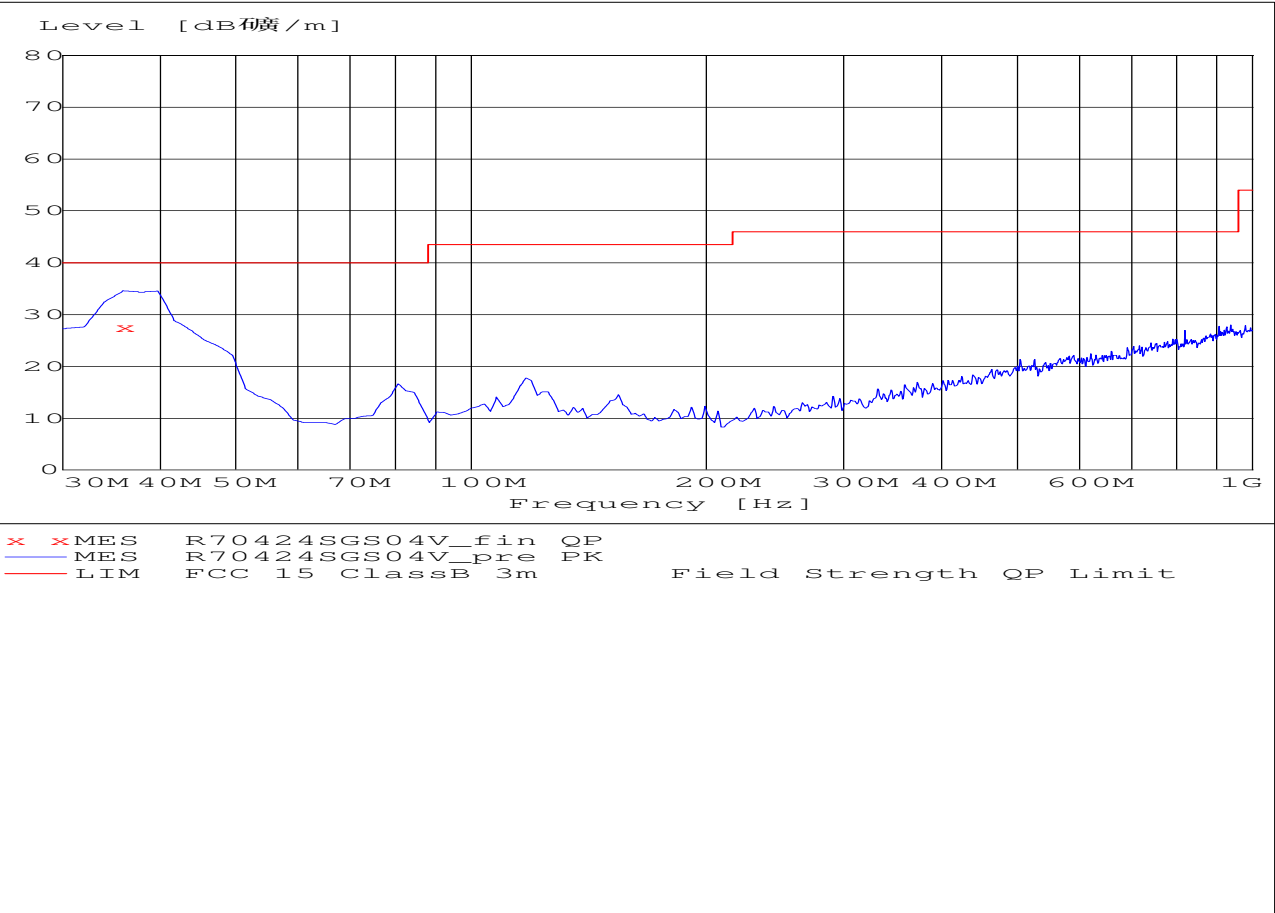
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Vertical:



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	
35.831663	27.46	100.0	180.00	VERTICAL

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6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15
Test Method:	ANSI C63.4
Test Date:	December 5, 2007 to December 18, 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: 1012 mbar
EUT Operation: Test EUT is the in the allocated channel mode Charging, GSM850, PCS
1900 with headset.

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 class B limit line.

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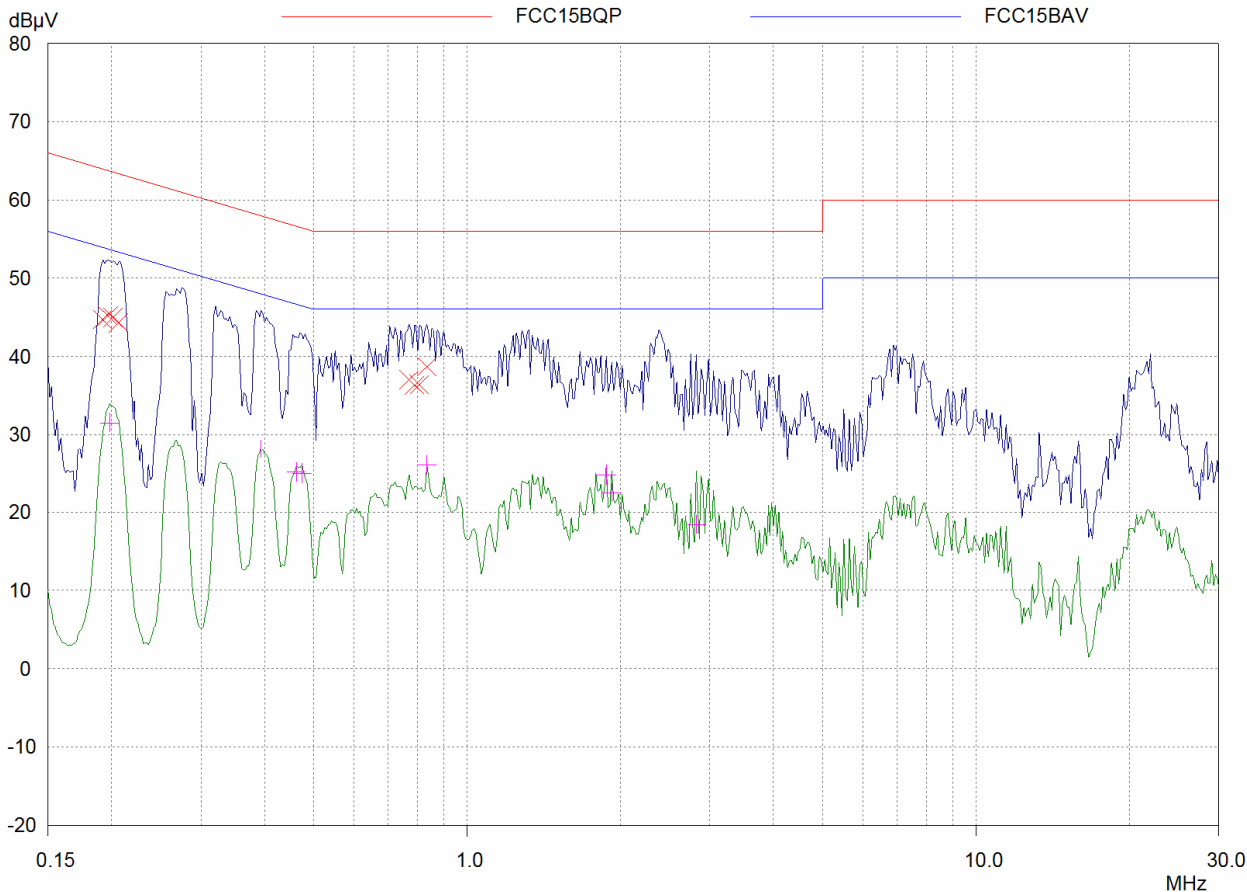
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GSM 850 connected:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.19202	44.69	63.95	19.26
0.19667	45.17	63.75	18.58
0.20143	44.95	63.55	18.60
0.2063	44.31	63.35	19.04
0.76824	36.99	56.00	19.01
0.78683	36.29	56.00	19.71
0.80586	36.38	56.00	19.62
0.83196	38.64	56.00	17.36

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.19824	31.50	53.68	22.18
0.39338	28.05	47.99	19.94
0.46134	25.06	46.67	21.61
0.4725	24.90	46.47	21.57
0.83196	25.98	46.00	20.02
1.87533	24.75	46.00	21.25
1.9207	22.42	46.00	23.58
2.81557	18.35	46.00	27.65

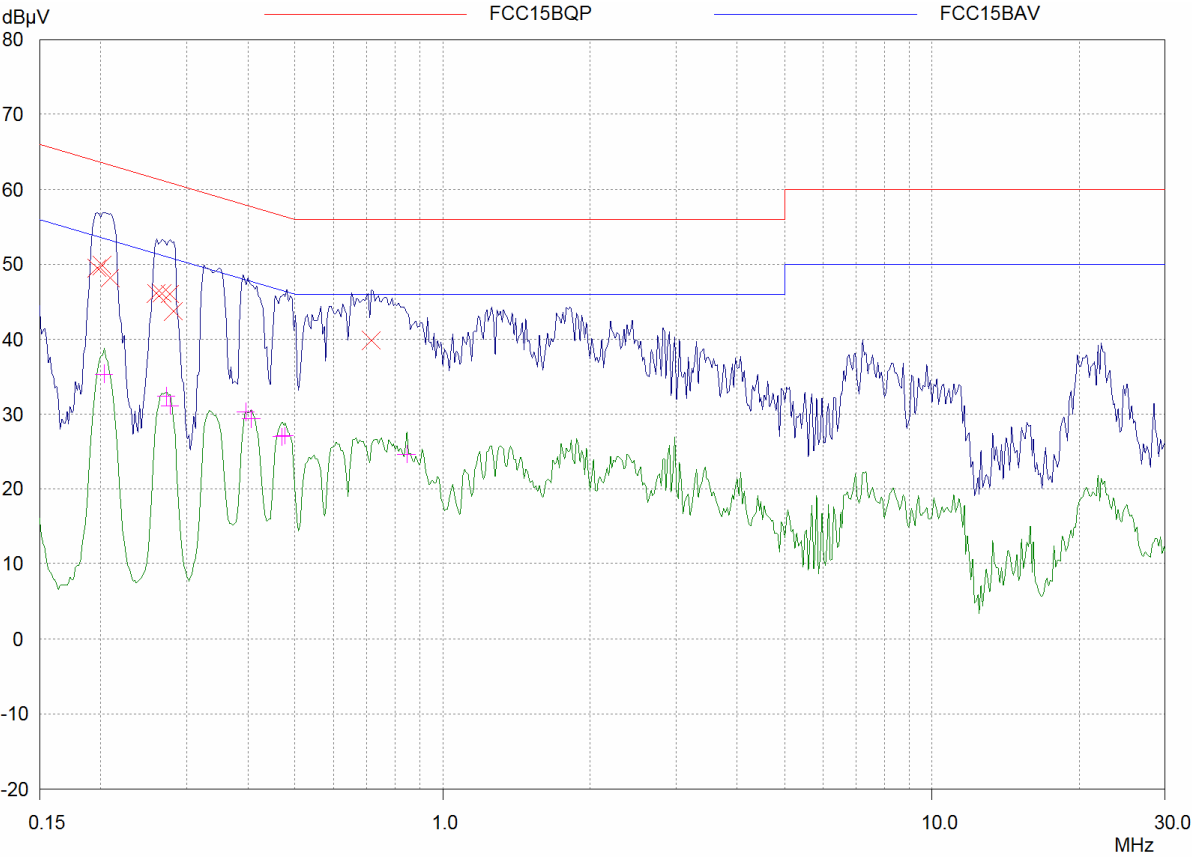
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.19667	49.47	63.75	14.28
0.20143	49.84	63.55	13.71
0.20962	48.13	63.22	15.09
0.25993	46.15	61.43	15.28
0.26622	46.11	61.24	15.13
0.27704	46.05	60.90	14.85
0.28149	43.73	60.77	17.04
0.71508	39.87	56.00	16.13

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.20304	35.34	53.49	18.15
0.27266	32.42	51.04	18.62
0.27704	31.12	50.90	19.78
0.39653	30.31	47.93	17.62
0.40612	29.42	47.73	18.31
0.46875	26.87	46.54	19.67
0.47628	27.04	46.40	19.36
0.84533	24.55	46.00	21.45

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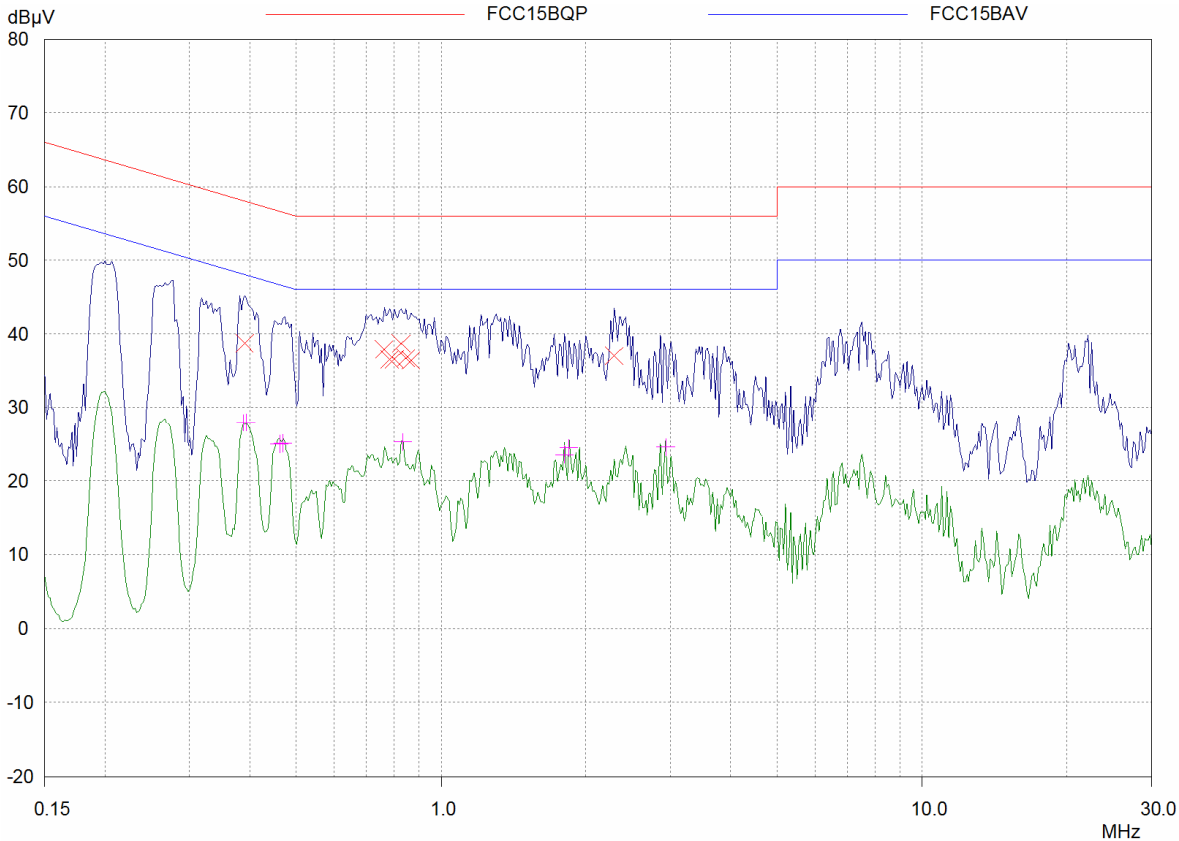
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PCS1900 connected:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.39026	38.71	58.06	19.35
0.76214	37.87	56.00	18.13
0.78058	36.51	56.00	19.49
0.79947	36.57	56.00	19.43
0.82536	38.64	56.00	17.36
0.84533	36.72	56.00	19.28
0.86578	36.39	56.00	19.61
2.28872	37.00	56.00	19.00

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.38716	27.85	48.12	20.27
0.39338	27.90	47.99	20.09
0.46134	24.91	46.67	21.76
0.46875	25.05	46.54	21.49
0.83196	25.20	46.00	20.80
1.80209	23.50	46.00	22.50
1.84569	24.40	46.00	21.60
2.93001	24.47	46.00	21.53

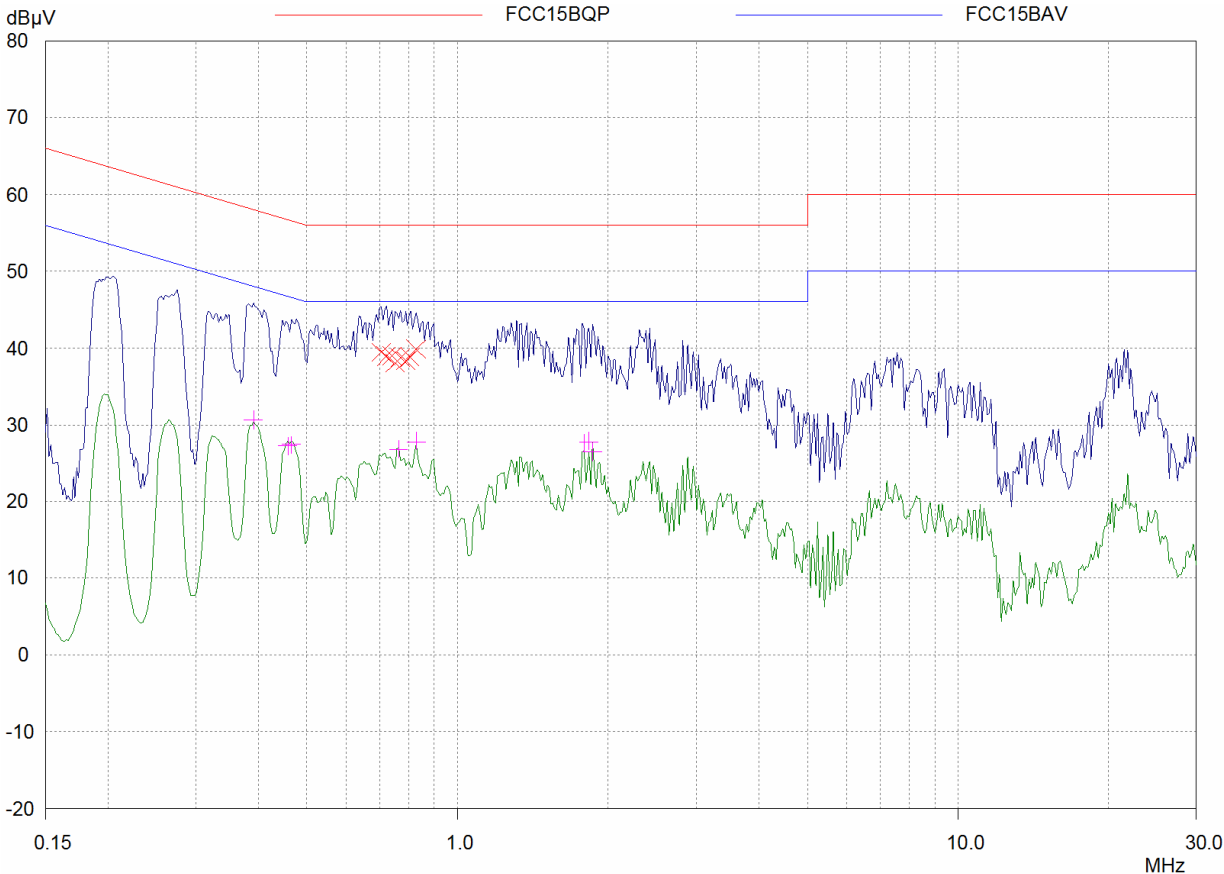
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.70377	39.47	56.00	16.53
0.7208	38.93	56.00	17.07
0.73824	38.95	56.00	17.05
0.75009	38.03	56.00	17.97
0.76824	38.77	56.00	17.23
0.78683	38.39	56.00	17.61
0.80586	38.82	56.00	17.18
0.82536	39.86	56.00	16.14

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.39026	30.62	48.06	17.44
0.45768	27.16	46.73	19.57
0.46503	27.32	46.60	19.28
0.76214	26.72	46.00	19.28
0.82536	27.84	46.00	18.16
1.78779	27.54	46.00	18.46
1.83104	27.85	46.00	18.15
1.86045	26.35	46.00	19.65

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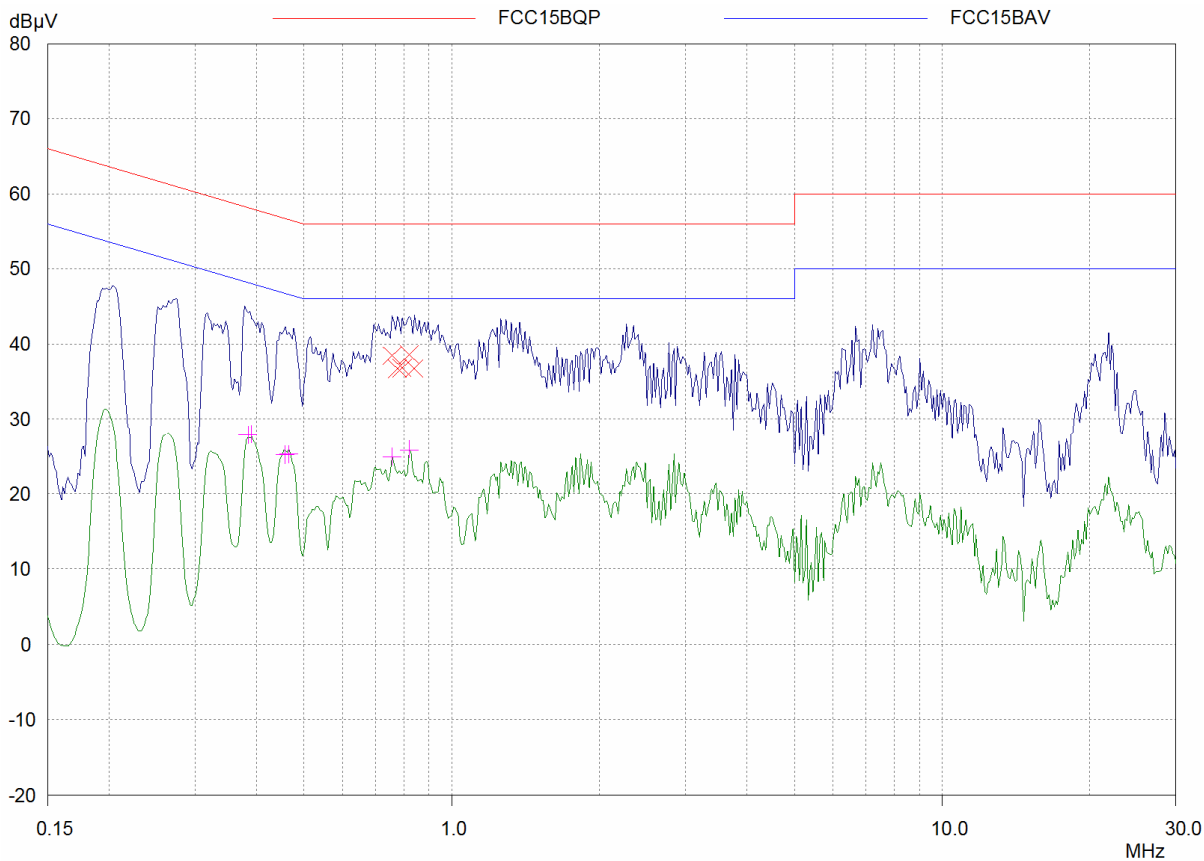
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WCDMA 850 connected:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.7561	38.45	56.00	17.55
0.77439	36.69	56.00	19.31
0.79312	36.77	56.00	19.23
0.81881	38.58	56.00	17.42
0.83862	36.70	56.00	19.30

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.38409	27.81	48.19	20.38
0.39026	27.90	48.06	20.16
0.45768	25.13	46.73	21.60
0.46503	25.20	46.60	21.40
0.7561	24.85	46.00	21.15
0.81881	25.79	46.00	20.21

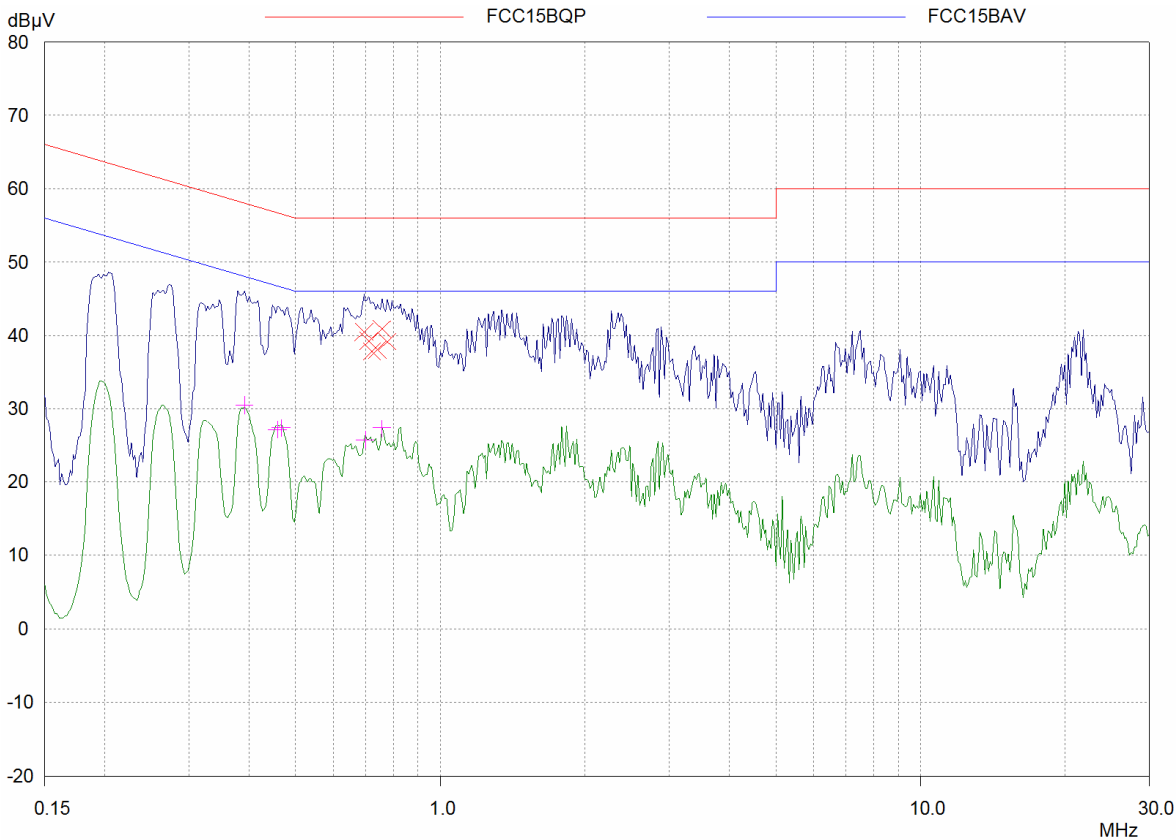
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N line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.69264	40.49	56.00	15.51
0.7094	39.21	56.00	16.79
0.7208	37.81	56.00	18.19
0.73824	38.07	56.00	17.93
0.7561	40.86	56.00	15.14
0.77439	39.15	56.00	16.85

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.39026	30.47	48.06	17.59
0.45768	27.05	46.73	19.68
0.46503	27.27	46.60	19.33
0.69819	25.64	46.00	20.36
0.7561	27.22	46.00	18.78

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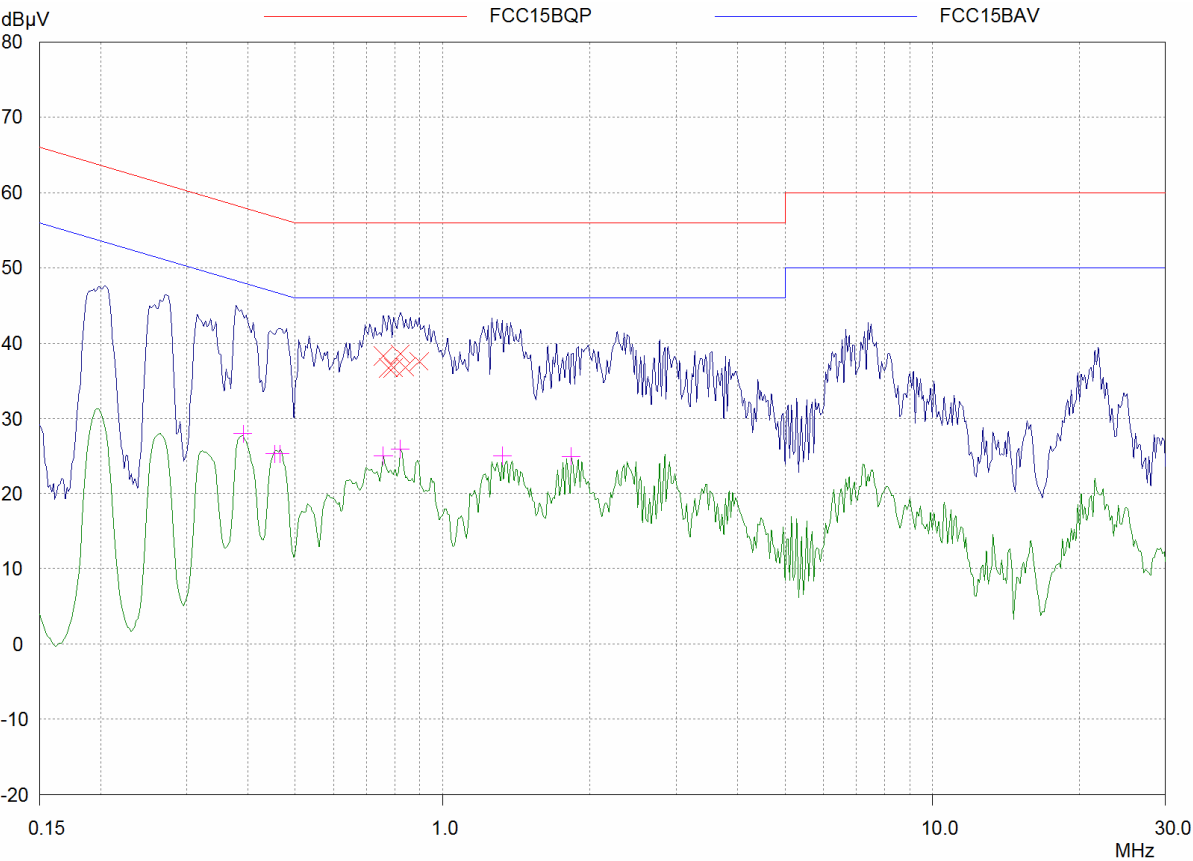
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WCDMA 1900 connected:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.7561	38.31	56.00	17.69
0.77439	36.75	56.00	19.25
0.79312	36.75	56.00	19.25
0.81881	38.56	56.00	17.44
0.83862	36.76	56.00	19.24
0.89382	37.59	56.00	18.41

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.39026	27.90	48.06	20.16
0.45405	25.20	46.80	21.60
0.46503	25.20	46.60	21.40
0.7561	24.92	46.00	21.08
0.81881	25.85	46.00	20.15
1.32073	24.91	46.00	21.09
1.83104	24.85	46.00	21.15

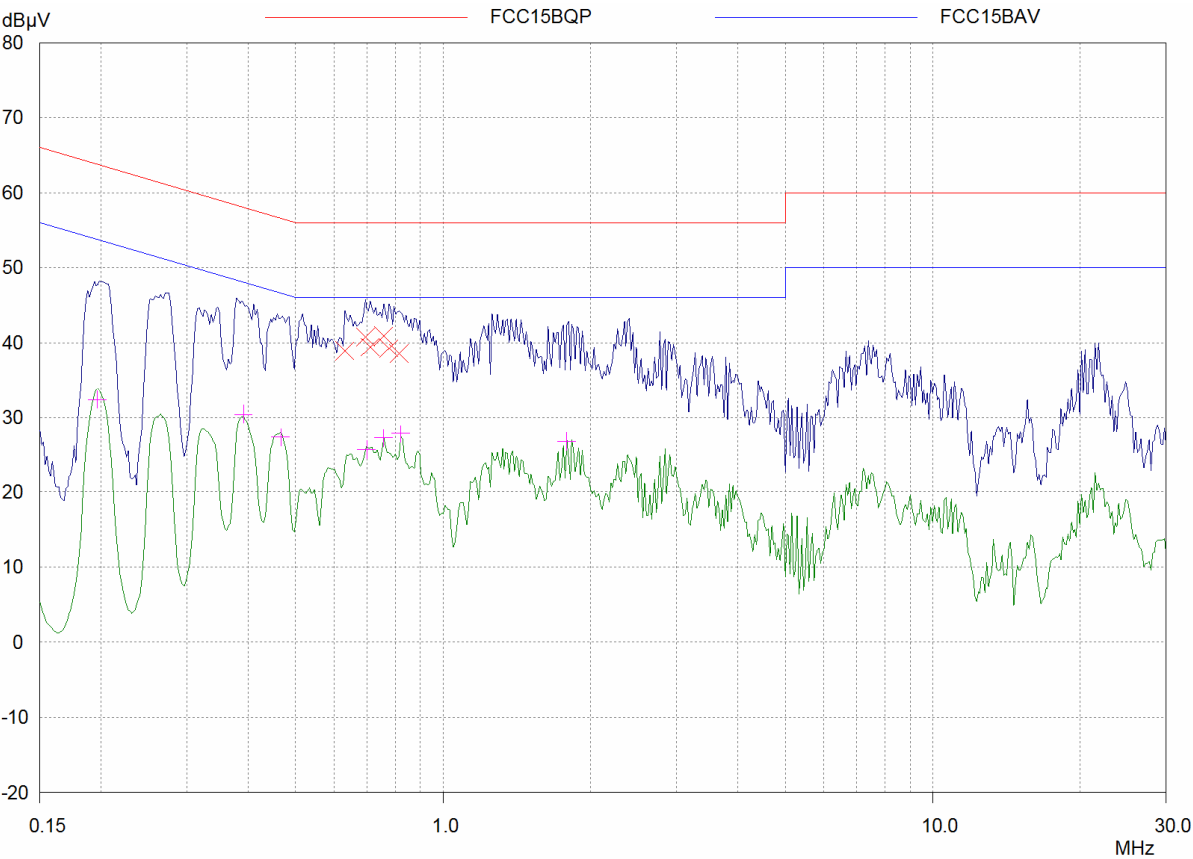
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.62948	38.85	56.00	17.15
0.69264	40.69	56.00	15.31
0.7094	39.37	56.00	16.63
0.7561	40.88	56.00	15.12
0.77439	39.23	56.00	16.77
0.81231	38.50	56.00	17.50

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.19667	32.38	53.75	21.37
0.39026	30.39	48.06	17.67
0.46503	27.27	46.60	19.33
0.69819	25.58	46.00	20.42
0.7561	27.17	46.00	18.83
0.81881	27.69	46.00	18.31
1.78779	26.72	46.00	19.28

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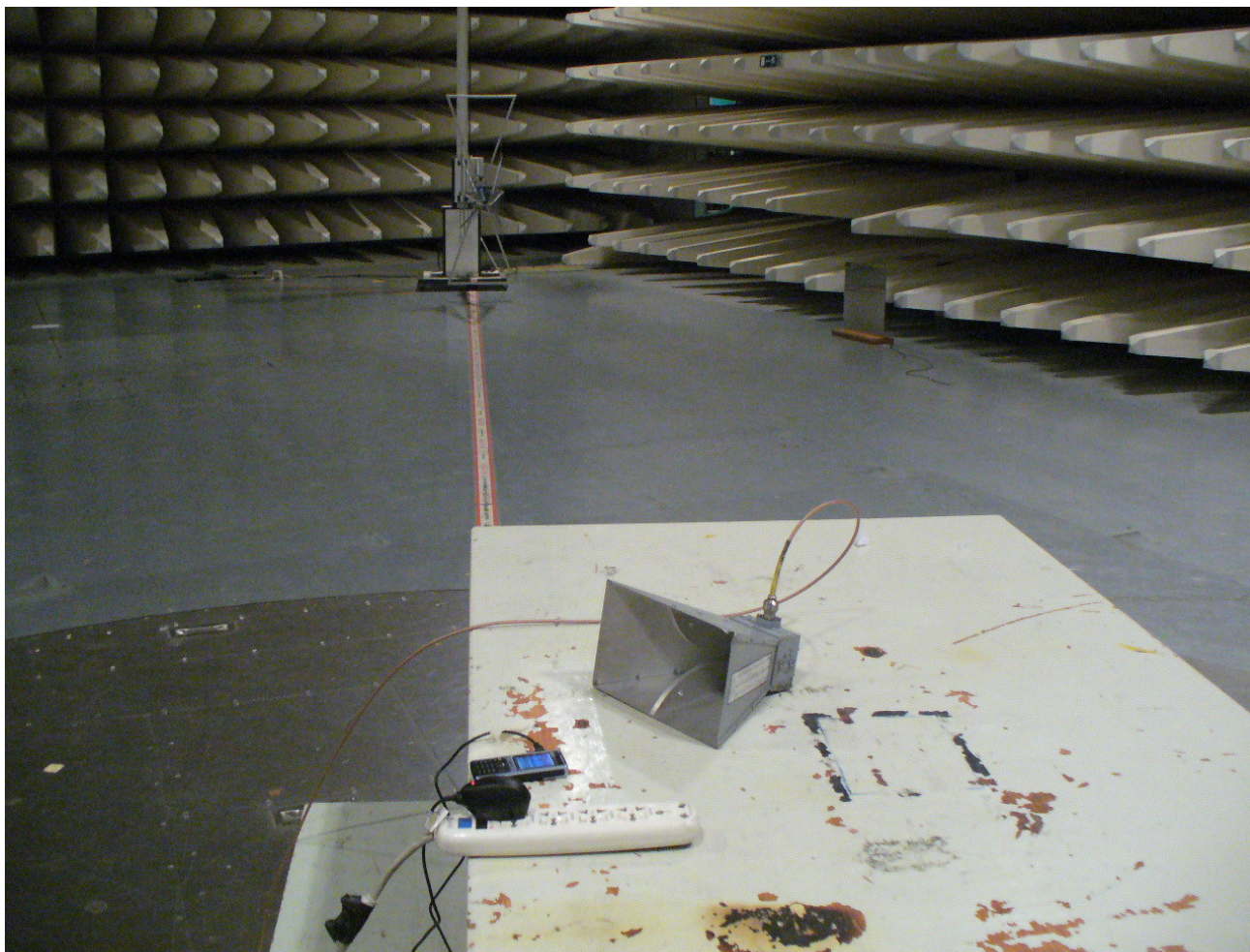
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7 Photographs

7.1 Radiated Emission Test Setup



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7.2 Conducted Emission Test Setup



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7.3 EUT Constructional Details



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