

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

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## ***EMC TEST REPORT***

**Application No.:** SHEMO080400014TL

**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 Name:** U81C FMA

**Market Name:** OT-S211A

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

**Date of Receipt:** April 18, 2008

**Date of Test:** April 18, 2008 to April 25, 2008

**Date of Issue:** April 28, 2008

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

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



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



Benson Shen  
E&E EMC Engineer  
SGS-CSTC Co., Ltd

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

All test results in this report can be traceable to National or International Standards.

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## 2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission 30MHz-1000MHz	CFR 47 Part 15	ANSI C63.4: 2003	Class B	PASS
Conducted Emission 150KHz-30MHz	CFR 47 Part 15	ANSI C63.4: 2003	Class B	PASS

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## 4 General Information

### 4.1 Client Information

Applicant: 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.: U81C FMA  
Marketing Name: OT-S211A  
Frequency Bands: GSM850/PCS1900  
Power Supply1: AC to DC charger (Model No.: T50002684AGAA Input: AC 100V-240V~, 50/60Hz 150mA Output:DC 5.0V, 500mA)  
Manufactures: Tenpao  
Power Supply2: AC to DC charger (Model No.: T50002684AGAB Input: AC 100V-240V~, 50/60Hz 150mA Output:DC 5.0V, 500mA)  
Manufactures: SCUD  
Power cord: 2m  
Battery1: DC 3.7V / 670mAh  
P/N: CAB2001010C1  
Manufacturers: BYD  
Battery2: DC 3.7V / 670mAh  
P/N: CAB2001010C2  
Manufacturers: Coslight  
Earphone: Model No.: CCA2005000E0

### 4.3 Description of Support Units

The EUT has been tested as an independent unit.

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## 4.4 Standards Applicable for Testing

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

**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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## 4.5 Test Location

The tests of Radiated Emissions was performed at:

SIMT EMC Laboratory, 1/F, Building No.1, 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

## 4.6 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 dates: 2008-01-01 through 2009-12-31.

### **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 19, 2004. Valid until May 18, 2007

### **CNAL – LAB Code: L0134**

SIMT EMC Laboratory has been assessed and in compliance with CNAL/AC01:2005 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 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. Effective dates: November 30, 2005 through November 30, 2008. With the above and NVLAP, SIMT is an authorized test laboratory for the DoC process.

## 4.7 Abnormalities from Standard Conditions

None.

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## 5 Equipment Used during Test

RE in SAC		ETSI EN 301 489-1: EN 55022				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due date
1	HORN ANTENNA	R&S	HF 906	100023	2007-06-17	2008-06-16
2	BROADBAND ANTENNA	R&S	HL 562	100019	2007-06-17	2008-06-16
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2008-03-06	2009-03-05
4	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	100536	2008-01-25	2009-01-24

Conducted Emission		ETSI EN 301 489-1: EN 55022				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2007-6-29	2008-6-28
2	Line impedance stabilization network	ETS	3816/2	00034161	2007-6-29	2008-6-28

### General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due 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:	April 18, 2008 to April 25 2008
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: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1011 mbar

EUT Operation: EUT allocated with adaptor in GSM850/PCS1900.

**Note:** We have performed all status and we just choose the worse case in this report,

1. we tested 15B emissions with power on EUT.

2. we tested 15B related emissions when carrier turn on.

\*\* Please note that: this is Pt.22/24 Tx device, not Pt.15C Tx device.

The carrier and related emissions test data is in Pt.22/24, we test carrier on emission for your reference.

3. we tested 15B emissions as a receiver when carrier turn off.

And we have found there is no additional emission happens in condition1 & condition2, so we have the condition 1 test result as the worst data shown in the report.

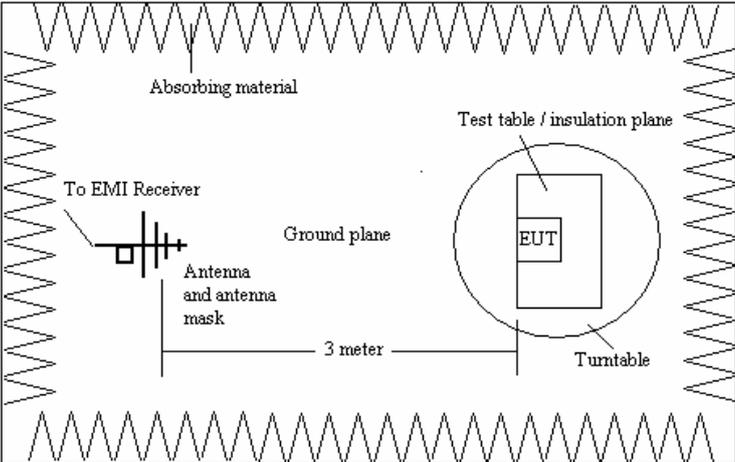
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## 6.1.2 Test setup:



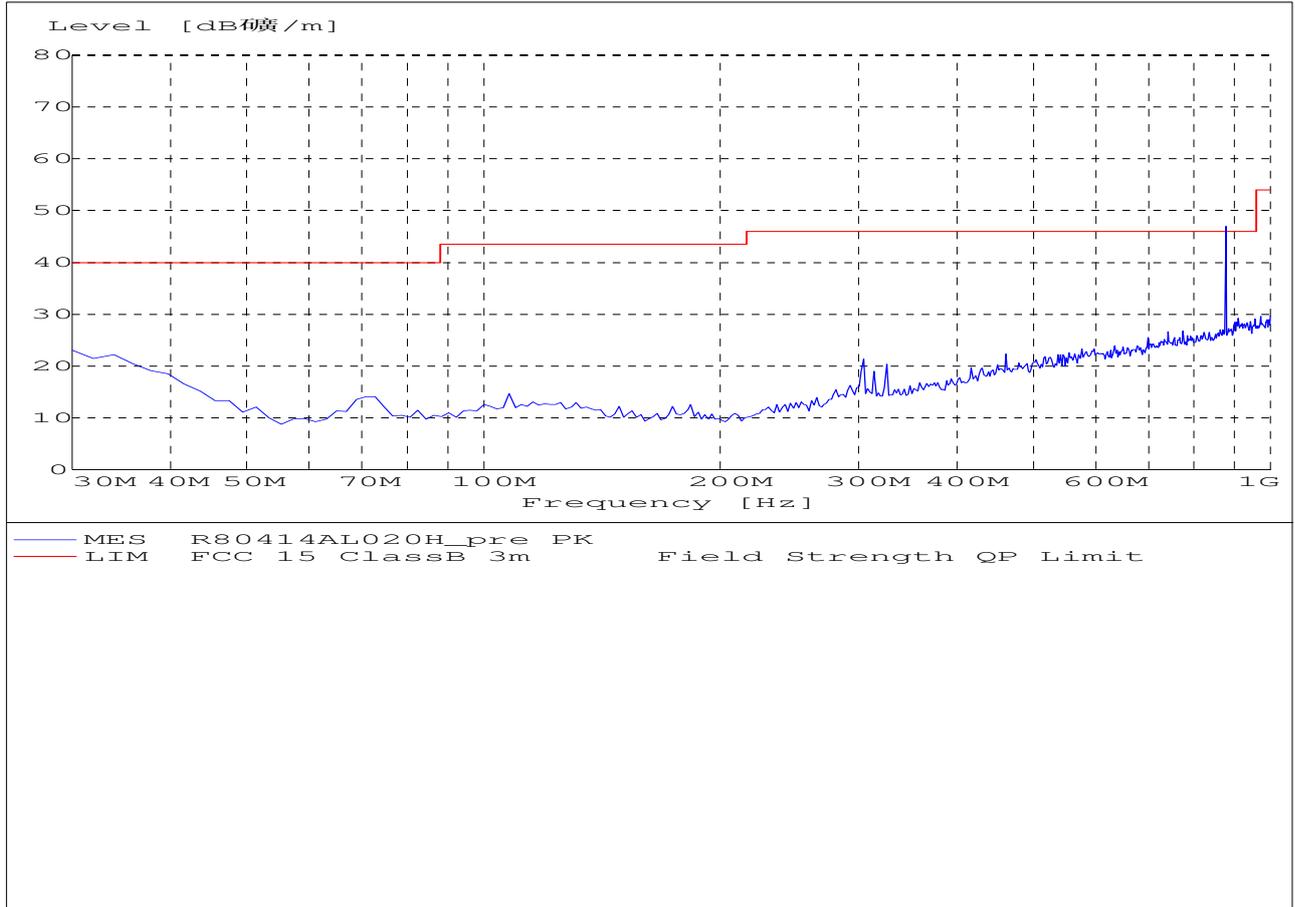
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GSM 850 idle mode: (connected with T50002684AGAA power adapter of Tenpao)  
Horizontal:



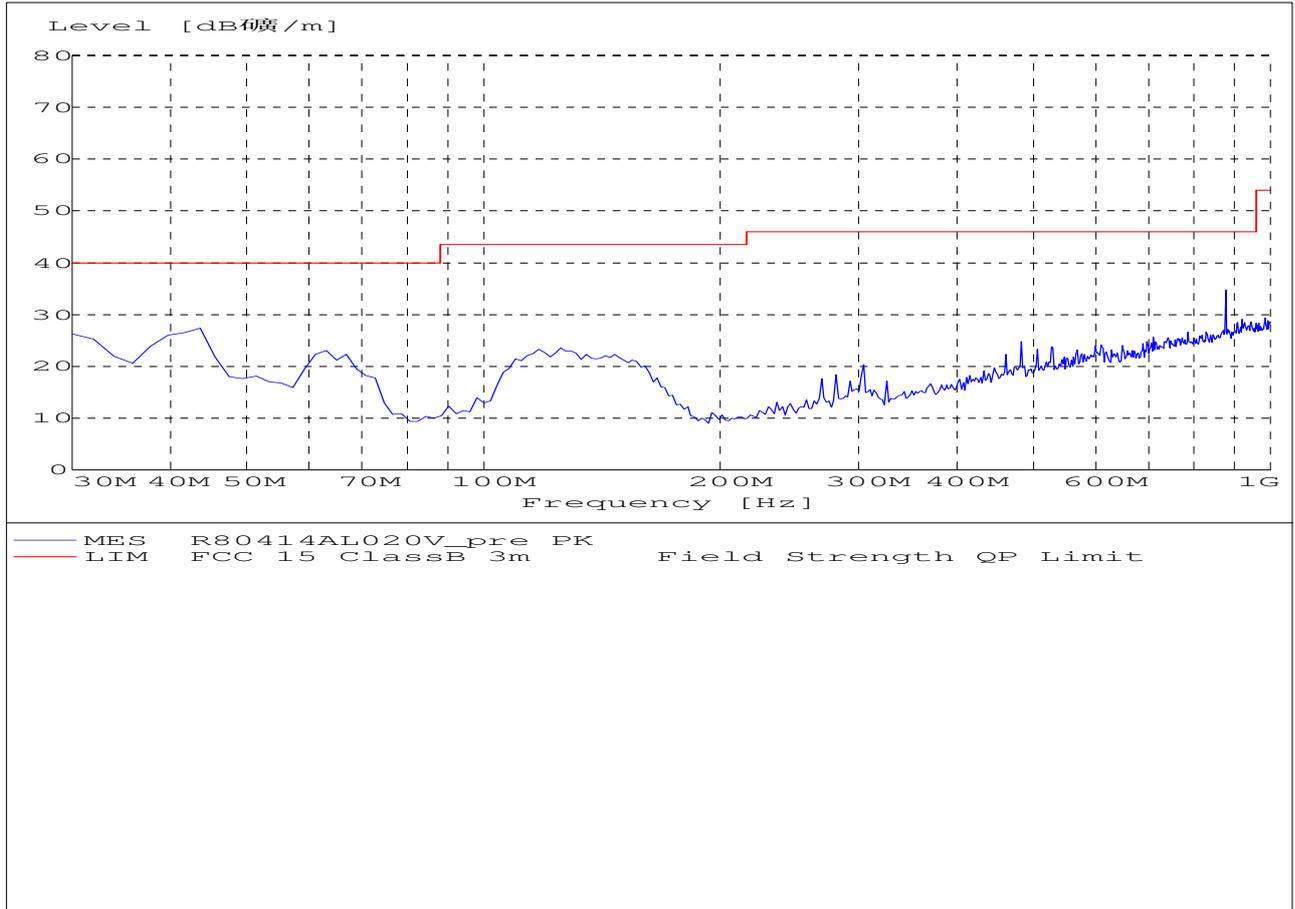
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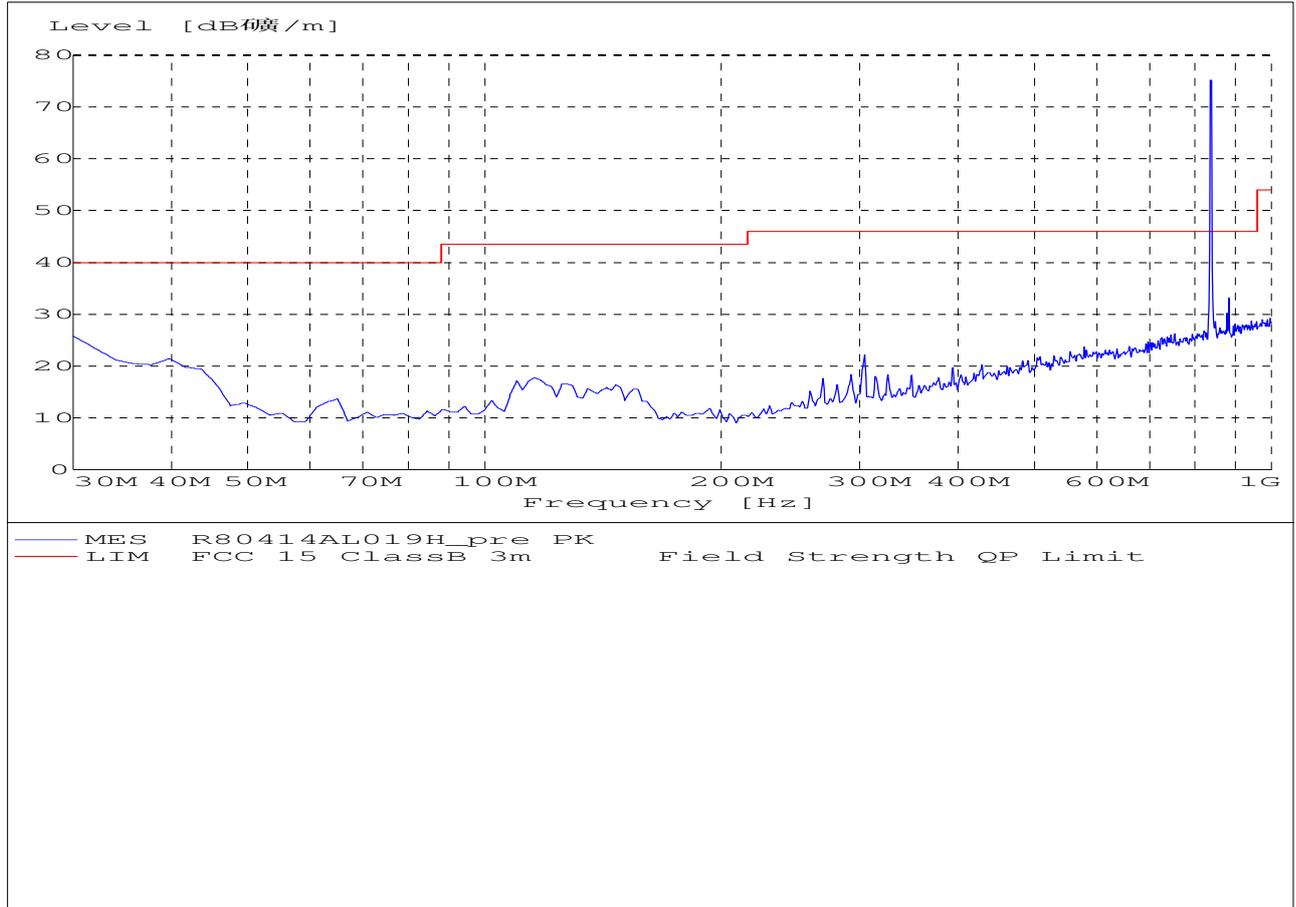
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GSM 850 communication mode: (connected with T50002684AGAA power adapter of Tenpao)  
Horizontal:



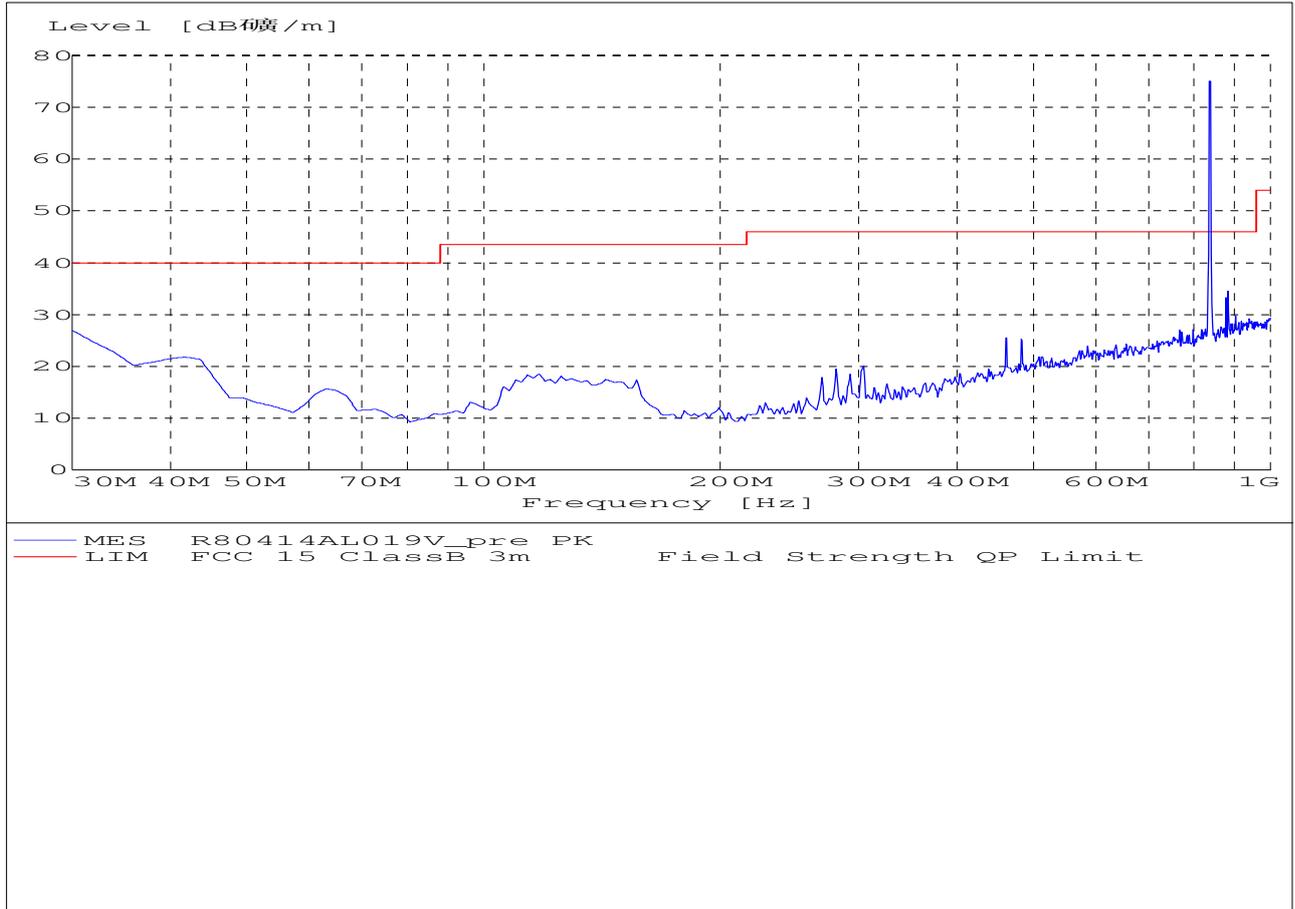
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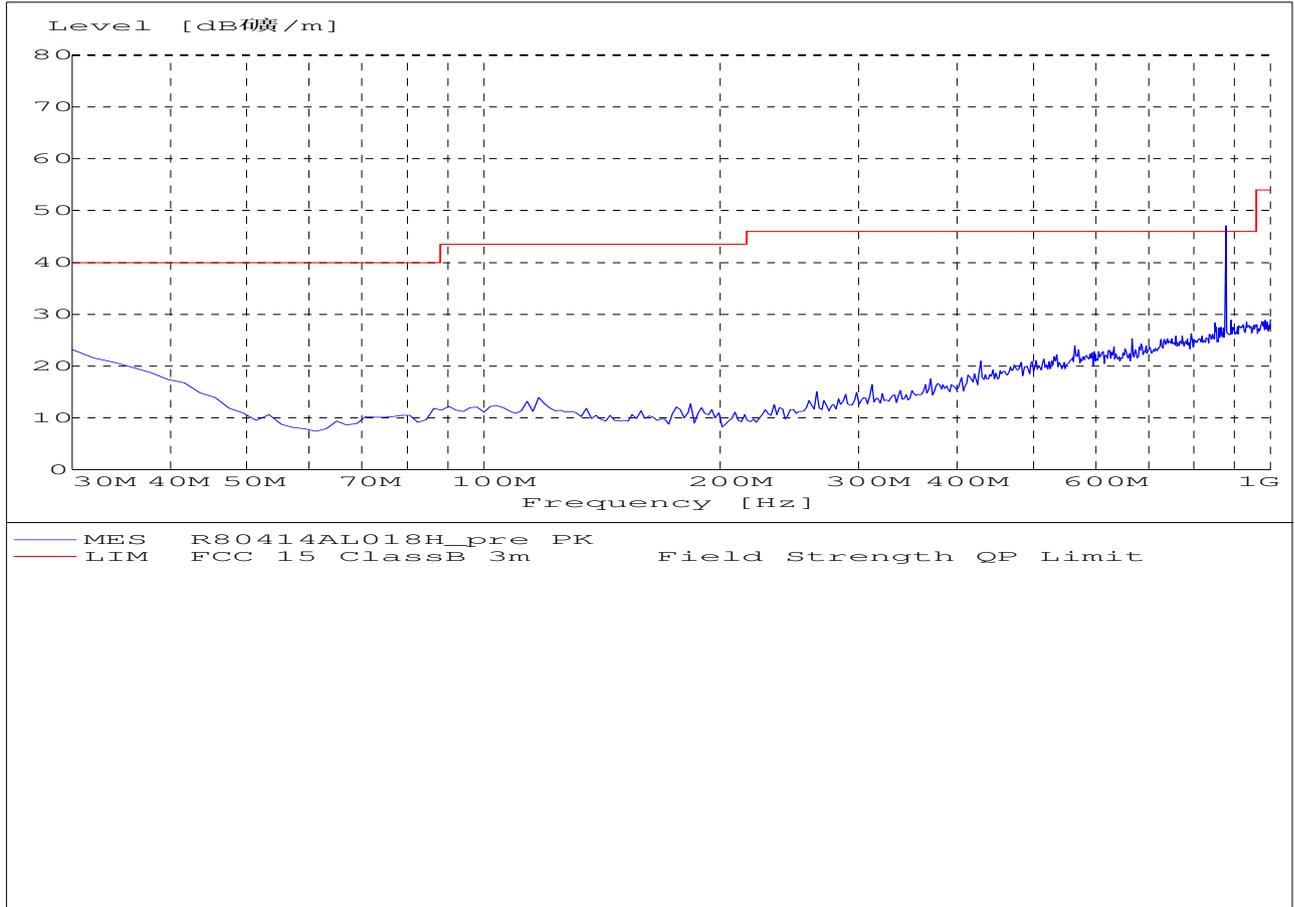
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GSM 850 idle mode: (connected with T50002684AGAB power adapter of SCUD)  
Horizontal:



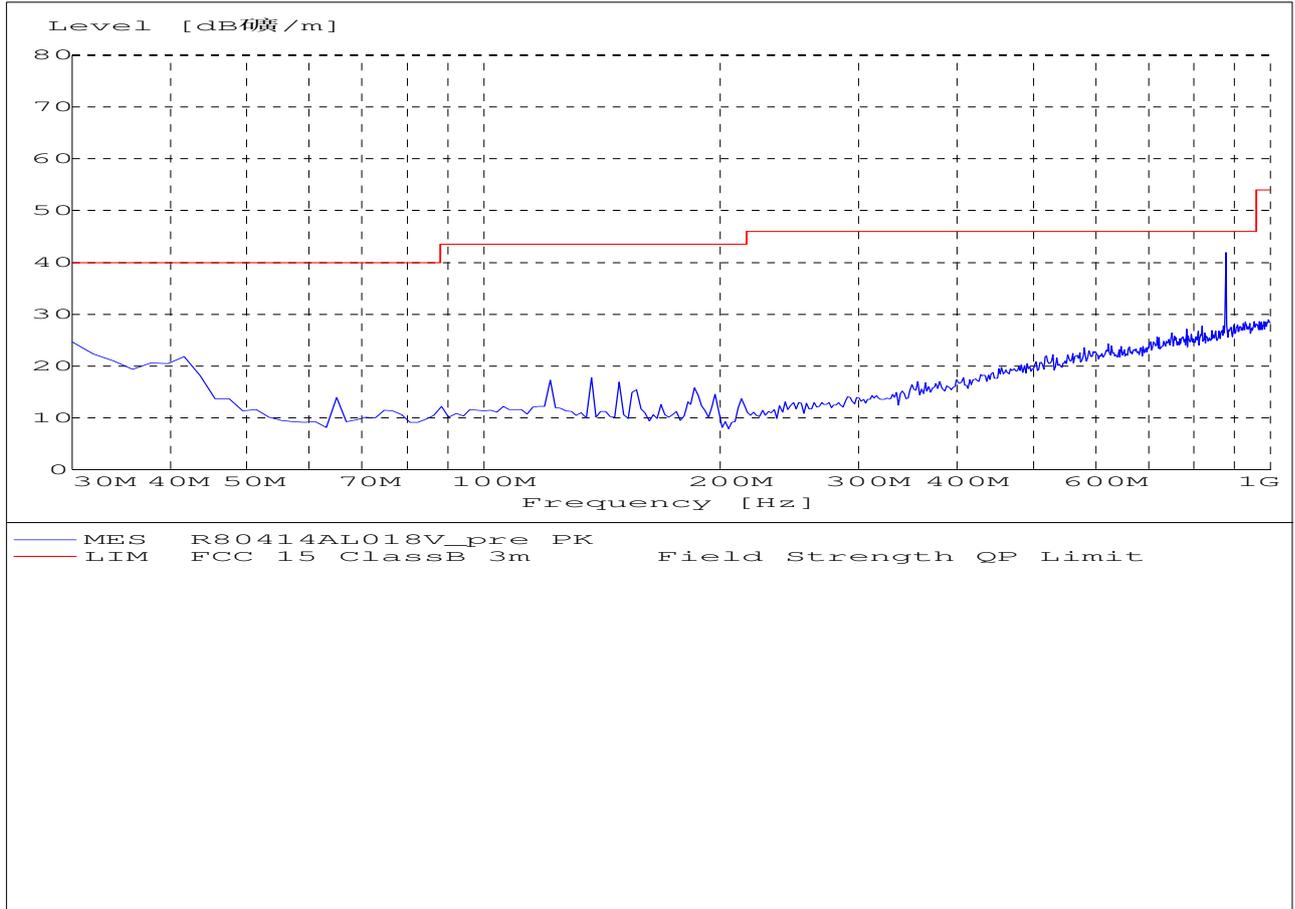
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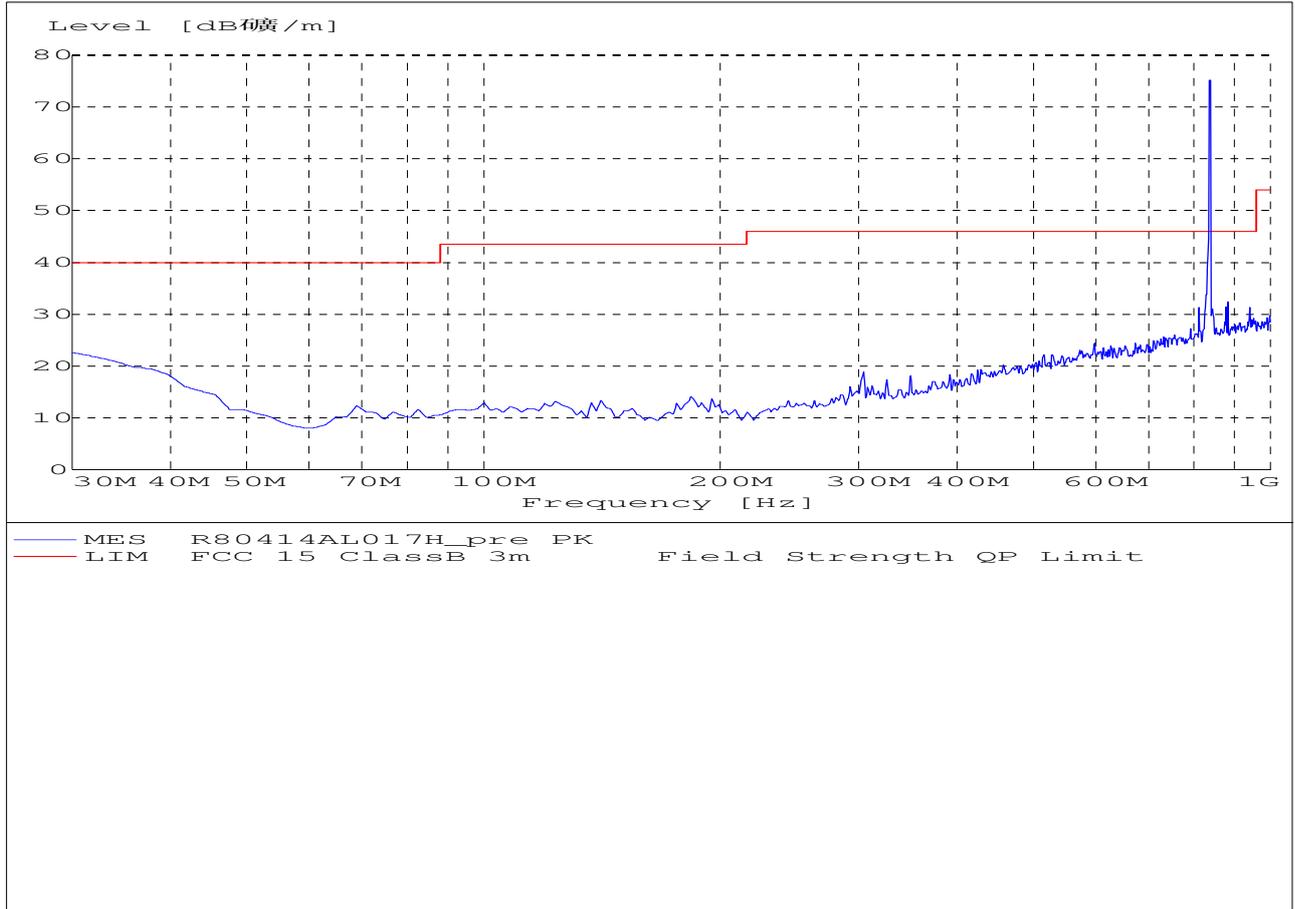
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GSM 850 communication mode: (connected with T50002684AGAB power adapter of SCUD)  
Horizontal:



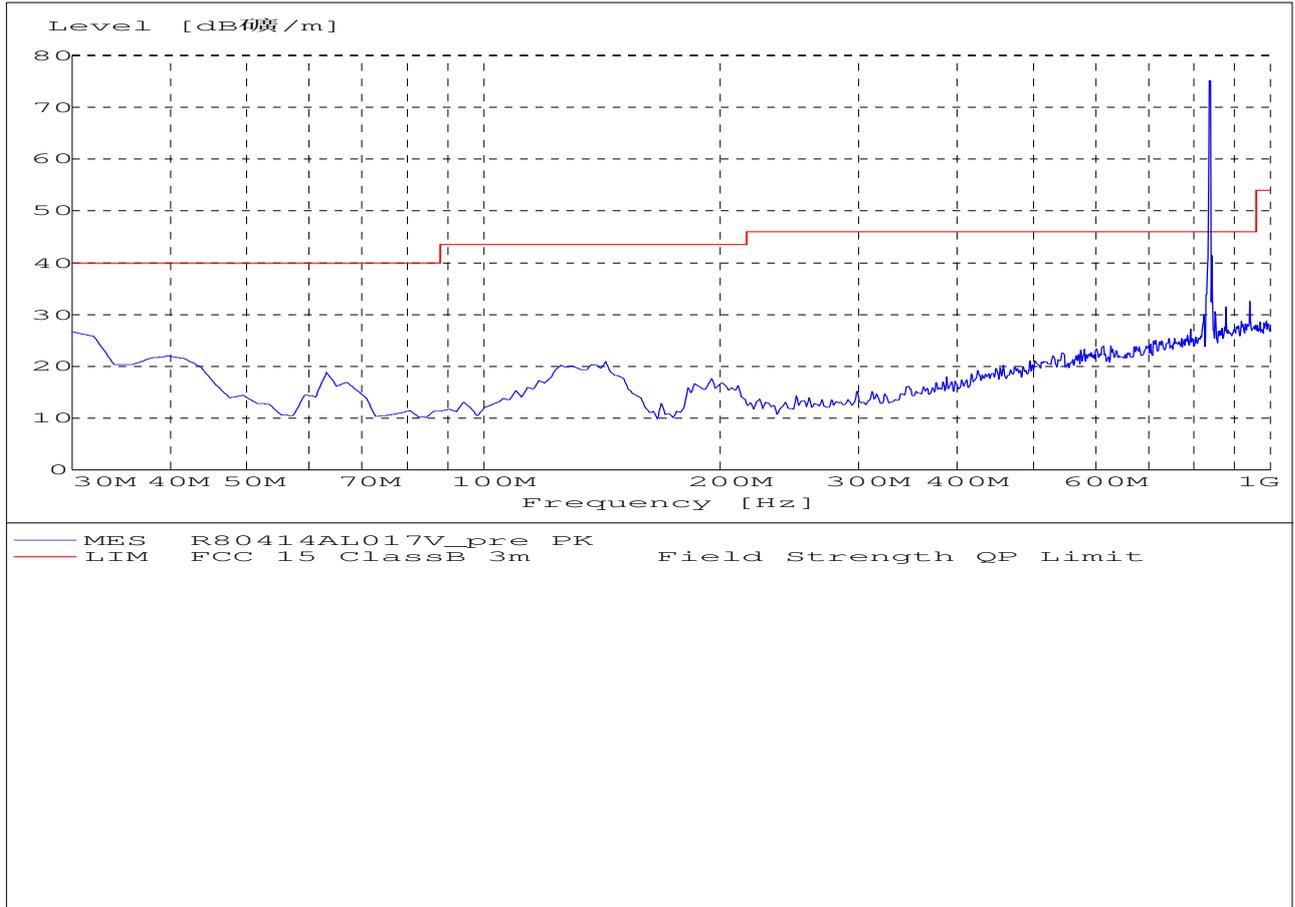
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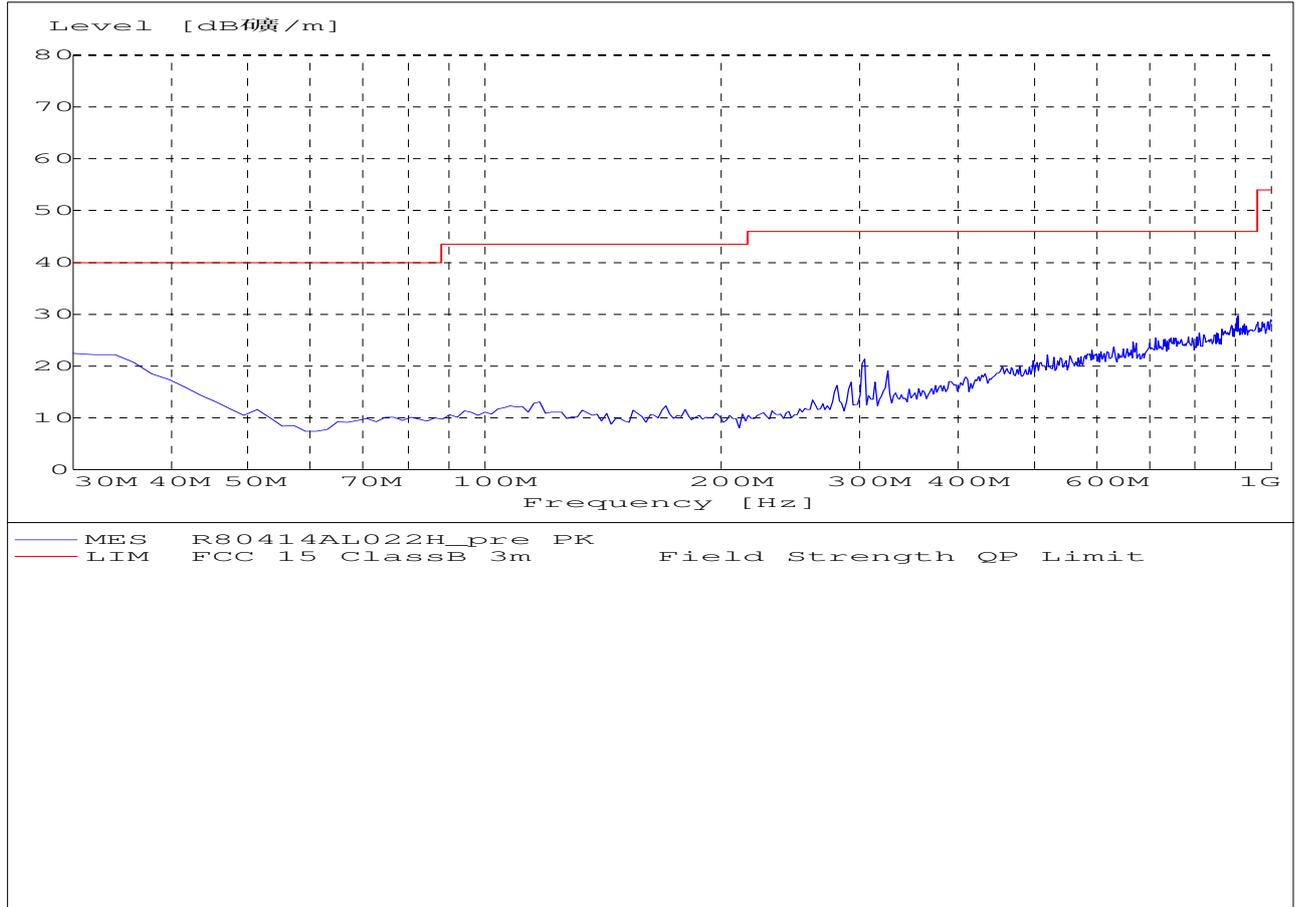
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PCS 1900 idle mode: (connected with T50002684AGAA power adapter of Tenpao)  
Horizontal:



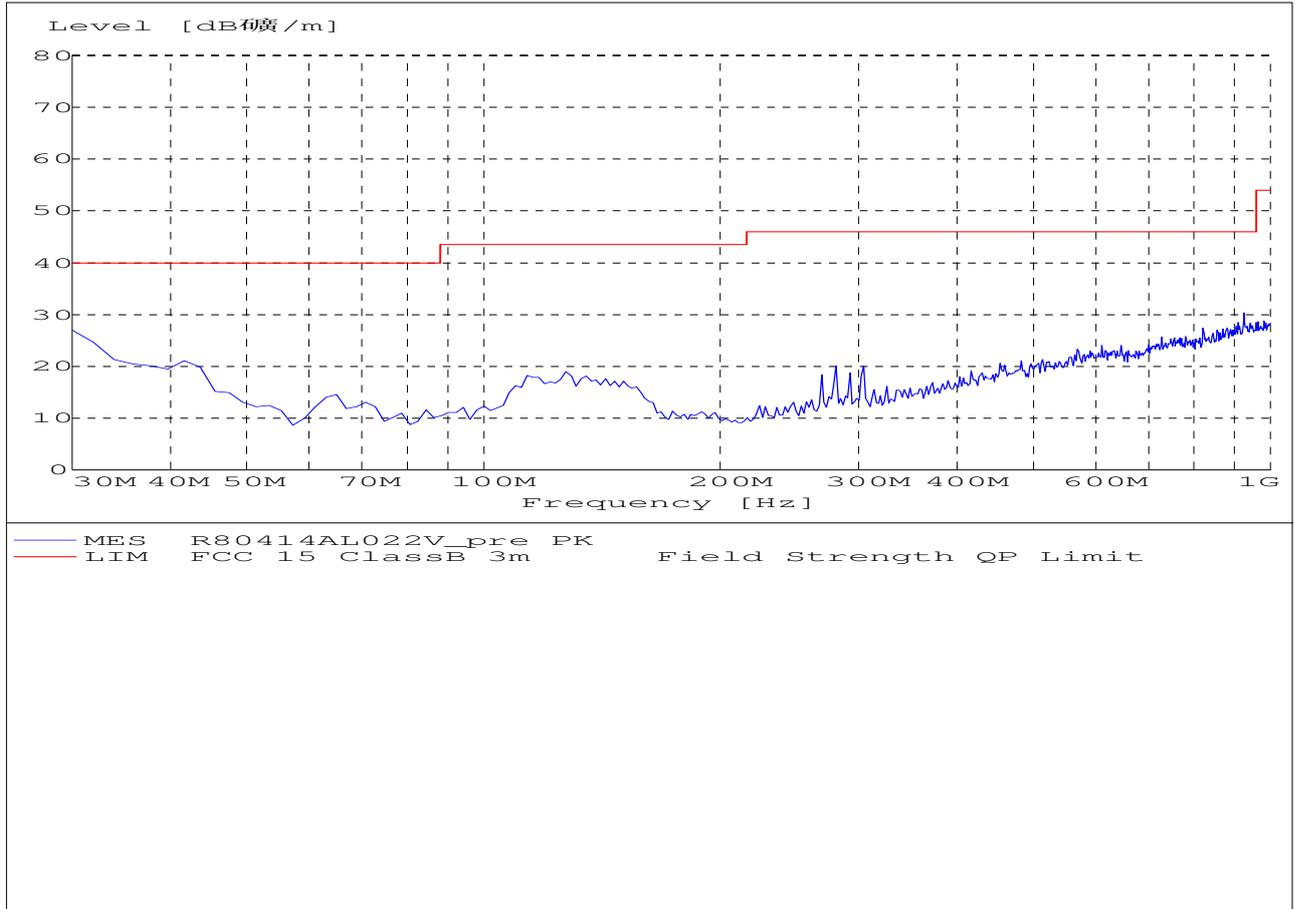
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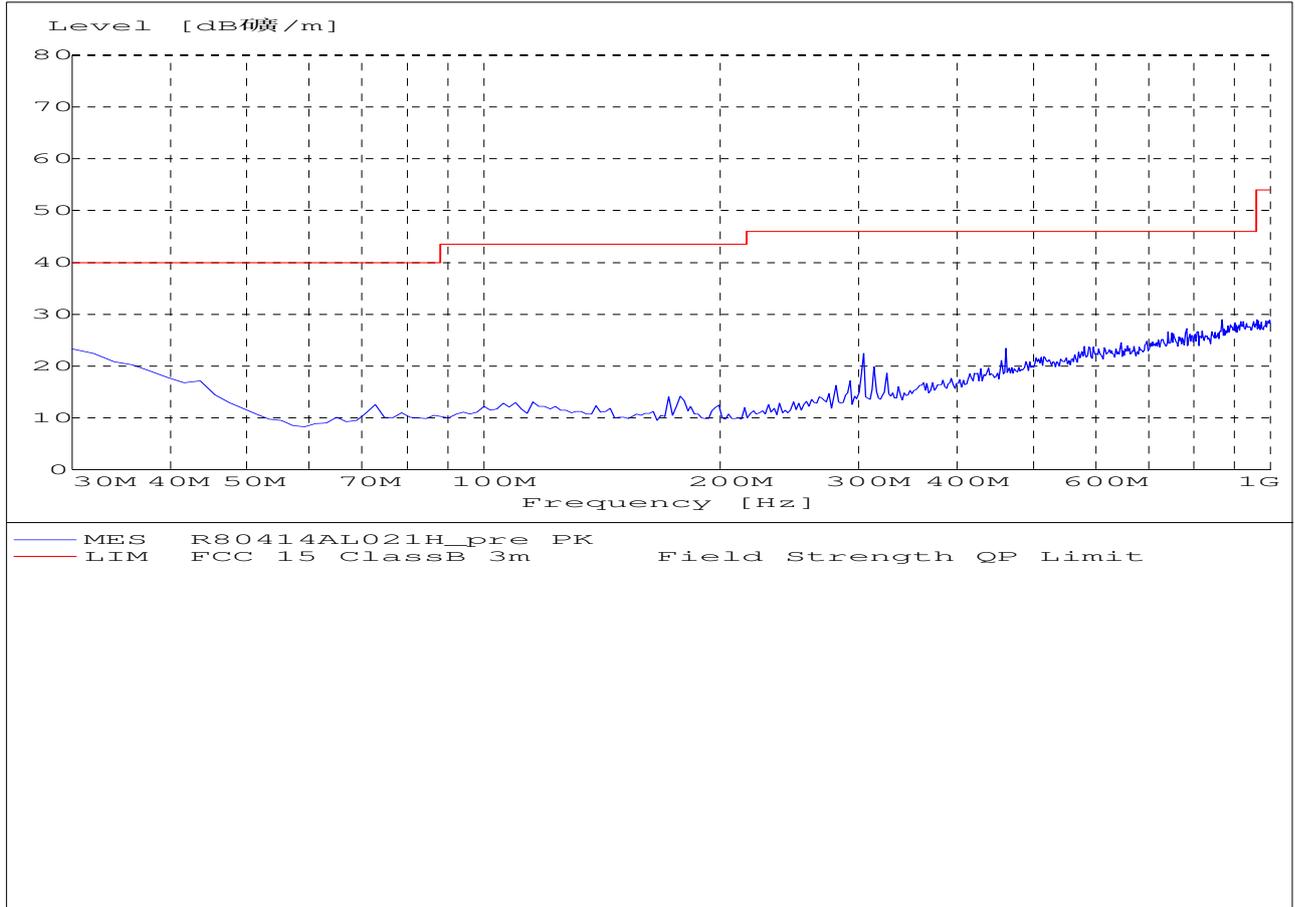
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PCS 1900 communication mode: (connected with T50002684AGAA power adapter of Tenpao)  
Horizontal:



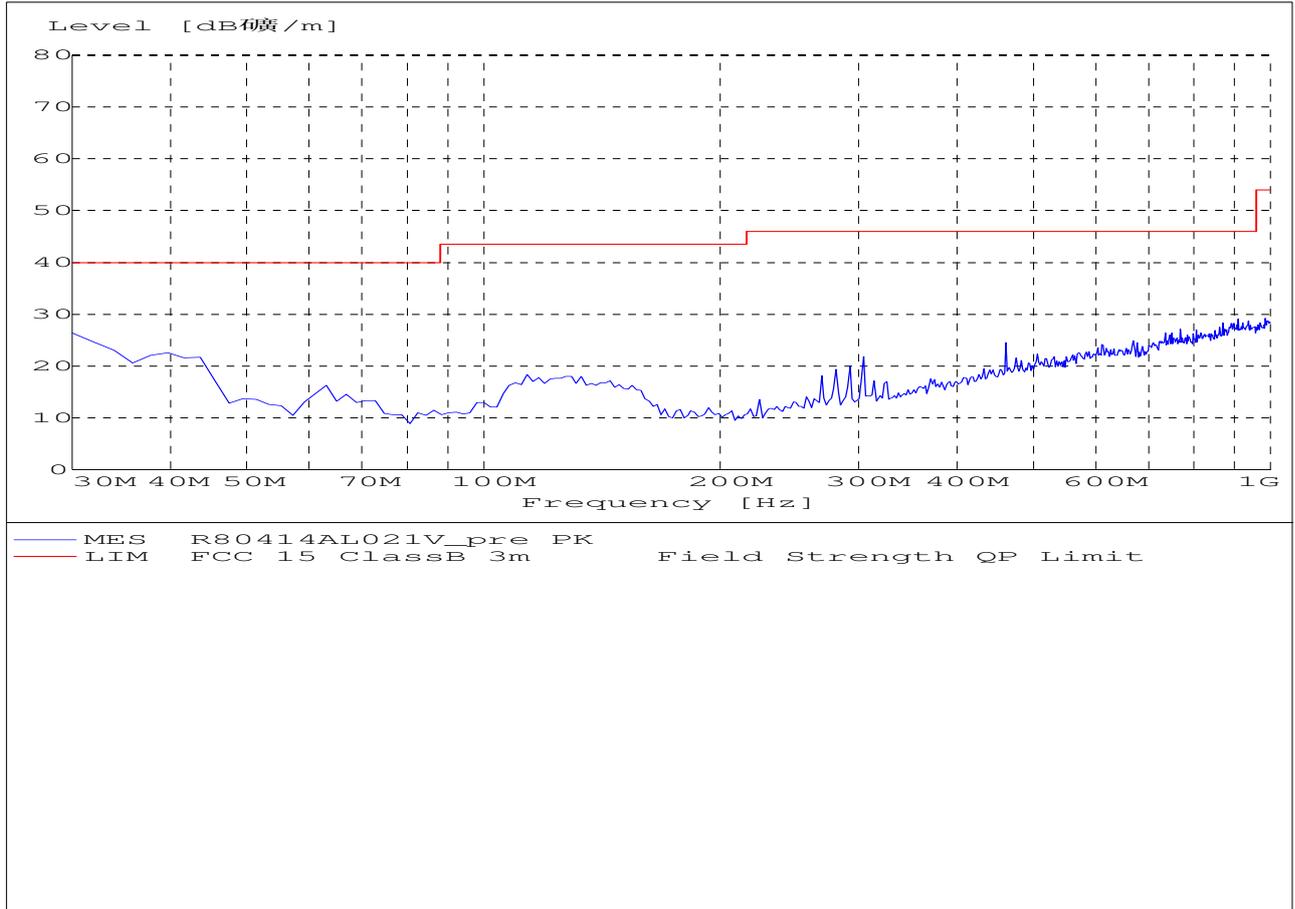
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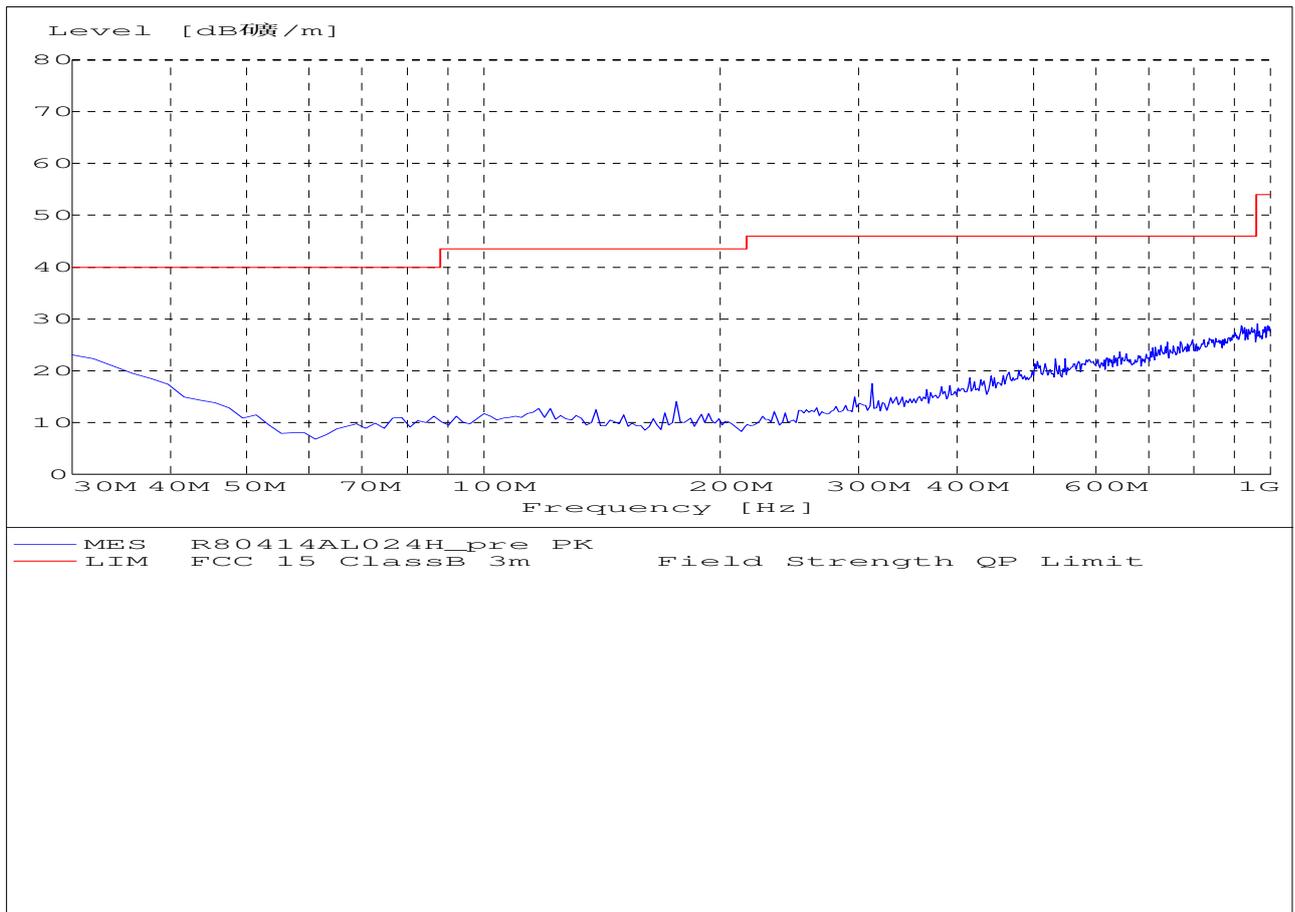
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PCS 1900 Idle mode: (connected with T50002684AGAB power adapter of SCUD)  
Horizontal:



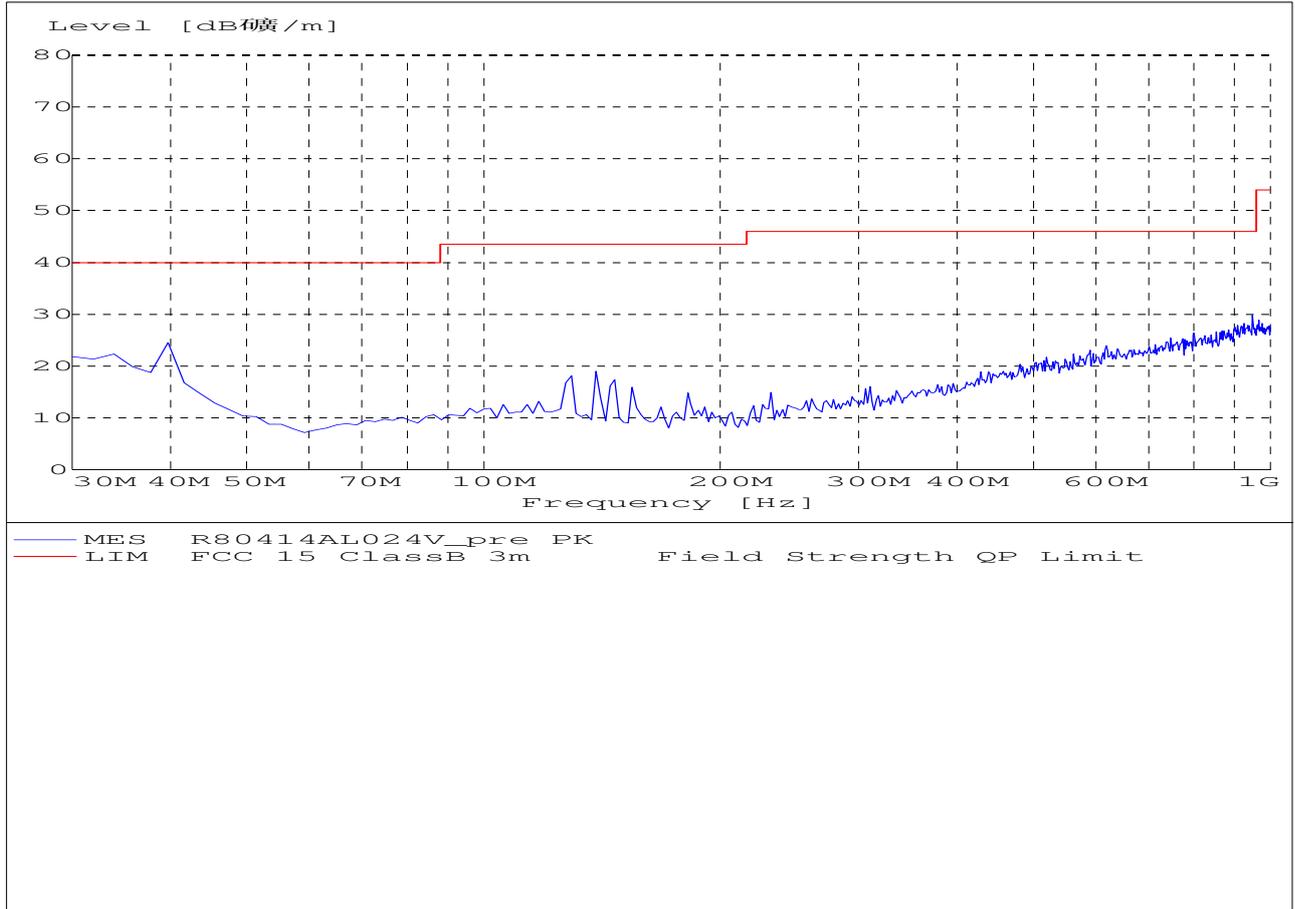
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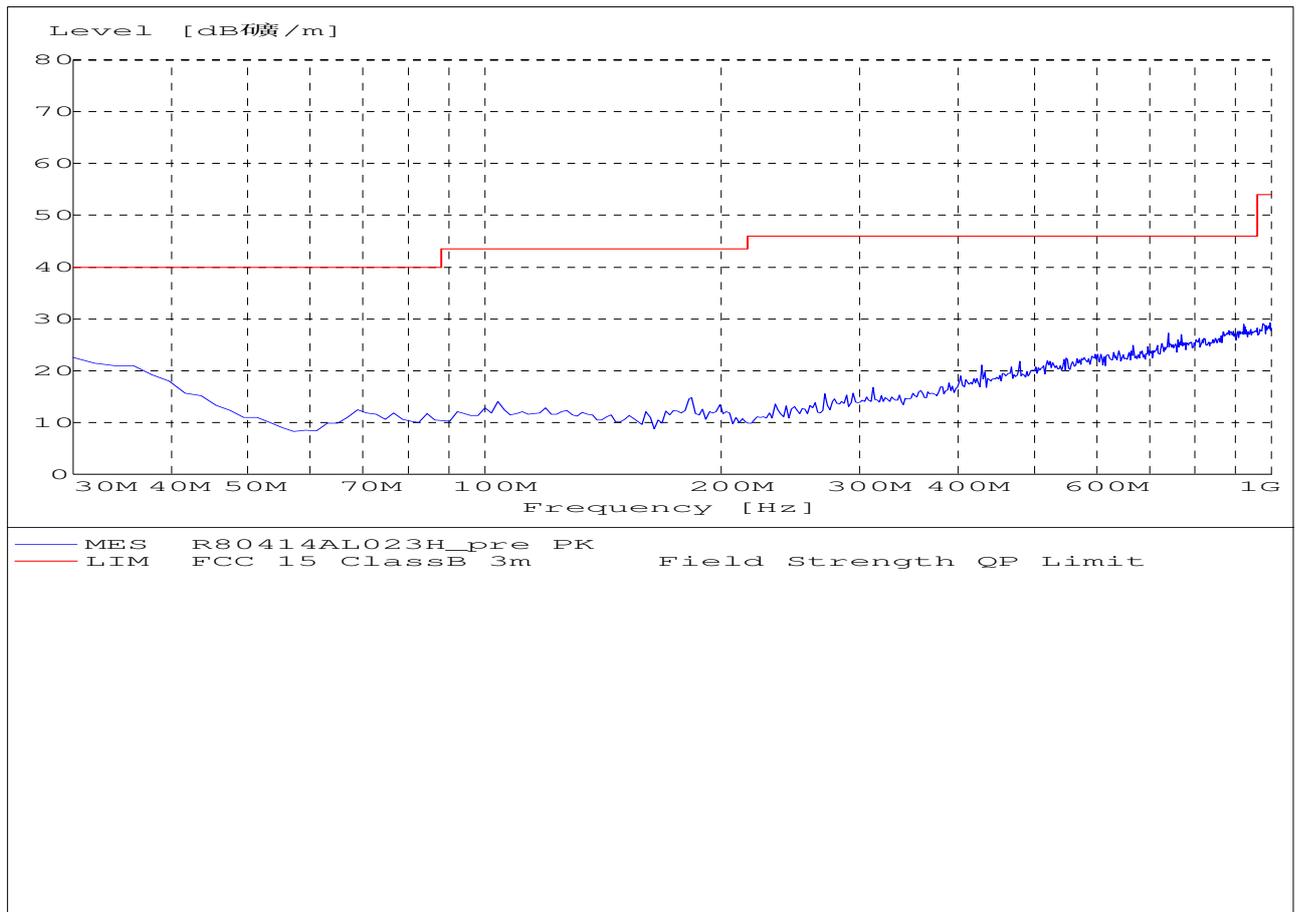
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PCS 1900 communication mode: (connected with T50002684AGAB power adapter of SCUD)  
Horizontal:



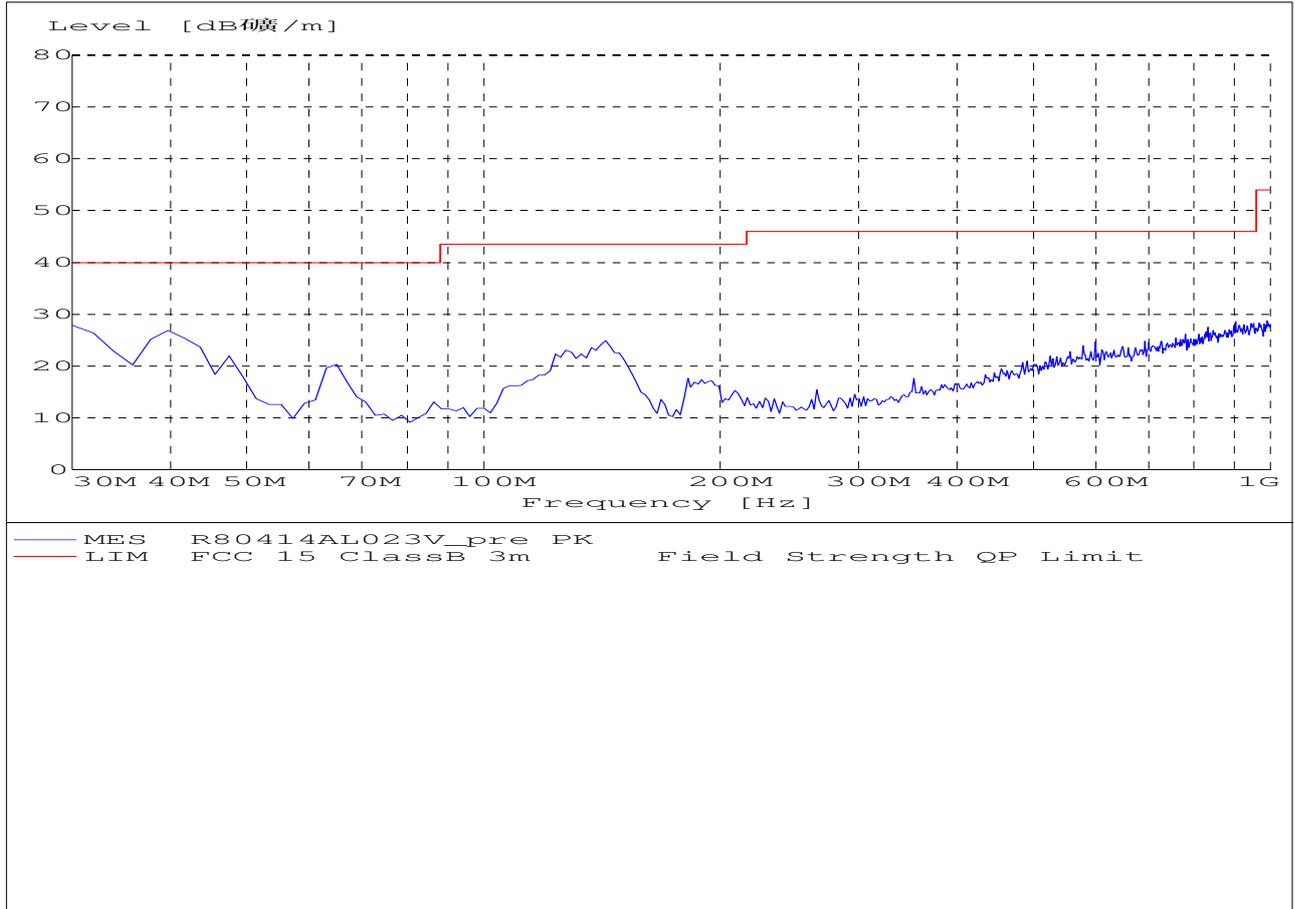
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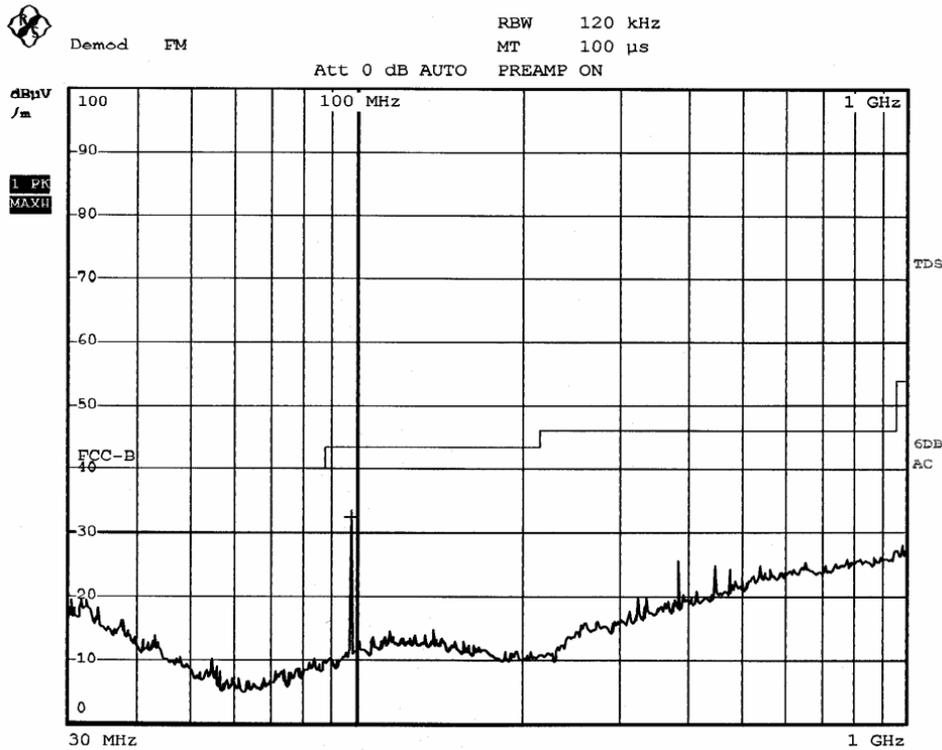
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FM Mode:  
Horizontal:



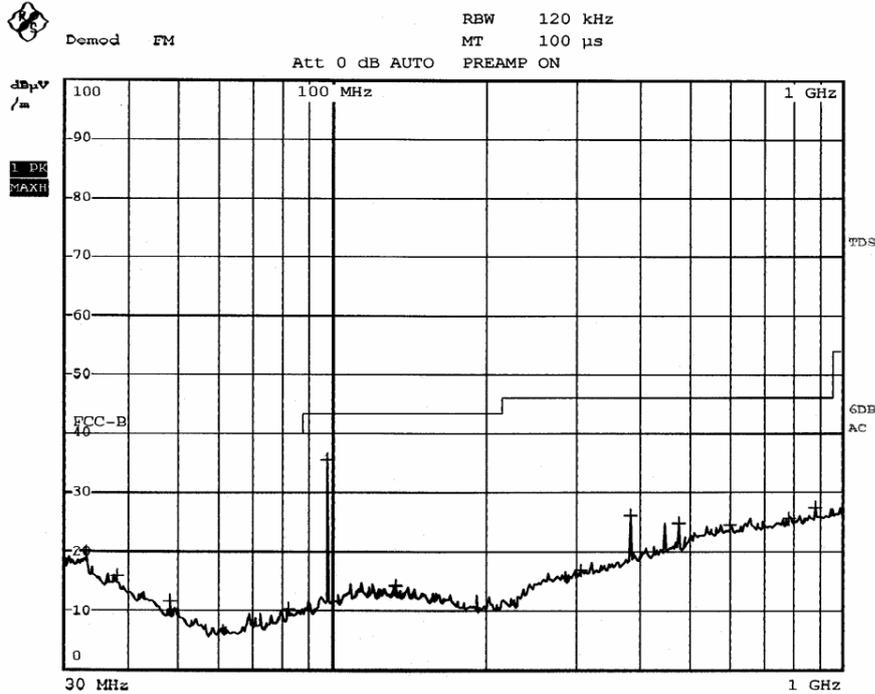
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Vertical:



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## 6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15 Subpart B
Test Method:	ANSI C63.4
Test Date:	April 18, 2008 to April 25, 2008
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: 23.0°C Humidity: 47%RH Atmospheric Pressure: 1011mbar

EUT Operation: EUT allocated with adaptor in GSM850/PCS1900.

### 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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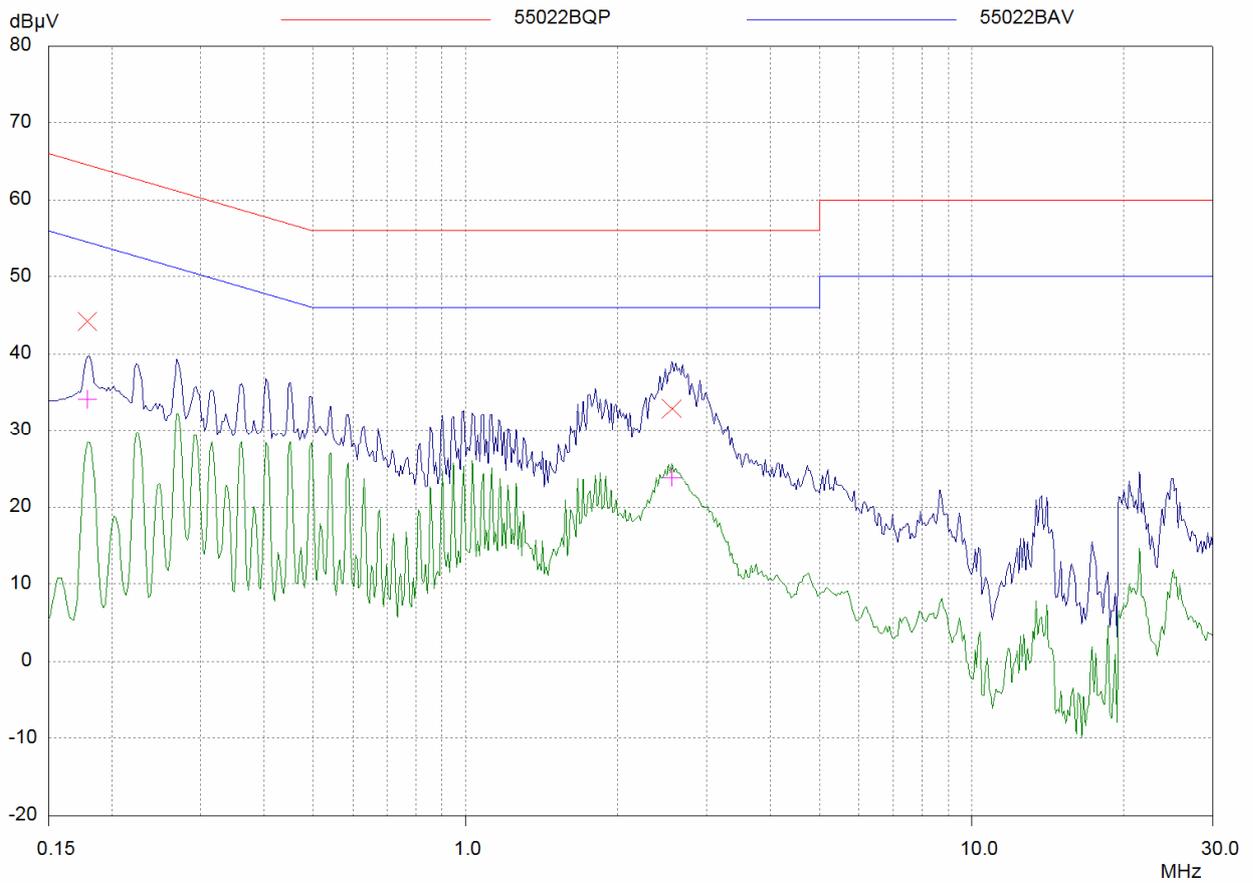
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GSM 850 idle mode: (connected with T50002684AGAA power adapter of Tenpao)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.17874	44.24	64.54	20.30
2.55882	32.89	56.00	23.11

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.17874	34.05	54.54	20.49
2.55882	23.83	46.00	22.17

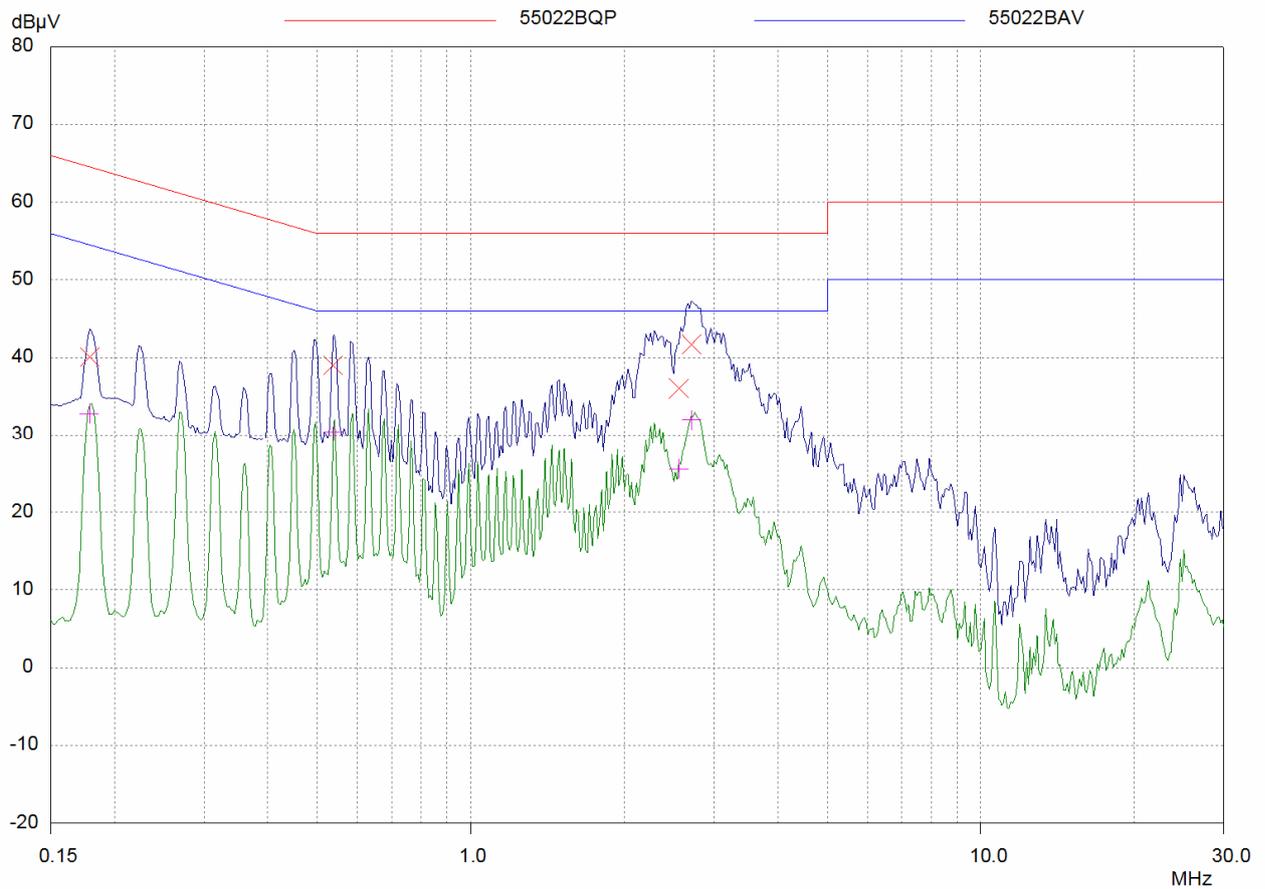
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N Line:



**Final Measurement Results**

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Defa dB
0.17874	40.06	64.54	24.48
0.53675	38.95	58.00	17.05
2.55882	36.05	56.00	19.95
2.7056	41.68	56.00	14.32

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Defa dB
0.17874	32.75	54.54	21.79
0.53675	30.38	46.00	15.62
2.55882	25.53	46.00	20.47
2.7056	31.96	46.00	14.04

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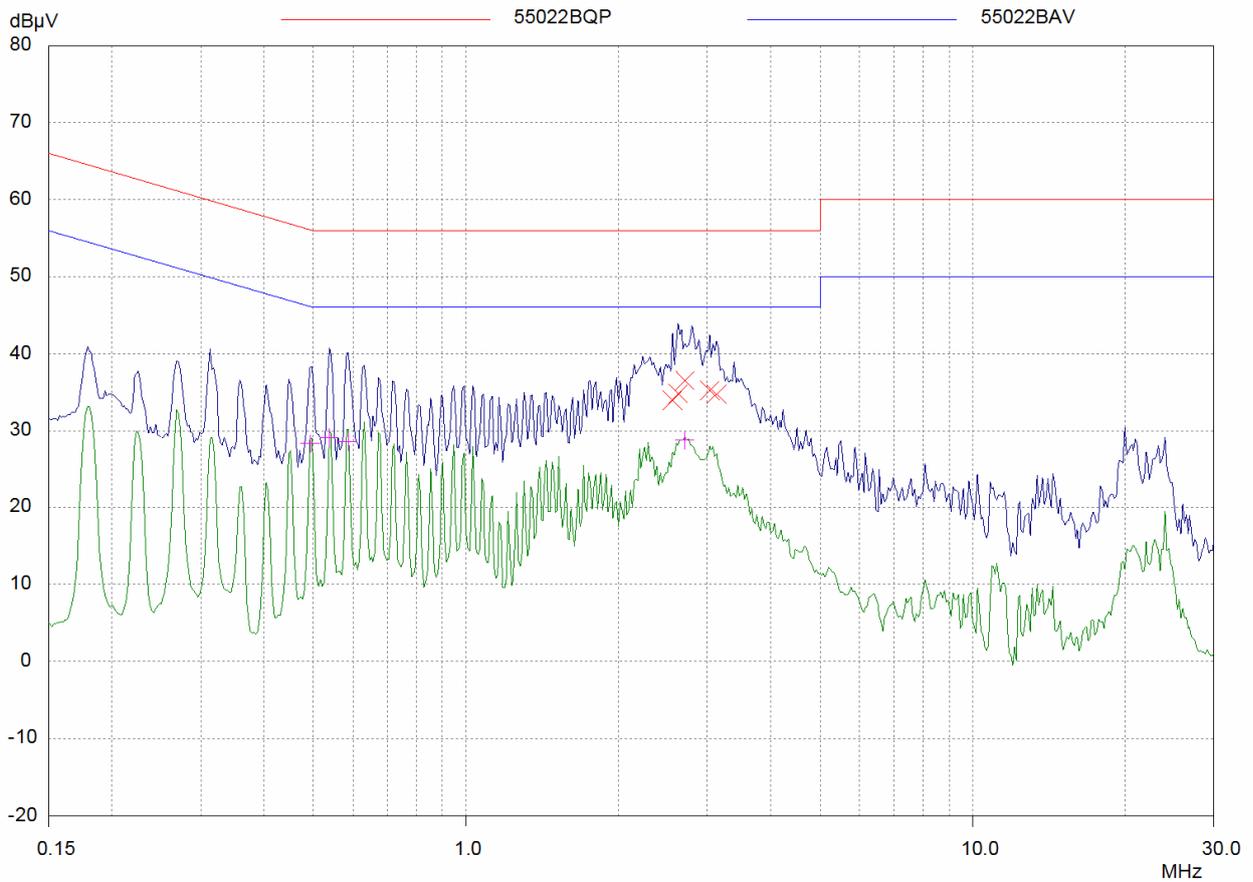
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GSM 850 communication mode: (connected with T50002684AGAA power adapter of Tenpao)

L Line:



**Final Measurement Results**

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.55882	33.68	56.00	22.02
2.62073	34.79	56.00	21.21
2.7056	36.52	56.00	19.48
3.0246	35.18	56.00	20.82
3.12287	34.70	56.00	21.24

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.49171	28.22	46.14	17.92
0.53875	29.01	46.00	16.99
0.58592	28.40	46.00	17.60
2.7056	28.66	46.00	17.34

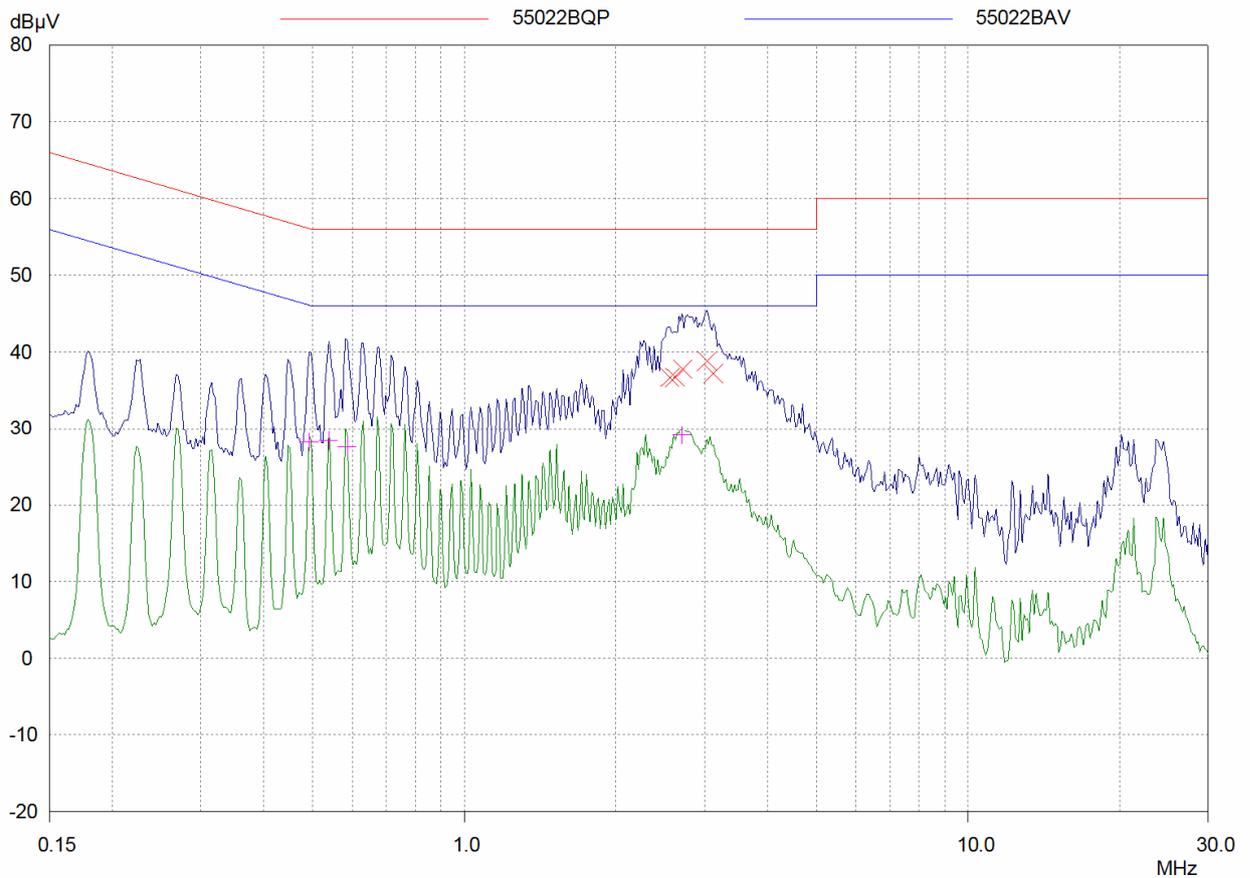
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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.55882	36.71	56.00	19.29
2.62073	36.72	56.00	19.28
2.7058	37.82	56.00	18.18
3.0249	38.88	56.00	17.14
3.12287	37.23	56.00	18.77

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.49171	28.17	46.14	17.97
0.53675	26.36	46.00	17.64
0.58592	27.58	46.00	18.42
2.7058	29.12	46.00	16.88

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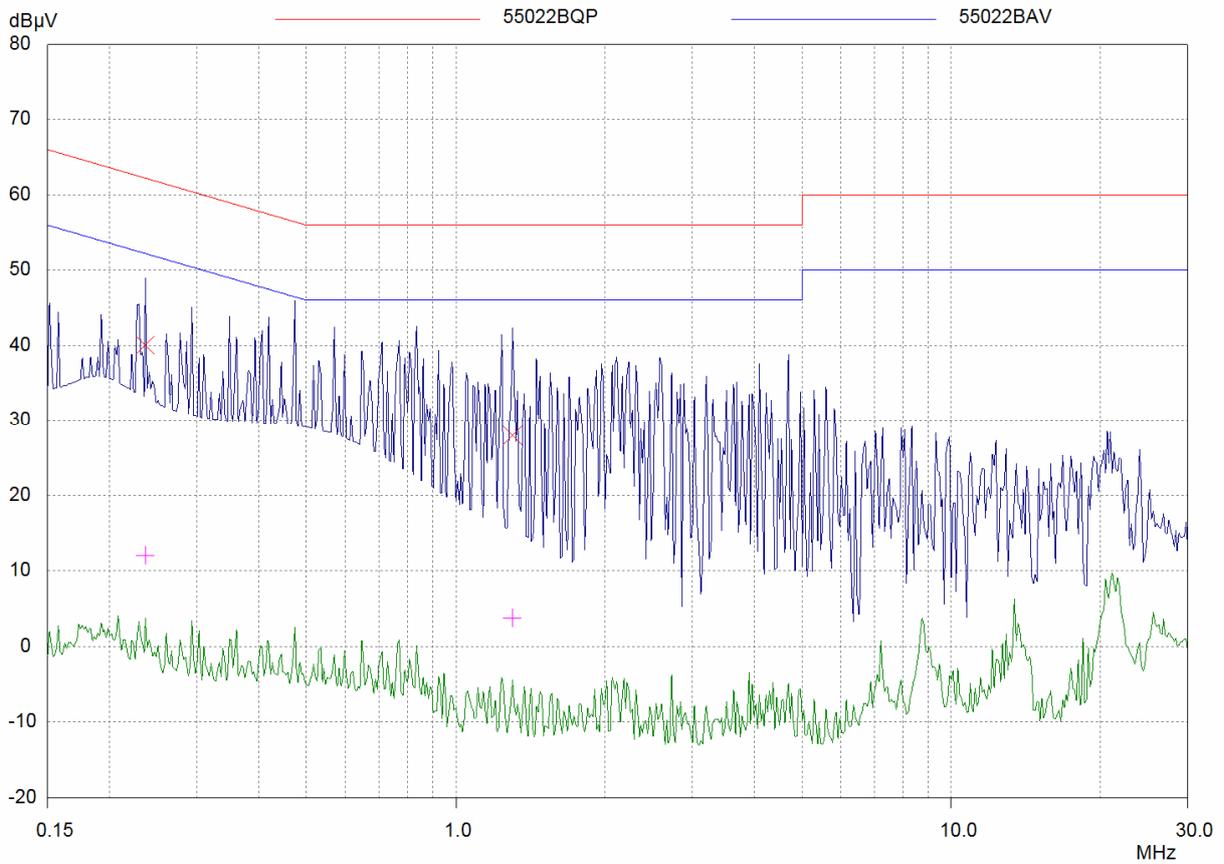
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GSM 850 idle mode: (connected with T50002684AGAB power adapter of SCUD)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.23623	40.00	62.23	22.23
1.29985	27.91	56.00	28.09

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.23623	12.06	52.23	40.17
1.29985	3.71	46.00	42.29

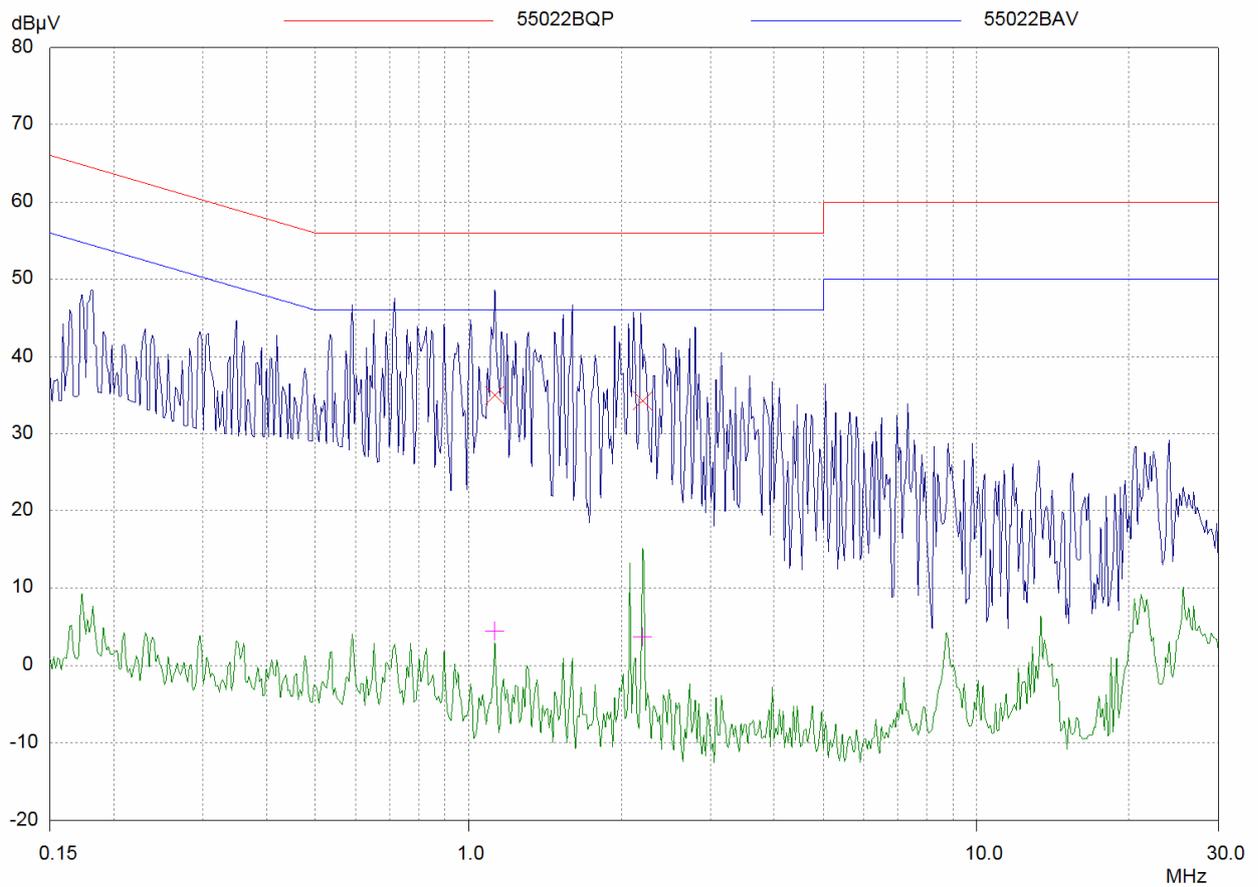
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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
1.12617	34.98	56.00	21.02
2.19933	34.29	56.00	21.71

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
1.12617	4.43	46.00	41.57
2.19933	3.68	46.00	42.32

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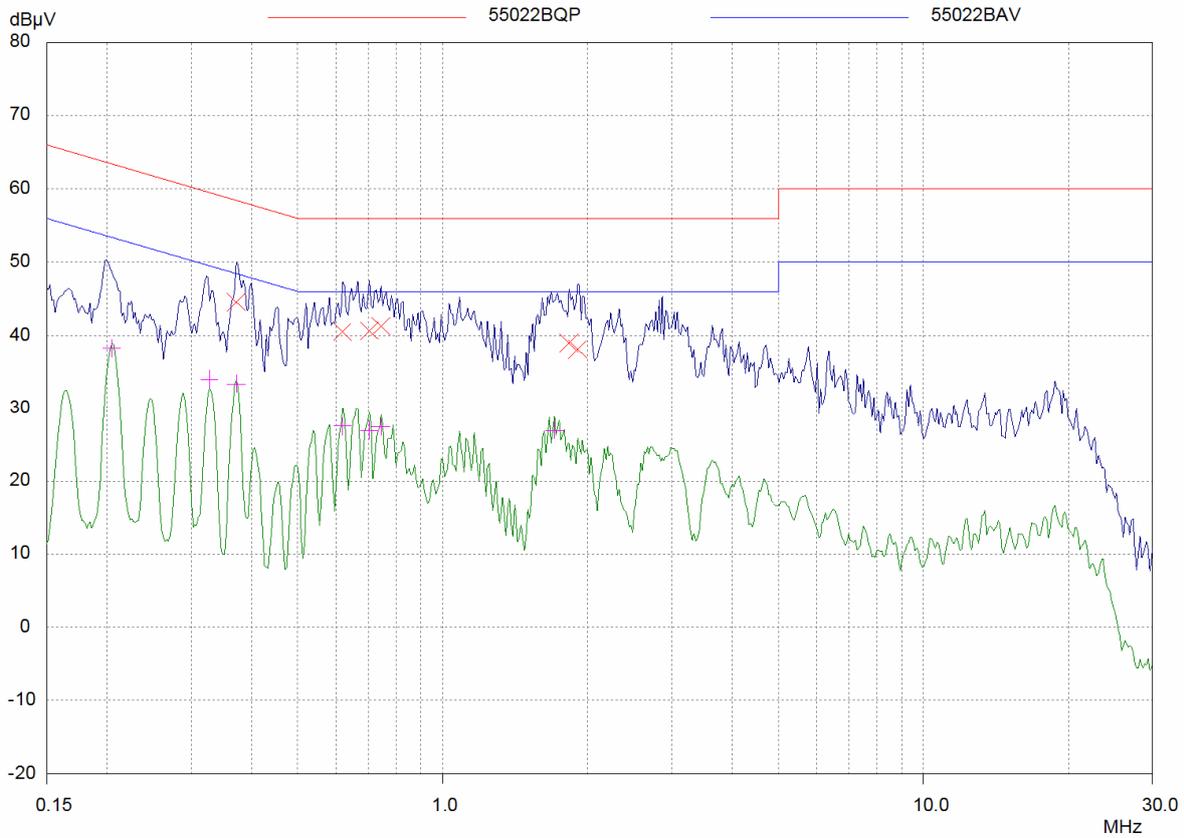
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GSM 850 communication mode: (connected with T50002684AGAB power adapter of SCUD)

L Line:



**Final Measurement Results**

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.37204	44.53	58.46	13.93
0.51853	40.45	56.00	15.55
0.70377	40.65	56.00	15.35
0.74414	41.28	56.00	14.72
1.83104	38.93	56.00	17.07
1.90546	38.12	56.00	17.88

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.20466	38.25	53.42	15.17
0.3275	34.61	49.51	14.90
0.37204	33.40	48.46	15.06
0.51853	27.47	46.00	18.53
0.70377	26.95	46.00	19.05
0.74414	27.39	46.00	18.61
1.70432	26.96	46.00	19.02

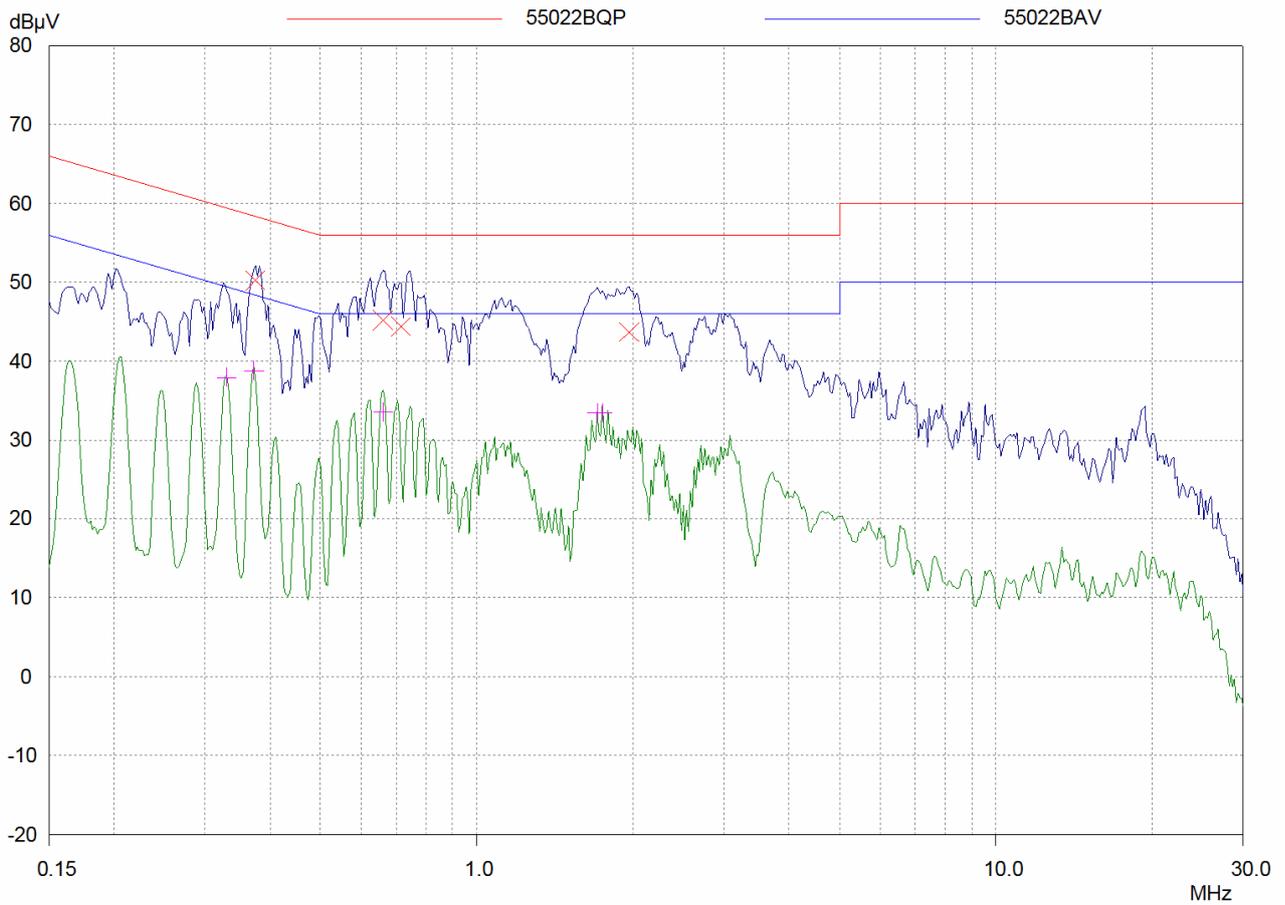
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N Line :



**Final Measurement Results**

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.37501	50.23	58.39	8.16
0.66031	45.21	56.00	10.79
0.71508	44.40	58.00	11.60
1.98717	43.71	58.00	12.29

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.33012	37.96	49.45	11.49
0.37204	38.83	48.46	9.63
0.66031	33.48	46.00	12.51
1.70432	33.45	46.00	12.55
1.74556	33.41	46.00	12.59

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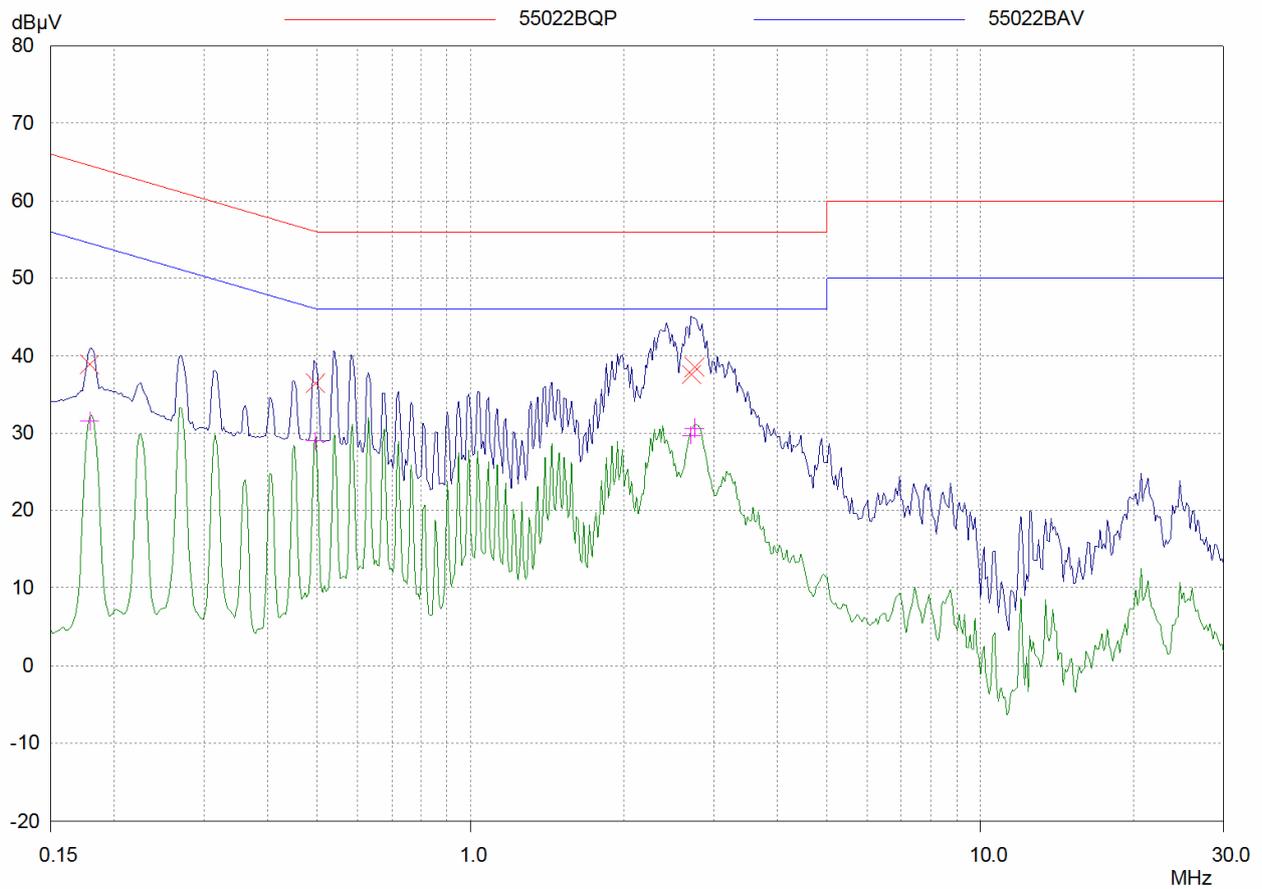
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PCS 1900 idle mode: (connected with T50002684AGAA power adapter of Tenpao)

L Line:



**Final Measurement Results**

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.17874	38.88	64.54	25.66
0.48564	36.43	56.07	19.64
2.7056	37.56	56.00	18.44
2.74908	38.48	56.00	17.54

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.17874	31.54	54.54	23.00
0.48564	28.89	46.07	17.18
2.7056	29.66	46.00	16.32
2.74908	30.64	46.00	15.36

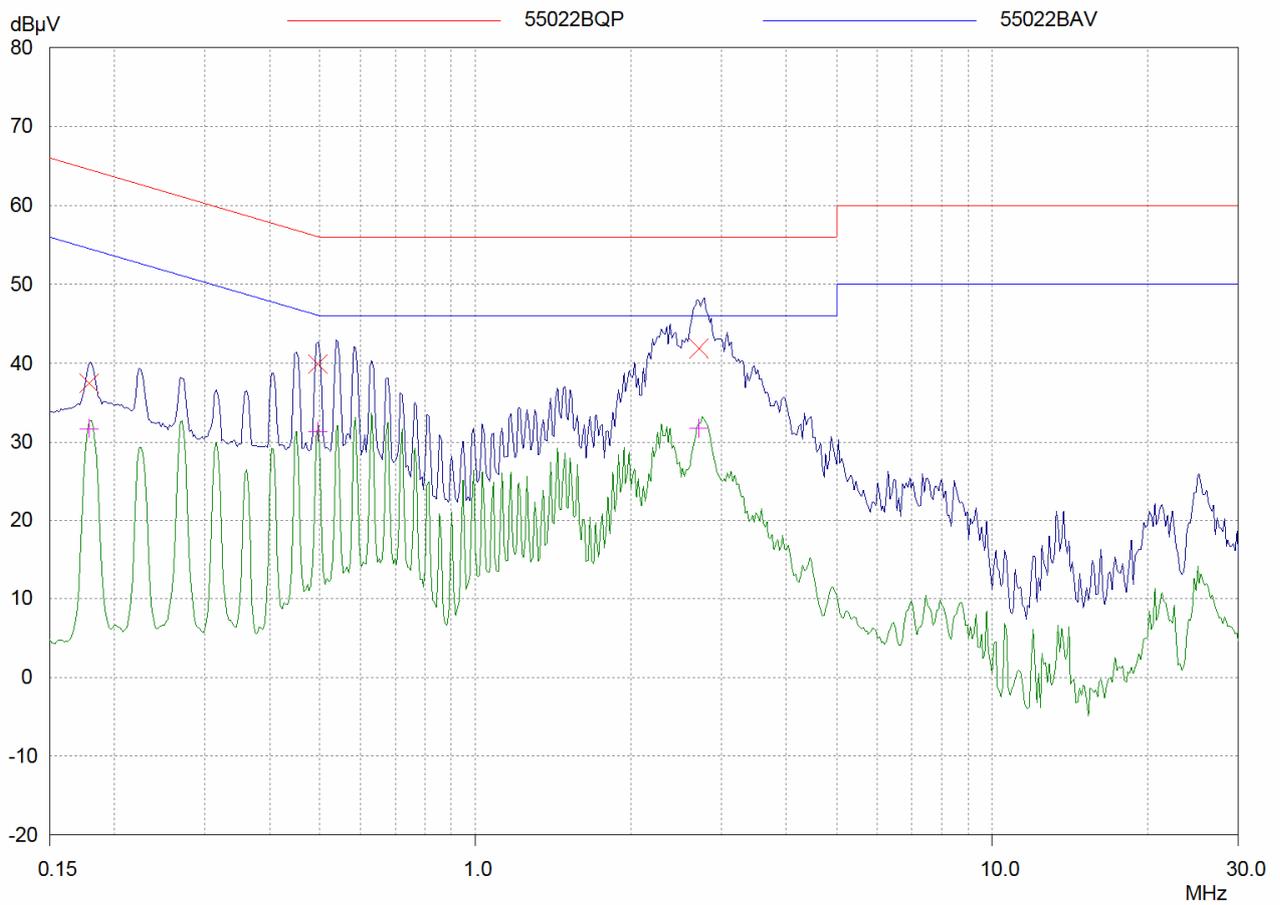
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N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.17874	37.39	64.54	27.15
0.49564	39.82	56.07	16.25
2.7056	41.84	56.00	14.16

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.17874	31.69	54.54	22.85
0.49564	31.34	46.07	14.73
2.7056	31.76	46.00	14.24

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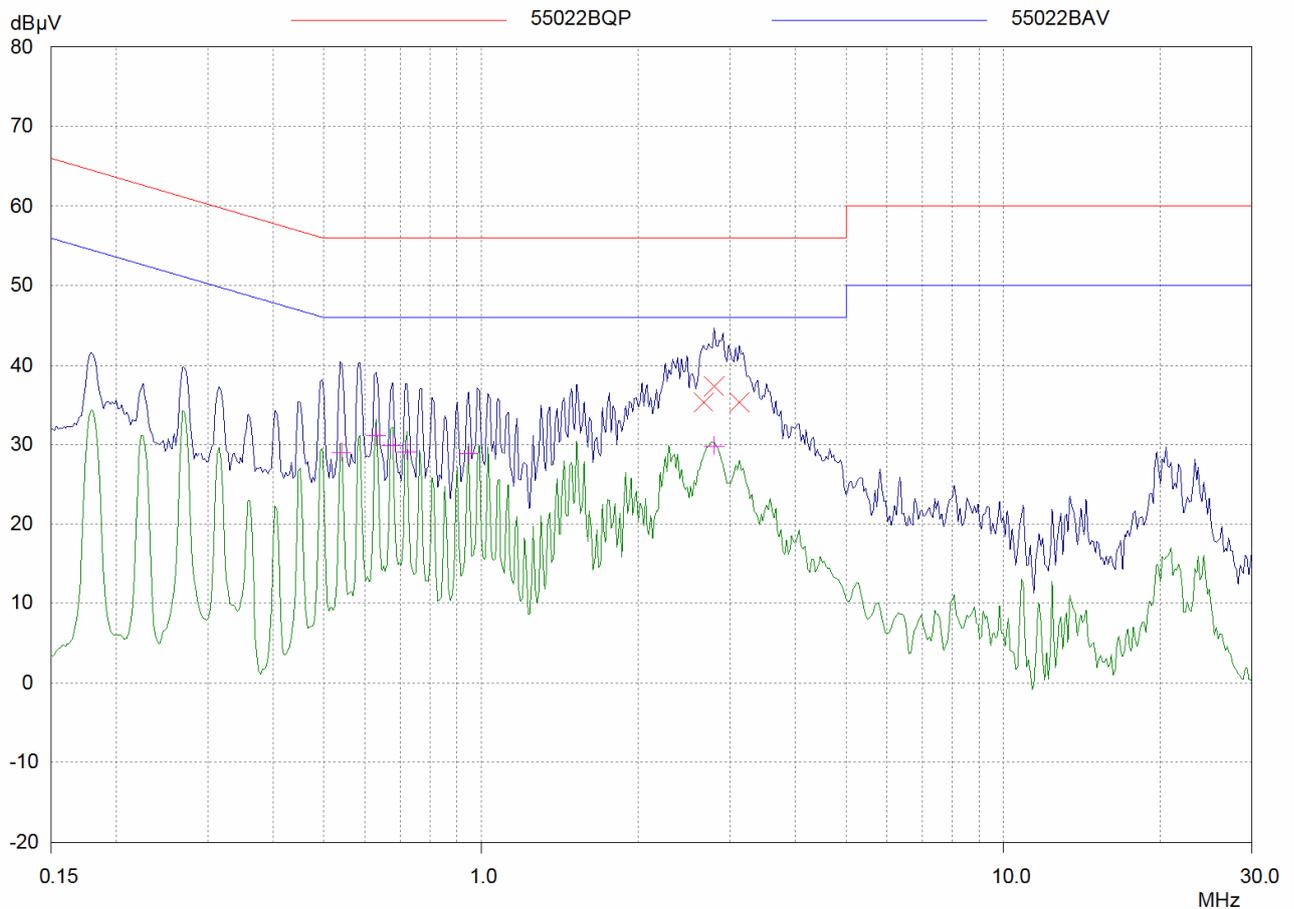
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PCS 1900 communication mode: (connected with T50002684AGAA power adapter of Tenpao)

L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.66282	35.40	56.00	20.60
2.79322	37.34	56.00	18.66
3.12287	35.32	56.00	20.68

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.54104	29.01	46.00	16.99
0.62948	31.06	46.00	14.92
0.87628	29.93	46.00	16.07
0.7206	29.16	46.00	16.84
0.94509	28.80	46.00	17.20
2.79322	29.63	46.00	16.17

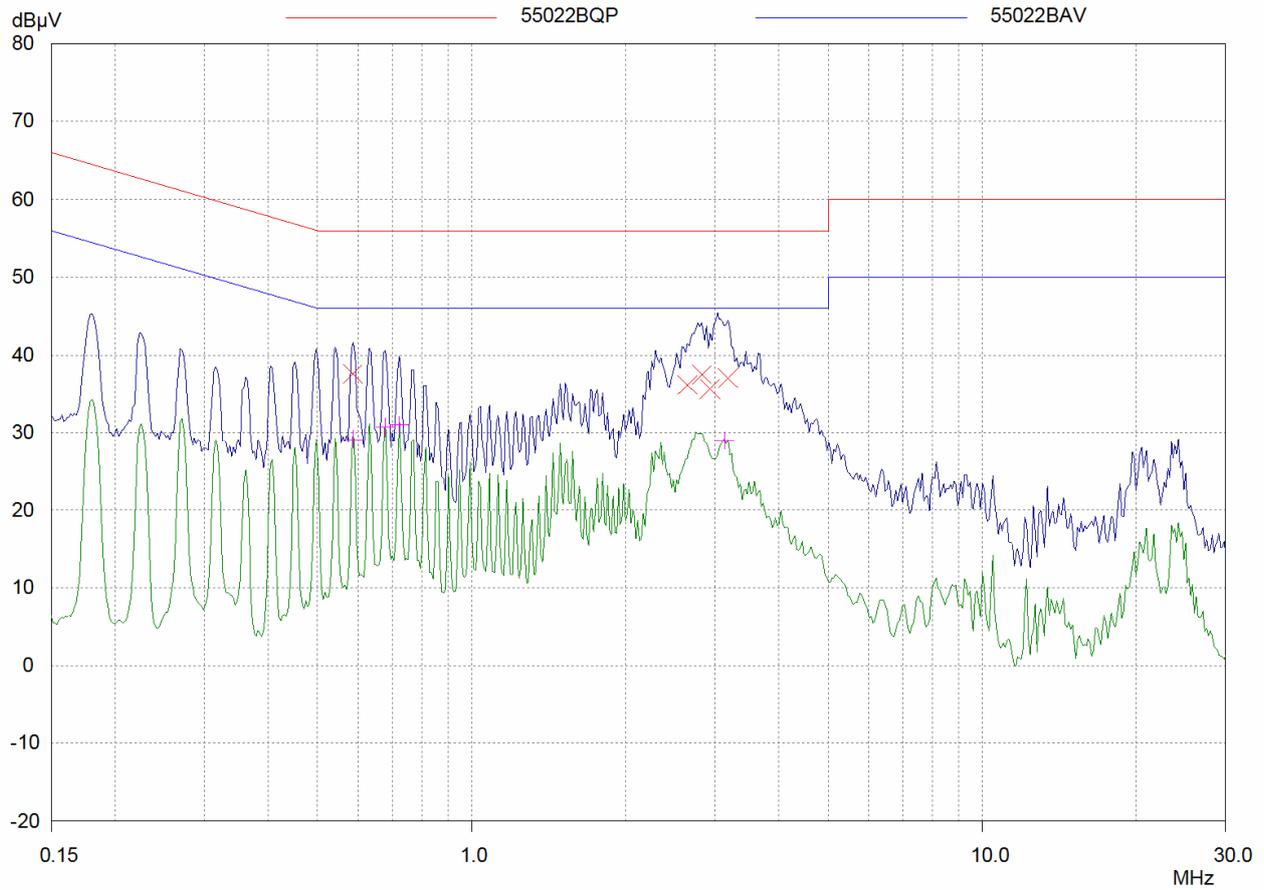
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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.58562	37.60	56.00	18.40
2.64169	38.18	56.00	17.82
2.81557	37.46	56.00	18.54
2.93001	35.66	56.00	20.34
3.17303	37.02	56.00	18.98

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.58562	29.05	46.00	16.95
0.67628	30.70	46.00	15.30
0.7208	30.99	46.00	15.01
3.12287	26.95	46.00	17.05

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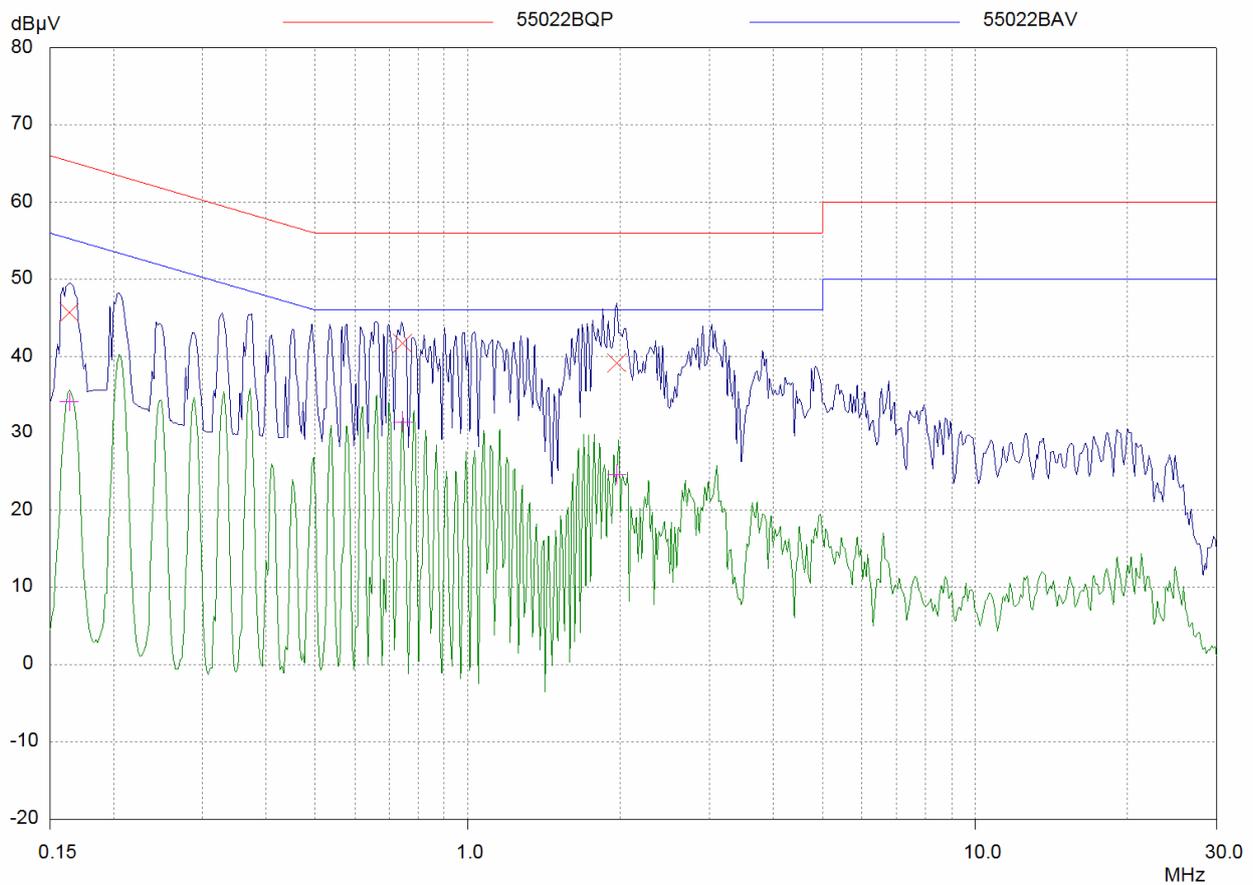
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PCS 1900 idle mode: (connected with T50002684AGAB power adapter of SCUD)

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.16374	45.62	65.27	19.65
0.74414	41.69	56.00	14.31
1.96717	39.12	56.00	16.88

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.16374	34.06	55.27	21.21
0.74414	31.41	46.00	14.59
1.96717	24.59	46.00	21.41

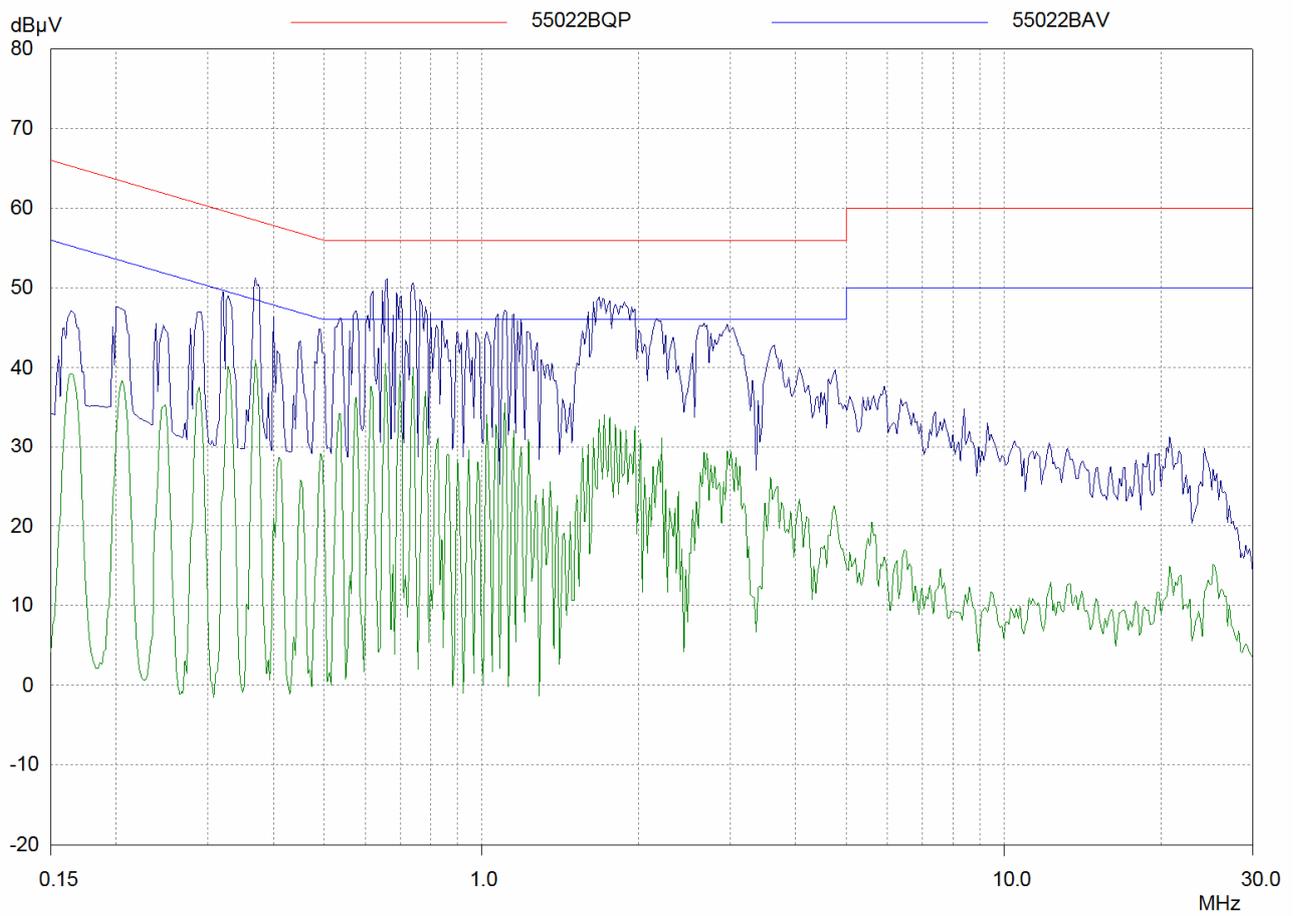
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N Line:



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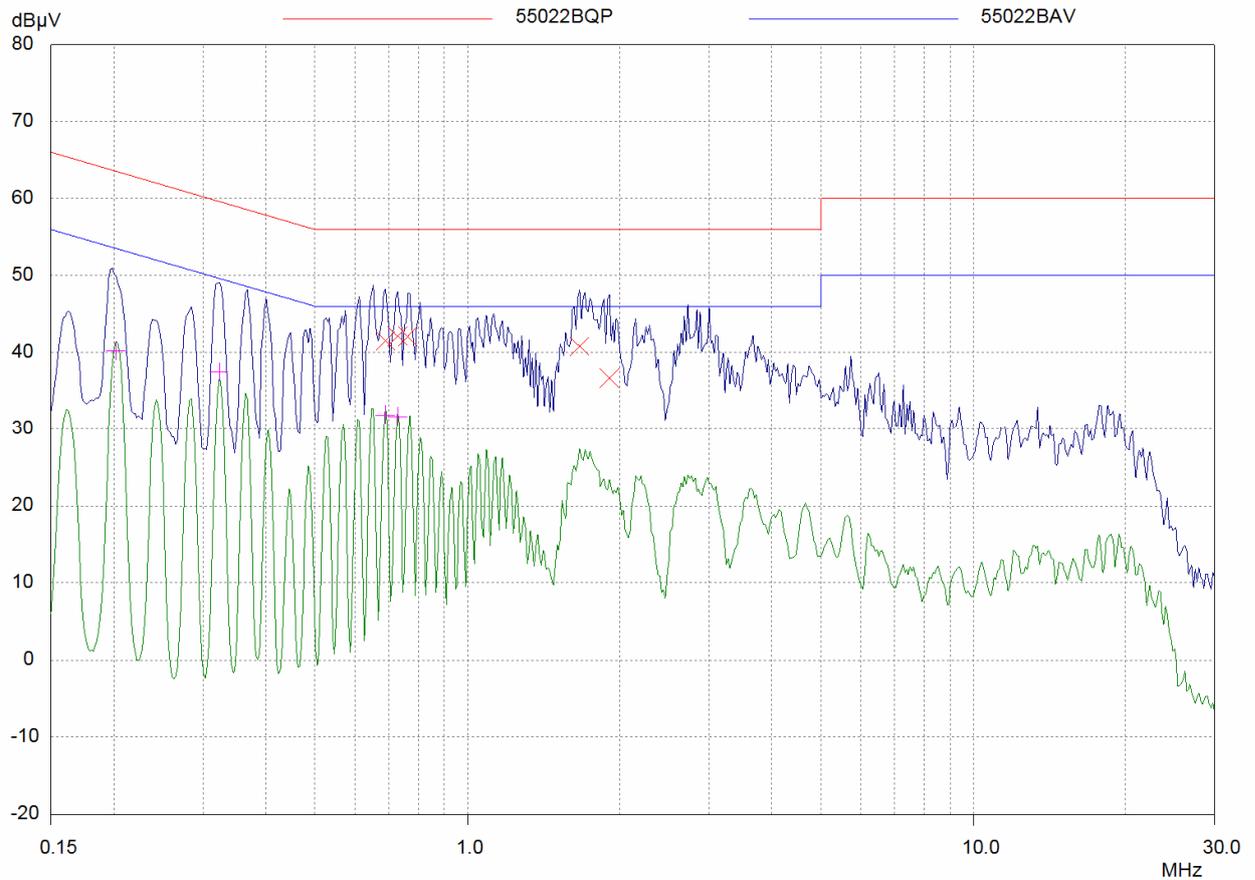
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PCS 1900 communication mode: (connected with T50002684AGAB power adapter of SCUD)

L Line:



### Final Measurement Results

Frequency MHz	QP_Level dBµV	QP_Limit dBµV	QP_Delta dB
0.88715	41.47	56.00	14.53
0.72856	42.09	56.00	13.91
0.78214	42.08	56.00	13.92
1.89407	40.78	56.00	15.24
1.90546	36.66	56.00	19.34

Frequency MHz	AV_Level dBµV	AV_Limit dBµV	AV_Delta dB
0.20143	40.23	53.55	13.32
0.32233	37.43	49.65	12.22
0.68715	31.83	46.00	14.17
0.72856	31.89	46.00	14.31

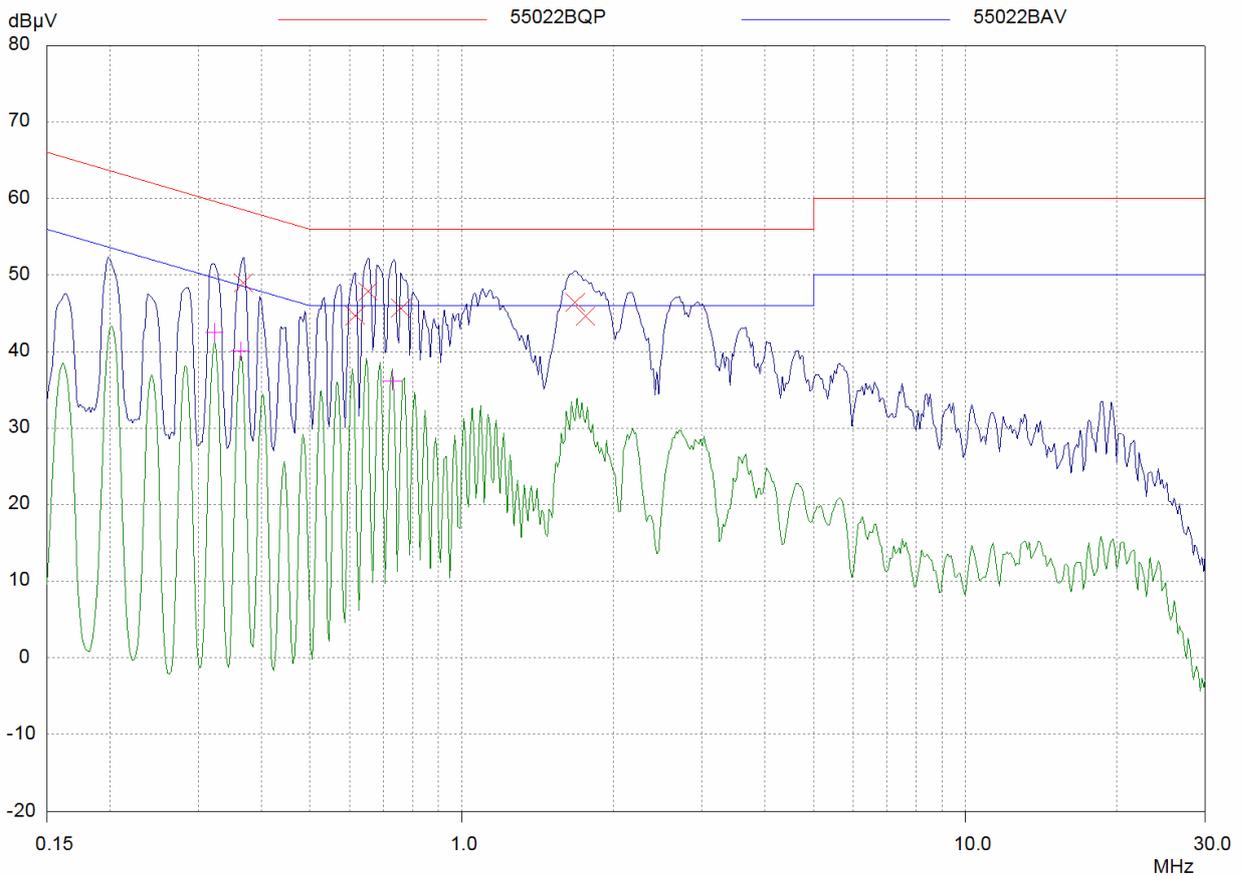
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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.38908	48.95	58.52	9.57
0.61461	44.70	56.00	11.30
0.64987	47.85	58.00	8.15
0.7581	45.88	58.00	10.34
1.87738	48.45	58.00	9.55
1.75852	44.53	56.00	11.37

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.32233	42.43	49.65	7.22
0.38325	40.03	48.85	8.82
0.72656	36.10	46.00	9.90

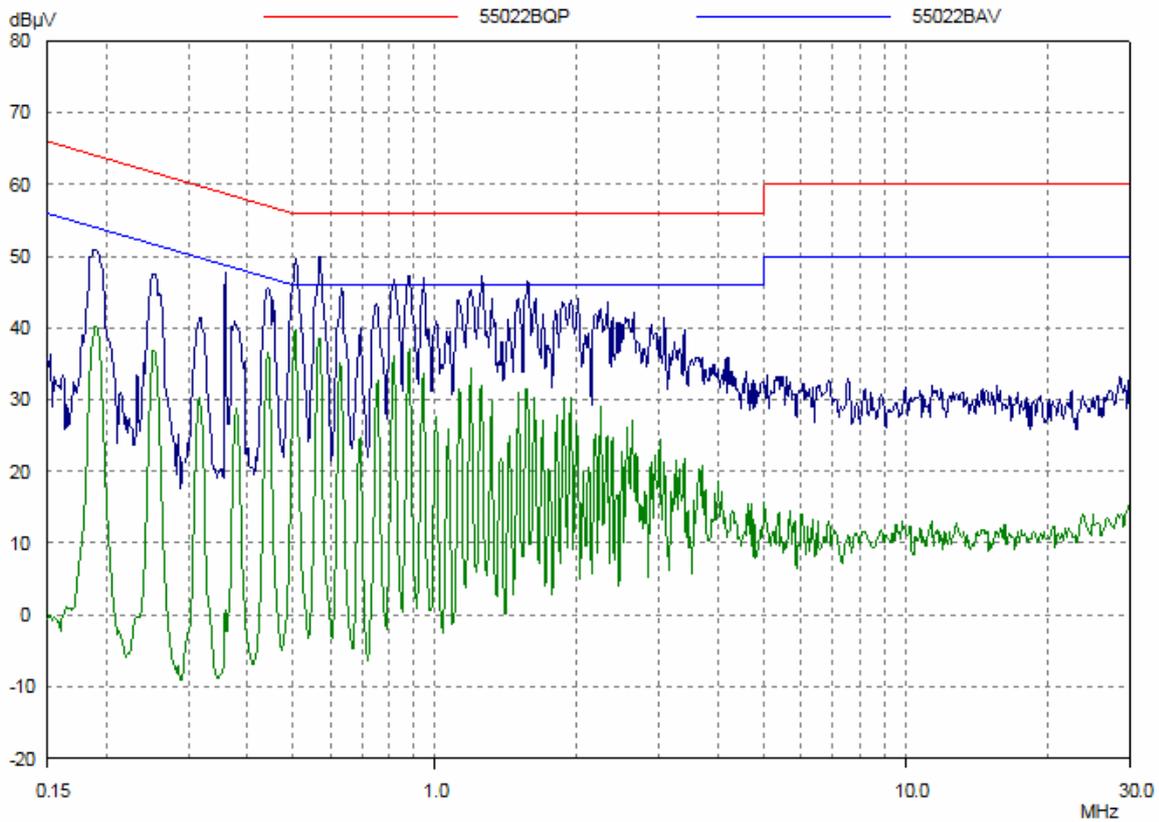
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FM Mode: (connected with T50002684AGAA power adapter of Tenpao)  
L Line:



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.

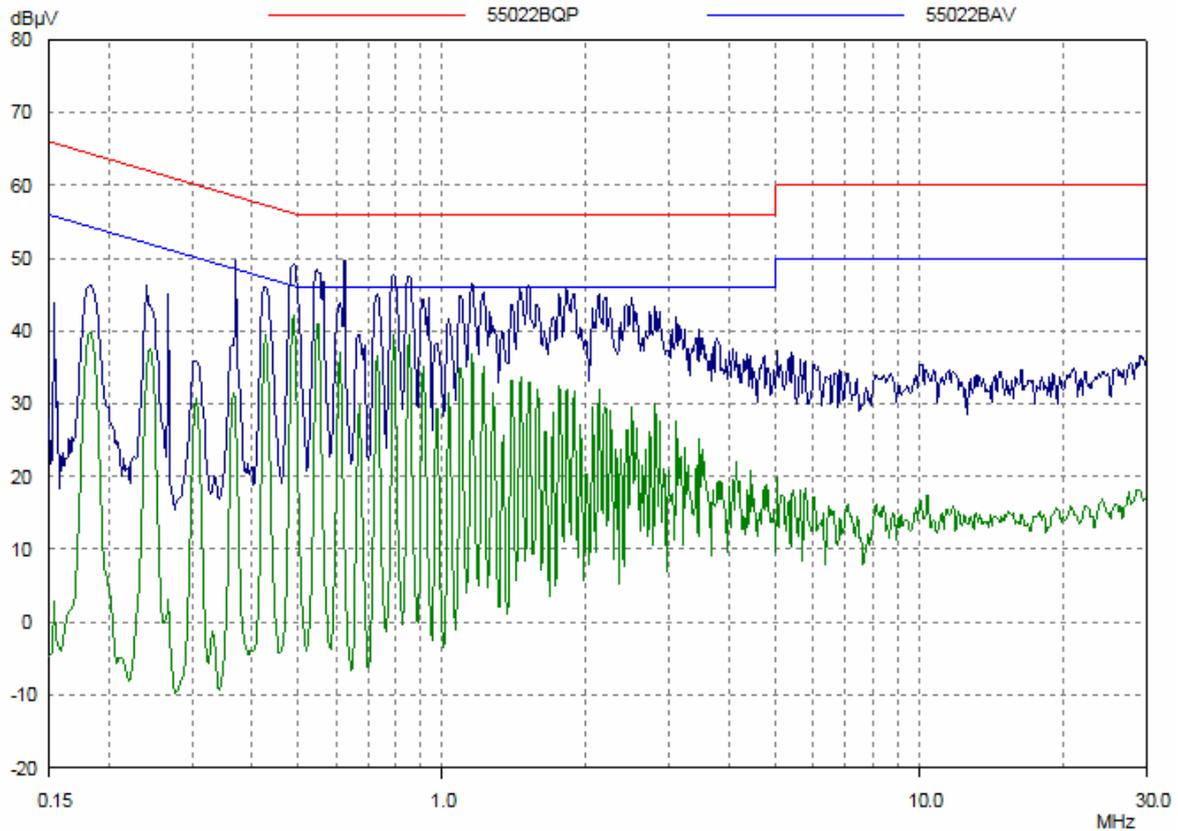
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## N Line:



Frequency (MHz)	Receiver QP Level (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.

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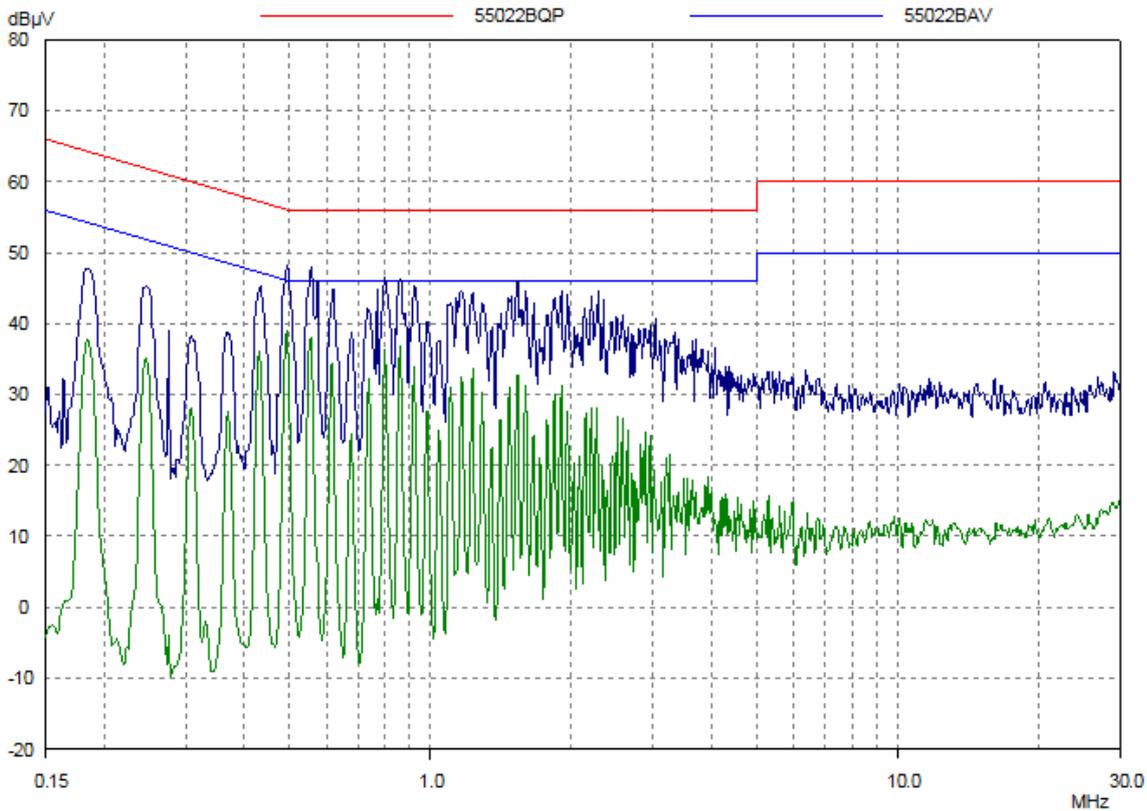
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FM Mode: (connected with T50002684AGAB power adapter of SCUD)

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.

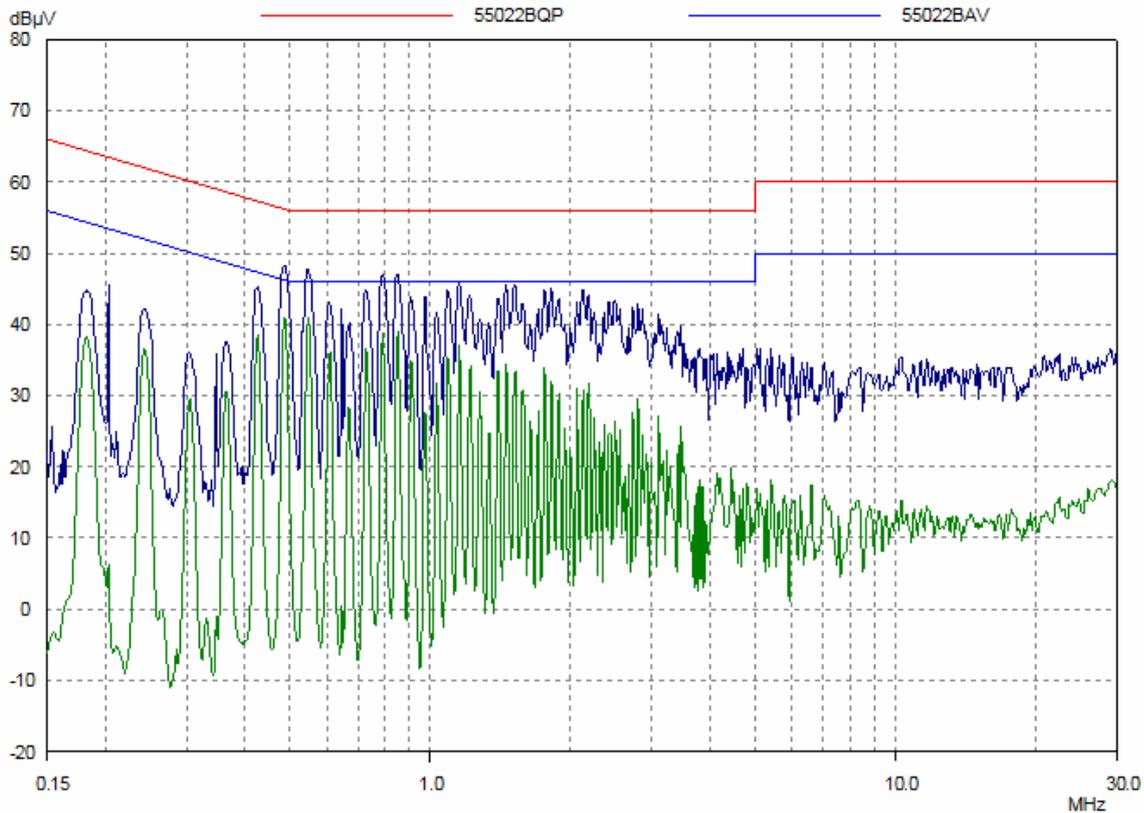
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N Line:



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.

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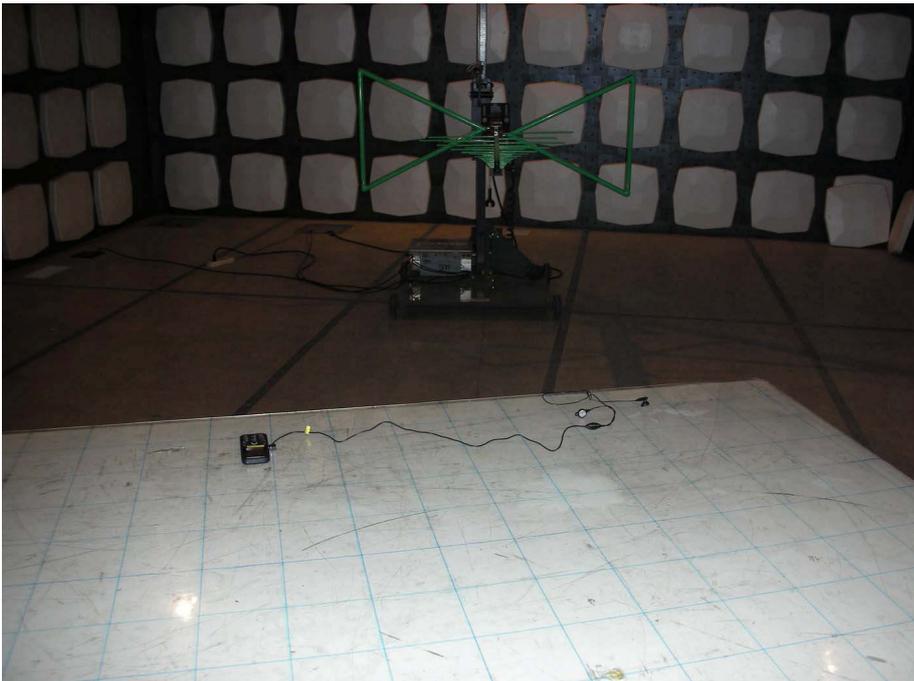
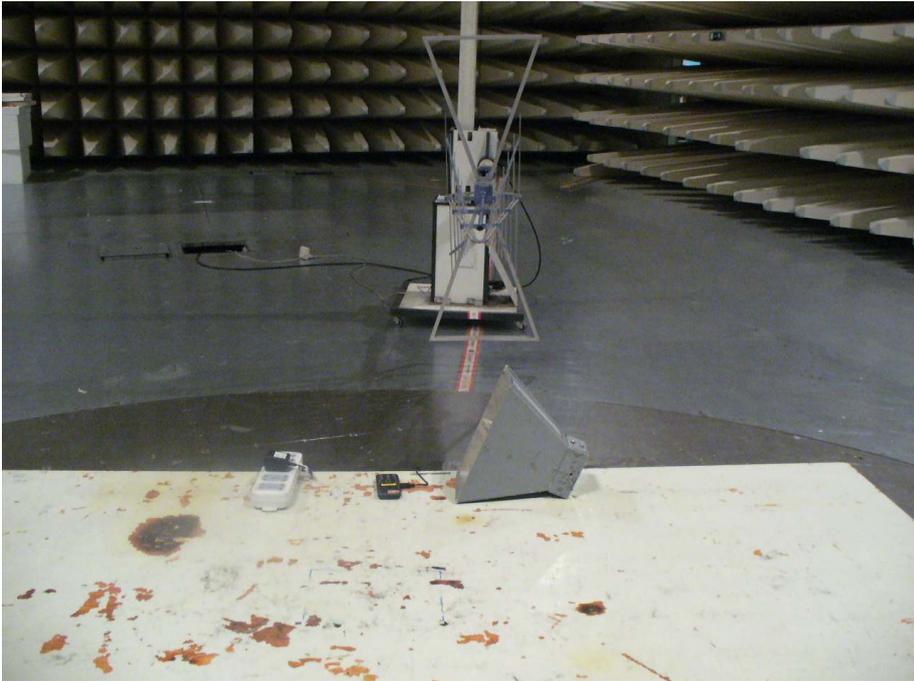
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**7 EQUIPMENT UNDER TEST PICTURES**

**7.1.1 Radiated Emission Test Setup**



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## 7.1.2 Conductet Emission Test Setup



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**7.1.3 EUT Constructional Details**



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***THE END OF REPORT***