

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

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FCC TEST REPORT(DOC)

Application No.: SHEMO060600029IT

Applicant: T&A Mobile Phones

Equipment Under Test (EUT):

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

EUT Name: GSM Mobile Phone

Model No.: D6Ca

Marketing Name: OT-C630a

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: 27 June 2006

Date of Test: 28 June 2006 to 10 July 2006

Date of Issue: 12 July 2006

Test Result :	PASS
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Authorized Signature:



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



Jacky Cao
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.

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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: T&A Mobile Phones
Address of Applicant: 4/F, No. 2966, JinKe Road, Zhangjiang High-Tech Park Shanghai
P.R China 201203

4.2 General Description of E.U.T.

EUT Name: GSM Mobile Phone
Model No.: D6Ca
Marketing Name: OT-C630a
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: 3DS10628AGAA Input: AC 100V-240V~, 50/60Hz 100mA Output: DC 4.5V, 0.35A)
Manufactures: Tenpao

Power Cord01: 2.0m

Power Supply02: AC to DC charger (Model NO: 3DS09371AGAA Input: AC 100V-127V~, 50/60Hz 150mA Output:DC 4.5V, 0.35A)
Manufactures: Leader

Power Cord02: 2.0m

Data cable01: Product model name: JW-DC101 D6 data cable
Manufactures: Shenzhen Juwei Electronic Co.,Ltd

Data cable02: Product model: PTT-A-0603A
Manufactures: Shenzhen Putiantong Cyber Industry Co. Ltd

Headset
P/N: 3DS07855AAAA
Manufacturers: Merry

Battery
DC 3.7V / 650mAh
P/N: T5000157AAAA
Identification No.: GSM60035AR,
Manufacturers: BYD

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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 GSM Mobile Phone.

The standards used was CFR 47 part 2: 2004 and 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

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, 2004.

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, 2007

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

RE in SAC ETSI EN 301 489-1: EN 55022						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	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	2006-03-06	2007-03-05
4	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	100536	2006-01-25	2007-01-24

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2006-6-29	2007-6-28
2	Line impedance stabilization network	ETS	3816/2	00034161	2006-6-29	2007-6-28

General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due date
1	Temperature, Humidity & Barometer	Oregon Scientific	BA-888	EMC0001 to EMC0004	2005-07-25	2006-07-24
2	DMM	Fluke	73	70681569 or 70671122	2005-07-23	2006-07-22

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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:	July 5, 2006
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)

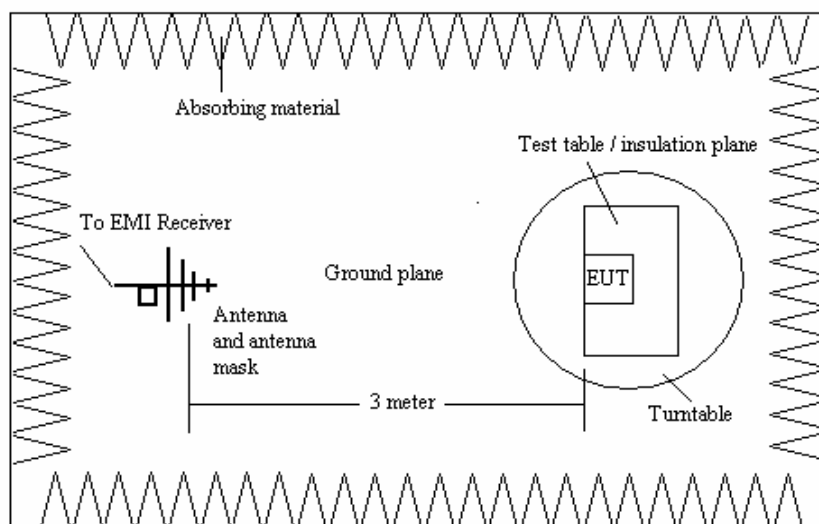
6.1.1 E.U.T. Operation

Operating Environment:

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

EUT Operation: EUT allocated channel mode GSM850, PCS 1900 with headset,
adapter and data cable

6.1.2 Test setup:



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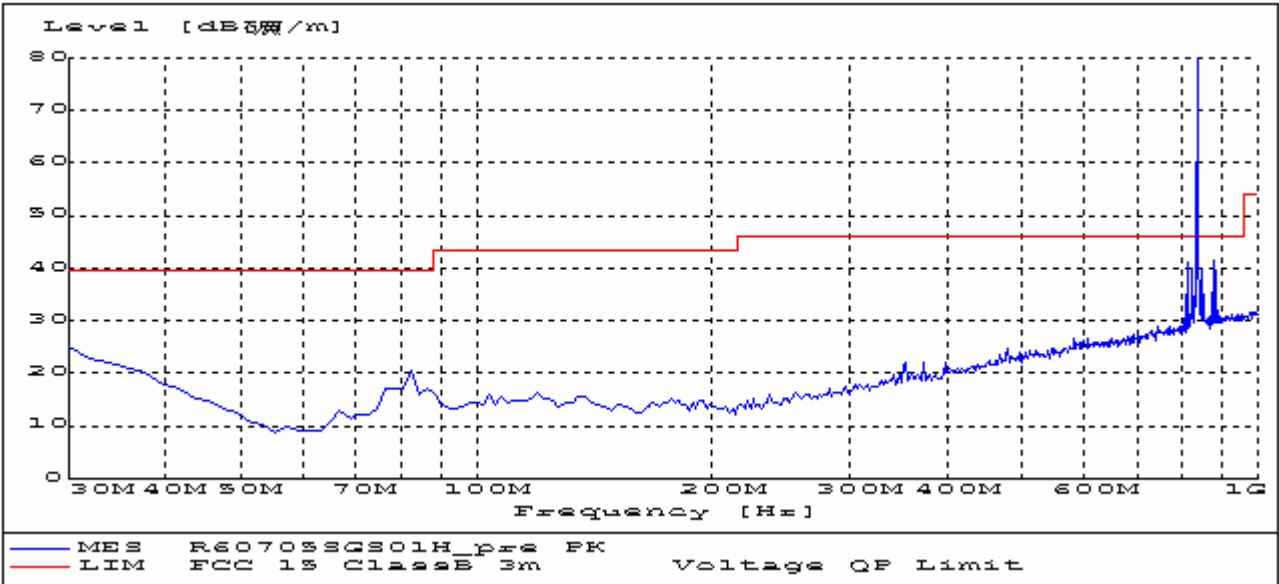
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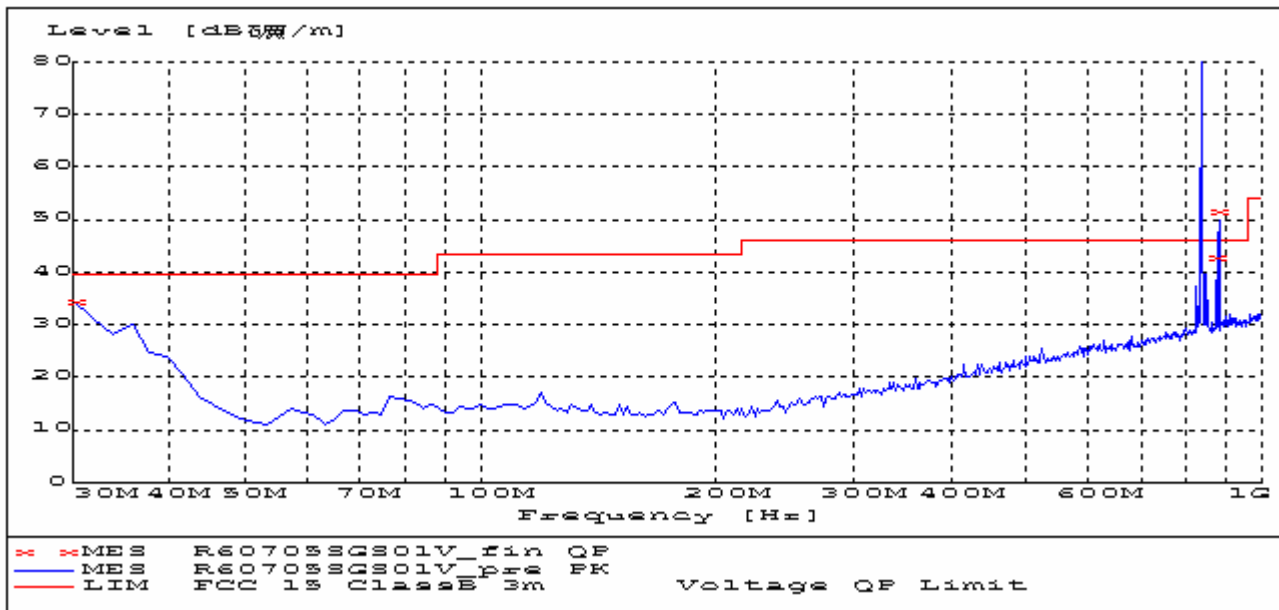
6.1.3 Test Result:

GSM850 dedicated: (test with the adapter of Tenpao and earphone)

Horizontal:



Vertical:



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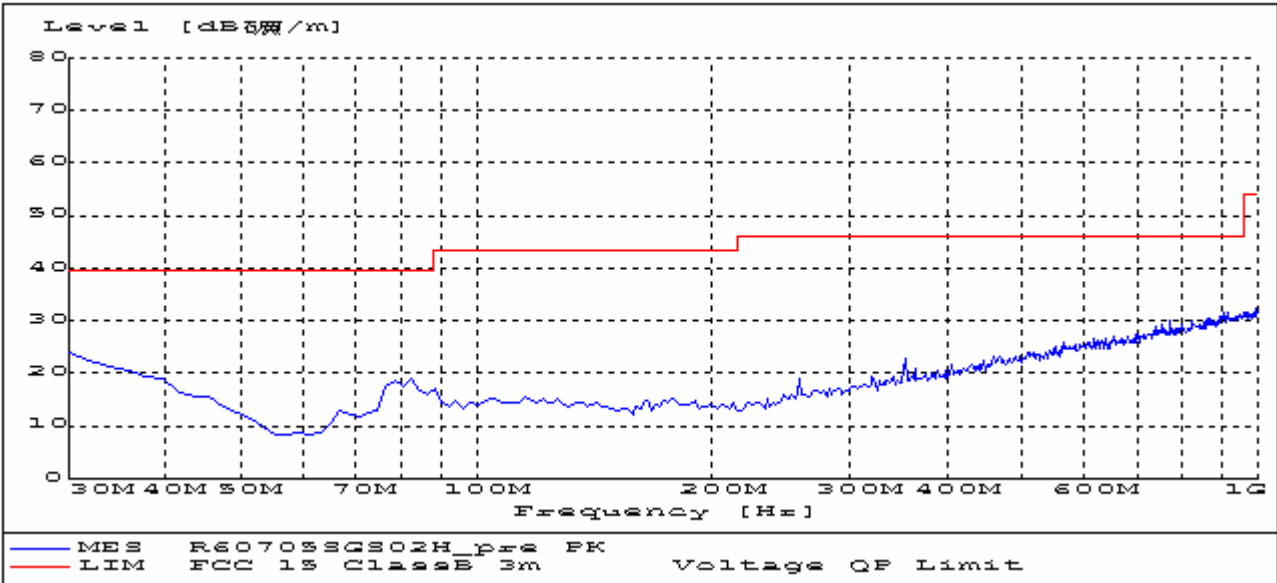
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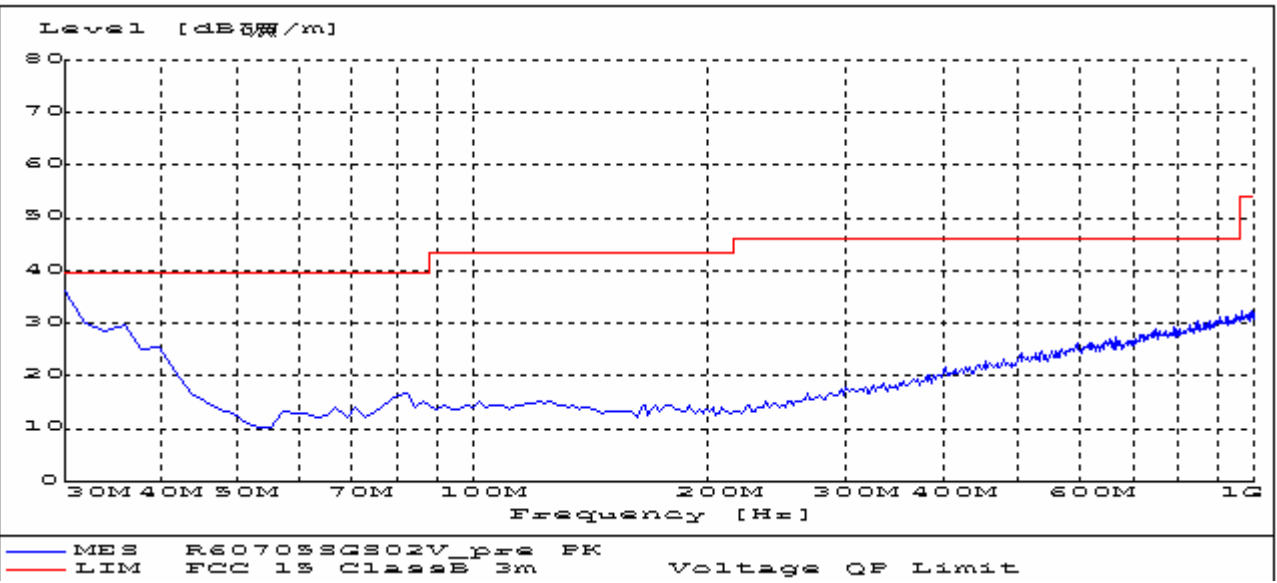
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GSM1900 dedicated: (test with the adapter of Tenpao and earphone)

Horizontal:



Vertical:



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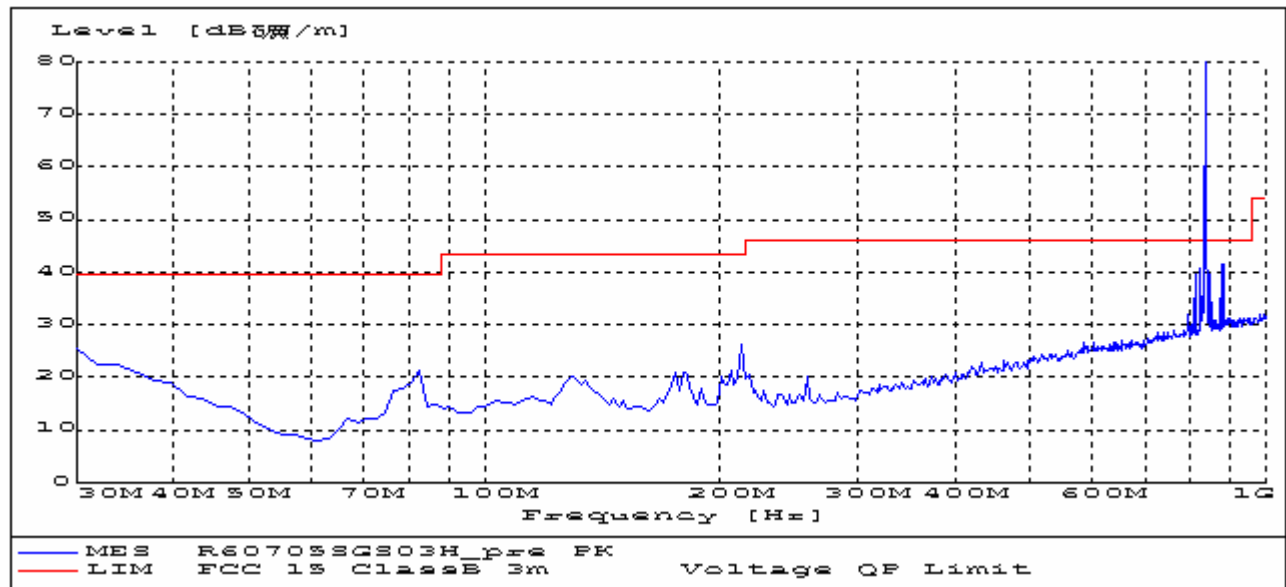
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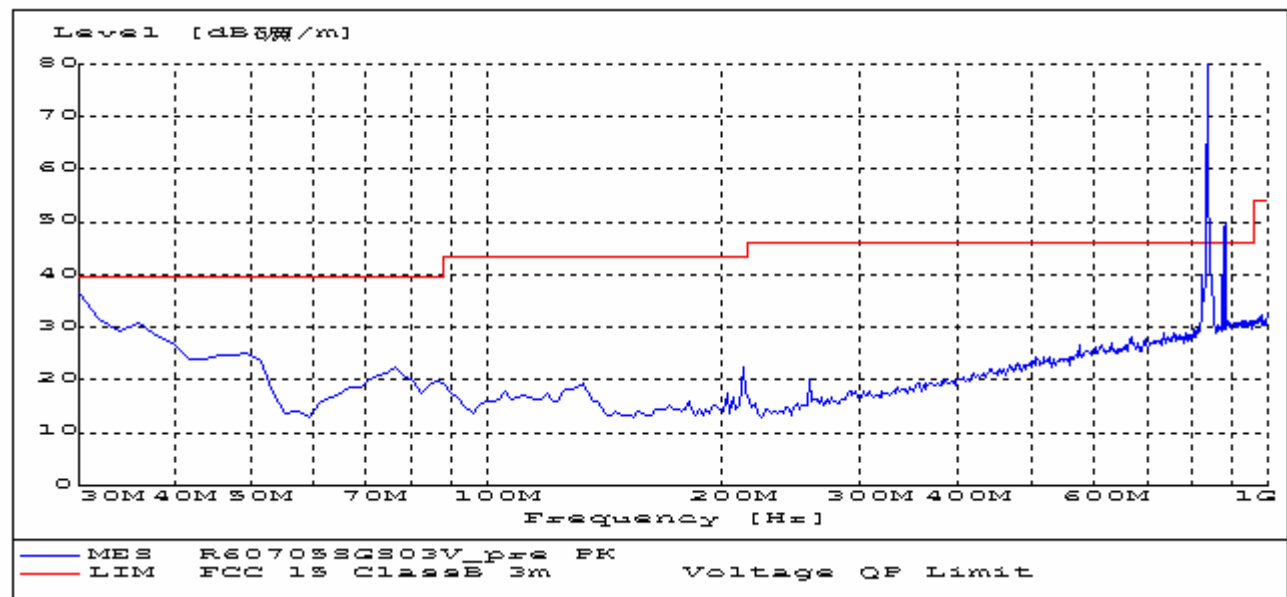
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GSM850 dedicated: (test with the adapter of Leader and earphone)

Horizontal:



Vertical:



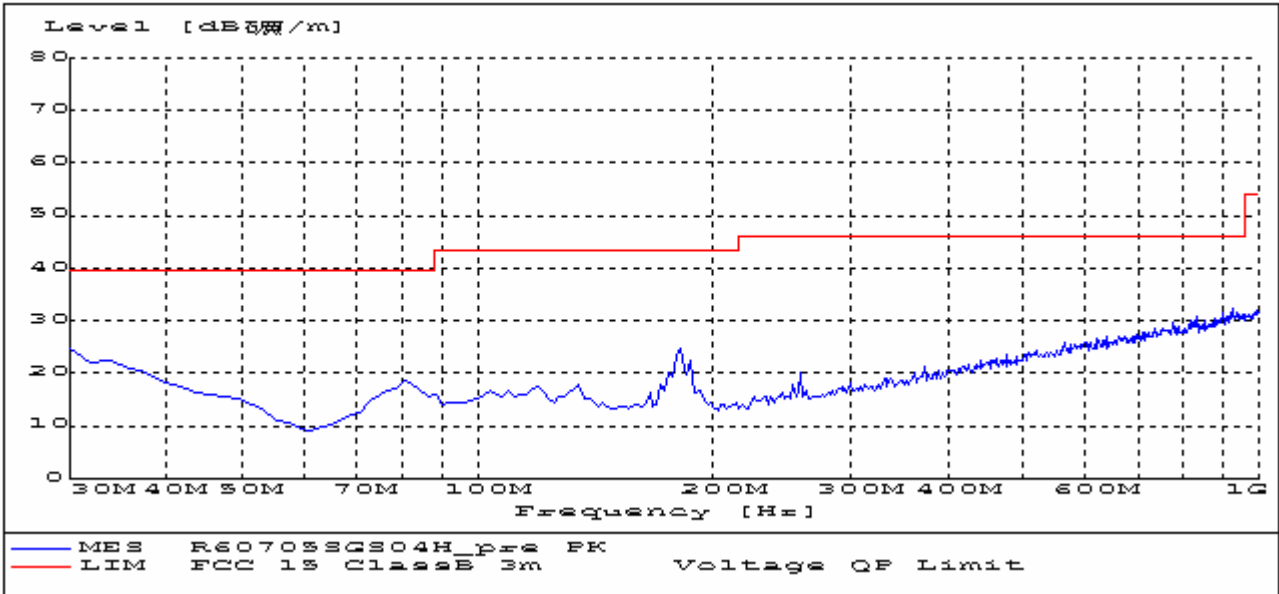
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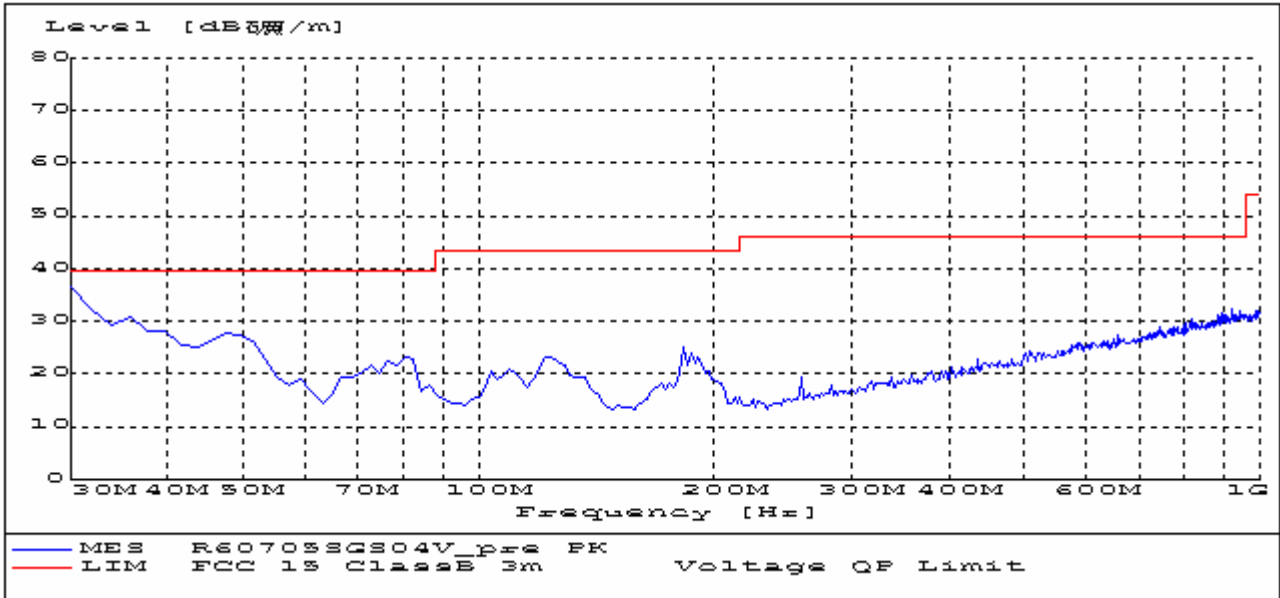
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GSM1900 dedicated: (test with the adapter of Leader)



Vertical:



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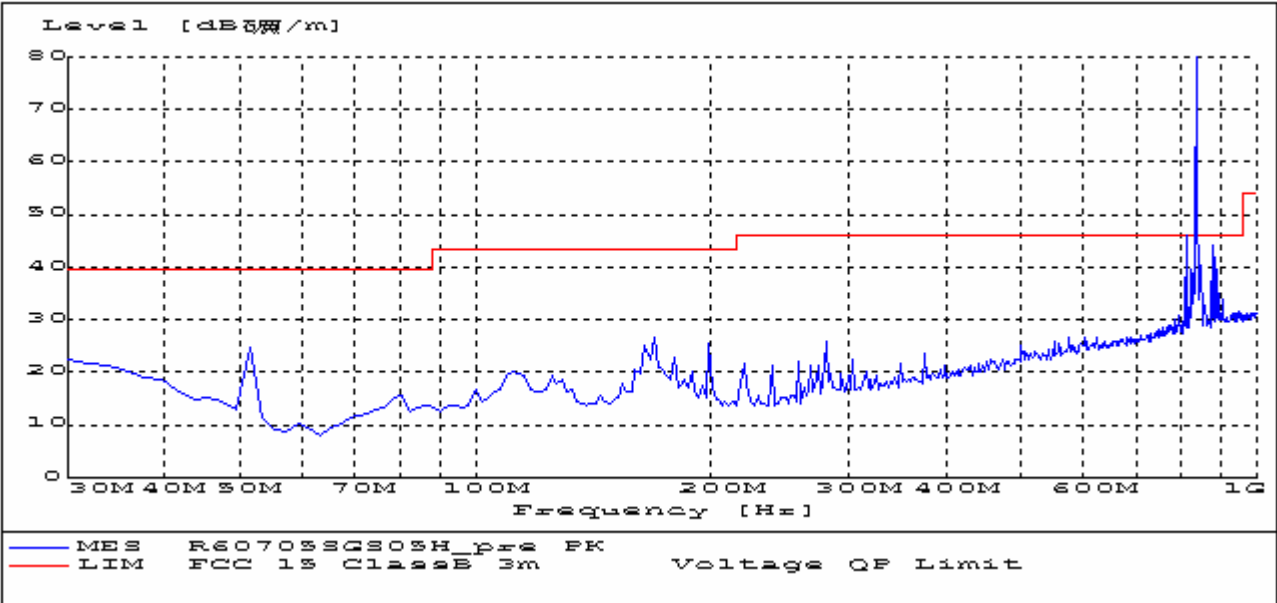
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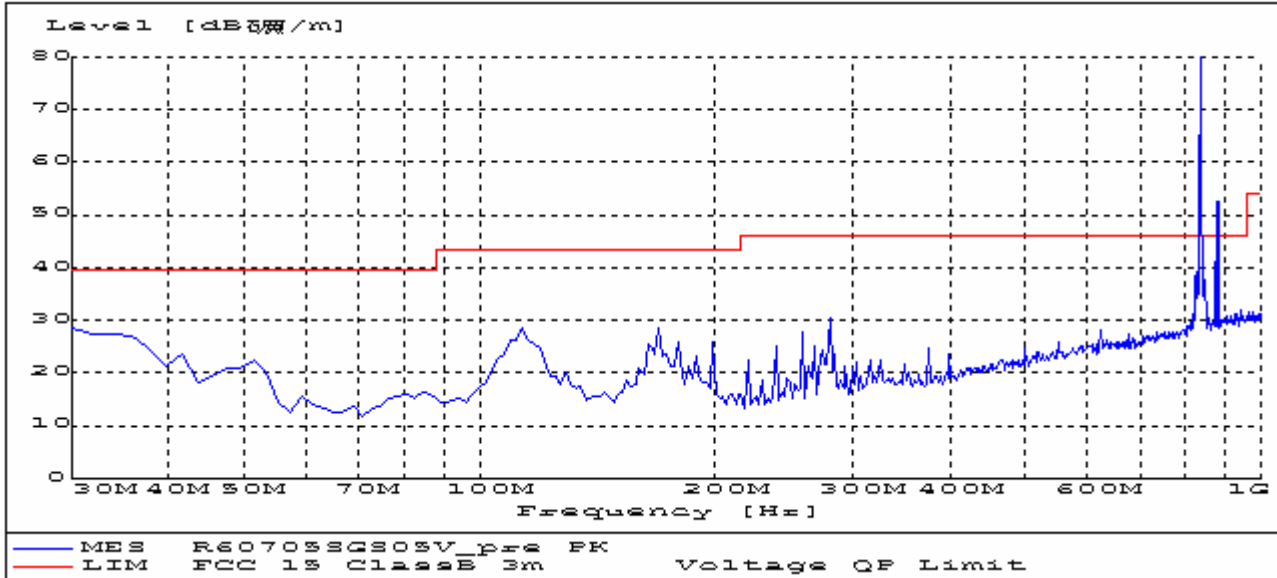
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GSM850 dedicated: (test with the adapter of tenpao and data cable 01)

Horizontal:



Vertical:



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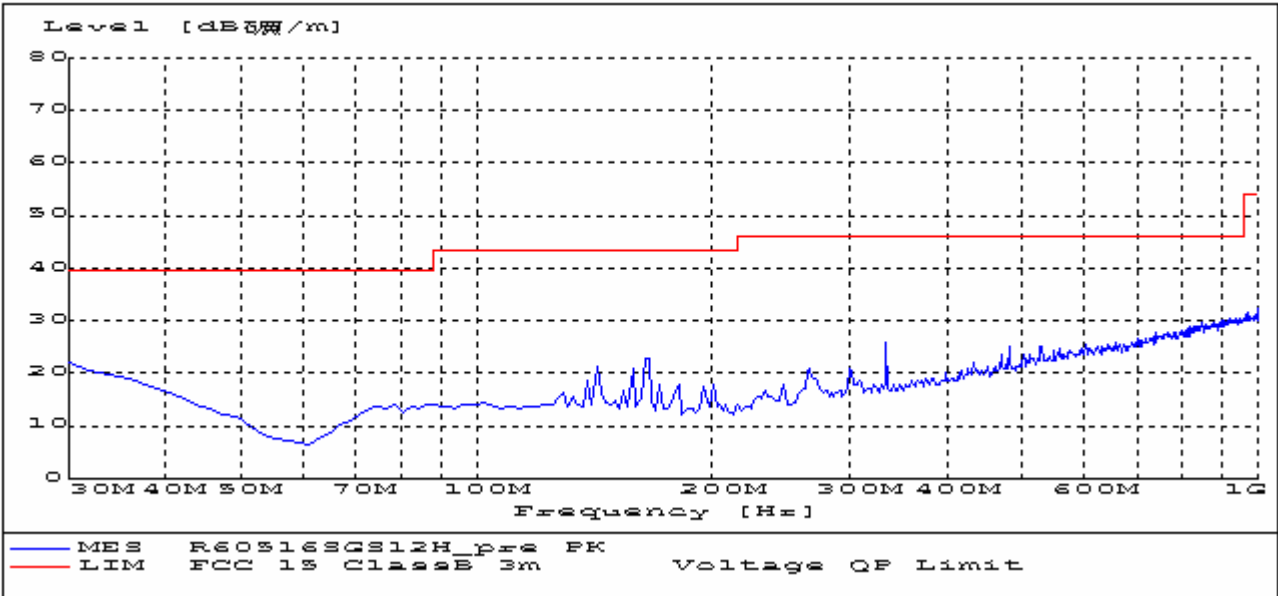
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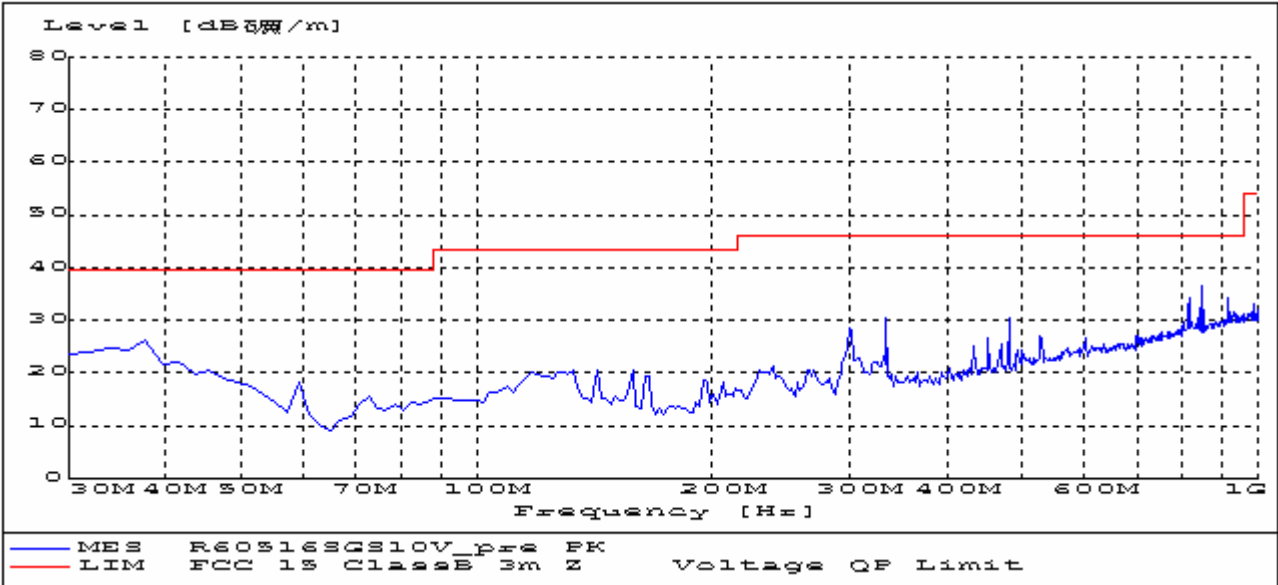
PCS1900 dedicated: (test with the adapter of tenpao and data cable01)

Horizontal:



V

Vertical:



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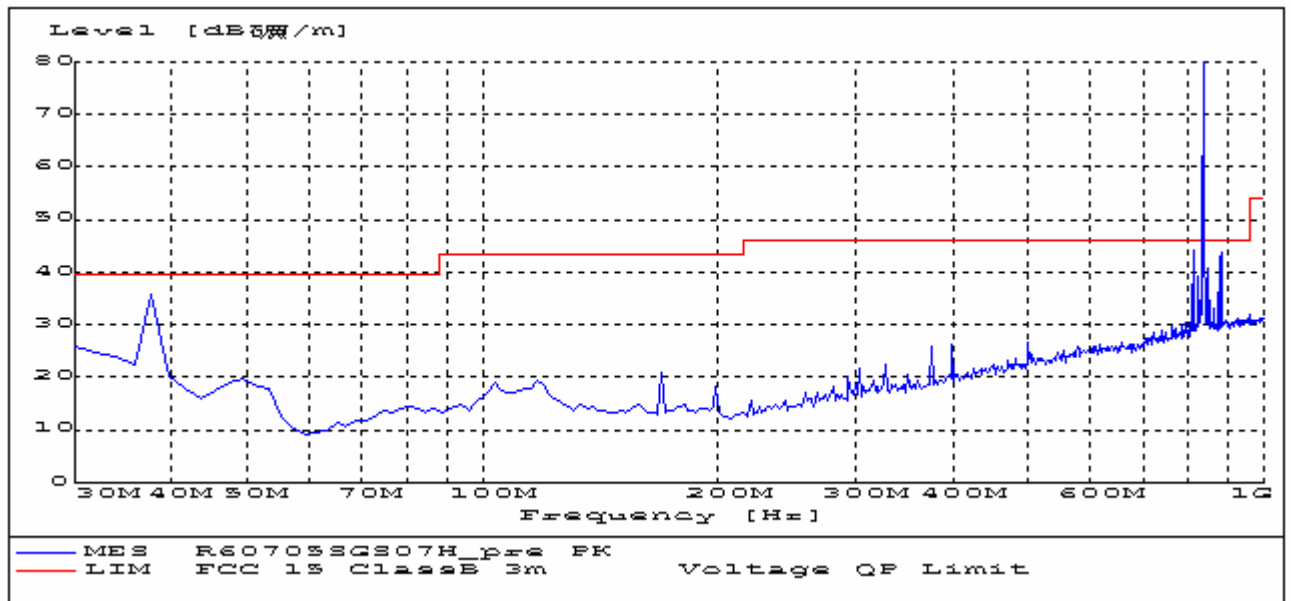
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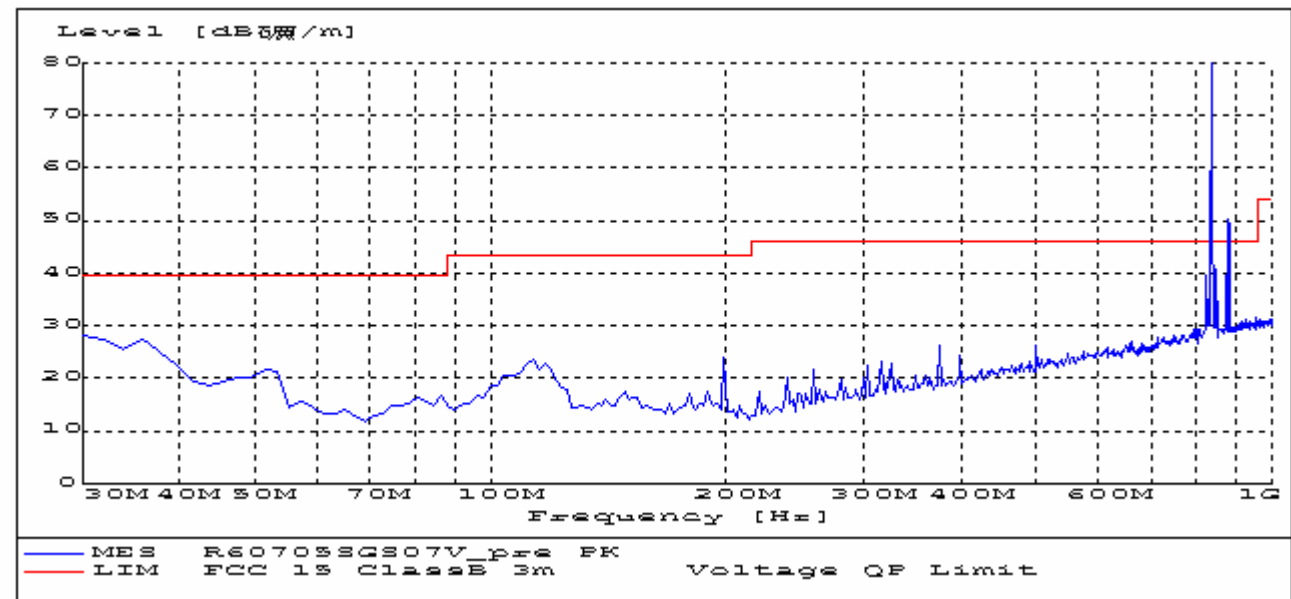
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GSM850 dedicated: (test with the adapter of tenpao and data cable02)

Horizontal:



Vertical:



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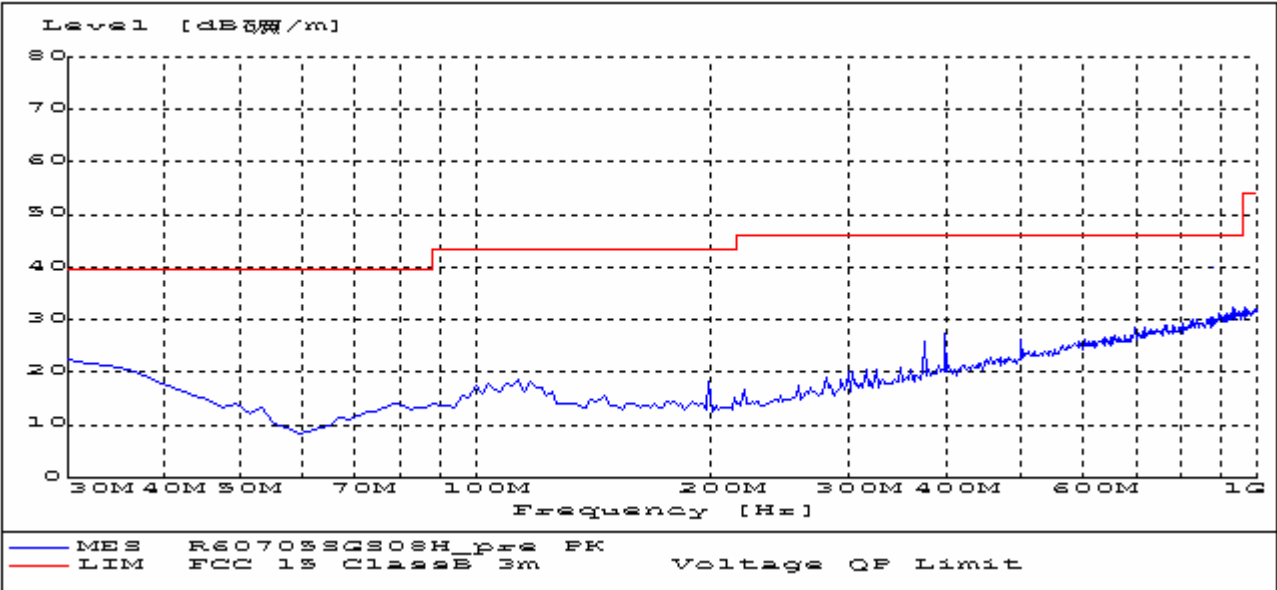
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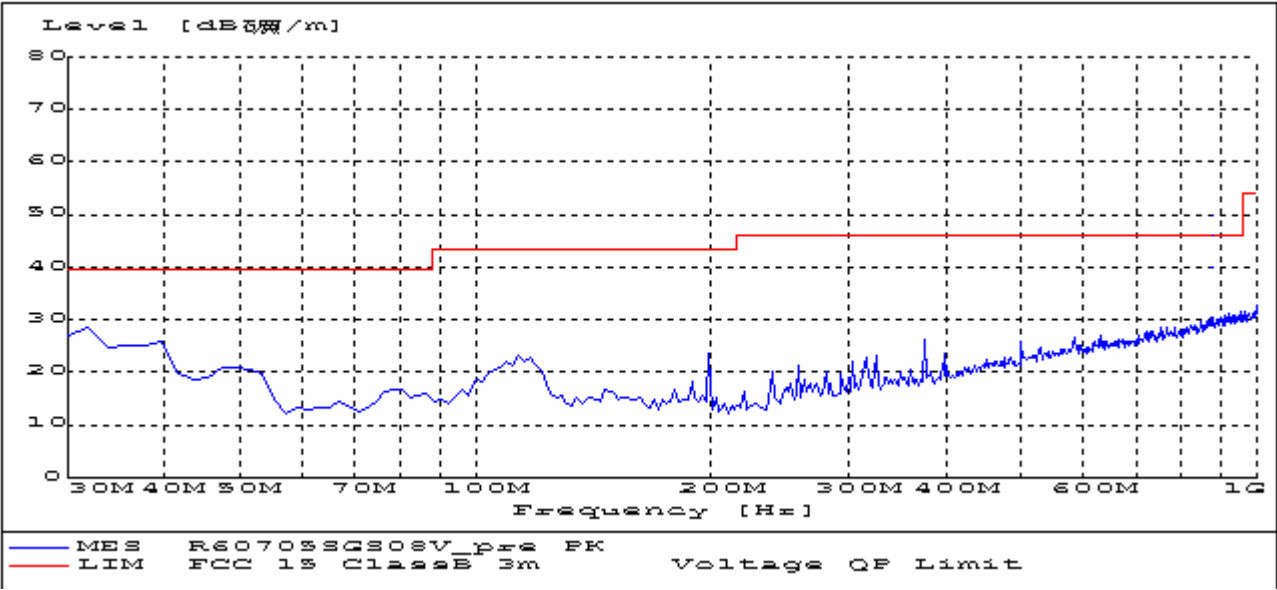
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PCS1900 dedicated: (test with the adapter of tenpao and data cable02)

Horizontal:



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:	10 July 2006
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:

EUT Operation: Test EUT is the in the allocated channel mode GSM850, PCS 1900 with headset, adapter and data cable, and we just choose the worst case (communicating with adapter and earphone) in this report.

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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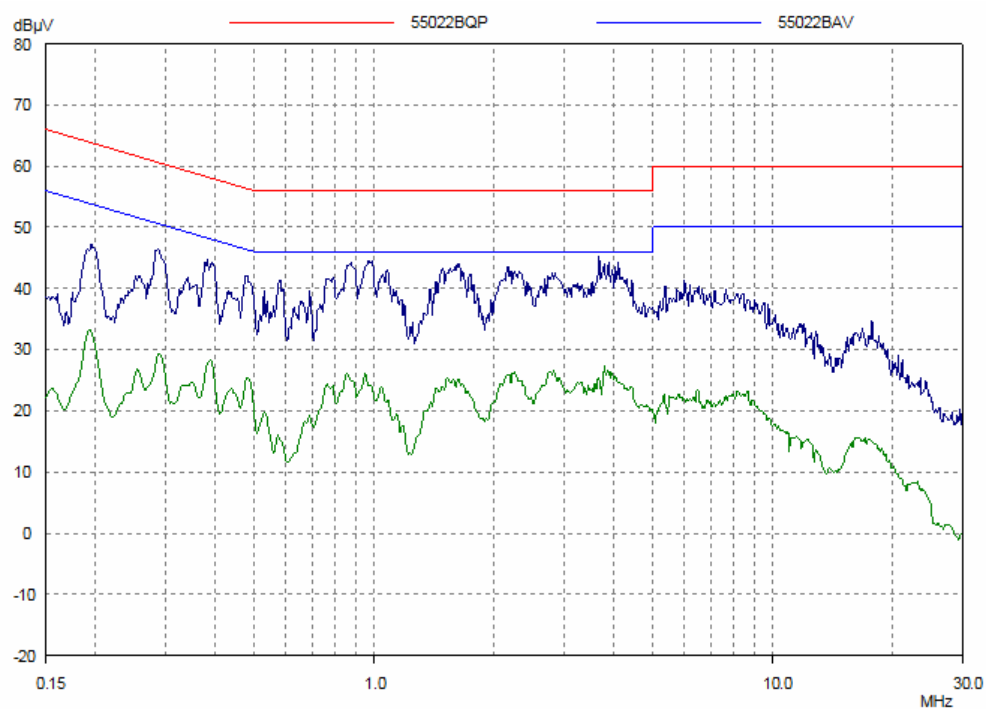
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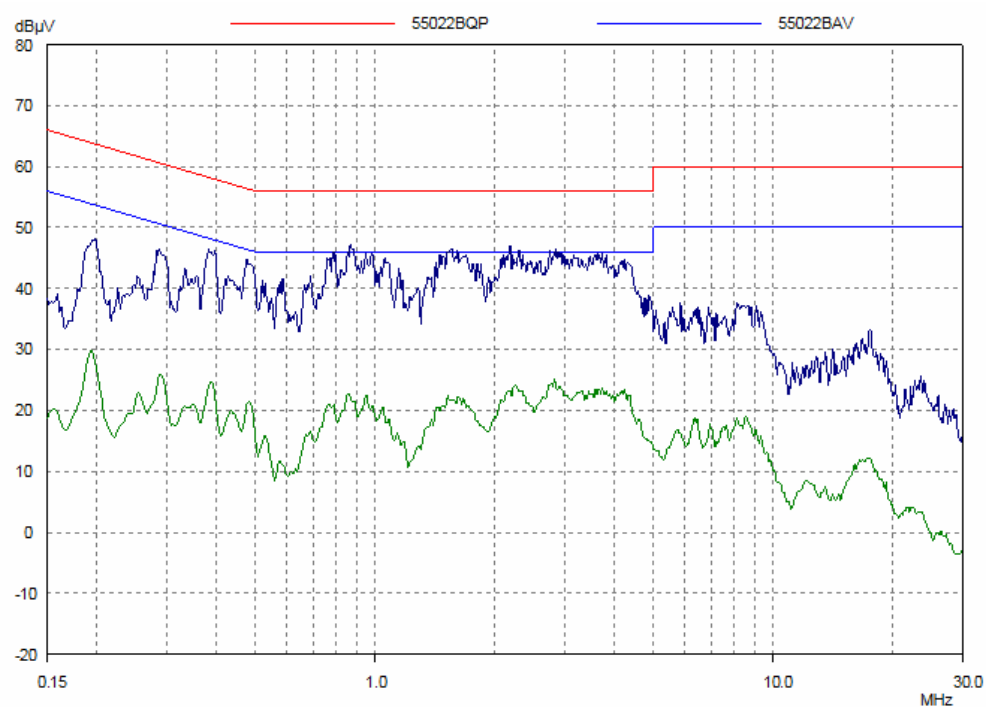
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Power Supply1:
GSM 850 dedicated, charging with adaptor and earphone.

L Line:



N Line:



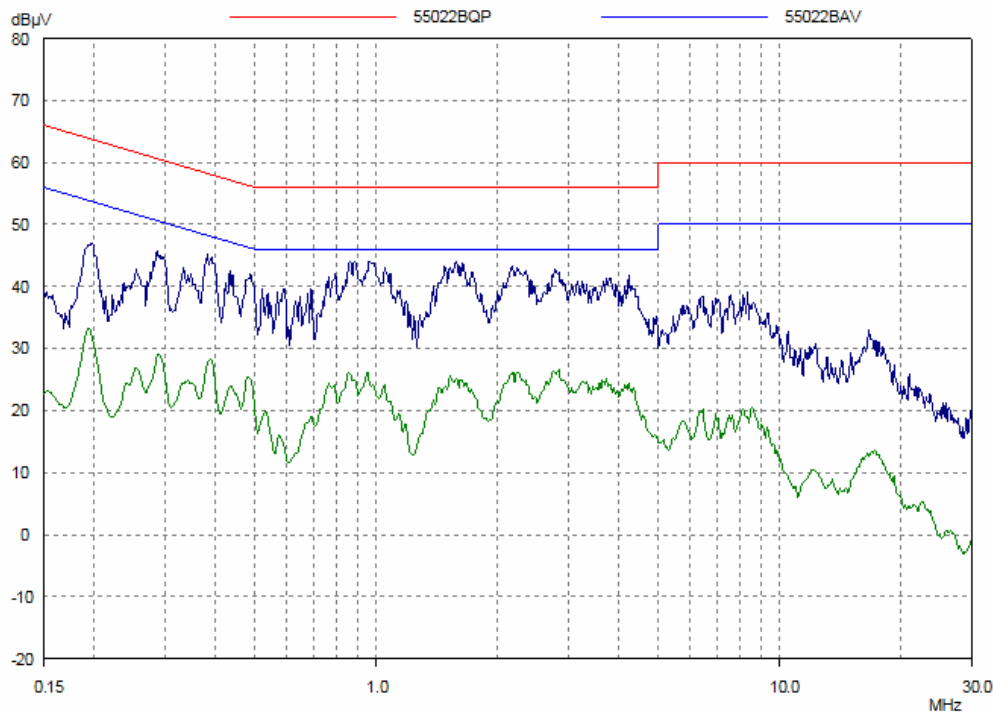
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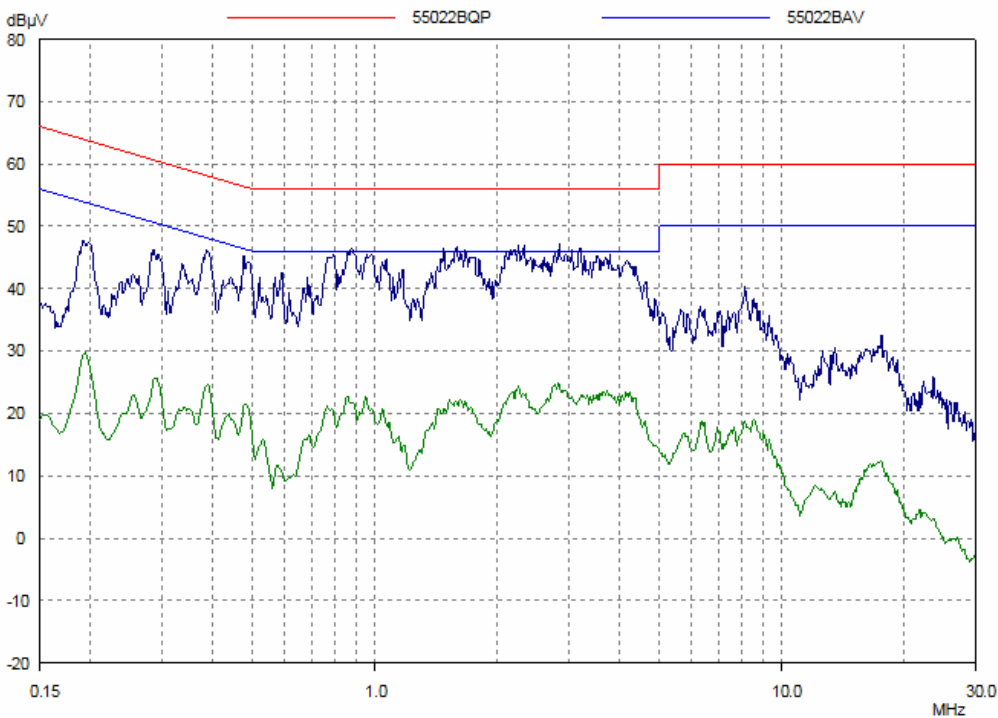
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PCS 1900 dedicated, charging with adaptor and earphone:
L Line:



N Line:



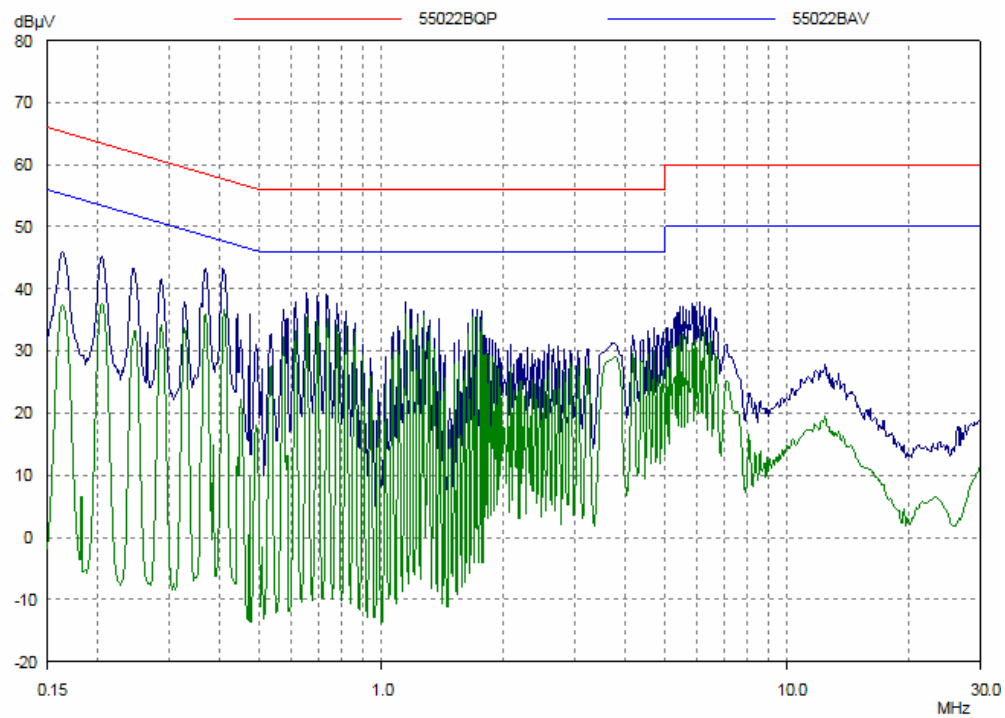
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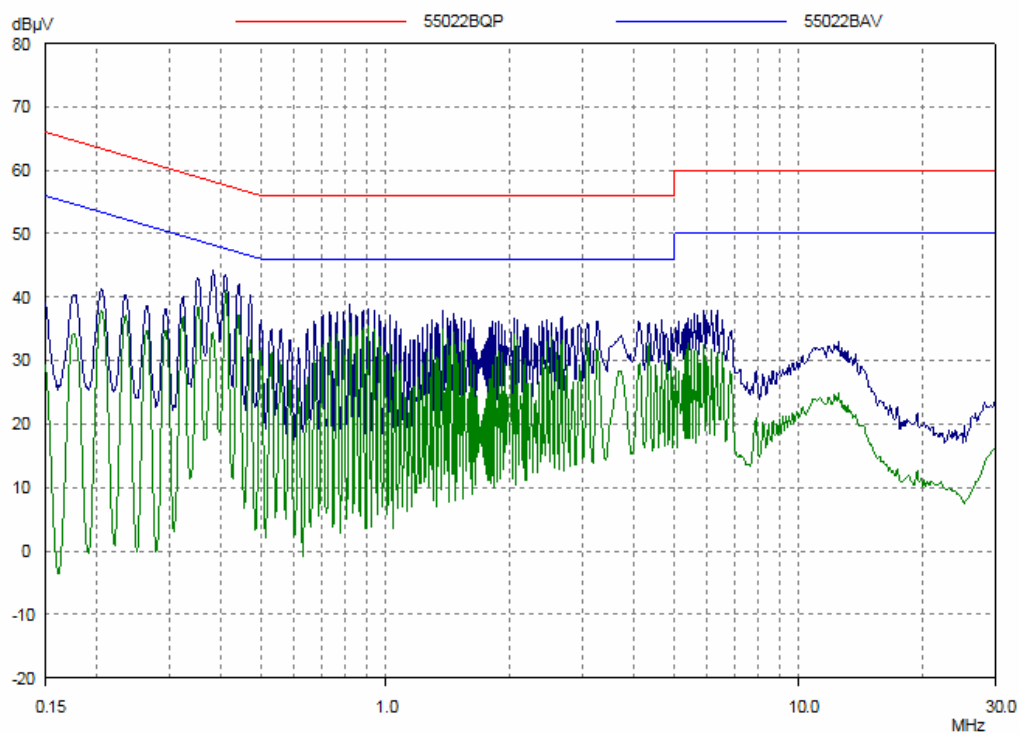
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Power Supply 2:
GSM 850 dedicated, charging with adaptor and earphone:
L Line:



N line:



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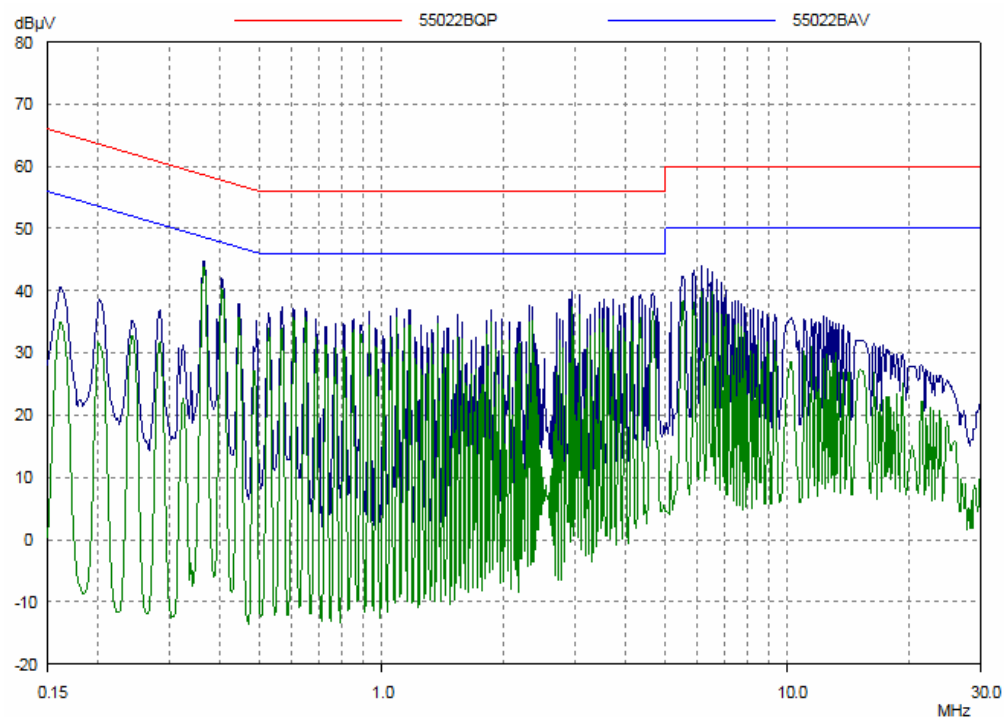
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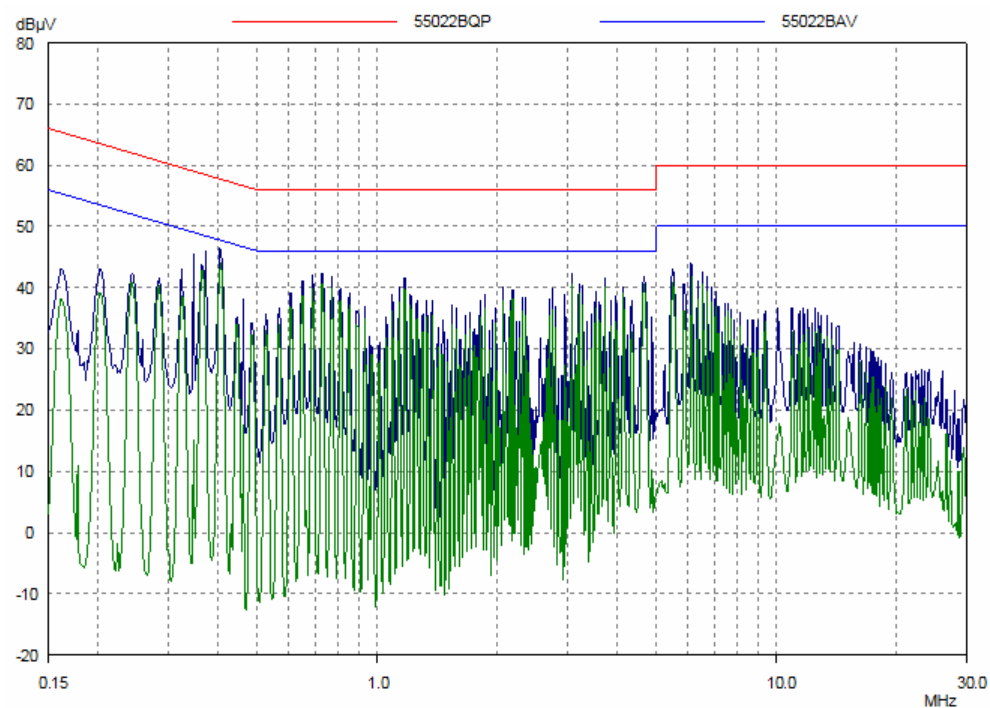
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PCS 1900 dedicated, charging with adaptor:

L Line:



N Line:



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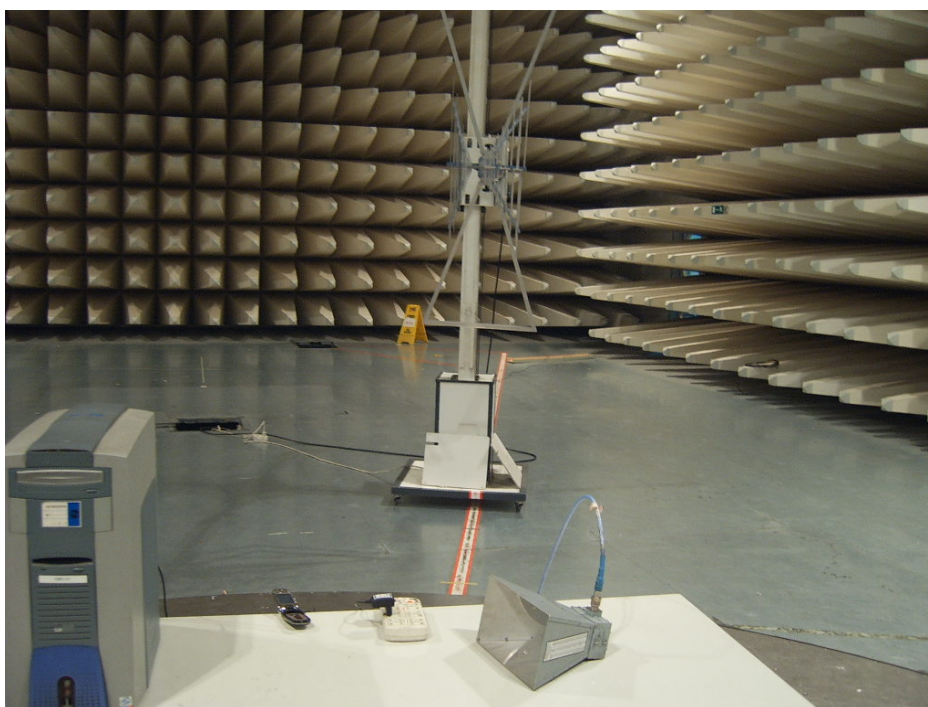
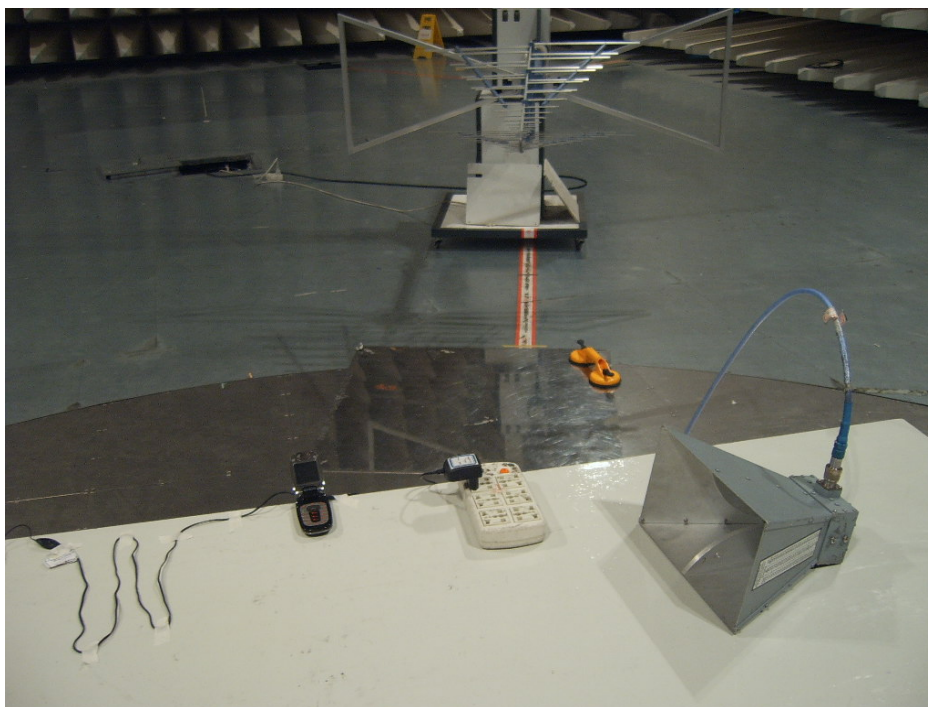
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7 Photographs

7.1 Radiated Emission Test Setup



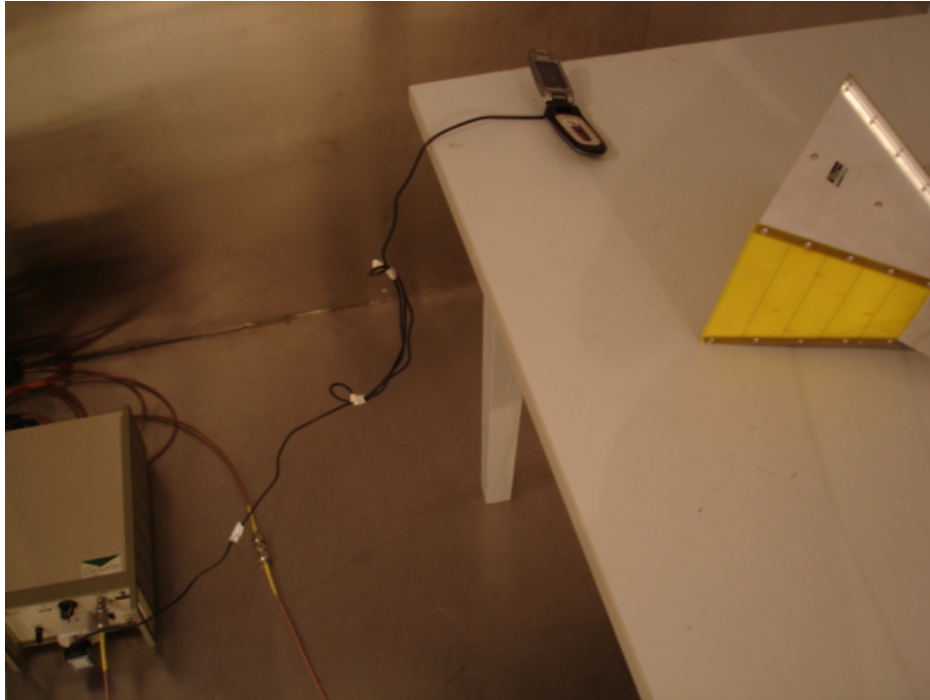
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7.2 Conducted Emission Test Setup



7.3 EUT Constructional Details



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