

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

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## ***FCC TEST REPORT(DOC)***

**Application No.:** SHEMO060400243IT

**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.:** C61Ba

**Marketing Name:** OT-E100a

**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:** 6 April 2006

**Date of Test:** 6 April 2006 to 19 October 2006

**Date of Issue:** 23 October 2006

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

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

**Note:** OT-E100a has seven power adaptors (ASTECC: 3DS09371AGAA, 3DS09371AAAA , LEADER: 3DS09371AGAA, 3DS09371AAAA , Primax: 3DS07848AAAA, Tenpao: 3DS10628AGAA, SDS10628AHAA) and one earphone. The client declared the adapters of Tenpao: 3DS10628AGAA, SDS10628AHAA are the same in electric diagram, so we just have 3DS10628AGAA tested.

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## 4 General Information

### 4.1 Client Information

Applicant: T&A Mobile Phones  
Address of Applicant: 3/F, B2 BLOCK, DIGITAL TECHNOLOGY YARD, GAOXIN  
NAN QI ROAD, NAN SHAN DISTRICT, SHENZHEN,  
GUANGDONG, P.R.CHINA

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

EUT Name: GSM Mobile Phone  
Model No.: C61Ba  
Marketing Name: OT-E100a  
Brand Name: Not supplied by client  
Serial No.: Not supplied by client

### 4.3 Details of E.U.T.

Power Supply 01: AC to DC charger(Model number: 3DS09371AGAA Input: 100V-127V~, 50/60Hz 0.15A Output:DC 4.5V, 0.35A)  
P/N: 3DS09371AGAA  
Manufactures: Astec

Power Cord 01: 2 m

Power Supply 02: AC to DC charger(Model number: 3DS09371AGAA Input: 100V-127V~, 0.3A 50/60Hz Output:DC 4.5V, 0.35A)  
P/N: 3DS09371AGAA  
Manufactures: Leader

Power Cord 02: 2.05 m

Power Supply03: AC to DC charger (Model NO: 3DS09371AAAA Input: AC 220V-240V~, 50/60Hz 0.3A Output: DC 4.5V, 0.35A)  
Manufactures: Astec

Power Cord03: 2m

Power Supply04: AC to DC charger (Model NO: 3DS09371AAAA Input: AC 220V-240V~, 50/60Hz 0.15A Output:DC 4.5V, 0.35A)  
Manufactures: Leader

Power Cord04: 2.06m

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Power Supply05: DC to DC charger (Model NO: 3DS07848AAAA Input: DC 12V/24V Output: DC 4.5V)  
Manufactures: Primax

Power Cord05: 2.64m

Power Supply06: AC to DC charger (Model NO: 3DS10628AGAA Input: AC 100V-240V~, 50/60Hz 100mA Output: DC 4.5V, 0.35A)  
Manufactures: Tenpao

Power Cord06: 2m

Power Supply07: AC to DC charger (Model NO: 3DS10628AHAA Input: AC 100V-240V~, 50/60Hz 100mA Output: DC 4.5V, 0.35A)  
Manufactures: Tenpao

Power Cord07: 2m

Headset P/N: 3DS07855AAAA  
Manufacturers: Merry

Battey DC 3.7V / 650mAh  
Manufacturers: BYD

#### 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

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## 4.6 Test Location

The test of 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

The test of 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

## 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, 2006.

### **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

<b>Radiated Emission Test in Chamber</b>						
<b>CFR 47 part 15: 2005</b>						
<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date</b>	<b>Cal. Date</b>
1	10*12*6.5m SAC	Fronkonia	NA	NA	2004.07.28	2005.07.27
1	HORN ANTENNA	R&S	HF 906	100023	2005.07.24	2006.07.23
2	BROADBAND ANTENNA	R&S	HL 562	100019	2005.10.10	2006.10.09
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2005.08.13	2006.08.13
4	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2005.09.01	2006.08.31
<b>Conducted Emission</b>						
<b>CFR 47 part 15: 2005</b>						
<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date</b>	<b>Cal. Date</b>
1	EMI TEST RECEIVER	R&S	ESCS 30	100070	2005.08.28	2006.08.27
2	ARTIFICIAL MAINS NETWORK	R&S	ESH2-Z5	100030	2005.09.19	2006.09.18
3	2 X 2 WIRE ISN	R&S	ENY 22	100052	2005.09.06	2006.09.05
4	FOUR WIRE ISN	R&S	ENY 41	100064	2005.09.06	2006.09.05
5	RF CURRENT PROBE	FCC	FCC-F-52	129	2005.08.22	2006.08.21
6	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2005.09.01	2006.08.31
<b>General Equipment</b>						
<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date</b>	<b>Cal. Date</b>
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:	11 April 2006 to 19 October 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)

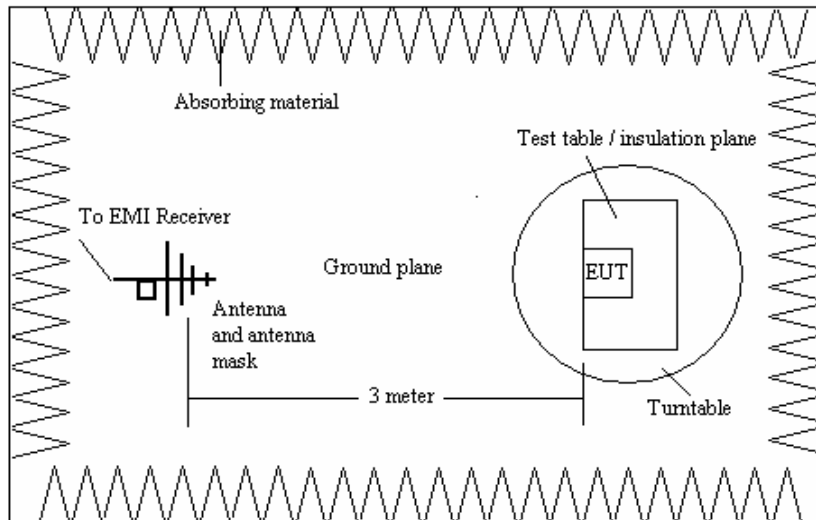
#### 6.1.1 E.U.T. Operation

Operating Environment:

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

EUT Operation: EUT allocated channel mode Charging, GSM850, PCS 1900 with headset.

#### 6.1.2 Test setup:





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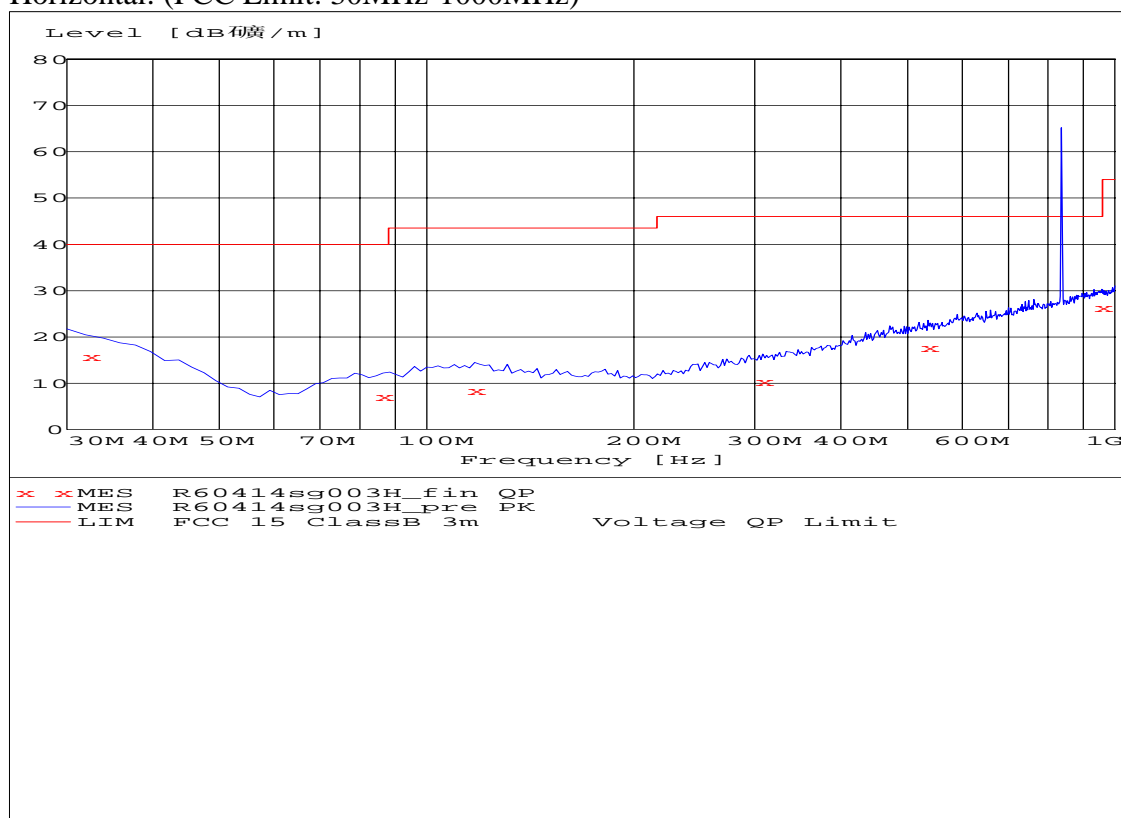
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## 6.1.3 Test Result:

GSM 850 connected: (test OT-E100a with 3DS09371AGAA of Leader power adaptor )

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



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	

32.424757	15.76	100.0	180.00	HORIZONTAL
86.372745	7.19	400.0	0.00	HORIZONTAL
117.474950	8.51	200.0	90.00	HORIZONTAL
307.975952	10.27	400.0	0.00	HORIZONTAL
535.410822	17.61	200.0	270.00	HORIZONTAL
957.234469	26.29	400.0	270.00	HORIZONTAL

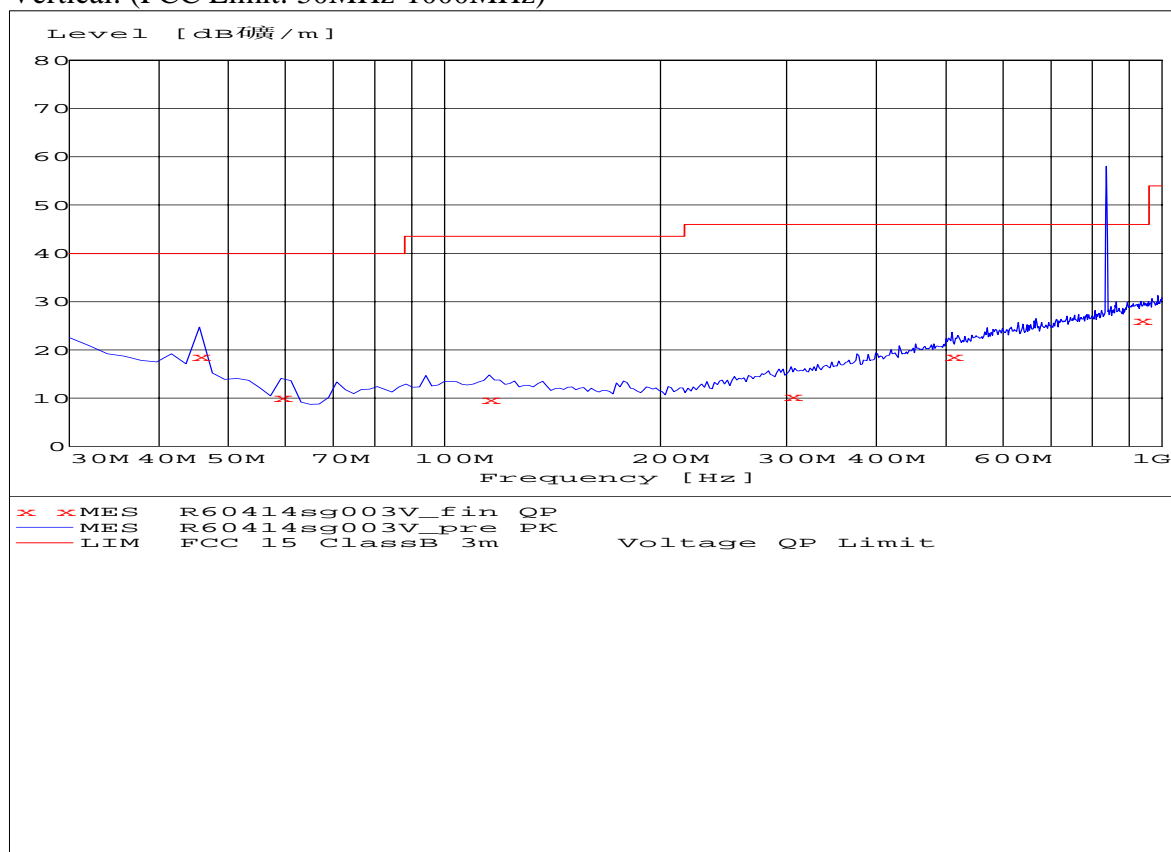
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Vertical: (FCC Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBμV/m	cm	deg	

45.551102	18.74	100.0	0.00	VERTICAL
59.158317	10.08	100.0	90.00	VERTICAL
115.531062	9.80	200.0	0.00	VERTICAL
304.088176	10.47	100.0	270.00	VERTICAL
510.140281	18.66	100.0	270.00	VERTICAL
933.907816	26.14	200.0	180.00	VERTICAL

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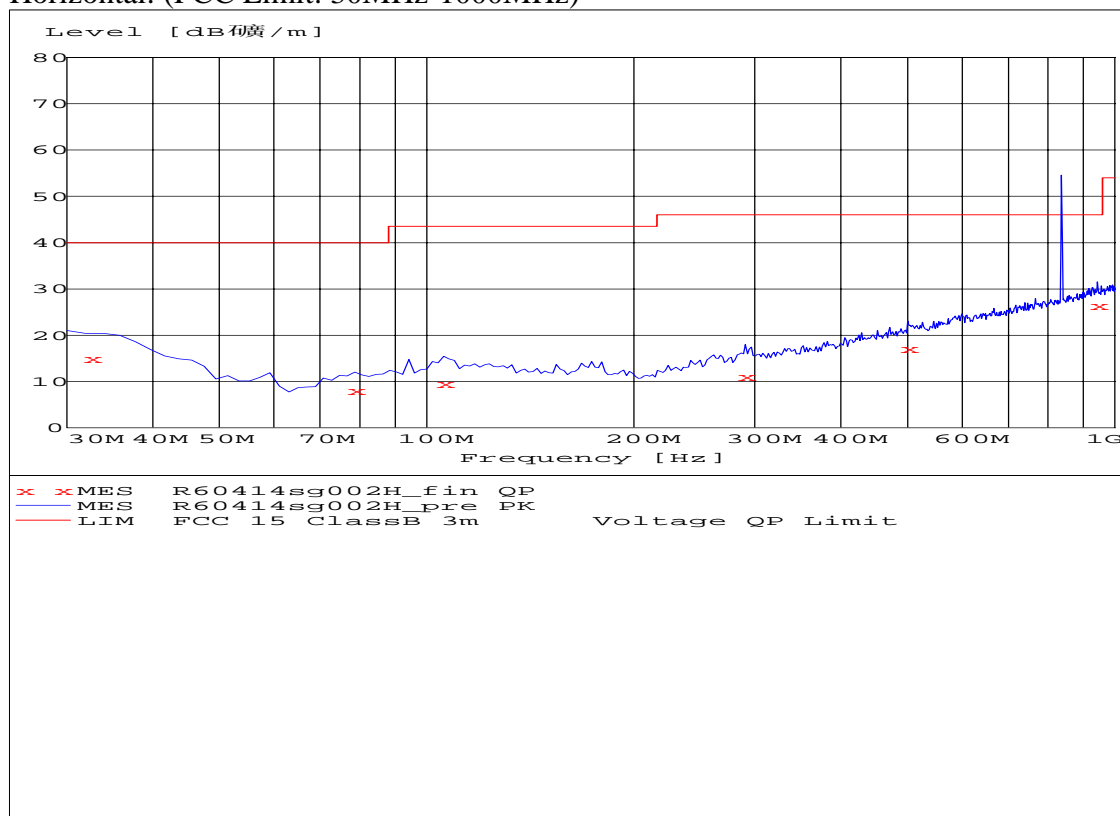
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GSM 850 connected: (test OT-E100a with 3DS09371AGAA of Astec power adaptor )

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



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	

32.524457	15.02	100.0	180.00	HORIZONTAL
78.597194	7.98	400.0	0.00	HORIZONTAL
105.811623	9.44	300.0	90.00	HORIZONTAL
290.480962	10.97	100.0	0.00	HORIZONTAL
500.420842	17.09	200.0	270.00	HORIZONTAL
943.627255	26.51	400.0	90.00	HORIZONTAL

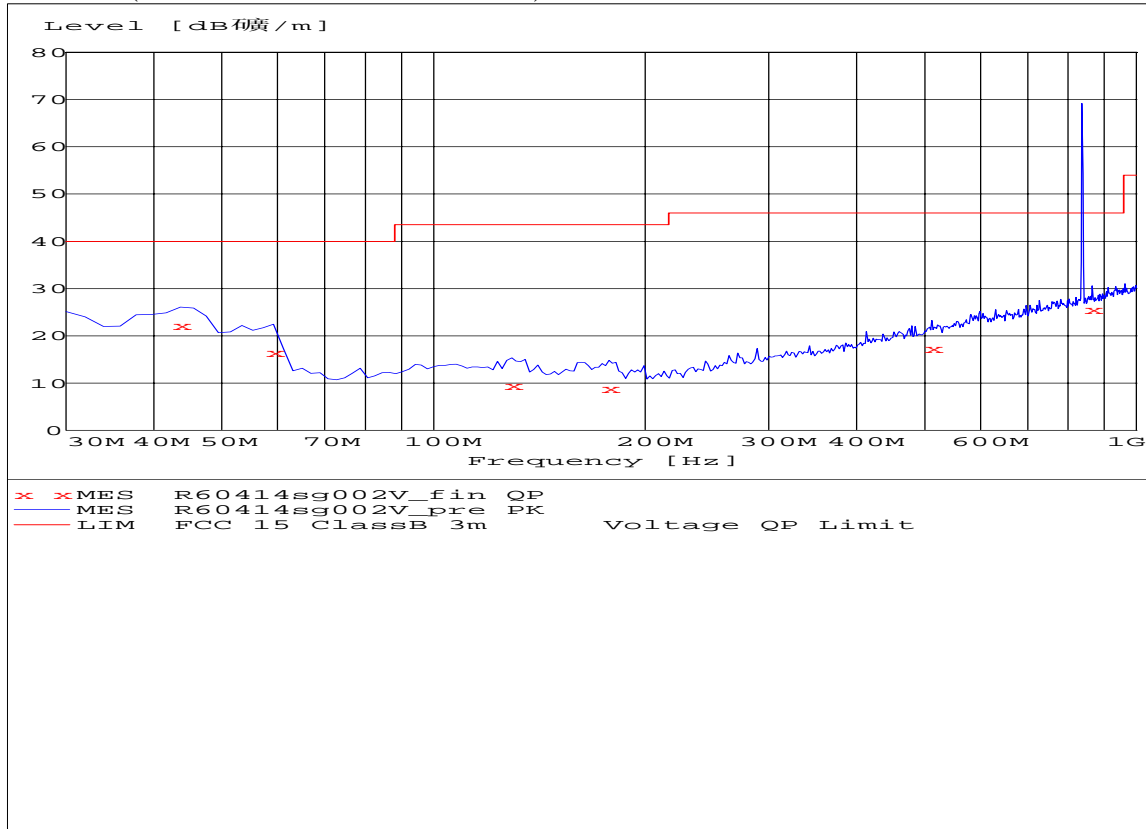
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## Vertical: (FCC Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dB $\mu$ V/m	cm	deg	

43.607214	22.05	100.0	0.00	VERTICAL
59.158317	16.43	200.0	180.00	VERTICAL
129.138277	9.36	100.0	270.00	VERTICAL
177.735471	8.85	100.0	270.00	VERTICAL
512.084168	17.29	100.0	90.00	VERTICAL
865.871743	25.57	400.0	0.00	VERTICAL

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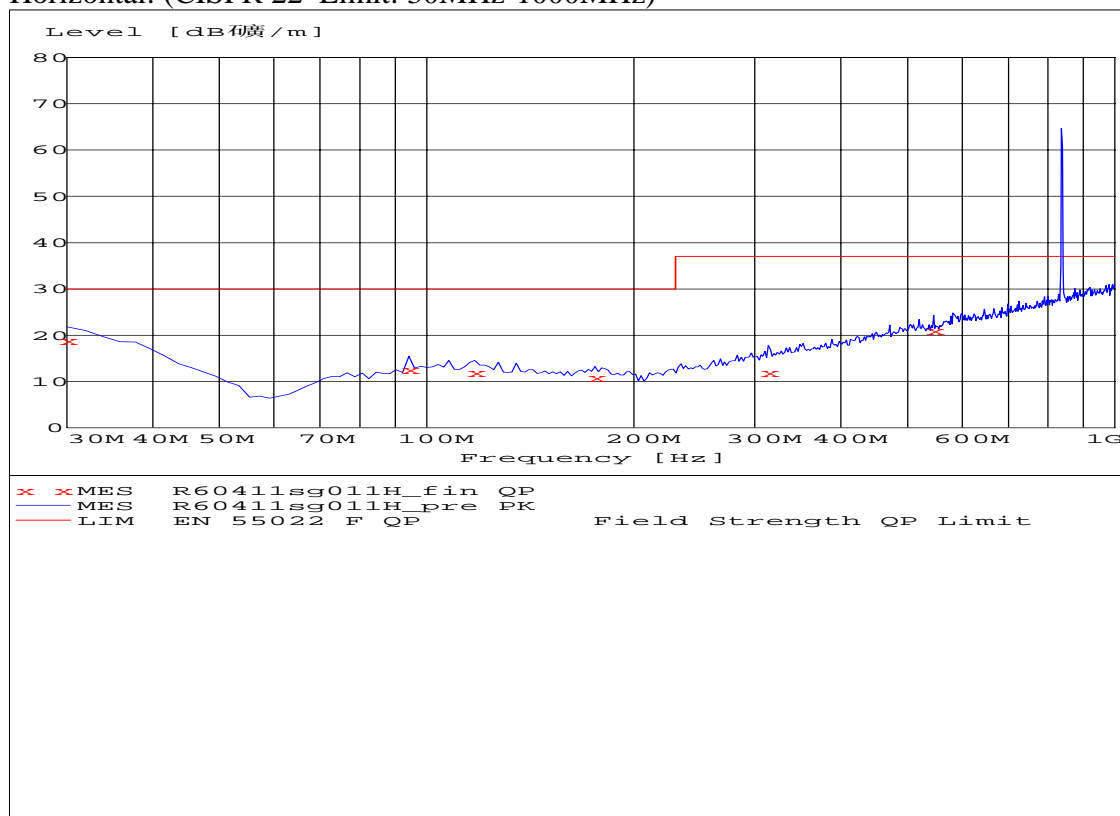
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GSM 850 connected: (test OT-E100a with 3DS09371AAAA of Astec power adaptor )

Horizontal: (CISPR 22 Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dB $\mu$ V/m	cm	deg	

30.000000	18.80	300.0	90.00	HORIZONTAL
94.148297	12.53	300.0	90.00	HORIZONTAL
117.474950	11.85	200.0	180.00	HORIZONTAL
175.791583	10.90	300.0	180.00	HORIZONTAL
313.807615	11.96	400.0	90.00	HORIZONTAL
545.130261	21.03	300.0	180.00	HORIZONTAL

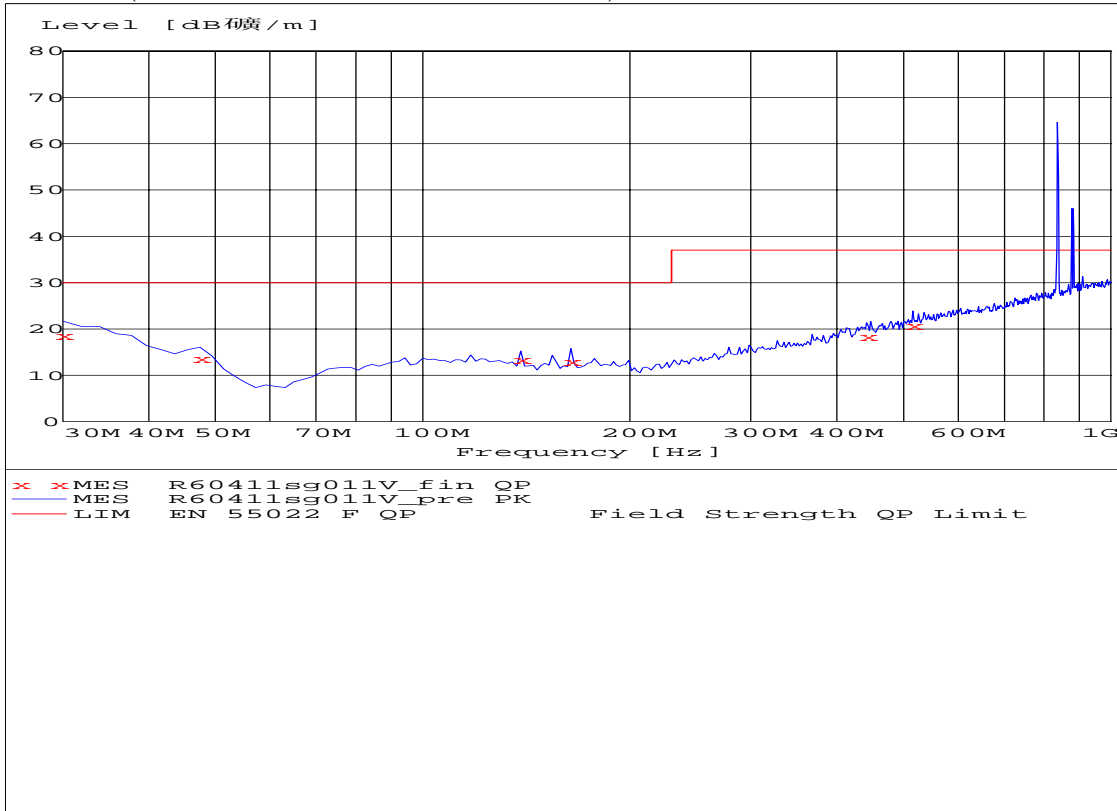
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## Vertical: (CISPR 22 Limit: 30MHz-1000MHz)



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation
------------------	-----------------	--------------	----------------	--------------

30.000000	18.64	100.0	0.00	VERTICAL
47.494990	13.55	100.0	180.00	VERTICAL
138.857715	13.26	200.0	0.00	VERTICAL
164.128257	12.87	100.0	90.00	VERTICAL
442.104208	18.43	400.0	0.00	VERTICAL
515.971944	20.63	200.0	90.00	VERTICAL

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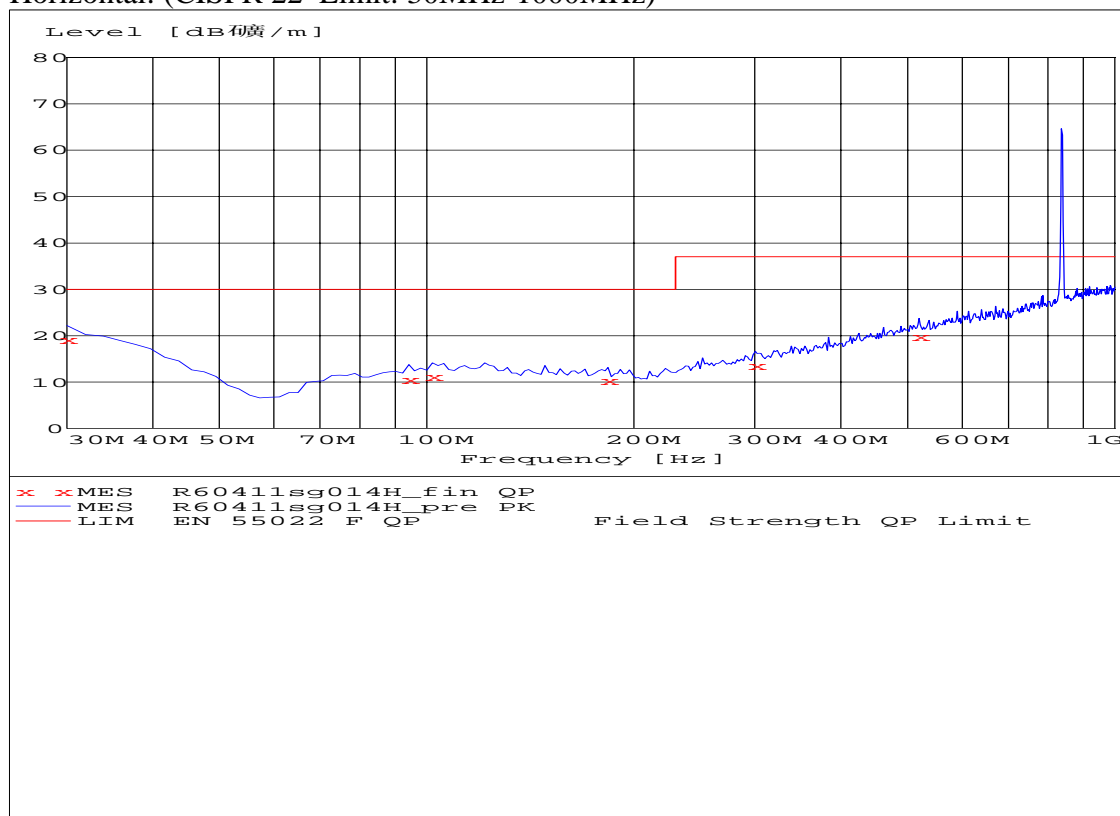
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GSM 850 connected: (test OT-E100a with 3DS09371AAAA of Leader power adaptor )

Horizontal: (CISPR 22 Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	

30.000000	19.17	300.0	270.00	HORIZONTAL
94.148297	10.57	400.0	0.00	HORIZONTAL
101.923848	11.11	300.0	90.00	HORIZONTAL
183.567134	10.31	400.0	90.00	HORIZONTAL
300.200401	13.53	300.0	270.00	HORIZONTAL
519.859719	19.75	400.0	1 80.00	HORIZONTAL

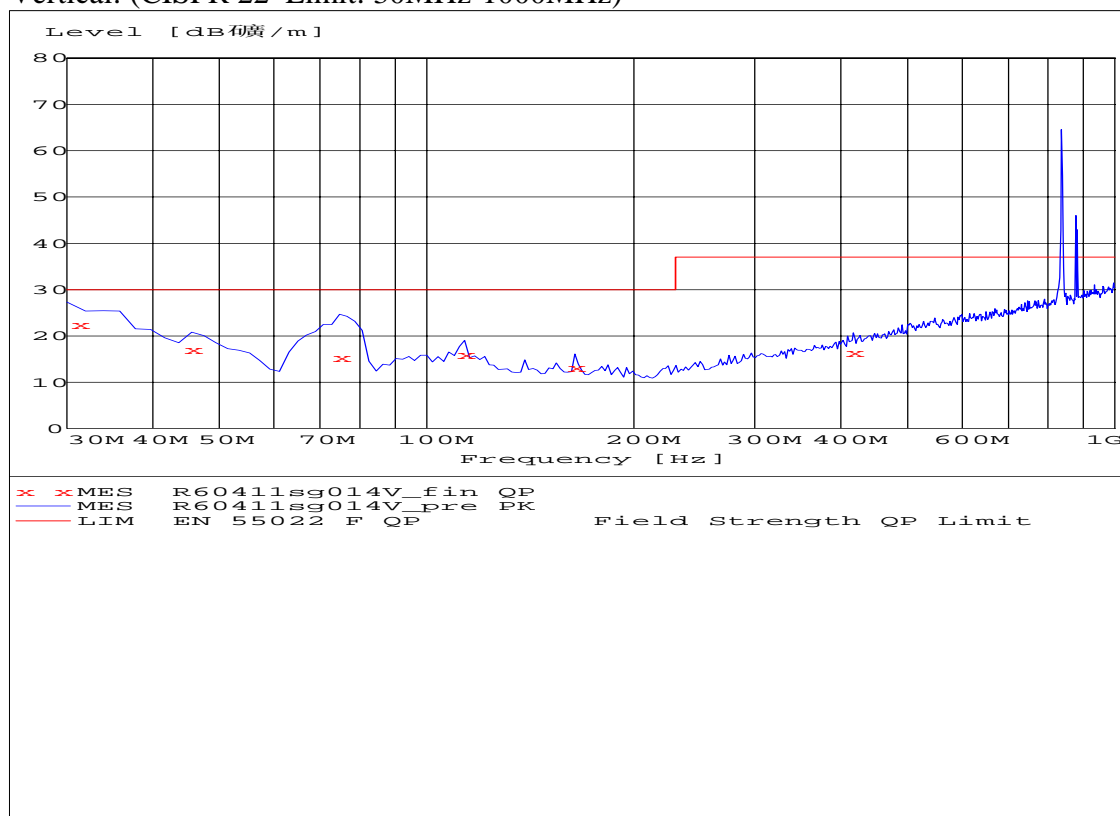
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## Vertical: (CISPR 22 Limit: 30MHz-1000MHz)



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation
------------------	-----------------	--------------	----------------	--------------

31.222445	22.30	100.0	90.00	VERTICAL
45.551102	16.97	100.0	180.00	VERTICAL
74.909820	15.21	200.0	270.00	VERTICAL
113.587174	16.03	100.0	90.00	VERTICAL
164.128257	13.21	100.0	90.00	VERTICAL
416.833667	16.46	400.0	90.00	VERTICAL



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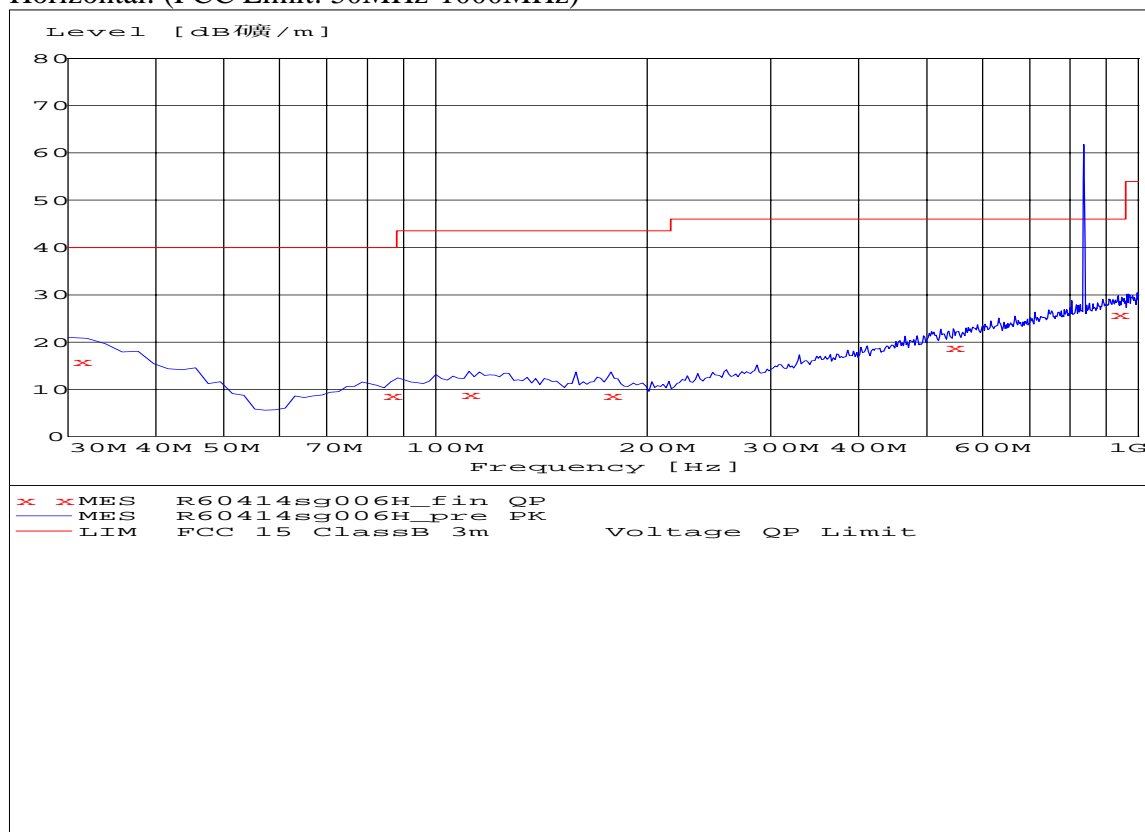
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GSM 850 connected: (test OT-E100a with 3DS07848AAAA of Primax power adaptor DC 12V)

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



Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation
31.247245	15.98	100.0	180.00	HORIZONTAL
86.372745	8.59	400.0	0.00	HORIZONTAL
111.643287	8.82	300.0	90.00	HORIZONTAL
177.735471	8.70	100.0	0.00	HORIZONTAL
545.130261	18.81	200.0	270.00	HORIZONTAL
935.851703	25.81	400.0	0.00	HORIZONTAL

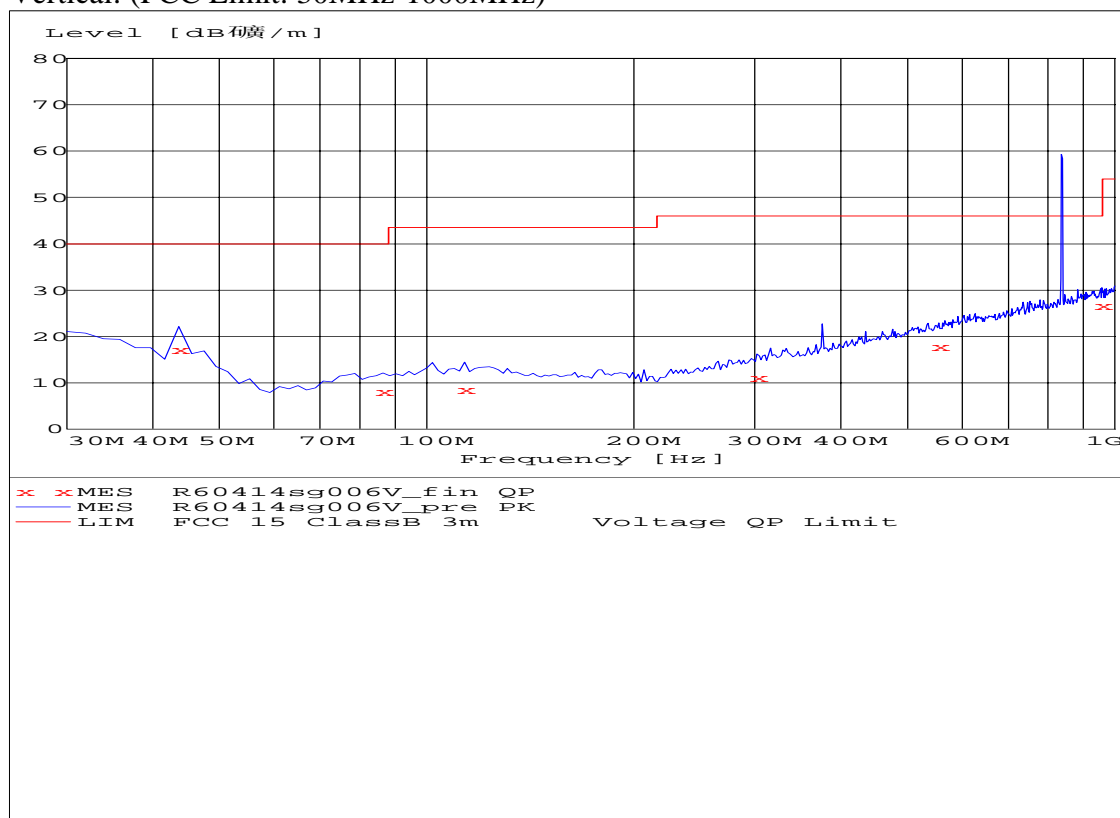
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## Vertical: (FCC Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	

43.607214	17.10	200.0	0.00	VERTICAL
86.372745	8.12	200.0	180.00	VERTICAL
113.587174	8.50	100.0	270.00	VERTICAL
302.144289	11.22	100.0	90.00	VERTICAL
554.849699	17.92	100.0	90.00	VERTICAL
957.234469	26.53	200.0	0.00	VERTICAL

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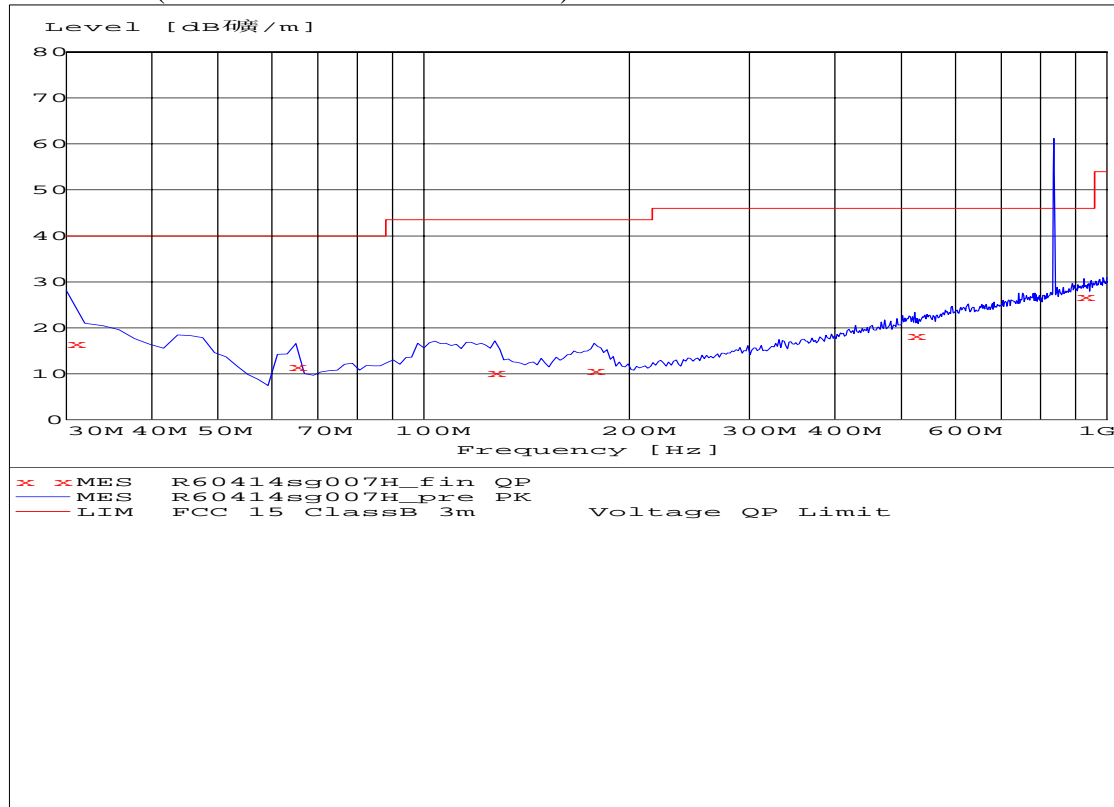
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GSM 850 connected: (test OT-E100a with 3DS07848AAAA of Primax power adaptor DC 24V)

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



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	

30.881764	16.52	100.0	180.00	HORIZONTAL
64.989980	11.58	400.0	0.00	HORIZONTAL
127.194389	10.16	300.0	0.00	HORIZONTAL
177.735471	10.65	300.0	270.00	HORIZONTAL
523.747495	18.40	200.0	270.00	HORIZONTAL
926.132265	26.74	400.0	90.00	HORIZONTAL

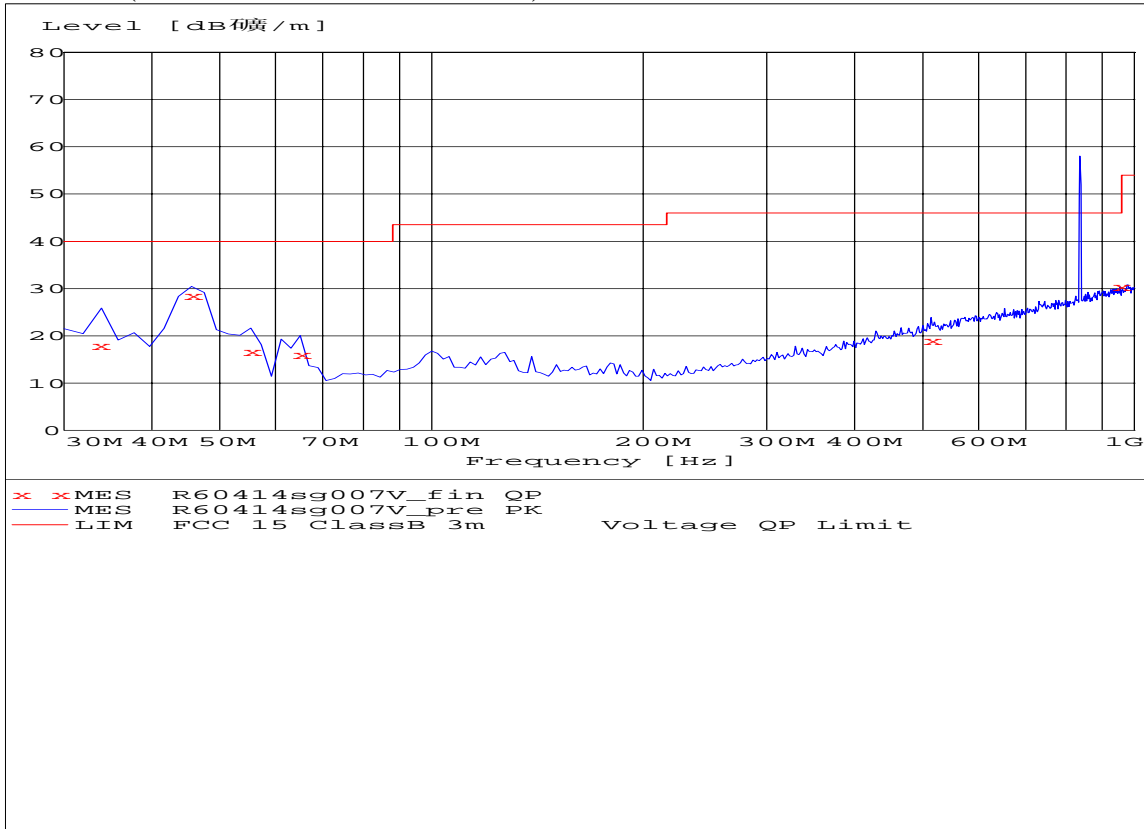
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## Vertical: (FCC Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dB $\mu$ V/m	cm	deg	

33.663327	17.94	100.0	0.00	VERTICAL
45.551102	28.45	100.0	0.00	VERTICAL
55.270541	16.66	200.0	180.00	VERTICAL
64.989980	16.02	100.0	270.00	VERTICAL
514.028056	18.89	100.0	0.00	VERTICAL
953.346693	30.38	100.0	90.00	VERTICAL

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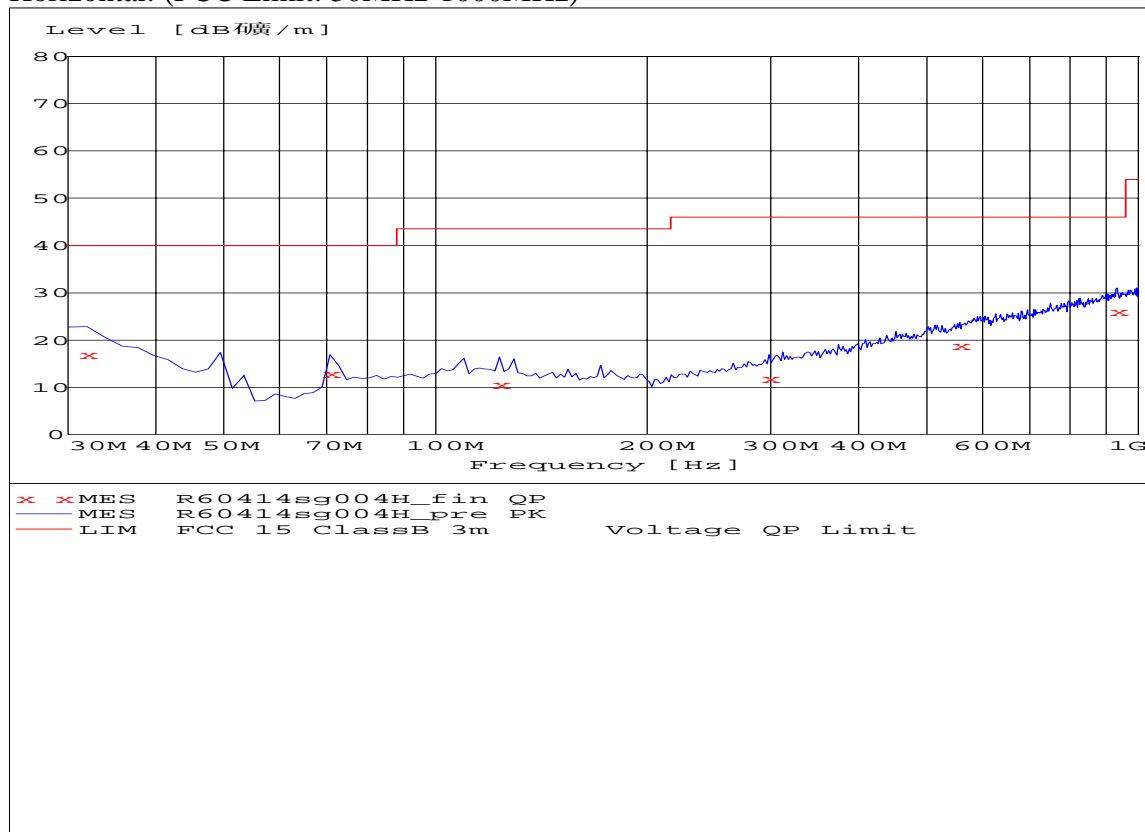
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PCS 1900 connected: (test OT-E100a with 3DS09371AGAA of Leader power adaptor )

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



Frequency	Level	Height	Azimuth	Polarisation
MHz	dB $\mu$ V/m	cm	deg	

31.943888	16.89	100.0	180.00	HORIZONTAL
70.821643	12.88	400.0	0.00	HORIZONTAL
123.306613	10.45	300.0	0.00	HORIZONTAL
298.256513	11.89	100.0	0.00	HORIZONTAL
556.793587	18.79	200.0	270.00	HORIZONTAL
931.963928	26.02	400.0	180.00	HORIZONTAL

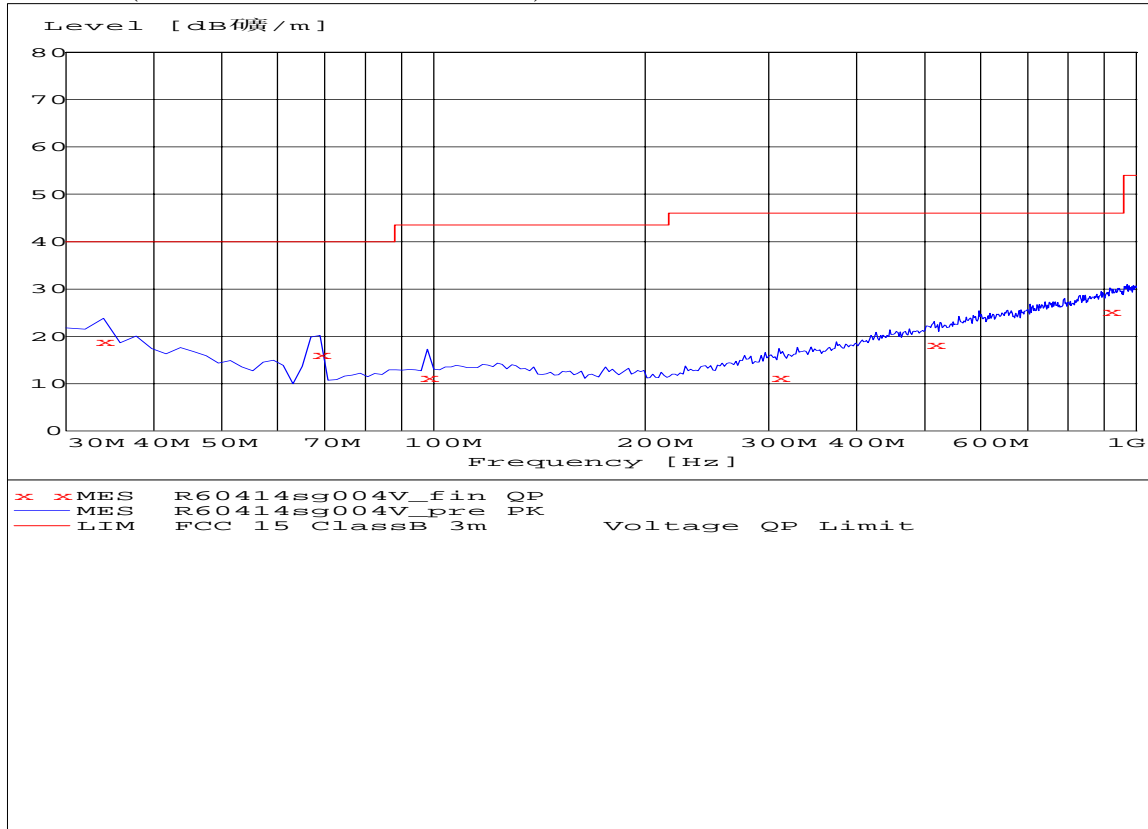
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Vertical: (FCC Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dB $\mu$ V/m	cm	deg	

33.887776	18.77	100.0	0.00	VERTICAL
68.877756	16.22	200.0	180.00	VERTICAL
98.036072	11.33	100.0	90.00	VERTICAL
309.919840	11.41	100.0	270.00	VERTICAL
515.971944	18.15	100.0	90.00	VERTICAL
916.412826	25.27	400.0	0.00	VERTICAL

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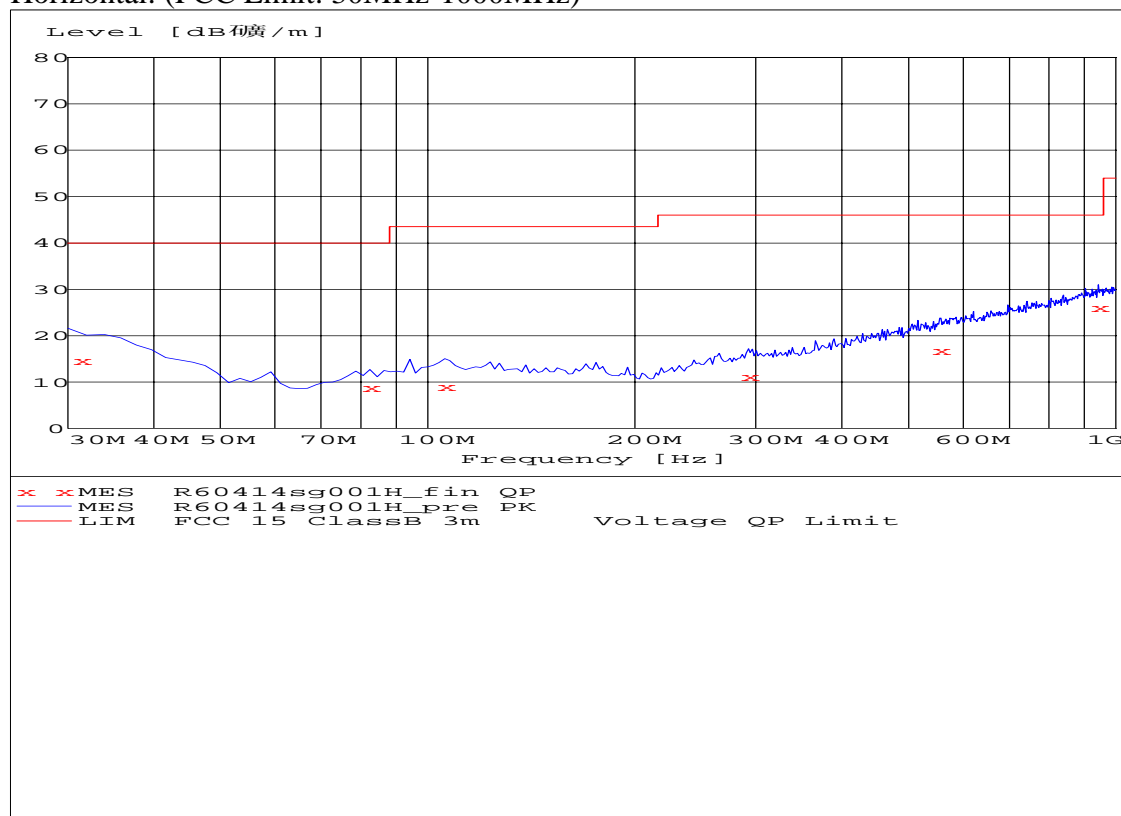
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PCS 1900 connected: (test OT-E100a with 3DS09371AGAA of Astec power adaptor )

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



Frequency	Level	Height	Azimuth	Polarisation
MHz	dB $\mu$ V/m	cm	deg	

31.345272	14.62	300.0	0.00	HORIZONTAL
82.484970	8.69	400.0	90.00	HORIZONTAL
105.811623	9.02	400.0	90.00	HORIZONTAL
292.424850	11.13	100.0	180.00	HORIZONTAL
554.849699	16.82	200.0	270.00	HORIZONTAL
943.627255	25.96	100.0	180.00	HORIZONTAL

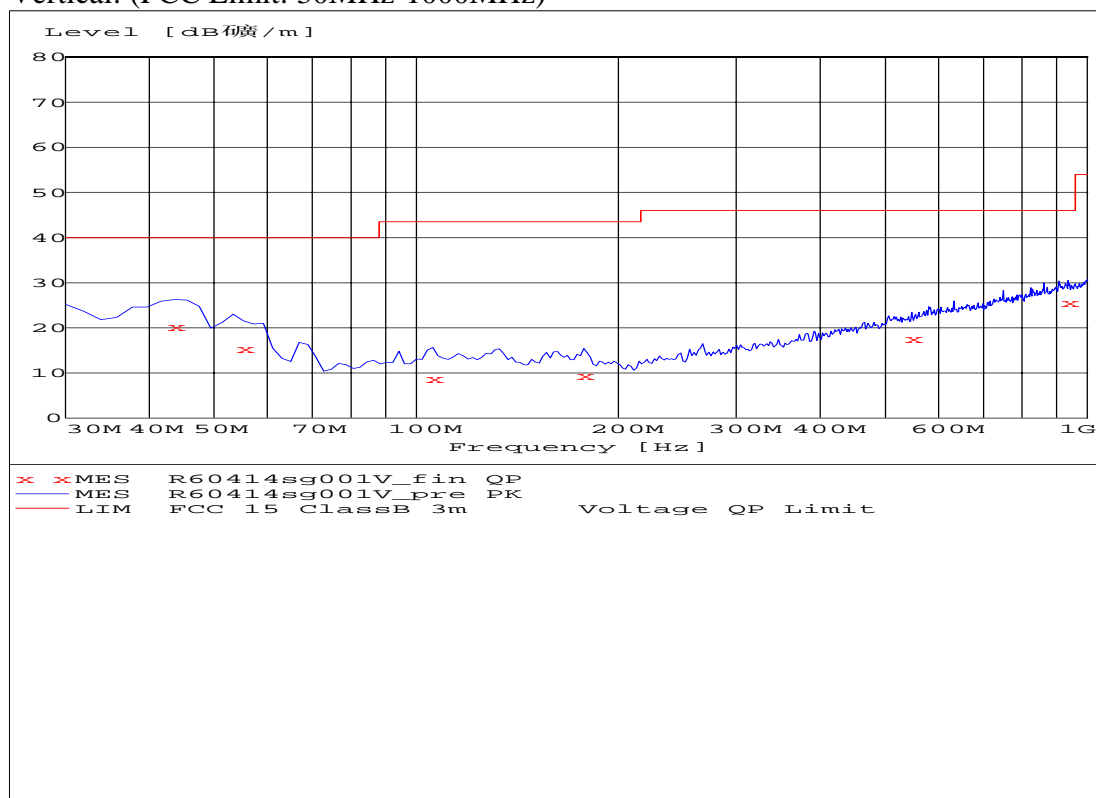
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Vertical: (FCC Limit: 30MHz-1000MHz)



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation
------------------	-----------------	--------------	----------------	--------------

43.607214	20.26	100.0	0.00	VERTICAL
55.270541	15.52	100.0	180.00	VERTICAL
105.811623	8.62	100.0	0.00	VERTICAL
177.735471	9.42	400.0	270.00	VERTICAL
547.074148	17.49	100.0	0.00	VERTICAL
935.851703	25.51	400.0	270.00	VERTICAL



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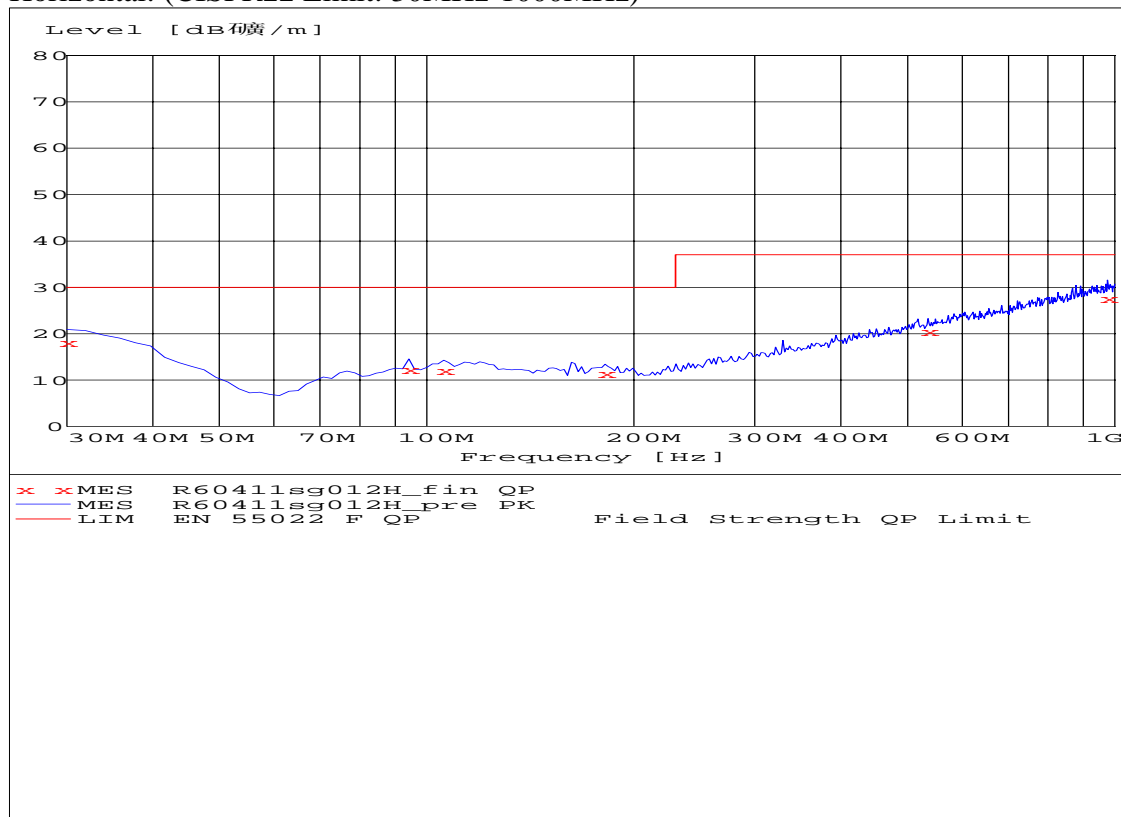
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PCS 1900 connected: (test OT-100a with 3DS09371AAAA of Astec power adaptor )

Horizontal: (CISPR22 Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	

30.000000	17.99	400.0	90.00	HORIZONTAL
94.148297	12.33	300.0	90.00	HORIZONTAL
105.811623	12.02	200.0	180.00	HORIZONTAL
181.623246	11.33	100.0	180.00	HORIZONTAL
535.410822	20.50	200.0	90.00	HORIZONTAL
976.673347	27.64	100.0	0.00	HORIZONTAL

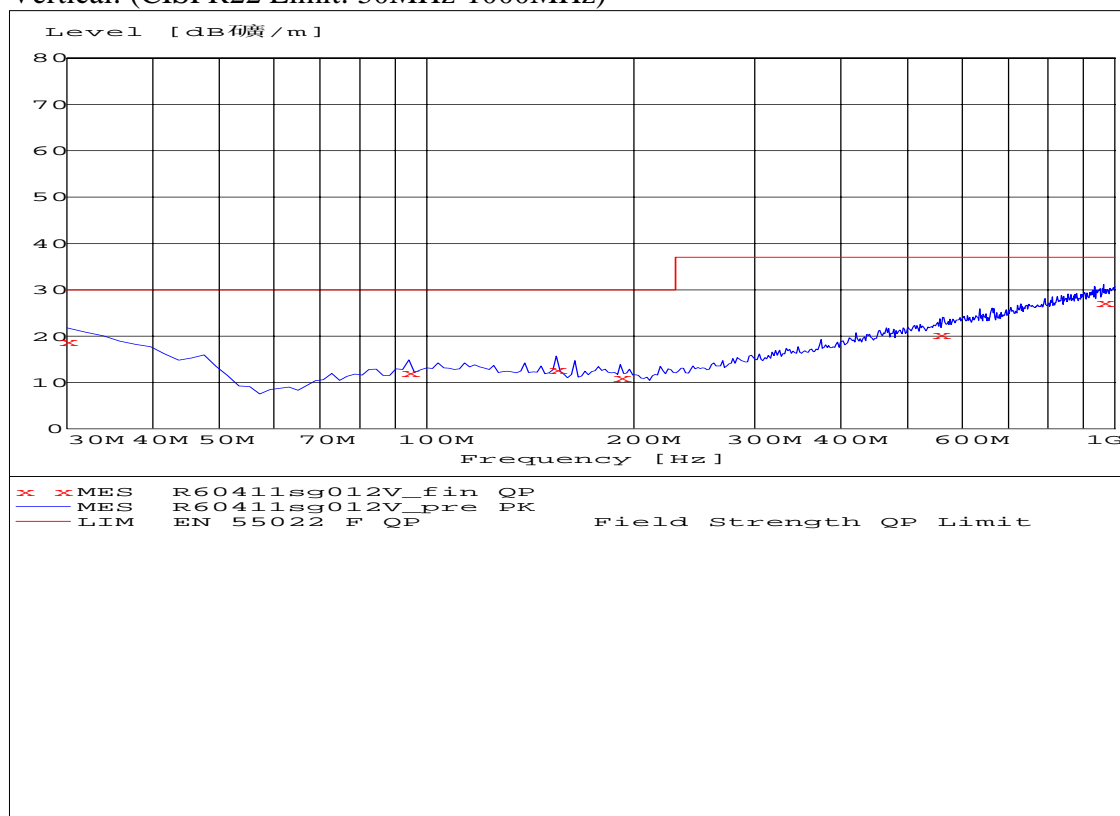
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## Vertical: (CISPR22 Limit: 30MHz-1000MHz)



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation
30.000000	18.88	100.0	90.00	VERTICAL
94.148297	12.06	400.0	270.00	VERTICAL
154.408818	12.78	100.0	0.00	VERTICAL
191.342685	11.01	400.0	270.00	VERTICAL
556.793587	20.25	100.0	90.00	VERTICAL
963.066132	27.18	300.0	270.00	VERTICAL

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

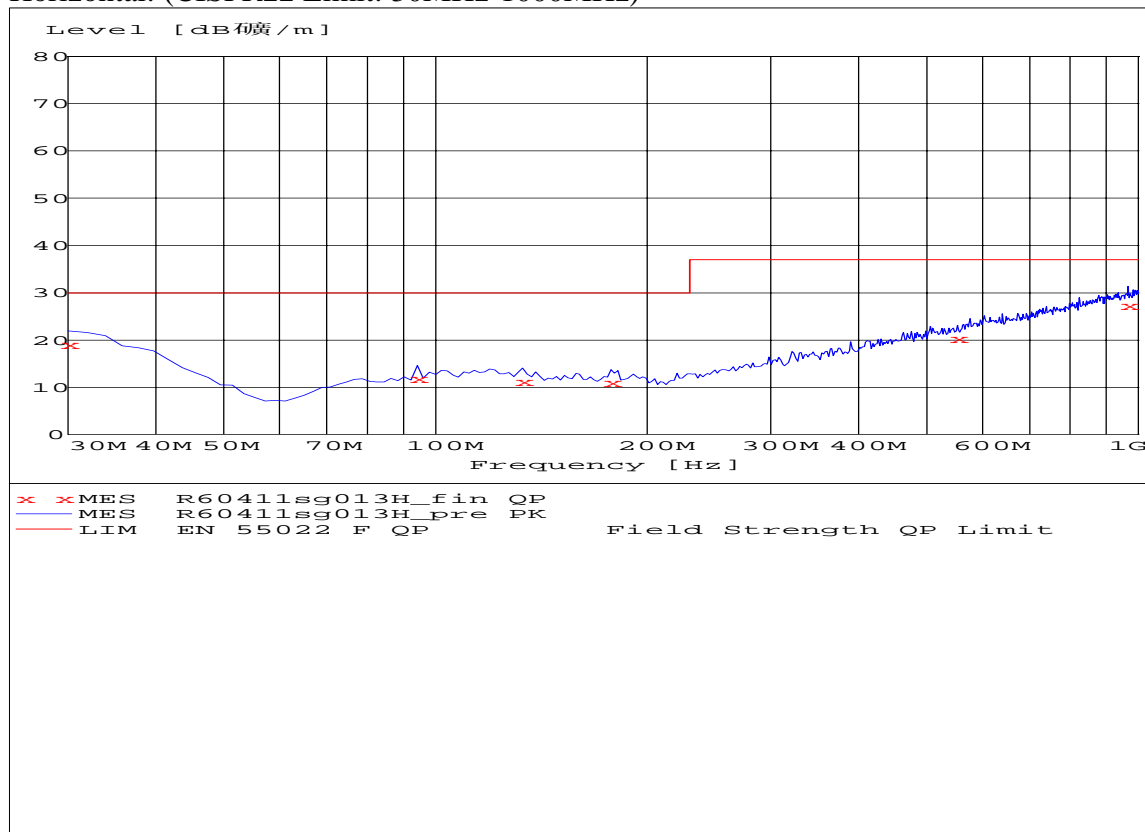
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PCS 1900 connected: (test OT-E100a with 3DS09371AAAA of Leader power adaptor )

Horizontal: (CISPR22 Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	

30.000000	18.99	100.0	270.00	HORIZONTAL
94.148297	11.78	100.0	270.00	HORIZONTAL
133.026052	11.29	400.0	180.00	HORIZONTAL
177.735471	10.99	200.0	270.00	HORIZONTAL
552.905812	20.22	100.0	0.00	HORIZONTAL
966.953908	27.38	200.0	180.00	HORIZONTAL

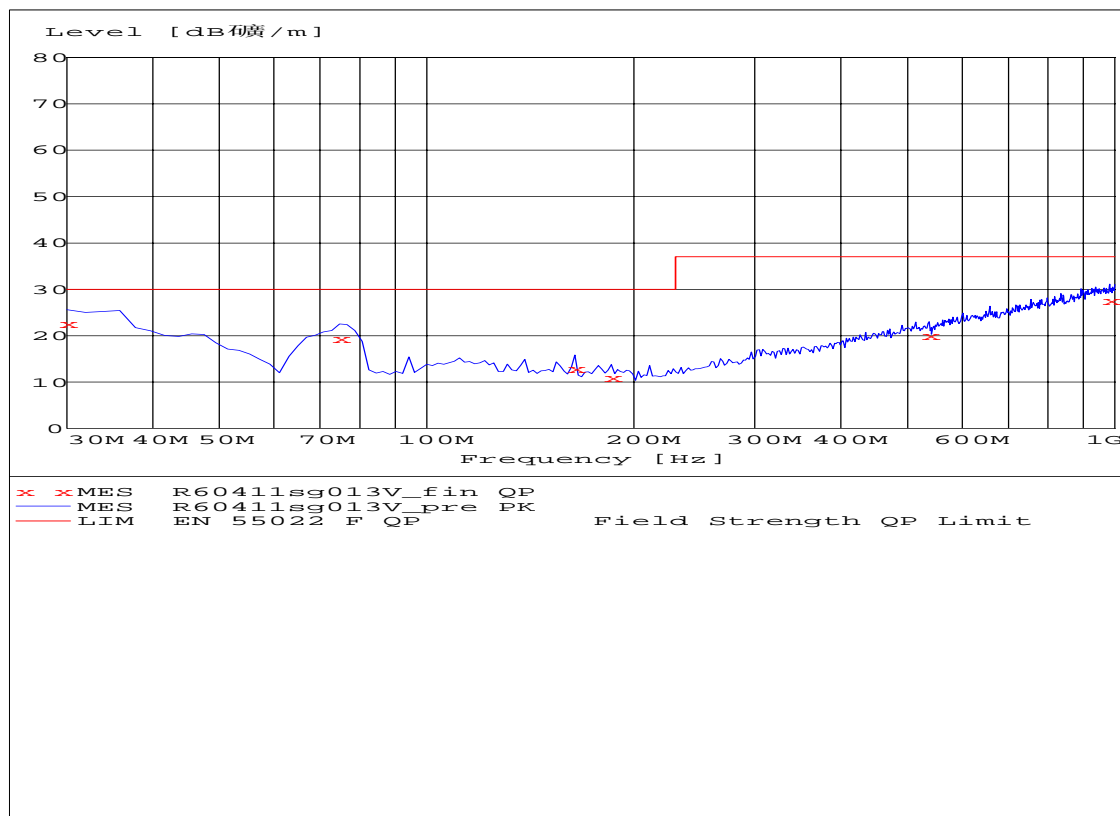
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Vertical: (CISPR22 Limit: 30MHz-1000MHz)



Frequency MHz	Level dB $\mu$ V/m	Height cm	Azimuth deg	Polarisation
------------------	-----------------------	--------------	----------------	--------------

30.000000	22.68	100.0	270.00	VERTICAL
74.709419	19.44	200.0	90.00	VERTICAL
164.128257	12.81	100.0	90.00	VERTICAL
185.511022	10.87	100.0	180.00	VERTICAL
537.354709	19.89	400.0	0.00	VERTICAL
982.505010	27.58	300.0	90.00	VERTICAL

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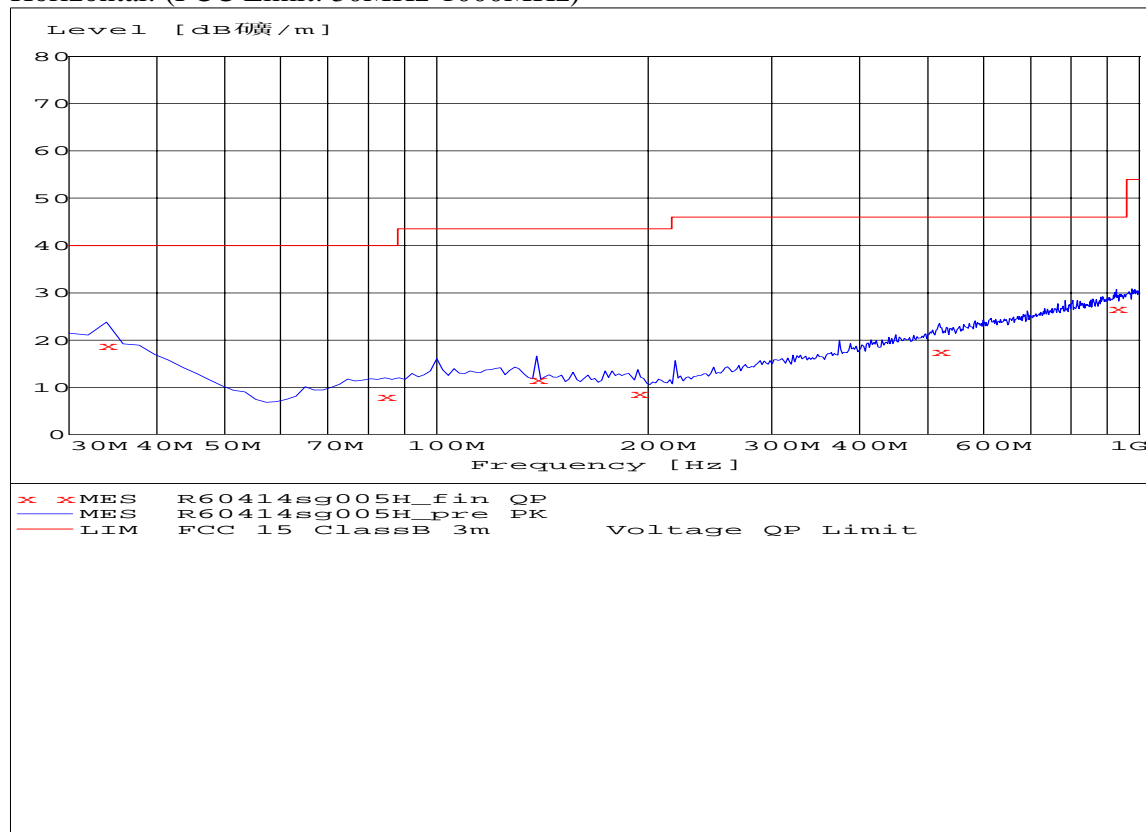
1/F, 7/F, 9/F, 10/F, the 3rd Building No. 889,  
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PCS 1900 connected: (test OT-E100a with 3DS07848AAAA of Primax power adaptor DC 12V)

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



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	

33.887776	18.83	100.0	180.00	HORIZONTAL
84.428858	8.03	400.0	0.00	HORIZONTAL
138.857715	11.60	400.0	90.00	HORIZONTAL
193.286573	8.72	400.0	0.00	HORIZONTAL
519.859719	17.50	200.0	270.00	HORIZONTAL
928.076152	26.74	400.0	0.00	HORIZONTAL

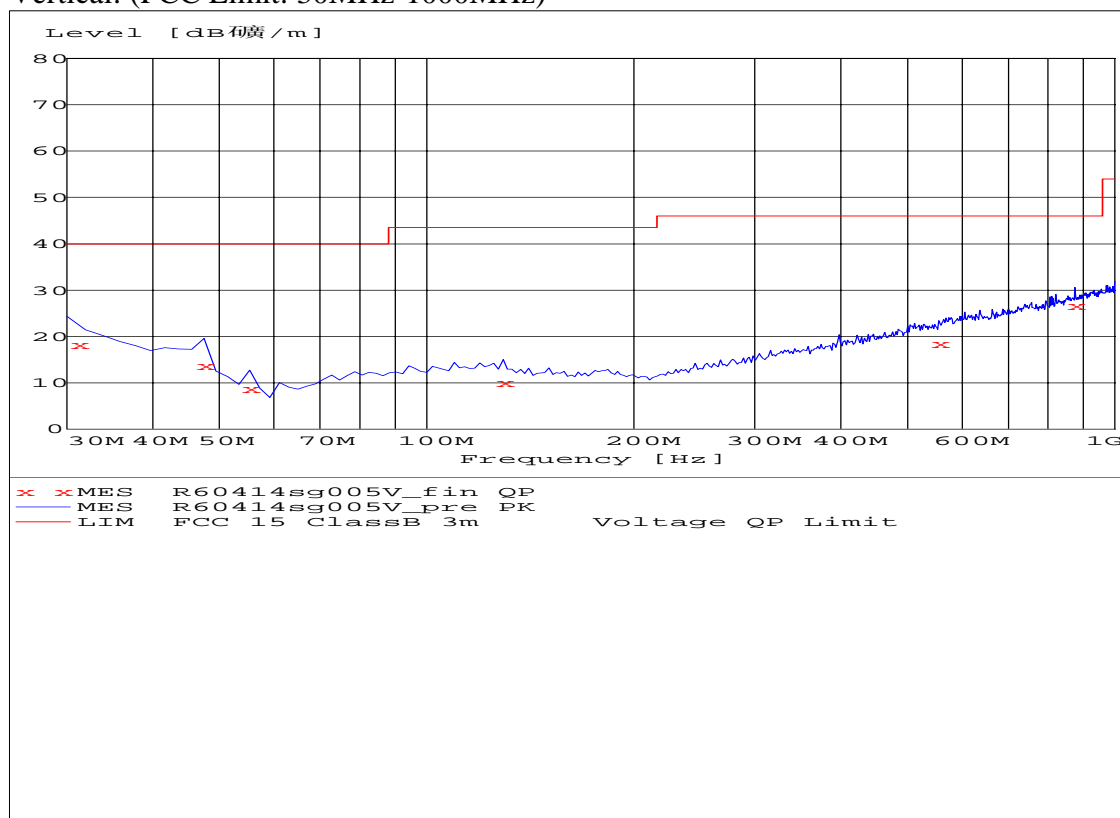
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## Vertical: (FCC Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dB $\mu$ V/m	cm	deg	

31.127421	18.34	100.0	0.00	VERTICAL
47.494990	13.60	100.0	180.00	VERTICAL
55.270541	8.71	200.0	270.00	VERTICAL
129.138277	9.99	100.0	270.00	VERTICAL
554.849699	18.41	100.0	90.00	VERTICAL
875.591182	26.55	100.0	180.00	VERTICAL

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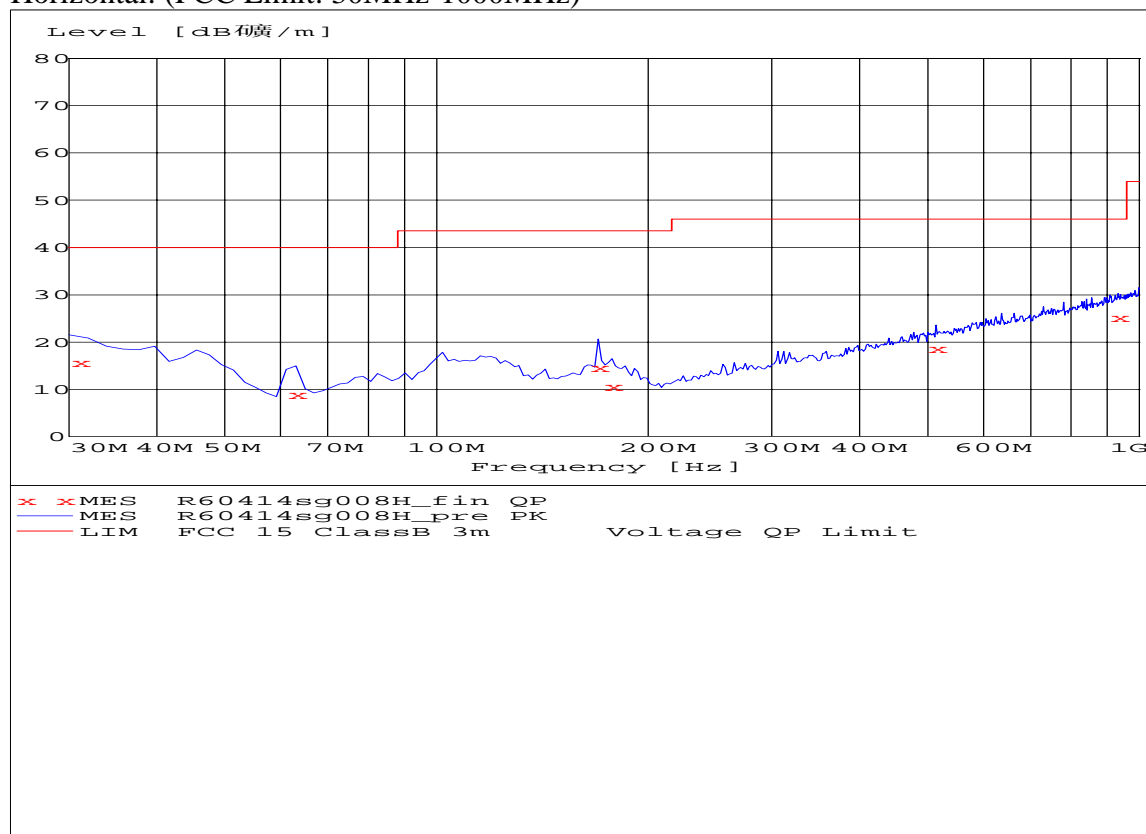
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PCS 1900 connected: (test OT-E100a with 3DS07848AAAA of Primax power adaptor DC 24V)

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



Frequency	Level	Height	Azimuth	Polarisation
MHz	dB $\mu$ V/m	cm	deg	

31.014256	15.54	200.0	180.00	HORIZONTAL
63.046092	8.92	400.0	0.00	HORIZONTAL
169.959920	14.66	400.0	90.00	HORIZONTAL
177.735471	10.50	300.0	0.00	HORIZONTAL
514.028056	18.58	200.0	270.00	HORIZONTAL
931.963928	25.31	100.0	270.00	HORIZONTAL

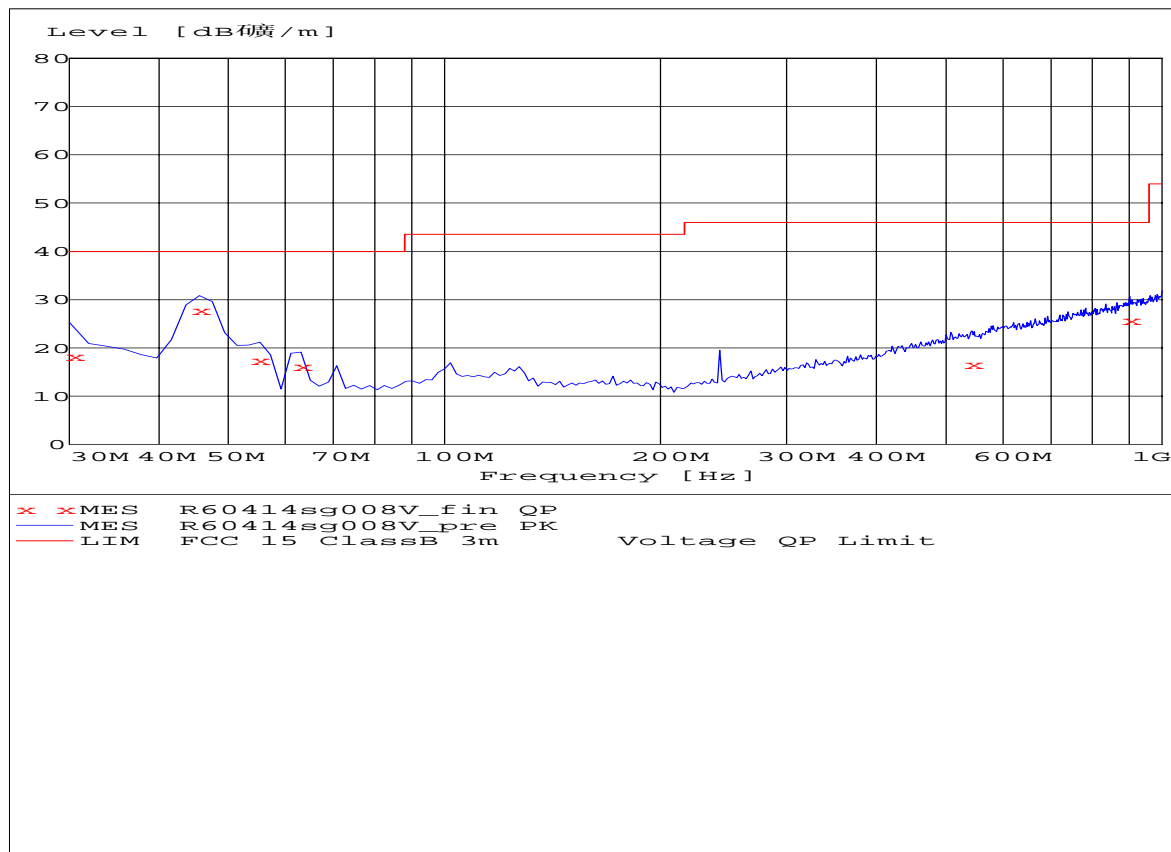
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Vertical: (FCC Limit: 30MHz-1000MHz)



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBμV/m	cm	deg	

30.375534	18.25	100.0	0.00	VERTICAL
45.551102	27.82	100.0	0.00	VERTICAL
55.130261	17.44	200.0	180.00	VERTICAL
63.046092	16.10	100.0	270.00	VERTICAL
543.186373	16.56	100.0	90.00	VERTICAL
900.861723	25.73	300.0	270.00	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:	24 April 2006 to 12 October 2006
Frequency Range:	150kHz to 30MHz
Class:	N/A
Limit:	66 dB $\mu$ V - 56 dB $\mu$ V between 150kHz & 500kHz Quasi-peak 56 dB $\mu$ V between 0.5MHz & 5MHz Quasi-peak 60 dB $\mu$ 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 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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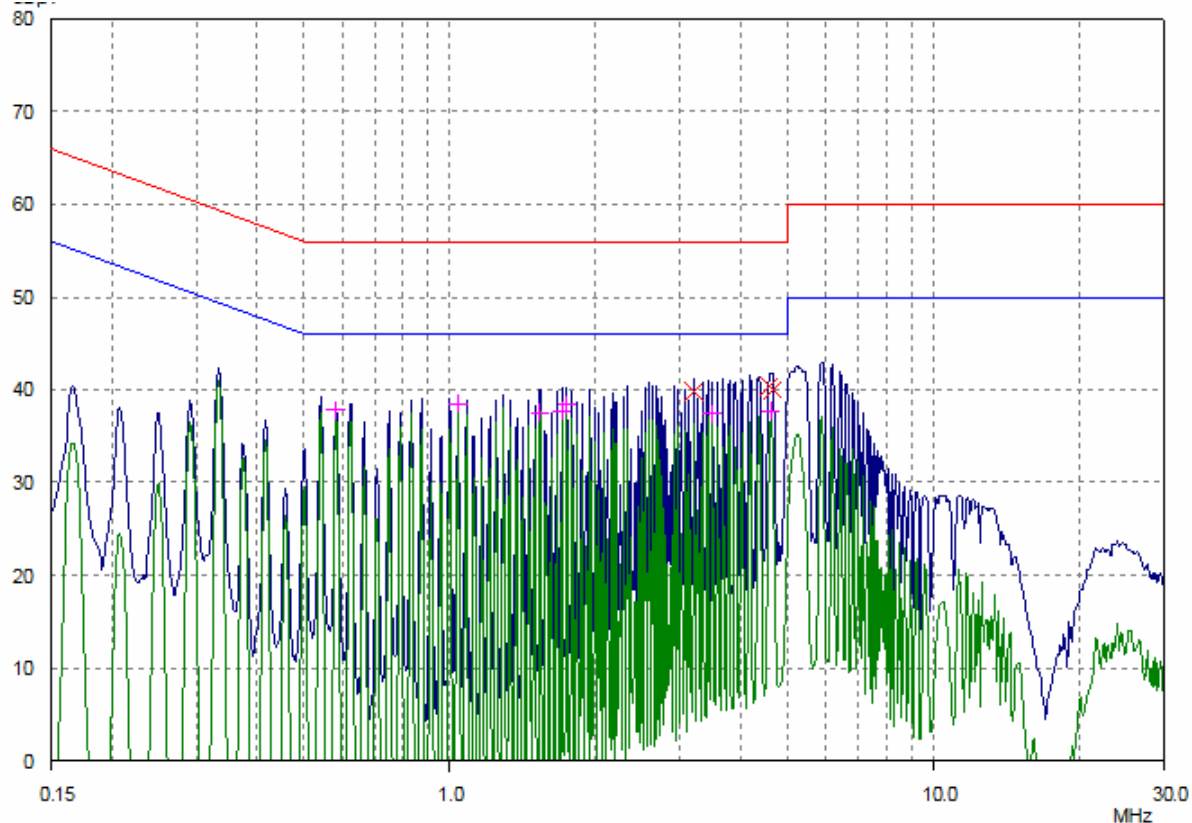
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GSM 850 connected: (test Mobile with 3DS09371AGAA of Leader power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
3.19842	39.75	56.00	16.25
4.57782	40.48	56.00	15.52
4.65136	40.00	56.00	16.00

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.58127	37.79	46.00	8.21
1.03992	38.38	46.00	7.62
1.53662	37.55	46.00	8.45
1.70432	37.72	46.00	8.28
1.74556	38.38	46.00	7.62
3.49141	37.40	46.00	8.60
4.61445	37.72	46.00	8.28

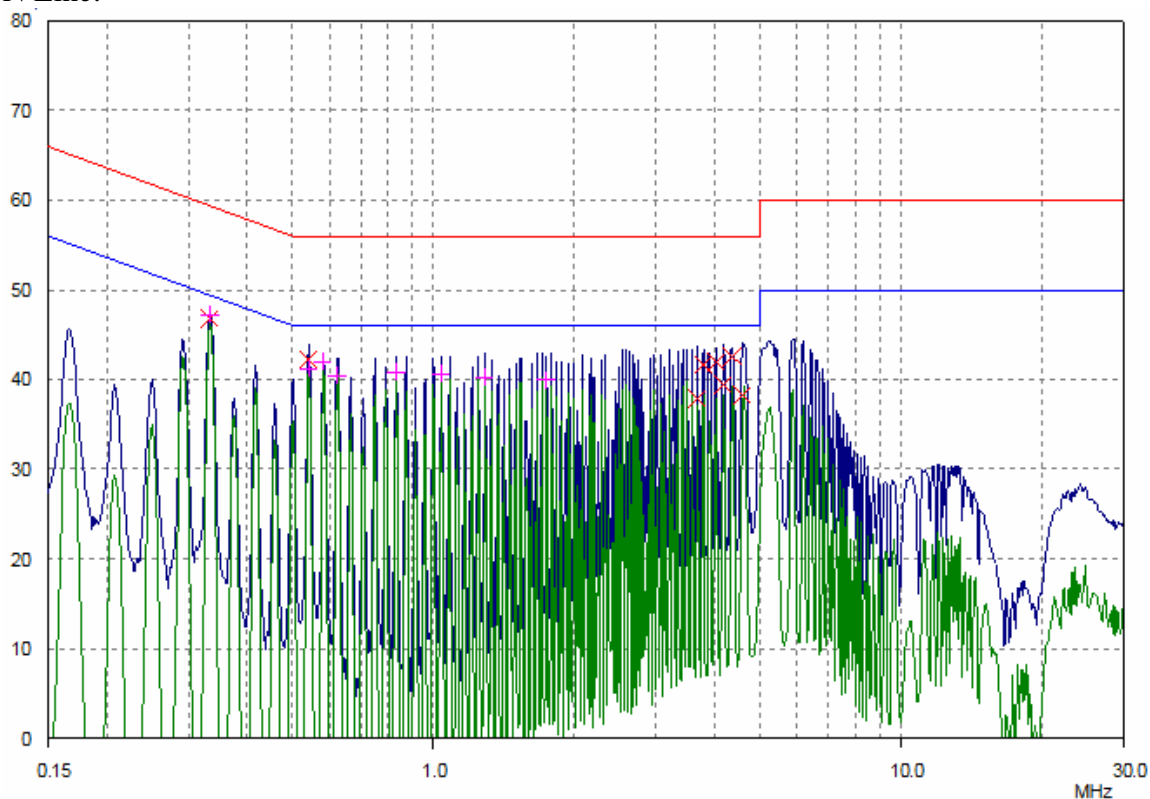
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N Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.33277	46.80	59.38	12.58
0.54104	42.23	56.00	13.77
3.66239	37.85	56.00	18.15
3.781	41.62	56.00	14.38
4.02986	41.90	56.00	14.10
4.16038	39.41	56.00	16.59
4.36411	42.53	56.00	13.47
4.57782	38.28	56.00	17.72

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.33277	47.11	49.38	2.27
0.54104	41.28	46.00	4.72
0.58127	41.92	46.00	4.08
0.62449	40.39	46.00	5.61
0.83196	40.72	46.00	5.28
1.03992	40.62	46.00	5.38
1.28954	40.17	46.00	5.83
1.74556	39.98	46.00	6.02

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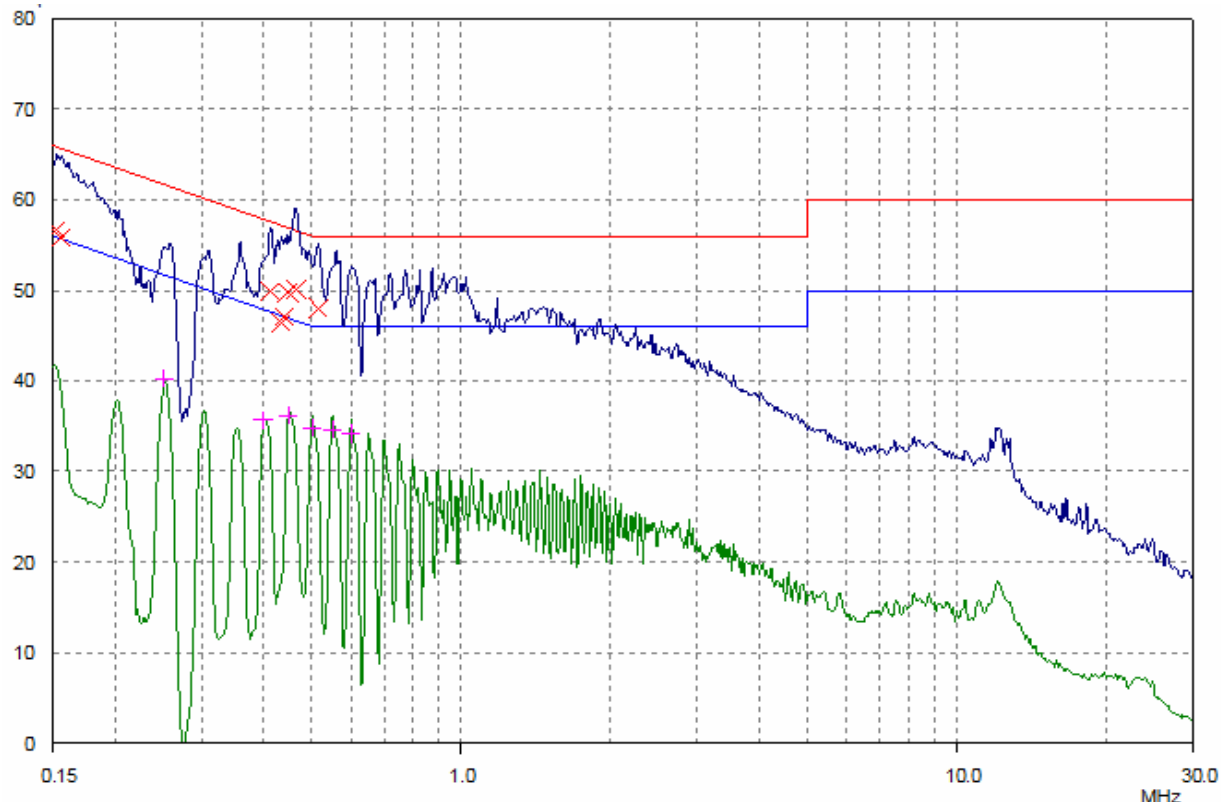
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GSM 850 connected: (test Mobile with 3DS09371AGAA of Astec power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.1524	56.68	65.87	9.19
0.15609	55.76	65.67	9.91
0.41264	49.87	57.59	7.72
0.43285	46.35	57.20	10.85
0.4398	47.10	57.07	9.97
0.44687	49.73	56.93	7.20
0.46503	50.07	56.60	6.53
0.51578	48.04	56.00	7.96

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.25178	40.24	51.70	11.46
0.3997	35.73	47.86	12.13
0.45044	36.17	46.87	10.70
0.49961	34.77	46.01	11.24
0.54974	34.60	46.00	11.40
0.6001	34.10	46.00	11.90

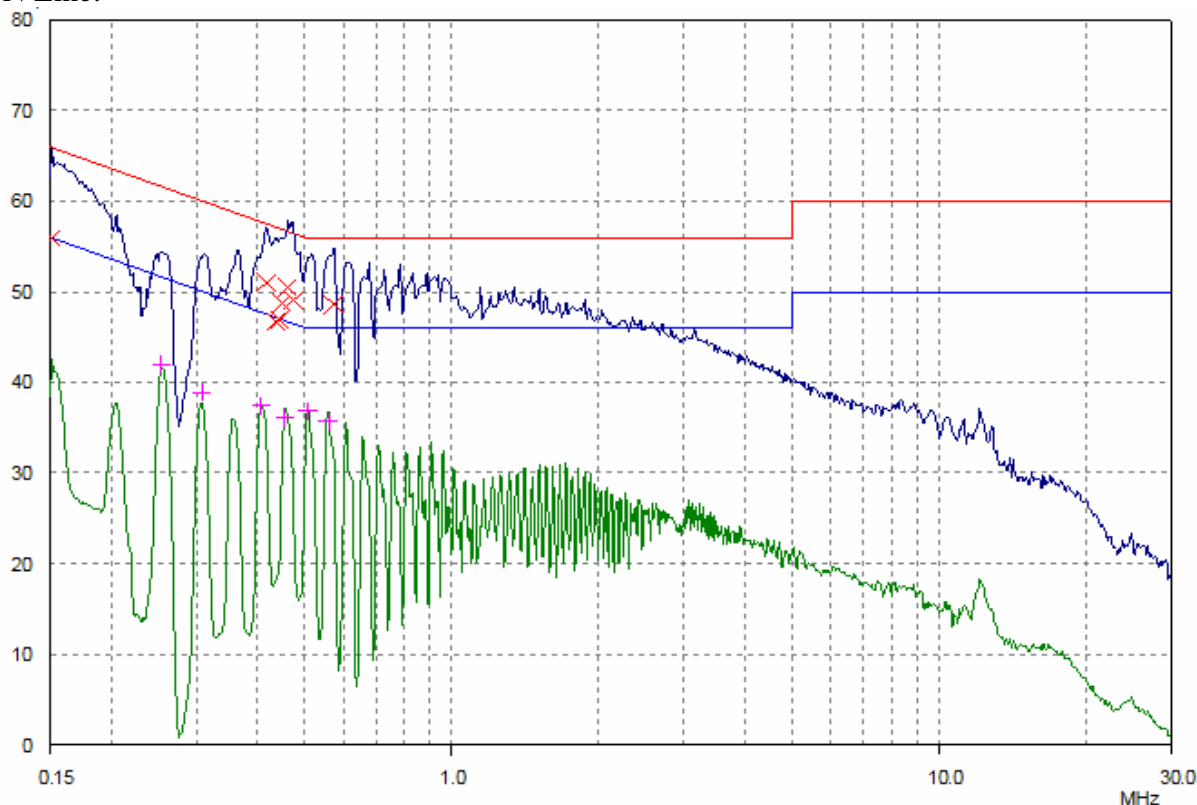
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N Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.1512	55.94	65.93	9.99
0.41594	51.03	57.53	6.50
0.43631	46.74	57.13	10.39
0.44332	46.92	57.00	10.08
0.45044	48.77	56.87	8.10
0.46134	50.52	56.67	6.15
0.4725	49.04	56.47	7.43
0.57208	48.59	56.00	7.41

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.25379	41.99	51.63	9.64
0.30728	38.87	50.04	11.17
0.40612	37.42	47.73	10.31
0.45405	36.08	46.80	10.72
0.50763	36.84	46.00	9.16
0.55857	35.72	46.00	10.28

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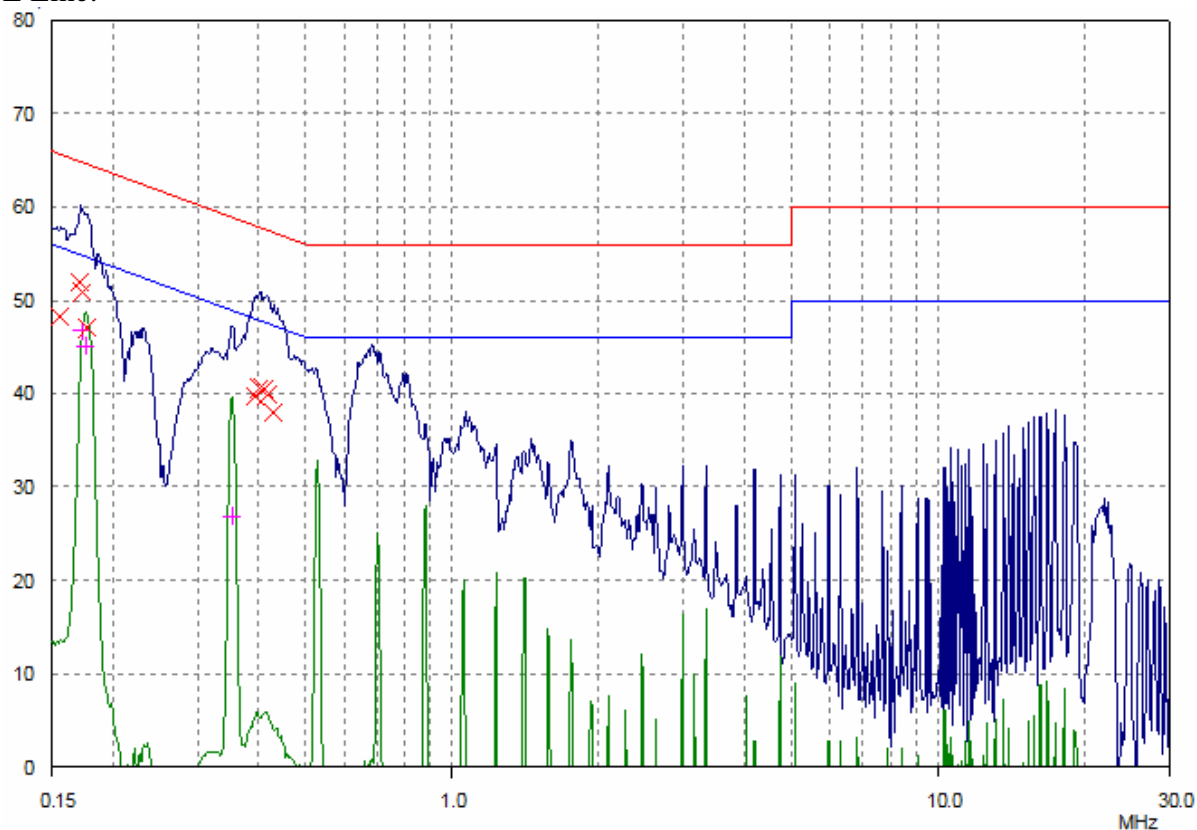
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GSM 850 connected: (test Mobile with 3DS09371AAAA of Astec power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15609	48.28	65.67	17.39
0.17175	51.96	64.88	12.92
0.17332	50.90	64.80	13.90
0.17732	47.03	64.61	17.58
0.39338	39.67	57.99	18.32
0.40289	40.59	57.79	17.20
0.40937	40.53	57.66	17.13
0.41594	39.86	57.53	17.67
0.42941	37.99	57.26	19.27

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.17332	46.69	54.80	8.11
0.17591	45.04	54.68	9.64
0.35185	26.90	48.92	22.02

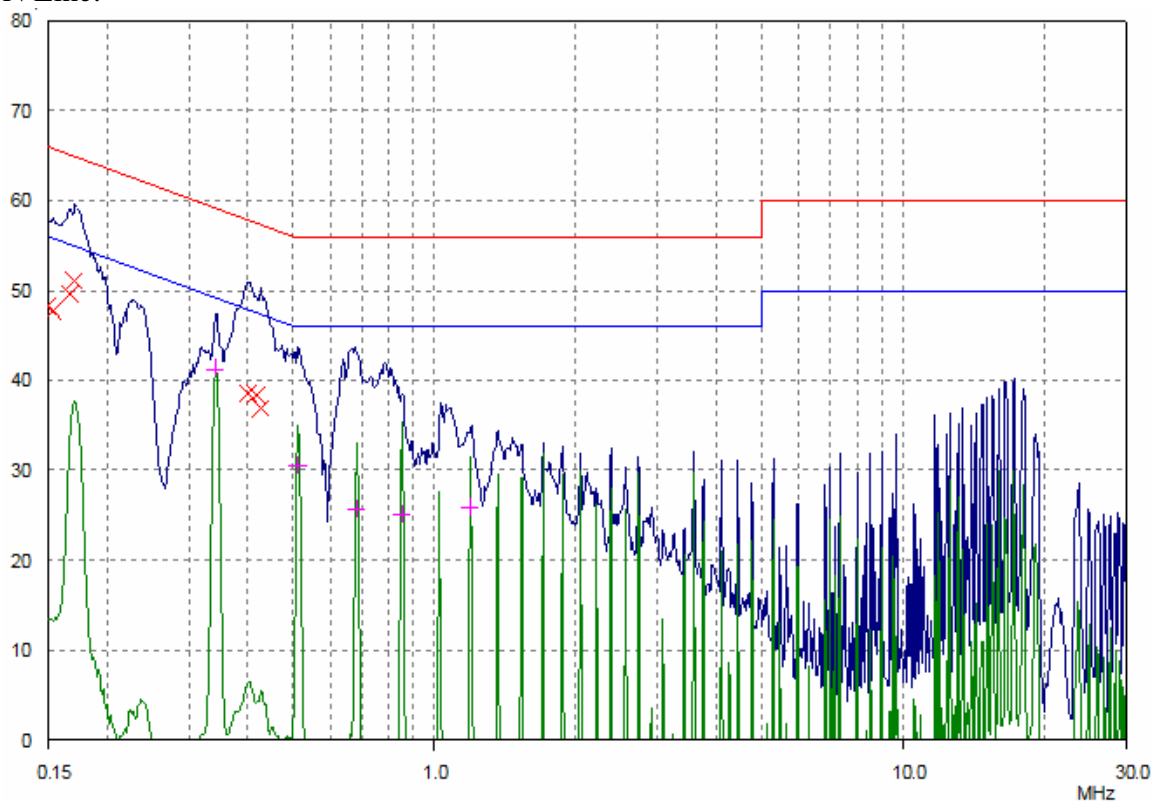
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N Line:



### Final Measurement Results

Frequency MHz	QP Level dB $\mu$ V	QP Limit dB $\mu$ V	QP Delta dB
0.15	48.26	66.00	17.74
0.15362	47.72	65.80	18.08
0.16637	49.58	65.14	15.56
0.17039	51.02	64.94	13.92
0.3997	38.57	57.86	19.29
0.41594	38.42	57.53	19.11
0.42601	36.91	57.33	20.42

Frequency MHz	AV Level dB $\mu$ V	AV Limit dB $\mu$ V	AV Delta dB
0.34082	41.28	49.18	7.90
0.51169	30.49	46.00	15.51
0.68169	25.66	46.00	20.34
0.85209	25.07	46.00	20.93
1.19077	25.81	46.00	20.19

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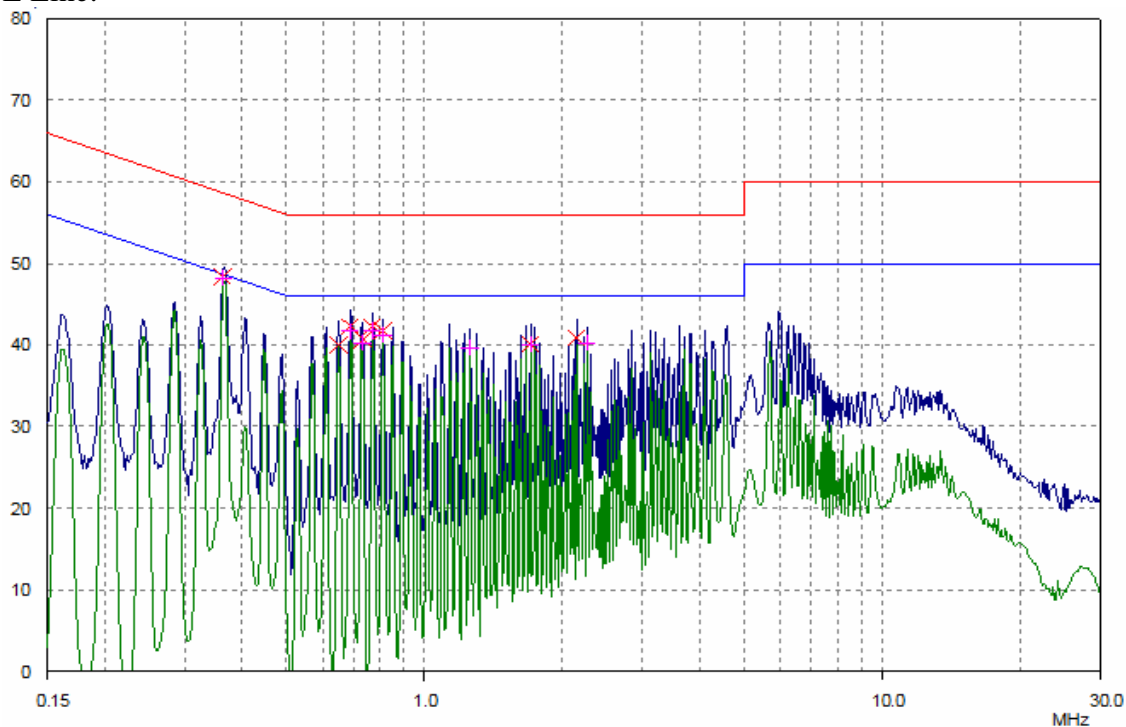
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GSM 850 connected: (test Mobile with 3DS09371AAAA of Leader power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.36325	48.37	58.65	10.28
0.64987	40.00	56.00	16.00
0.68715	42.31	56.00	13.69
0.73238	40.68	56.00	15.32
0.76824	42.27	56.00	13.73
0.81231	41.72	56.00	14.28
1.70432	40.07	56.00	15.93
2.14738	40.91	56.00	15.09

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.36325	48.24	48.65	0.41
0.68715	41.67	46.00	4.33
0.73238	40.15	46.00	5.85
0.76824	41.70	46.00	4.30
0.81231	41.22	46.00	4.78
1.25908	39.61	46.00	6.39
1.70432	40.07	46.00	5.93
2.27055	40.21	46.00	5.79



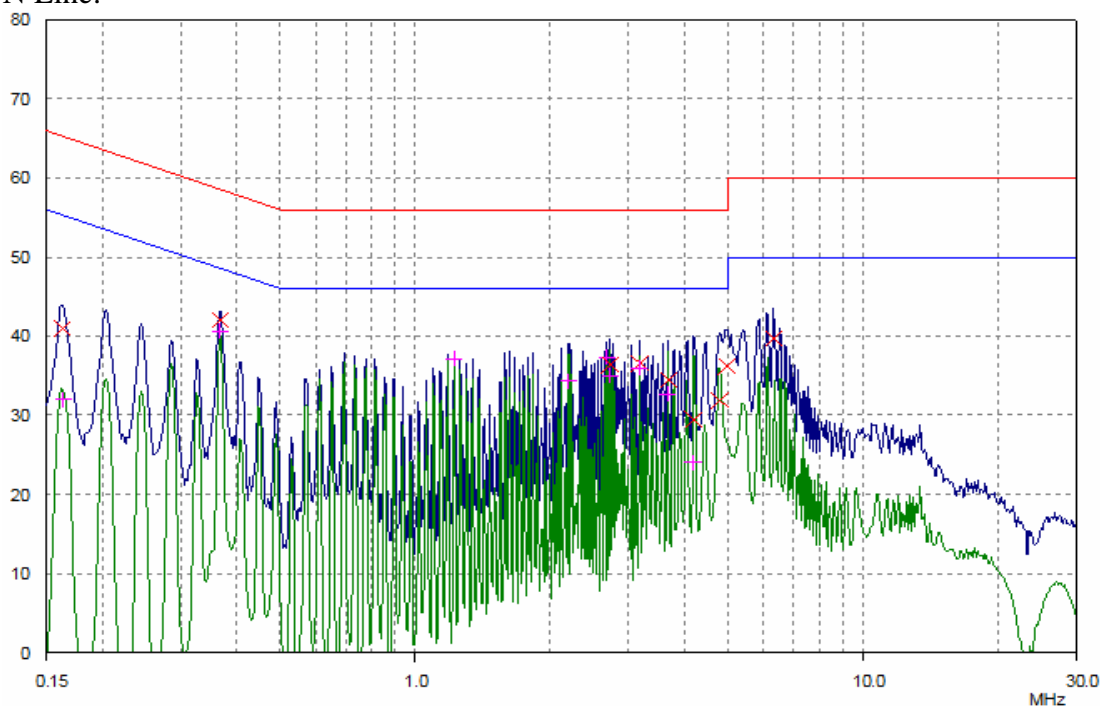
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N Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.16374	40.98	65.27	24.29
0.36615	41.98	58.59	16.61
2.72724	36.36	56.00	19.64
3.17303	36.59	56.00	19.41
3.66239	34.47	56.00	21.53
4.19366	29.47	56.00	26.53
4.802	31.86	56.00	24.14
4.95752	36.17	56.00	19.83
6.29623	39.71	60.00	20.29

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.16374	31.96	55.27	23.31
0.36615	40.60	48.59	7.99
1.21958	37.18	46.00	8.82
2.19933	34.27	46.00	11.73
2.68413	37.39	46.00	8.61
2.72724	35.04	46.00	10.96
3.17303	35.90	46.00	10.10
3.66239	32.58	46.00	13.42
4.19366	24.04	46.00	21.96

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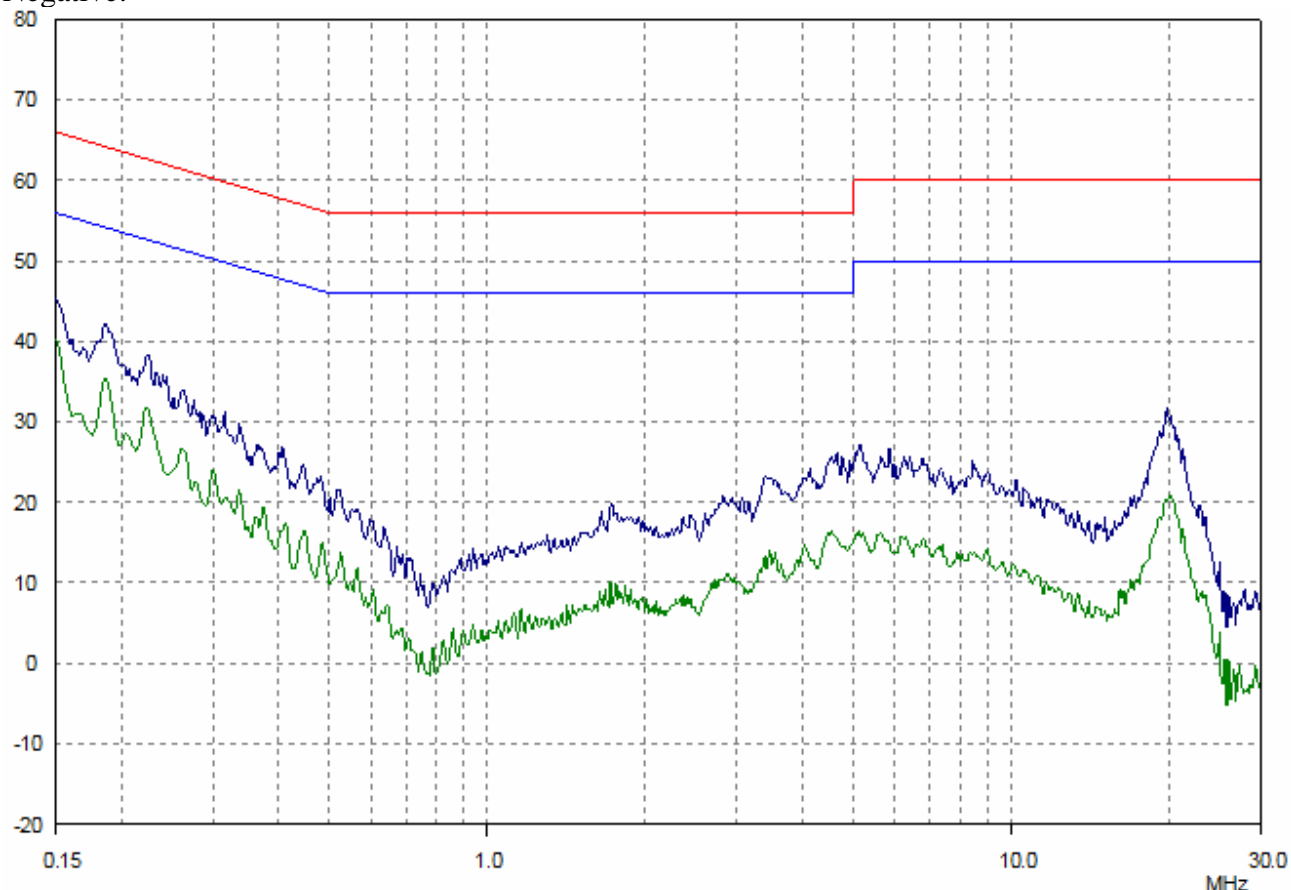
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GSM 850 connected: (test Mobile with 3DS07848AAAA of Primax power adaptor and headset.)

Negative:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
0.543	*	56	*	*	46	*
5.00	*	56	*	*	46	*
10.00	*	60	*	*	50	*
22.00	*	60	*	*	50	*
30.00	*	60	*	*	50	*

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

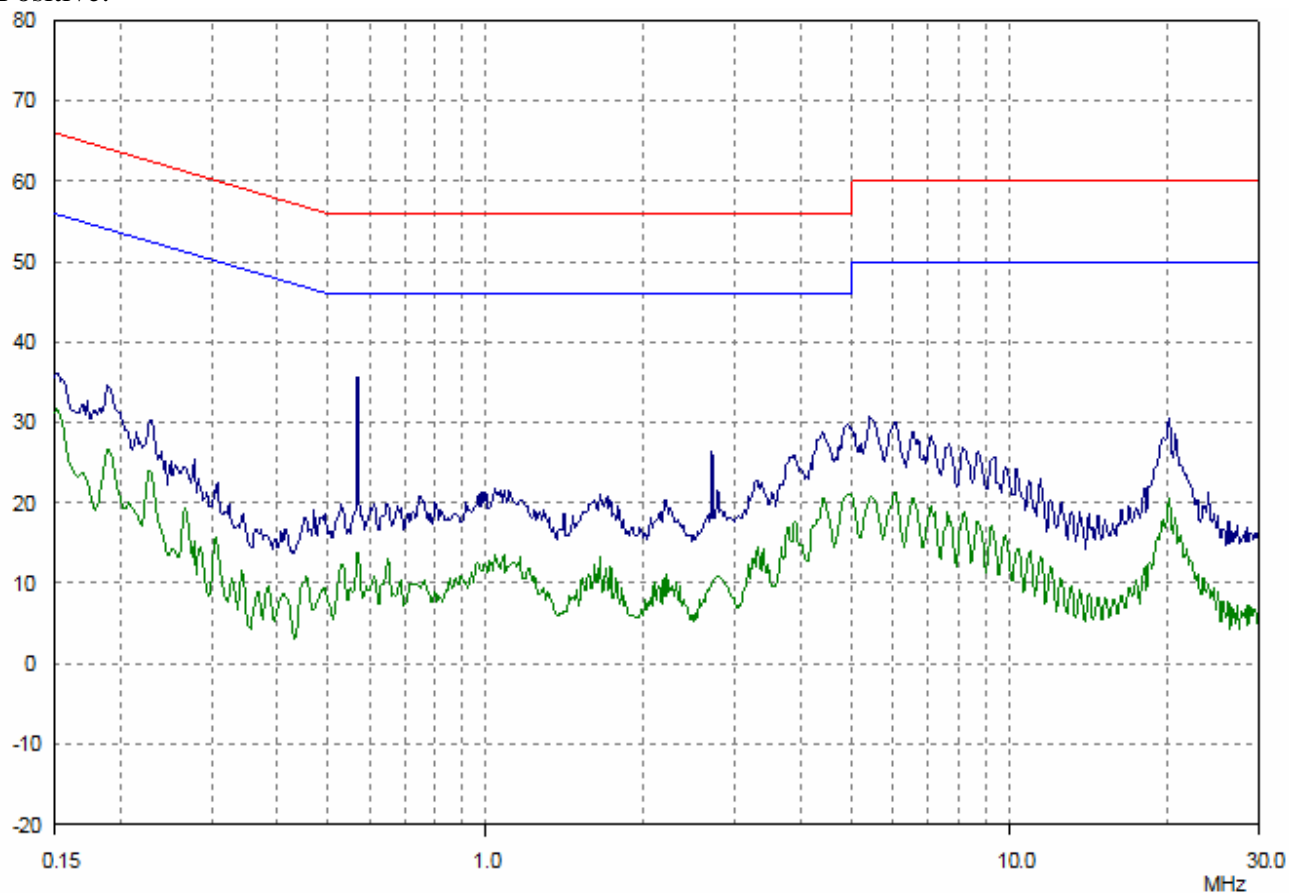
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Positive:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
0.543	*	56	*	*	46	*
5.00	*	56	*	*	46	*
10.00	*	60	*	*	50	*
22.00	*	60	*	*	50	*
30.00	*	60	*	*	50	*

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

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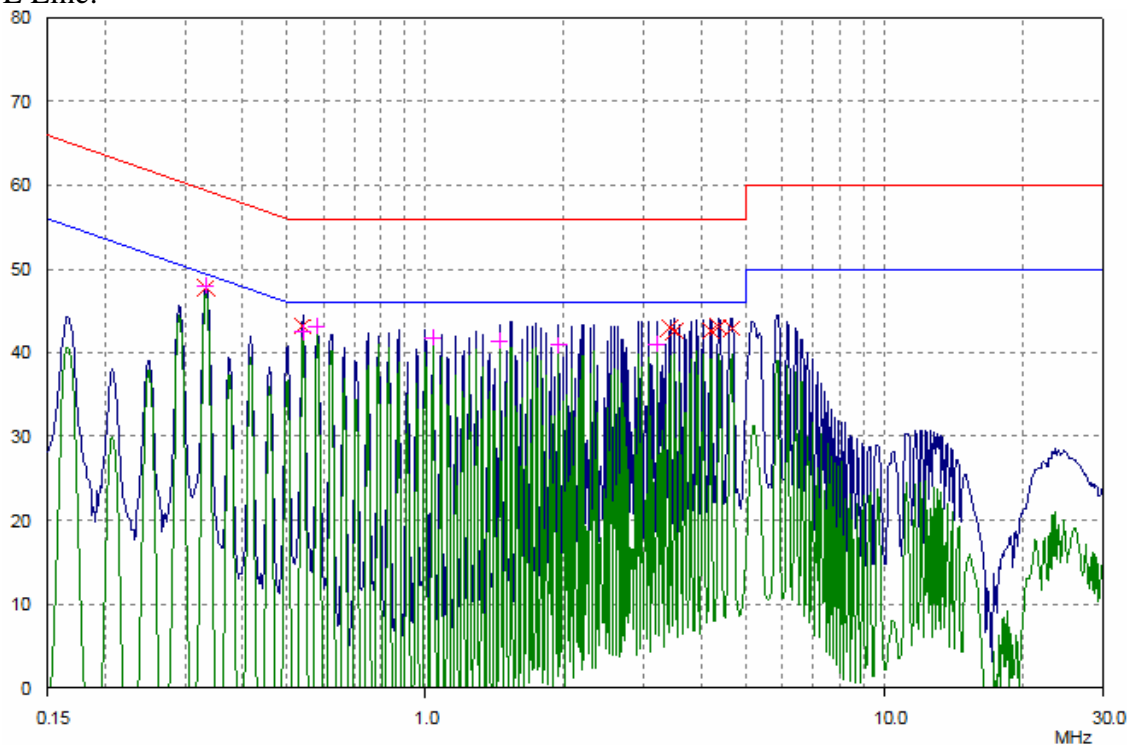
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PCS1900 connected: (test Mobile ith 3DS09371AGAA of Leader power adaptor and headset. )

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.33277	47.71	59.38	11.67
0.54104	43.17	56.00	12.83
3.40894	42.95	56.00	13.05
3.49141	42.59	56.00	13.41
4.19366	42.65	56.00	13.35
4.36411	43.11	56.00	12.89
4.65136	42.96	56.00	13.04

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.33277	47.95	49.38	1.43
0.54104	42.44	46.00	3.56
0.58127	43.06	46.00	2.94
1.03992	41.75	46.00	4.25
1.45325	41.38	46.00	4.62
1.95156	40.85	46.00	5.15
3.19842	40.93	46.00	5.07

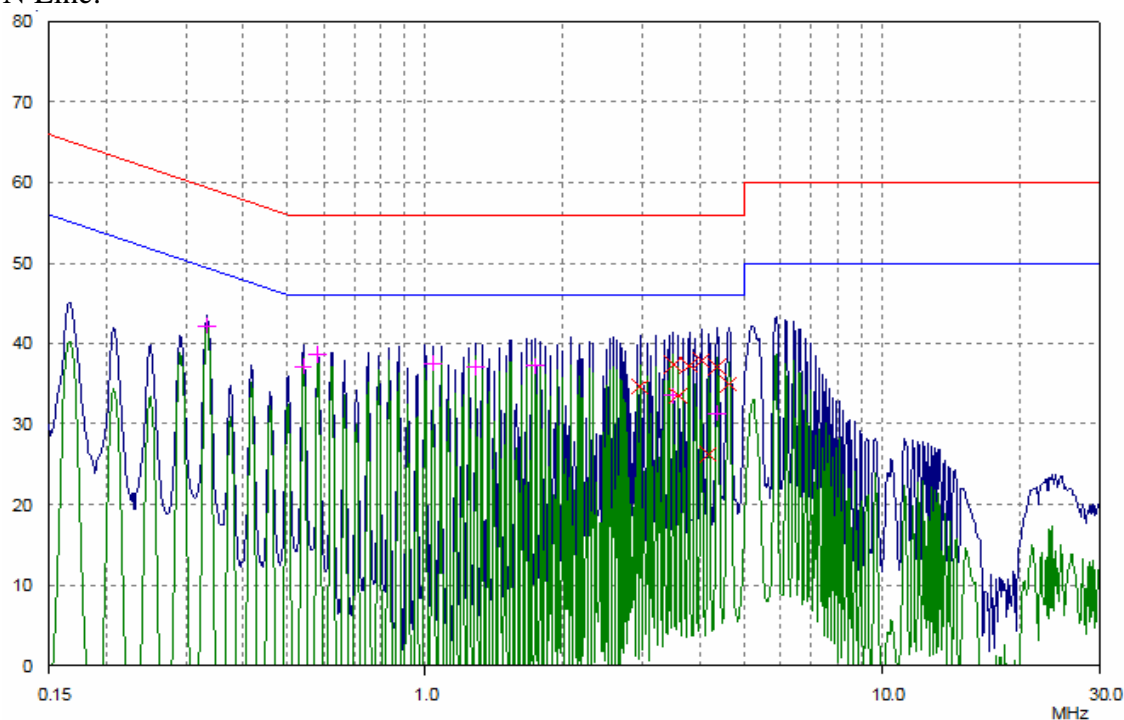
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N Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
2.95345	34.65	56.00	21.35
3.49141	37.37	56.00	18.63
3.57588	33.51	56.00	22.49
3.781	37.25	56.00	18.75
4.02986	37.85	56.00	18.15
4.16038	26.15	56.00	29.85
4.36411	37.11	56.00	18.89
4.61445	34.95	56.00	21.05

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.33277	42.19	49.38	7.19
0.54104	37.15	46.00	8.85
0.58127	38.56	46.00	7.44
1.03992	37.53	46.00	8.47
1.28954	37.03	46.00	8.97
1.74556	37.23	46.00	8.77
3.49141	33.52	46.00	12.48
4.36411	31.29	46.00	14.71

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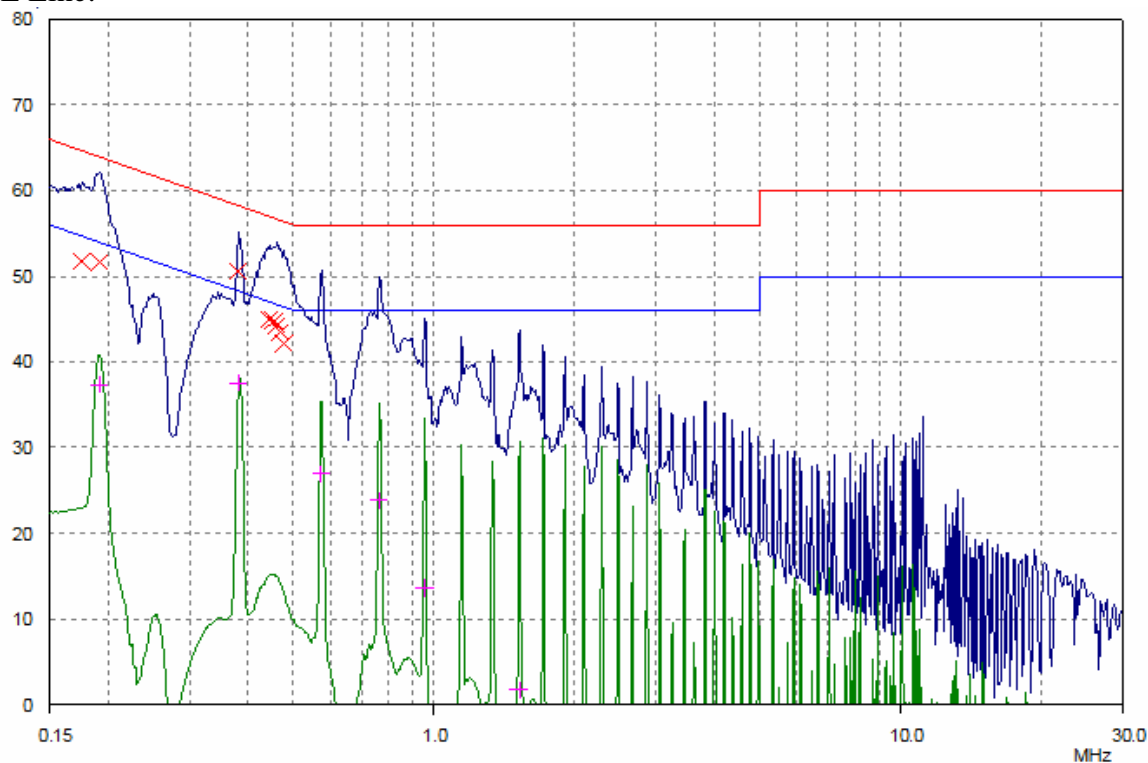
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PCS 1900 connected: (test Mobile with 3DS09371AGAA of Astec power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.17591	51.76	64.68	12.92
0.19202	51.65	63.95	12.30
0.38104	50.56	58.26	7.70
0.44332	44.97	57.00	12.03
0.45405	44.78	56.80	12.02
0.46134	44.22	56.67	12.45
0.46875	43.45	56.54	13.09
0.47628	42.18	56.40	14.22

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.19202	37.34	53.95	16.61
0.38104	37.40	48.26	10.86
0.57208	26.97	46.00	19.03
0.76214	23.82	46.00	22.18
0.95265	13.51	46.00	32.49
1.52442	1.78	46.00	44.22

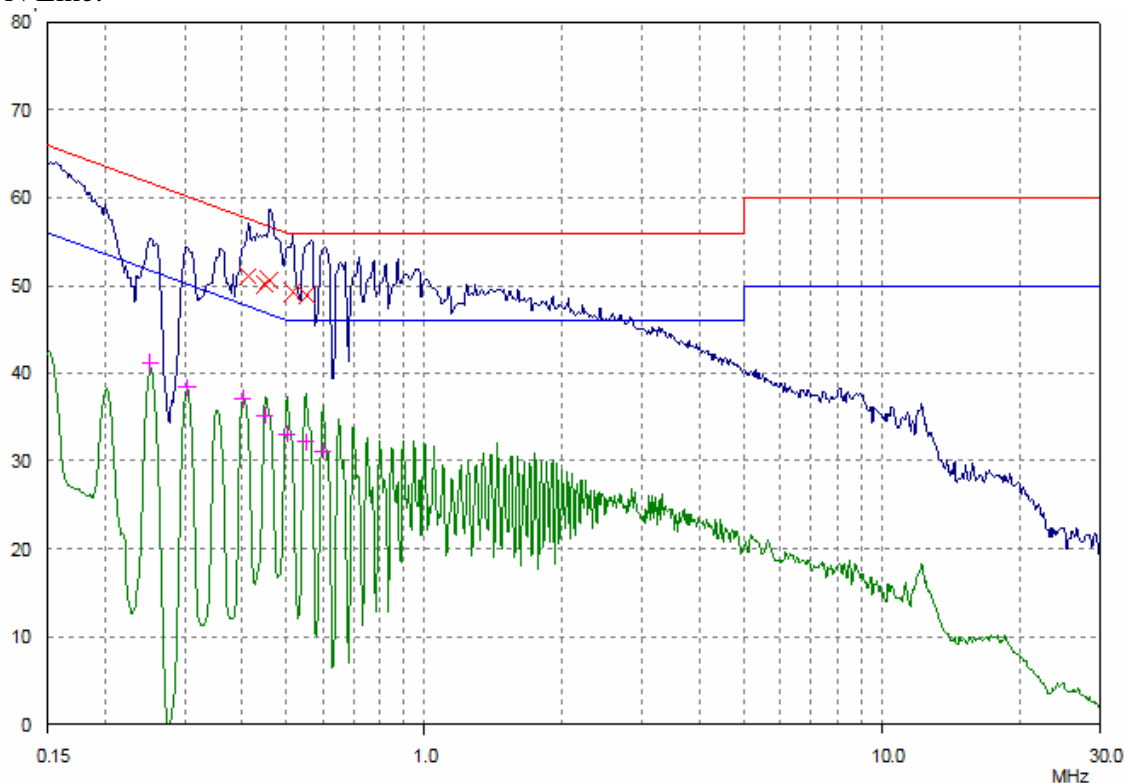
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N Line:



### Final Measurement Results

Frequency MHz	QP Level dB $\mu$ V	QP Limit dB $\mu$ V	QP Delta dB
0.41264	51.04	57.59	6.55
0.45044	50.11	56.87	6.76
0.45768	50.66	56.73	6.07
0.51578	49.23	56.00	6.77
0.55413	48.91	56.00	7.09

Frequency MHz	AV Level dB $\mu$ V	AV Limit dB $\mu$ V	AV Delta dB
0.25178	41.12	51.70	10.58
0.30242	38.35	50.18	11.83
0.40289	37.08	47.79	10.71
0.45044	35.16	46.87	11.71
0.49961	33.08	46.01	12.93
0.54974	32.16	46.00	13.84
0.6001	31.01	46.00	14.99

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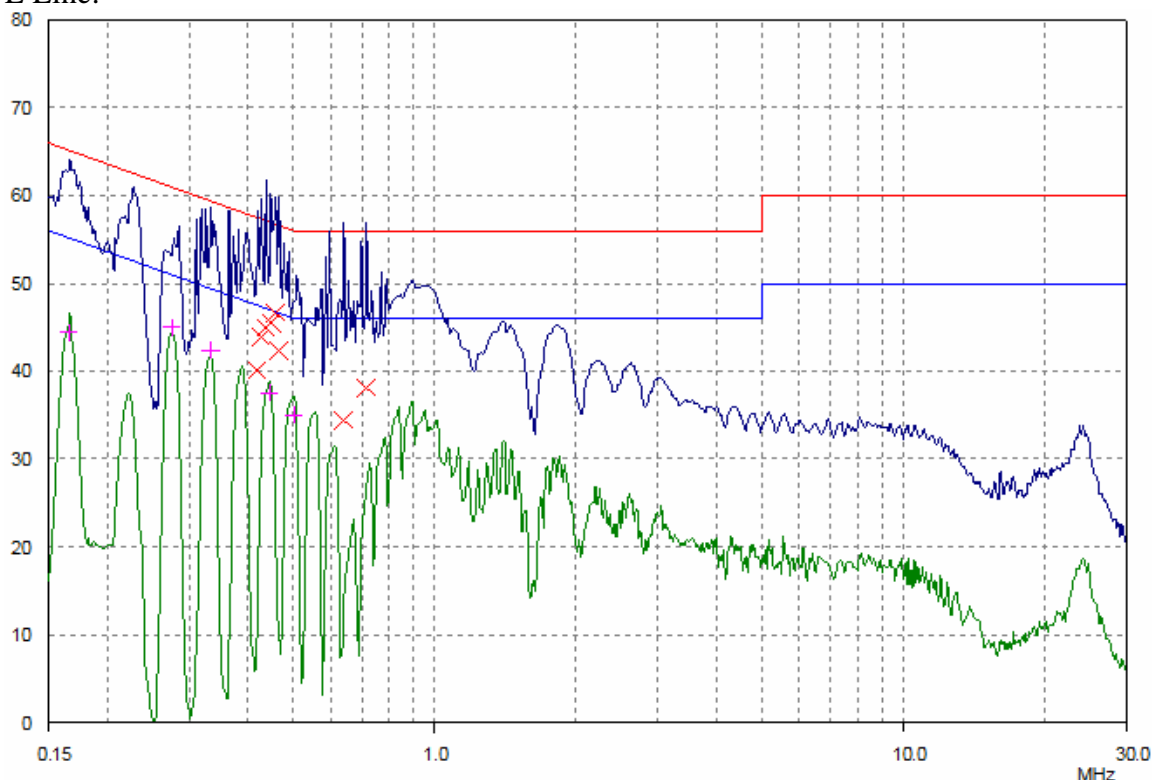
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PCS 1900 connected: (test Mobile with 3DS09371AAAA of Astec power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.41927	40.12	57.46	17.34
0.42601	43.86	57.33	13.47
0.43631	44.91	57.13	12.22
0.44687	45.47	56.93	11.46
0.45768	46.61	56.73	10.12
0.46503	42.33	56.60	14.27
0.63959	34.40	56.00	21.60
0.71508	38.10	56.00	17.90

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.16637	44.44	55.14	10.70
0.27484	44.93	50.97	6.04
0.33277	42.36	49.38	7.02
0.44332	37.47	47.00	9.53
0.49961	35.07	46.01	10.94



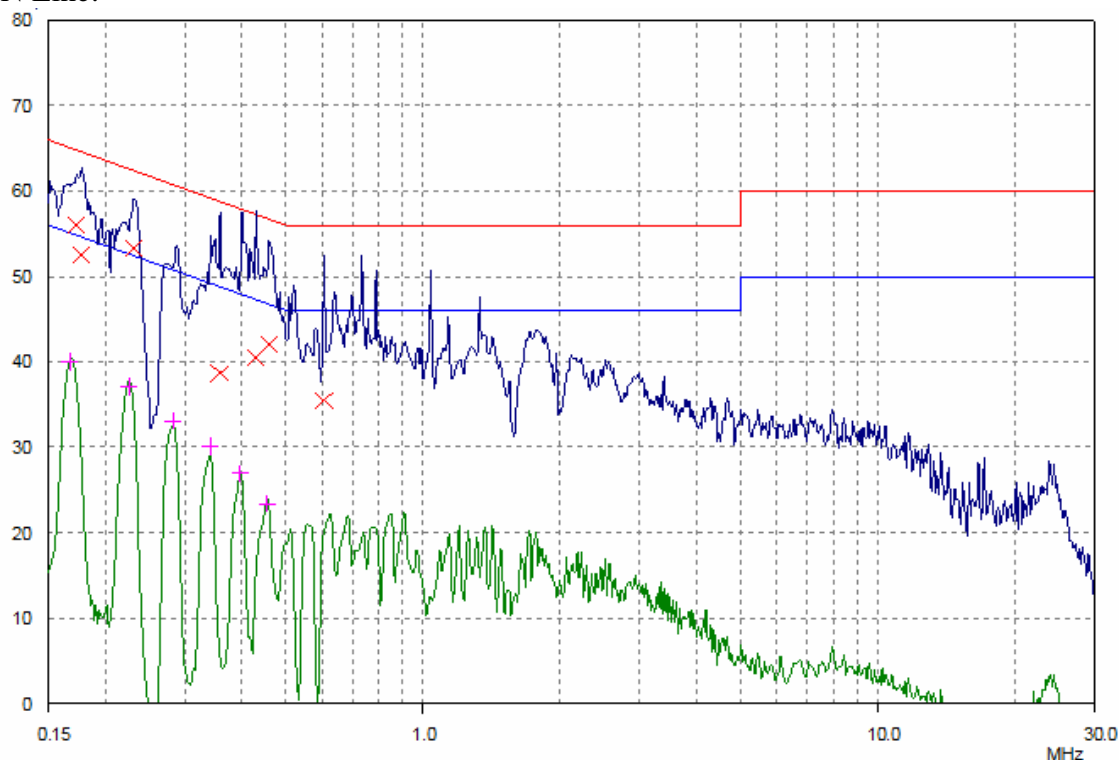
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N Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.17313	56.00	64.81	8.81
0.17732	52.60	64.61	12.01
0.23065	53.25	62.43	9.18
0.35751	38.67	58.79	20.12
0.42941	40.55	57.26	16.71
0.45768	42.01	56.73	14.72
0.6049	35.44	56.00	20.56

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.1677	39.99	55.07	15.08
0.2252	37.09	52.62	15.53
0.28149	33.08	50.77	17.69
0.34082	30.02	49.18	19.16
0.39653	26.93	47.93	21.00
0.45405	23.36	46.80	23.44

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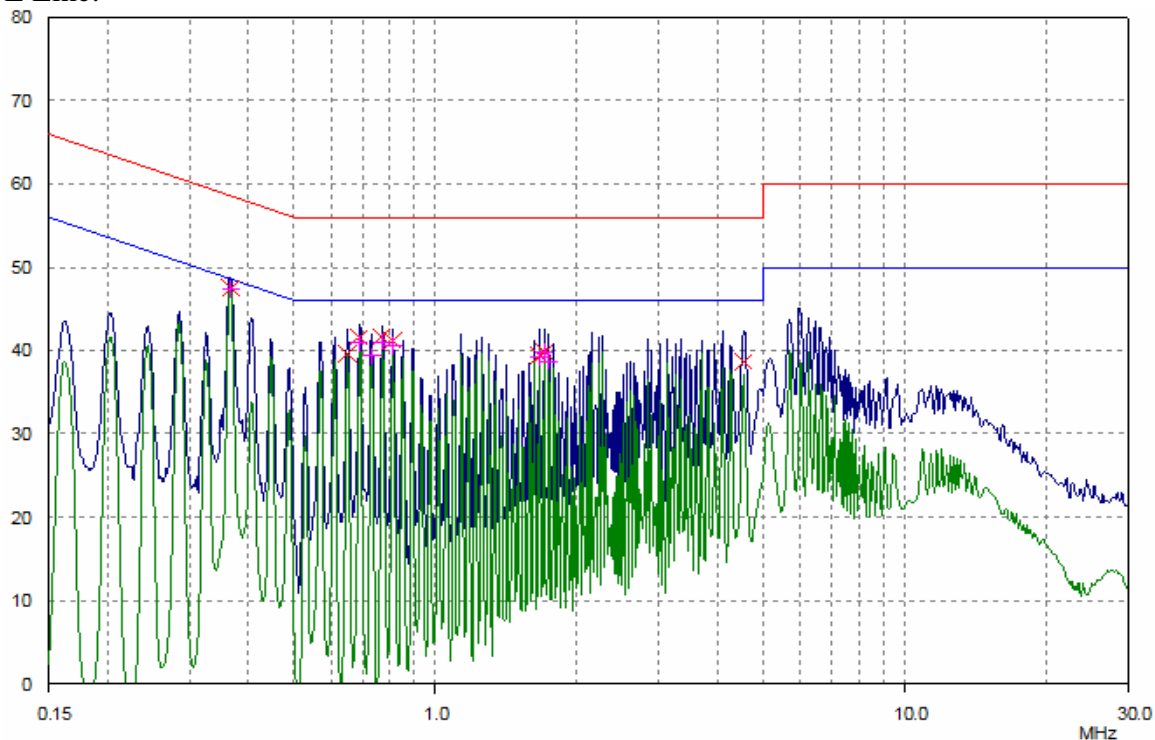
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PCS 1900 connected: (test Mobile with 3DS09371AAAA of Leader power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.36615	47.53	58.59	11.06
0.64987	39.62	56.00	16.38
0.68715	41.62	56.00	14.38
0.76824	41.70	56.00	14.30
0.81231	41.19	56.00	14.81
1.66407	39.39	56.00	16.61
1.70432	39.79	56.00	16.21
4.54149	38.65	56.00	17.35

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.36615	47.35	48.59	1.24
0.68715	40.90	46.00	5.10
0.73238	39.35	46.00	6.65
0.76824	40.98	46.00	5.02
0.81231	40.51	46.00	5.49
1.66407	39.13	46.00	6.87
1.70432	39.85	46.00	6.15
1.74556	38.65	46.00	7.35

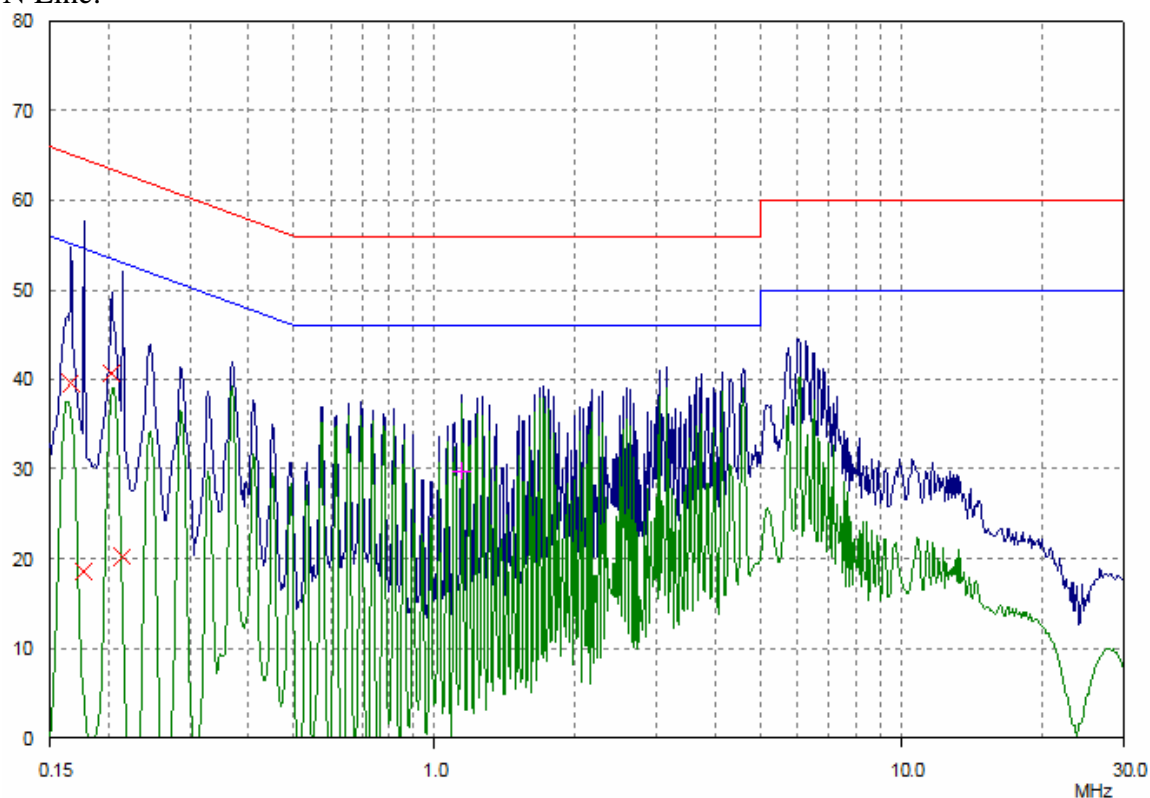
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N Line:



### Final Measurement Results

Frequency MHz	QP Level dB $\mu$ V	QP Limit dB $\mu$ V	QP Delta dB
0.16637	39.56	65.14	25.58
0.17732	18.55	64.61	46.06
0.20304	40.62	63.49	22.87
0.21469	20.23	63.02	42.79

Frequency MHz	AV Level dB $\mu$ V	AV Limit dB $\mu$ V	AV Delta dB
1.14426	29.67	46.00	16.33

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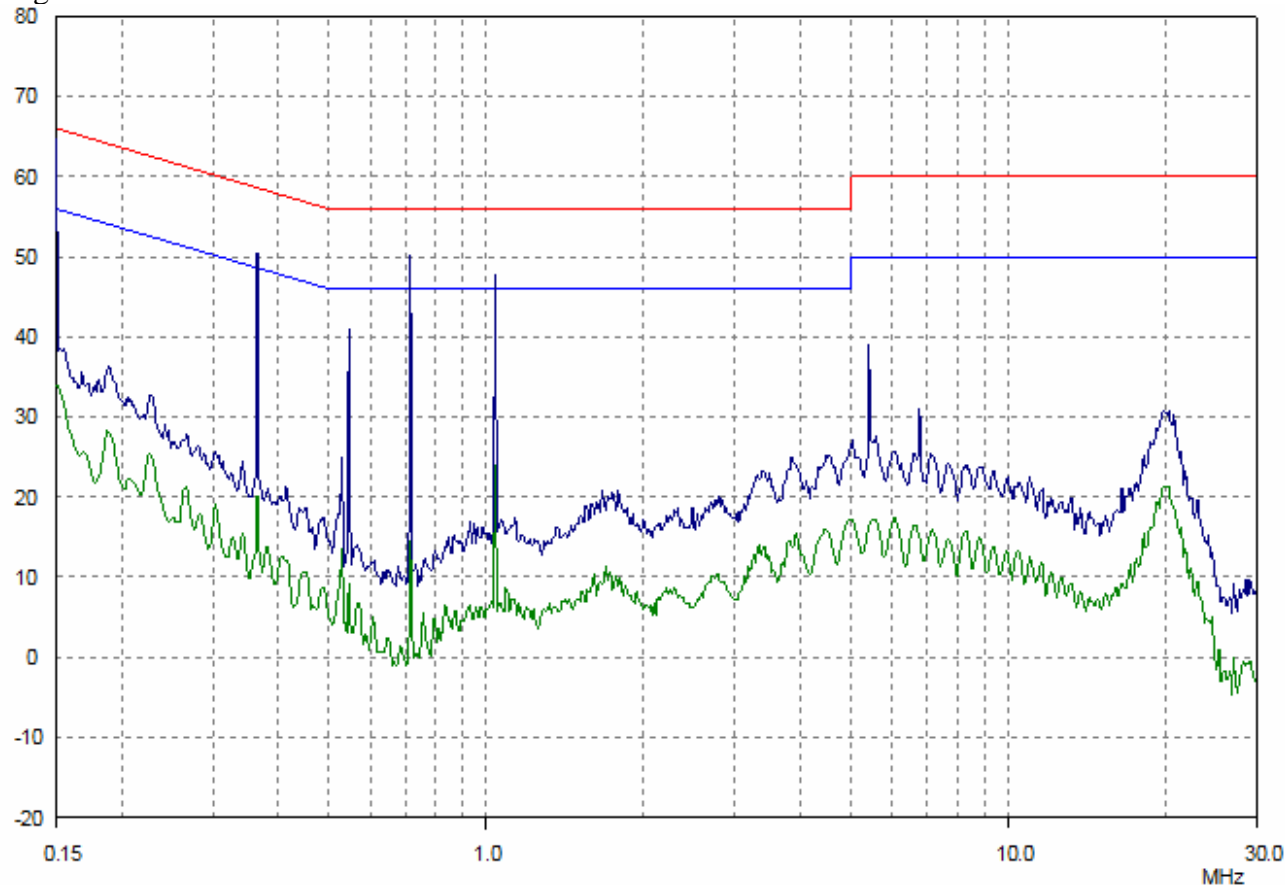
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PCS 1900 connected: (test Mobile with 3DS07848AAAA of Primax power adaptor and headset.)

Negative:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
0.543	*	56	*	*	46	*
5.00	*	56	*	*	46	*
10.00	*	60	*	*	50	*
22.00	*	60	*	*	50	*
30.00	*	60	*	*	50	*

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

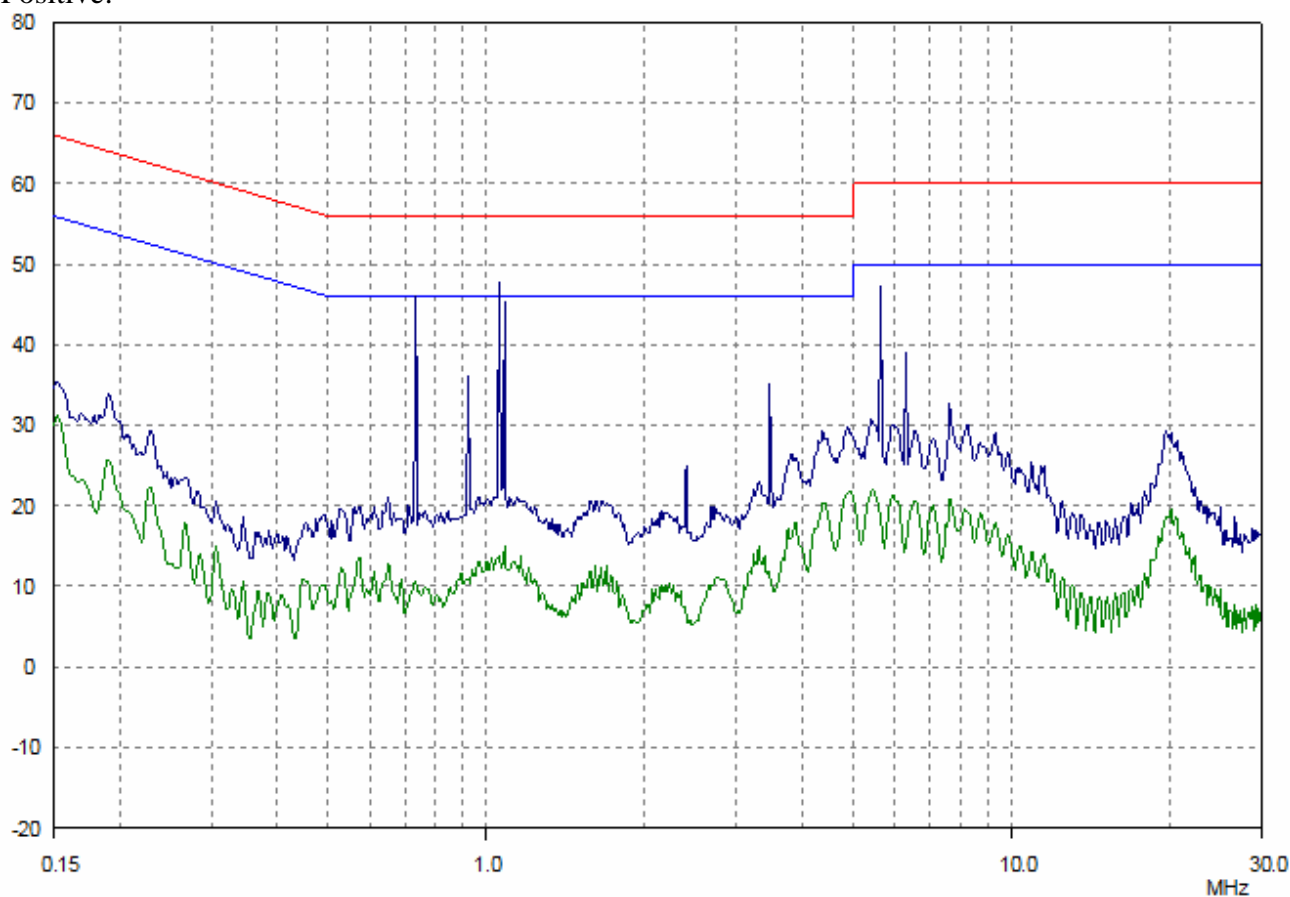
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Positive:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
0.543	*	56	*	*	46	*
5.00	*	56	*	*	46	*
10.00	*	60	*	*	50	*
22.00	*	60	*	*	50	*
30.00	*	60	*	*	50	*

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

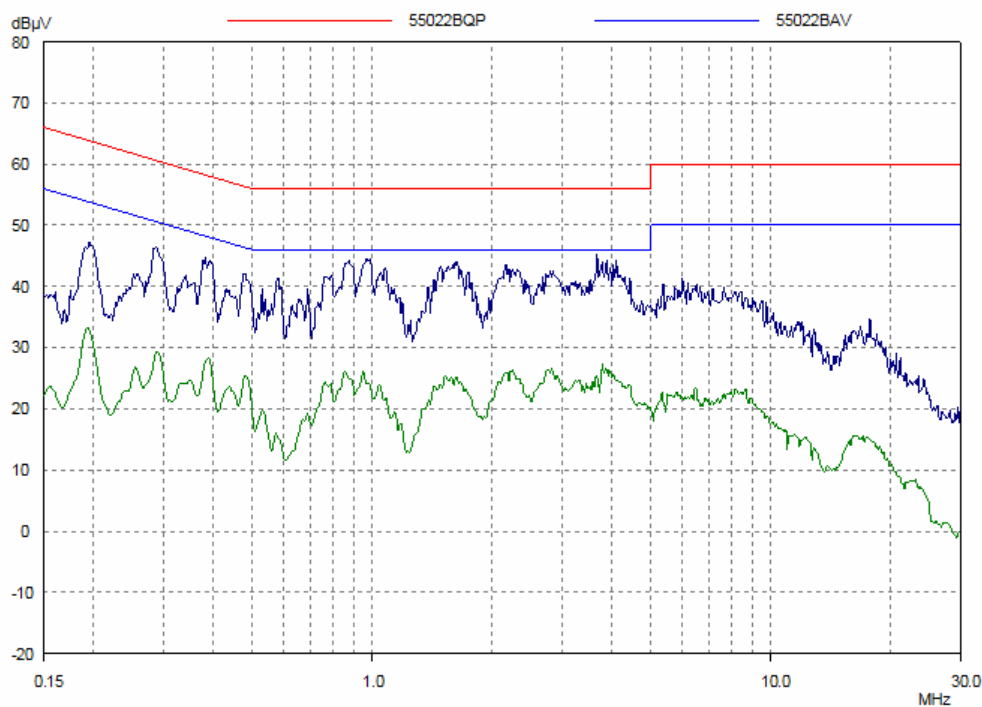
# SGS-CSTC Standards Technical Services Co., Ltd.

1/F, 7/F, 9/F, 10/F, the 3rd Building No. 889,  
Yishan Road, Xuhui District, Shanghai, China

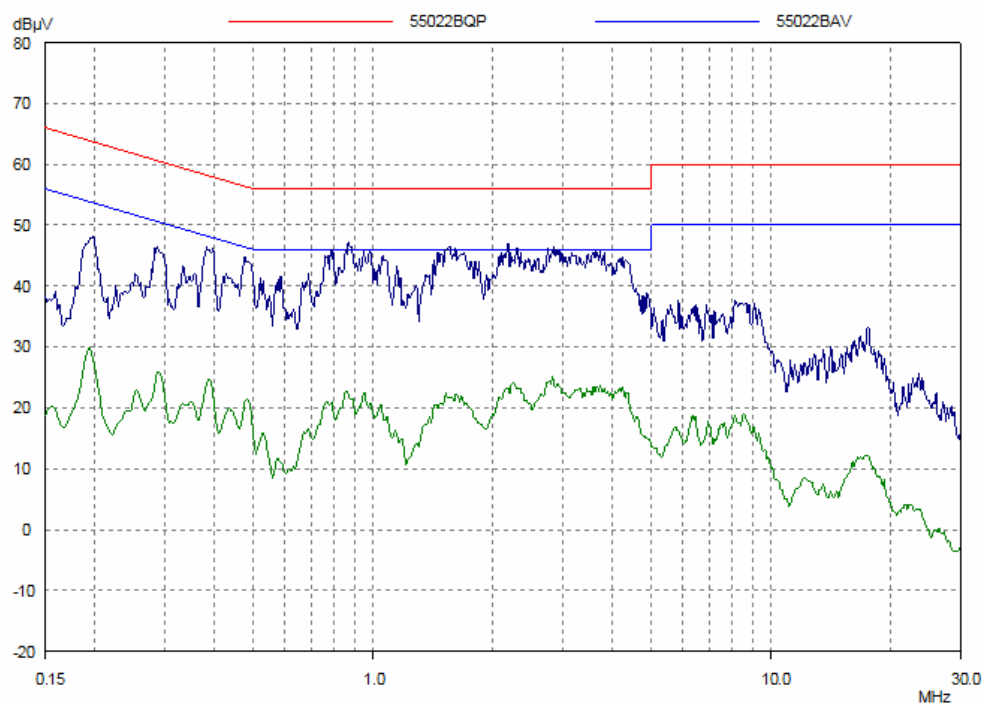
Telephone: +86 (0) 21 6495 1616  
Fax: +86 (0) 21 5450 0954  
Tino\_Pan@sgs.com

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GSM 850 dedicated, charging with adaptor (Tenpao: 3DS10628AGAA ) and earphone.  
L Line:



N Line:



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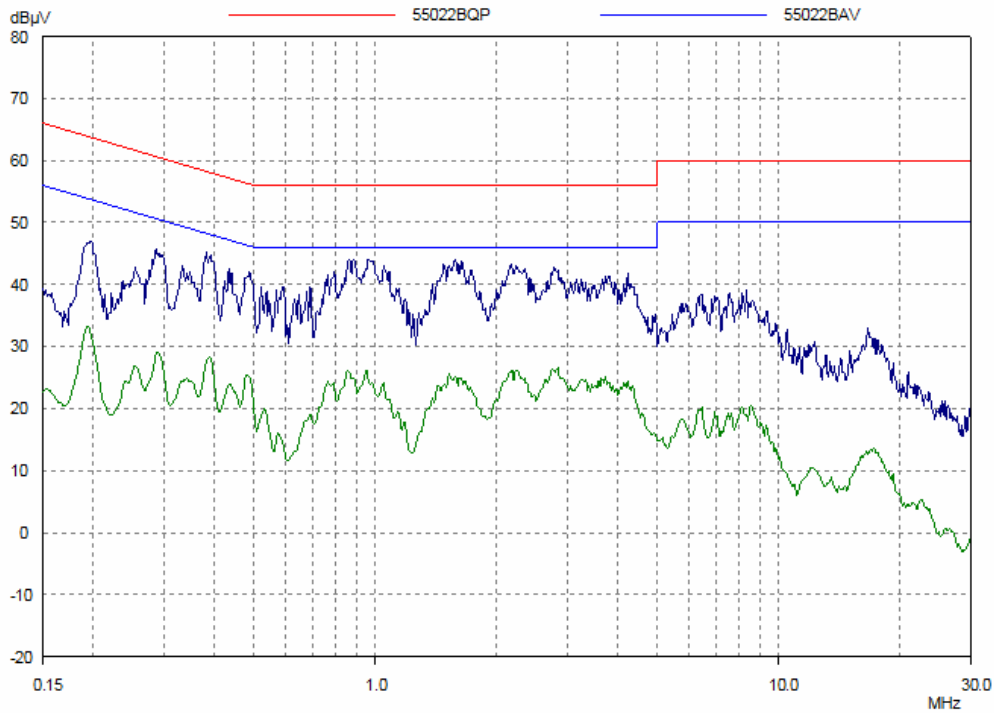
1/F, 7/F, 9/F, 10/F, the 3rd Building No. 889,  
Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6495 1616  
Fax: +86 (0) 21 5450 0954  
Tino\_Pan@sgs.com

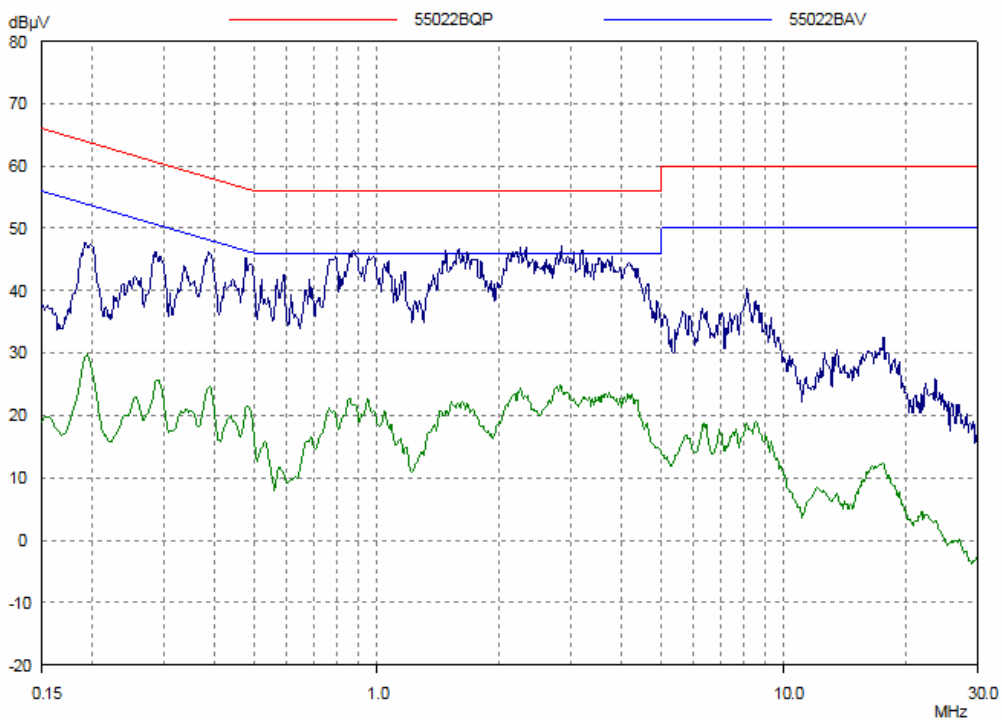
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PCS 1900 dedicated, charging with adaptor and earphone:

L Line:



N Line:



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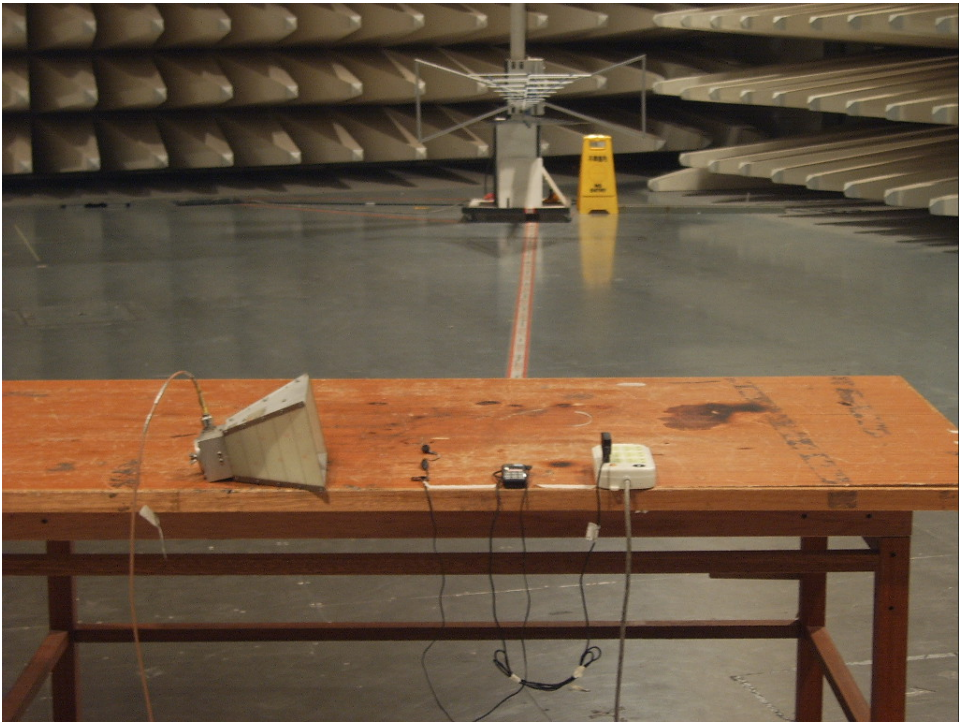
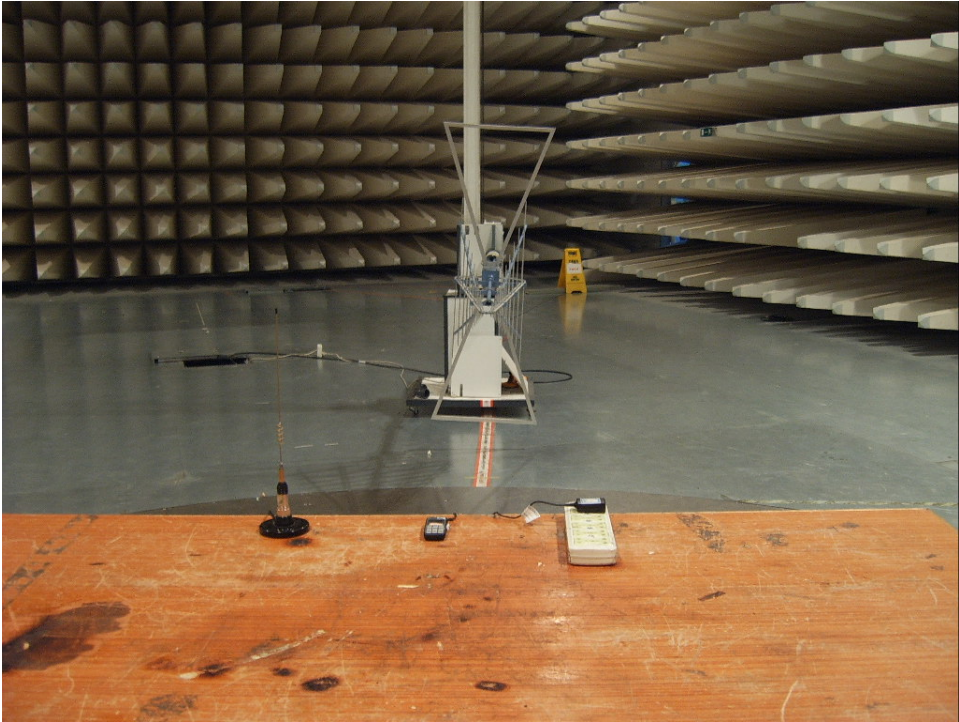
1/F, 7/F, 9/F, 10/F, the 3rd Building No. 889,  
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**7 Photographs**

**7.1 Radiated Emission Test Setup**



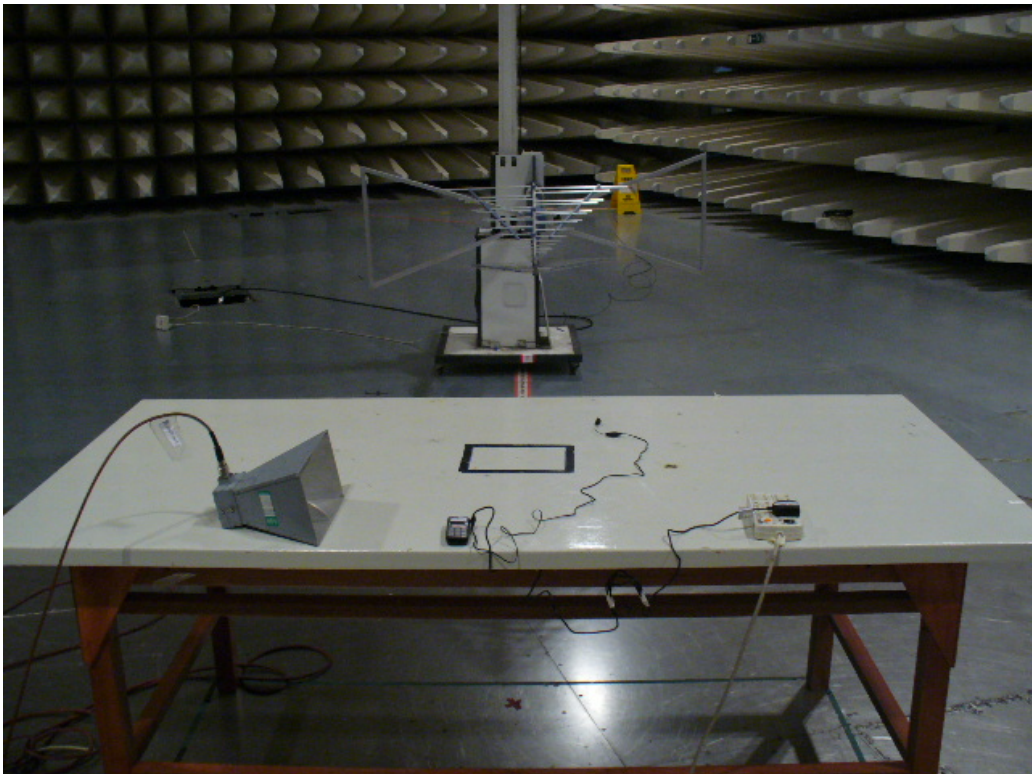
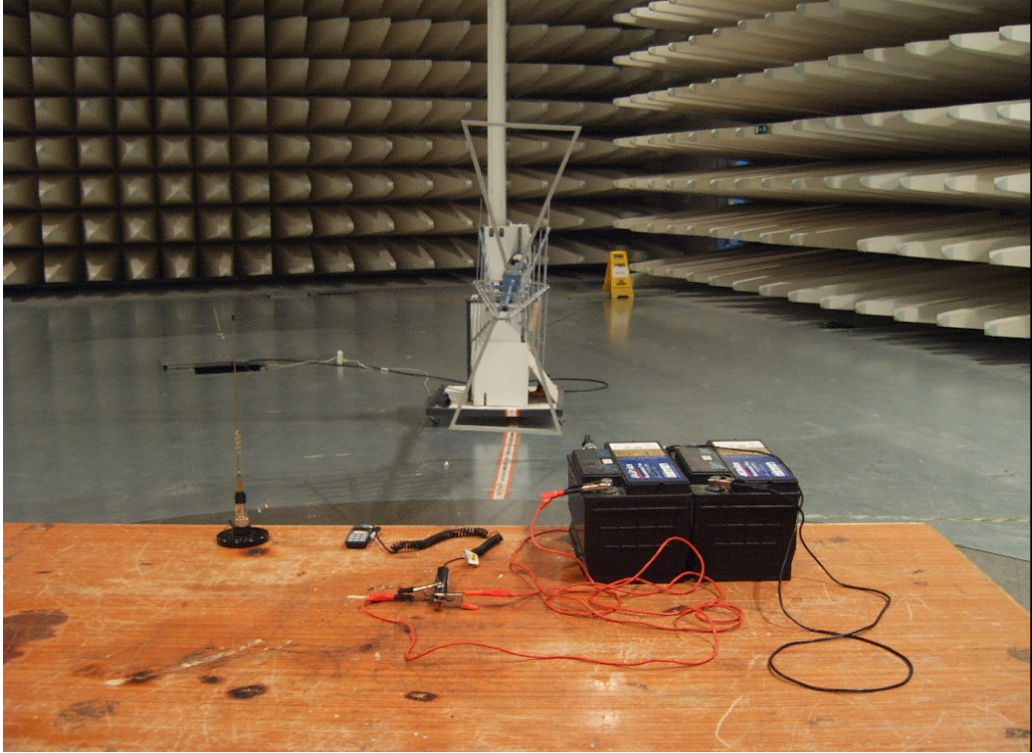


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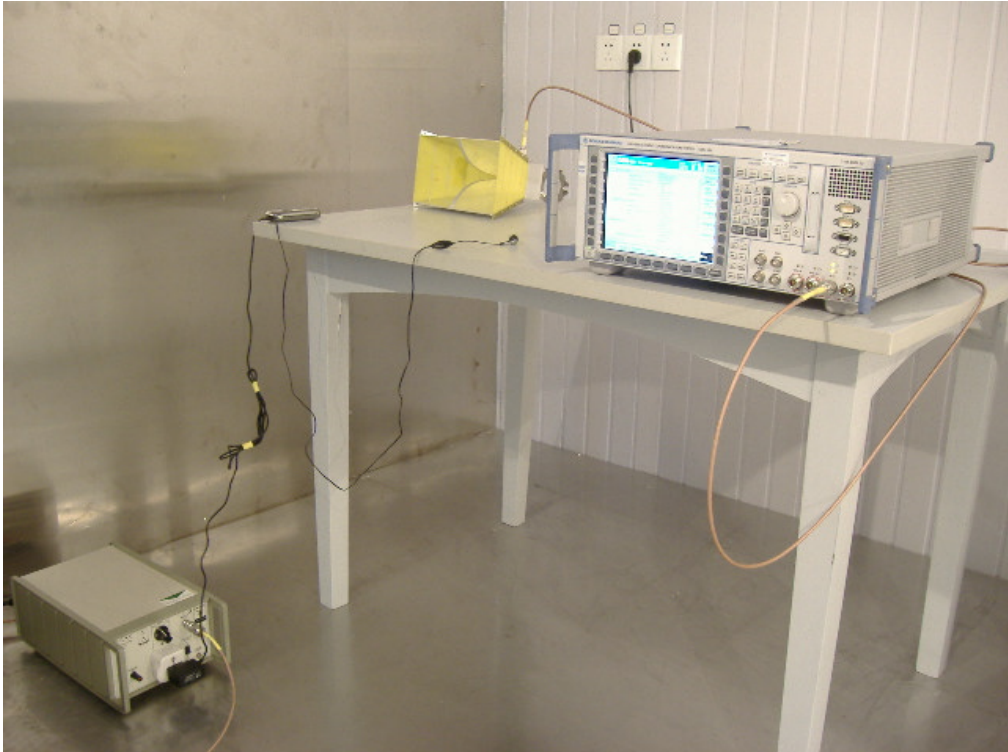
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## 7.2 Conducted emission



## 7.3 EUT Constructional Details



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Adapter: 3DS10628AGAA(Tenpao)



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Adapter: 3DS10628AHAA(Tenpao)



**THE END OF REPORT**