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# *FCC TEST REPORT*

**Application No.**: SHEMO071200014IT

**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.:** U7CA

**Marketing Name:** OT-E221A

**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 12, 2007

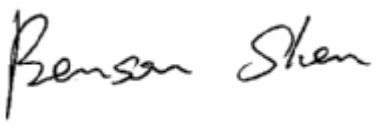
**Date of Test**: December 12, 2007 to December 27, 2007

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

| **Test Result :** | **PASS** |
|---|---|

Authorized Signature:

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



Jathy Huang
E&E EMC Engineer
SGS-CSTC Co., Ltd

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# 2 Test Summary

| Test | Test Requirement | Test Method | Class / Severity | Result |
|---|---|---|---|---|
| Radiated Emission 30MHz-1000MHz | CFR 47 Part 15 | 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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# 3 Contents

Page

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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.: | U7CA |
| Marketing Name: | OT-E221A |
| 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: T5000436AGAA Input: AC 100V-240V~, 50/60Hz 0.15A Output:DC 5V, 400mA)<br>Manufactures: Tenpao |
| Power Cord01: | 2m |
| Power Supply02: | AC to DC charger (Model NO: T5001448AGAA Input: AC 100V-240V~, 50/60Hz 100mA Output:DC 4.5V, 300mA)<br>Manufactures: Tenpao |
| Power Cord02: | 2m |
| Power Supply03: | AC to DC charger (Model NO: 3DS11022AGAA Input: AC 100V-240V~, 50/60Hz 0.15A Output:DC 5V, 500mA) |
| Power Cord03: | 2m |
| Earphone | Model NO.: T5001578AAAA |
| Battery | DC 3.7V / 750mAh<br>P/N: T5001298AAAA (BYD)<br>P/N: T5001298AAAA (JINNENG) |

## 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 : 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, Dcember 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 12, 2007 to December 27, 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) |

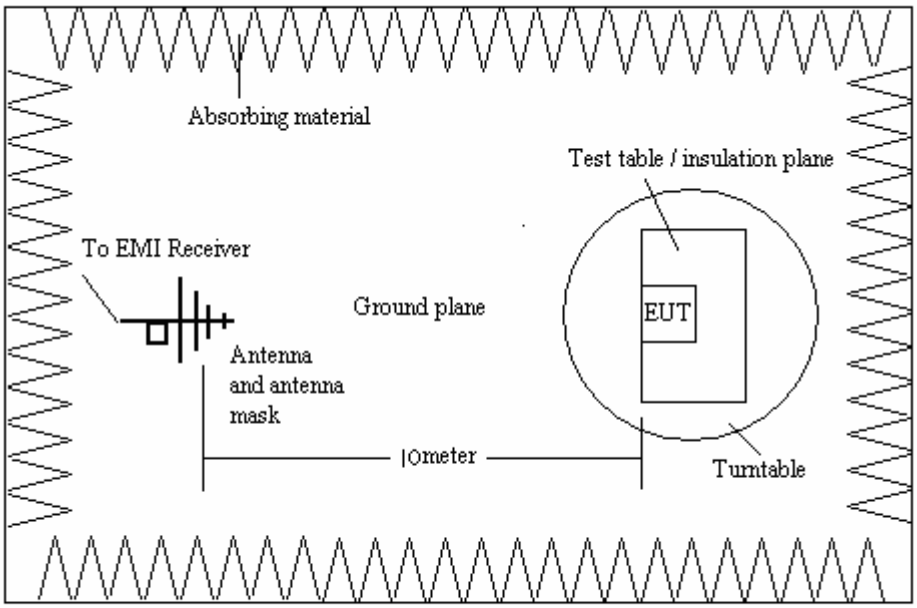
### 6.1.1 E.U.T. Operation

Operating Environment:

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

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

### 6.1.2 Test setup:



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### 6.1.3 Test Result and Partial Measurement Data

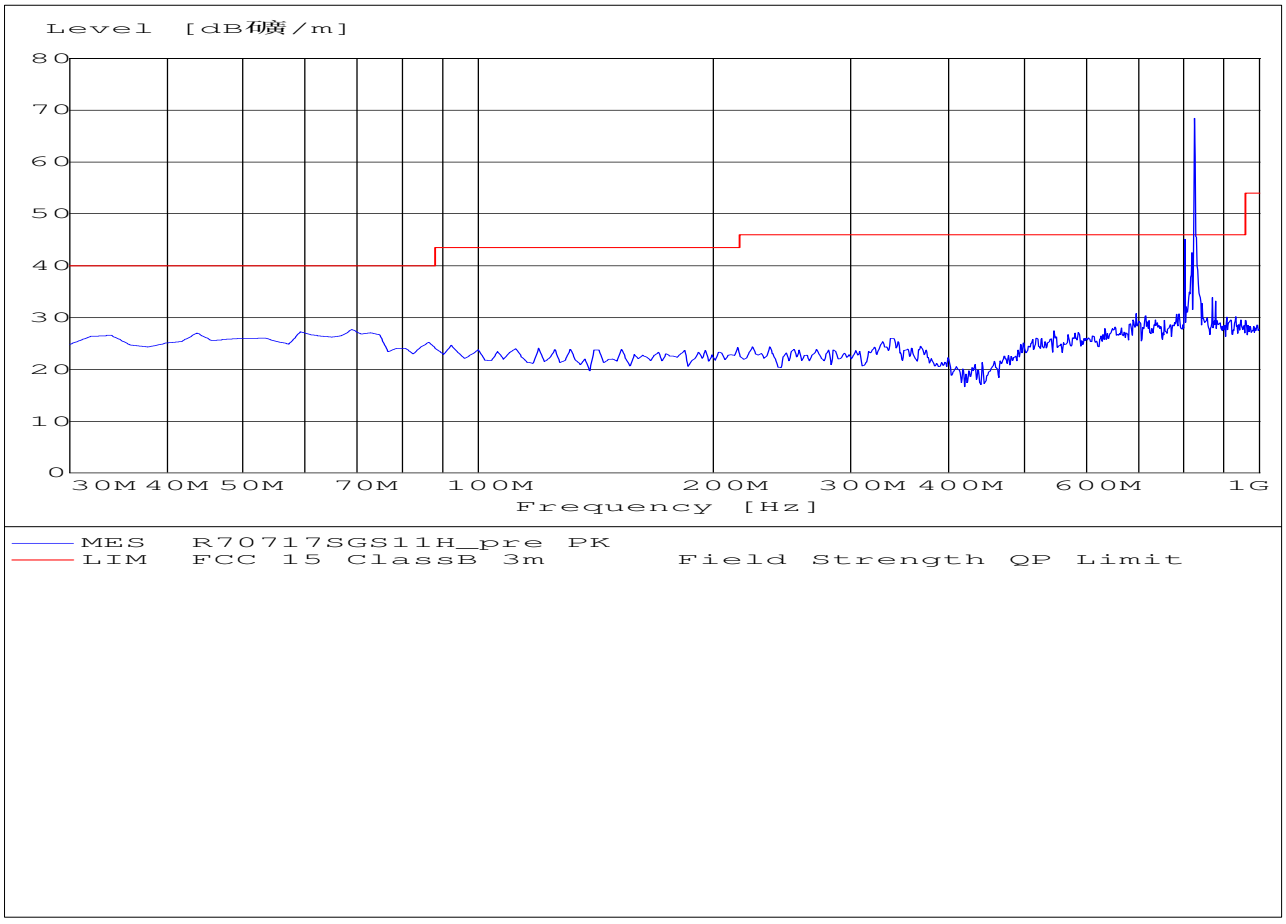
**Pass**

An initial pre-scan was performed in the SAC using the receiver in peak detection mode. The EUT was measured for two orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.

**Note:** The test was performed for all the functions and modes, and the data shown below is the worst case.

GSM 850 connected: (test Mobile with T5000436AGAA of TenPao power adaptor.)

Horizontal:



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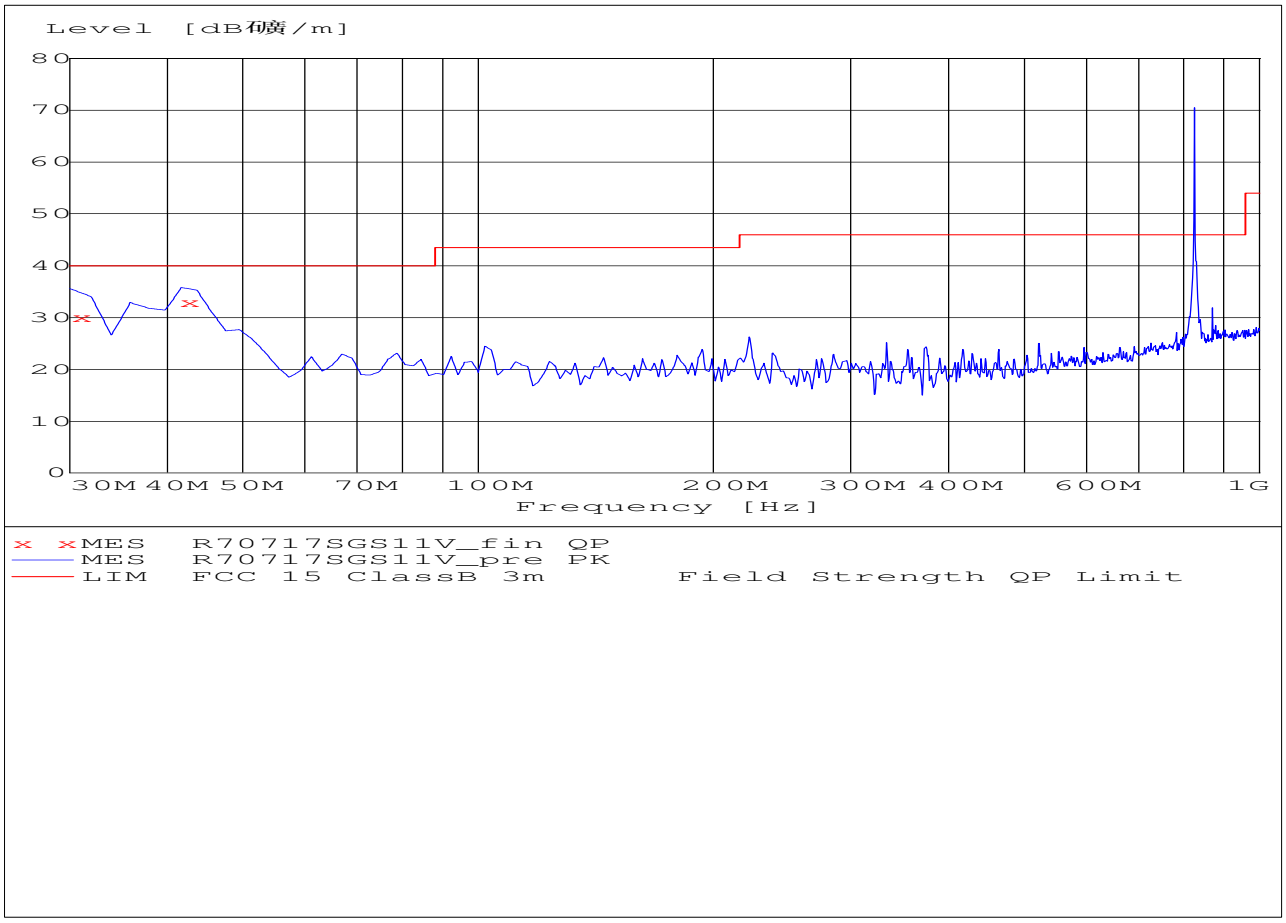
Vertical:




| Frequency MHz | Level dBµV/m | Height cm | Azimuth deg | Polarisation | Limit dBµV/m | Margin dB |
|---|---|---|---|---|---|---|
| 30.861720 | 29.86 | 100.0 | 250.00 | VERTICAL | 40.00 | 10.14 |
| 42.394790 | 32.89 | 100.0 | 60.00 | VERTICAL | 40.00 | 7.11 |

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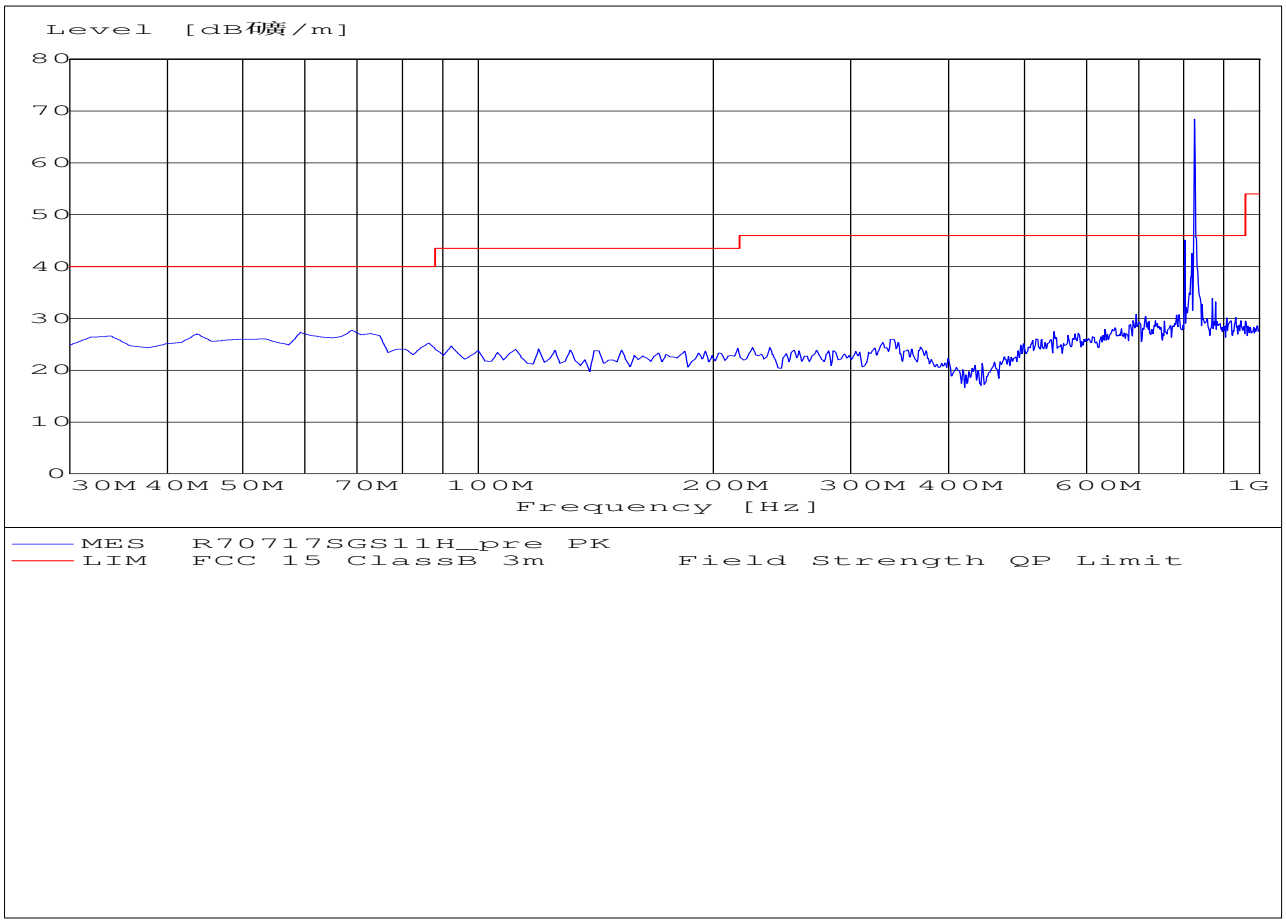
GSM 850 connected: (test Mobile with T5001448AGAA of Tenpao power adaptor.)

Horizontal:



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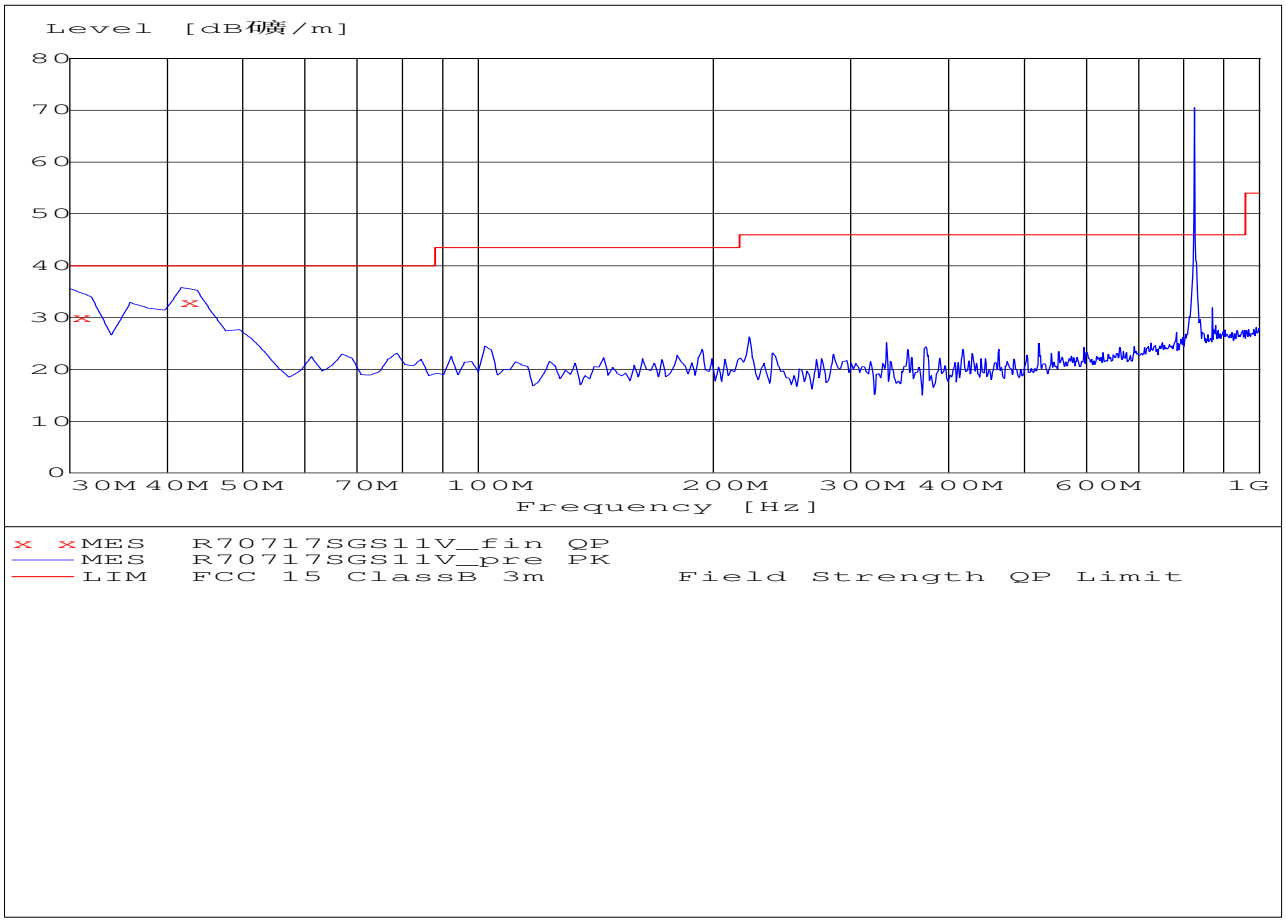
Vertical:




| Frequency MHz | Level dBµV/m | Height cm | Azimuth deg | Polarisation | Limit dBµV/m | Margin dB |
|---|---|---|---|---|---|---|
| 30.861720 | 29.86 | 100.0 | 250.00 | VERTICAL | 40.00 | 10.14 |
| 42.394790 | 32.89 | 100.0 | 60.00 | VERTICAL | 40.00 | 7.11 |

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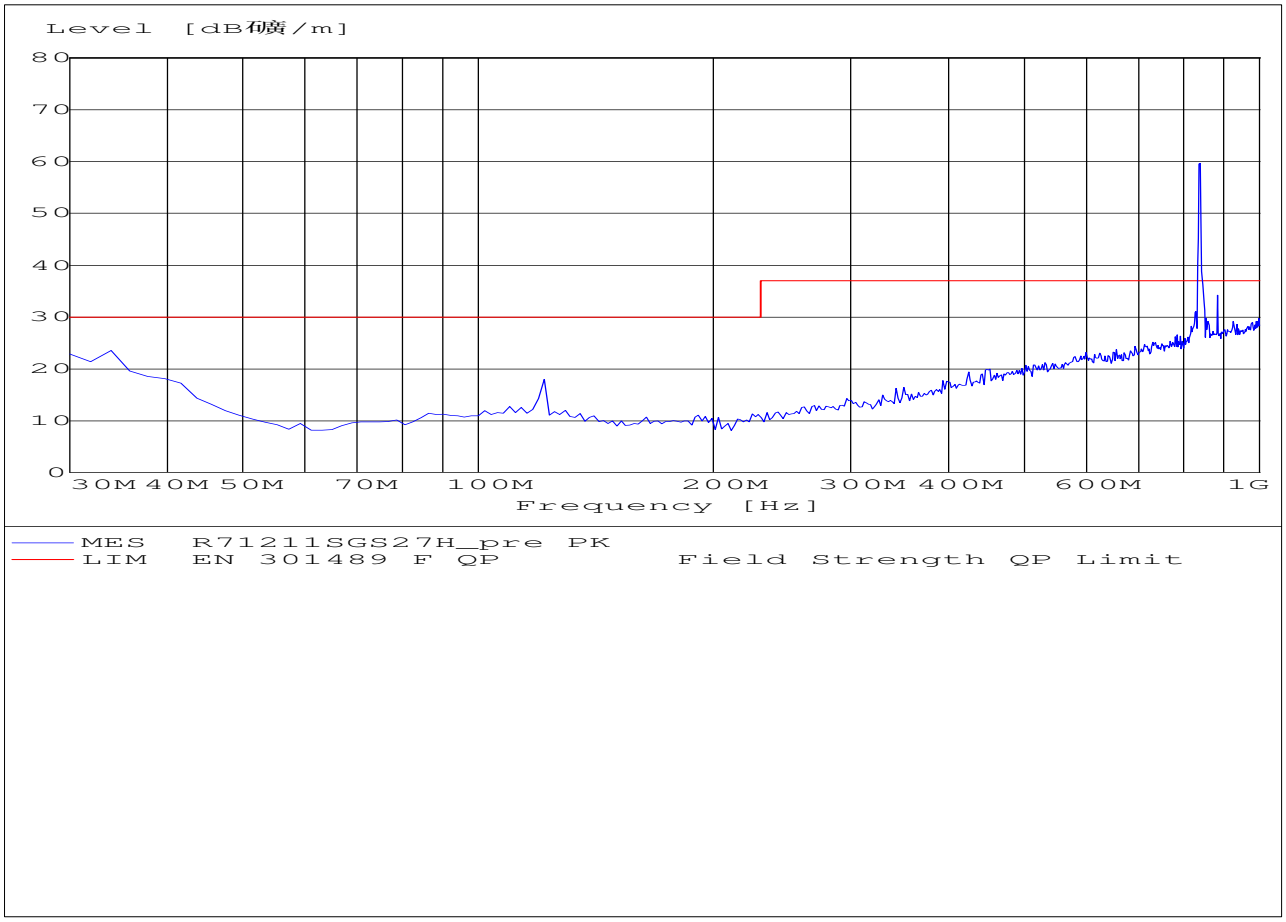
GSM 850 connected: (test Mobile with 3DS11022AGAA adaptor.)
Horizontal



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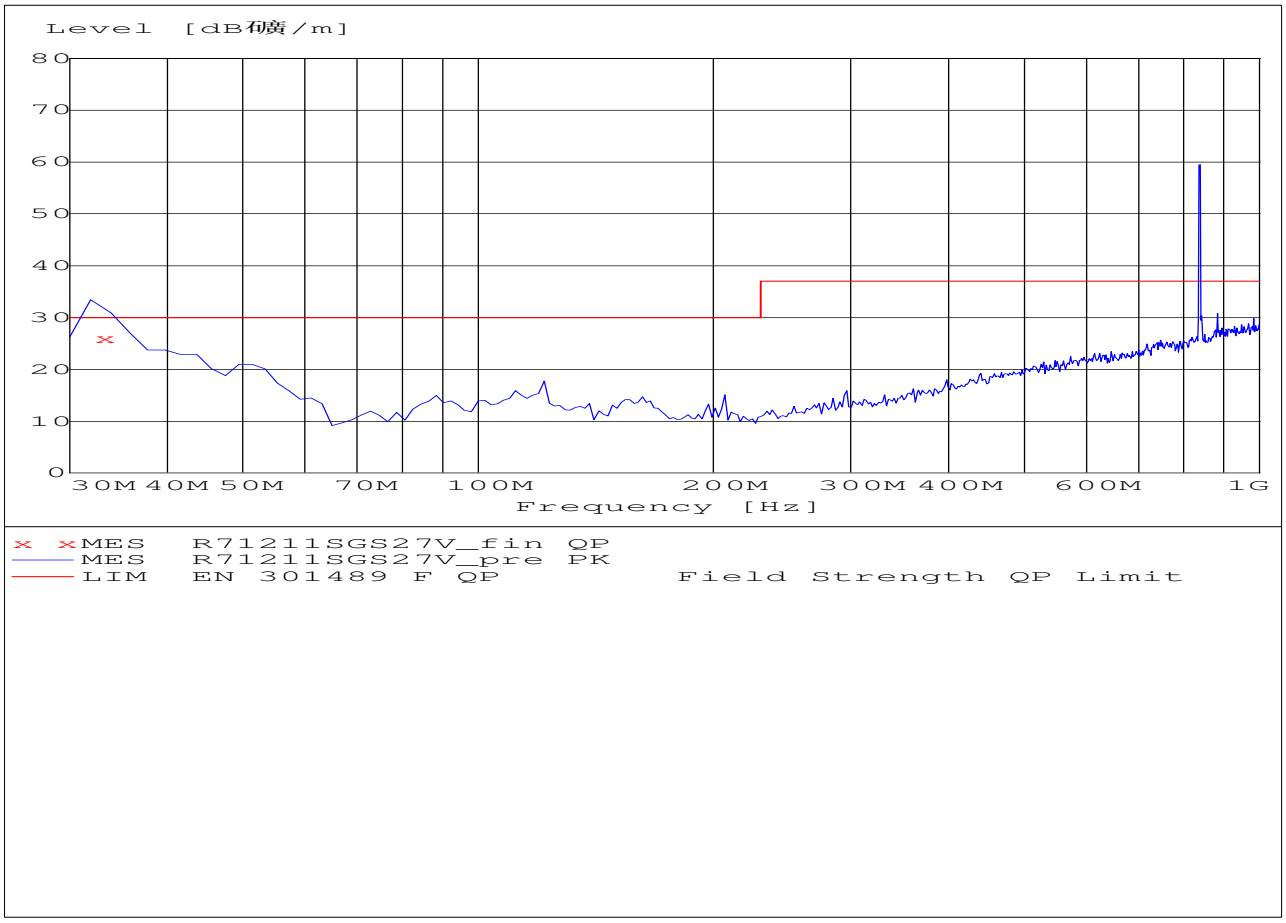
Vertical:




| Frequency MHz | Level dBµV/m | Height cm | Azimuth deg | Polarisation | Limit BµV/m | Margin dB |
|---|---|---|---|---|---|---|
| 33.106212 | 25.79 | 100.0 | 180.00 | VERTICAL | 30.00 | 4.21 |

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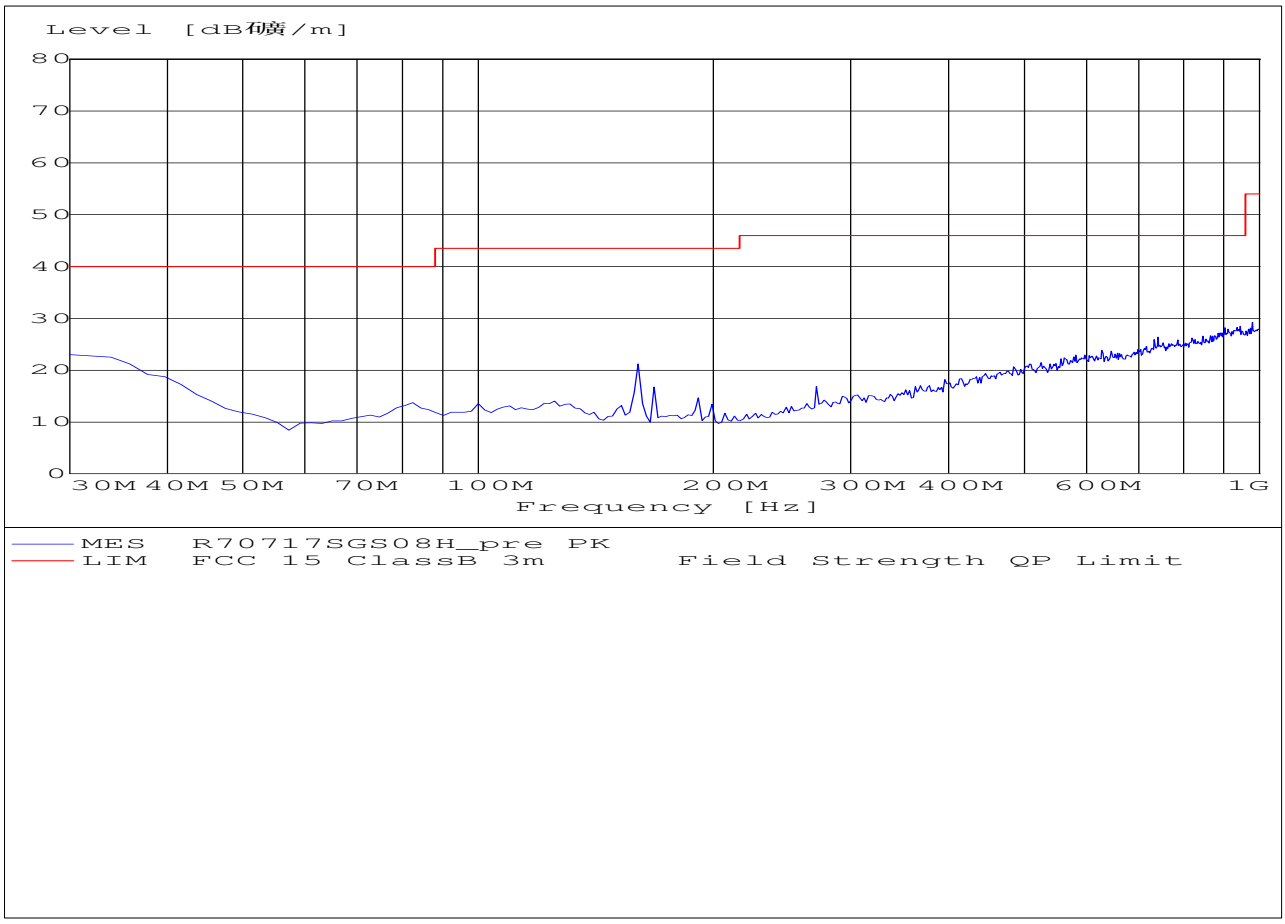
PCS 1900 connected: (test Mobile with T5000436AGAA of Tenpao power adaptor.)

Horizontal:



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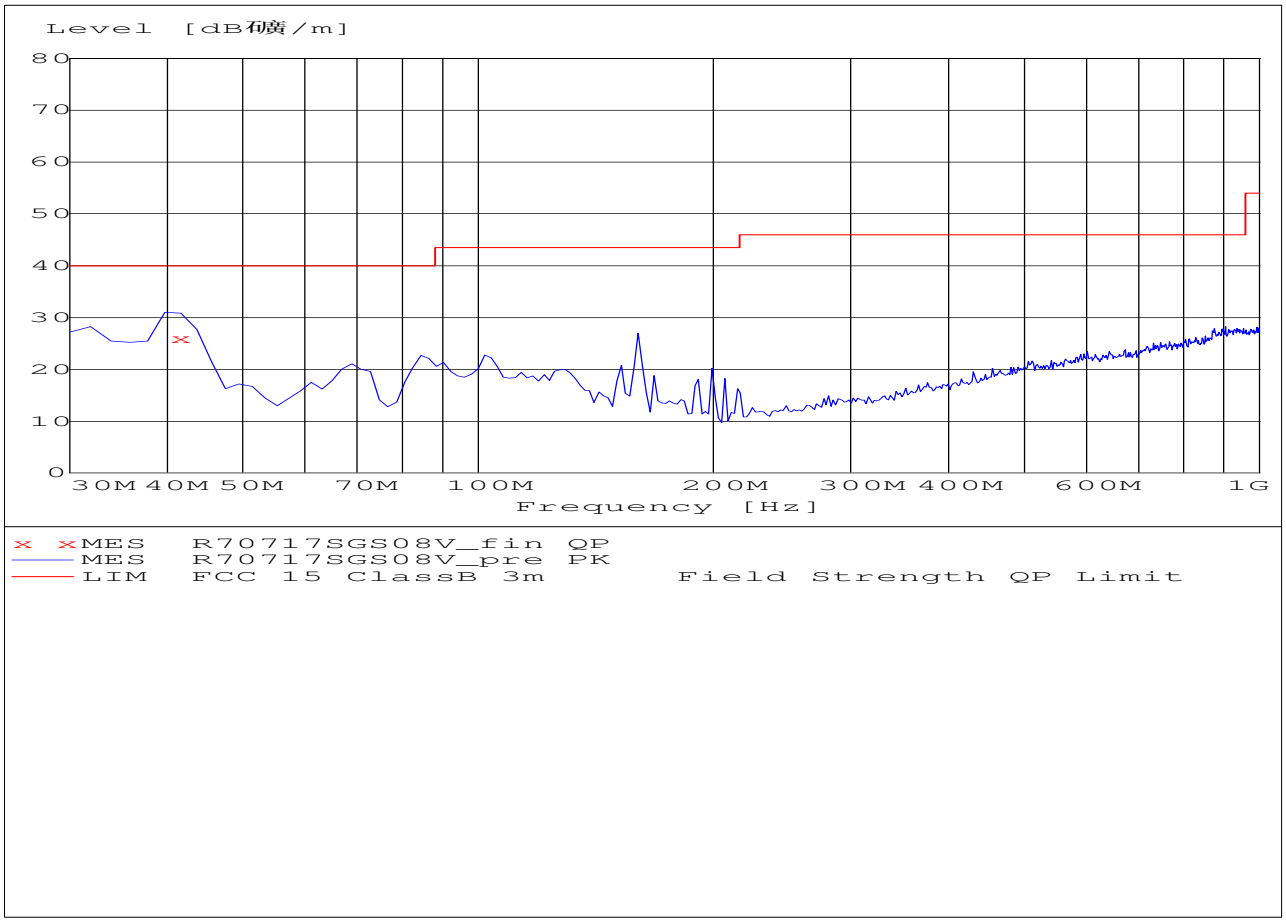
Vertical:




| Frequency MHz | Level dBµV/m | Height cm | Azimuth deg | Polarisation | Limit dBµV/m | Margin dB |
|---|---|---|---|---|---|---|
| 41.292590 | 25.87 | 100.0 | 300.00 | VERTICAL | 40.00 | 14.13 |

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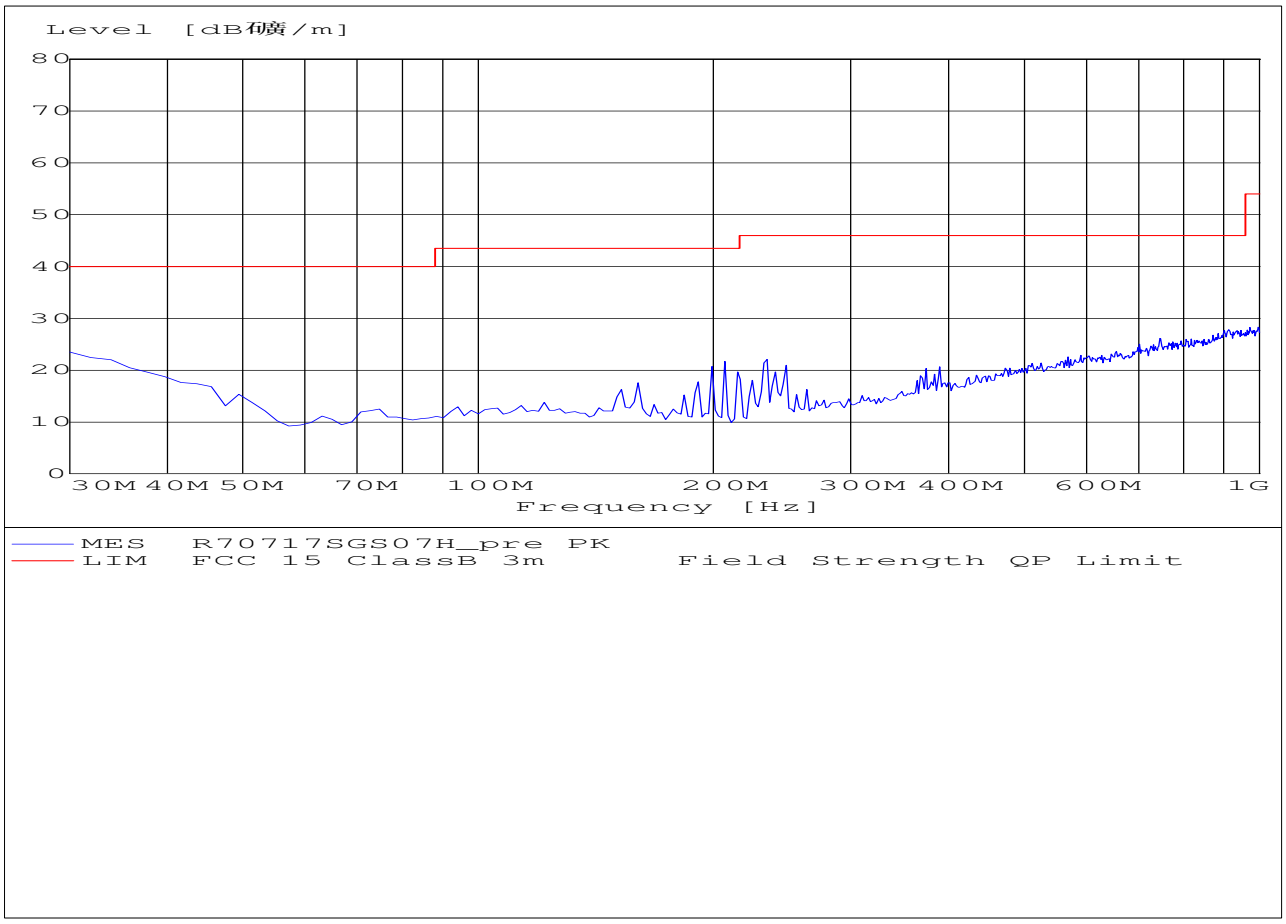
PCS 1900 connected: (test Mobile with T5001448AGAA of Tenpao power adaptor.)

Horizontal:



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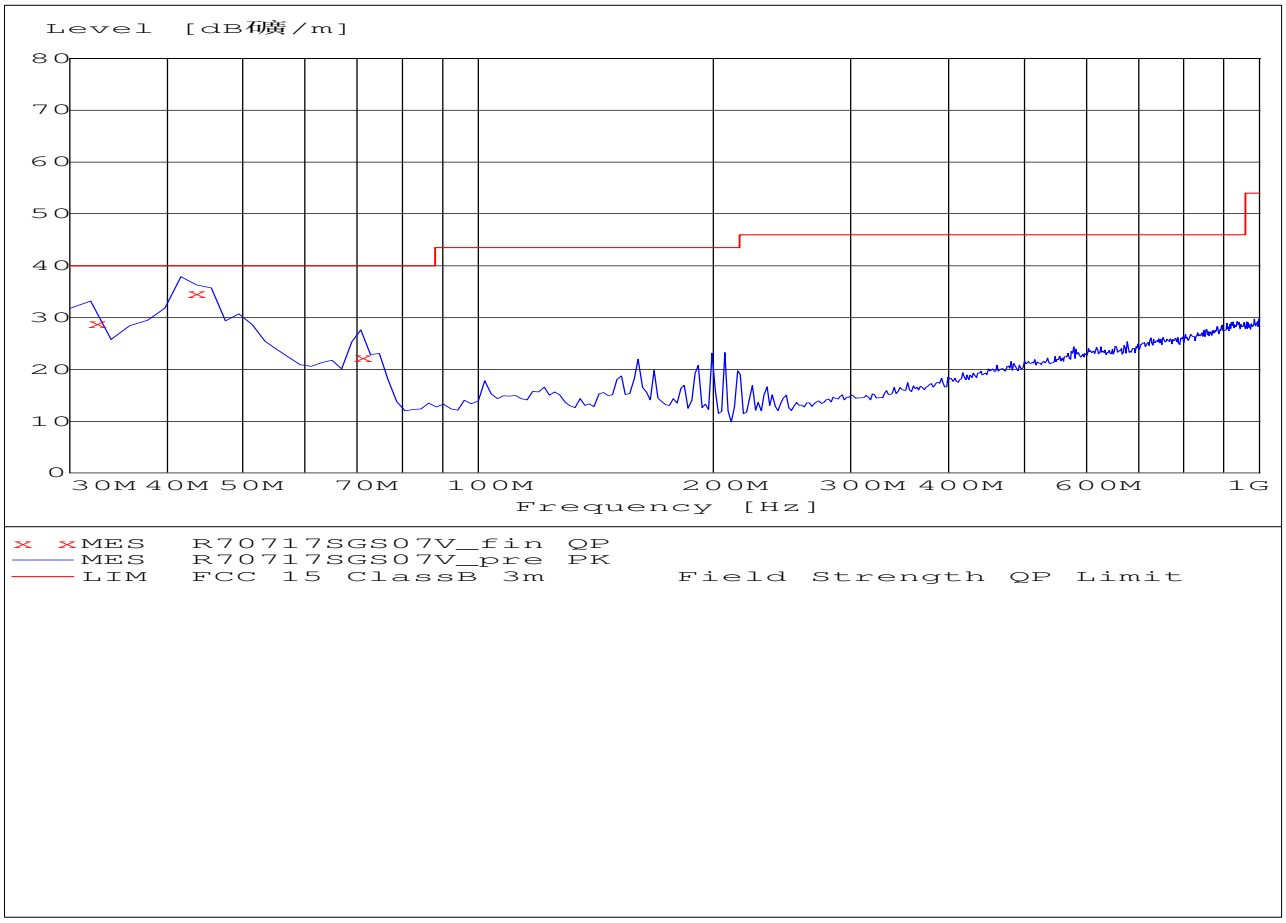
Vertical:




| Frequency MHz | Level dBµV/m | Height cm | Azimuth deg | Polarisation | Limit dBµV/m | Margin dB |
|---|---|---|---|---|---|---|
| 32.344690 | 28.78 | 100.0 | 265.00 | VERTICAL | 40.00 | 11.22 |
| 43.266530 | 34.59 | 100.0 | 230.00 | VERTICAL | 40.00 | 5.41 |
| 70.751500 | 22.31 | 100.0 | 180.00 | VERTICAL | 40.00 | 17.69 |

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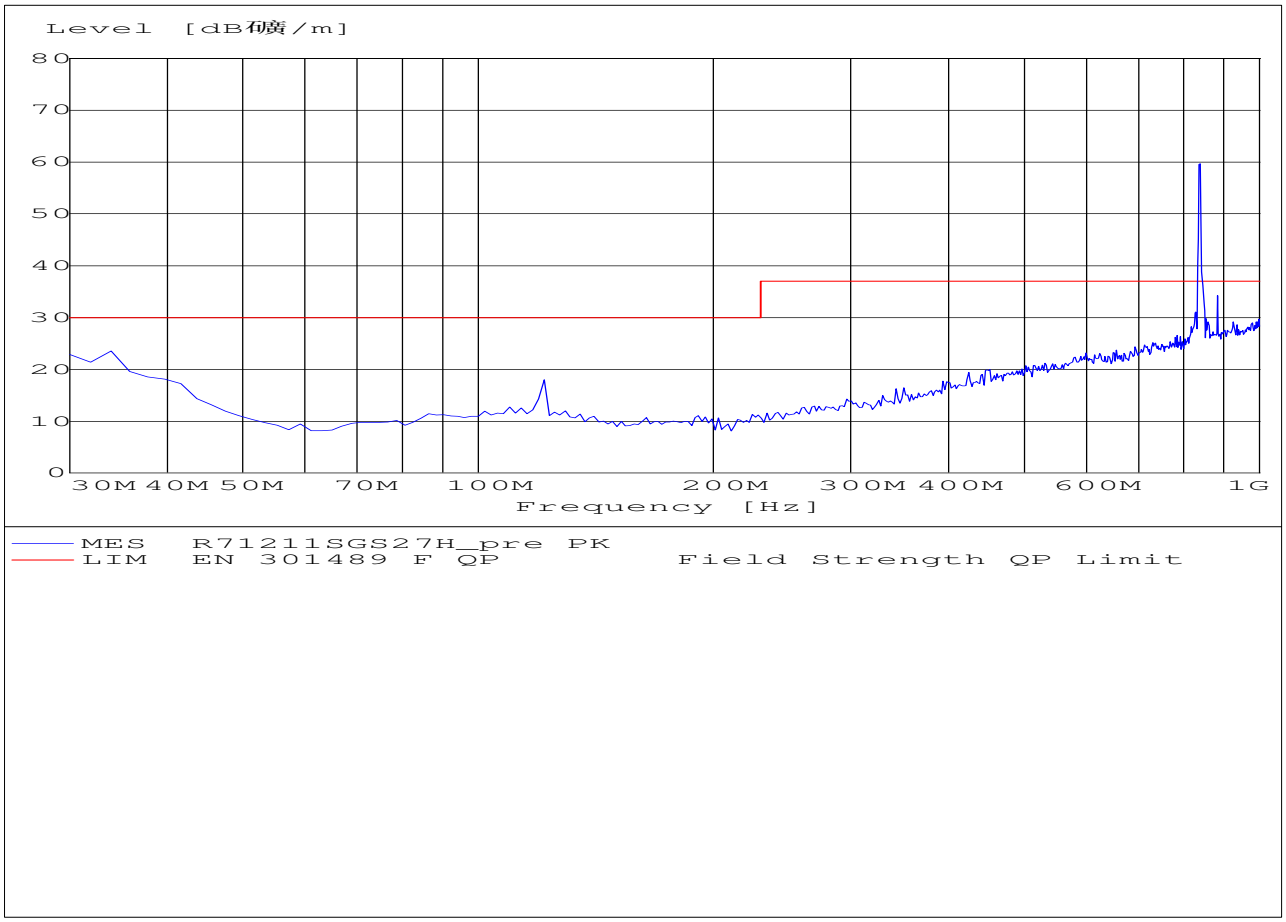
PCS 1900 connected: (test Mobile with 3DS11022AGAA adaptor )

Horizontal



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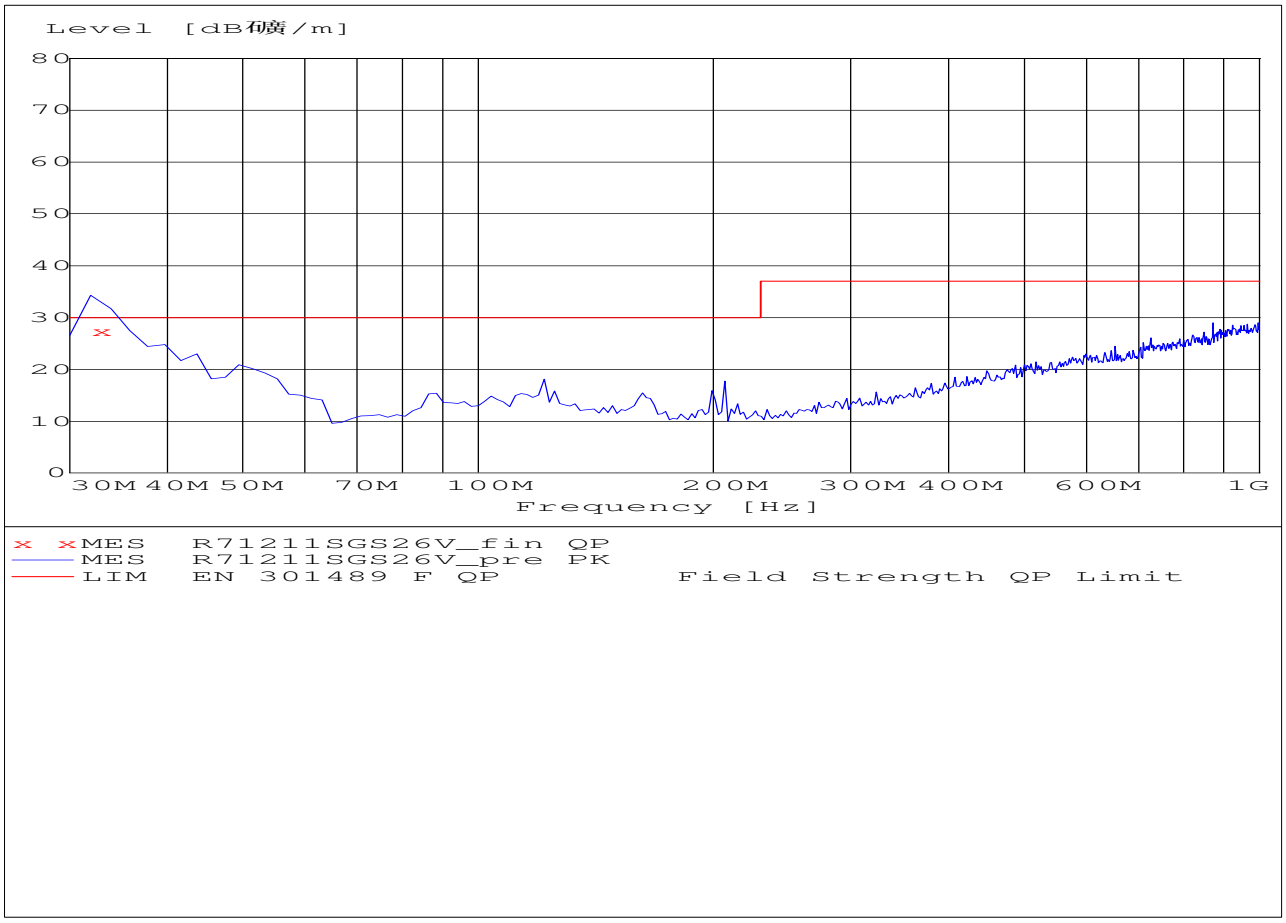
Vertical:



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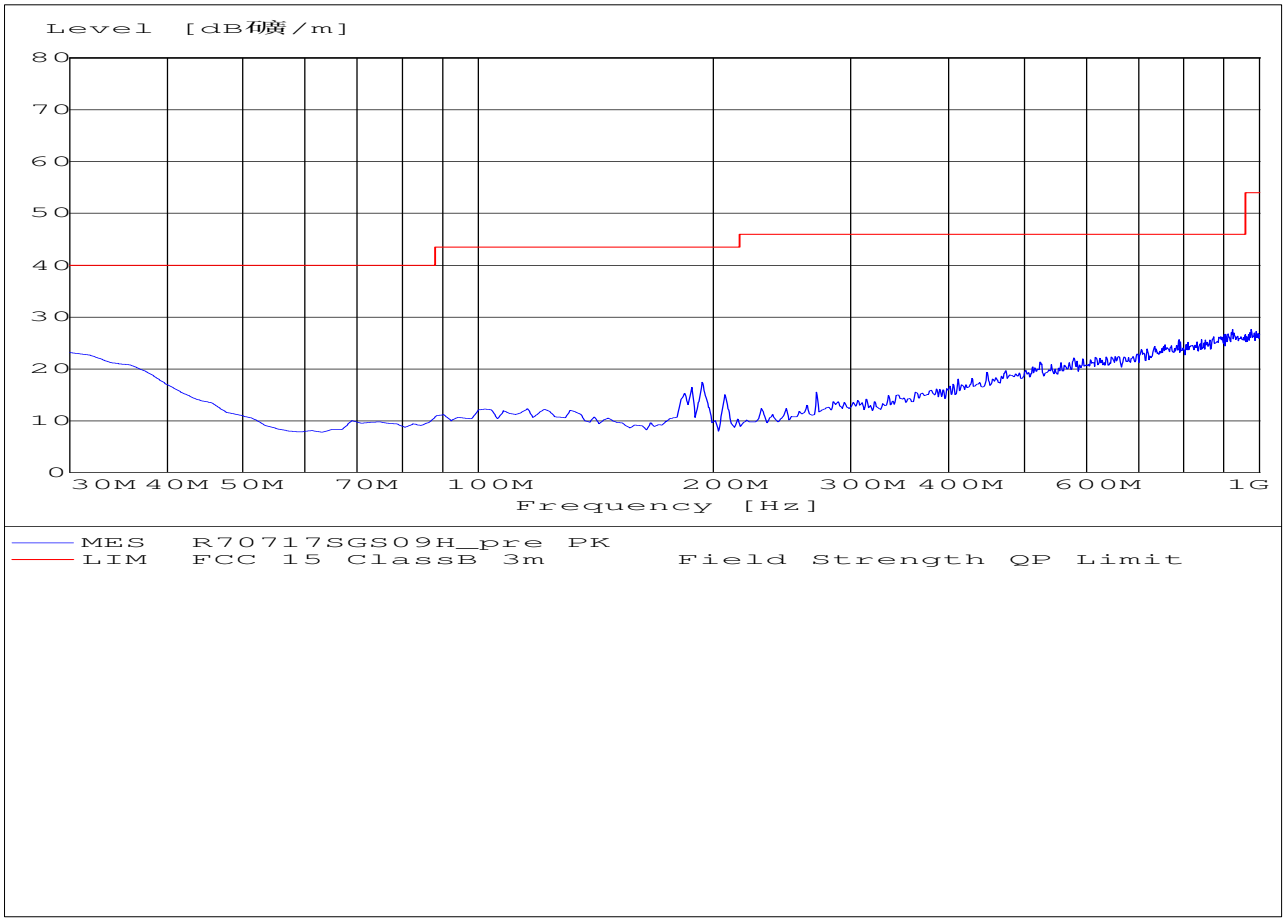
PCS 1900 connected: (test Mobile with earphone.)
Horizontal:



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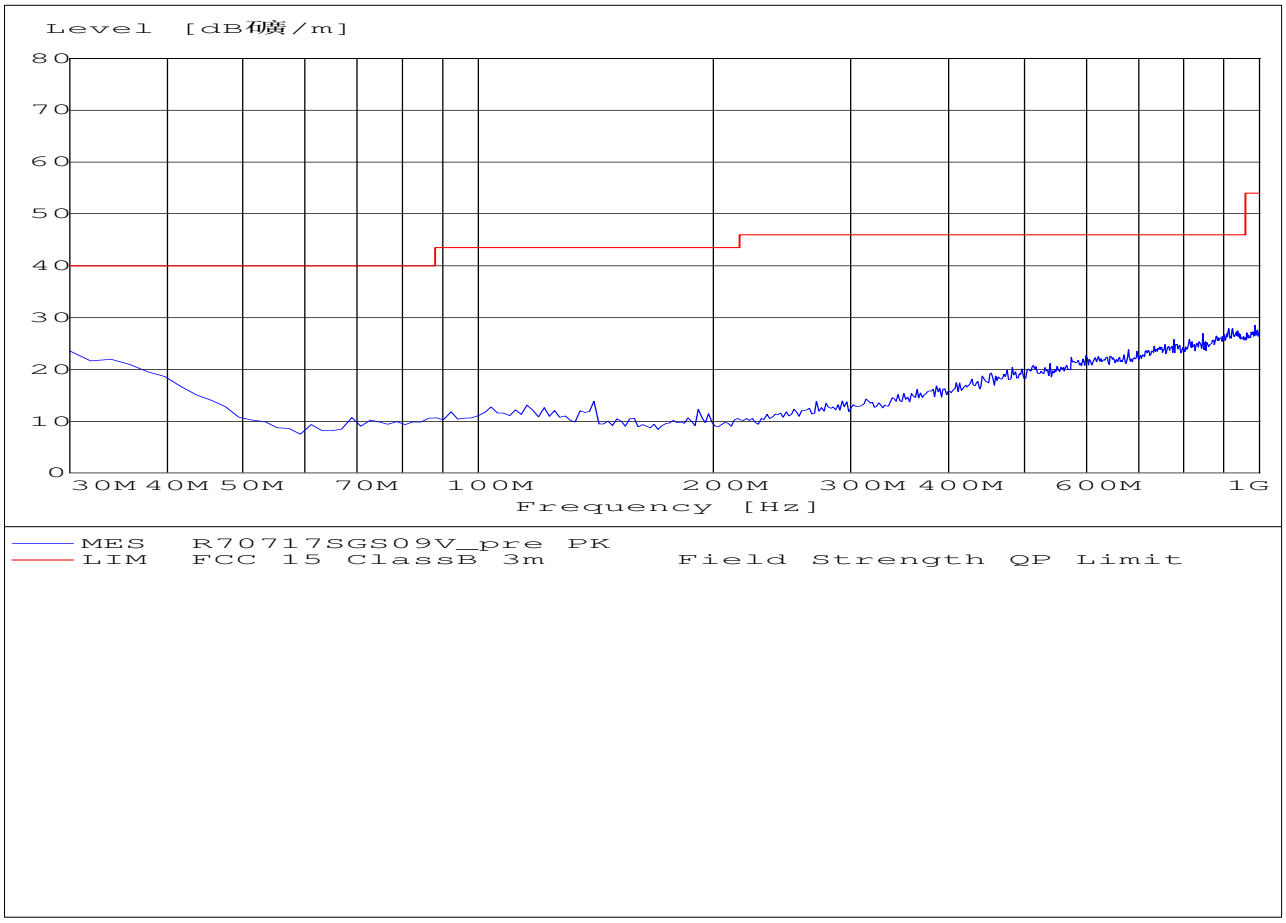
Vertical:



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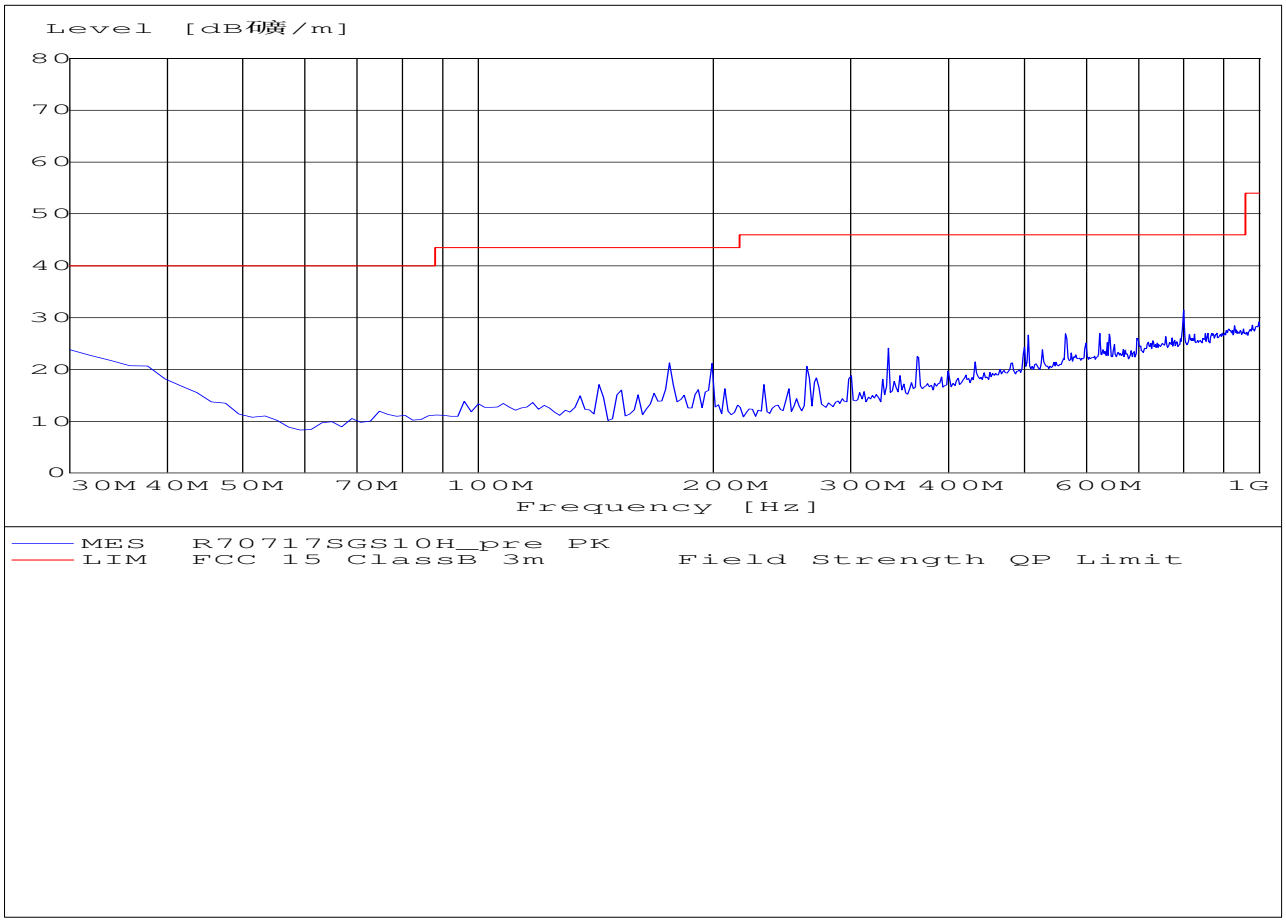
PCS 1900 connected: (test Mobile with USB Port with PC.)

Horizontal:



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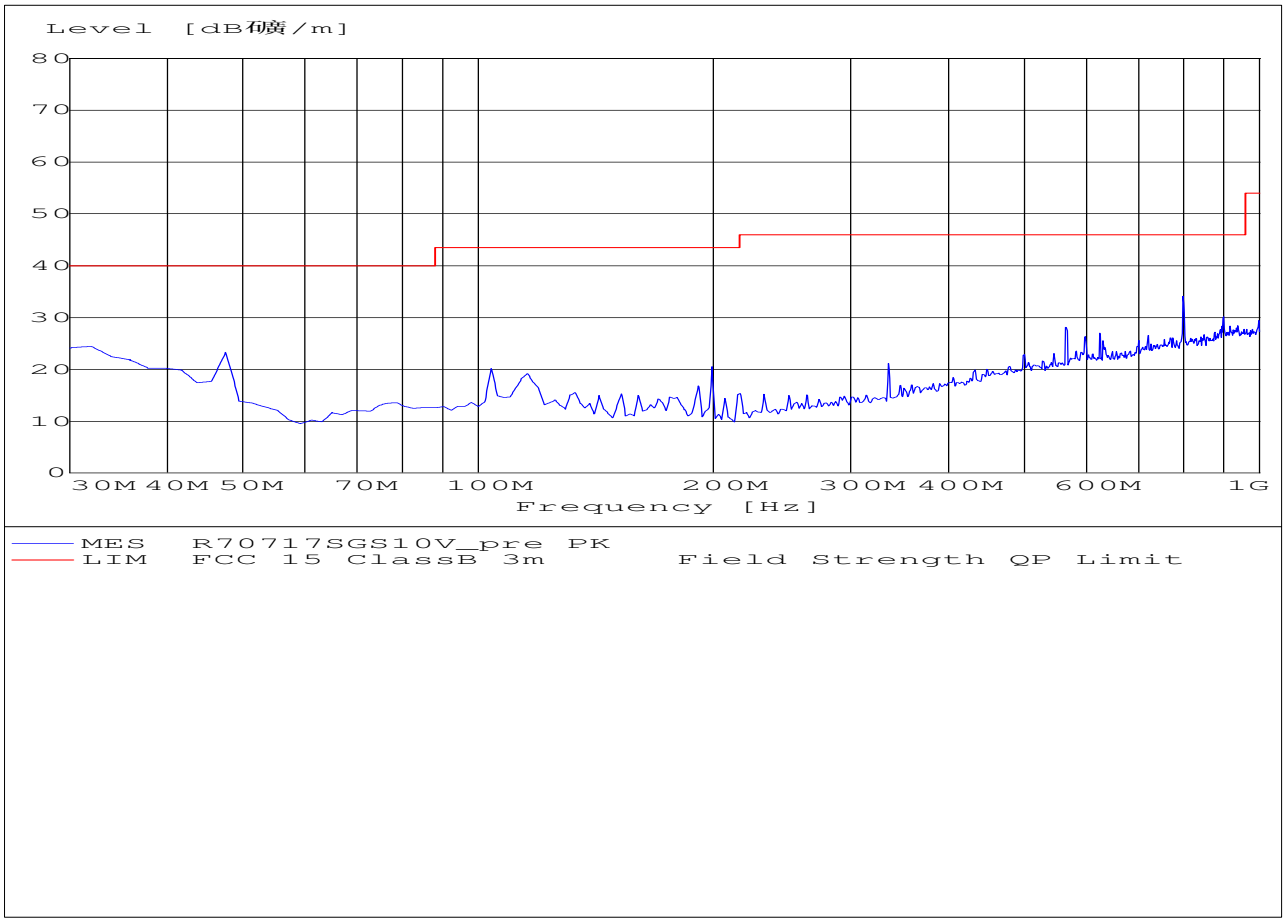
Vertical:



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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 12, 2007 to December 27, 2007 |
| Frequency Range: | 150kHz to 30MHz |
| Class: | N/A |
| Limit: | 66 dBμV - 56 dBμVbetween 150kHz & 500kHz Quasi-peak |
| | 56 dBμV between 0.5MHz & 5MHz Quasi-peak |
| | 60 dBμV 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.

**Note**: The test was performed for all the functions, and we just choose the worst case in this report.

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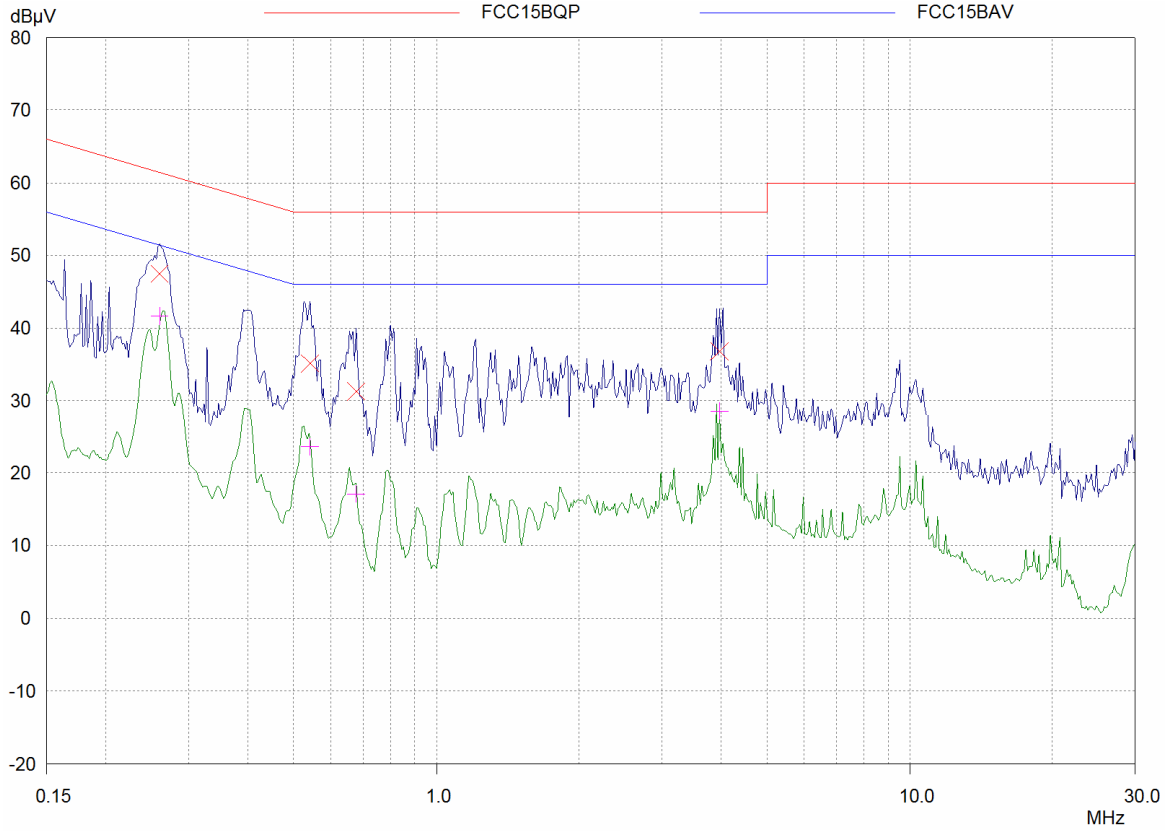
Power Supply01: AC to DC charger (Model NO: T5000436AGAA Input: AC 100V-240V~, 50/60Hz 0.15A Output:DC 5.0V, 0.4A)
Manufactures: TenPao

GSM 850 connected:

L Line:




Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.25993 | 47.46 | 61.43 | 13.97 |
| 0.54104 | 35.17 | 56.00 | 20.83 |
| 0.67628 | 31.26 | 56.00 | 24.74 |
| 3.96615 | 36.79 | 56.00 | 19.21 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 0.25993 | 41.61 | 51.43 | 9.82 |
| 0.54104 | 23.54 | 46.00 | 22.46 |
| 0.67628 | 16.99 | 46.00 | 29.01 |
| 3.96615 | 28.52 | 46.00 | 17.48 |

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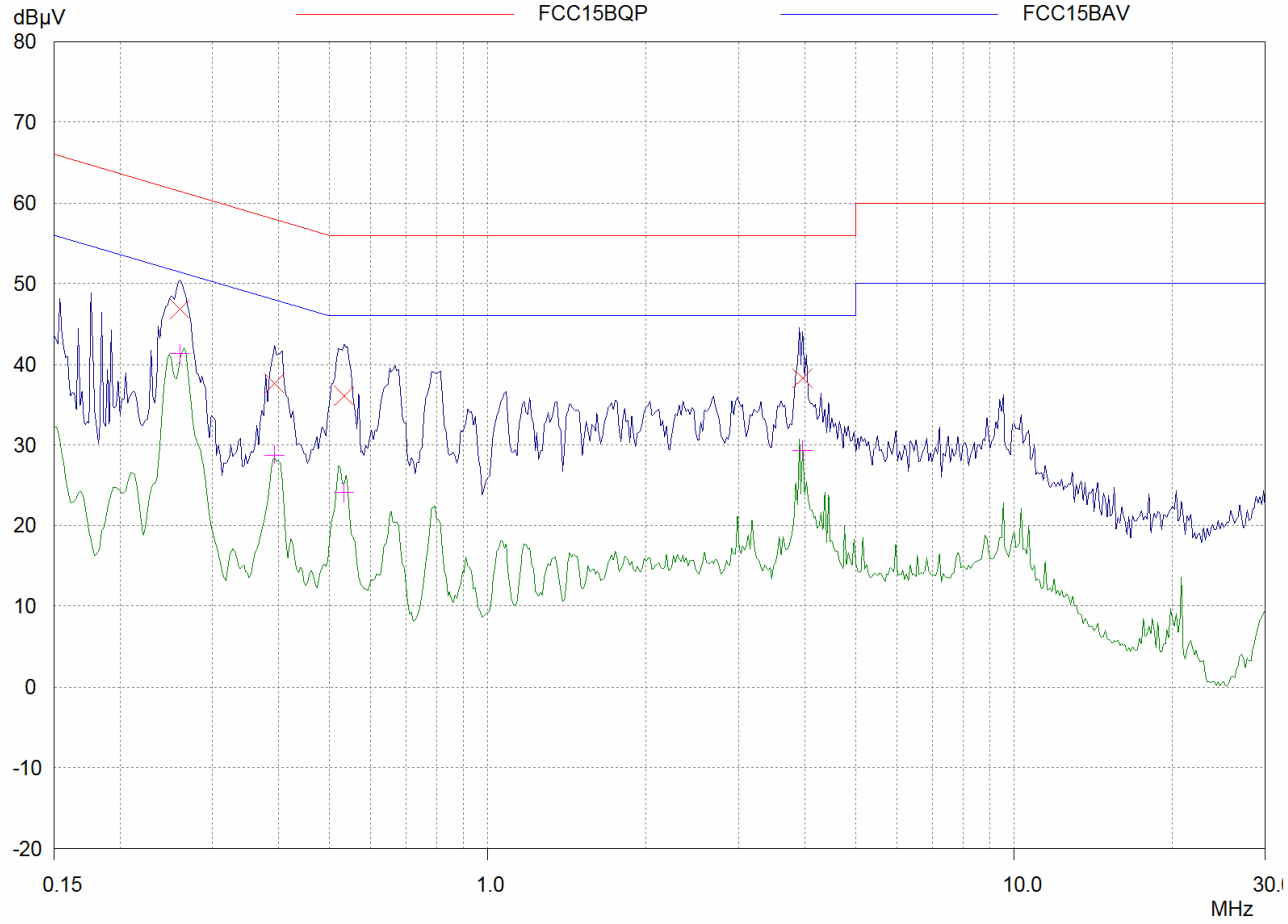
N Line:




Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.25993 | 46.84 | 61.43 | 14.59 |
| 0.39338 | 37.61 | 57.99 | 20.38 |
| 0.53249 | 36.07 | 56.00 | 19.93 |
| 3.96615 | 38.27 | 56.00 | 17.73 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 0.25993 | 41.27 | 51.43 | 10.16 |
| 0.39338 | 28.73 | 47.99 | 19.26 |
| 0.53249 | 24.03 | 46.00 | 21.97 |
| 3.96615 | 29.32 | 46.00 | 16.68 |

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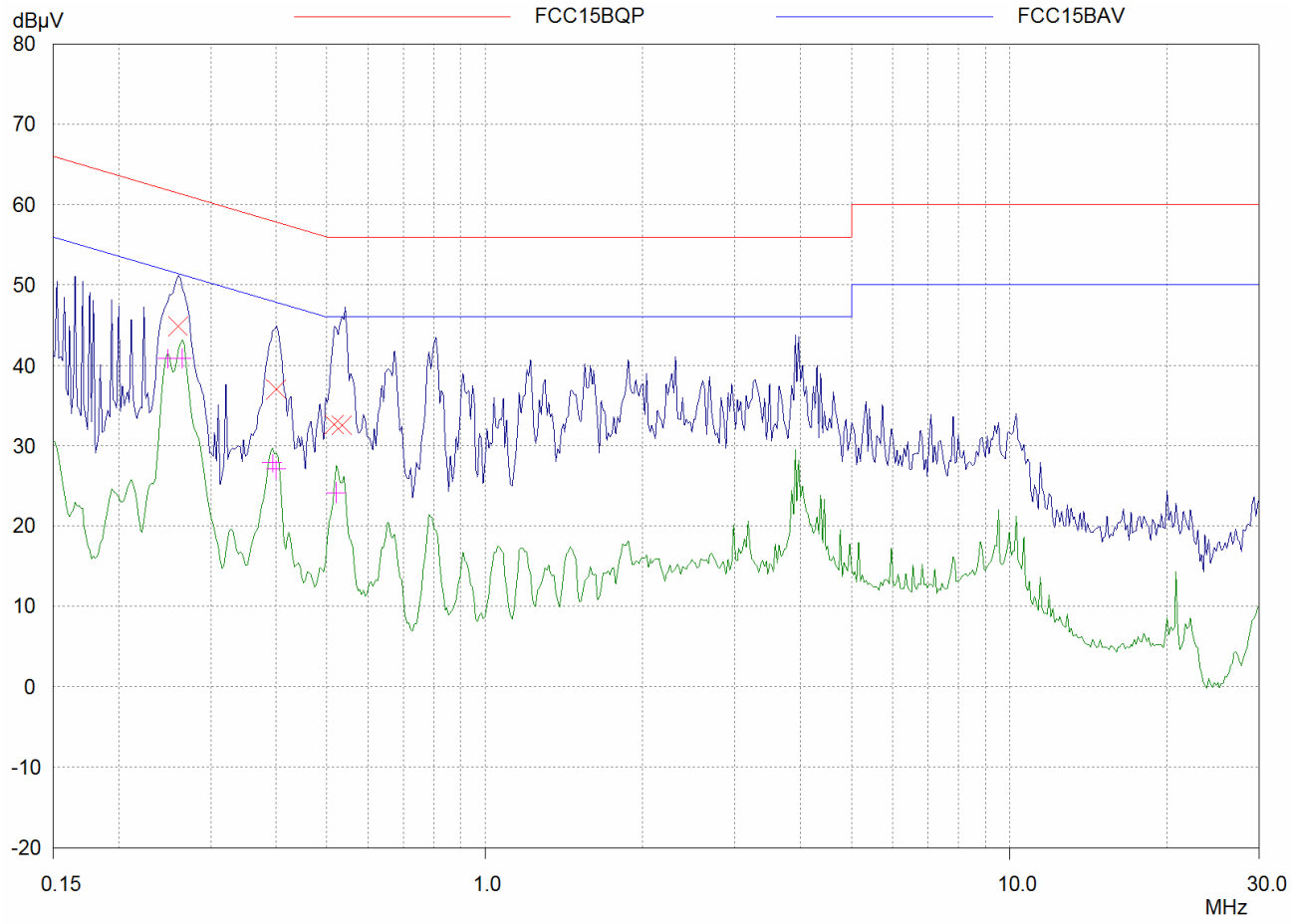
PCS 1900 connected:

L Line:




Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.25993 | 44.83 | 61.43 | 16.60 |
| 0.3997 | 37.00 | 57.86 | 20.86 |
| 0.51578 | 32.65 | 56.00 | 23.35 |
| 0.53249 | 32.55 | 56.00 | 23.45 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 0.2478 | 40.80 | 51.83 | 11.03 |
| 0.26411 | 40.84 | 51.30 | 10.46 |
| 0.39338 | 27.80 | 47.99 | 20.19 |
| 0.3997 | 26.99 | 47.86 | 20.87 |
| 0.51991 | 24.03 | 46.00 | 21.97 |

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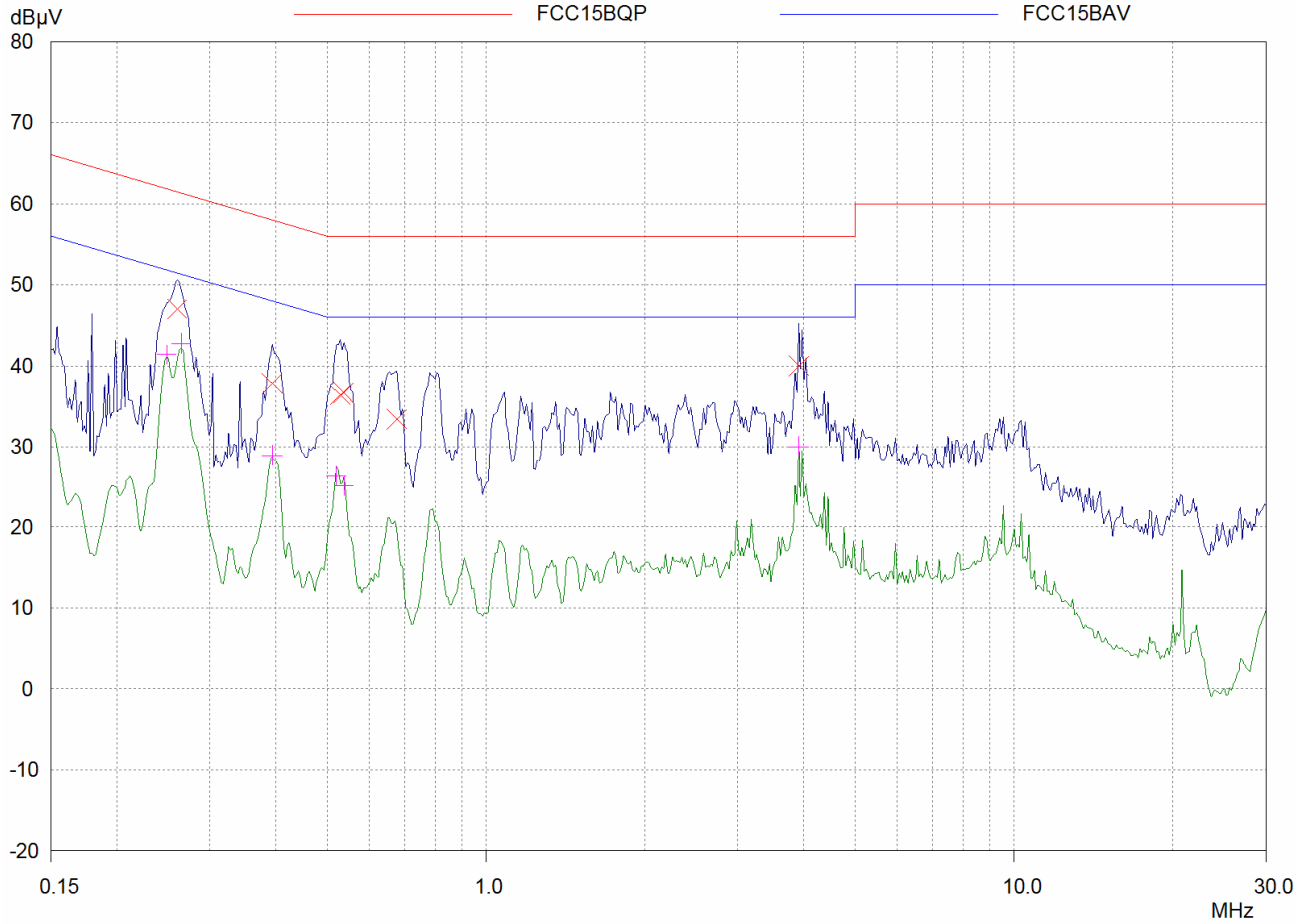
N Line:



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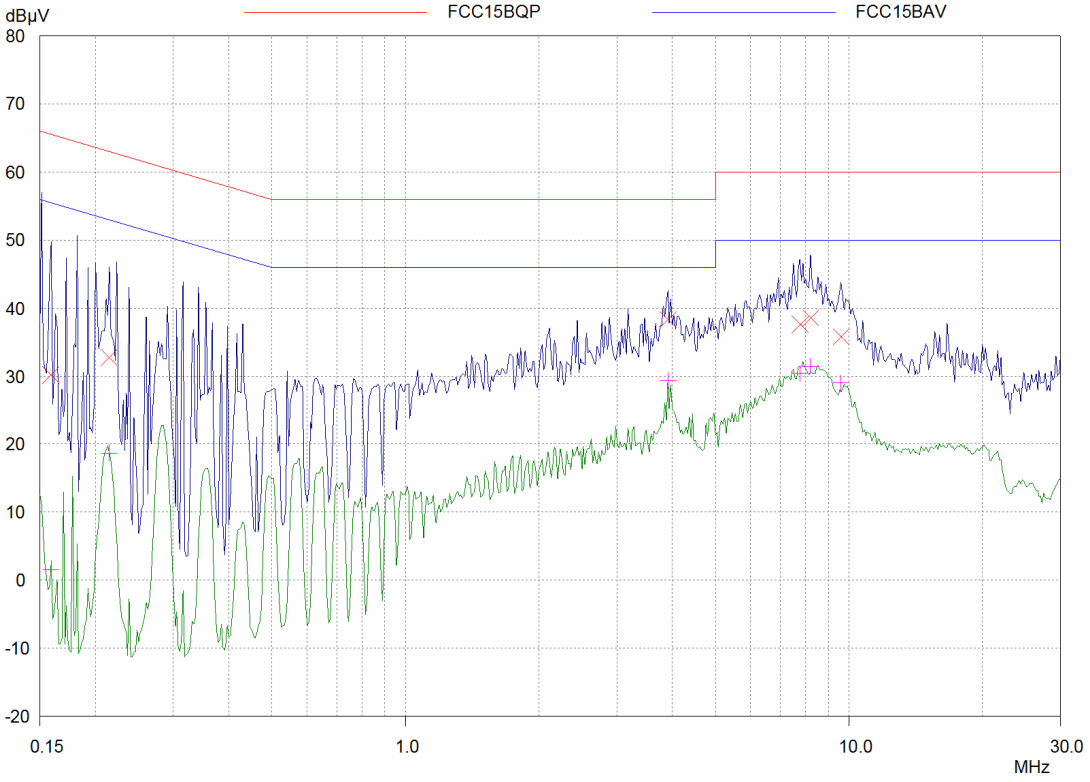
Power Supply02: AC to DC charger (Model NO: T5001448AGAA Input: AC 100V-240V~, 50/60Hz 0.1A Output:DC 4.5V, 0.3A)
Manufactures: TenPao

GSM 850 connected:

L Line:




Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.1586 | 30.23 | 65.54 | 35.31 |
| 0.21469 | 32.79 | 63.02 | 30.23 |
| 3.90345 | 38.37 | 56.00 | 17.63 |
| 7.74559 | 37.67 | 60.00 | 22.33 |
| 8.18989 | 38.57 | 60.00 | 21.43 |
| 9.60481 | 35.85 | 60.00 | 24.15 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 0.1586 | 1.55 | 55.54 | 53.99 |
| 0.21469 | 18.64 | 53.02 | 34.38 |
| 3.90345 | 29.39 | 46.00 | 16.61 |
| 7.74559 | 30.45 | 50.00 | 19.55 |
| 8.18989 | 31.52 | 50.00 | 18.48 |
| 9.60481 | 29.04 | 50.00 | 20.96 |

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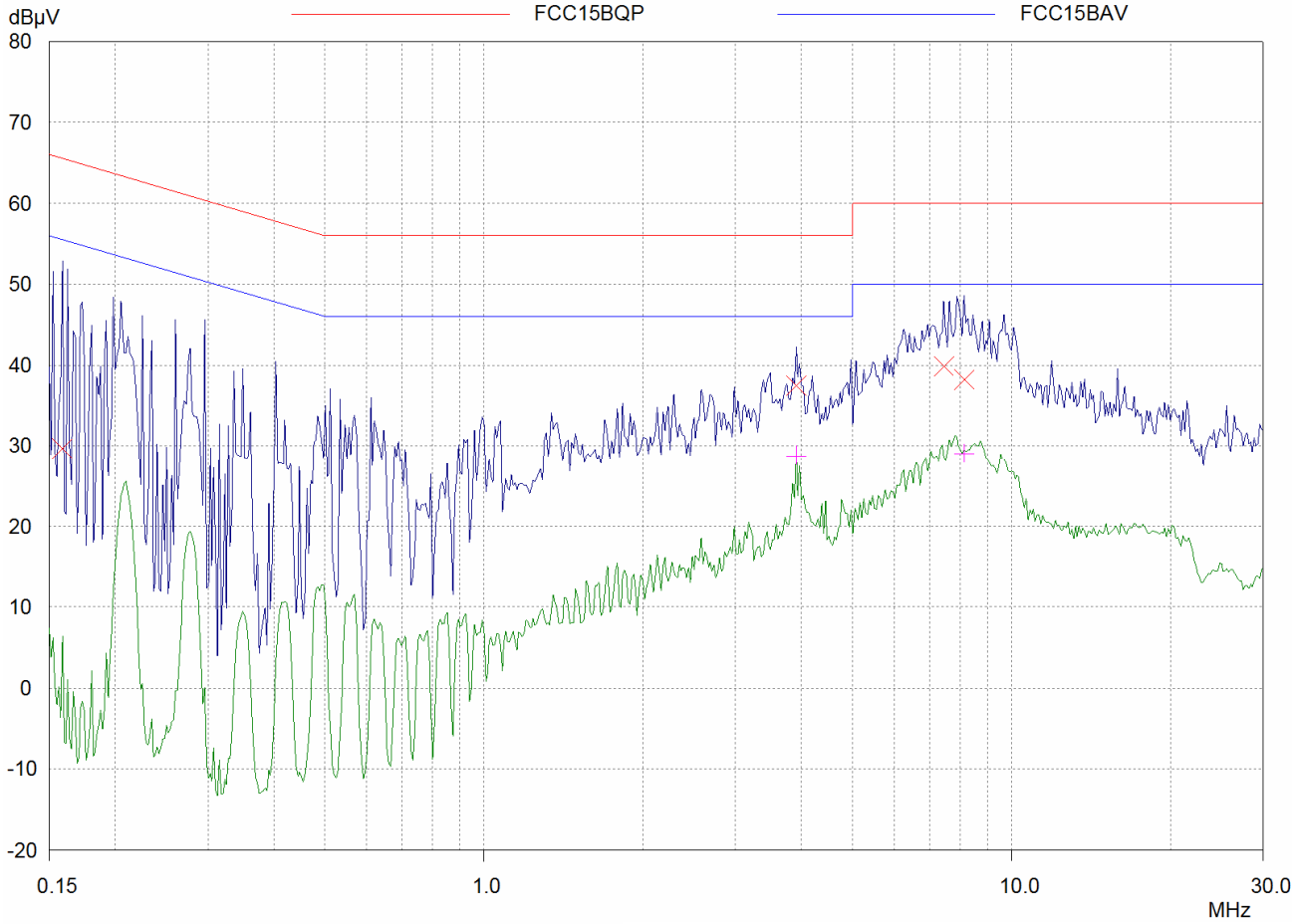
Tino_Pan@sgs.com



N Line:




Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.1586 | 29.65 | 65.54 | 35.89 |
| 3.90345 | 37.45 | 56.00 | 18.55 |
| 7.44306 | 39.87 | 60.00 | 20.13 |
| 8.12489 | 38.19 | 60.00 | 21.81 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 3.90345 | 28.78 | 46.00 | 17.22 |
| 8.12489 | 29.02 | 50.00 | 20.98 |

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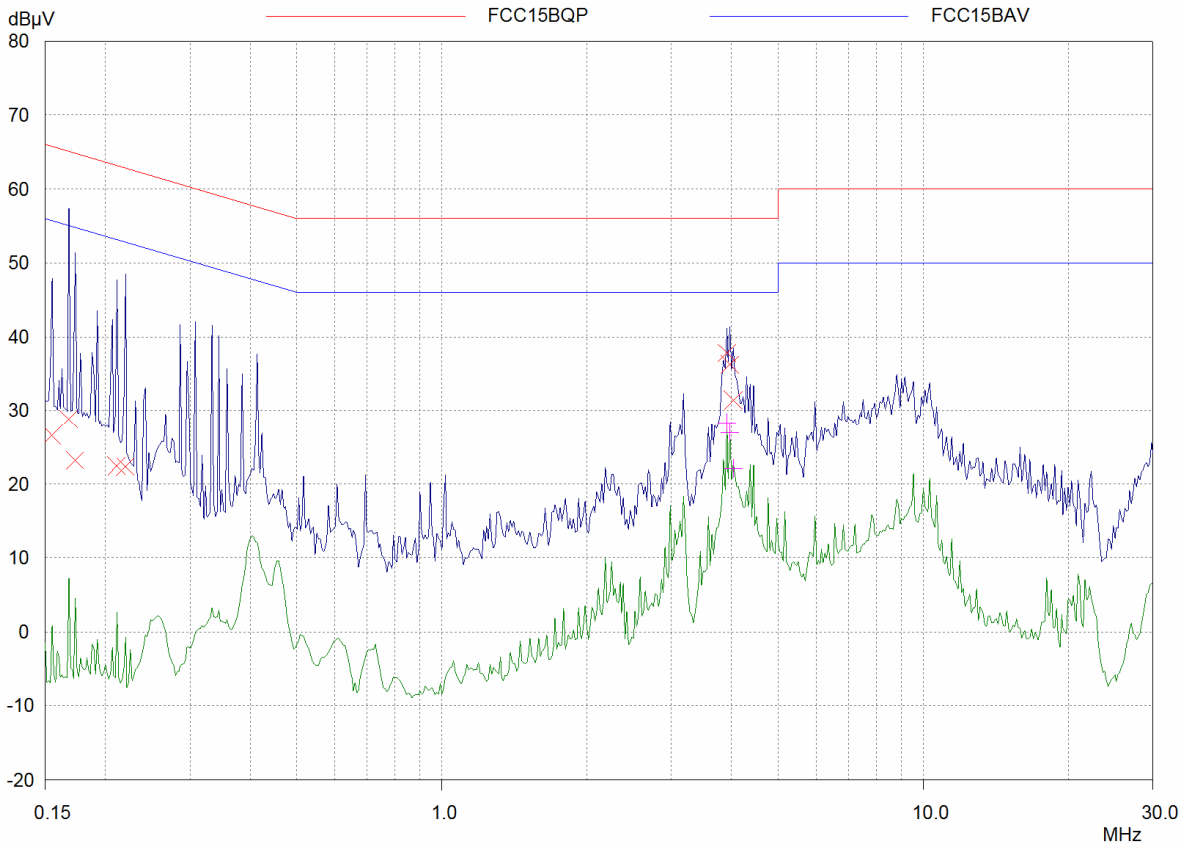
PCS 1900 connected:

L Line:




Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.15485 | 26.55 | 65.74 | 39.19 |
| 0.1677 | 28.77 | 65.07 | 36.30 |
| 0.17313 | 23.14 | 64.81 | 41.67 |
| 0.21129 | 22.38 | 63.15 | 40.77 |
| 0.21988 | 22.29 | 62.82 | 40.53 |
| 3.90345 | 37.77 | 56.00 | 18.23 |
| 3.96615 | 36.23 | 56.00 | 19.77 |
| 4.02986 | 31.41 | 56.00 | 24.59 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 3.90345 | 28.36 | 46.00 | 17.64 |
| 3.96615 | 26.98 | 46.00 | 19.02 |
| 4.02986 | 22.05 | 46.00 | 23.95 |

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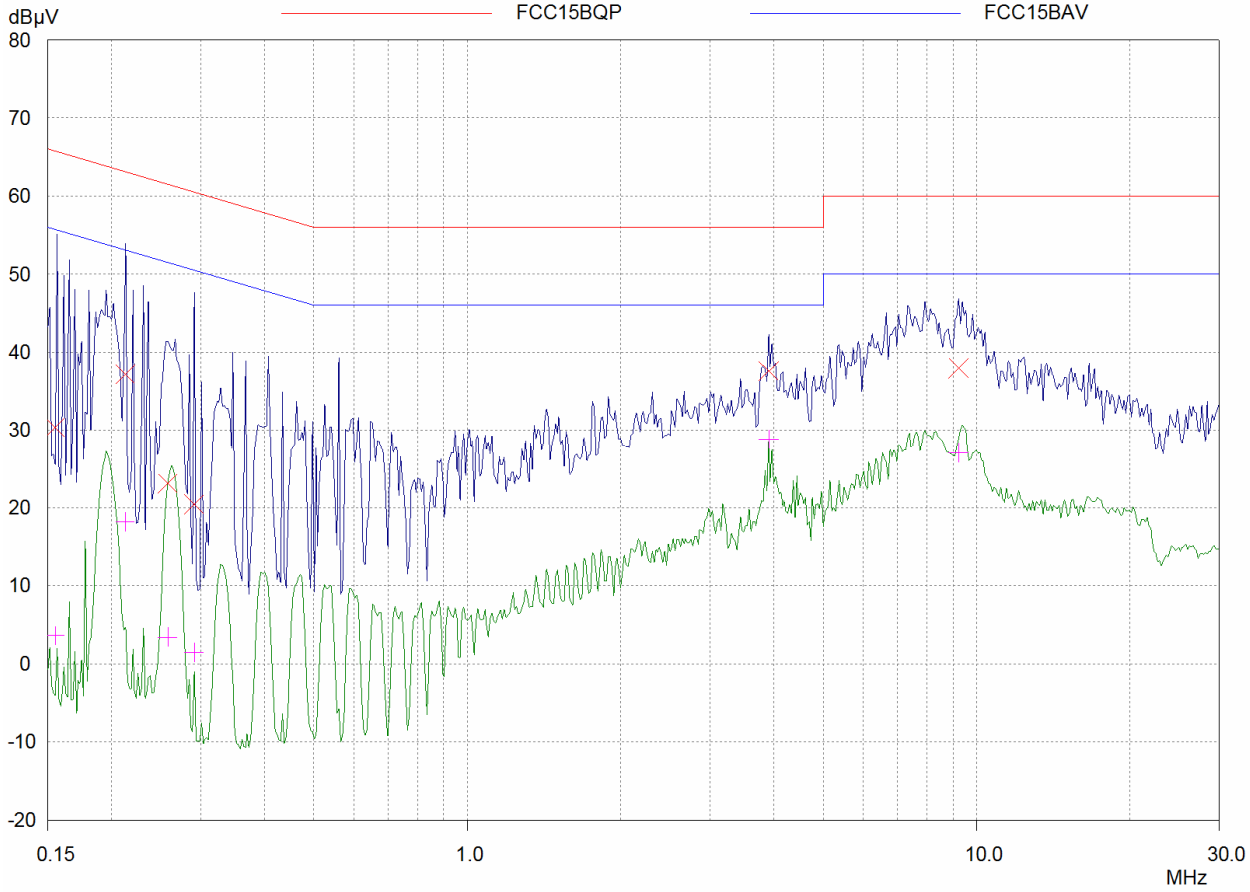
N Line:




Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.15485 | 30.33 | 65.74 | 35.41 |
| 0.21298 | 37.19 | 63.09 | 25.90 |
| 0.25787 | 23.08 | 61.50 | 38.42 |
| 0.29061 | 20.41 | 60.51 | 40.10 |
| 3.90345 | 37.55 | 56.00 | 18.45 |
| 9.22967 | 37.92 | 60.00 | 22.08 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 0.15485 | 3.54 | 55.74 | 52.20 |
| 0.21298 | 18.12 | 53.09 | 34.97 |
| 0.25787 | 3.36 | 51.50 | 48.14 |
| 0.29061 | 1.42 | 50.51 | 49.09 |
| 3.90345 | 28.78 | 46.00 | 17.22 |
| 9.22967 | 27.03 | 50.00 | 22.97 |

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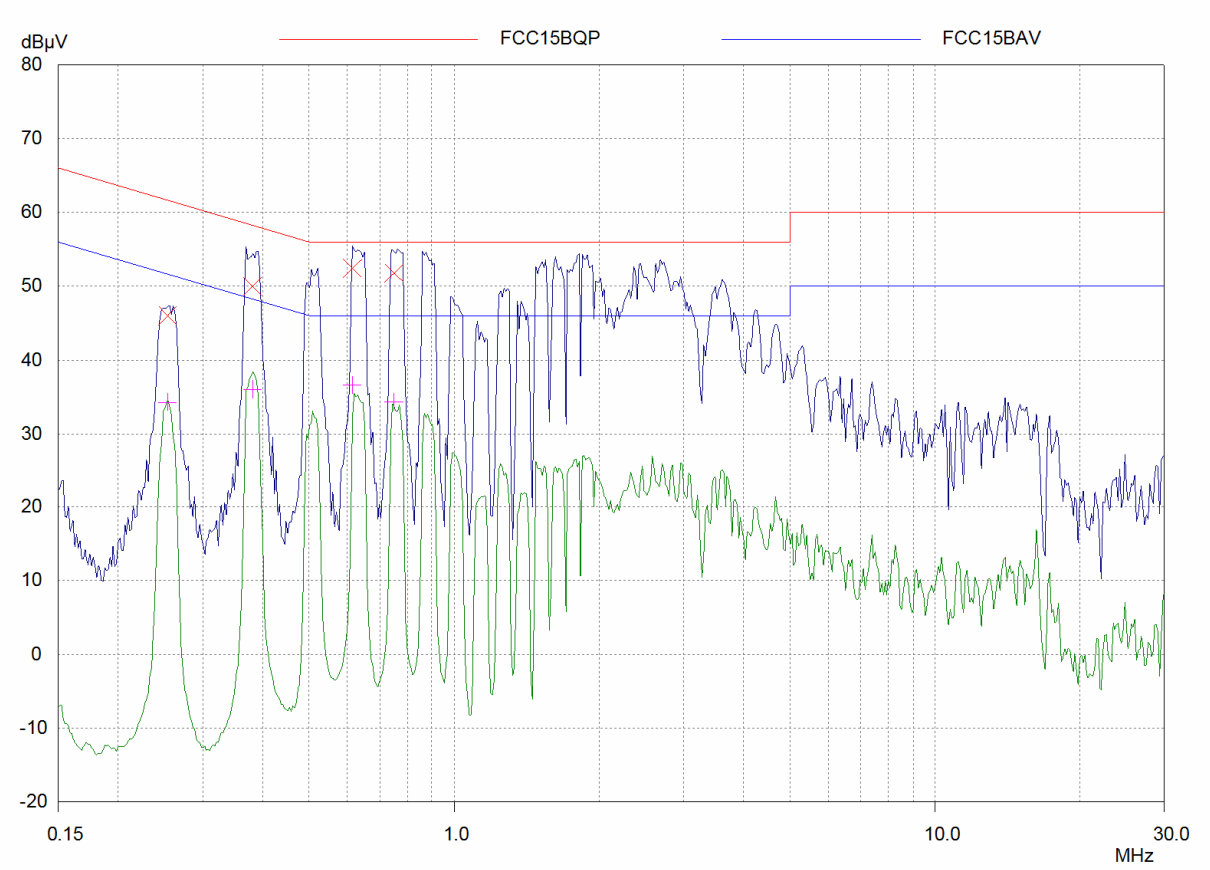
Power Supply03: AC to DC charger (Model NO: 3DS11022AGAA Input: AC 100V-240V~, 50/60Hz 0.15A Output:DC 5V, 0.5A)

GSM 850 connected:

L Line:




Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.25379 | 46.00 | 61.63 | 15.63 |
| 0.38104 | 49.98 | 58.26 | 8.28 |
| 0.61461 | 52.38 | 56.00 | 3.62 |
| 0.75009 | 51.76 | 56.00 | 4.24 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 0.25379 | 34.27 | 51.63 | 17.36 |
| 0.38104 | 36.00 | 48.26 | 12.26 |
| 0.61461 | 36.55 | 46.00 | 9.45 |
| 0.75009 | 34.34 | 46.00 | 11.66 |

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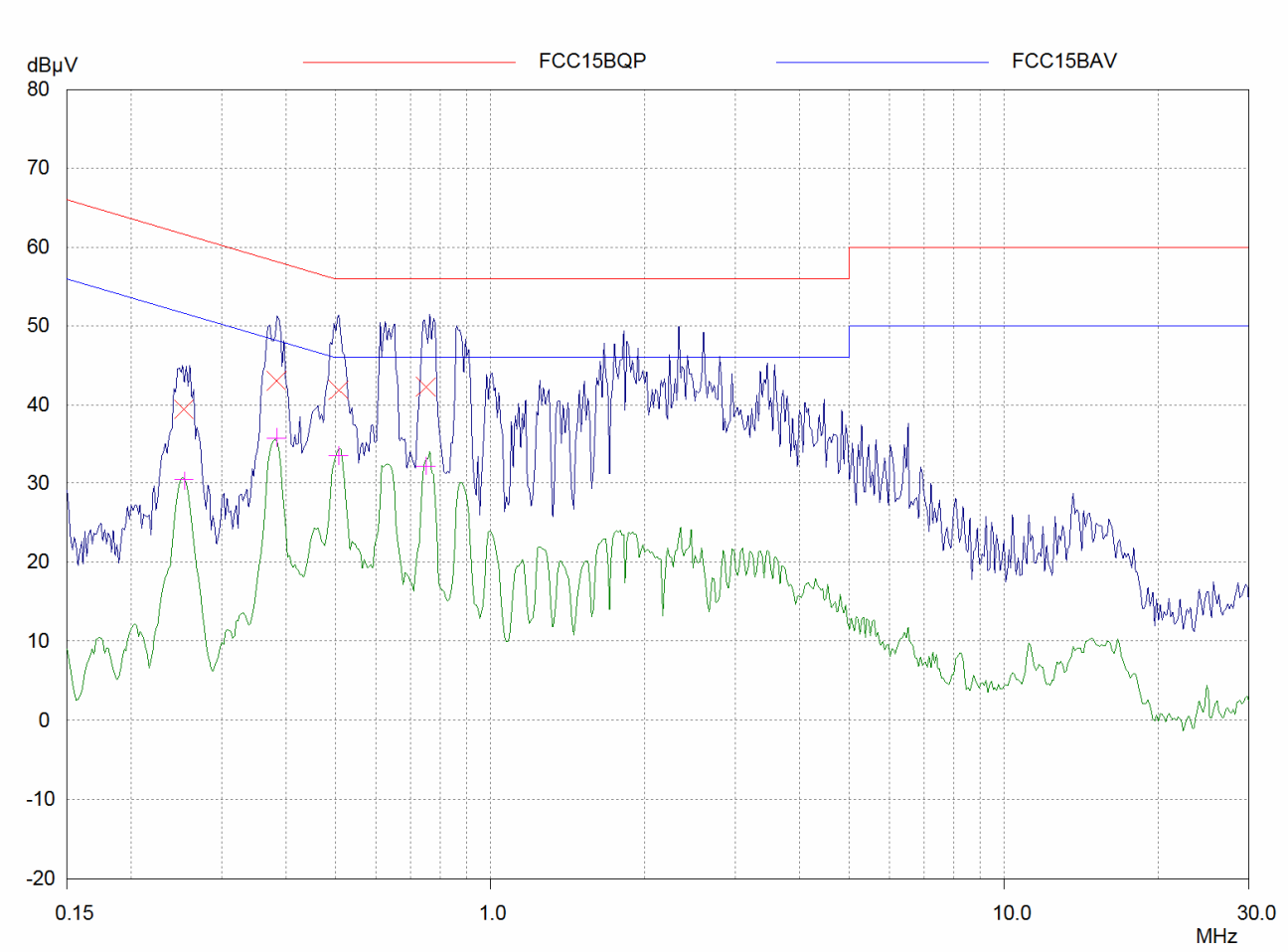
N Line:




Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.25379 | 39.48 | 61.63 | 22.15 |
| 0.38409 | 43.08 | 58.19 | 15.11 |
| 0.50763 | 41.87 | 56.00 | 14.13 |
| 0.75009 | 42.25 | 56.00 | 13.75 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 0.25379 | 30.36 | 51.63 | 21.27 |
| 0.38409 | 35.84 | 48.19 | 12.35 |
| 0.50763 | 33.59 | 46.00 | 12.41 |
| 0.75009 | 32.17 | 46.00 | 13.83 |

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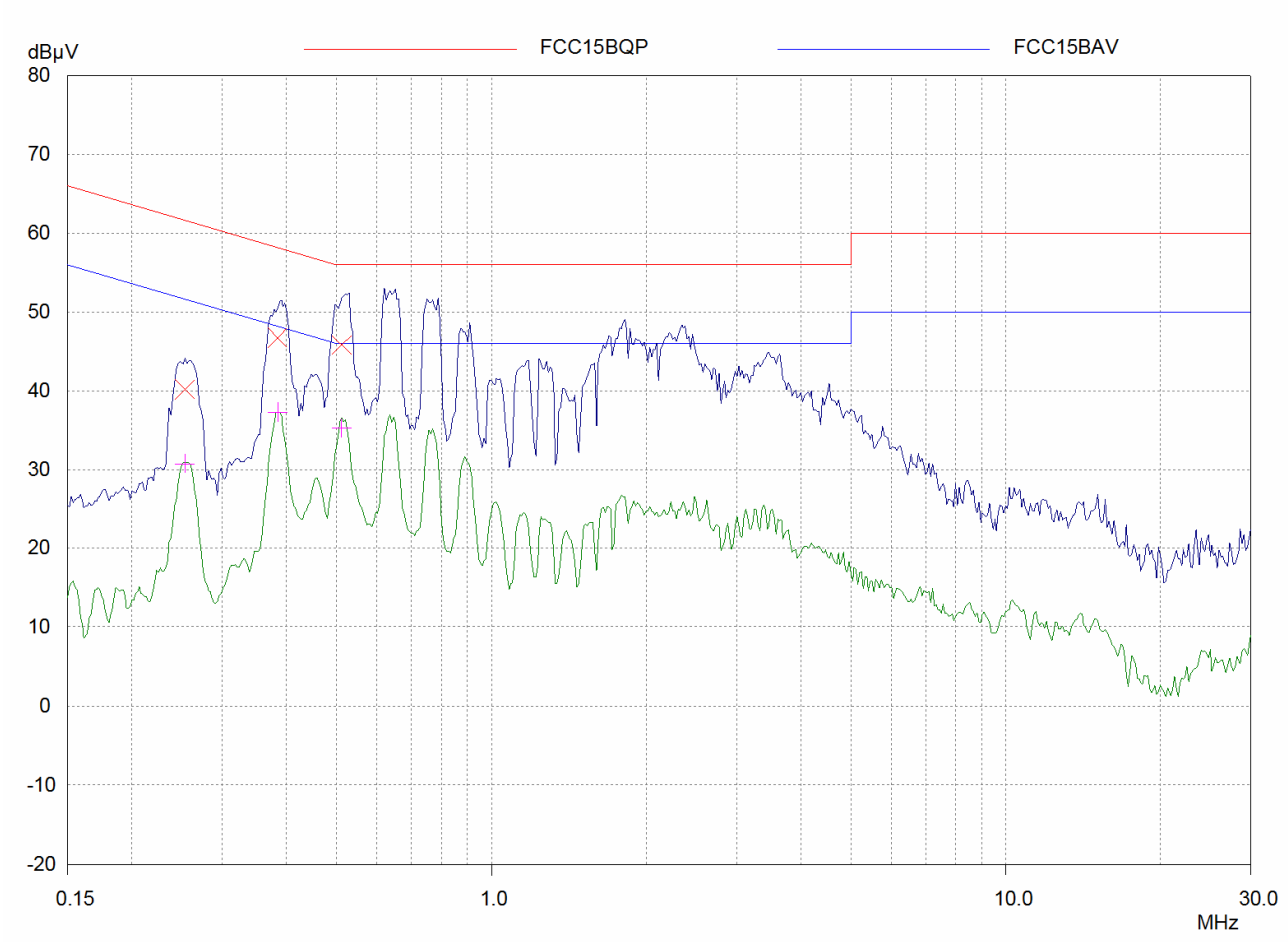
PCS 1900 connected:

L Line:




Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.25379 | 40.16 | 61.63 | 21.47 |
| 0.38409 | 46.70 | 58.19 | 11.49 |
| 0.51169 | 45.79 | 56.00 | 10.21 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 0.25379 | 30.73 | 51.63 | 20.90 |
| 0.38409 | 37.25 | 48.19 | 10.94 |
| 0.51169 | 35.30 | 46.00 | 10.70 |

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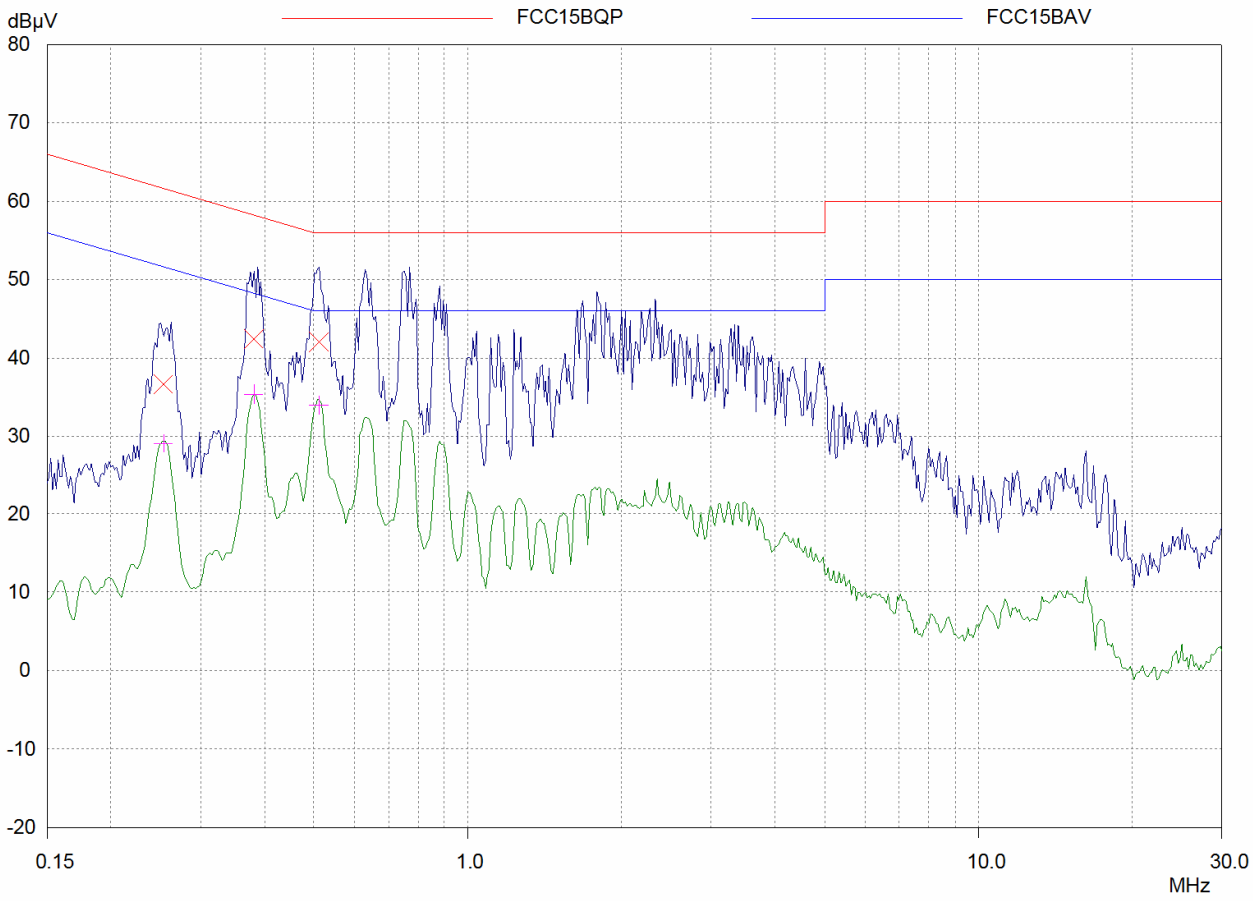


Final Measurement Results

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta dB |
|---|---|---|---|
| 0.25379 | 36.60 | 61.63 | 25.03 |
| 0.38104 | 42.40 | 58.26 | 15.86 |
| 0.51169 | 42.01 | 56.00 | 13.99 |

| Frequency MHz | AV Level dBµV | AV Limit dBµV | AV Delta dB |
|---|---|---|---|
| 0.25379 | 29.01 | 51.63 | 22.62 |
| 0.38104 | 35.34 | 48.26 | 12.92 |
| 0.51169 | 33.90 | 46.00 | 12.10 |

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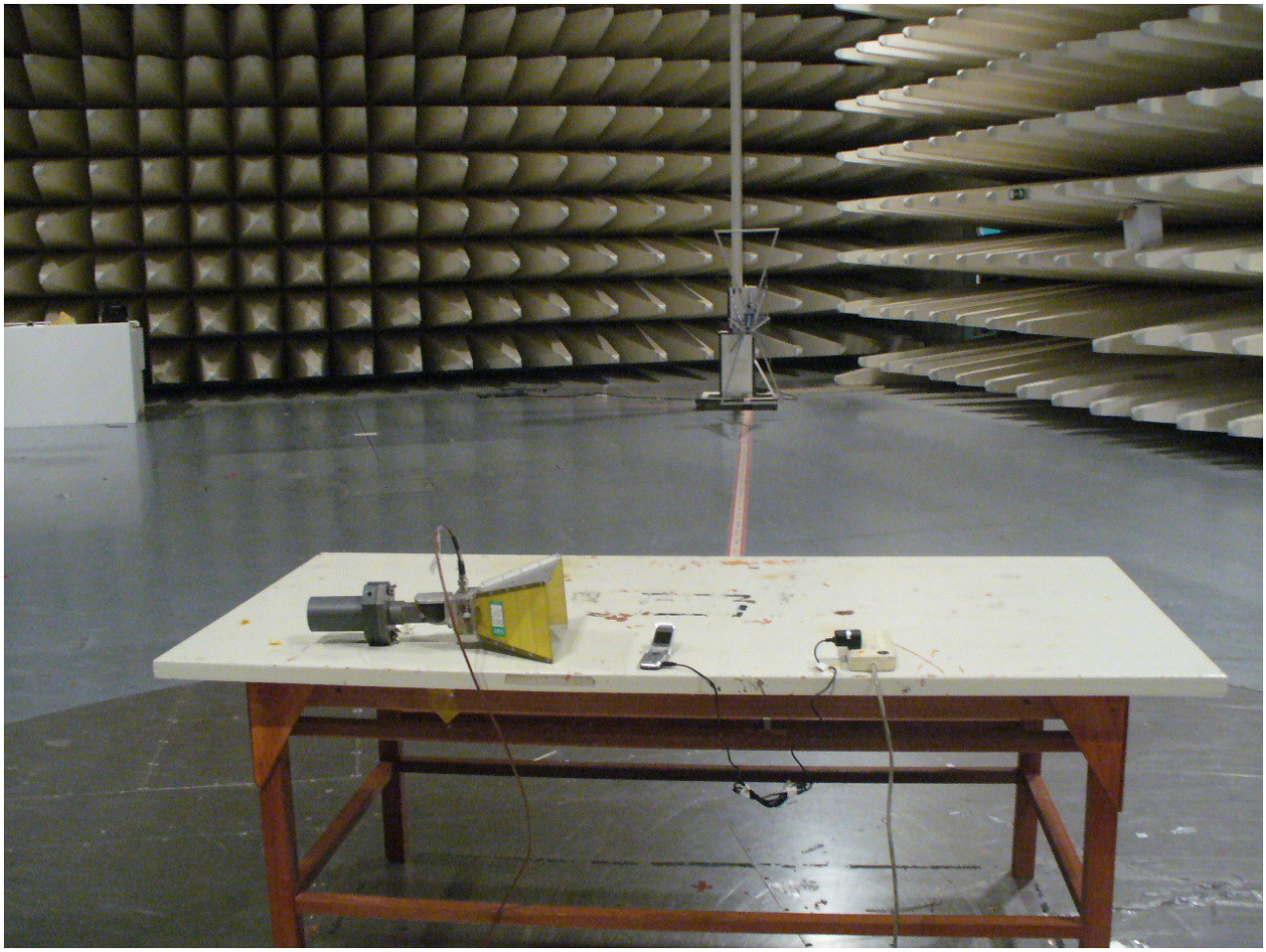
# 7 Photographs

## 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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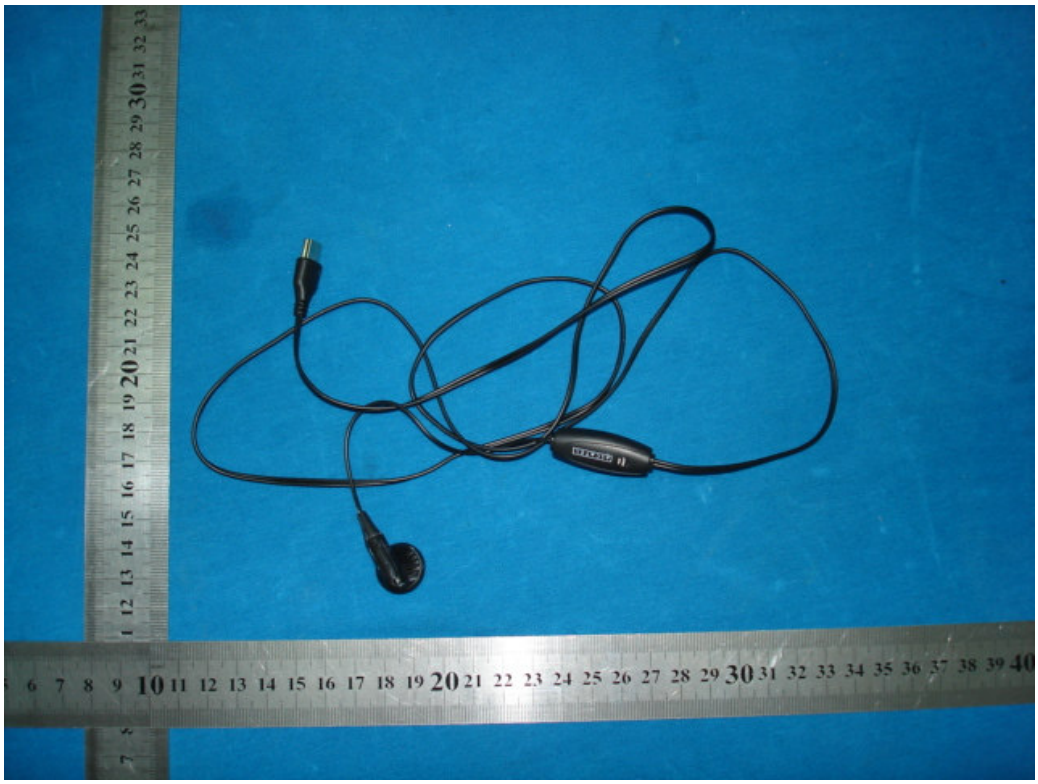

**THE END OF REPORT**