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Tino.Pan@sgs.com

EMC TEST REPORT

Application No.: SHEMO080400012TL

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: U81A

Market Name: OT-S120A

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 23, 2008

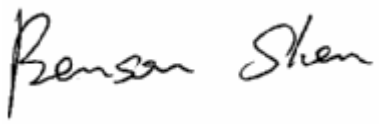
Date of Issue: April 24, 2008

Test Result :	**PASS***

* 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

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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

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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.:	U81A
Marketing Name:	OT-S120A
Frequency Bands	GSM850/PCS1900
Power Supply1:	AC to DC charger (Model No.: T5002684AGAA Input: AC 100V-240V~, 50/60Hz 150mA Output:DC 5.0V, 500mA) Manufactures: Tenpao
Power Supply2:	AC to DC charger (Model No.: T5002684AGAB 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.: CCA3010000E0

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 22, 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: 25.0°C Humidity: 55 % RH Atmospheric Pressure: 1012 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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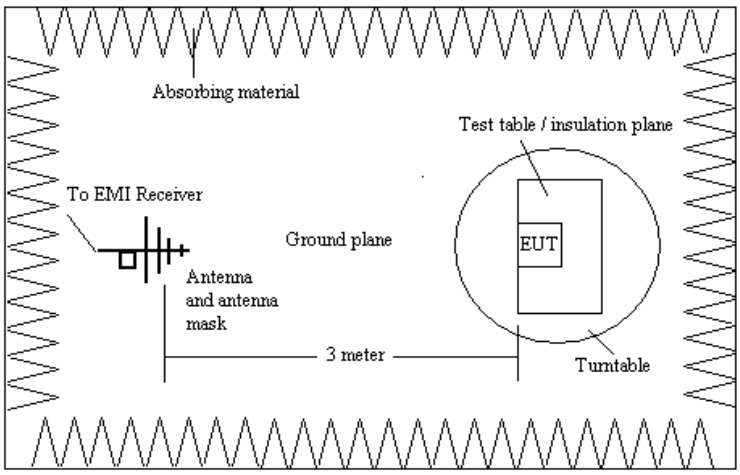
6.1.2 Test setup:



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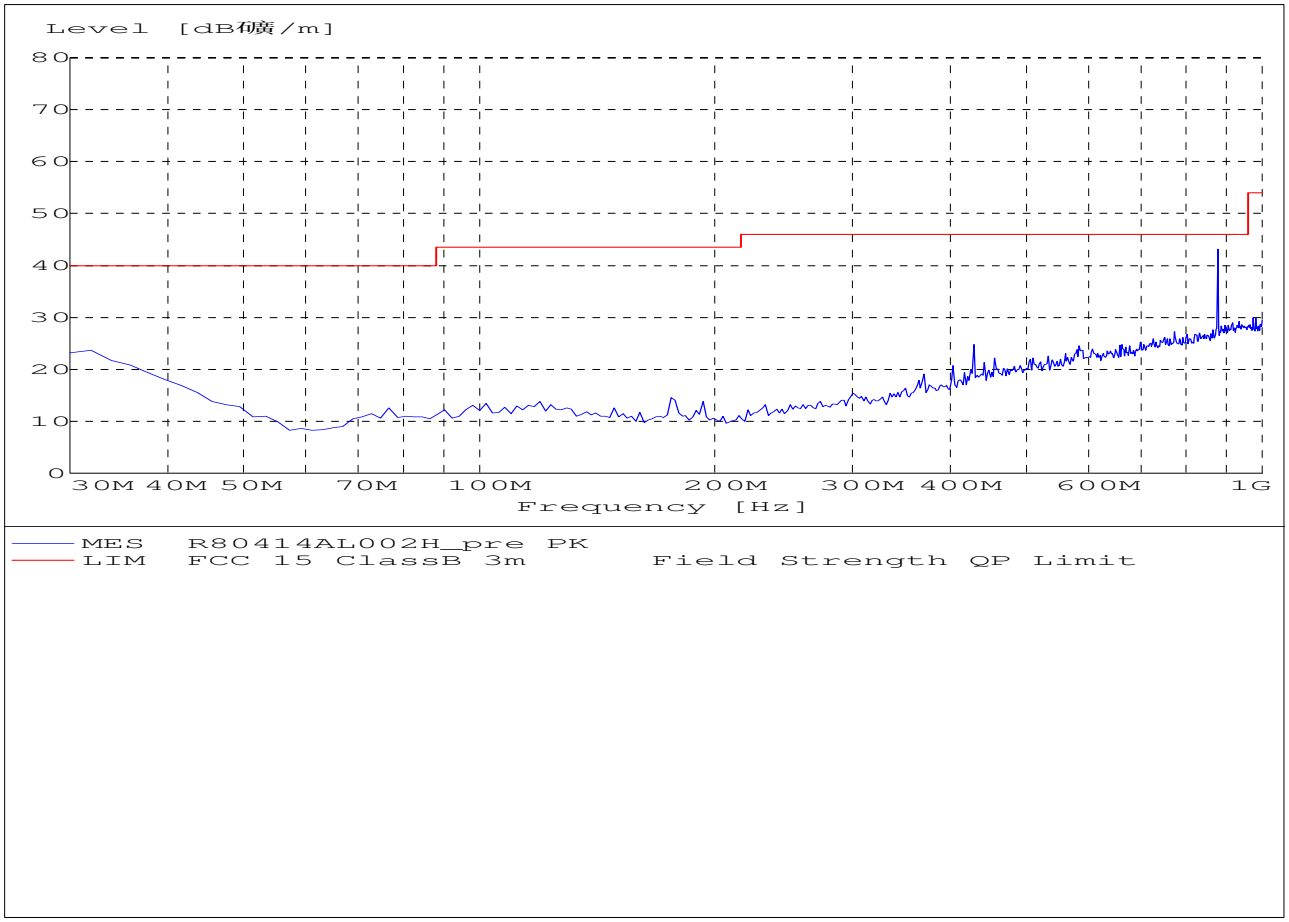
GSM 850 idle mode: (connected with T5002684AGAA power adapter of Tenpao)
Horizontal:



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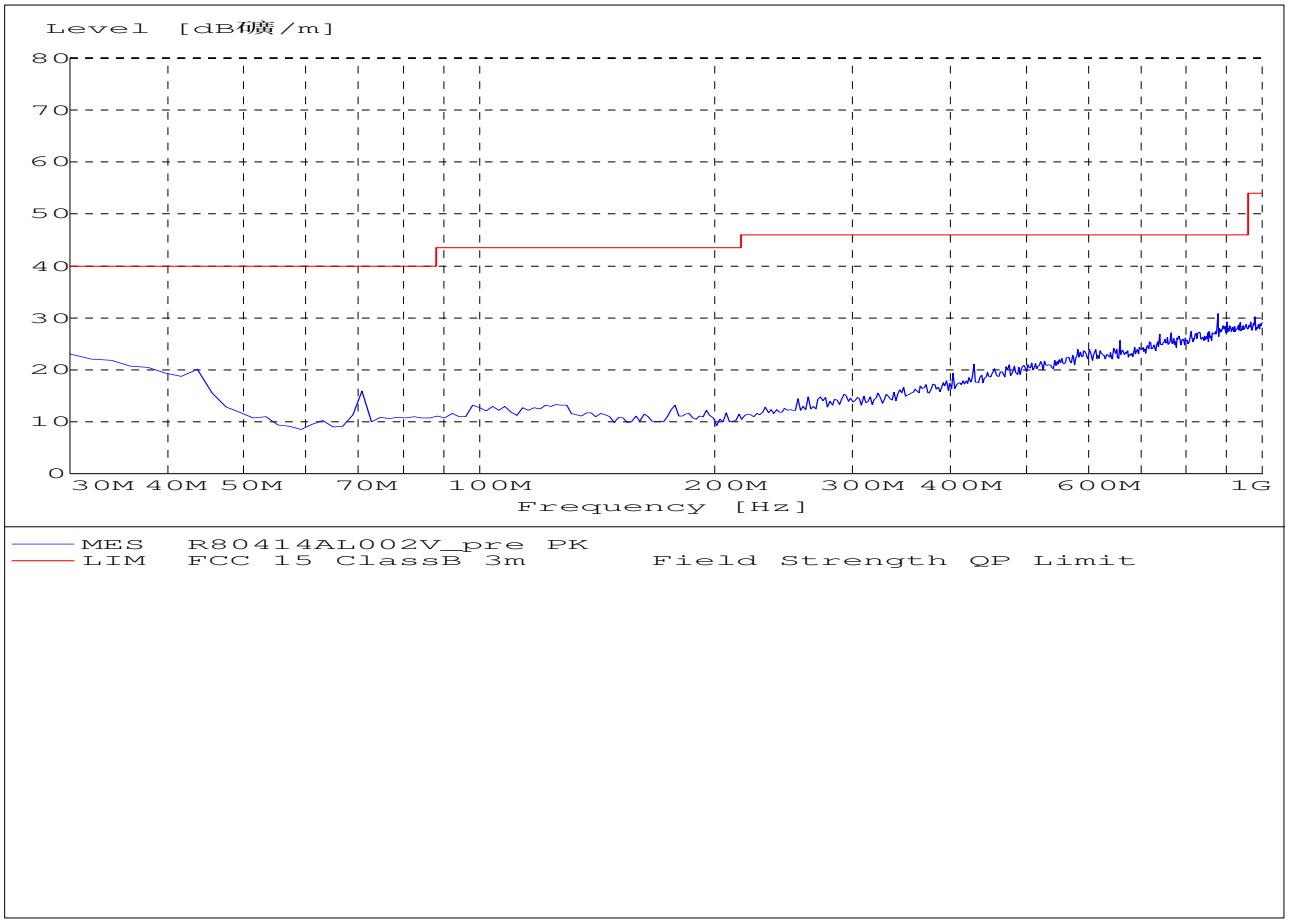
Vertical:



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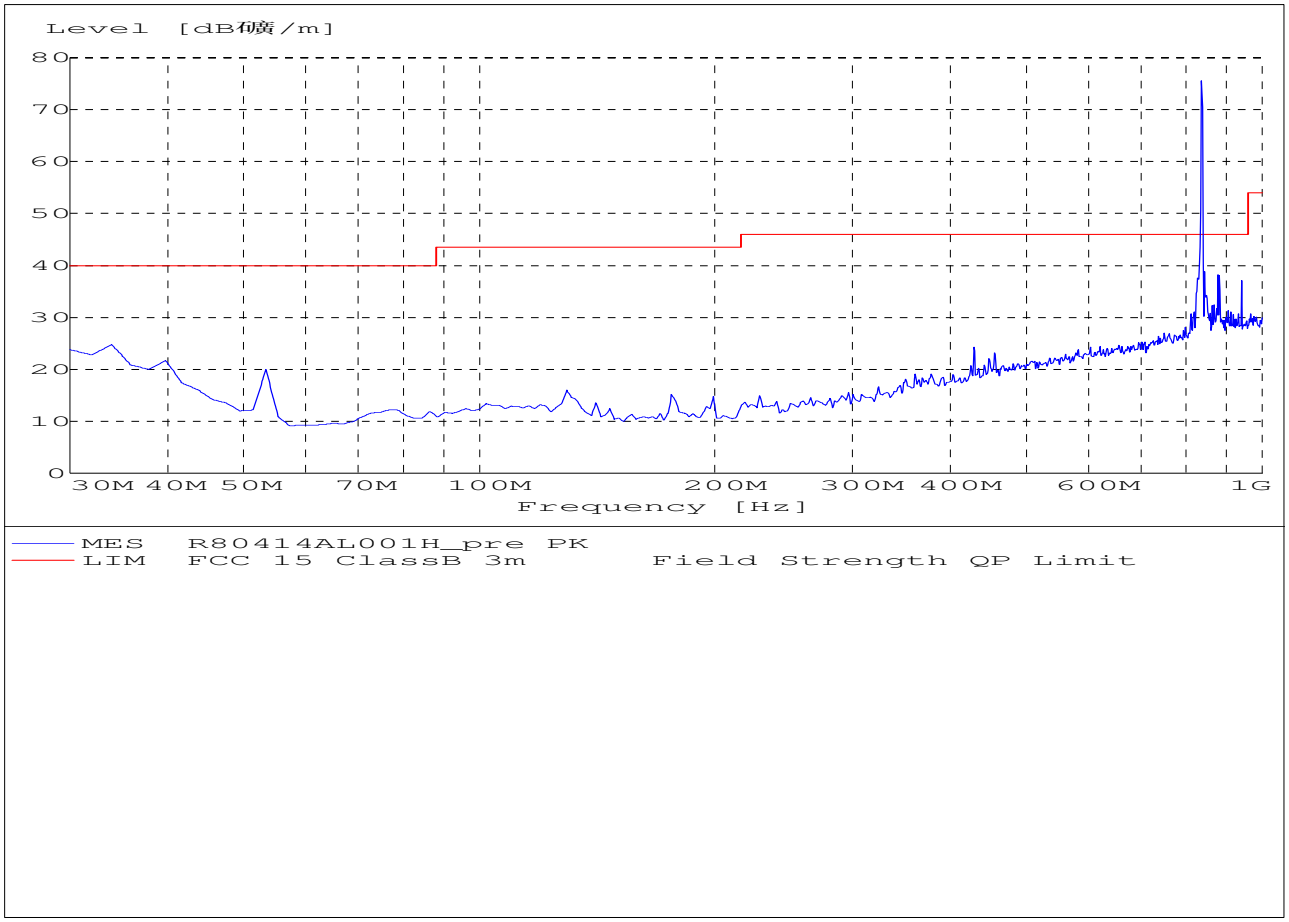
GSM 850 communication mode: (connected with T5002684AGAA power adapter of Tenpao)
Horizontal:



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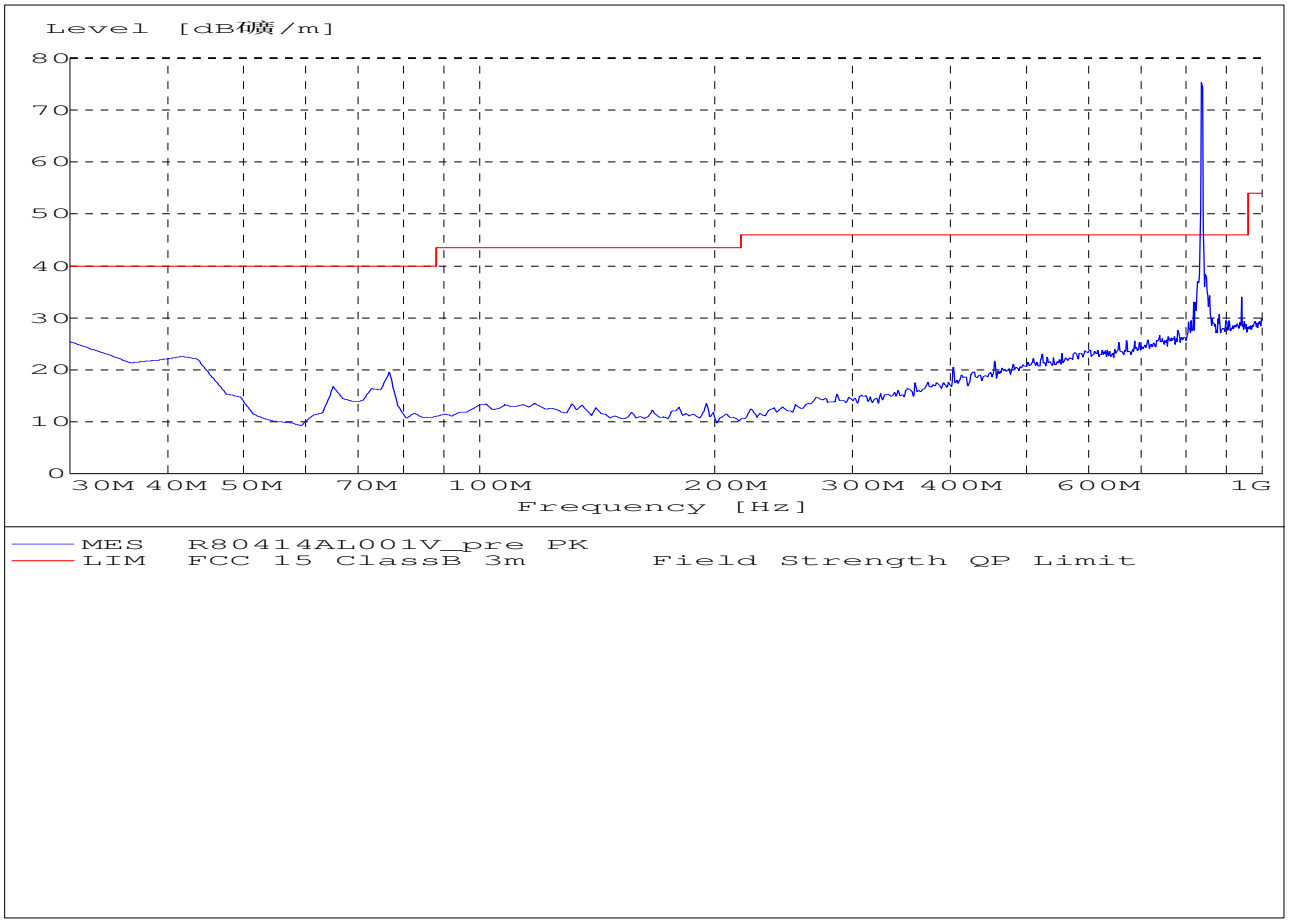

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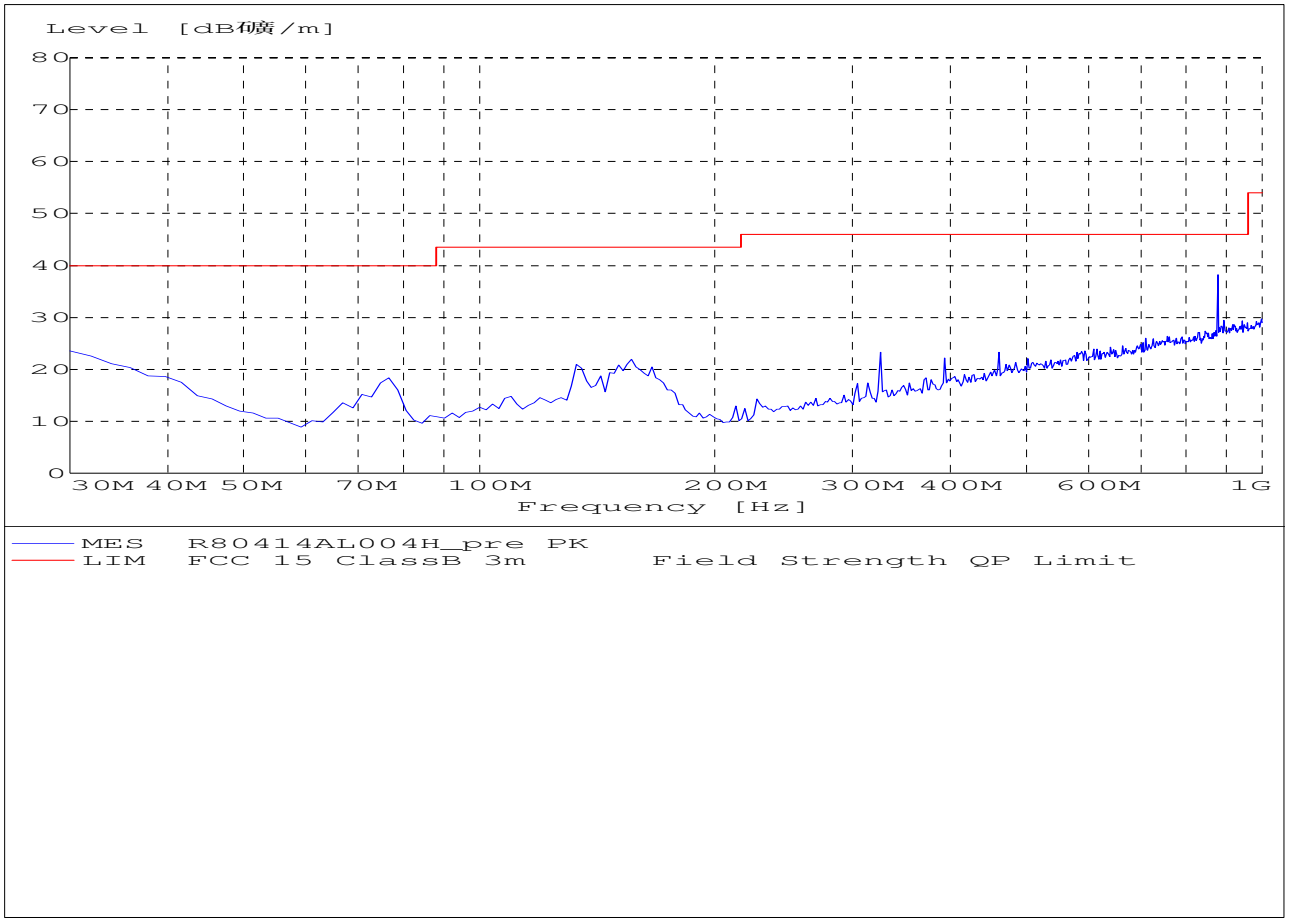
GSM 850 idle mode: (connected with T5002684AGAB power adapter of SCUD)
Horizontal:



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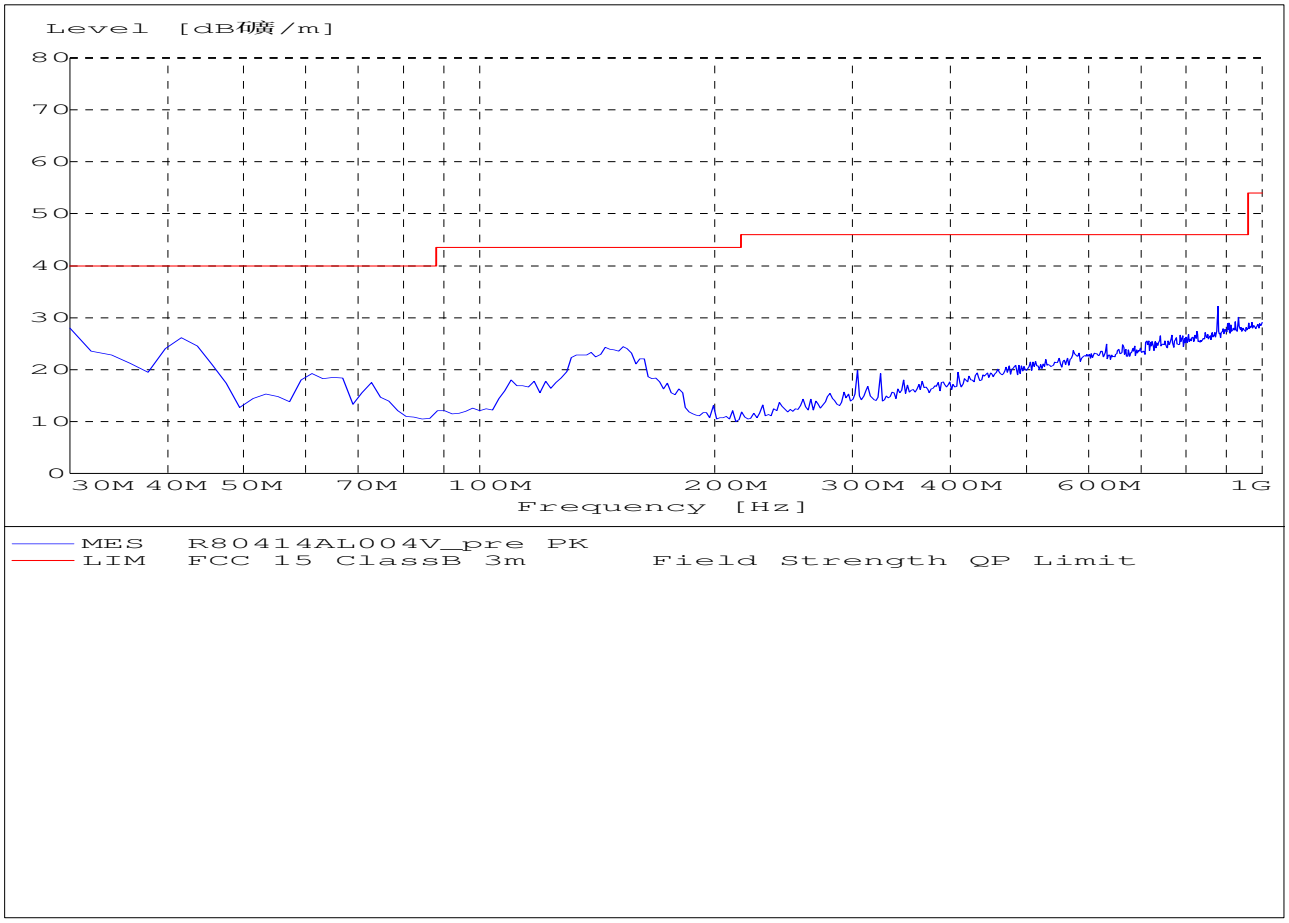
Vertical:



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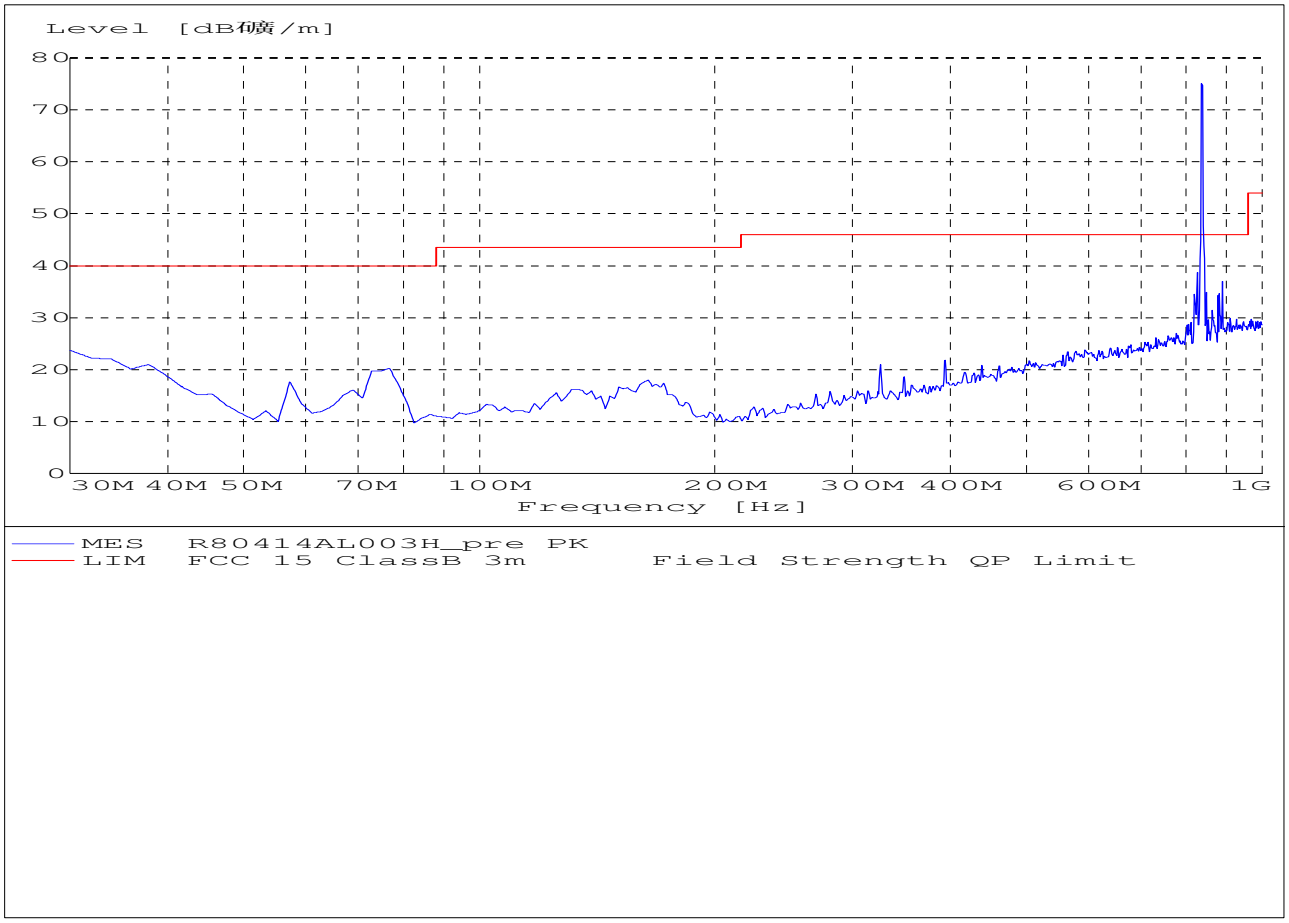
GSM 850 communication mode: (connected with T5002684AGAB power adapter of SCUD)
Horizontal:



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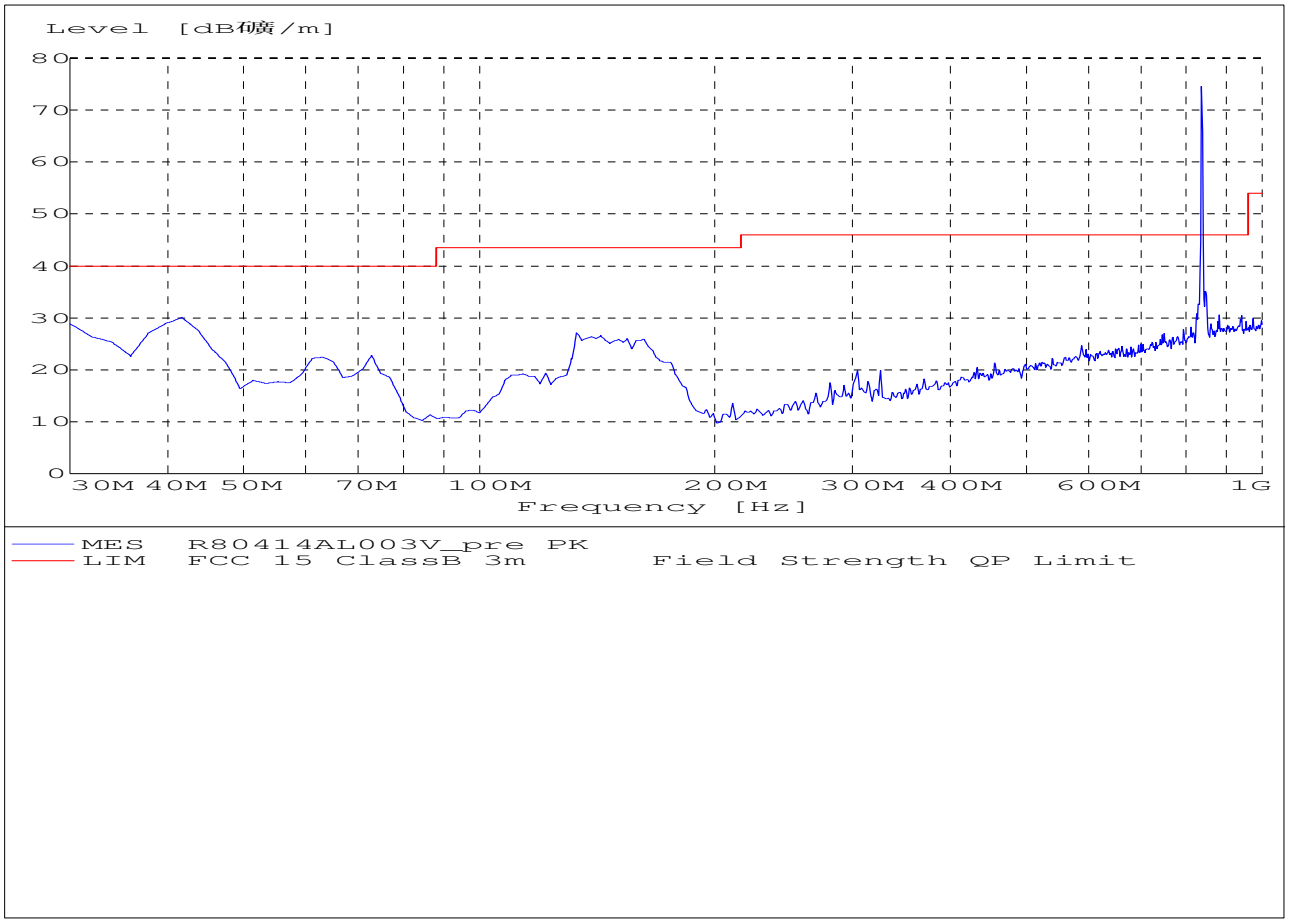
Vertical:



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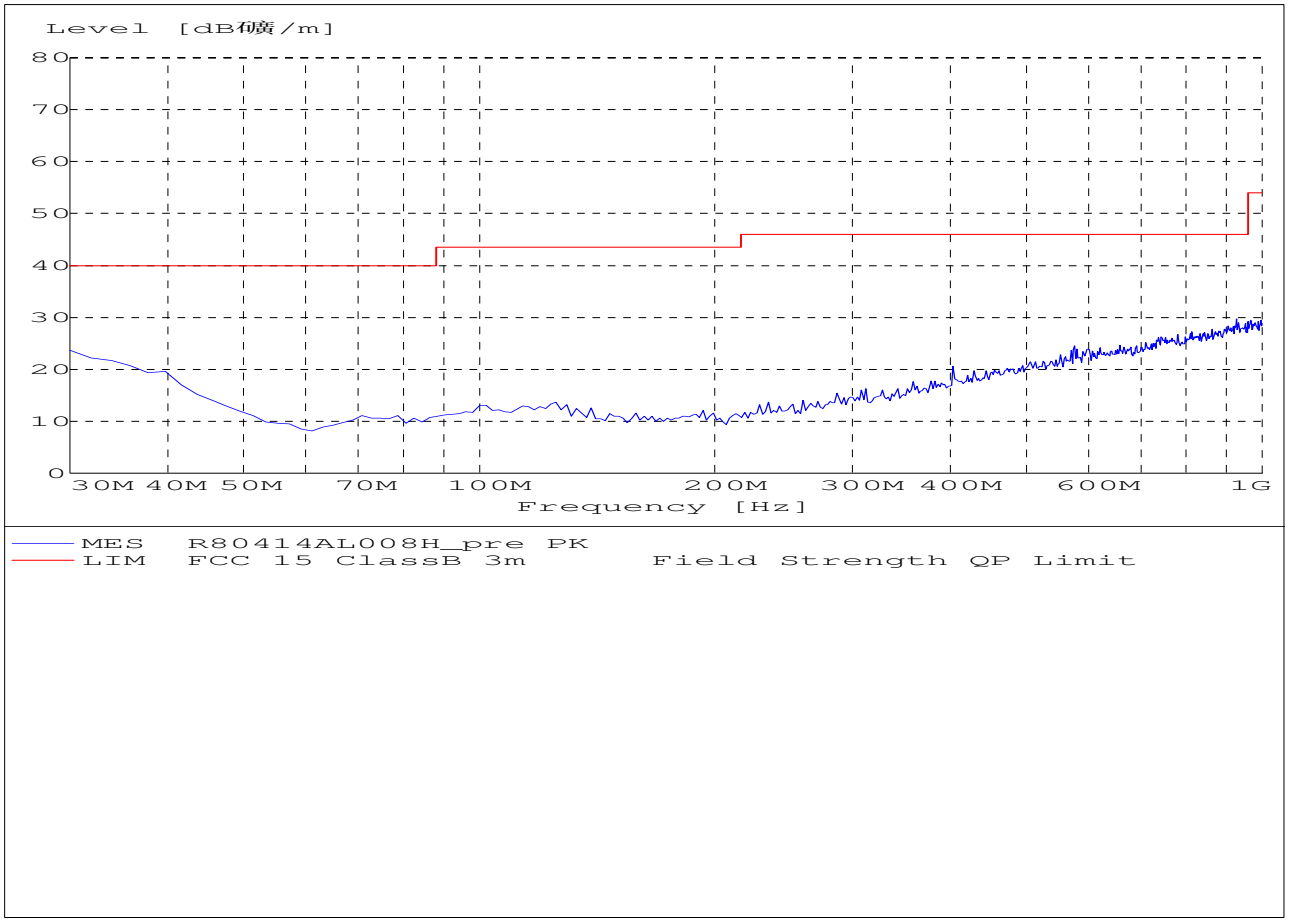
PCS 1900 idle mode: (connected with T5002684AGAA power adapter of Tenpao)
Horizontal:



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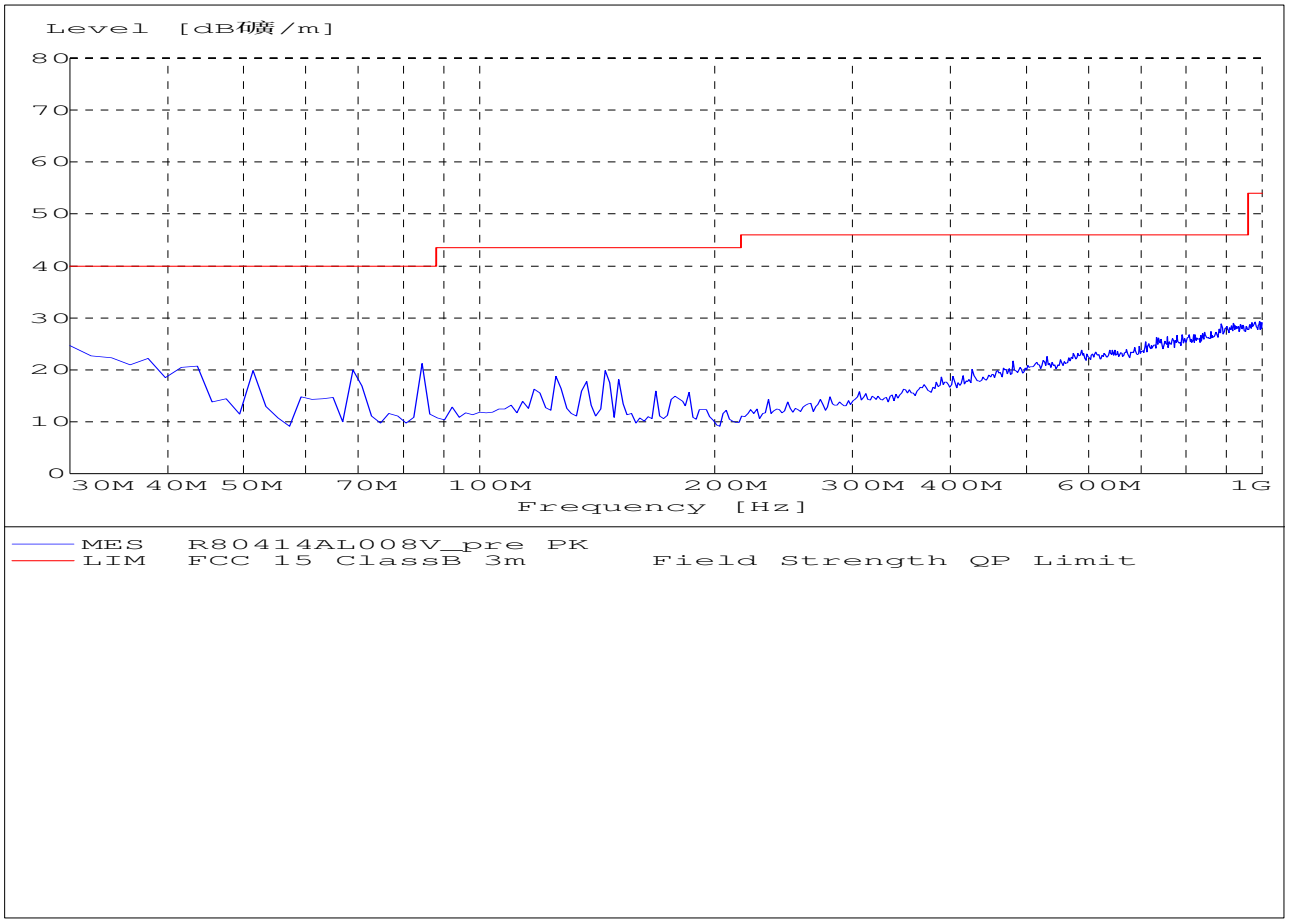
Vertical:



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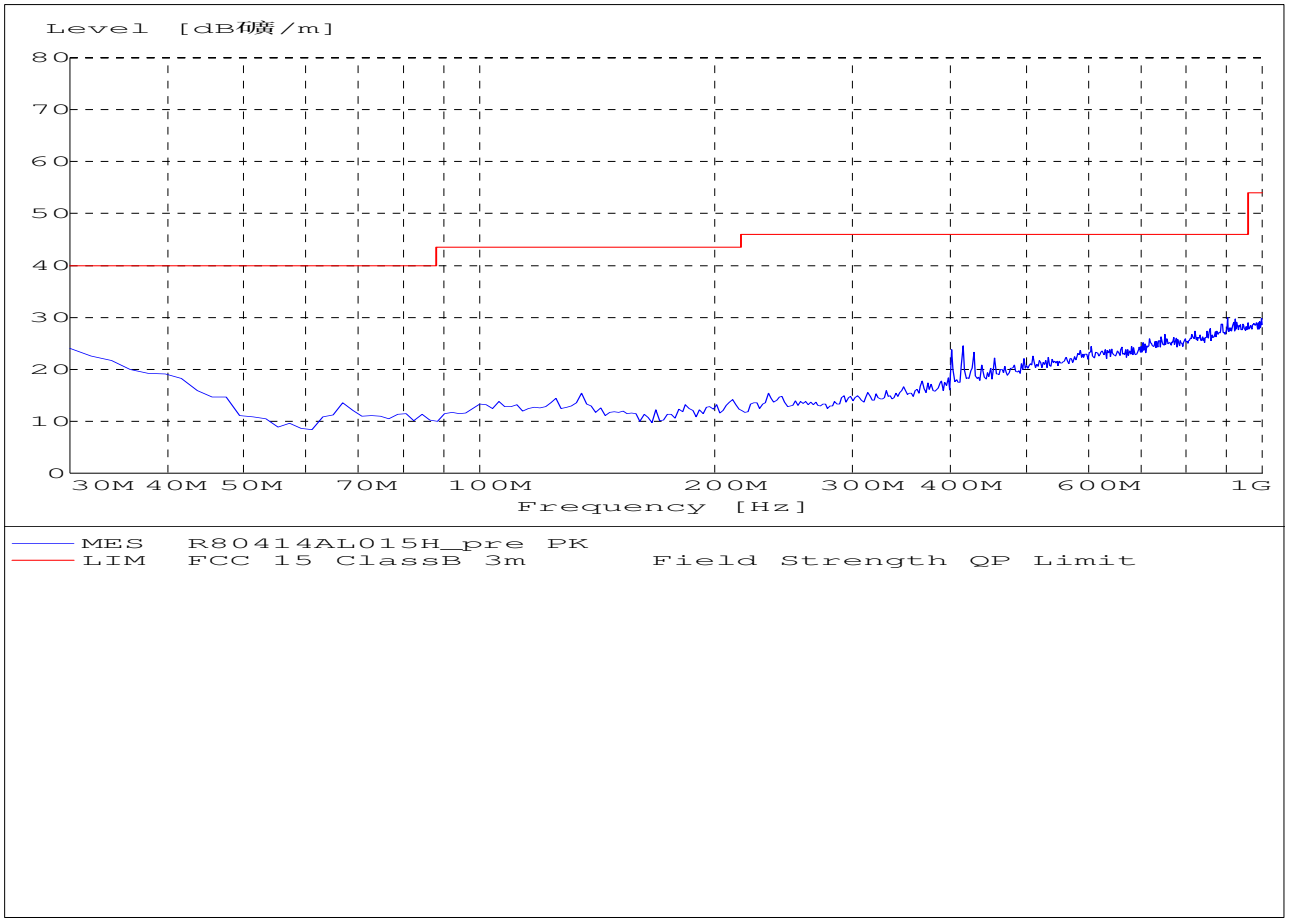
Horizontal:



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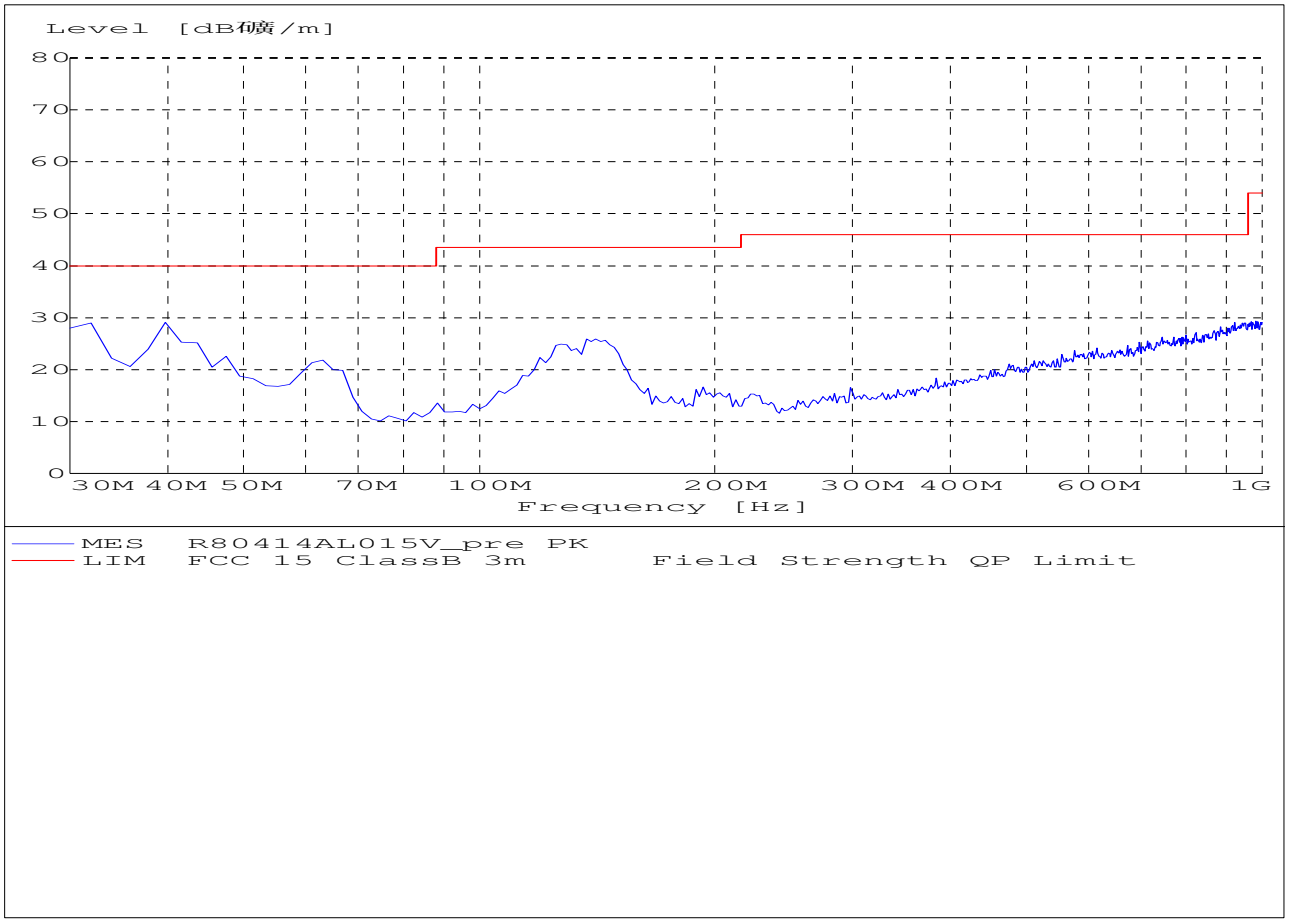

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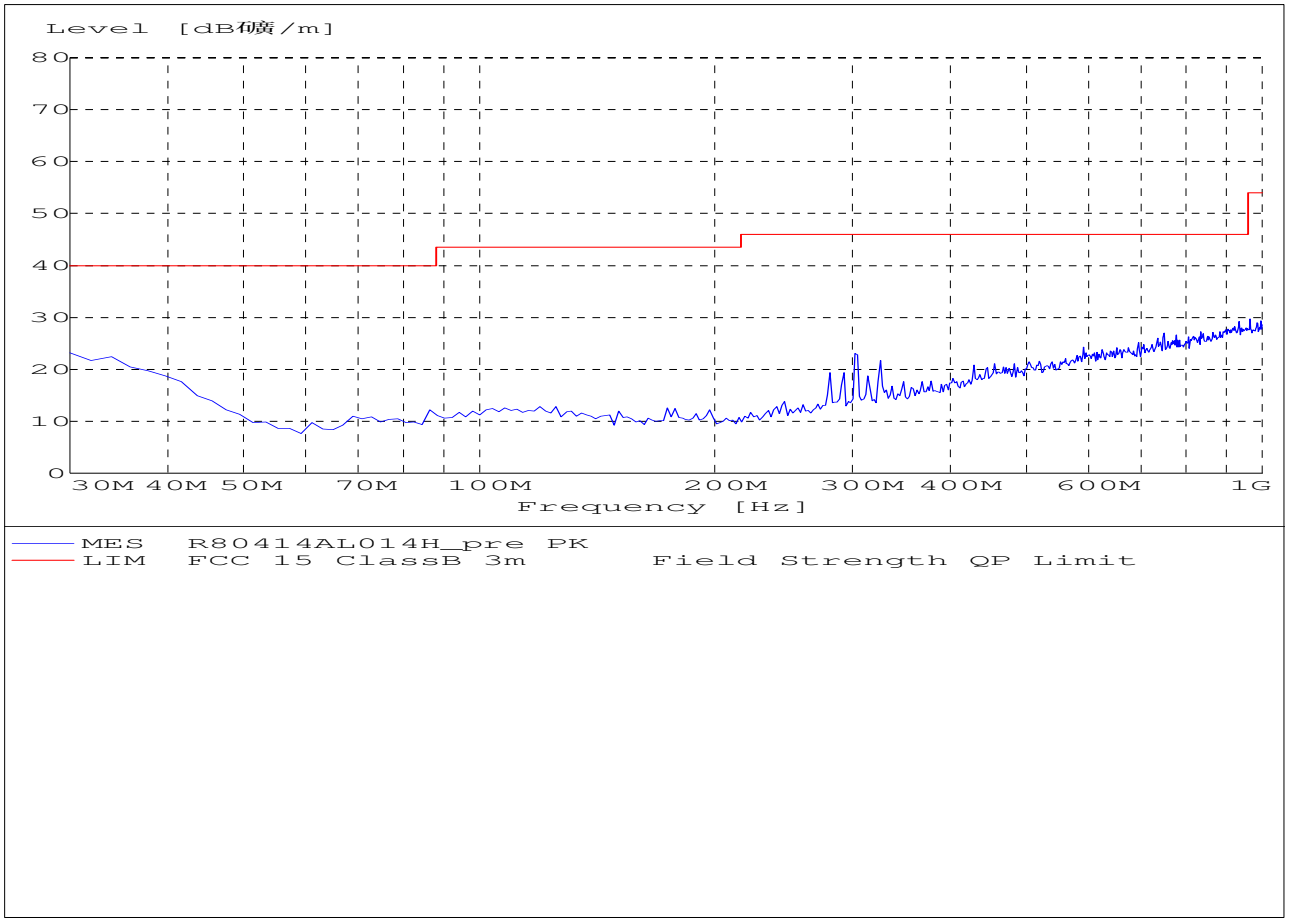
PCS 1900 Idle mode: (connected with T5002684AGAB power adapter of SCUD)
Horizontal:



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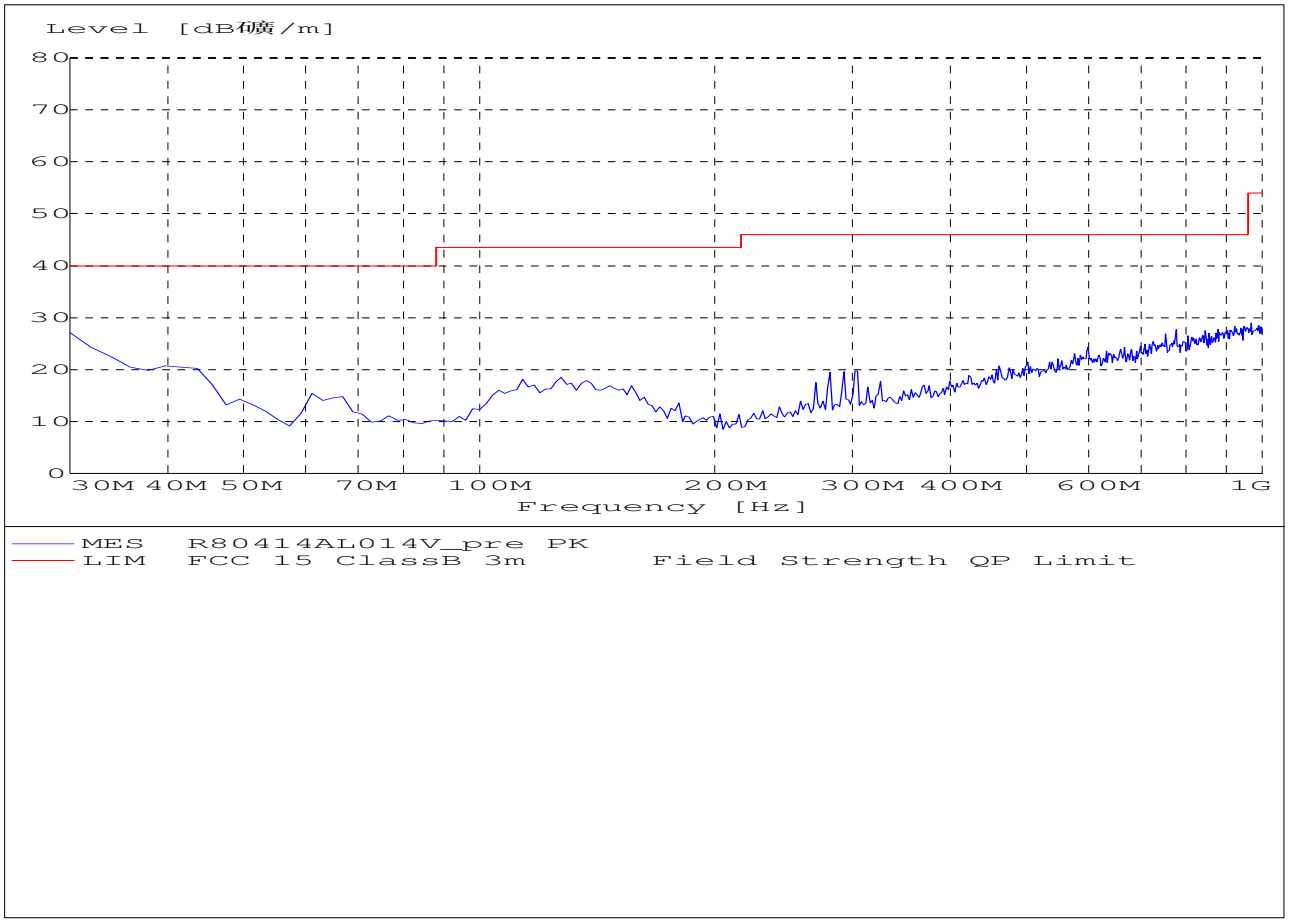

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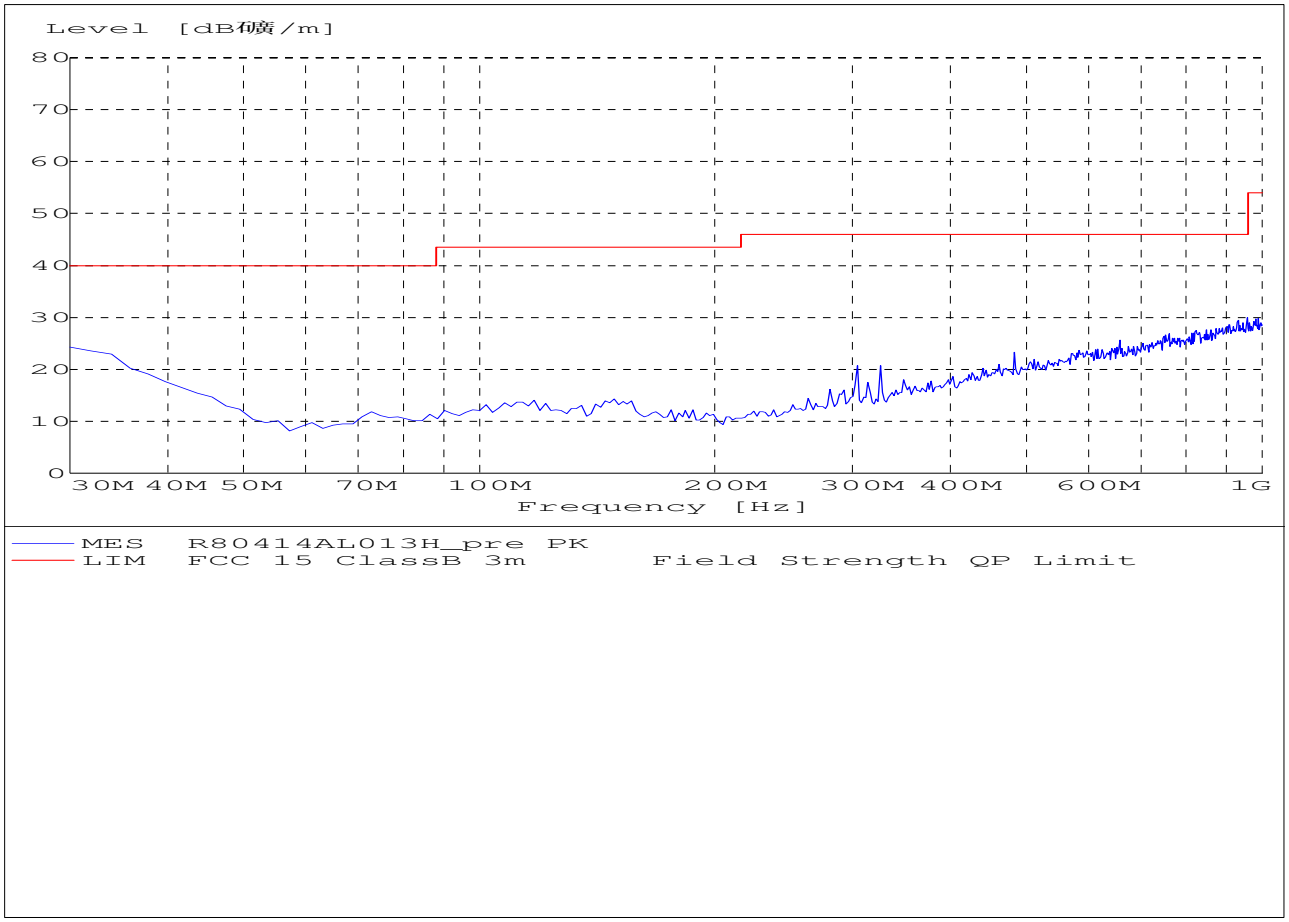
Horizontal:



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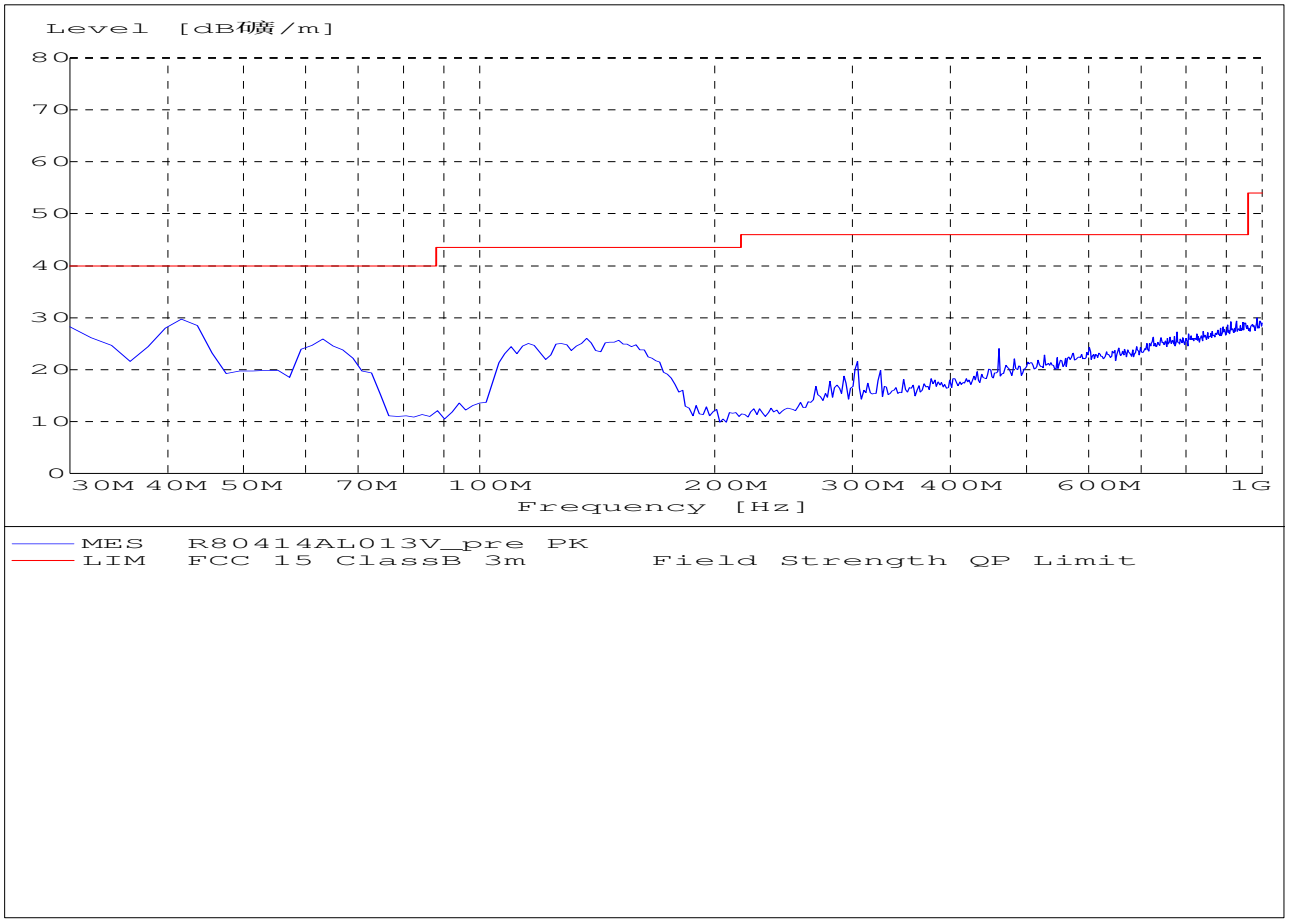

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6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15 Subpart B
Test Method:	ANSI C63.4
Test Date:	April 18, 2008 to April 22, 2008
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: 23.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar

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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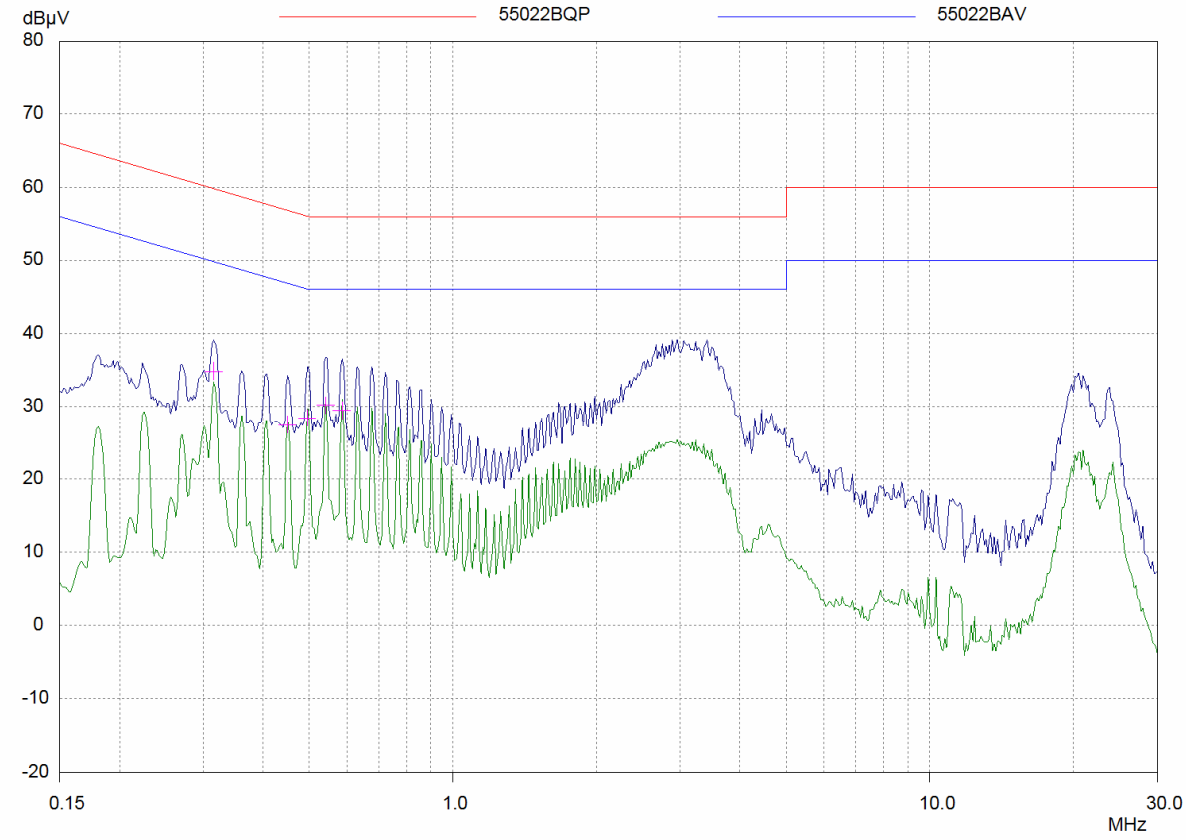
GSM 850 idle mode: (connected with T5002684AGAA power adapter of Tenpao)

L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
No results			

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.31471	34.79	49.85	15.06
0.45044	27.42	46.87	19.45
0.49564	28.37	46.07	17.70
0.54104	30.15	46.00	15.85
0.58592	29.45	46.00	16.55

N Line:

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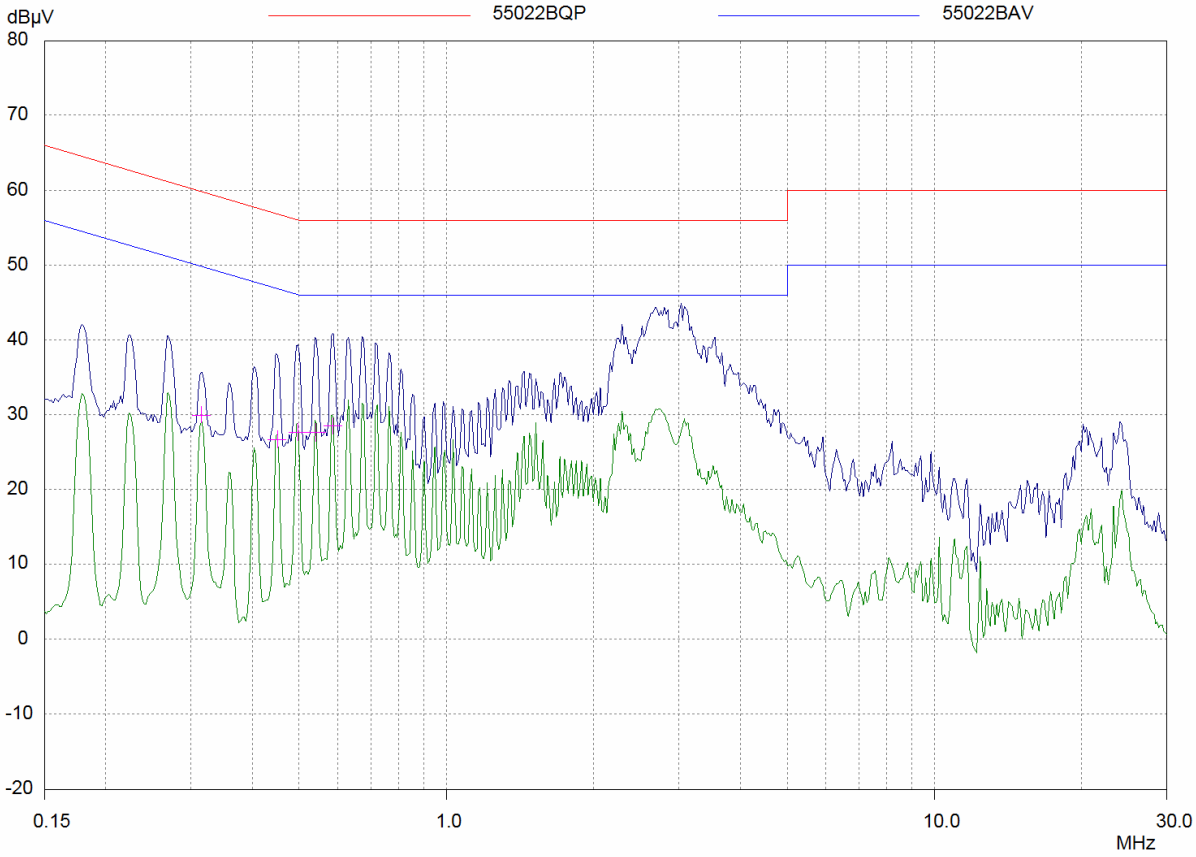

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB

No results

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.31471	29.64	49.85	19.91
0.45044	26.57	46.87	20.30
0.49564	27.55	46.07	18.52
0.54104	27.49	46.00	18.51
0.58592	28.45	46.00	17.55

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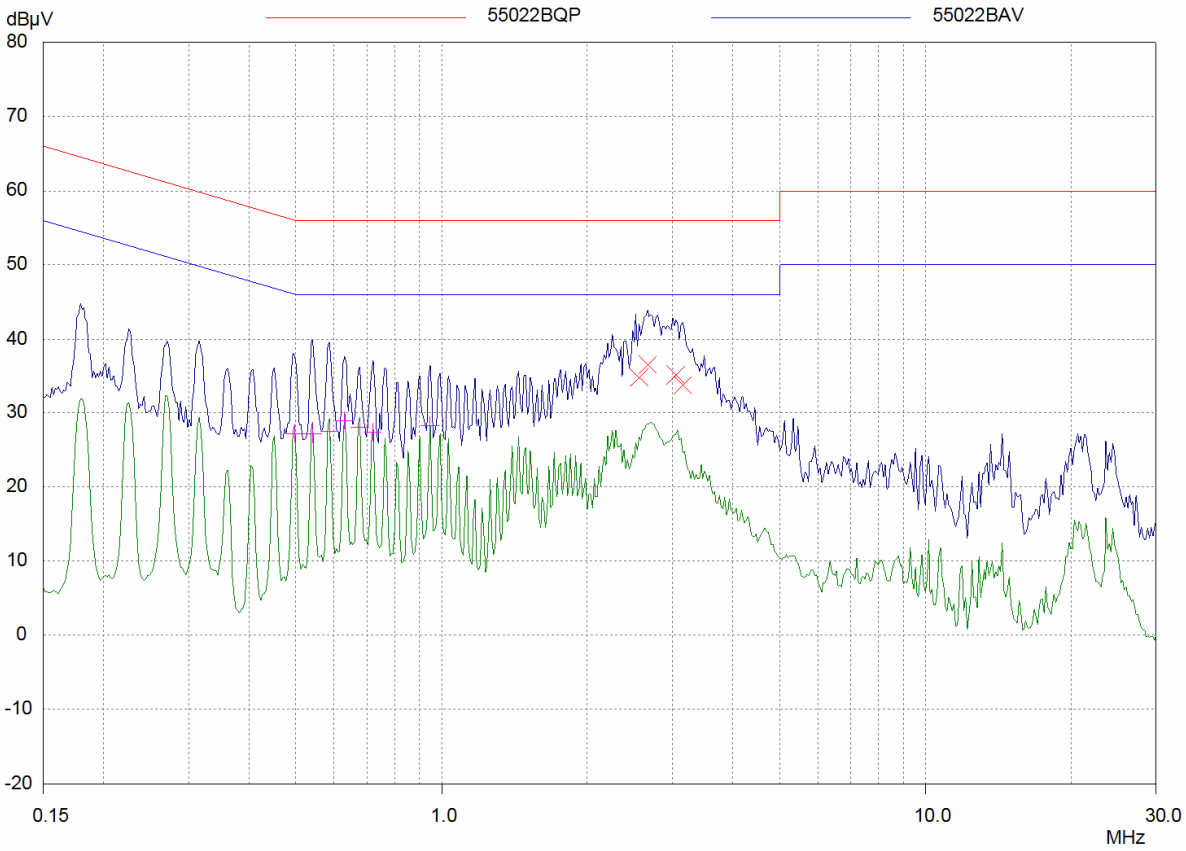
GSM 850 communication mode: (connected with T5002684AGAA power adapter of Tenpao)

L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.55882	34.80	56.00	21.20
2.66282	36.57	56.00	19.43
3.0491	35.18	56.00	20.82
3.14785	33.83	56.00	22.17

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.49564	27.12	46.07	18.95
0.54104	27.11	46.00	18.89
0.58592	27.42	46.00	18.58
0.62948	28.91	46.00	17.09
0.67628	27.98	46.00	18.02
0.7208	27.34	46.00	18.66
0.94509	28.23	46.00	17.77

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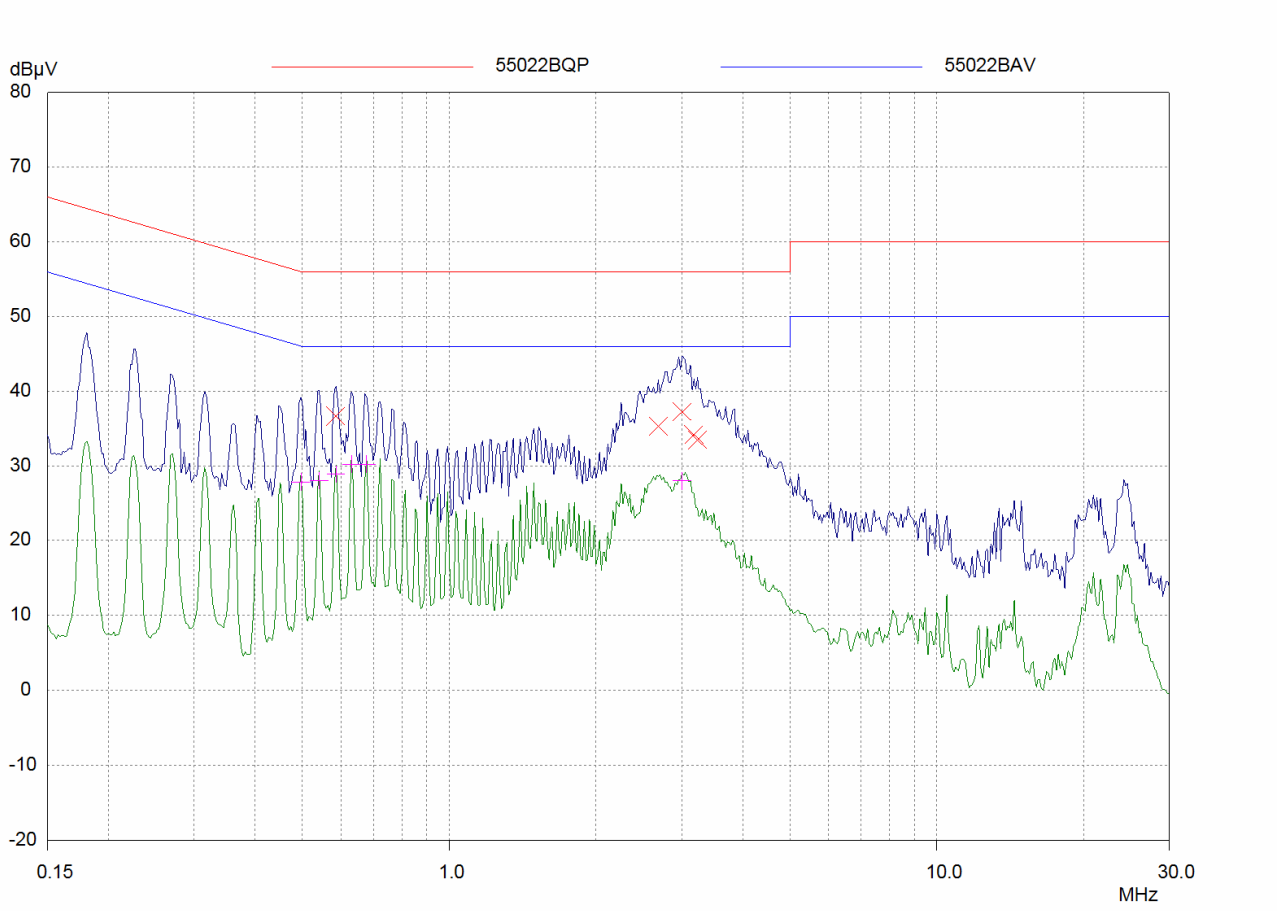

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.58592	36.66	56.00	19.34
2.88413	35.34	56.00	20.66
3.00089	37.24	56.00	18.76
3.17303	34.21	56.00	21.79
3.224	33.50	56.00	22.50

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.49564	27.76	46.07	18.31
0.54184	27.91	46.00	18.09
0.58592	28.78	46.00	17.22
0.62948	30.18	46.00	15.82
0.67626	30.17	46.00	15.83
3.00089	27.91	46.00	18.09

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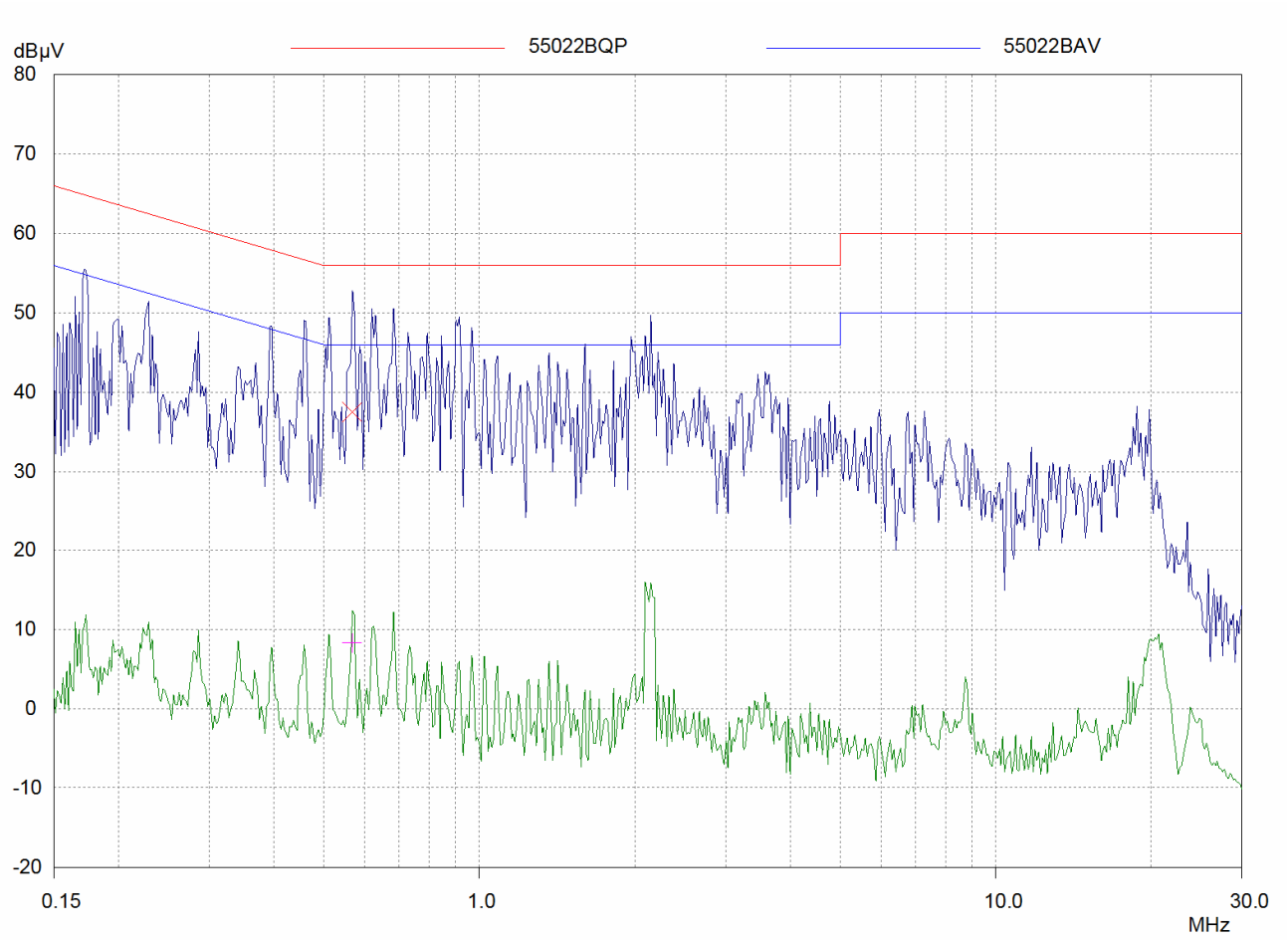

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.58754	37.50	56.00	18.50

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.58754	8.26	46.00	37.74

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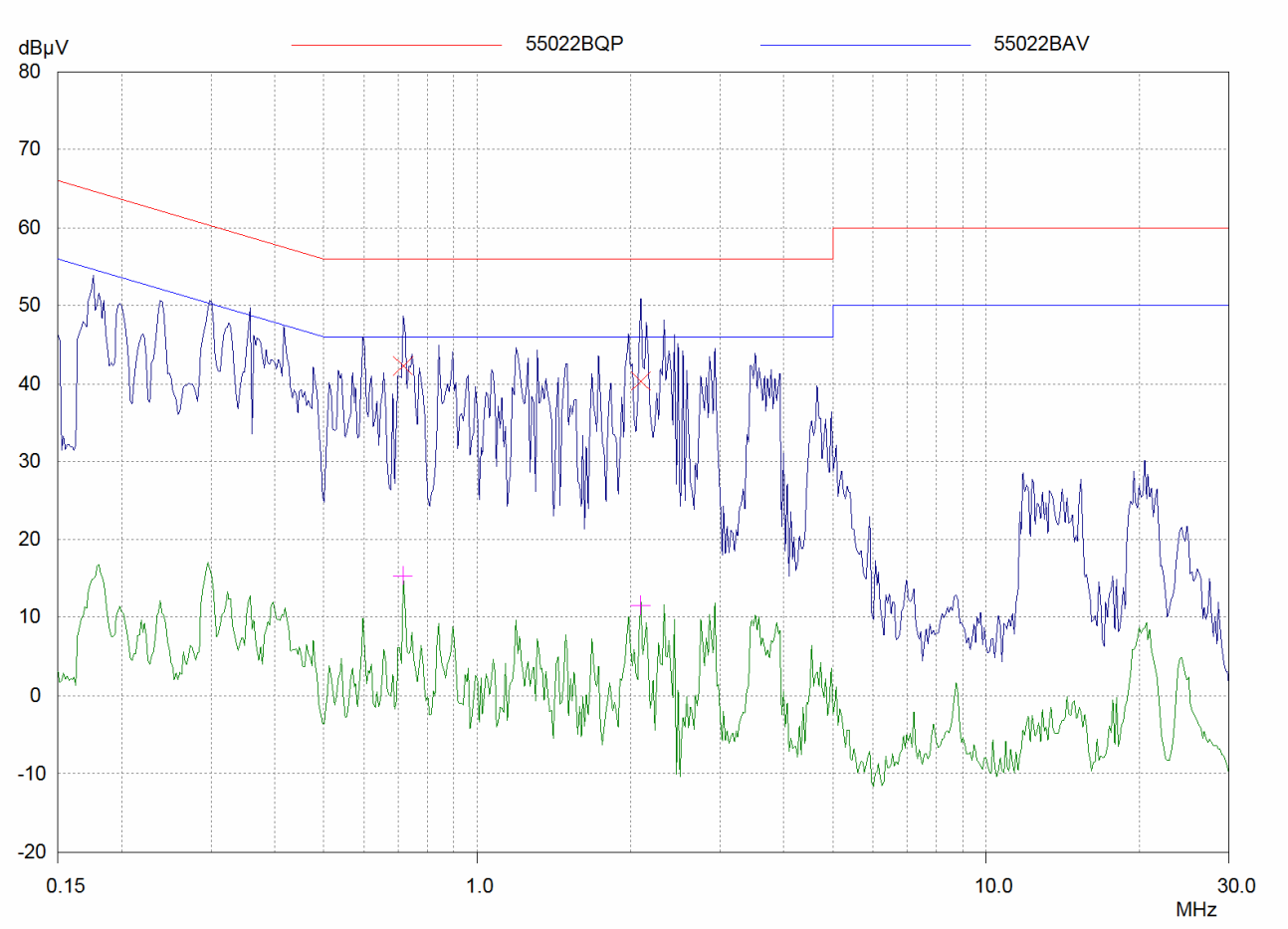

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.71508	42.28	56.00	13.72
2.09665	40.30	56.00	15.70

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.71508	15.28	46.00	30.72
2.09665	11.50	46.00	34.50

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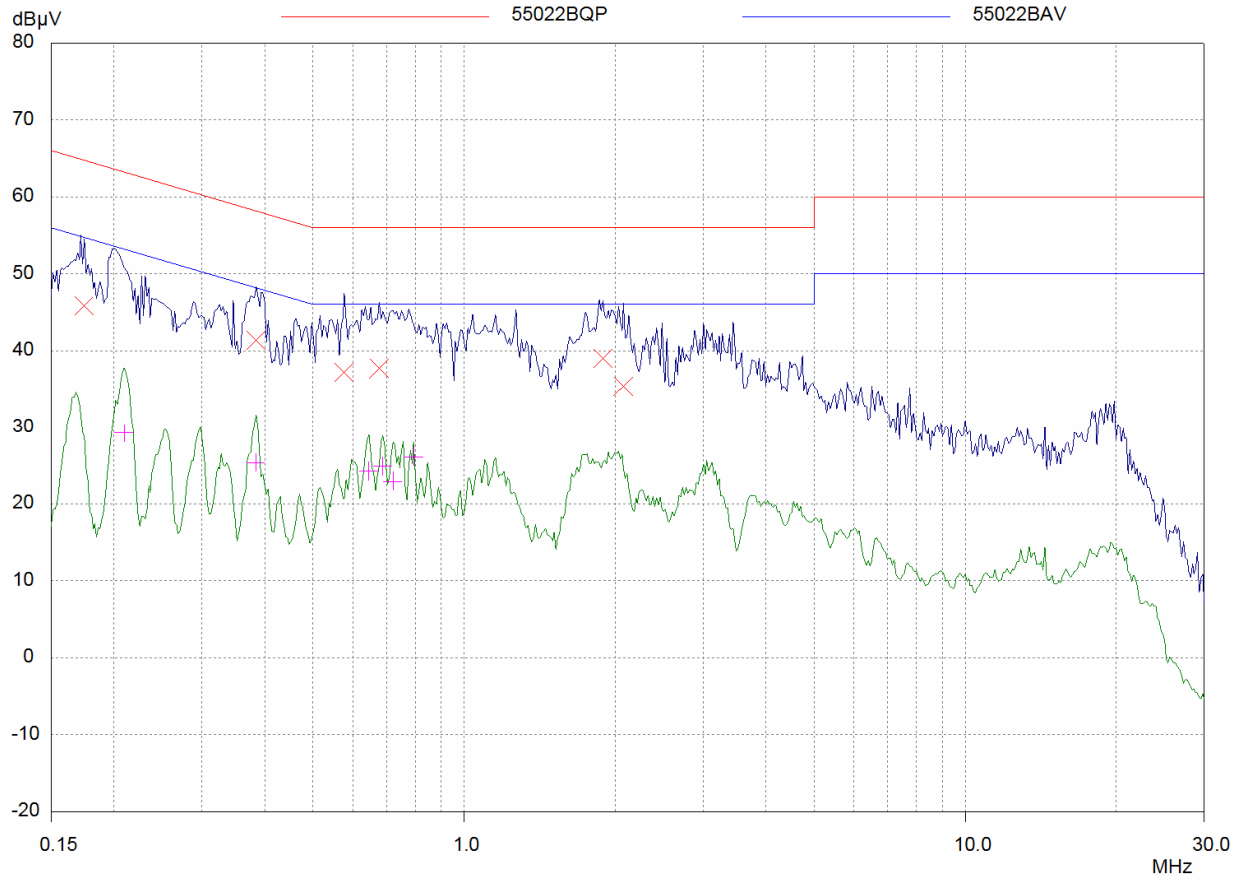

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.17451	45.83	64.74	18.91
0.38409	41.30	58.19	16.89
0.57888	37.16	56.00	18.84
0.87828	37.68	56.00	18.32
1.89034	38.98	56.00	17.02
2.08001	35.38	56.00	20.62

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.20962	29.19	53.22	24.03
0.38409	25.33	48.19	22.86
0.64471	24.23	46.00	21.77
0.68715	24.82	46.00	21.18
0.7206	22.90	46.00	23.10
0.79312	26.09	46.00	19.91

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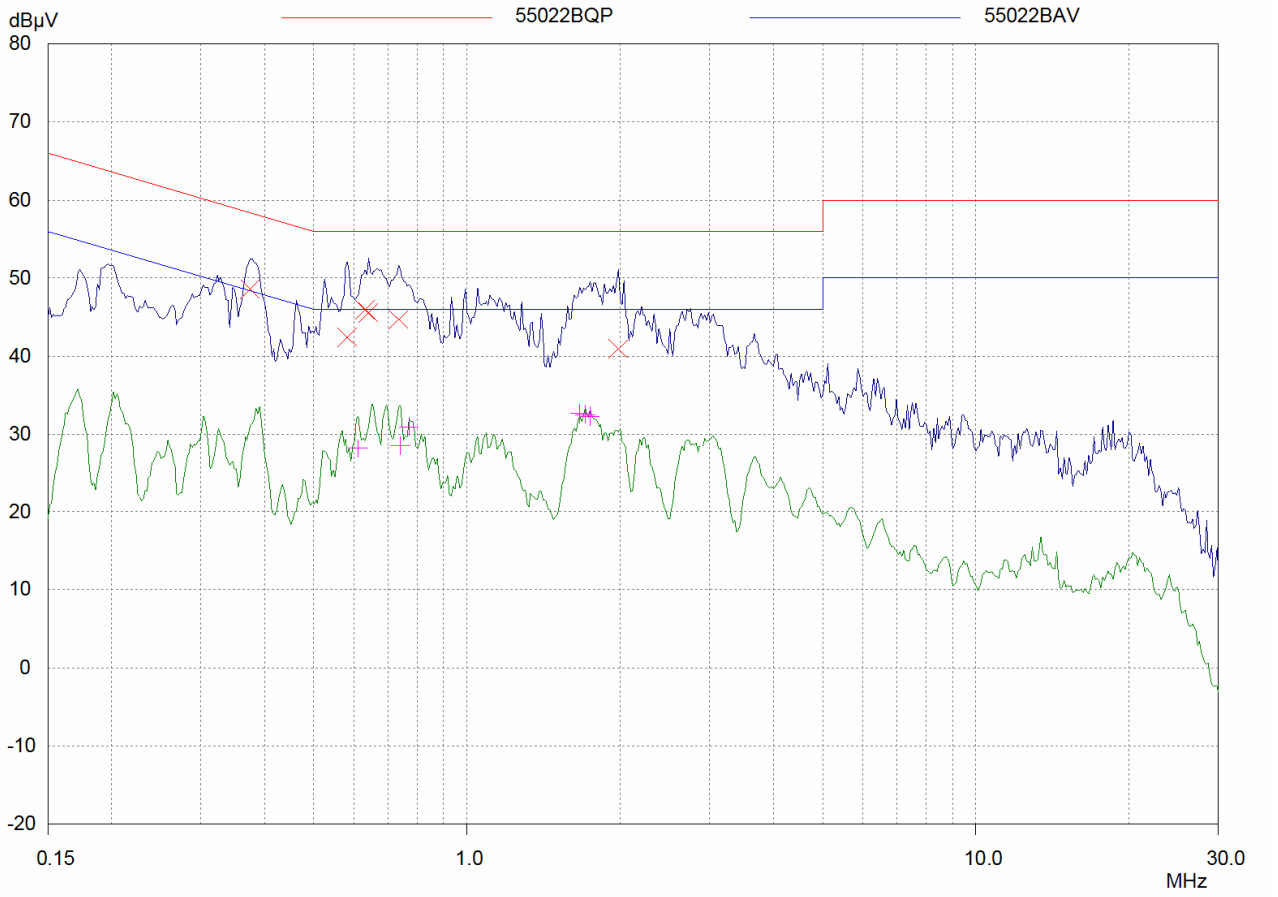

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.37501	48.57	58.39	9.82
0.58127	42.45	56.00	13.55
0.62948	45.93	56.00	10.07
0.63959	45.61	56.00	10.39
0.73238	44.72	56.00	11.28
1.98291	40.93	56.00	15.07

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.60974	28.09	46.00	17.91
0.73624	28.51	46.00	17.49
0.76824	30.98	46.00	15.02
1.66407	32.66	46.00	13.34
1.70432	32.54	46.00	13.46
1.74556	32.31	46.00	13.69

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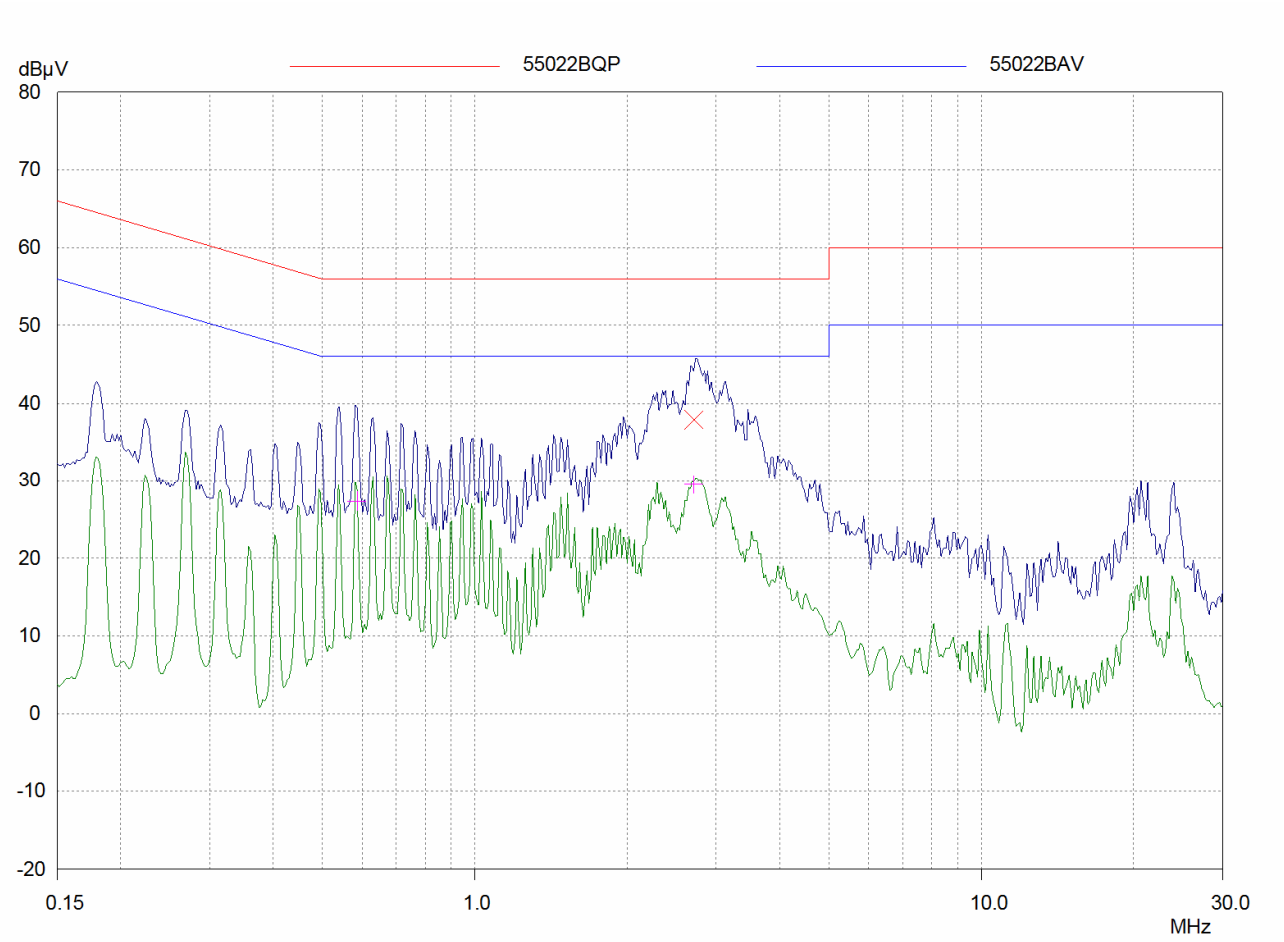
PCS 1900 idle mode: (connected with T5002684AGAA power adapter of Tenpao)

L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.7056	37.90	56.00	18.10

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.58562	27.26	46.00	18.74
2.7056	29.43	46.00	16.57

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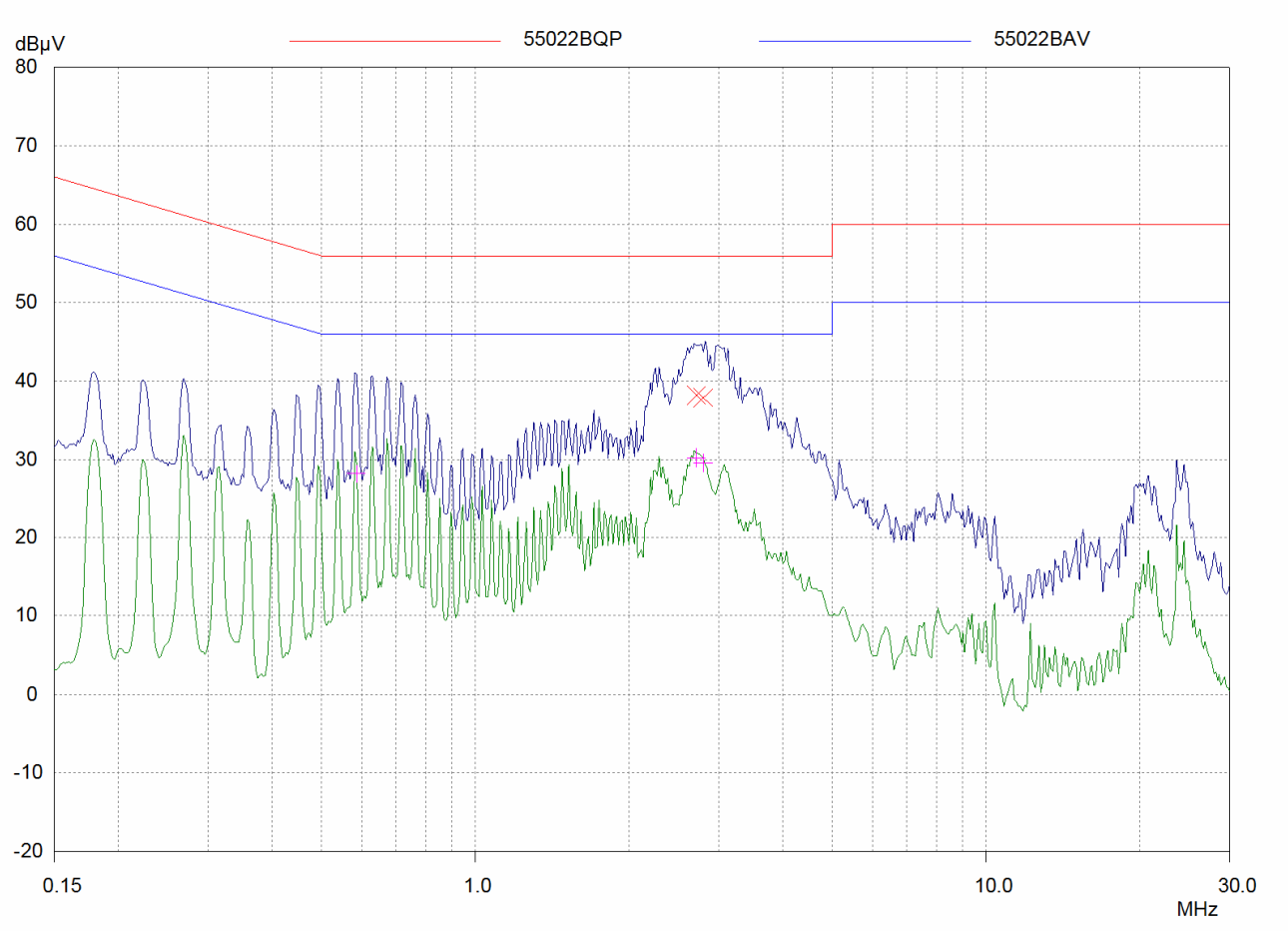

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.7058	38.20	56.00	17.80
2.79322	37.86	56.00	18.14

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.58562	28.10	46.00	17.90
2.7058	30.17	46.00	15.83
2.79322	29.49	46.00	16.51

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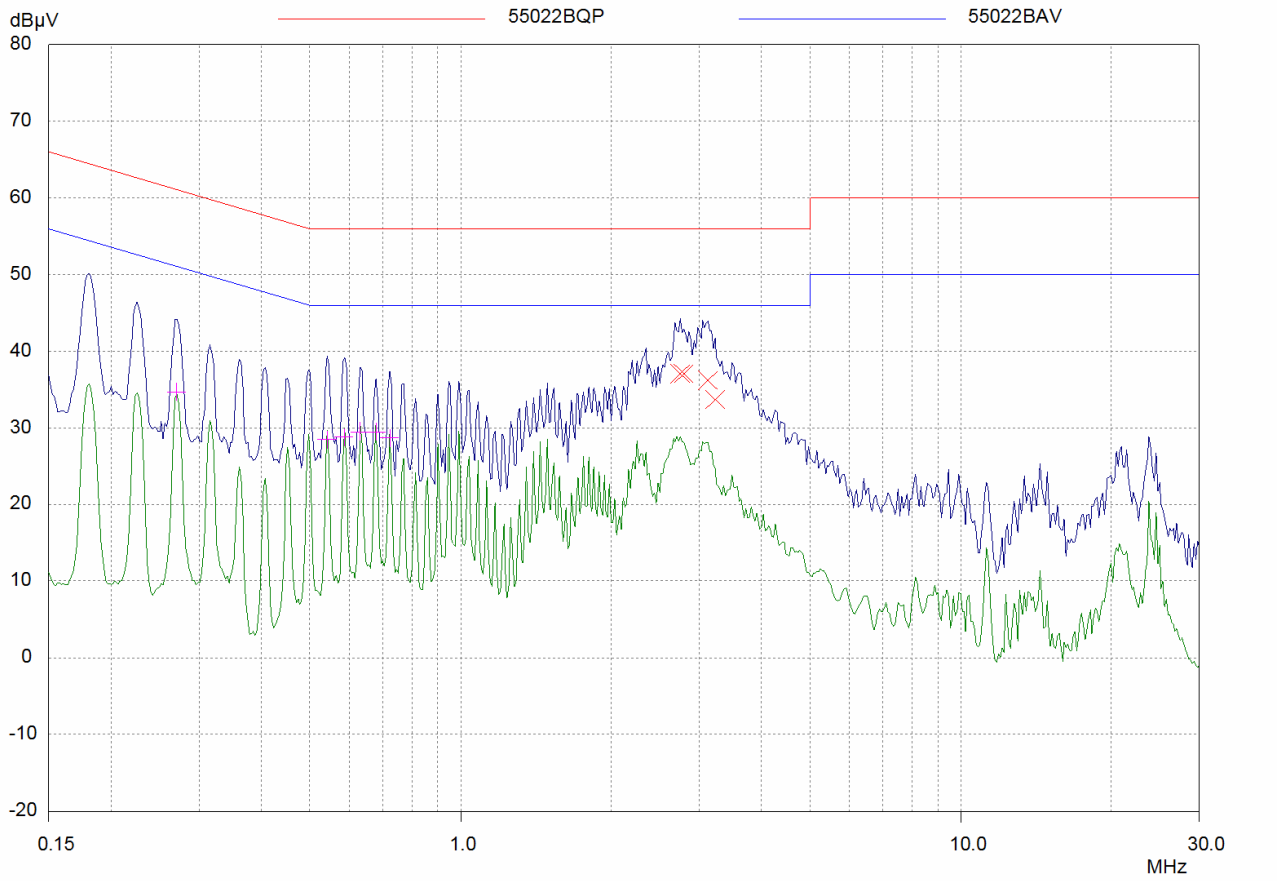

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.74908	37.13	56.00	18.87
2.79322	37.08	56.00	18.92
3.12287	36.23	56.00	19.77
3.224	33.74	56.00	22.26

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.2705	34.72	51.10	16.38
0.54104	28.41	46.00	17.59
0.58592	28.73	46.00	17.27
0.62948	29.52	46.00	16.48
0.67928	29.51	46.00	16.49
0.7208	28.65	46.00	17.35

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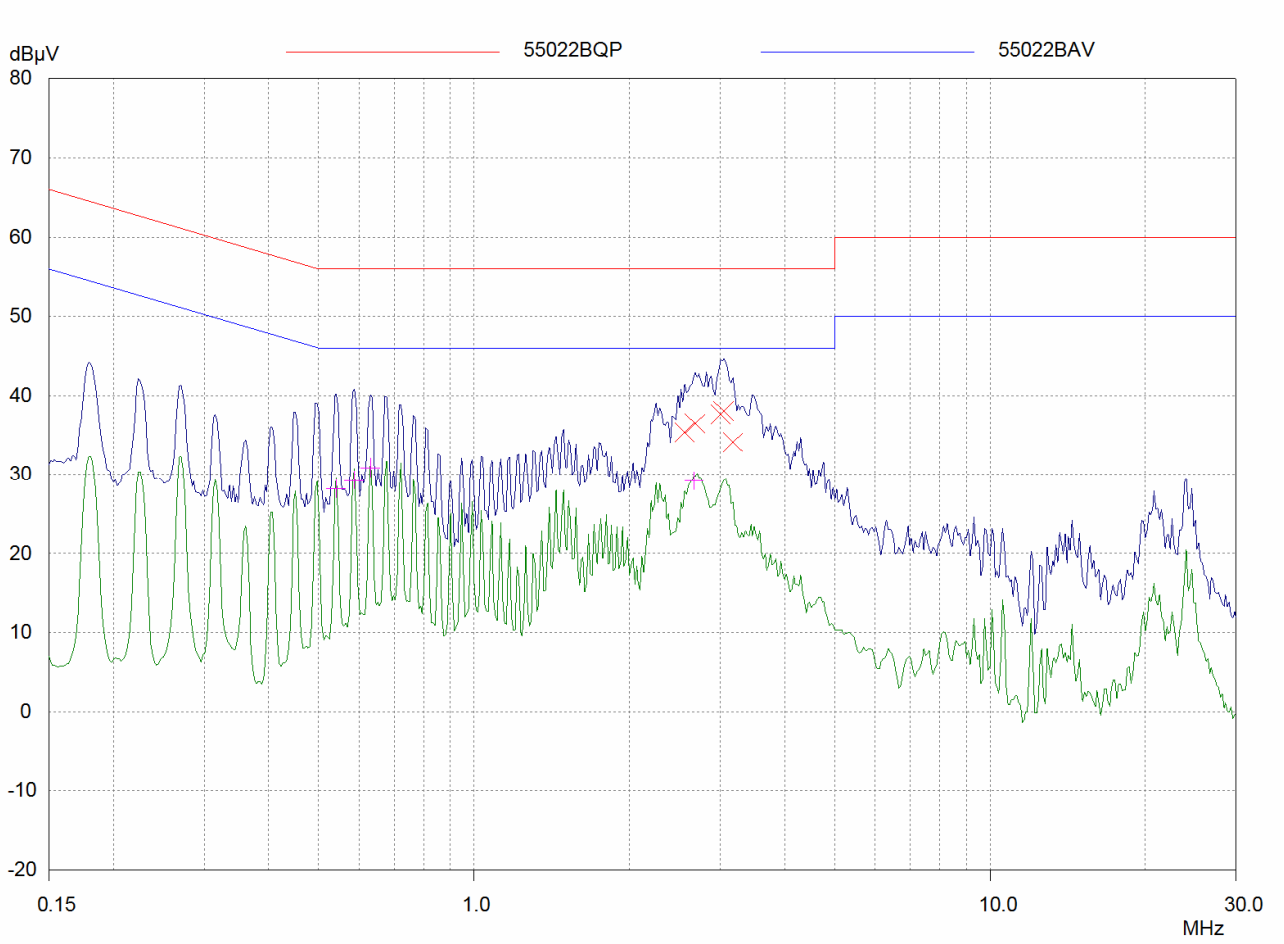

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.55882	35.34	56.00	20.66
2.68413	36.45	56.00	19.55
3.00089	37.62	56.00	18.38
3.0461	38.05	56.00	17.95
3.17303	34.11	56.00	21.89

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.54104	28.21	46.00	17.79
0.58592	29.23	46.00	16.77
0.62948	30.86	46.00	15.14
2.66282	29.20	46.00	16.80

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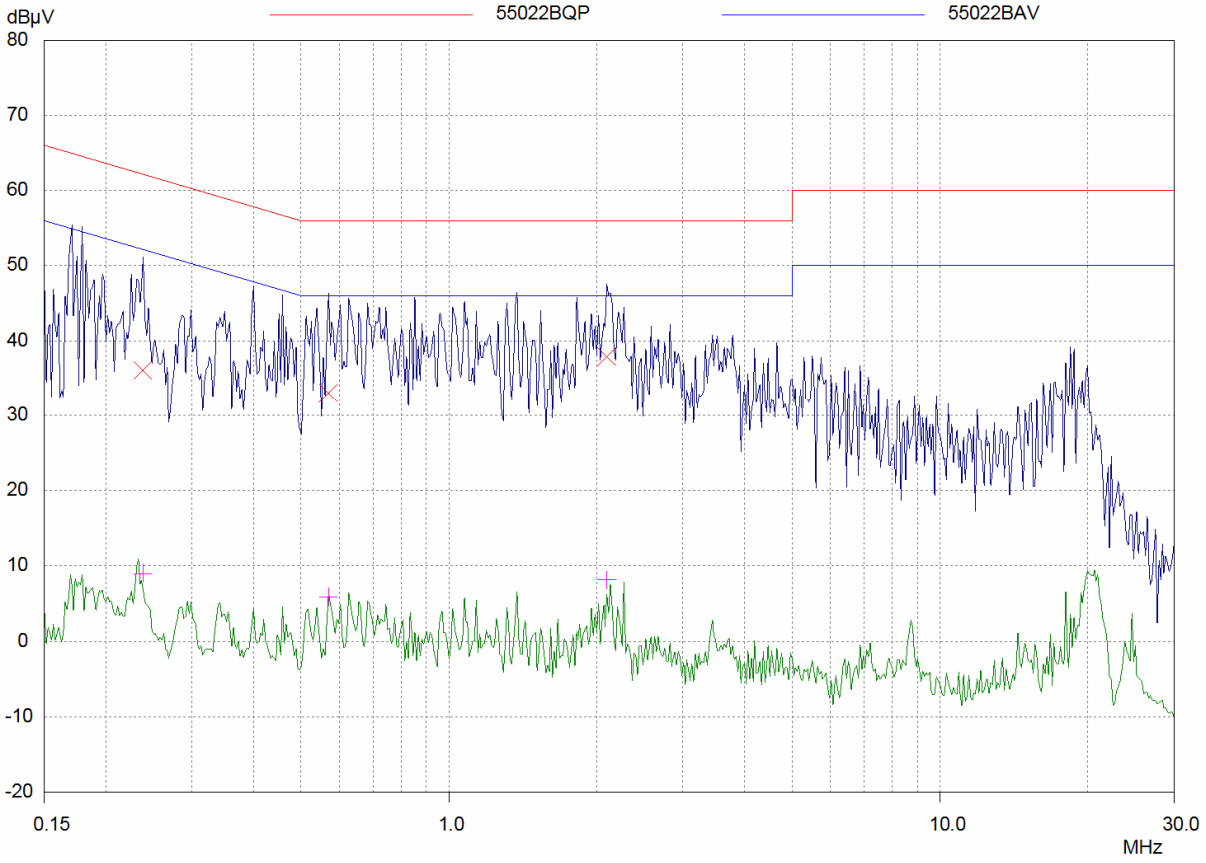
L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.23812	36.09	62.16	26.07
0.56754	32.94	56.00	23.06
2.09685	37.89	56.00	18.11

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.23812	8.99	52.16	43.17
0.56754	5.89	46.00	40.11
2.09685	8.09	46.00	37.91

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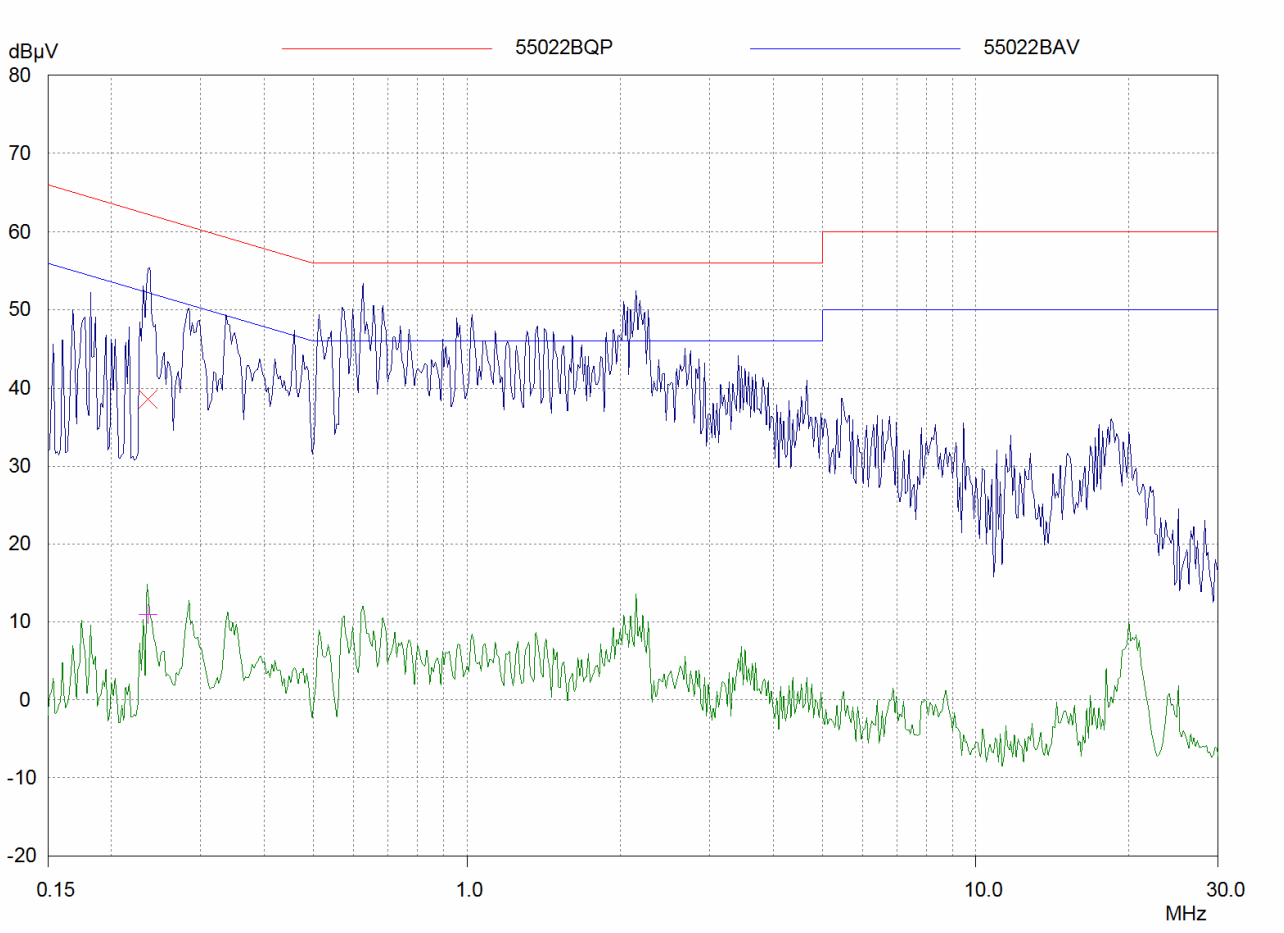

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.23623	38.68	62.23	23.67

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.23623	10.95	52.23	41.28

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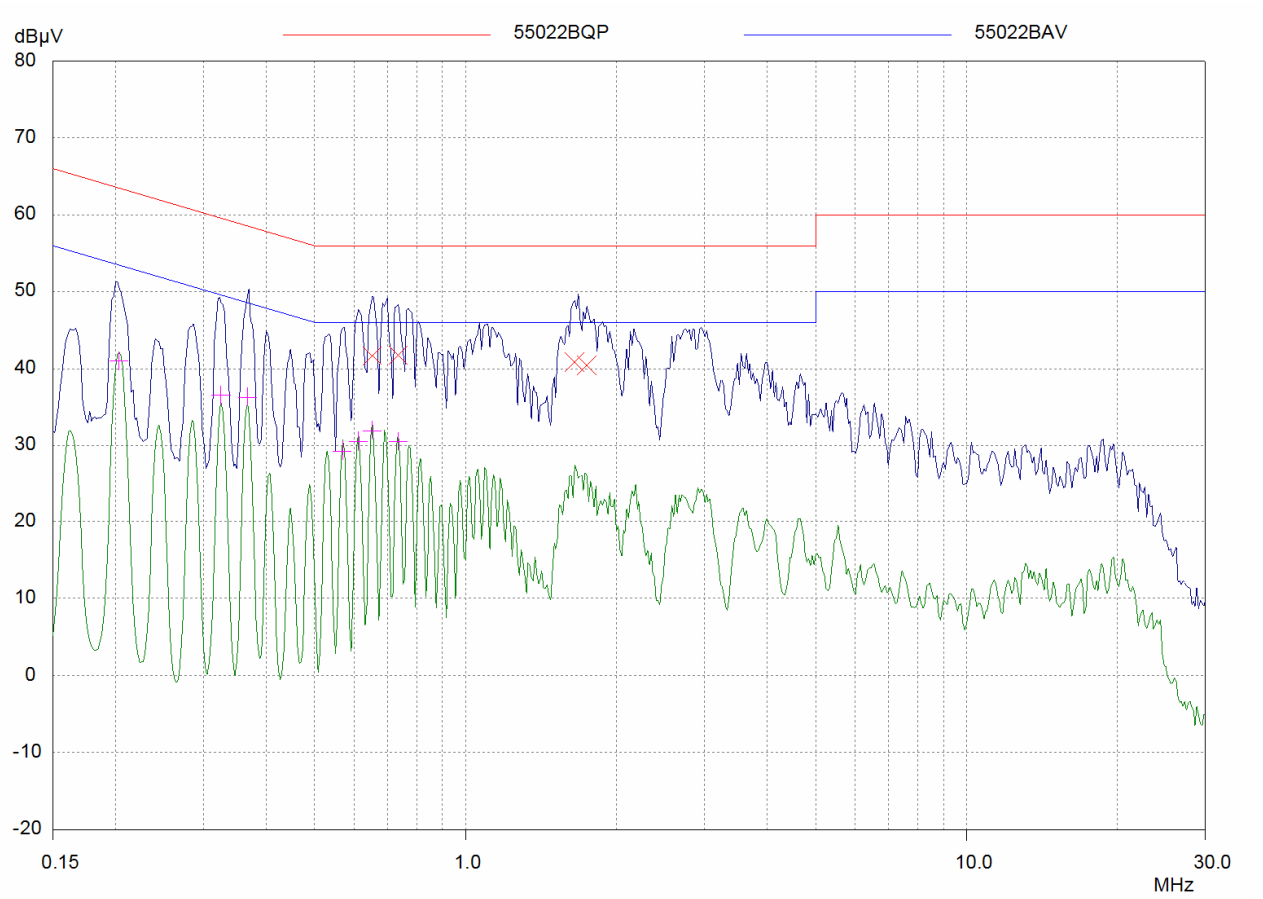
L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.64587	41.65	56.00	14.35
0.73238	41.73	56.00	14.27
1.65086	40.83	56.00	15.17
1.74556	40.42	56.00	15.58

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.20304	40.99	53.49	12.50
0.3249	36.50	49.58	13.08
0.36615	36.21	48.59	12.38
0.56754	29.23	46.00	16.77
0.60974	30.56	46.00	15.44
0.64587	31.90	46.00	14.10
0.73238	30.54	46.00	15.46

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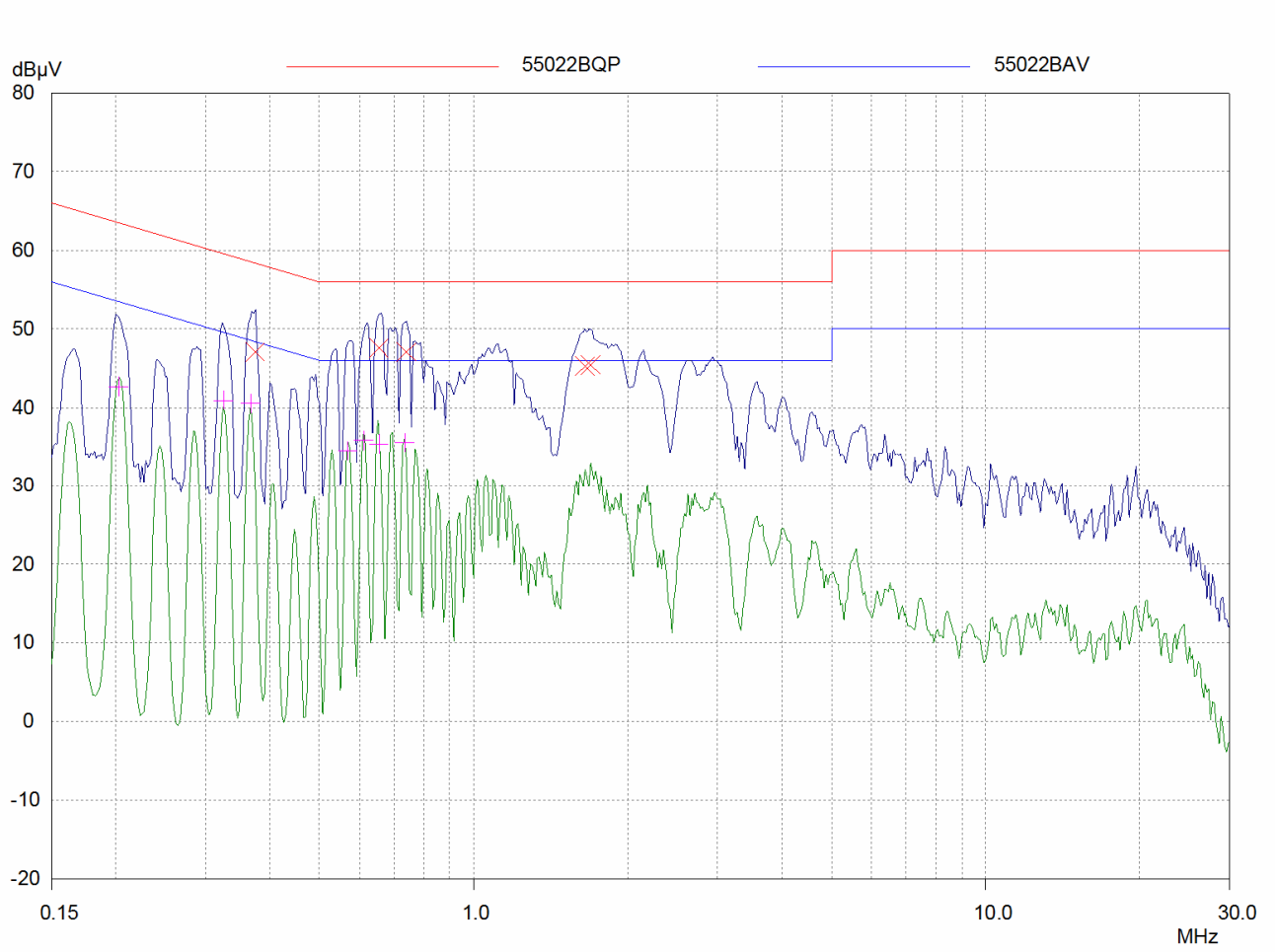

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.37501	47.05	58.39	11.34
0.85507	47.56	56.00	8.44
0.73824	47.06	56.00	8.94
1.65086	45.26	56.00	10.74
1.5906	45.43	56.00	10.57

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.20904	42.64	53.49	10.85
0.3249	40.92	49.56	8.66
0.38615	40.47	48.59	8.12
0.56754	34.51	46.00	11.49
0.60974	35.79	46.00	10.21
0.65507	35.36	46.00	10.64
0.73238	35.52	46.00	10.48

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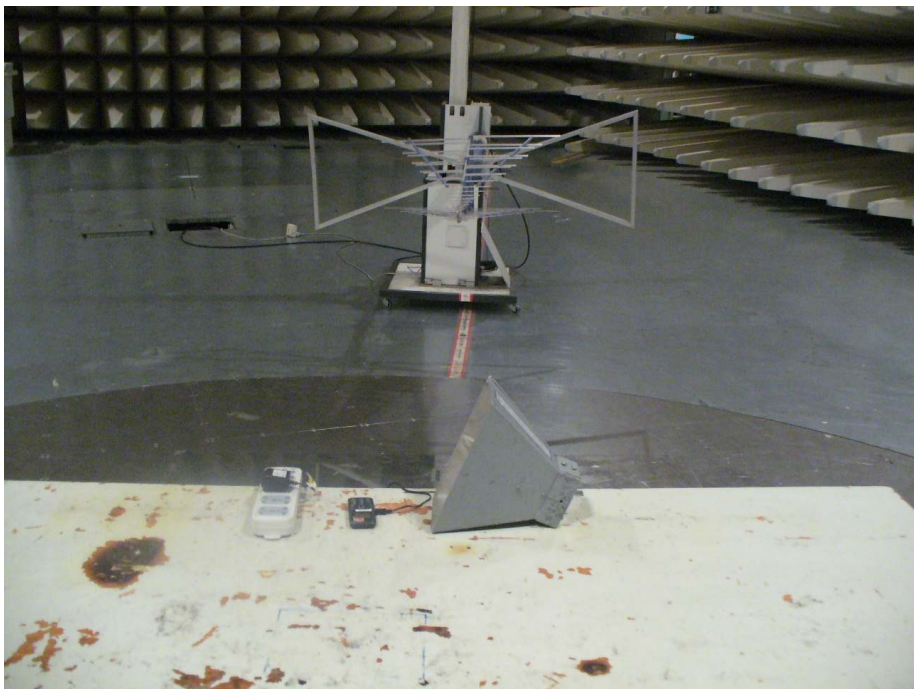
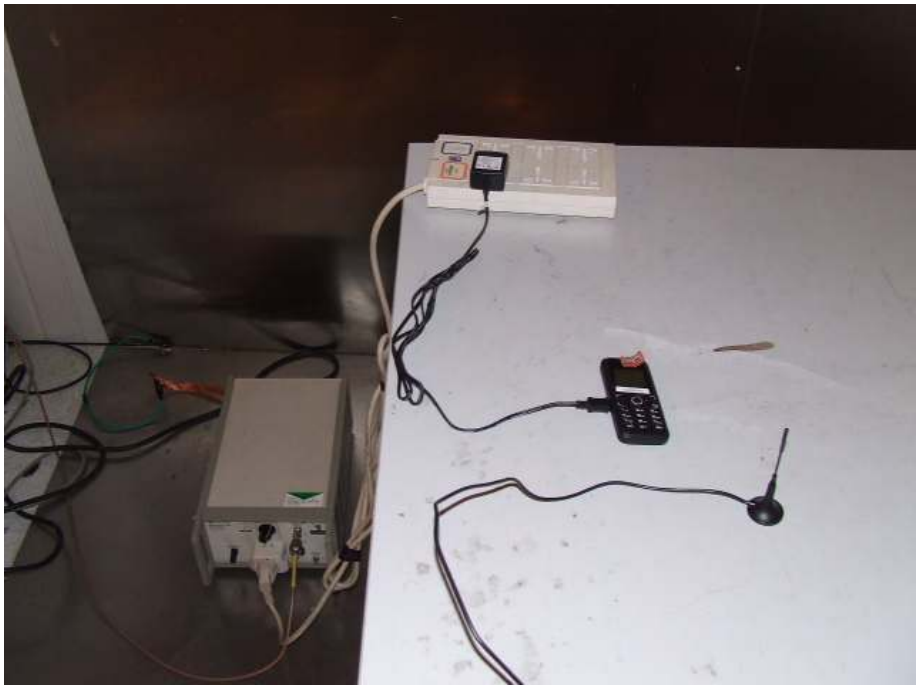
7 EQUIPMENT UNDER TEST PICTURES

7.1.1 Radiated Emission Test Setup



7.1.2 Conductet Emission Test Setup



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7.1.3 EUT Constructional Details

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