

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

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Report No.: SHEMO070400009IT  
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## ***FCC TEST REPORT***

**Application No.:** SHEMO070400009IT

**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.:** U71A

**Marketing Name:** OT-E101A

**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:** April 12, 2007

**Date of Test:** April 12, 2007 to April 25, 2007

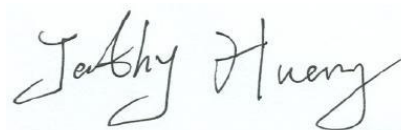
**Date of Issue:** April 27, 2007

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

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

<b>Test</b>	<b>Test Requirement</b>	<b>Test Method</b>	<b>Class / Severity</b>	<b>Result</b>
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: 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.: U71A  
Marketing Name: OT-E101A  
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: 3DS09371AGAA Input: AC 110V-127V~, 50/60Hz 0.15A Output:DC 4.5V, 350mA)  
Manufactures: Leader  
Power Cord01: 2m  
Power Supply02: AC to DC charger (Model NO: T5001297AGAA Input: AC 100V-240V~, 50/60Hz 100mA Output:DC 4.5V, 300mA)  
Manufactures: Tenpao  
Power Cord02: 2m  
Power Supply03: AC to DC charger (Model NO: 3DS10628AGAA Input: AC 100V-240V~, 50/60Hz 100mA Output: DC 4.5V, 350mA)  
Manufactures: Tenpao  
Power Cord03: 2m  
Earphone Model NO: T5001349AAAA  
Battery DC 3.7V / 720mAh  
P/N: T5001296AAAA

### 4.4 Description of Support Units

Name / Function	Model No	Remark
N/A	N/A	N/A

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## 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

**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	2006.07.24	2007.07.23
2	BROADBAND ANTENNA	R&S	HL 562	100019	2006.10.10	2007.10.09
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2006.08.13	2007.08.13
4	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2006.09.01	2007.08.31

**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	2006.08.28	2007.08.27
2	ARTIFICIAL MAINS NETWORK	R&S	ESH2-Z5	100030	2006.09.19	2007.09.18
3	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2006.09.01	2007.08.31

**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	2006.07.25	2007.07.24
2	DMM	Fluke	73	70681569 or 70671122	2006.07.23	2007.07.22

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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:	April 12, 2007 to April 25, 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)

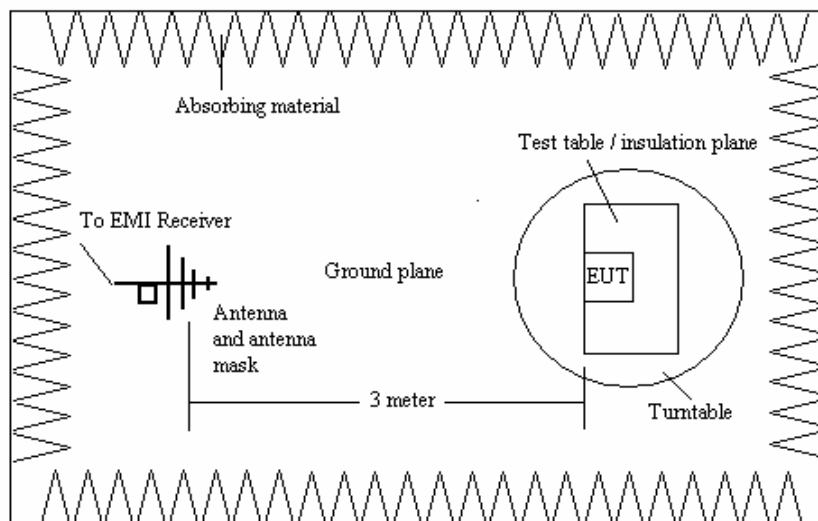
#### 6.1.1 E.U.T. Operation

Operating Environment:

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

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

#### 6.1.2 Test setup:





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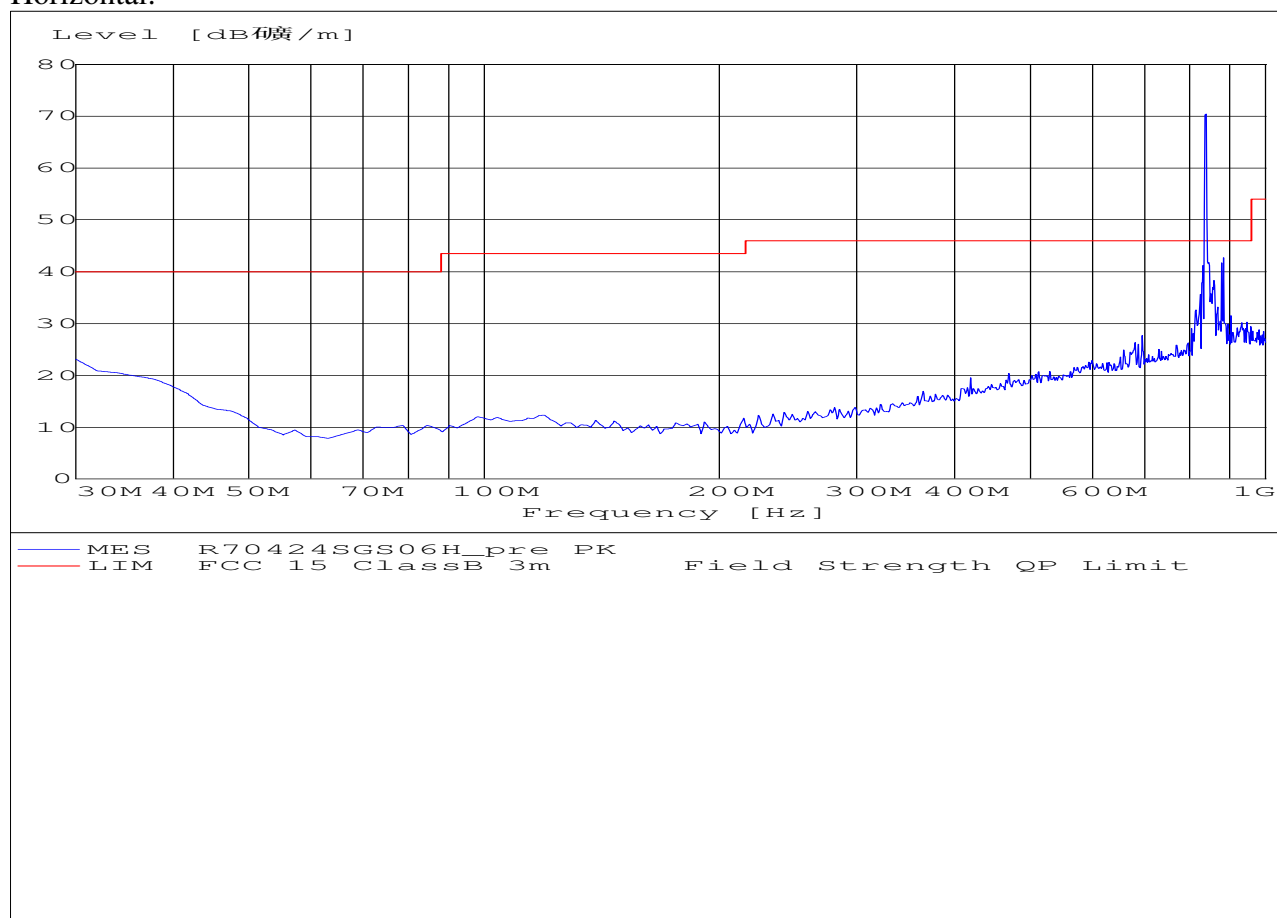
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## 6.1.3 Test Result:

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

Horizontal:



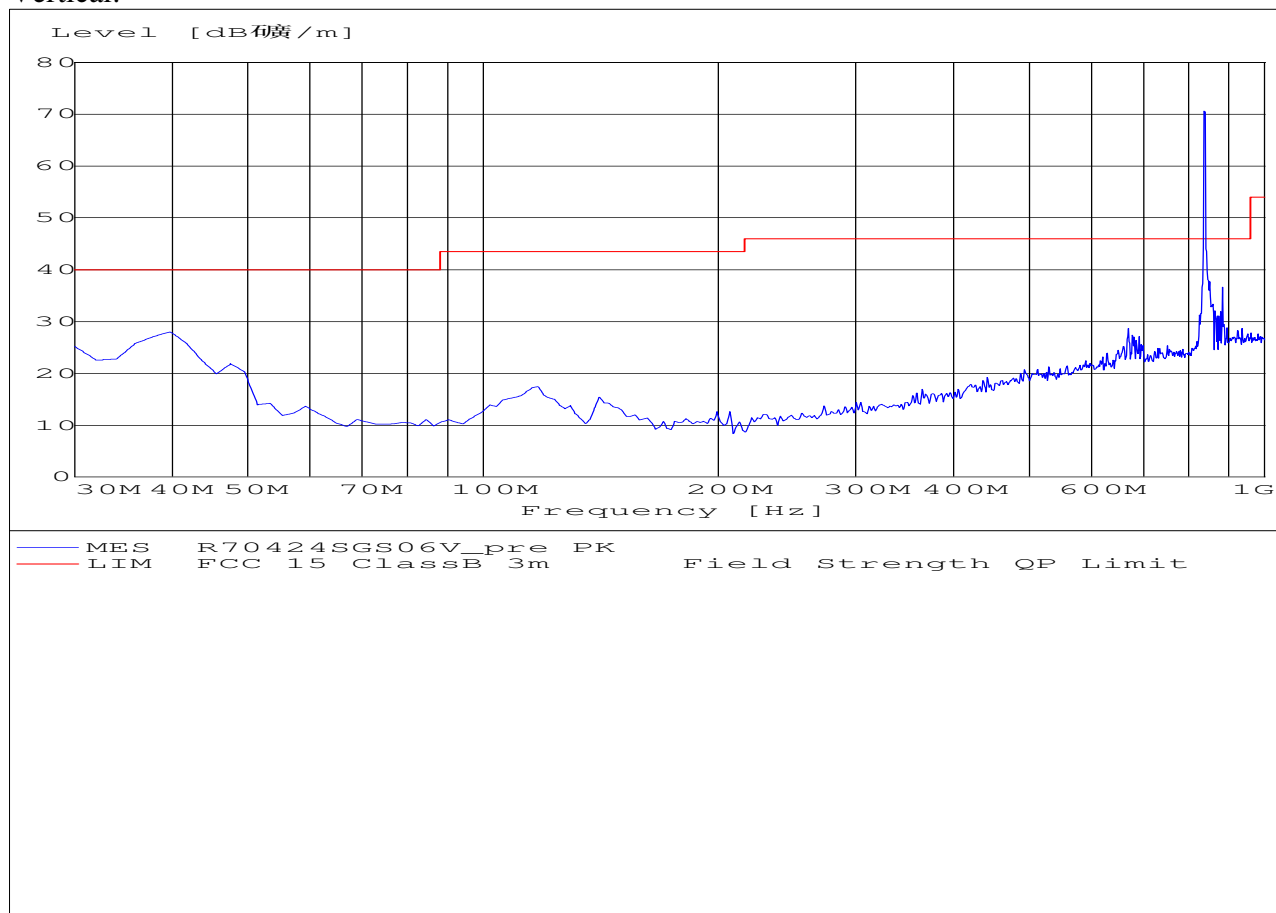
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## Vertical:



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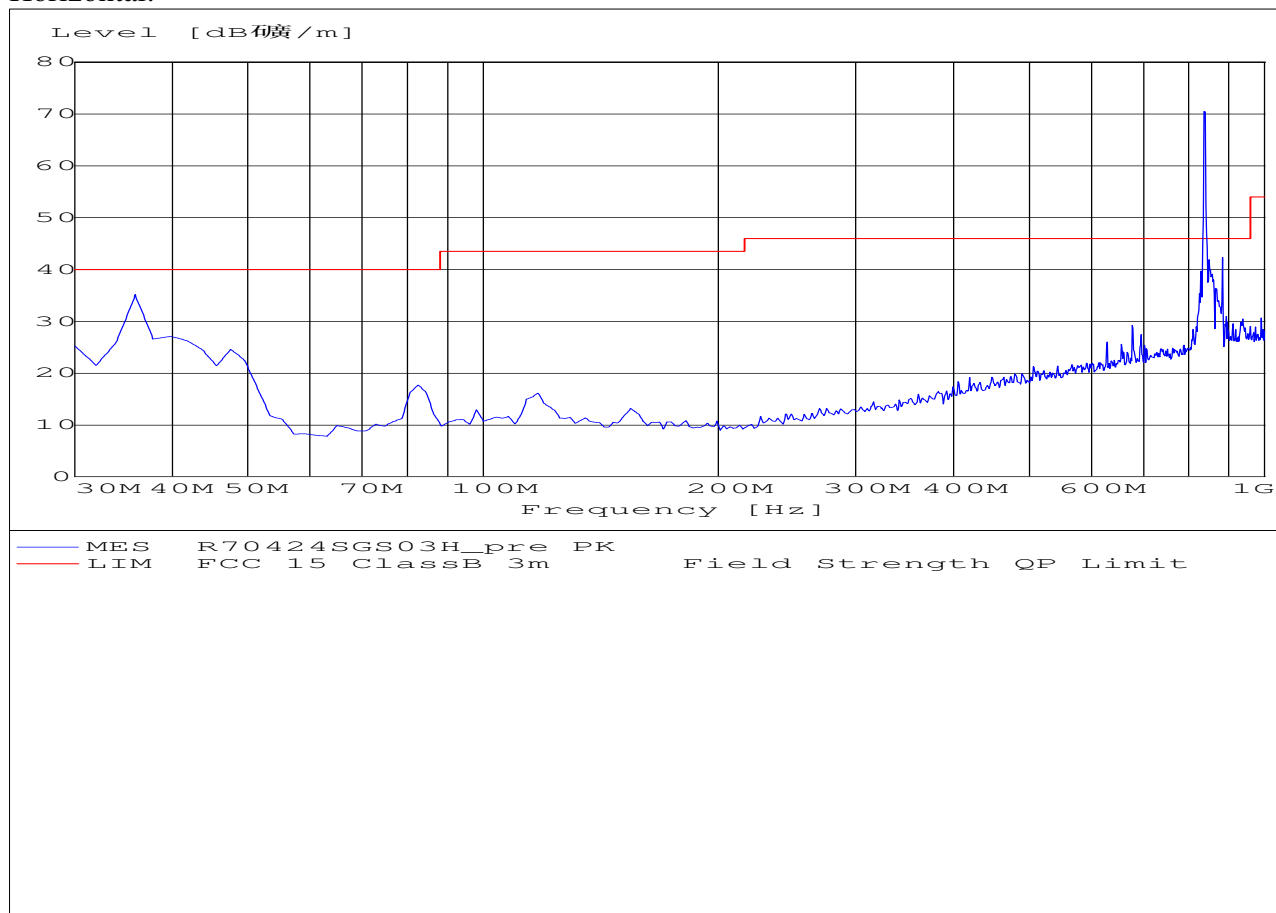
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GSM 850 connected: (test Mobile with 3DS10628AGAA of Tenpao power adaptor and headset.)

Horizontal:



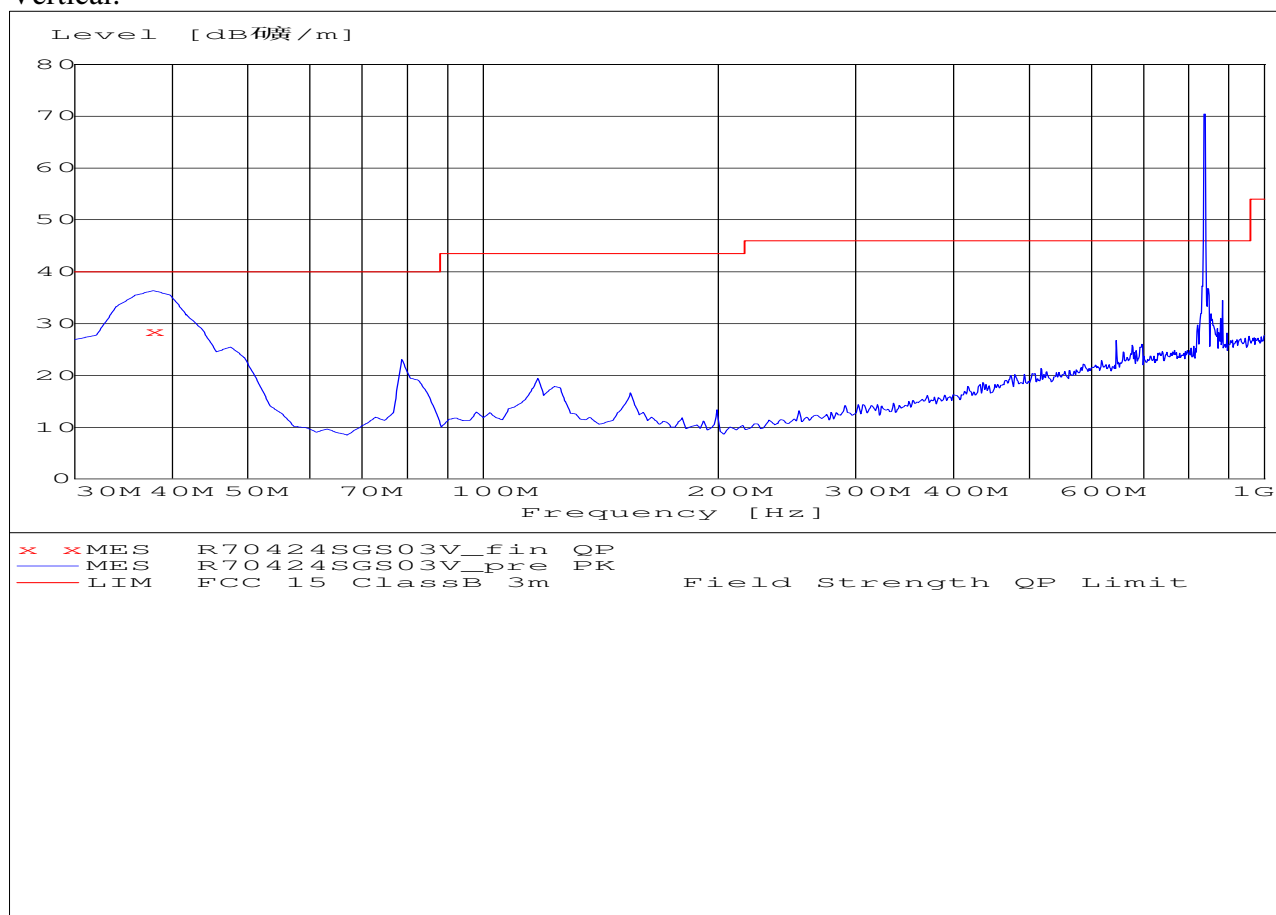
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Vertical:



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	
37.77551	28.37	100.0	90.00	VERTICAL

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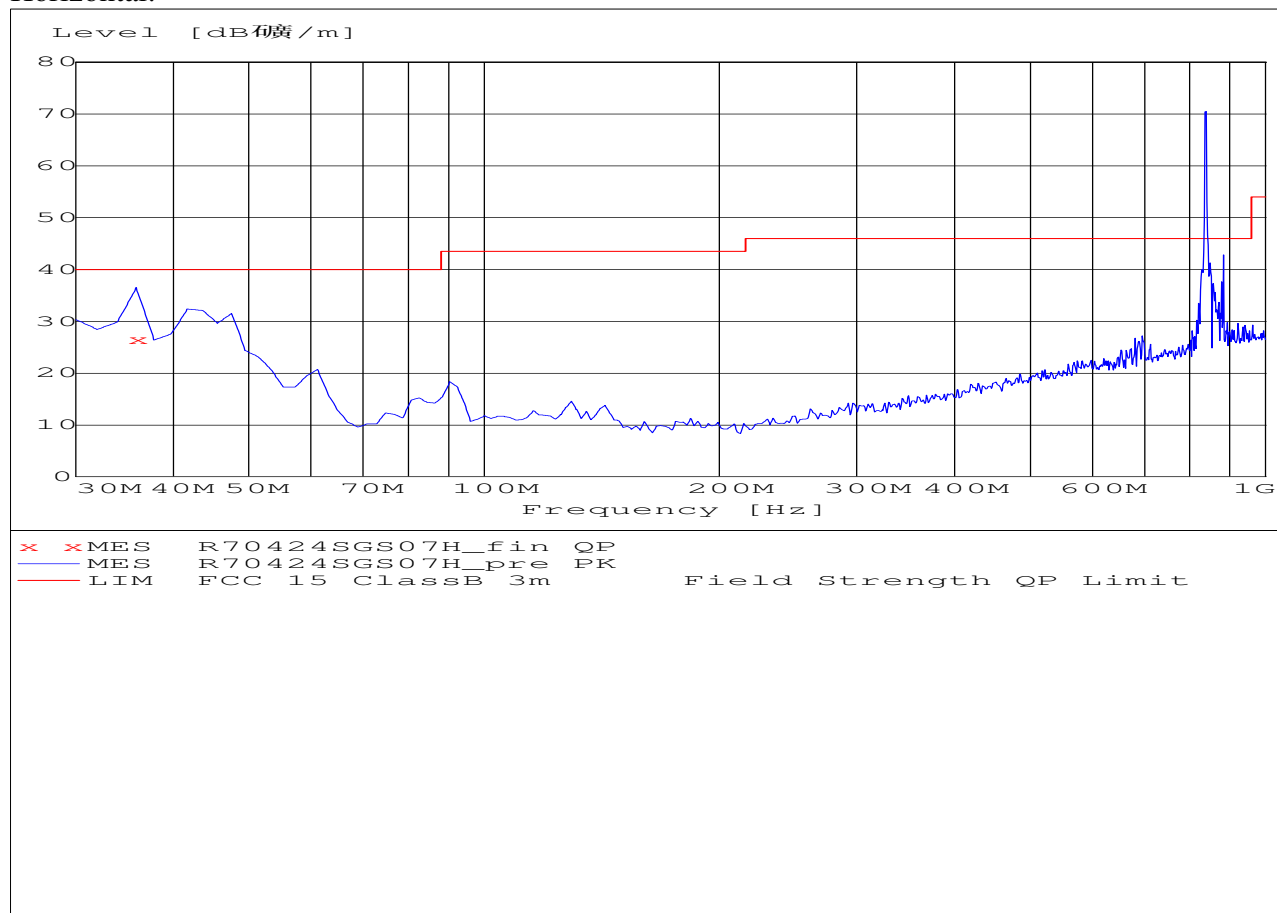
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GSM 850 connected: (test Mobile with T5001297AGAA of Tenpao power adaptor and headset.)

Horizontal:



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	
35.831663	26.45	100.0	0.00	HORIZONTAL

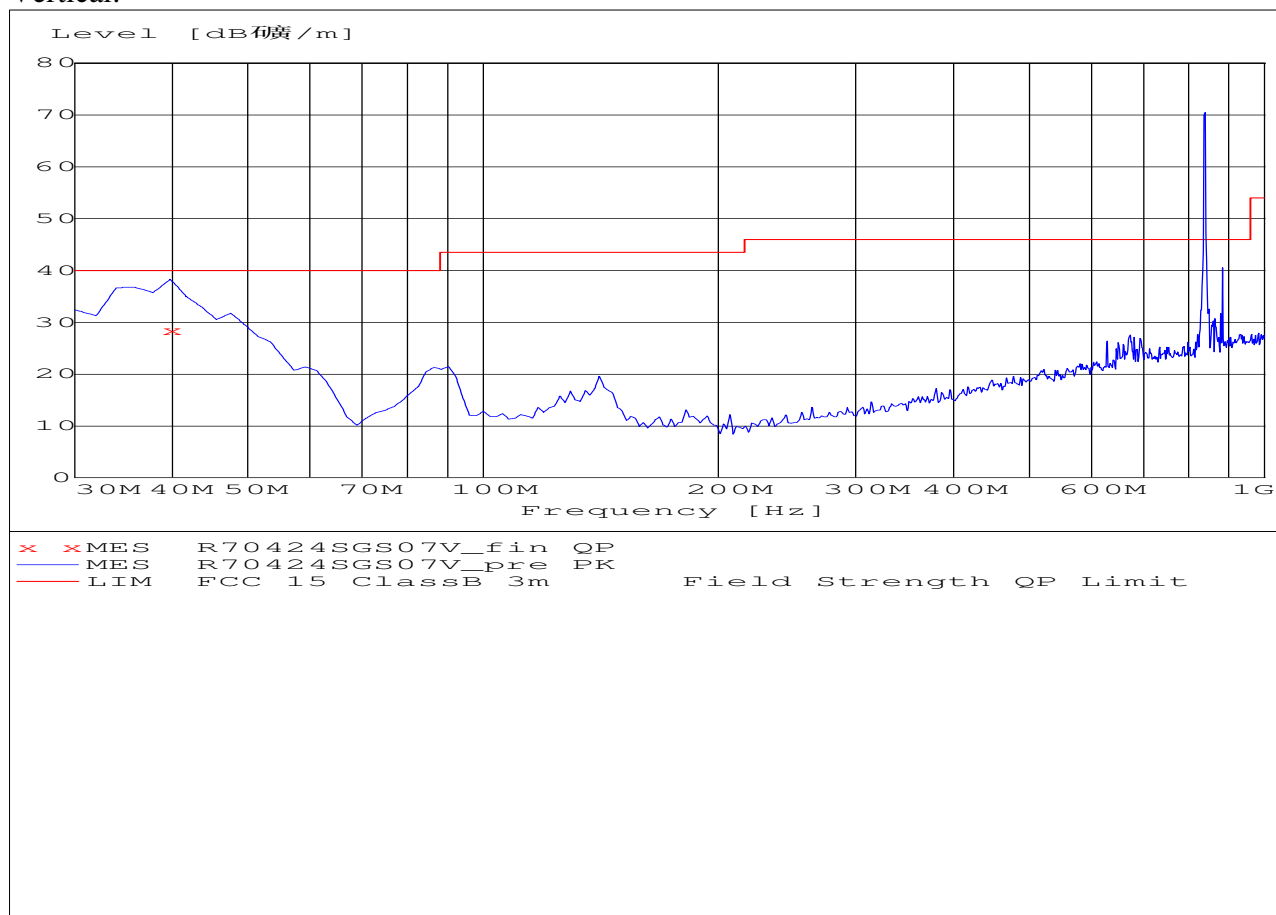
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## Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation
39.719439	28.32	100.0	180.00	VERTICAL

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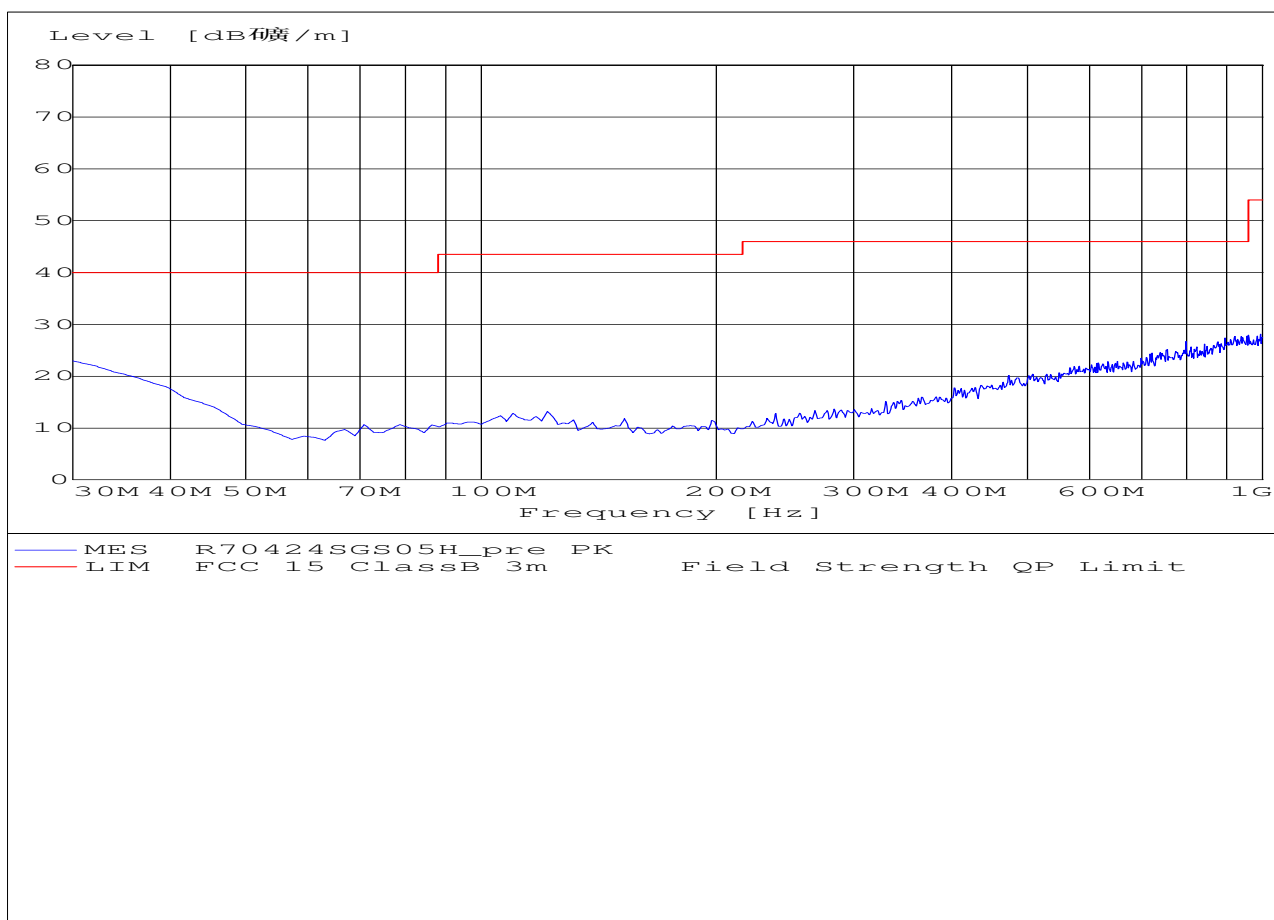
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PCS 1900 connected: (test Mobile with 3DS09371AGAA of Leader power adaptor and headset.)

Horizontal:



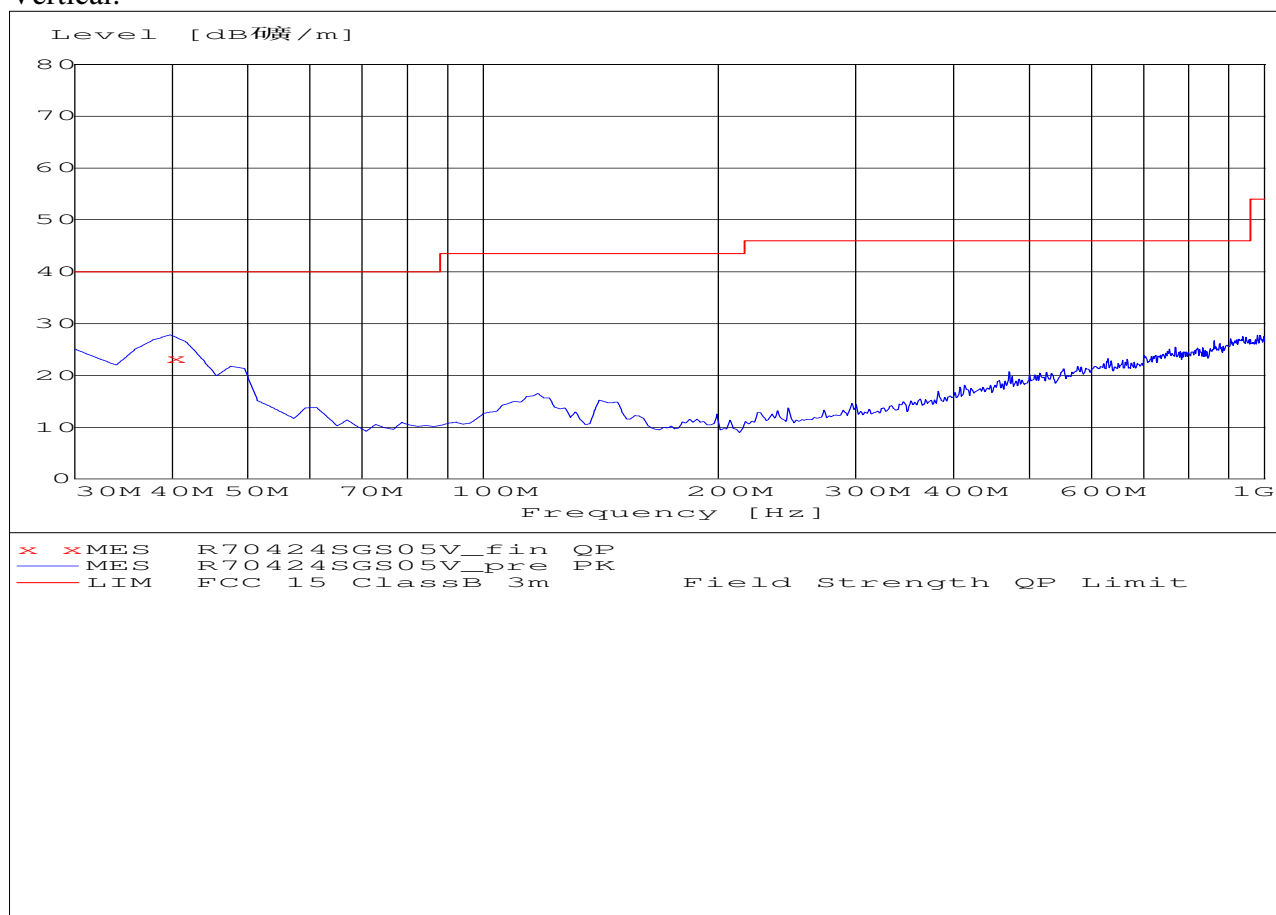
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## Vertical:



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	
40.150301	23.30	100.0	180.00	VERTICAL



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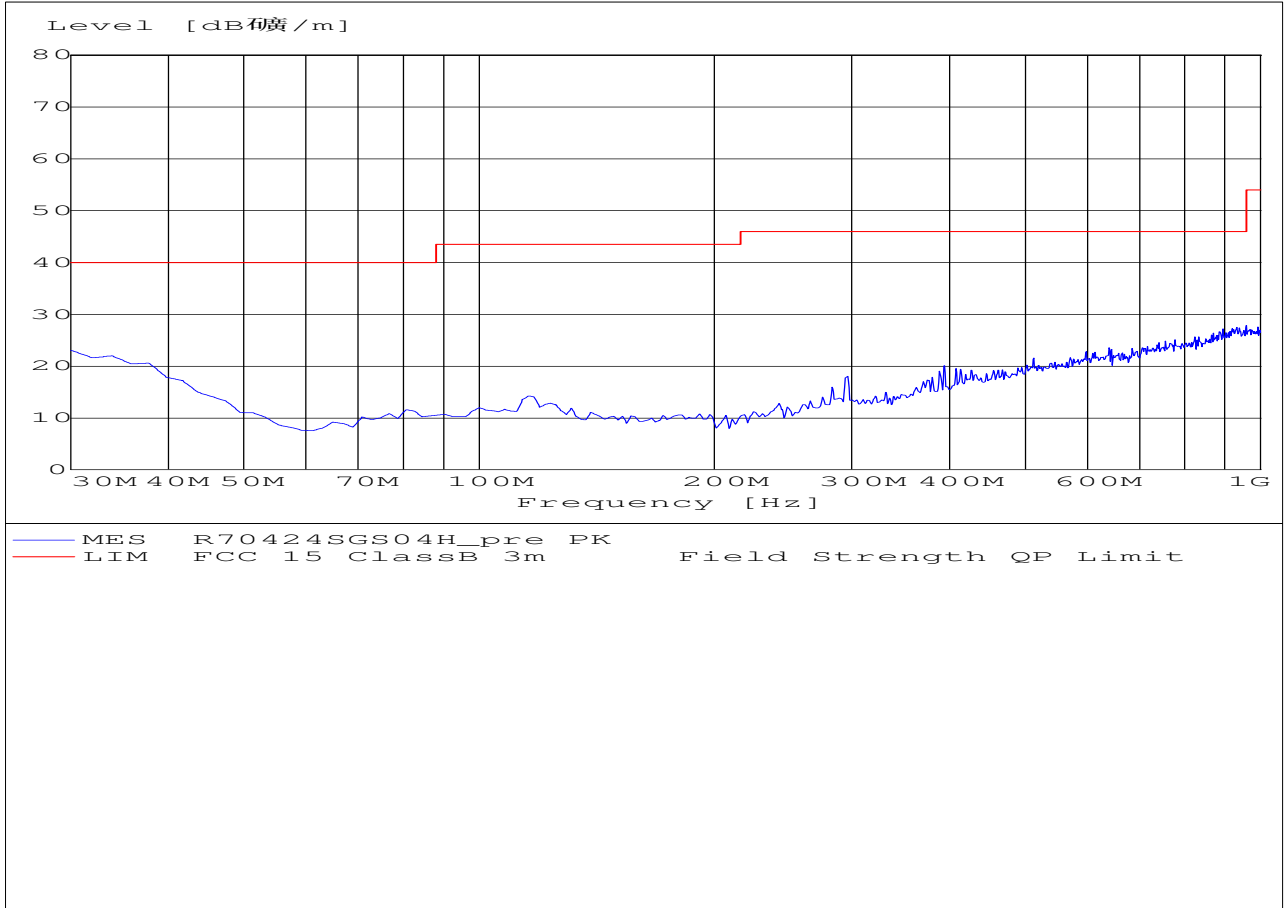
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PCS 1900 connected: (test Mobile with 3DS10628AGAA of Tenpao power adaptor and headset.)

Horizontal:



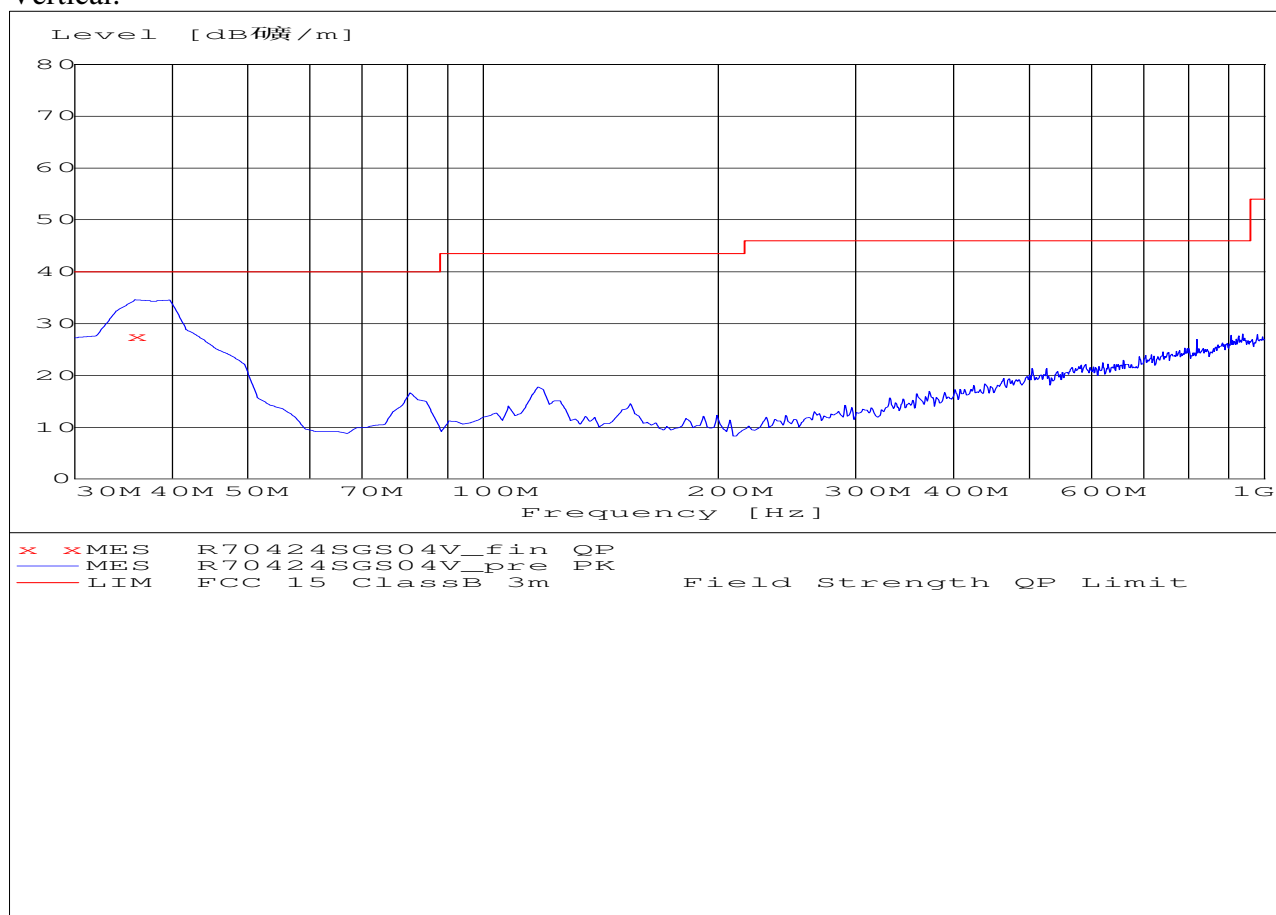
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## Vertical:



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

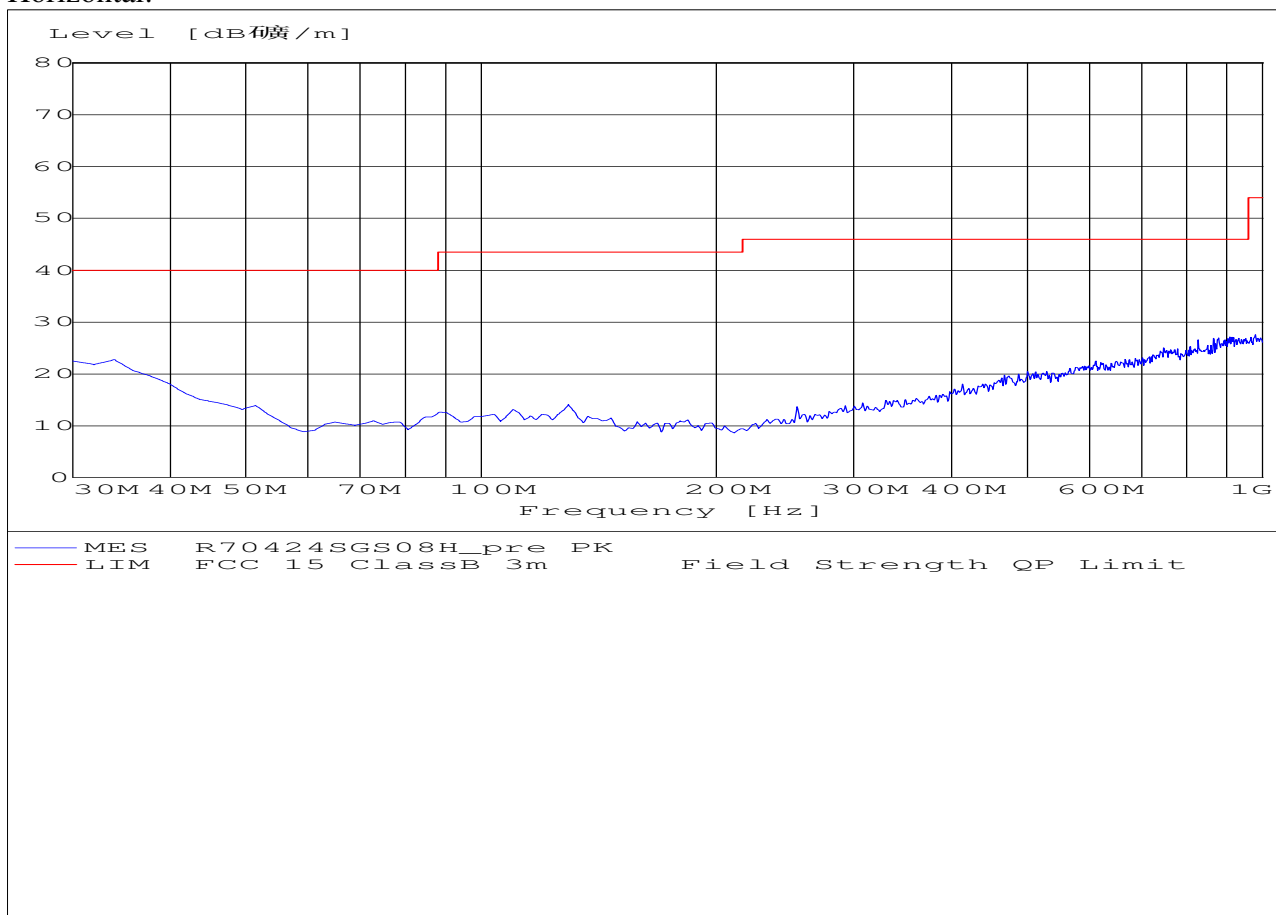
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PCS 1900 connected: (test Mobile with T5001297AGAA of Tenpao power adaptor and headset.)  
Horizontal:



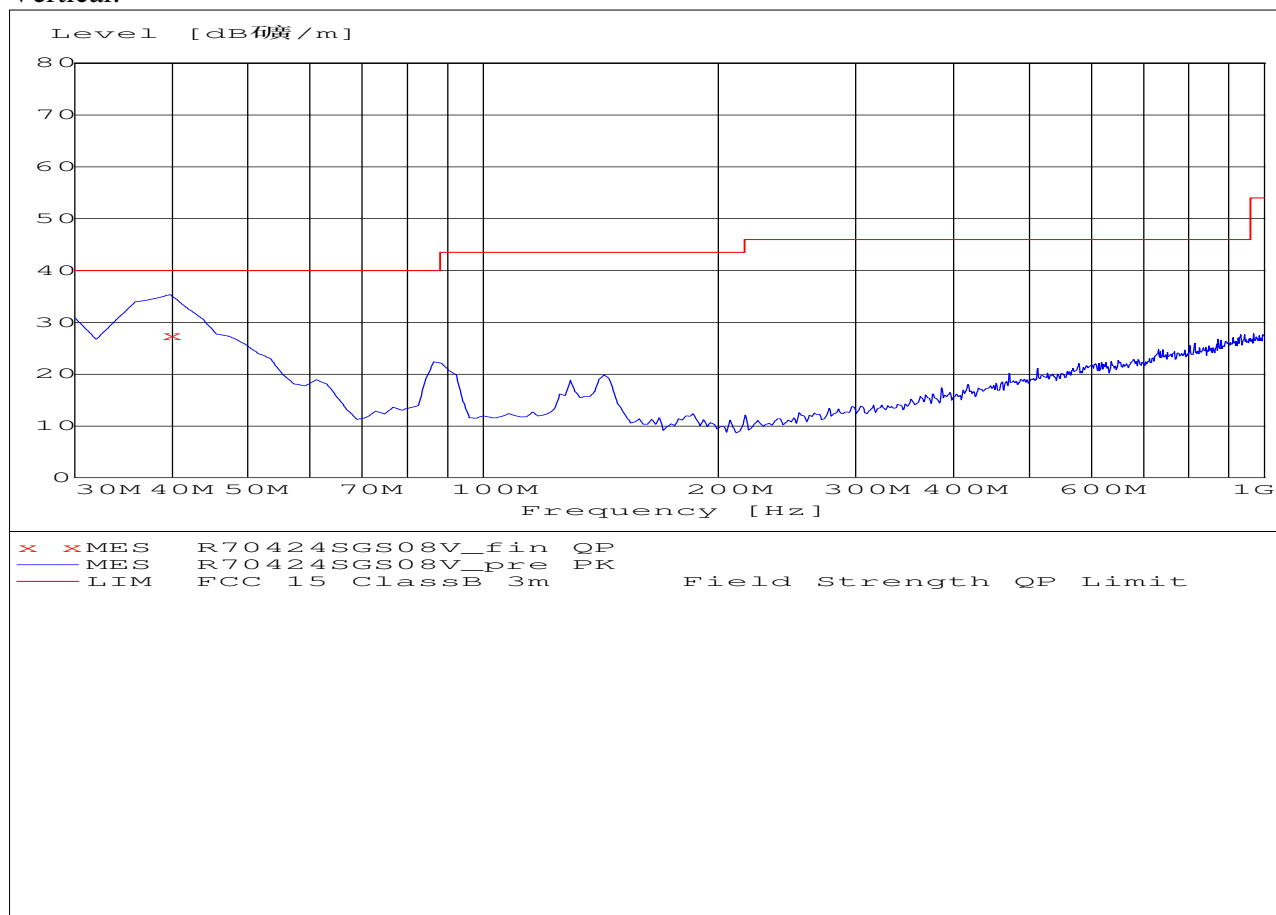
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## Vertical:



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	

39.719439	27.36	100.0	90.00	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:	April 12, 2007 to April 25, 2007
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: 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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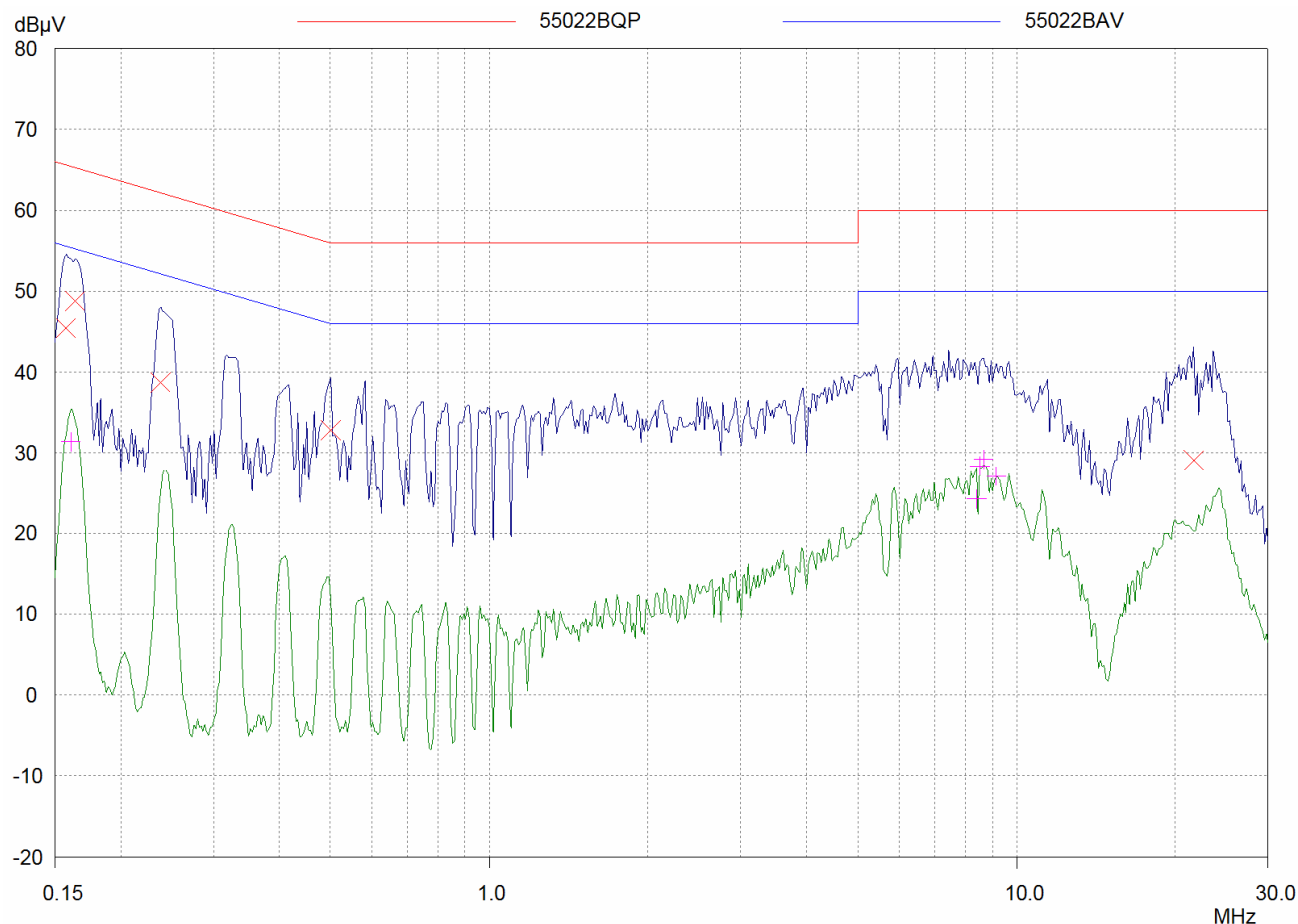
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GSM 850 connected: (test Mobile with T5001297AGAA of Tenpao power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15734	45.41	65.60	20.19
0.16374	48.76	65.27	16.51
0.23812	38.75	62.16	23.41
0.49961	32.83	56.01	23.18
21.65026	29.12	60.00	30.88

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.16115	31.39	55.40	24.01
8.38801	24.17	50.00	25.83
8.52277	28.32	50.00	21.68
8.65968	29.20	50.00	20.80
9.15642	27.04	50.00	22.96

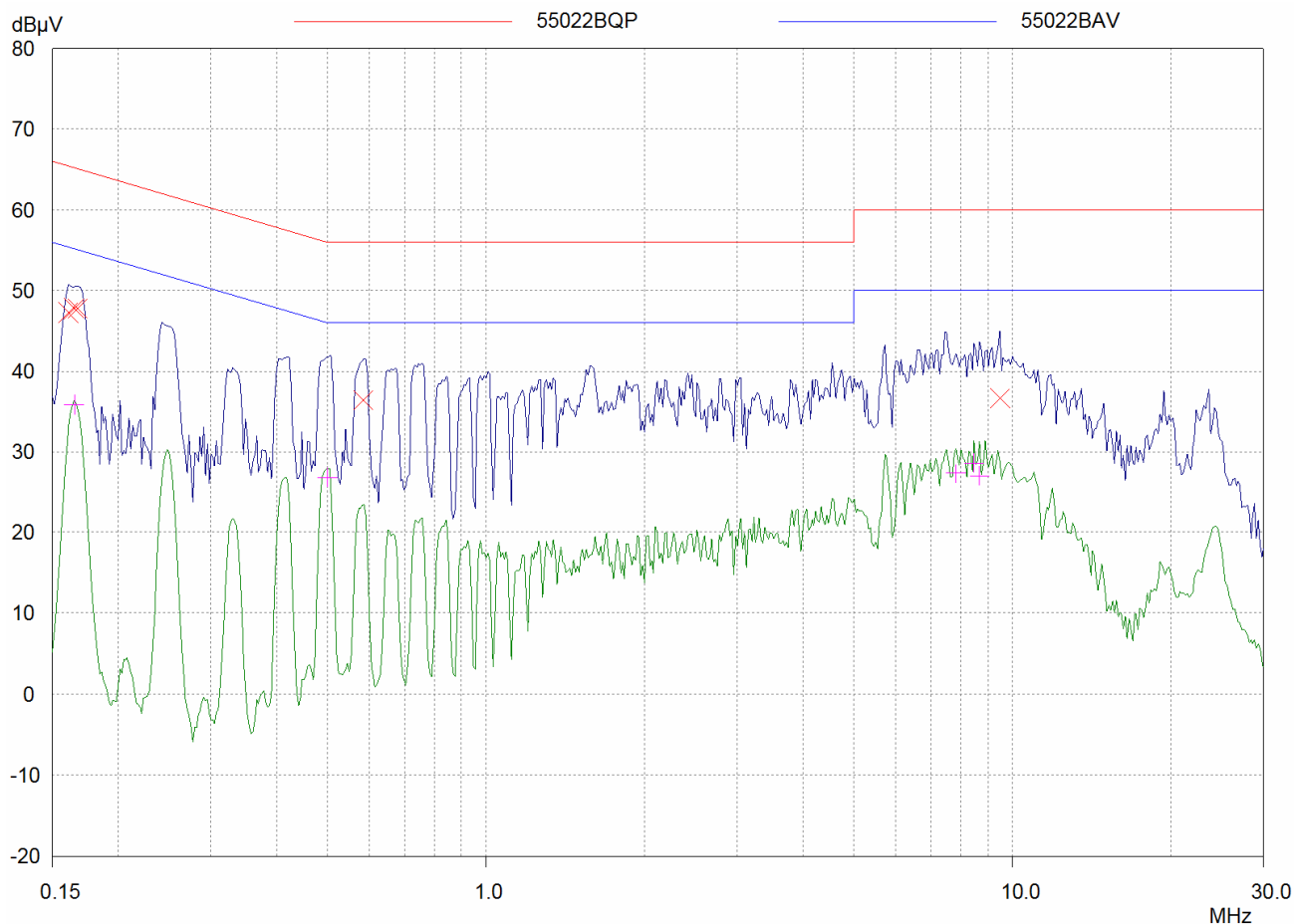
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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.16115	47.25	65.40	18.15
0.16505	47.76	65.21	17.45
0.1677	47.76	65.07	17.31
0.58592	36.42	56.00	19.58
9.45296	36.60	60.00	23.40

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.16505	35.87	55.21	19.34
0.49961	26.74	46.01	19.27
7.80755	27.24	50.00	22.76
8.45513	28.56	50.00	21.44
8.65968	26.90	50.00	23.10

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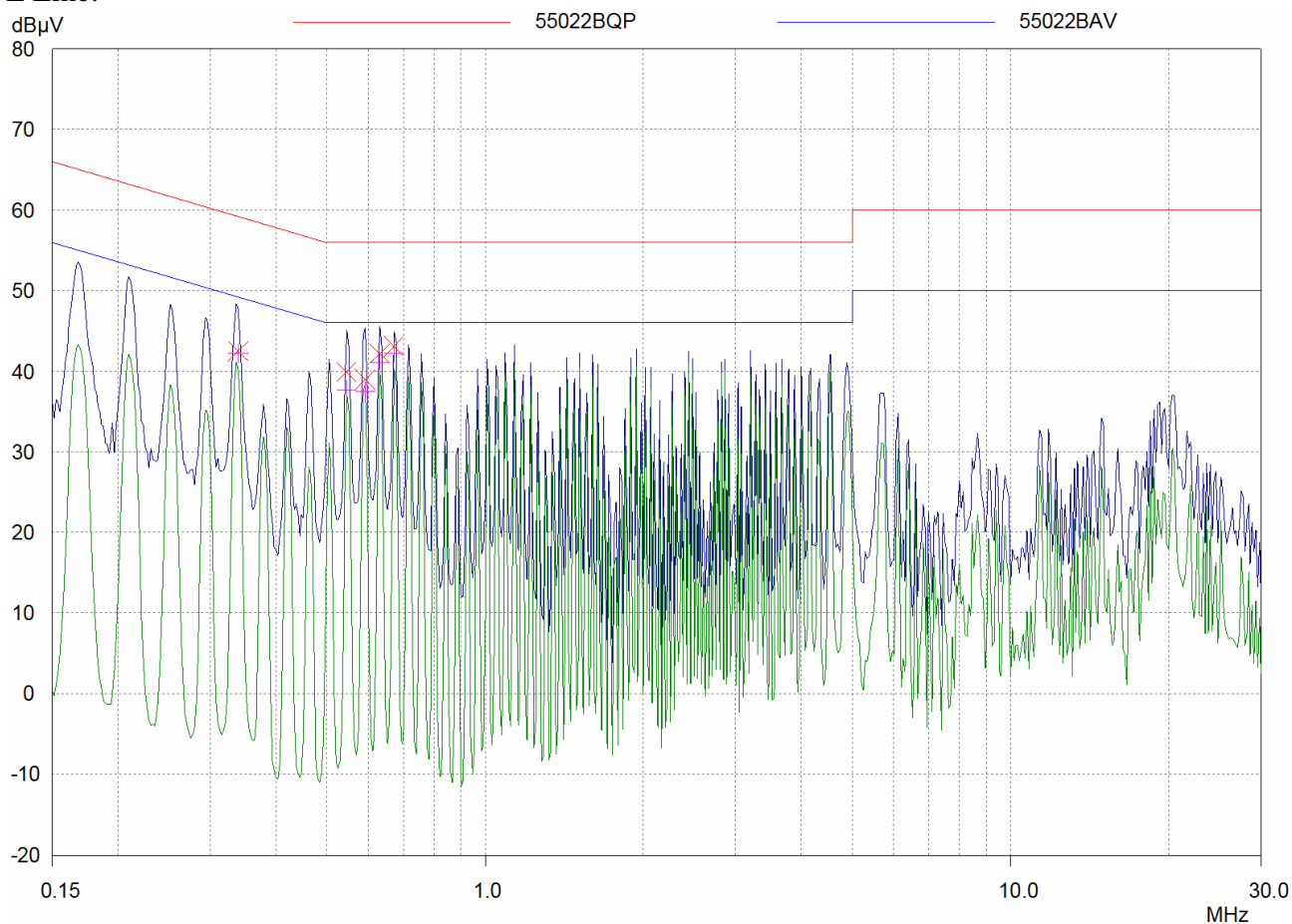
1/F, 7/F, 9/F, 10/F, the 3rd Building No. 889,  
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GSM 850 connected: (test Mobile with 3DS09371AGAA of Leader power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.33811	42.50	59.25	16.75
0.54537	39.93	56.00	16.07
0.59061	39.02	56.00	16.98
0.62948	42.22	56.00	13.78
0.67092	43.11	56.00	12.89

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.33811	42.22	49.25	7.03
0.54537	37.66	46.00	8.34
0.59061	37.49	46.00	8.51
0.62948	41.08	46.00	4.92
0.67092	42.27	46.00	3.73

N Line:

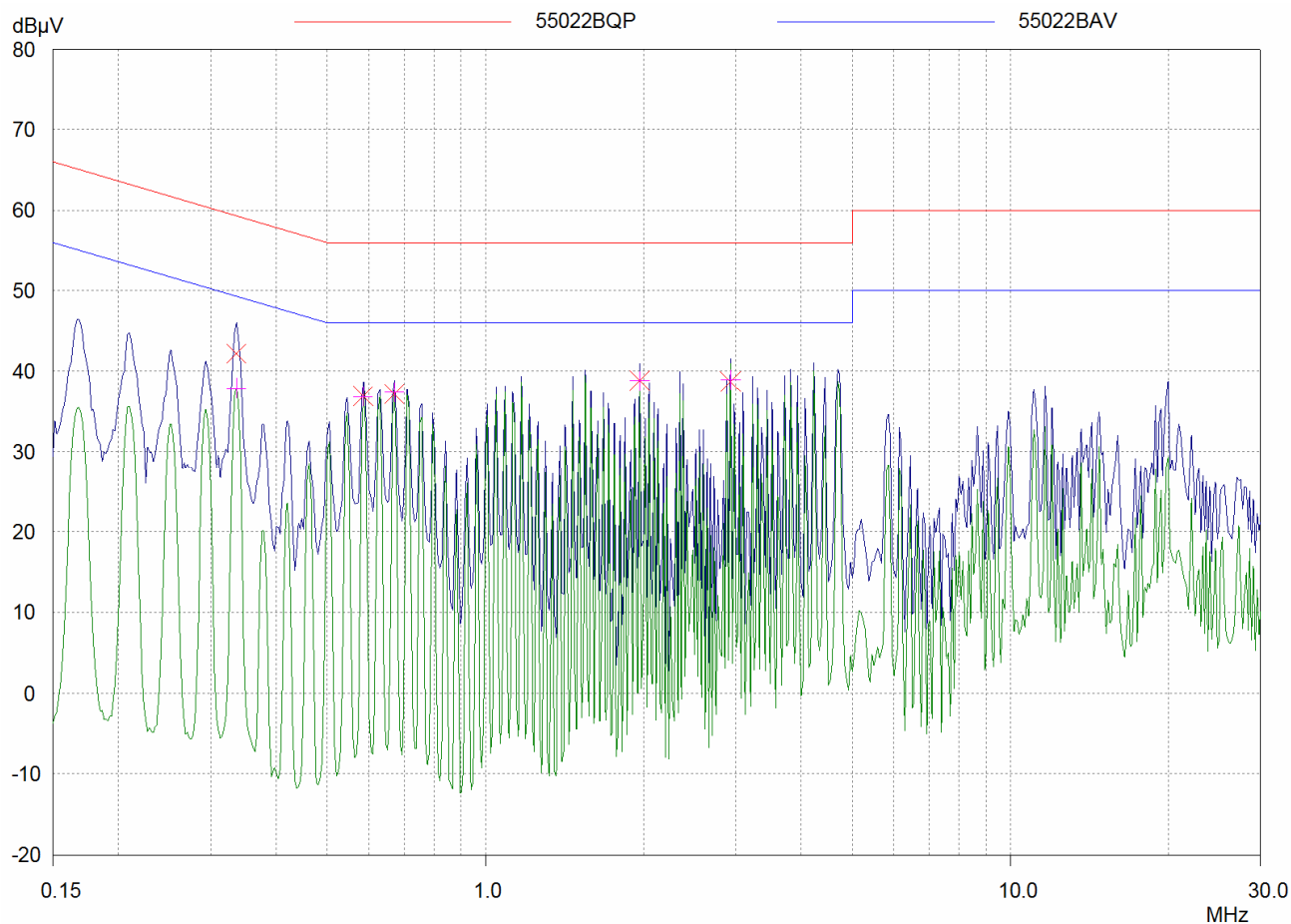


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### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.33543	42.18	59.32	17.14
0.58592	36.86	56.00	19.14
0.67092	37.15	56.00	18.85
1.96717	38.79	56.00	17.21
2.93001	38.69	56.00	17.31

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.33543	37.88	49.32	11.44
0.58592	36.86	46.00	9.14
0.67092	37.33	46.00	8.67
1.96717	38.75	46.00	7.25
2.93001	38.87	46.00	7.13

GSM 850 connected: (test Mobile with 3DS10628AGAA of Tenpao power adaptor and

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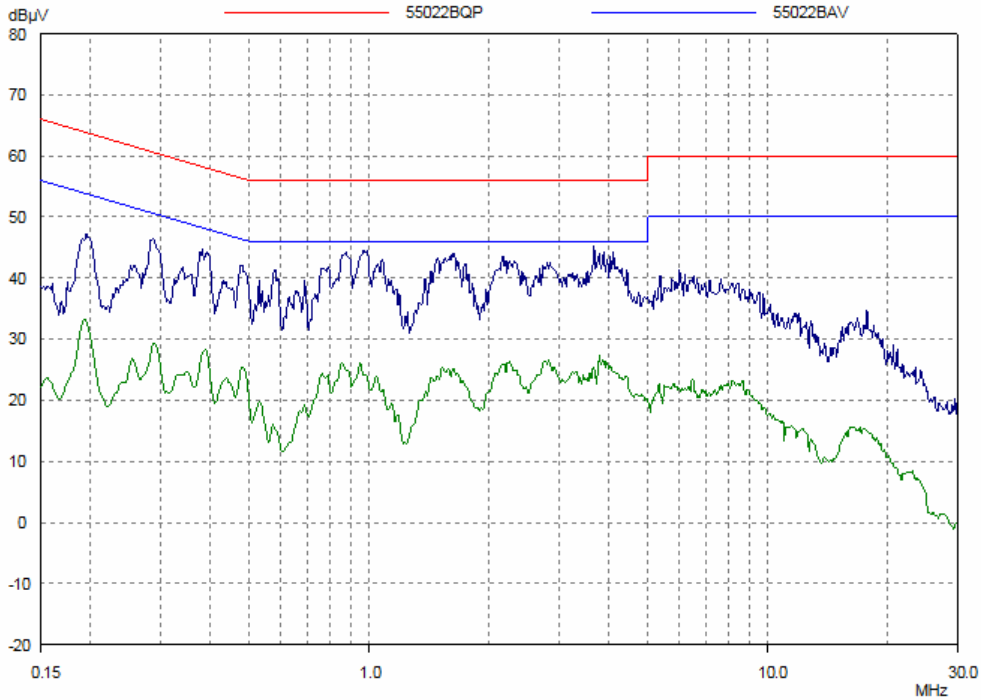
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headset.)

L Line:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.50	*	56	*	*	46	*
1.00	*	56	*	*	46	*
1.40	*	56	*	*	46	*
2.00	*	56	*	*	46	*
3.50	*	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

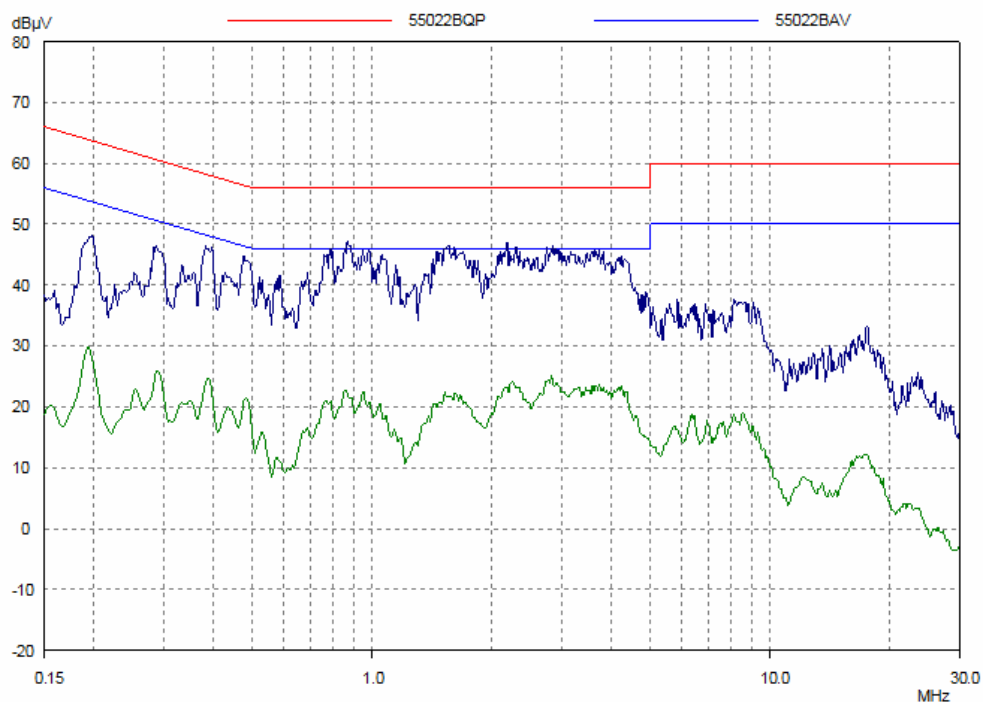
N Line:

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Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.50	*	56	*	*	46	*
1.00	*	56	*	*	46	*
1.40	*	56	*	*	46	*
2.00	*	56	*	*	46	*
3.50	*	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

PCS1900 connected: (test Mobile ith 3DS10628AGAA of Tenpao power adaptor and headset. )

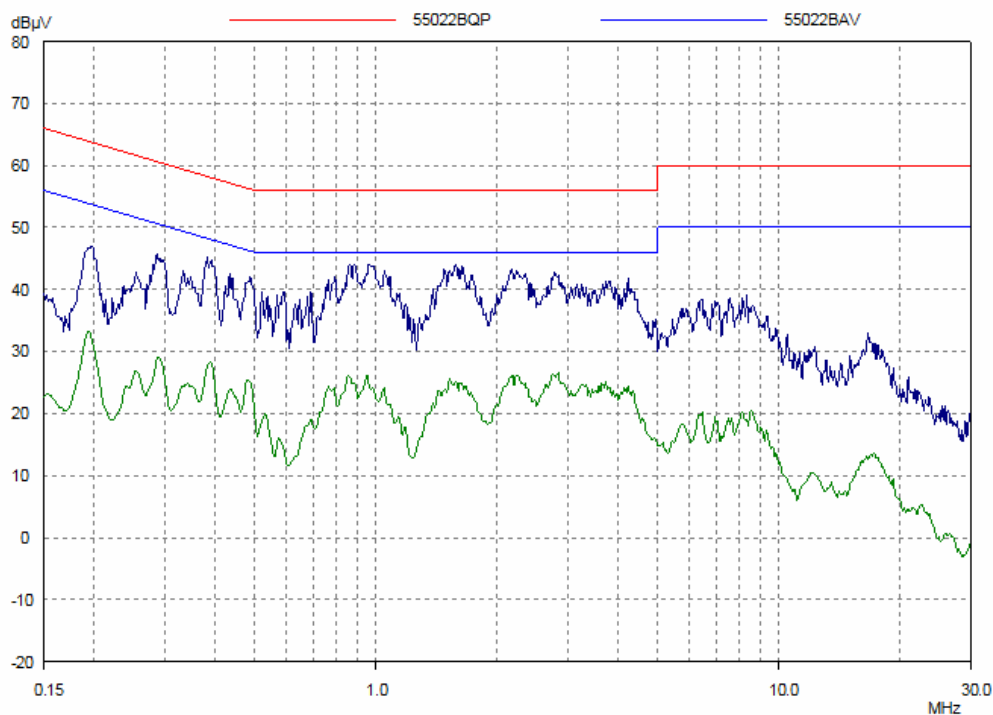
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## L Line:



Frequency (MHz)	Receiver QP Level (dBµV)	Limit (dBµV)	Margin (dB)	Receiver AV Level (dBµV)	Limit (dBµV)	Margin (dB)
0.15	*	66	*	*	56	*
0.50	*	56	*	*	46	*
1.00	*	56	*	*	46	*
1.40	*	56	*	*	46	*
2.00	*	56	*	*	46	*
3.50	*	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

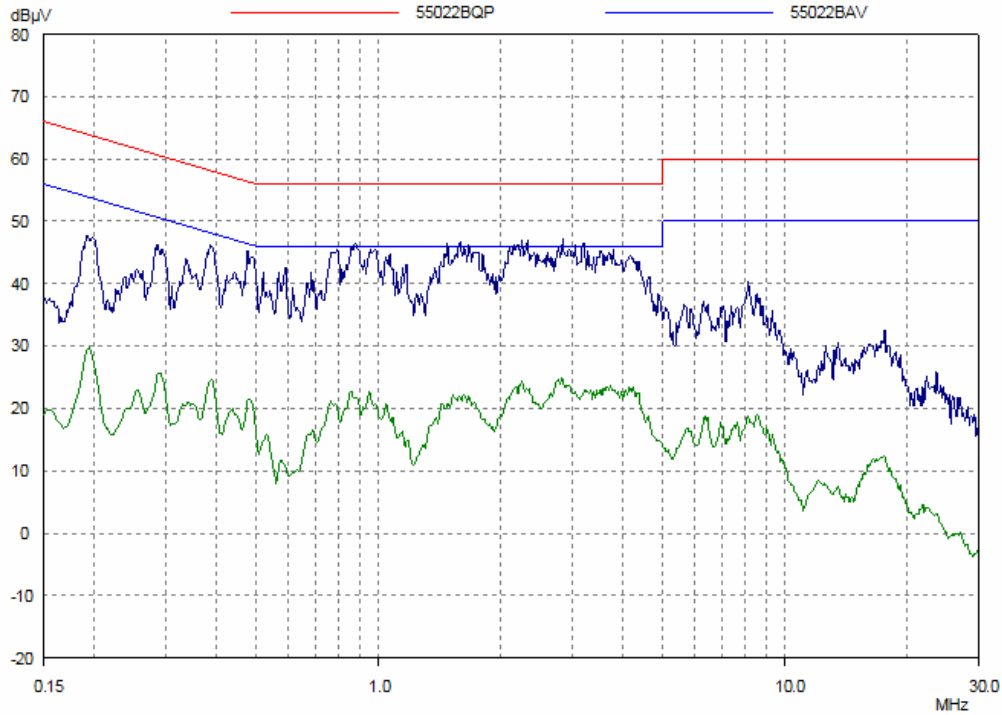
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## N Line:



Frequency (MHz)	Receiver QP Level (dBµV)	Limit (dBµV)	Margin (dB)	Receiver AV Level (dBµV)	Limit (dBµV)	Margin (dB)
0.15	*	66	*	*	56	*
0.50	*	56	*	*	46	*
1.00	*	56	*	*	46	*
1.40	*	56	*	*	46	*
2.00	*	56	*	*	46	*
3.50	*	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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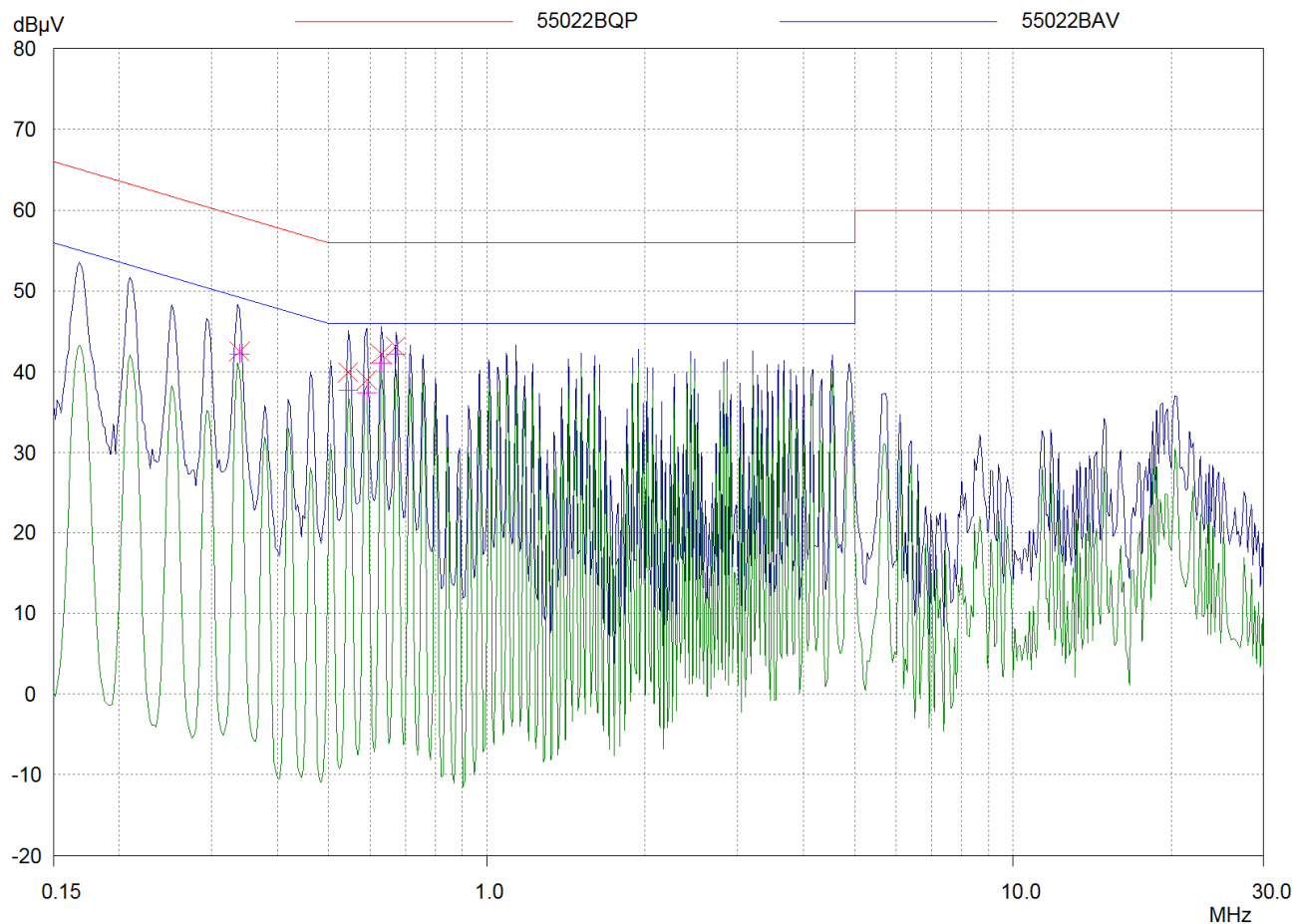
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PCS 1900 connected: (test Mobile with 3DS09371AGAA of Leader power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.33811	42.50	59.25	16.75
0.54537	39.93	56.00	16.07
0.59061	39.02	56.00	16.98
0.62948	42.22	56.00	13.78
0.67092	43.11	56.00	12.89

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.33811	42.22	49.25	7.03
0.54537	37.66	46.00	8.34
0.59061	37.49	46.00	8.51
0.62948	41.08	46.00	4.92
0.67092	42.27	46.00	3.73

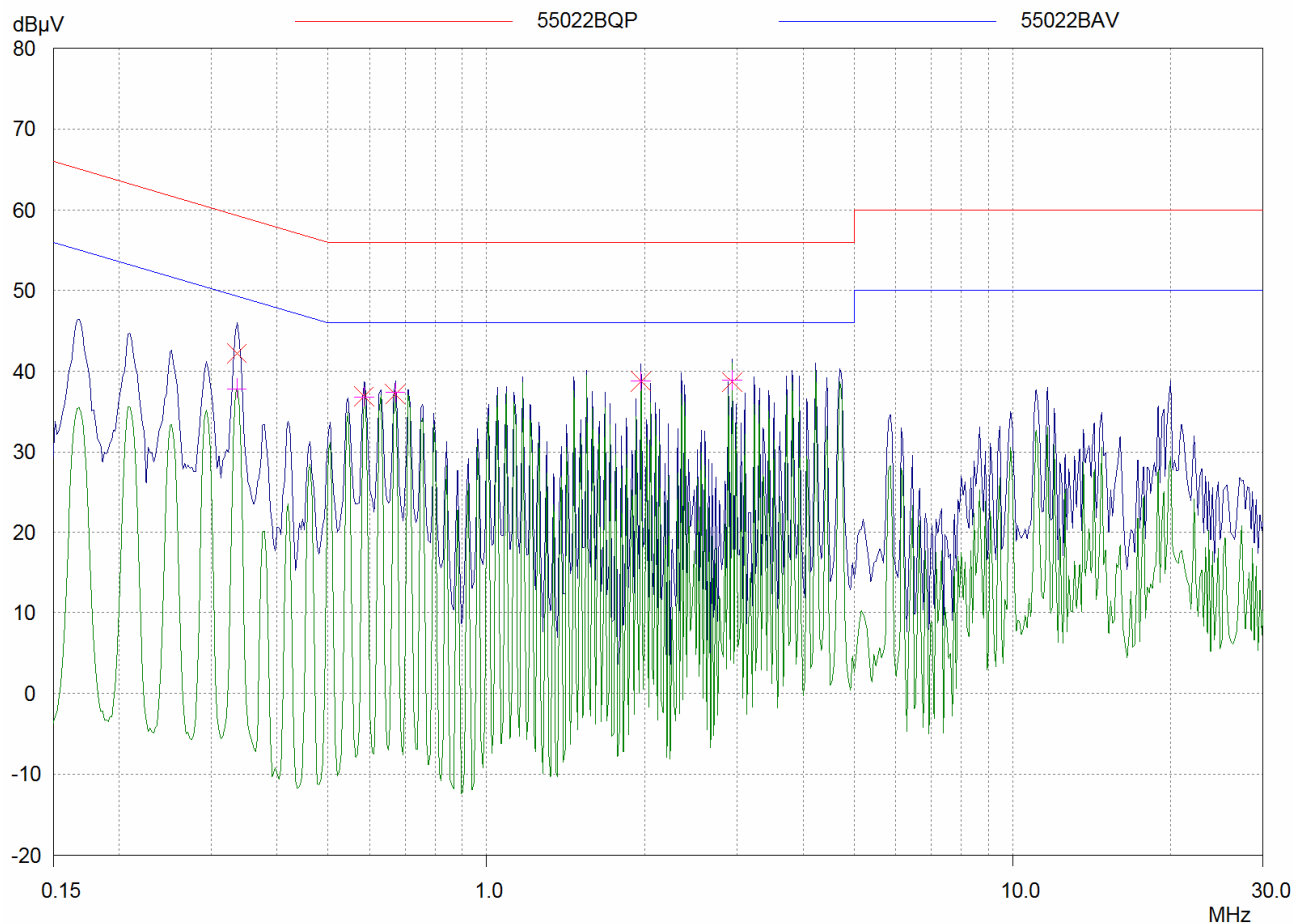
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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.33543	42.18	59.32	17.14
0.58592	36.86	56.00	19.14
0.67092	37.15	56.00	18.85
1.96717	38.79	56.00	17.21
2.93001	38.69	56.00	17.31

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.33543	37.88	49.32	11.44
0.58592	36.86	46.00	9.14
0.67092	37.33	46.00	8.67
1.96717	38.75	46.00	7.25
2.93001	38.87	46.00	7.13

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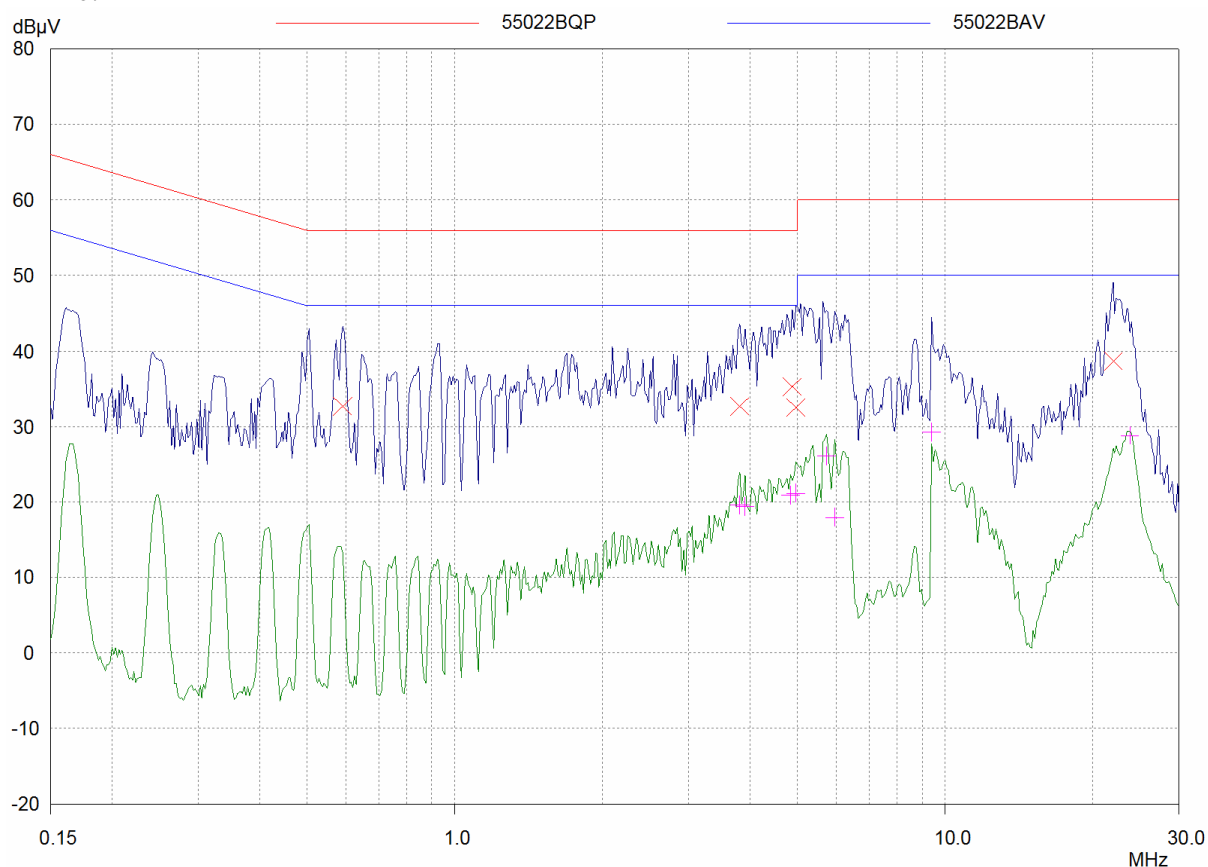
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PCS 1900 connected: (test Mobile with with T5001297AGAA of Tenpao power adaptor and headset.)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.59061	32.72	56.00	23.28
3.81124	32.72	56.00	23.28
4.87914	35.29	56.00	20.71
4.95752	32.53	56.00	23.47
21.99805	38.65	60.00	21.35

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
3.81124	19.50	46.00	26.50
3.90345	19.33	46.00	26.67
4.84042	20.82	46.00	25.18
4.95752	21.08	46.00	24.92
5.72208	26.00	50.00	24.00
5.95466	17.86	50.00	32.14
9.37793	29.30	50.00	20.70
23.82262	28.79	50.00	21.21



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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.5036	37.82	56.00	18.18
0.59061	36.24	56.00	19.76
0.74414	33.64	56.00	22.36
0.7561	34.03	56.00	21.97
4.68857	36.88	56.00	19.12
8.65968	35.28	60.00	24.72
8.94013	39.45	60.00	20.55
9.08375	37.37	60.00	22.63

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.5036	26.96	46.00	19.04
7.56263	28.07	50.00	21.93
7.87001	28.28	50.00	21.72
8.32145	28.47	50.00	21.53
8.45513	26.56	50.00	23.44
8.65968	30.58	50.00	19.42
8.94013	31.53	50.00	18.47
9.15642	29.75	50.00	20.25

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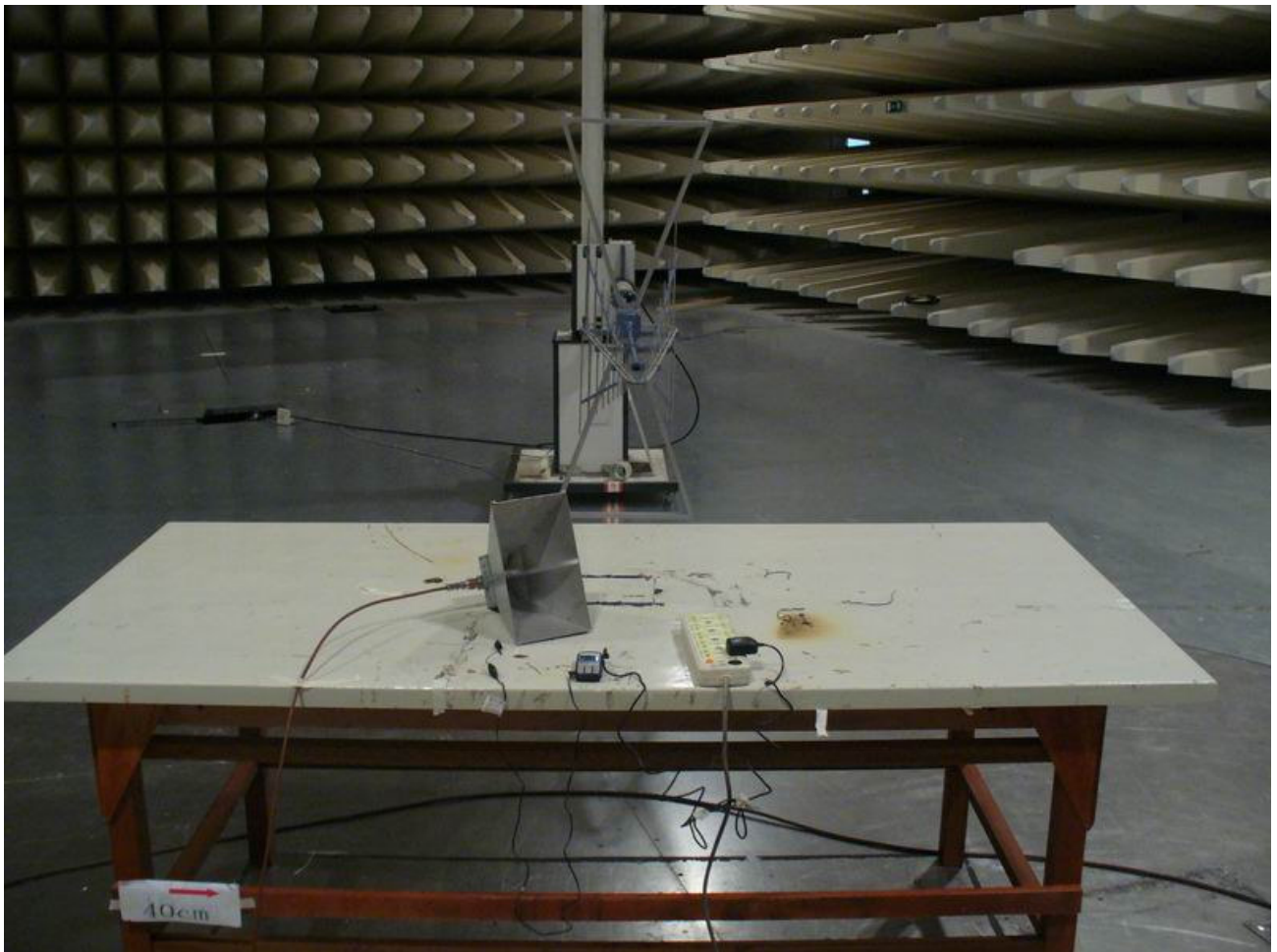
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## 7 Photographs

### 7.1 Radiated Emission Test Setup



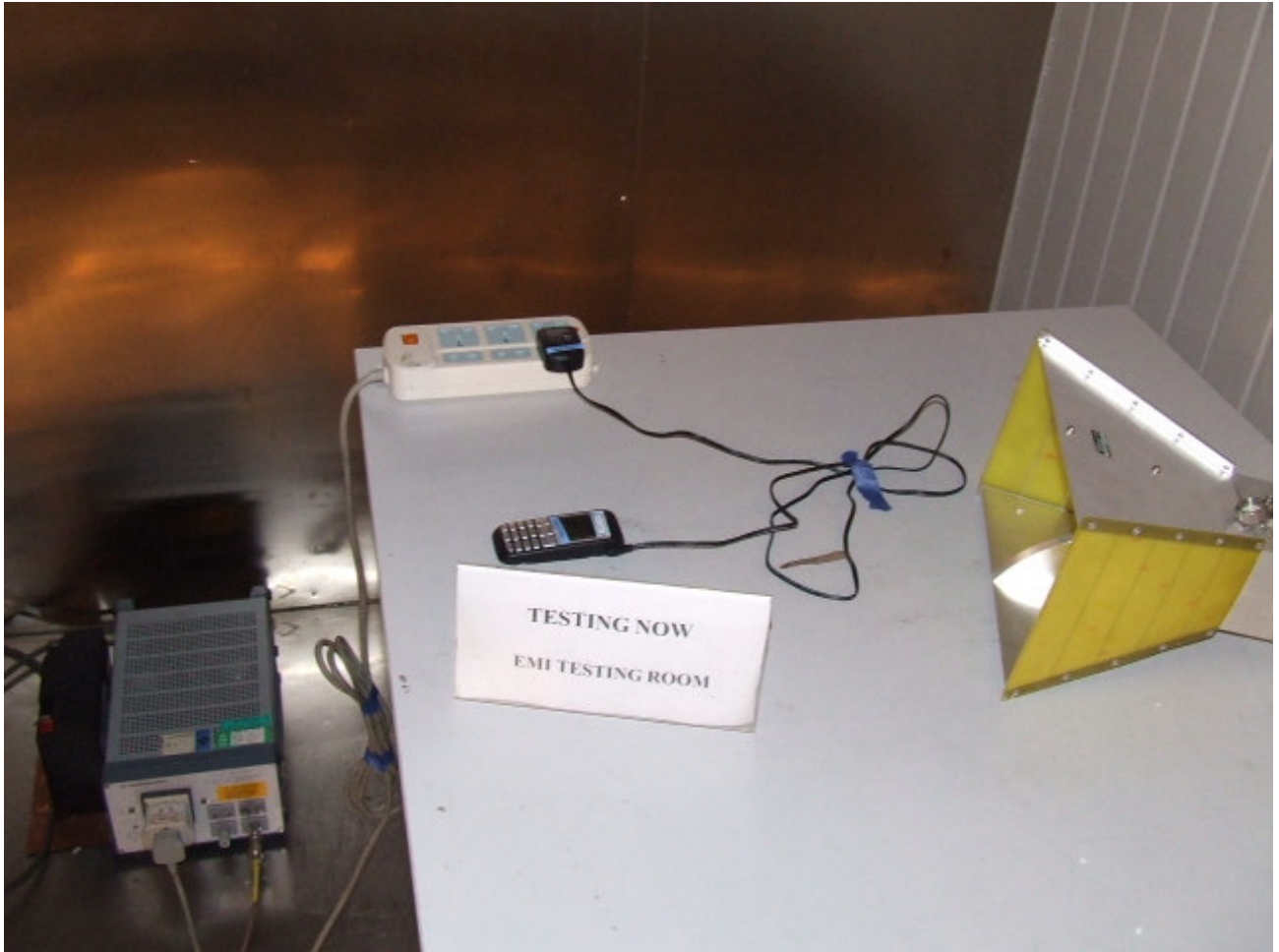
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**7.2 Conducted Emission Test Setup**



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**7.3 EUT Constructional Details**





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