

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

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EMC TEST REPORT

Application No.: SHEMO080700004IT
Applicant: TCT Mobile Suzhou Limited

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: U81 FMA
Market Name: OT-S121A
Standards: CFR 47 part 2: 2004,
CFR 47 Part 15: 2005,
ANSI C63.4: 2003

Date of Receipt: July 9, 2008
Date of Test: July 10, 2008 to July 20, 2008
Date of Issue: July 24, 2008

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



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



San Yuan
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.
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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: TCT Mobile Suzhou Limited
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.: U81 FMA
Marketing Name: OT-S121A
Frequency Bands: GSM850/PCS1900
Power Supply: AC to DC charger (Model No.: T50002684AGAA Input: AC 100V-240V~, 50/60Hz 150mA Output:DC 5.0V, 500mA)
Manufactures: Tenpao
Power cord: 2m
Battery: DC 3.7V / 670mAh
P/N: CAB2001010C1
Manufacturers: BYD
Earphone: Model No.: CCA2005000E0(ICS03)

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	2008-06-17	2009-06-16
2	BROADBAND ANTENNA	R&S	HL 562	100019	2008-06-17	2009-06-16
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	2008-6-29	2009-6-28
2	Line impedance stabilization network	ETS	3816/2	00034161	2008-6-29	2009-6-28

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	2008-07-23	2009-07-22

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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:	July 12, 2008 to July 18, 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.

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.

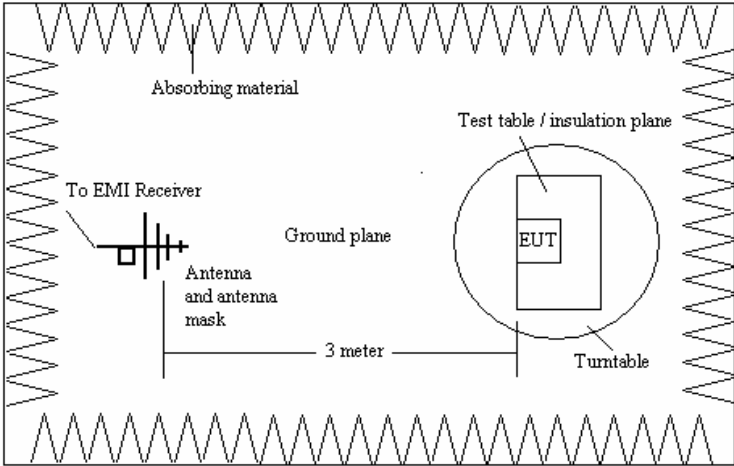
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6.1.2 Test setup:



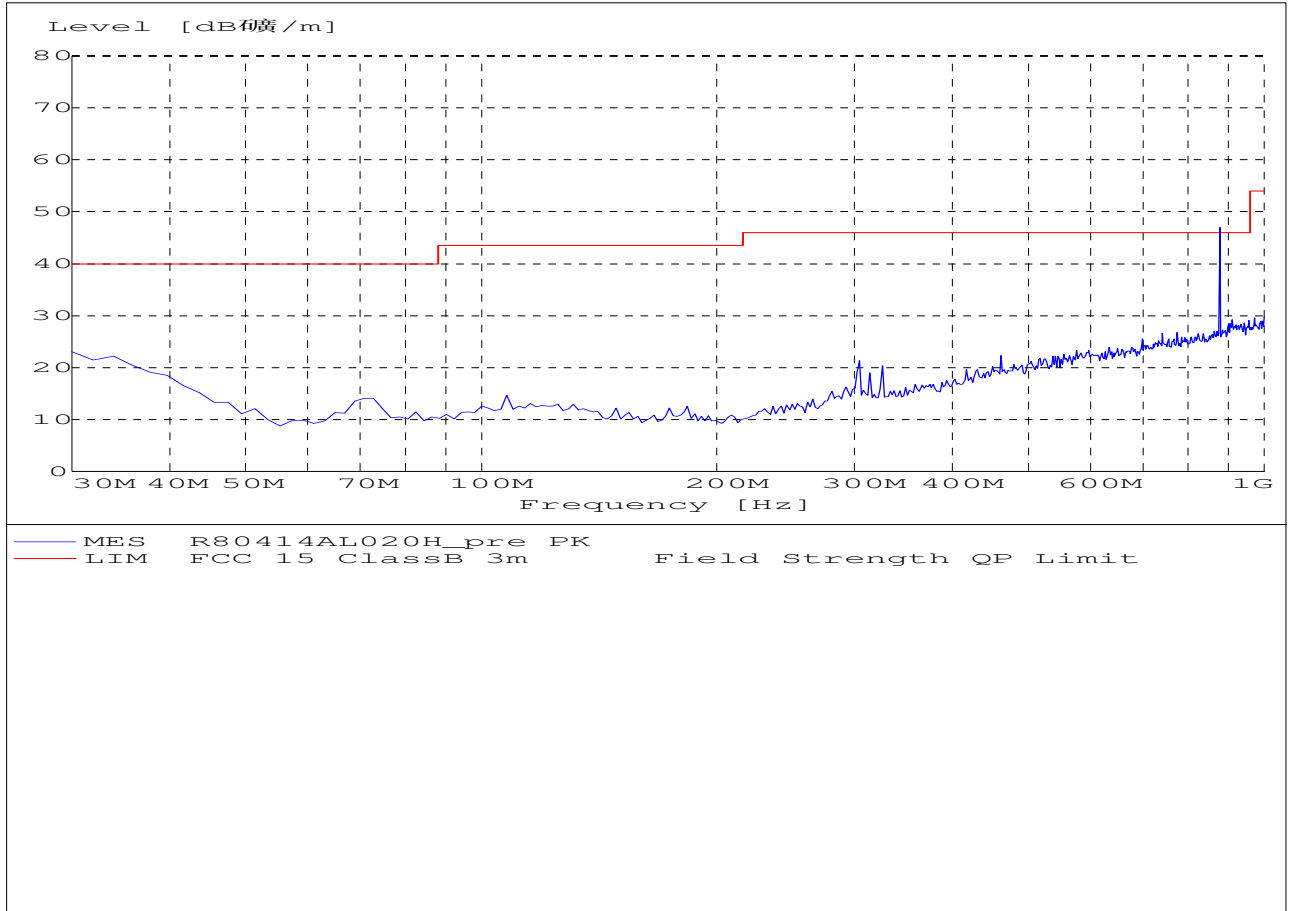
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GSM 850 idle mode: (connected with T50002684AGAA power adapter of Tenpao)
Horizontal:



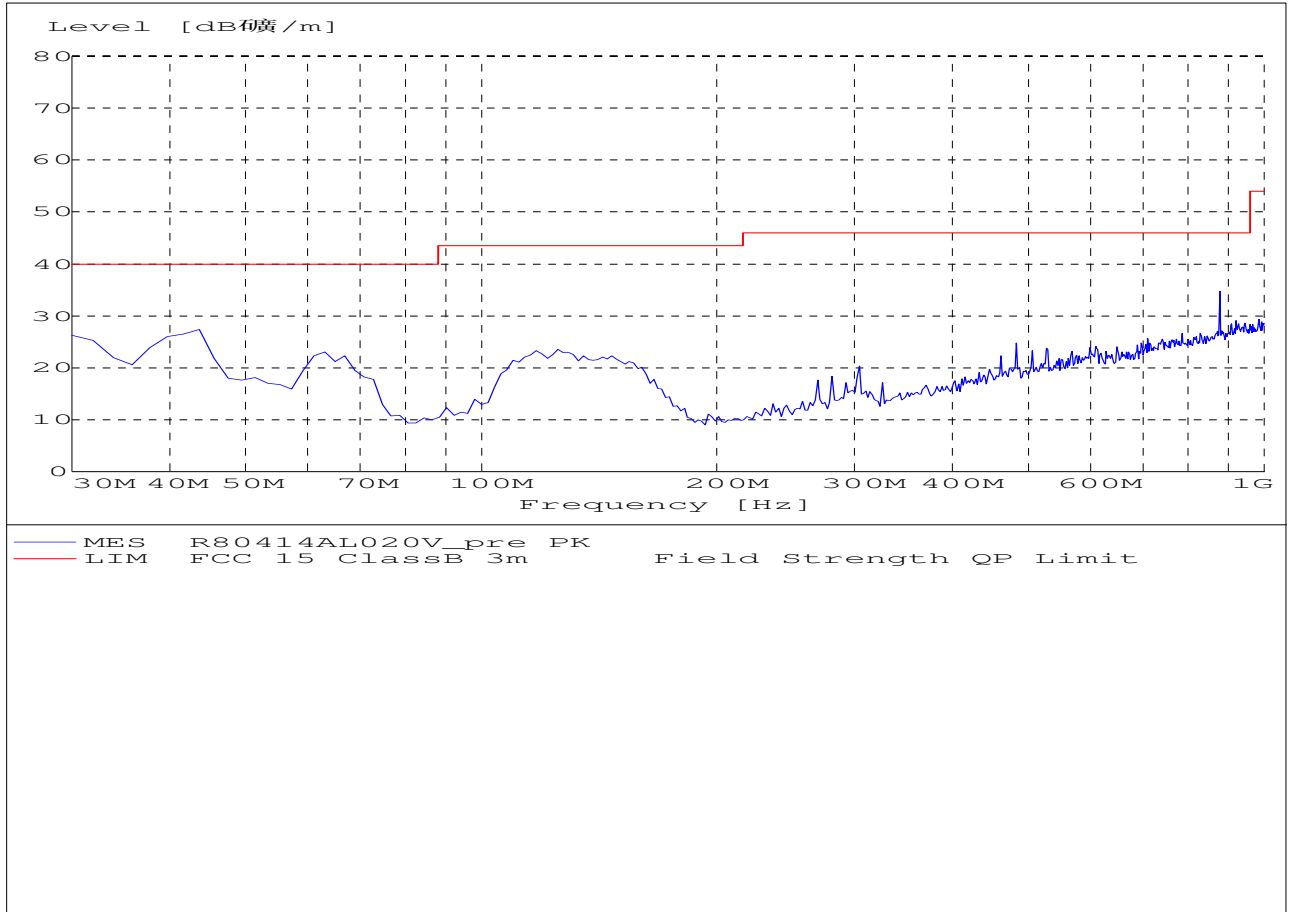
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Vertical:



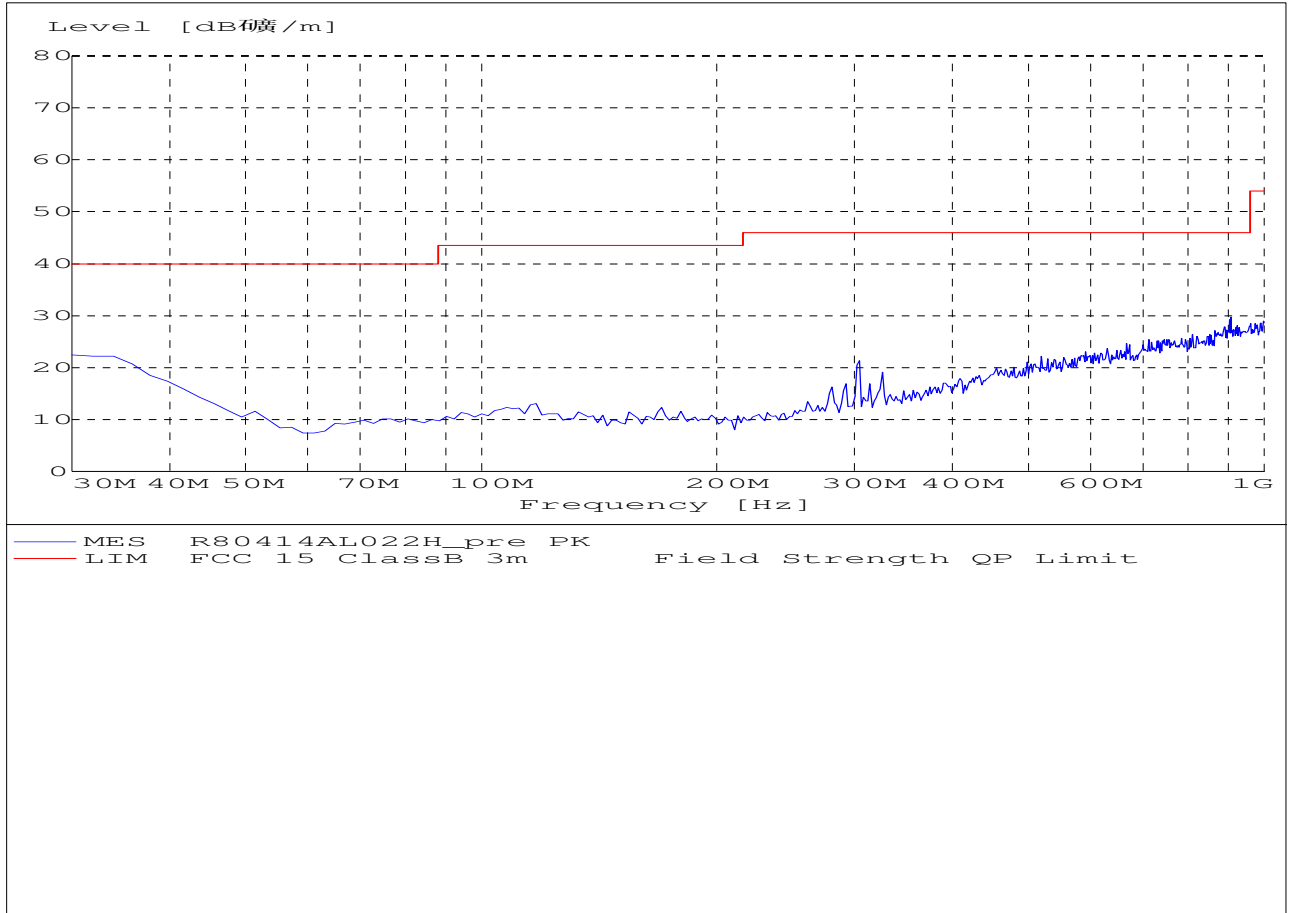
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PCS 1900 idle mode: (connected with T50002684AGAA power adapter of Tenpao)
Horizontal:



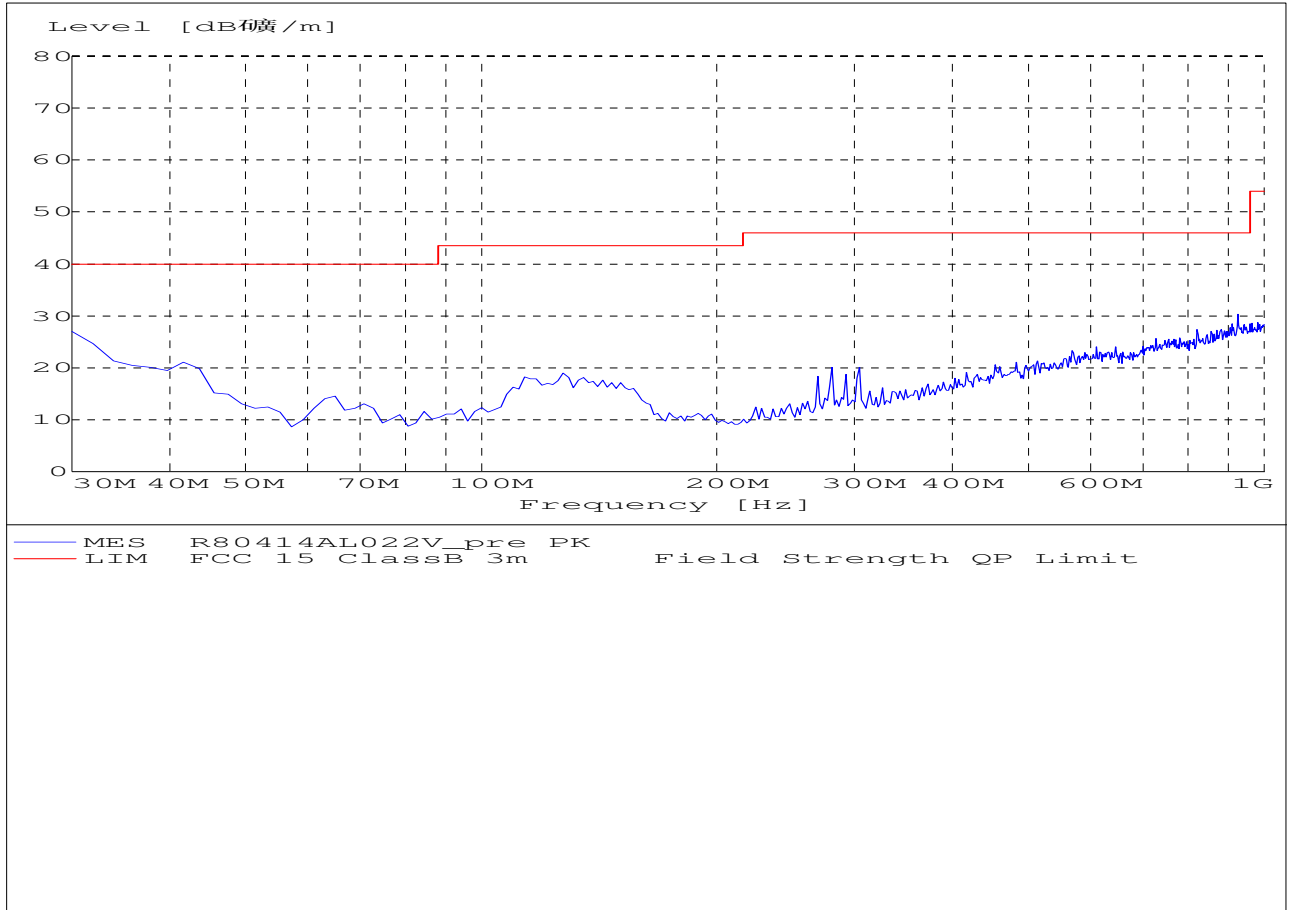
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Vertical:



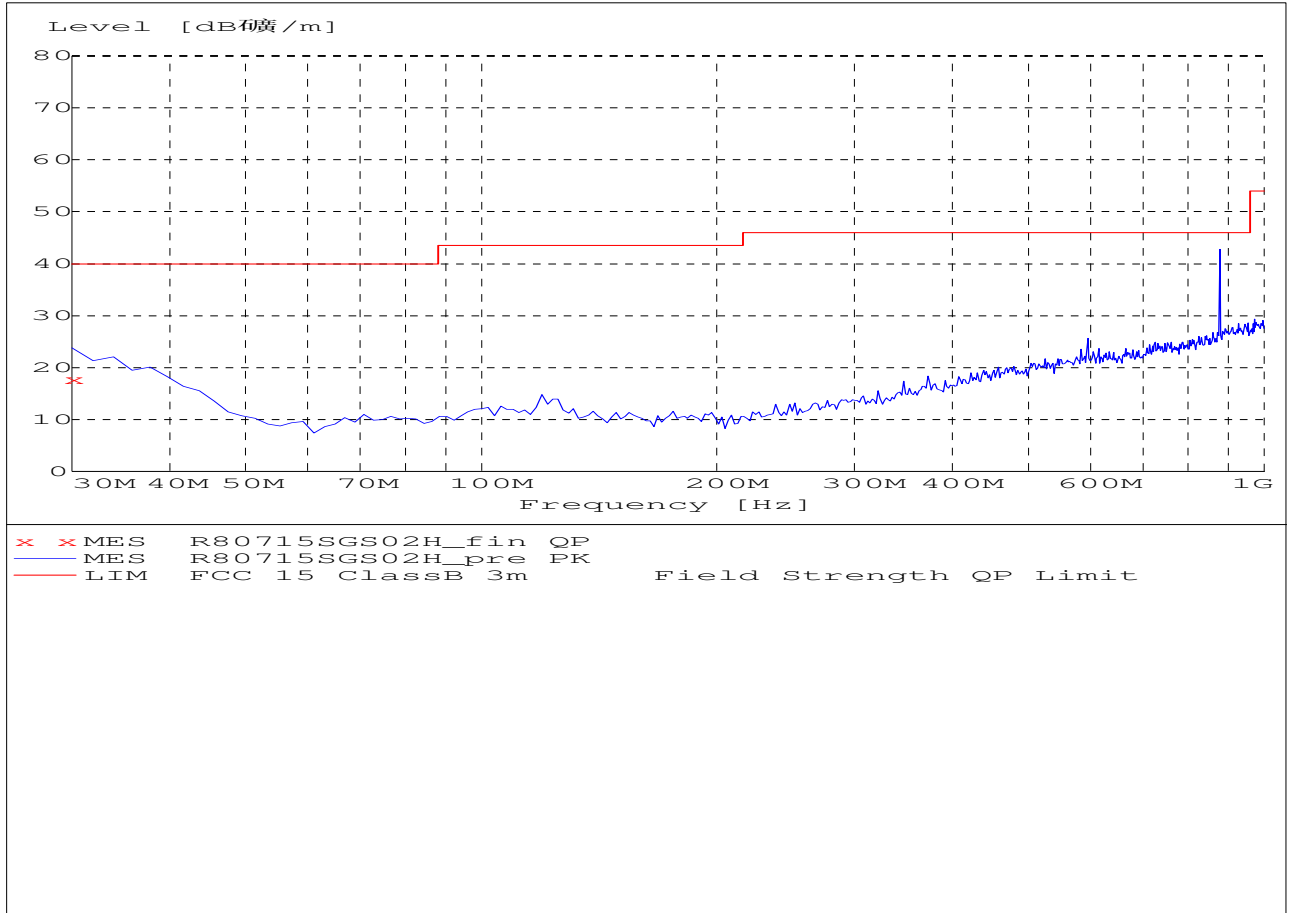
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GSM 850 idle mode: (connected with CCA2005000E0(ICS03) Earphone)
Horizontal:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Limit
MHz	dBµV/m	cm	deg		dBµV/m	dB
30.000000	17.56	300.0	270.00	HORIZONTAL	40.00	22.44

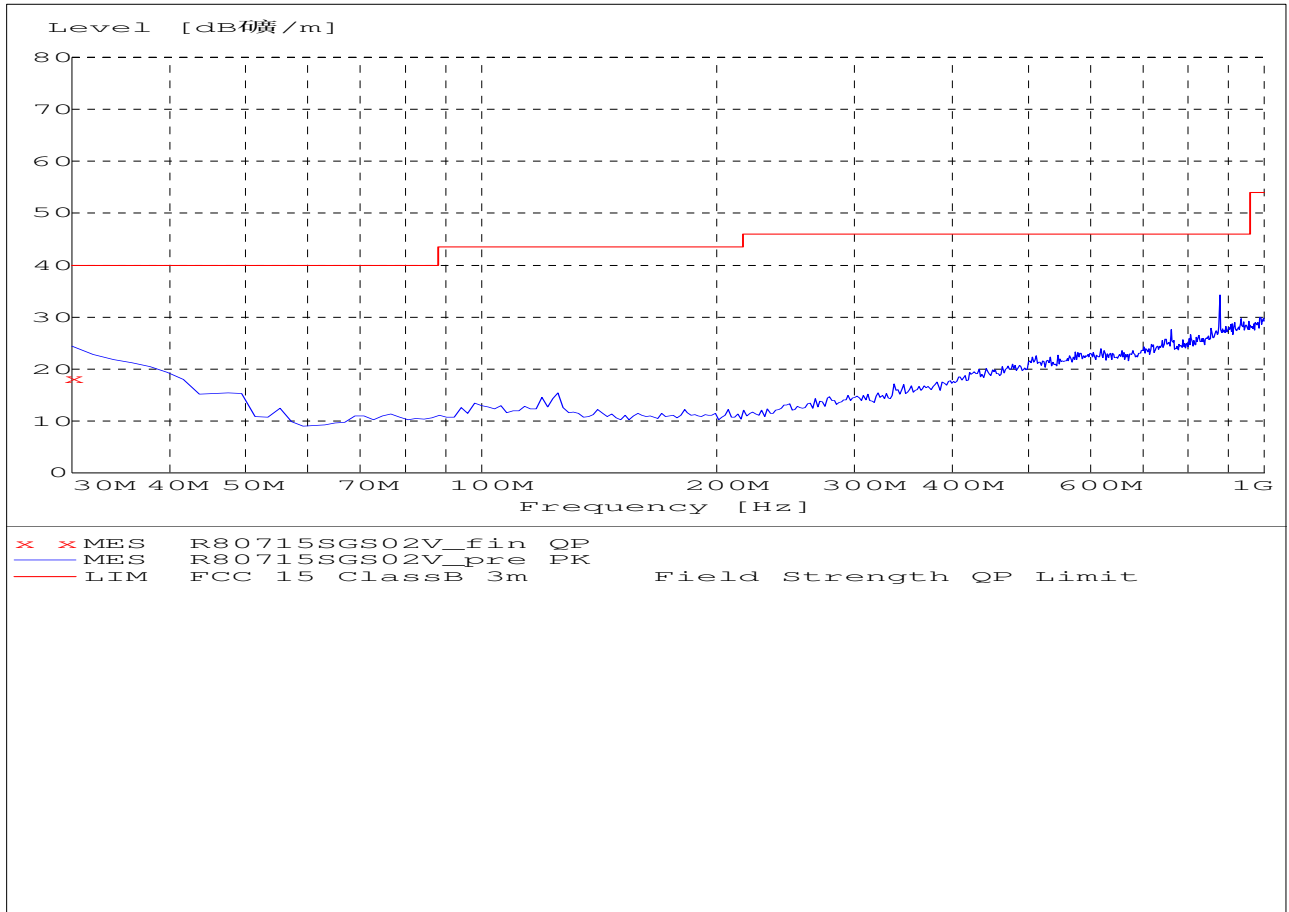
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Vertical:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBµV/m	cm	deg		dBµV/m	dB
30.000000	18.21	100.0	45.00	VERTICAL	40.00	21.79

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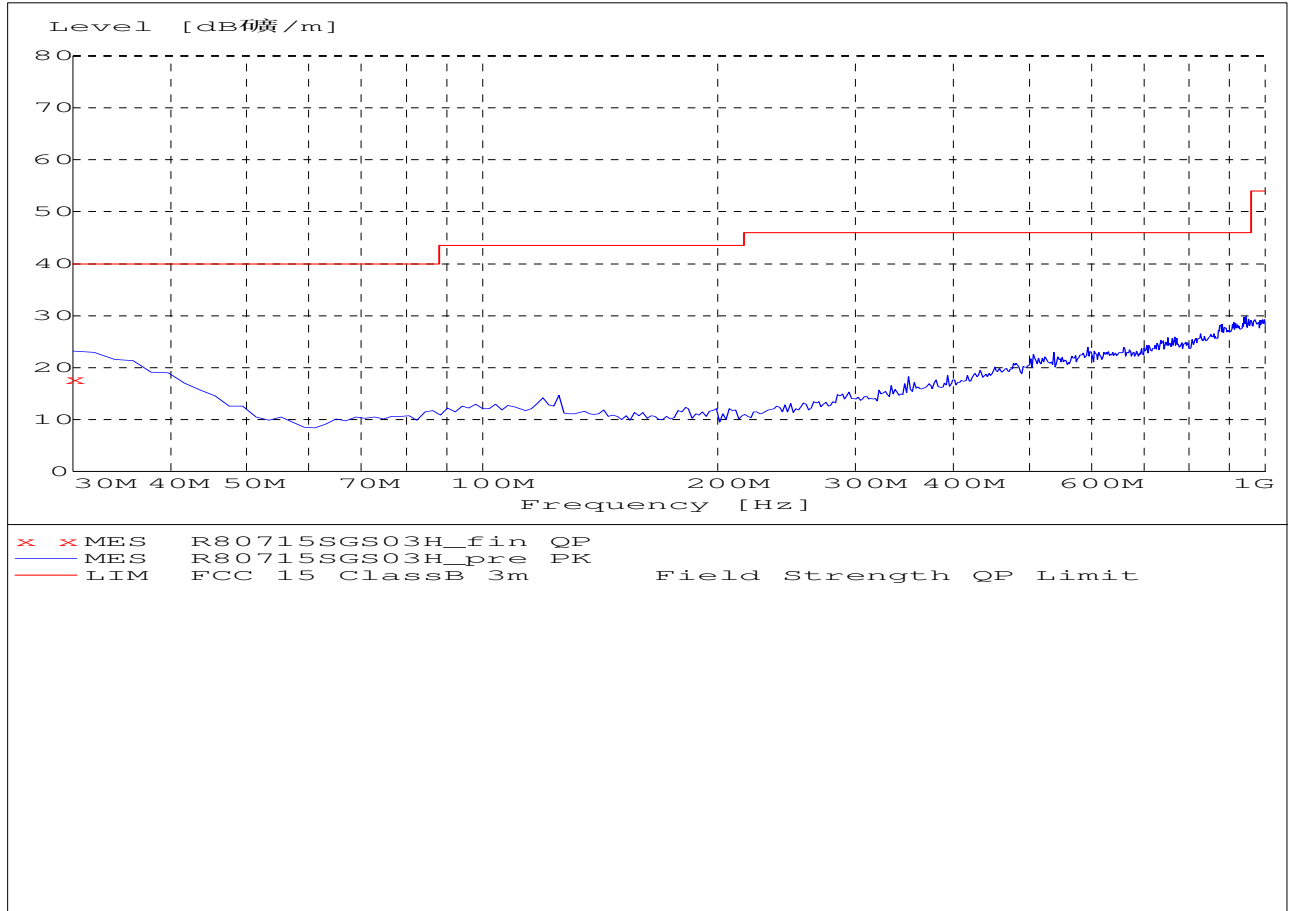
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PCS 1900 idle mode: (connected with CCA2005000E0(ICS03) Earphone)

Horizontal:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBµV/m	cm	deg		dBµV/m	dB
30.000000	17.78	0.0	0.00	HORIZONTAL	40.00	22.22

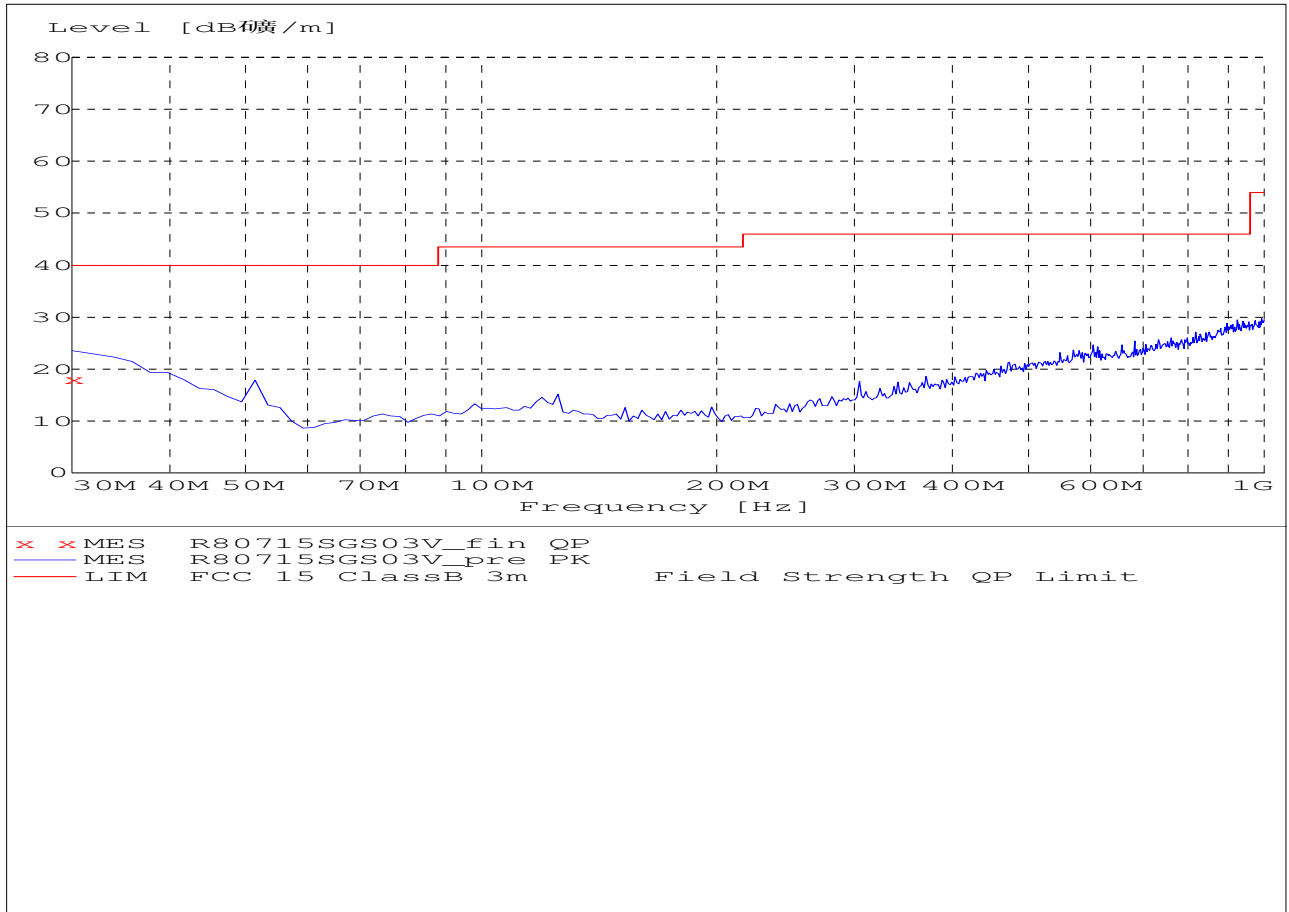
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
30.000000	17.98	100.0	45.00	VERTICAL	40.00	22.02

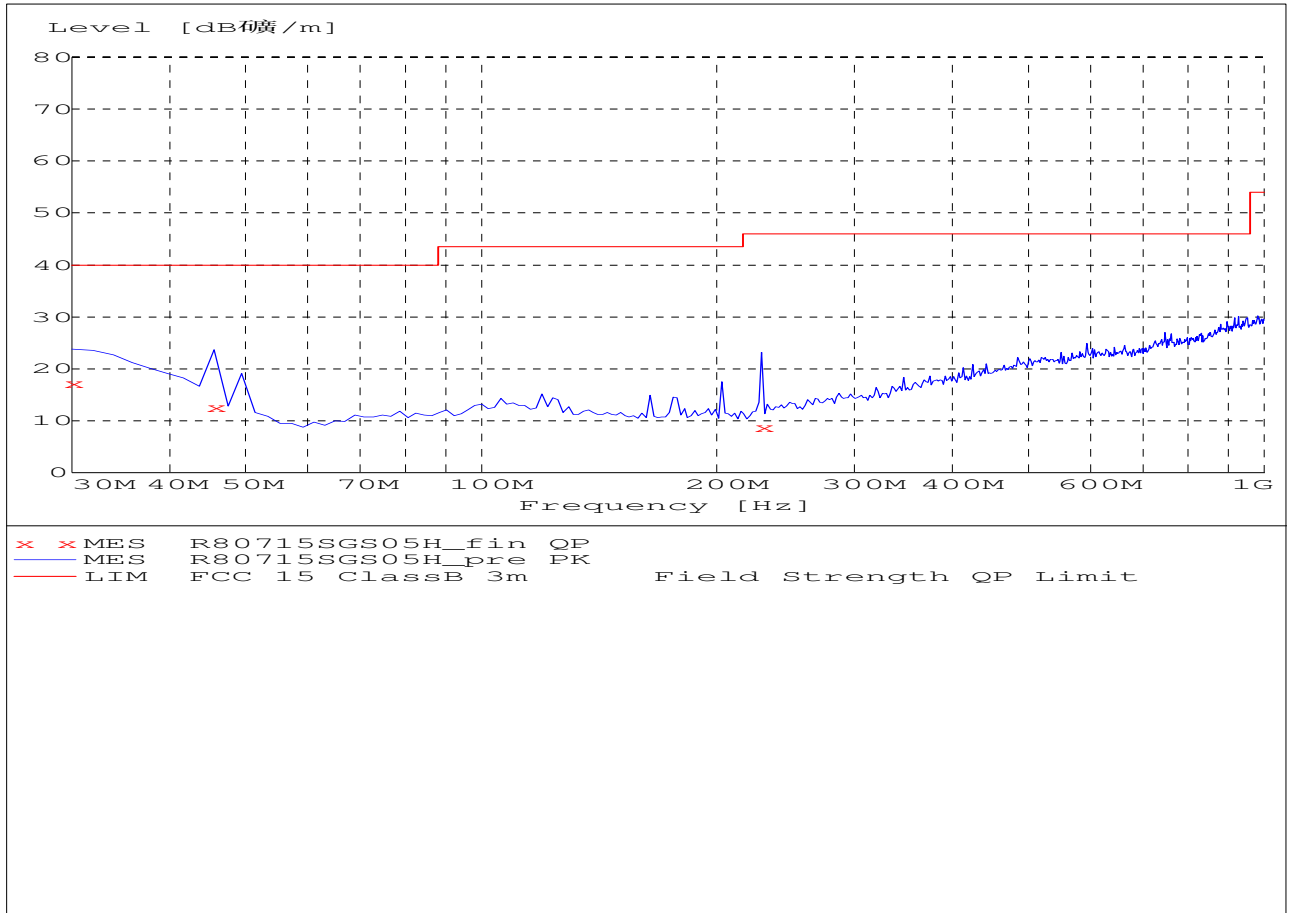
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FM Mode:
Horizontal:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
30.000000	17.20	300.0	90.00	HORIZONTAL	40.00	22.80
45.551102	12.45	280.0	120.00	HORIZONTAL	40.00	27.55
228.430862	8.56	300.0	270.00	HORIZONTAL	46.02	37.46

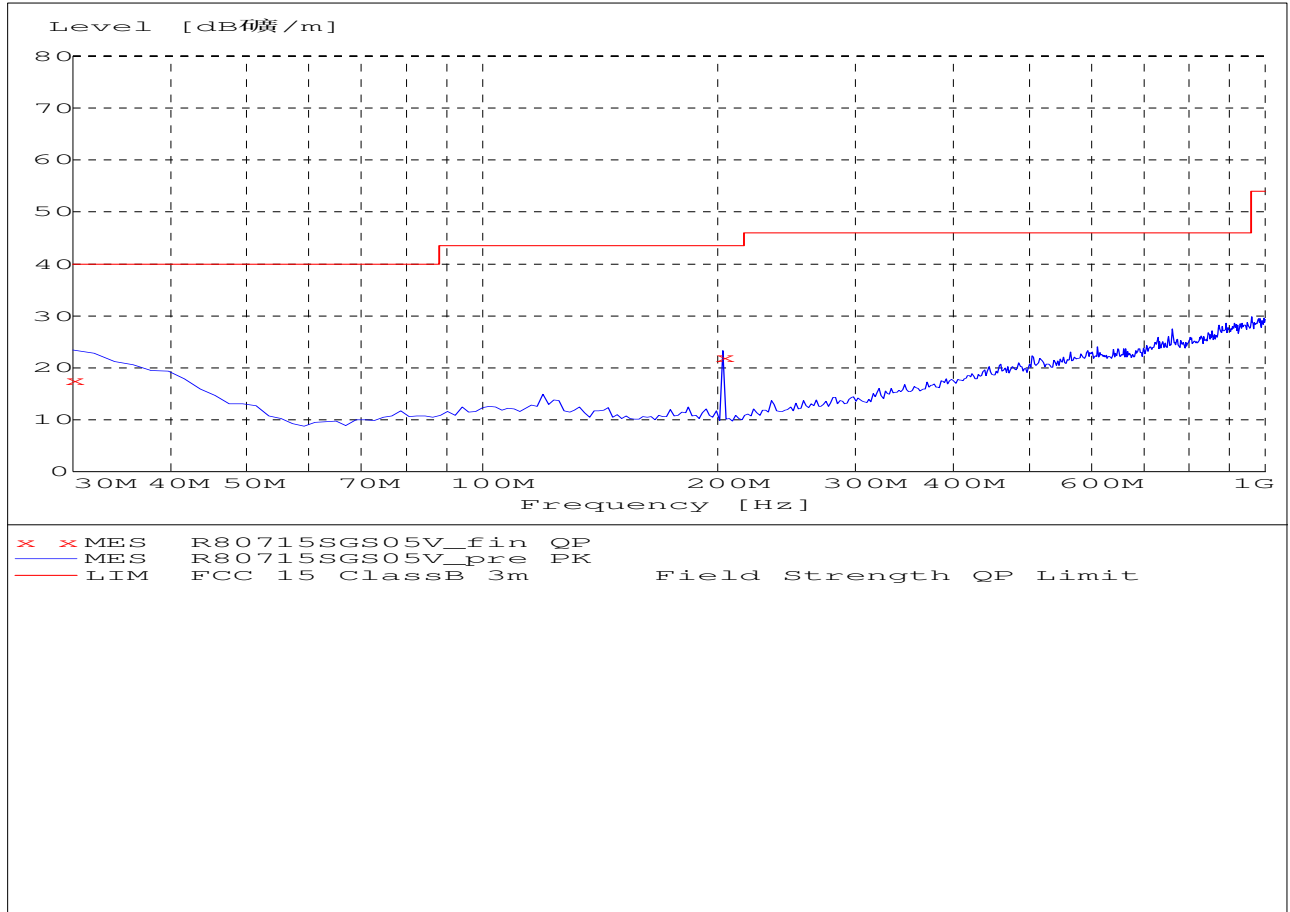
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Vertical:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBµV/m	cm	deg		dBµV/m	dB

30.000000	17.64	100.0	0.00	VERTICAL	40.00	22.36
203.170341	21.95	100.0	0.00	VERTICAL	43.52	21.57

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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:	July 12, 2008 to July 15, 2008
Frequency Range:	150kHz to 30MHz
Class:	N/A
Limit:	66 dB μ V - 56 dB μ V between 150kHz & 500kHz Quasi-peak 56 dB μ V between 0.5MHz & 5MHz Quasi-peak 60 dB μ 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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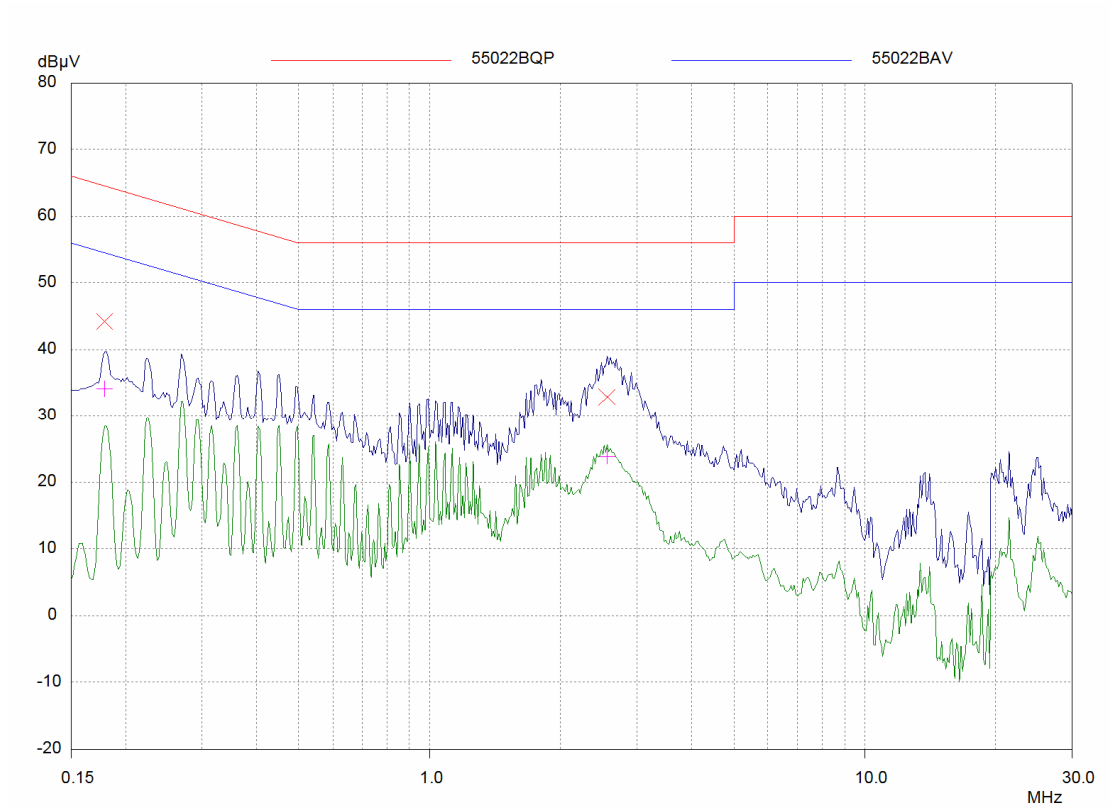
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GSM 850 idle mode: (connected with T50002684AGAA power adapter of Tenpao)

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

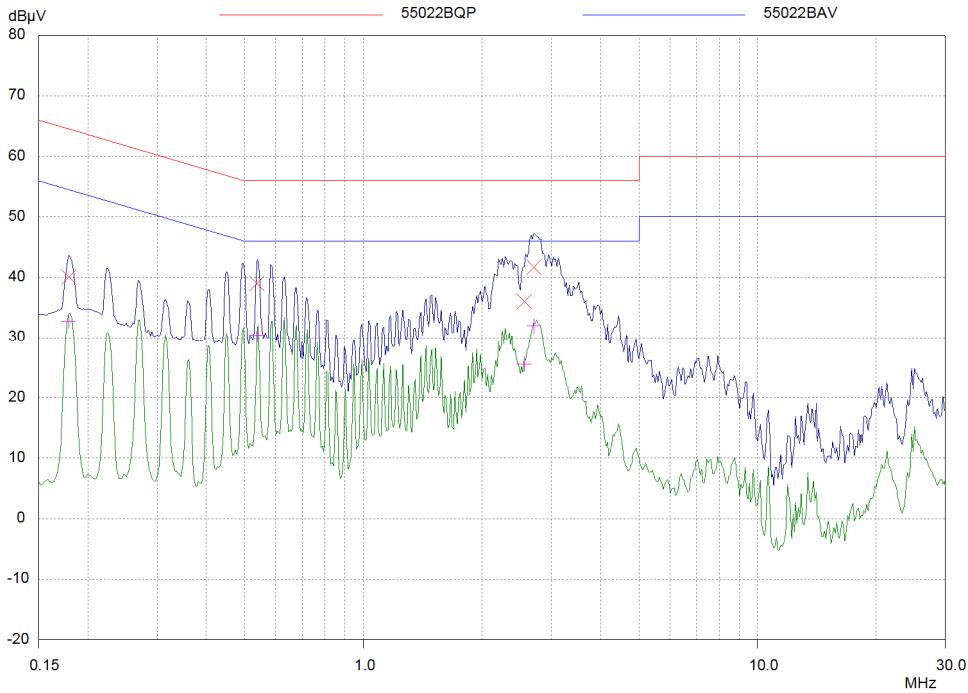
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.17874	40.06	64.54	24.48
0.53675	38.95	56.00	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 Delta 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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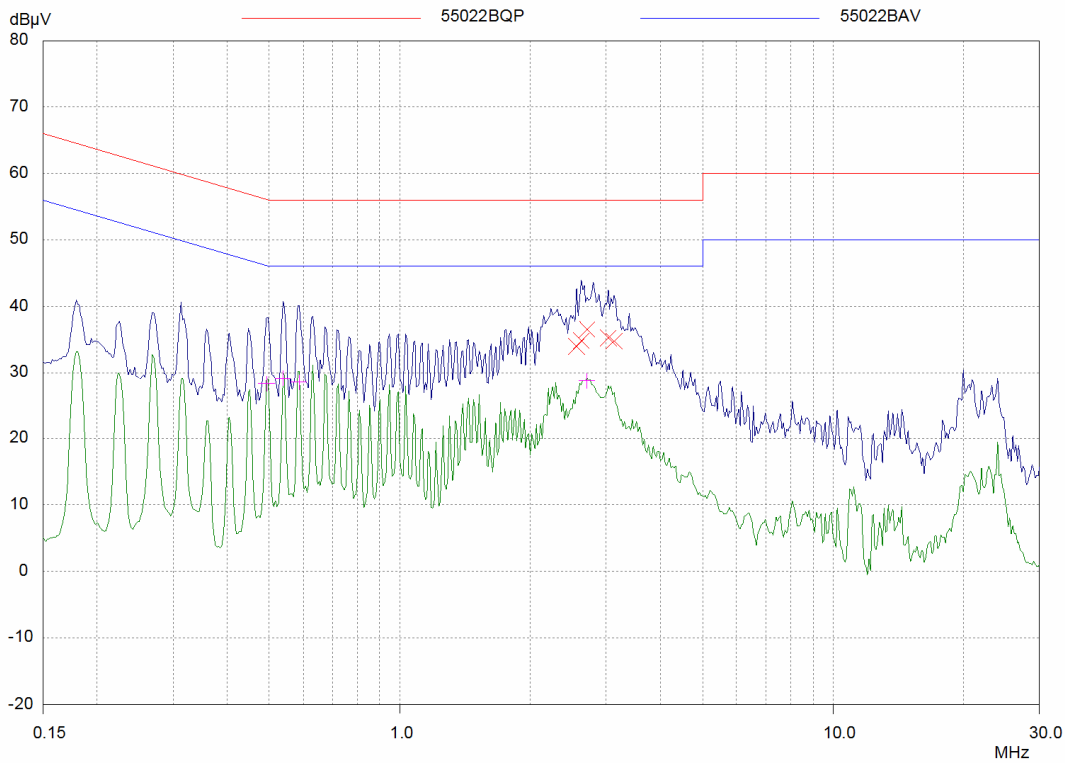
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GSM 850 communication mode: (connected with T50002684AGAA power adapter of Tenpao)

L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.55882	33.98	56.00	22.02
2.62073	34.79	56.00	21.21
2.7056	36.52	56.00	19.48
3.0249	35.18	56.00	20.82
3.12287	34.76	56.00	21.24

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.49171	28.22	46.14	17.92
0.53675	29.01	46.00	16.99
0.58592	28.40	46.00	17.60
2.7056	28.66	46.00	17.34

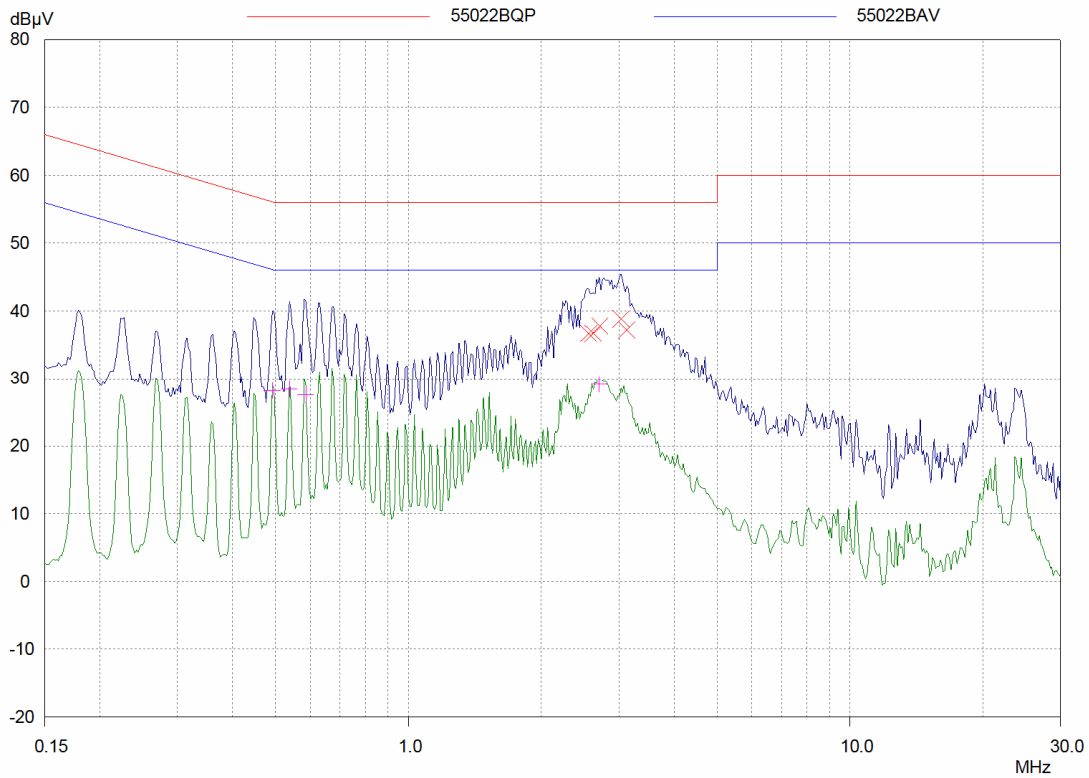
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N Line:



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
2.7056	37.82	56.00	18.18
3.0249	38.86	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	28.36	46.00	17.64
0.58592	27.58	46.00	18.42
2.7056	29.12	46.00	16.88

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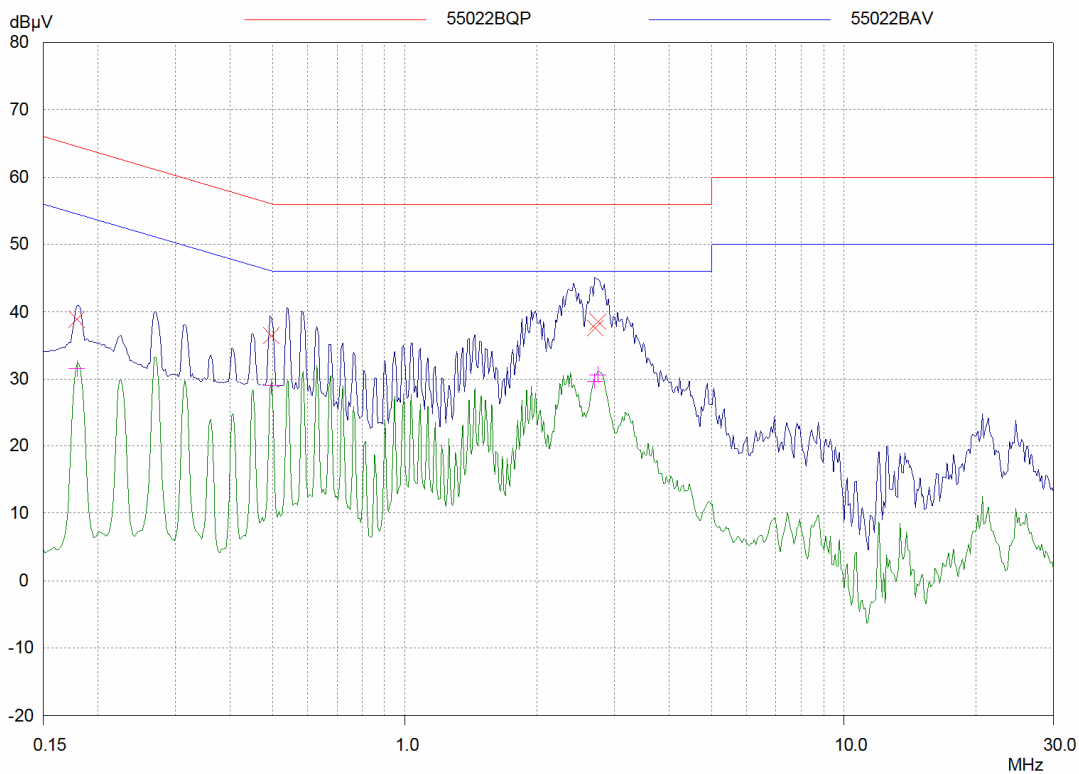
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PCS 1900 idle mode: (connected with T50002684AGAA power adapter of Tenpao)

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.17874	38.86	64.54	25.68
0.49564	36.43	56.07	19.64
2.7056	37.56	56.00	18.44
2.74906	38.46	56.00	17.54

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.17874	31.54	54.54	23.00
0.49564	28.89	46.07	17.18
2.7056	29.68	46.00	16.32
2.74906	30.64	46.00	15.36

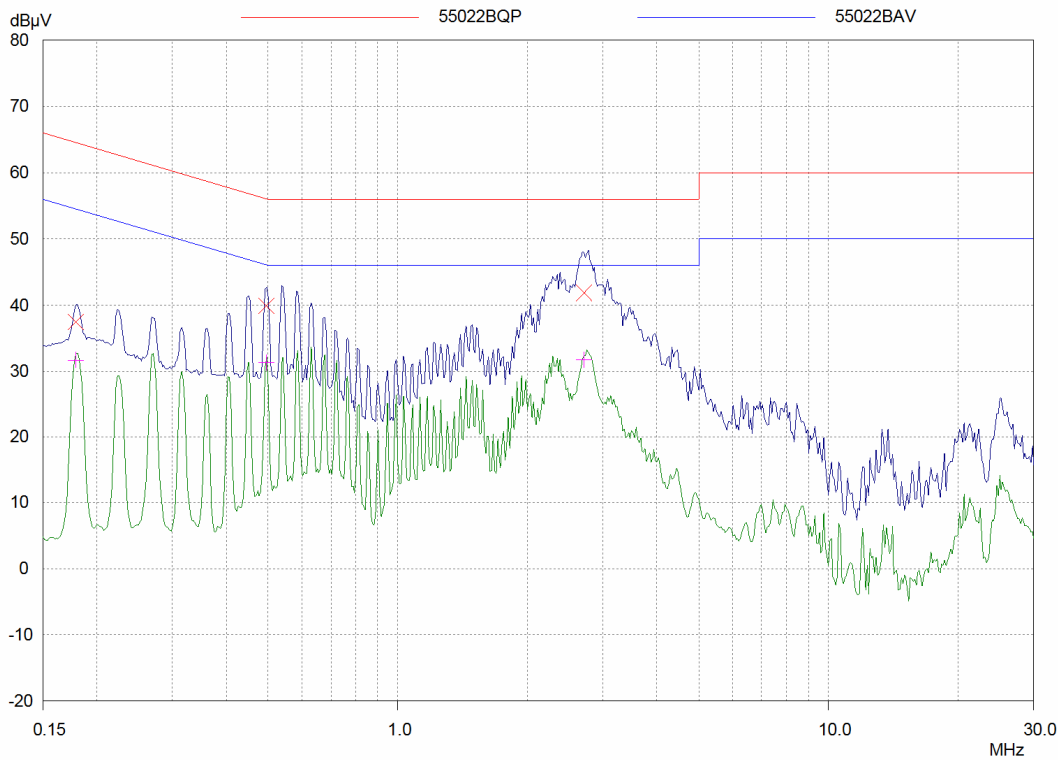
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N Line:



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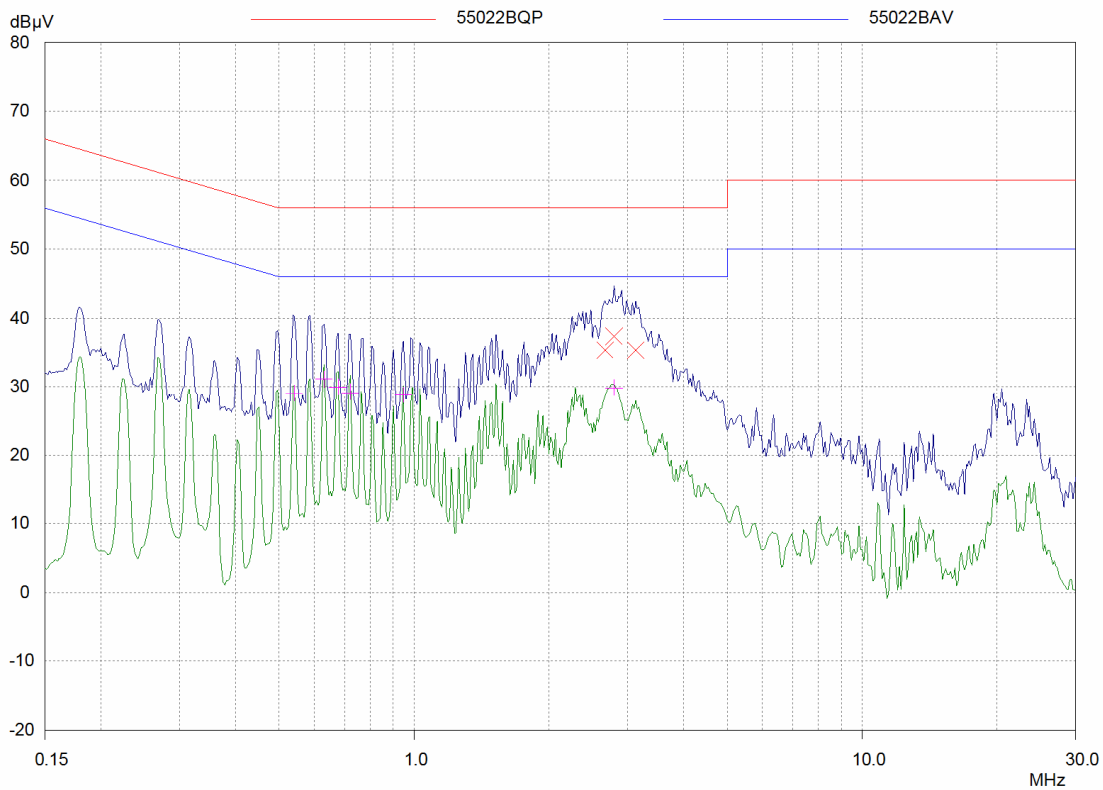
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PCS 1900 communication mode: (connected with T50002684AGAA power adapter of Tenpao)

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	31.08	46.00	14.92
0.67628	29.93	46.00	16.07
0.7208	29.16	46.00	16.84
0.94509	28.80	46.00	17.20
2.79322	29.83	46.00	16.17

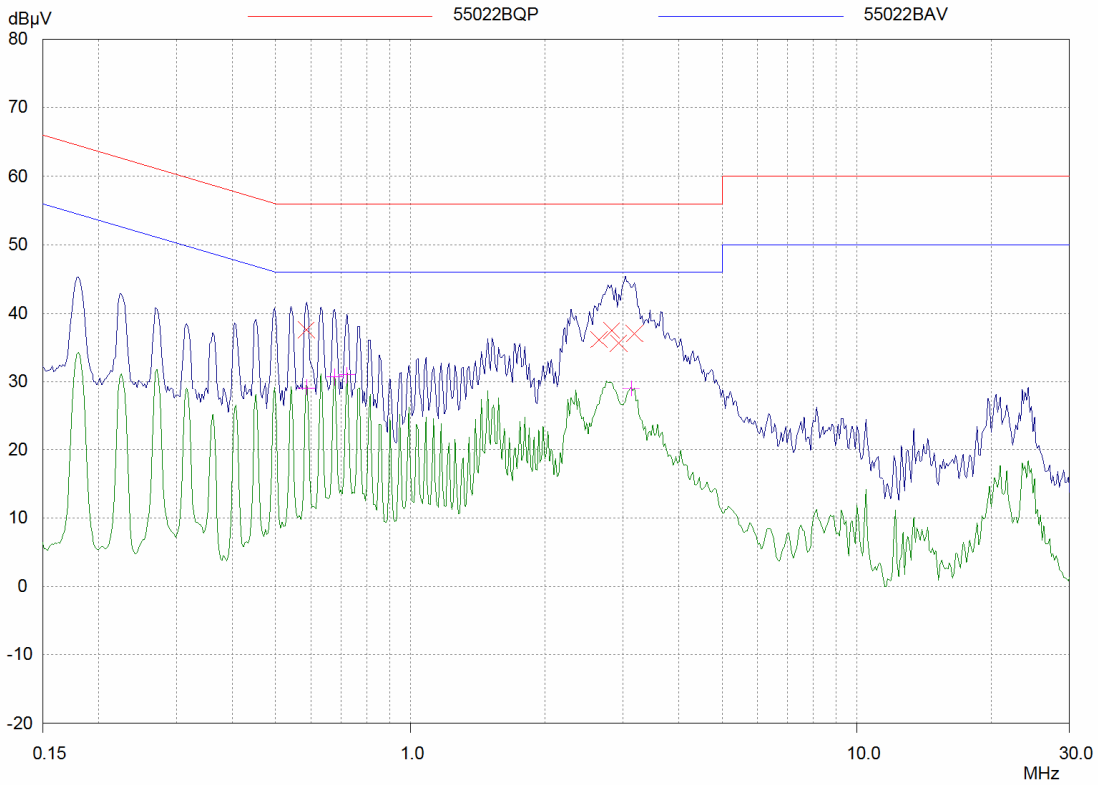
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.58592	37.60	56.00	18.40
2.64169	36.18	56.00	19.82
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
0.58592	29.05	46.00	16.95
0.67628	30.70	46.00	15.30
0.7208	30.99	46.00	15.01
3.12287	28.95	46.00	17.05

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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



7.1.3 EUT Constructional Details



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