

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

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FCC TEST REPORT(DOC)

Application No.: SHEMO061100022IT

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 850/1800/1900 mobile phone with BT

Model No.: K7Sa

Marketing Name: OT-C820a

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: 29 November 2006

Date of Test: 30 November 2006 to 13 December 2006

Date of Issue: 15 December 2006

Test Result :	PASS
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Authorized Signature:



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



Jacky Cao
E&E Project 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: 4/F, No.2966, Jinke Rd, Zhangjiang High-Tech Park, Pudong
Shanghai 201203. P. R. China

4.2 General Description of E.U.T.

EUT Name: GSM 850/1800/1900 mobile phone with BT
Model No.: K7Sa
Marketing Name: OT-C820a
Serial No.: N/A
Test GSM Frequency Bands GSM850/PCS1900

4.3 Details of E.U.T.

Power Supply01: AC to DC charger (Model NO: T5000436AHAA
Input :100-240 Vac, 50/60 Hz, 0.15 A,
Output: 5.0 VDC, 0.4 A)
Manufactures: Tenpao

Power Cord01: 2.0m

Power Supply02: AC to DC charger (Model NO: T5000436AGAA
Input :100-240 Vac, 50/60 Hz, 0.15 A,
Output: 5.0 VDC, 0.4 A)
Manufactures: Tenpao

Power Cord02: 2.0m

Power Supply03: DC charger (Model NO:3DS11023 AAAA
(Cigar lighter charger) Input: 12 - 24VDC, 0.3 A)
Manufactures: Leader

Battery DC 3.7V / 700mAh
modle: T5000554AAAA

Data cable Model NO: T5001431AAAA
Manufacturers: Quancheng

Headset01: Model NO: T5000361AAAA
Manufacturers: Quancheng

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Headset02:	Model NO: T5000805AAAA Manufacturers: Quancheng
USB to 3.5mm Audio Adaptor	Model NO: T5000702AAAA Manufacturers: Quancheng
Micro-SD CARD 2G (with adapter)	Model NO: T5000549AAAA Manufacturers: Sandisk

4.4 Description of Support Units

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

4.5 Standards Applicable for Testing

The customer requested EMC tests for GSM 850/1800/1900 mobile phone with BT
The standards used was CFR 47 part 2: 2004 and CFR 47 part 15: 2005:

Table 1 : Tests Carried Out Under CFR 47 Part 15: 2005 :

Standard	Status
FCC Part 15 Subpart B: 2005 Radiated Emission	√
FCC Part 15 Subpart B: 2005 Conducted Emission	√

× Indicates that the test is not applicable
√ Indicates that the test is applicable

4.6 Test Location

Radiated Emission was performed at:

SIMT EMC Laboratory, 1/F, Building No.1, Agriculture Machinery Materials Company
No.716 Yi shan Road, Shanghai, P.R.China.
Tel: +86 21 64701390 Fax: +86 21 64514252

Conducted Emission was performed at SGS E&E EMC lab

SGS-CSTC EMC Laboratory, No.889 Yishan Road, Shanghai, P.R.China
Tel:+86 21 61402666 Fax: +86 21 54500954

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4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Monitoring of EUT for All Immunity Test

N/A

4.10 Test Confident level

Test Confident level is recognized, certified, or accredited by the following organizations:

NVLAP – Lab Code: 200632-0

SIMT EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST).
NVLAP Code: 200632-0. Effective through December 31, 2004.

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SIMT have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: 1153.

Date of Registration: May 29, 2004. Valid until May 18, 2007

CNAL – LAB Code: L0134

SIMT EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.

FCC – Registration No.: 142171

SIMT EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 142171, December 9, 2002.

With the above and NVLAP, SIMT is an authorized test laboratory for the DoC process.

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5 Equipments Used during Test

Radiated emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	HORN ANTENNA	R&S	HF 906	100023	2006-06-17	2007-06-16
2	BROADBAND ANTENNA	R&S	HL 562	100019	2006-06-17	2007-06-16
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2006-03-06	2007-03-05
4	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	100536	2006-01-25	2007-01-24

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2006-6-29	2007-6-28
2	Line impedance stabilization network	ETS	3816/2	00034161	2006-6-29	2007-6-28

General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due date
1	Temperature, Humidity & Barometer	Oregon Scientific	BA-888	EMC0001 to EMC0004	2006-07-25	2007-07-24
2	DMM	Fluke	73	70681569 or 70671122	2006-07-23	2007-07-22

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6 Emission Test Results

6.1 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	CFR 47 Part 15
Test Method:	ANSI C63.4, CISPR 22
Test Date:	December 12, 2006
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)

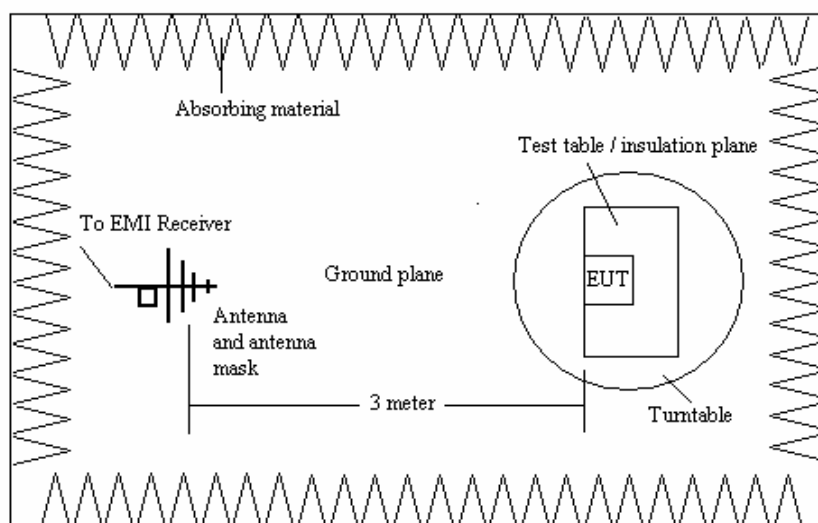
6.1.1 E.U.T. Operation

Operating Environment:

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

EUT Operation: EUT allocated channel mode GSM850&PCS 1900 with charger

6.1.2 Test setup:



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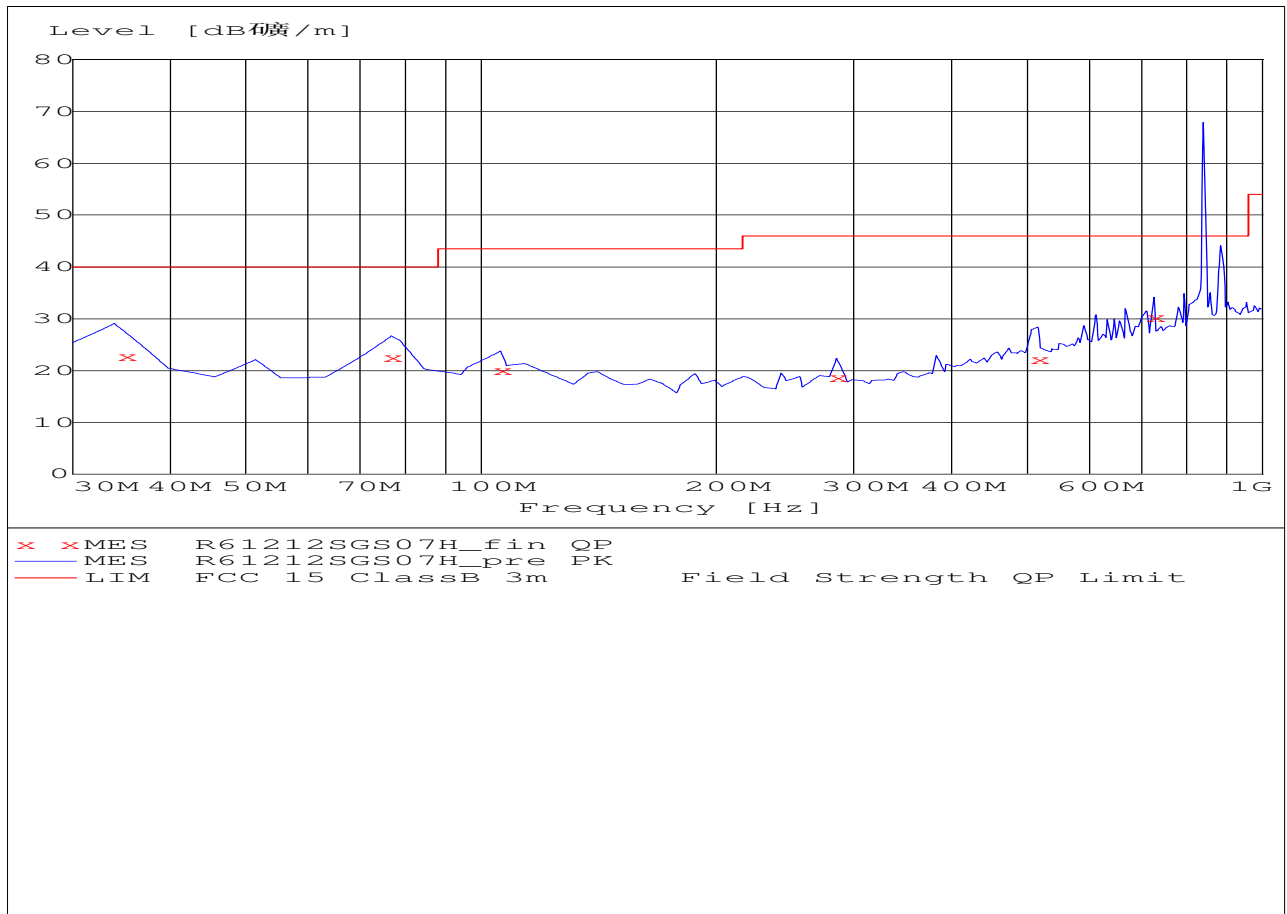
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6.1.3 Test Result:

GSM850 dedicated: (test with the adapter of power supply 01)

Horizontal:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
34.989710	22.69	300.0	0.00	HORIZONTAL	40.00	17.31
76.653307	22.49	300.0	0.00	HORIZONTAL	40.00	17.51
105.811623	19.99	300.0	0.00	HORIZONTAL	43.50	23.51
284.649299	18.57	300.0	90.00	HORIZONTAL	46.00	27.43
515.971944	22.06	200.0	270.00	HORIZONTAL	46.00	23.94
725.911824	30.20	100.0	0.00	HORIZONTAL	46.00	15.80

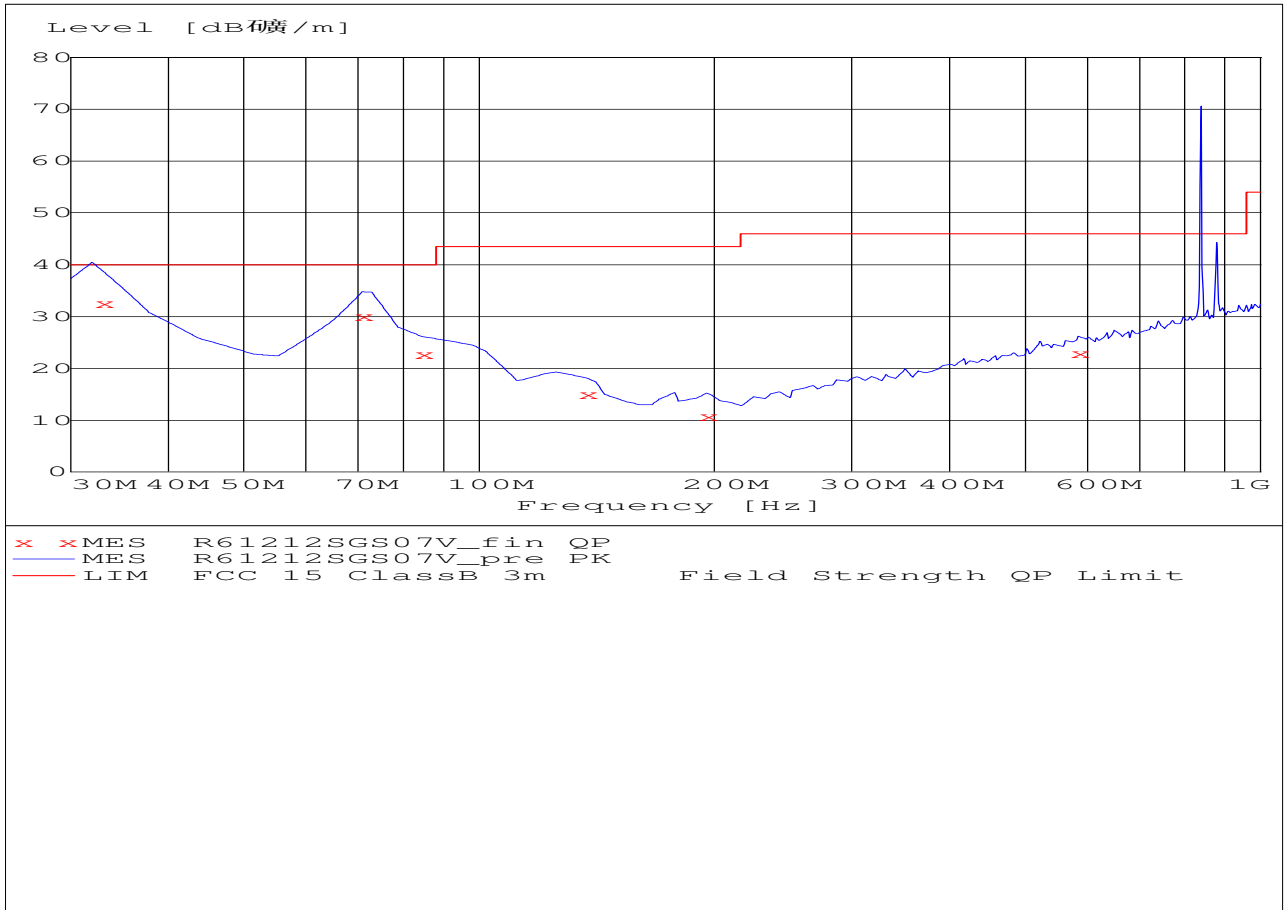
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Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
32.932526	32.43	100.0	270.00	VERTICAL	40.00	12.57
70.821643	29.93	100.0	180.00	VERTICAL	40.00	10.07
84.428858	22.58	200.0	270.00	VERTICAL	40.00	17.42
136.913828	14.79	400.0	0.00	VERTICAL	43.50	28.71
195.230461	10.71	100.0	270.00	VERTICAL	43.50	32.79
584.008016	22.76	200.0	90.00	VERTICAL	46.00	23.24

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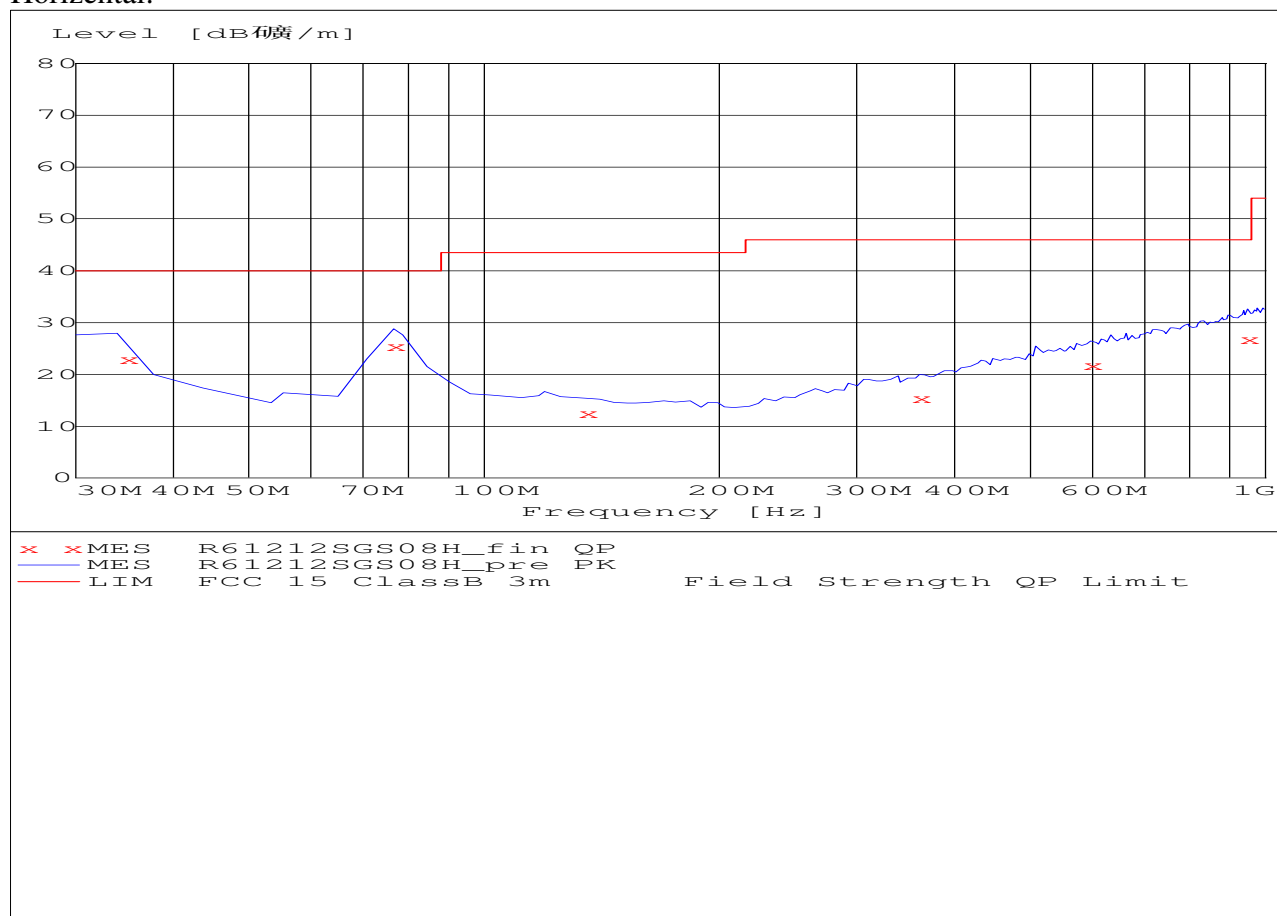
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GSM1900 dedicated: (test with the adapter of power supply 01)

Horizontal:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
34.903554	22.85	100.0	270.00	HORIZONTAL	40.00	17.15
76.653307	25.42	400.0	90.00	HORIZONTAL	40.00	14.58
134.969940	12.38	200.0	90.00	HORIZONTAL	43.50	31.12
360.460922	15.28	300.0	270.00	HORIZONTAL	46.00	30.72
597.615230	21.59	200.0	270.00	HORIZONTAL	46.00	24.41
949.458918	26.60	100.0	270.00	HORIZONTAL	46.00	19.40

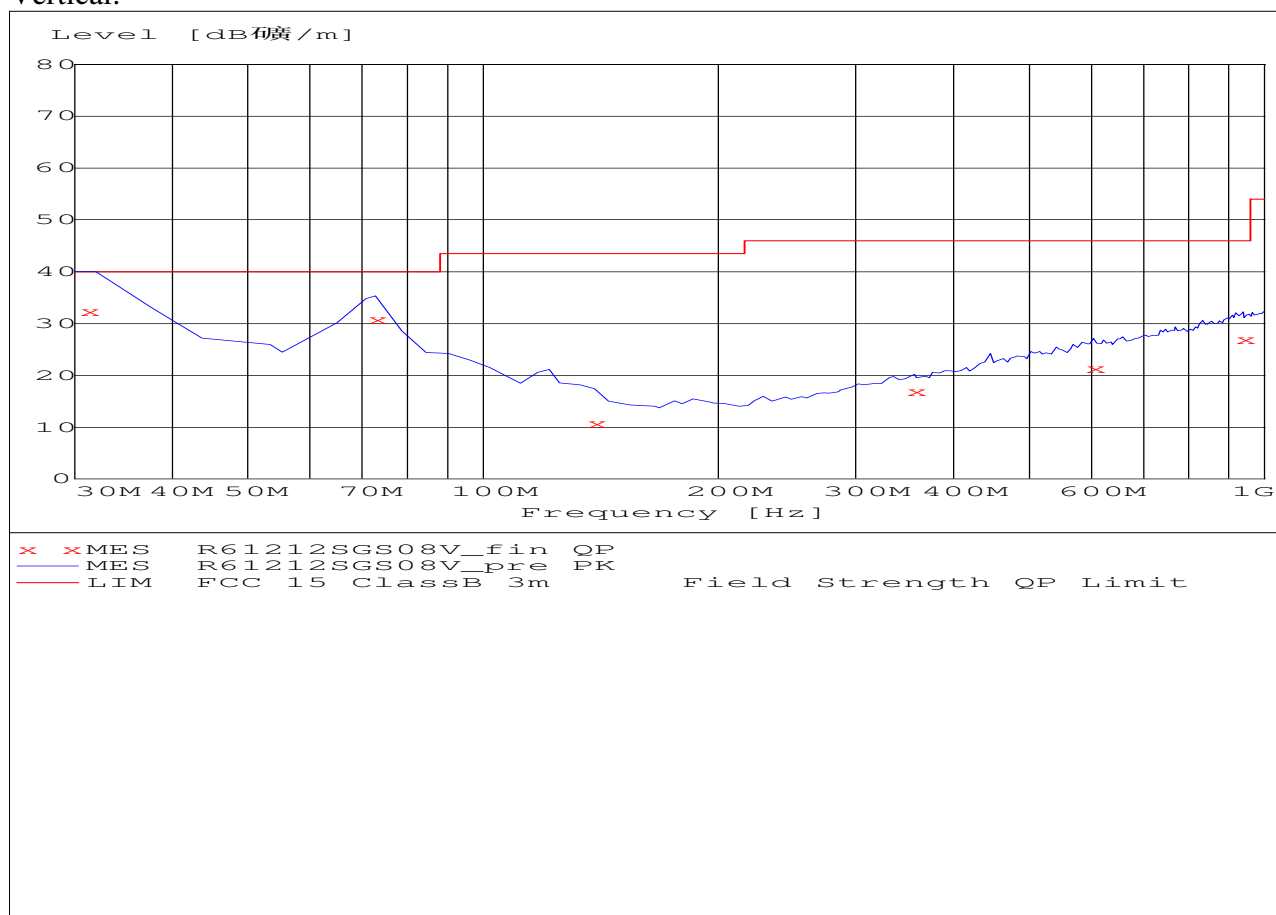
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Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
31.231027	32.18	100.0	90.00	VERTICAL	40.00	6.82
72.765531	30.64	100.0	180.00	VERTICAL	40.00	9.36
138.857715	10.75	400.0	0.00	VERTICAL	43.50	32.75
356.573146	16.83	300.0	270.00	VERTICAL	46.00	29.17
603.446894	21.20	300.0	270.00	VERTICAL	46.00	24.80
939.739479	26.77	100.0	0.00	VERTICAL	46.00	19.23

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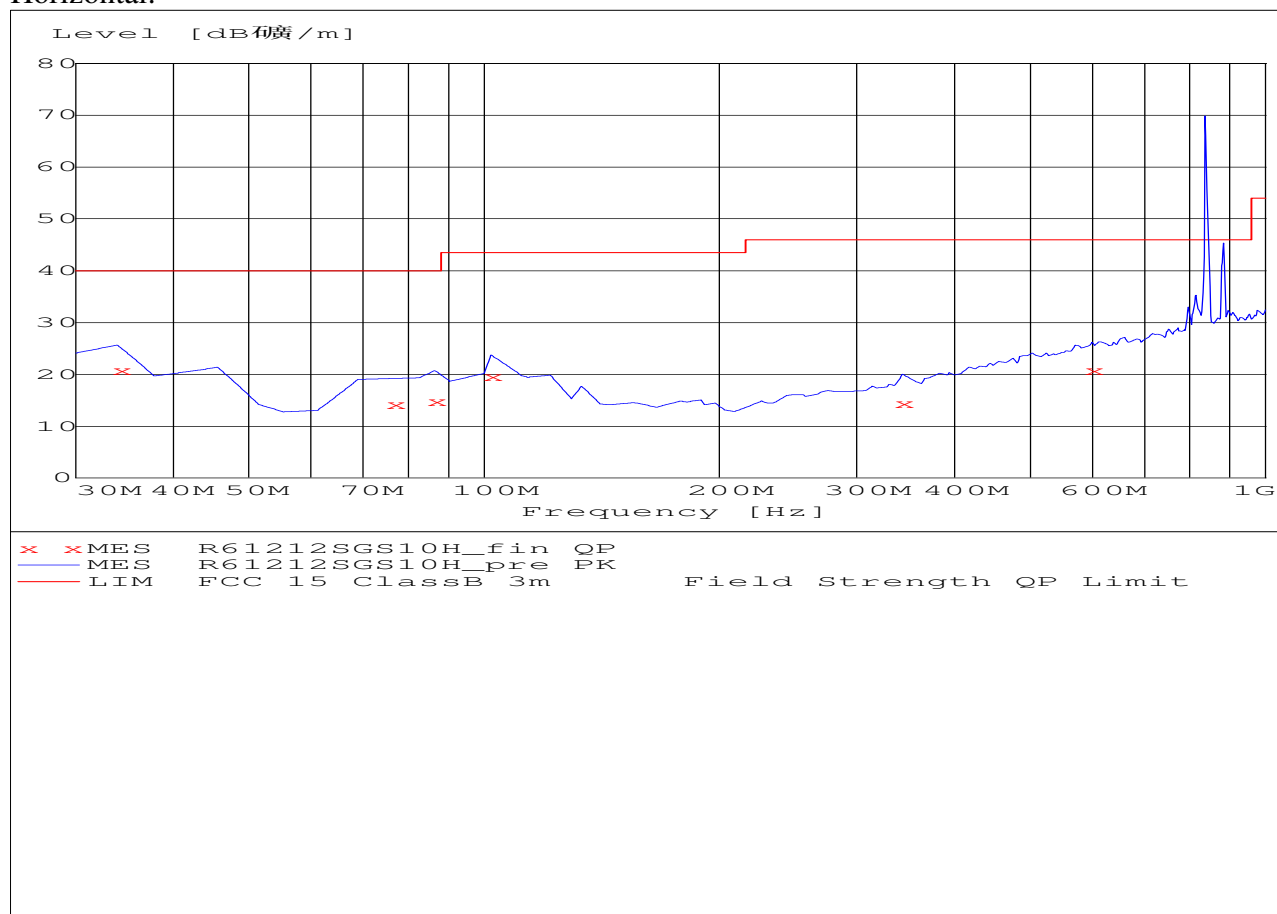
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GSM850 dedicated: (test with the adapter of power supply 02)

Horizontal:



Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
34.169523	20.74	200.0	270.00	HORIZONTAL	40.00	19.26
76.653307	14.11	300.0	0.00	HORIZONTAL	40.00	25.89
86.372745	14.75	100.0	270.00	HORIZONTAL	40.00	25.25
101.923848	19.46	400.0	0.00	HORIZONTAL	43.50	24.04
342.965932	14.36	300.0	270.00	HORIZONTAL	46.00	31.64
599.559118	20.81	200.0	270.00	HORIZONTAL	46.00	25.19

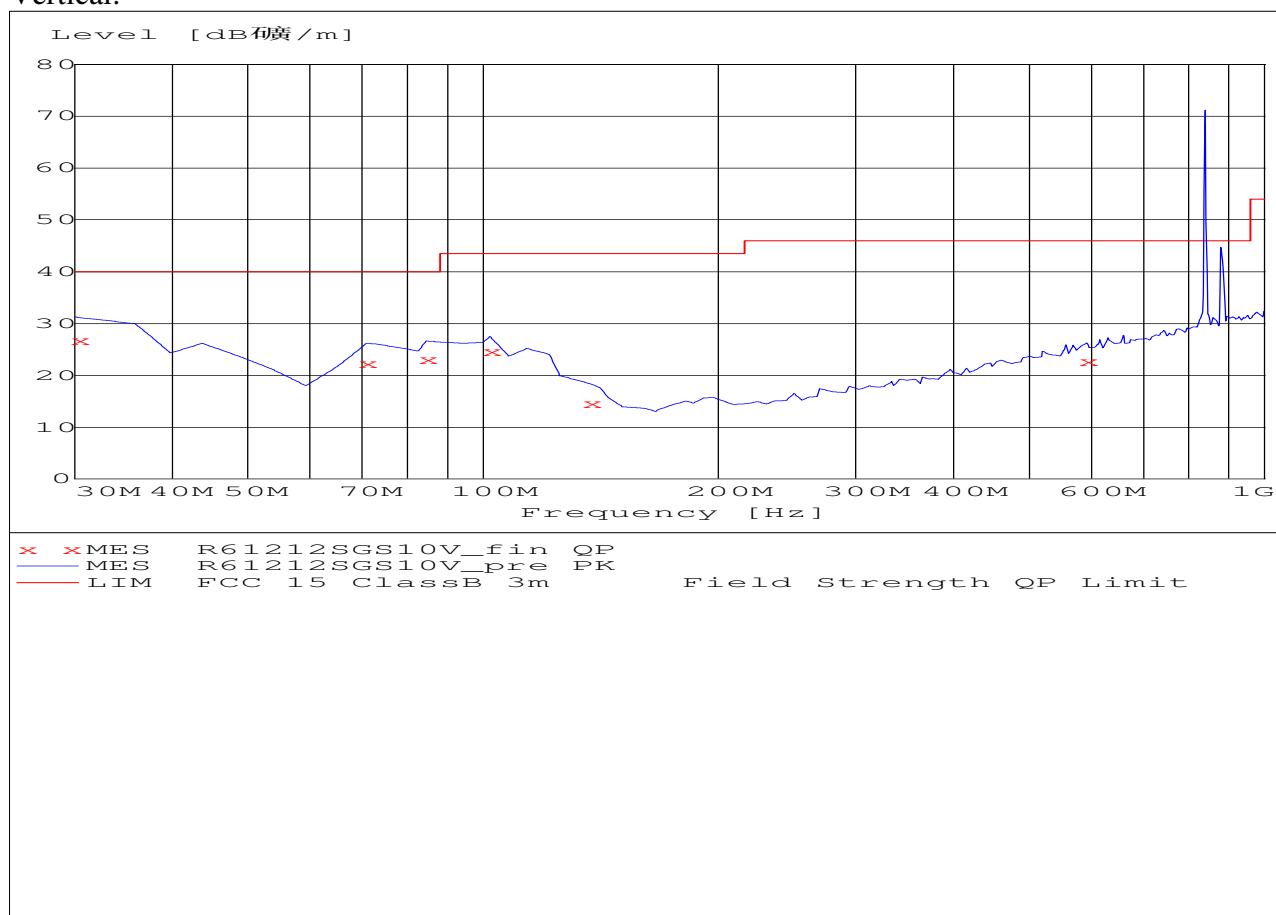
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Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
30.265942	26.63	100.0	180.00	VERTICAL	40.00	13.37
70.821643	22.35	100.0	270.00	VERTICAL	40.00	17.65
84.428858	22.96	200.0	0.00	VERTICAL	40.00	17.04
101.923848	24.46	200.0	0.00	VERTICAL	43.50	19.04
136.913828	14.65	200.0	90.00	VERTICAL	43.50	28.85
591.783567	22.64	200.0	90.00	VERTICAL	46.00	23.36

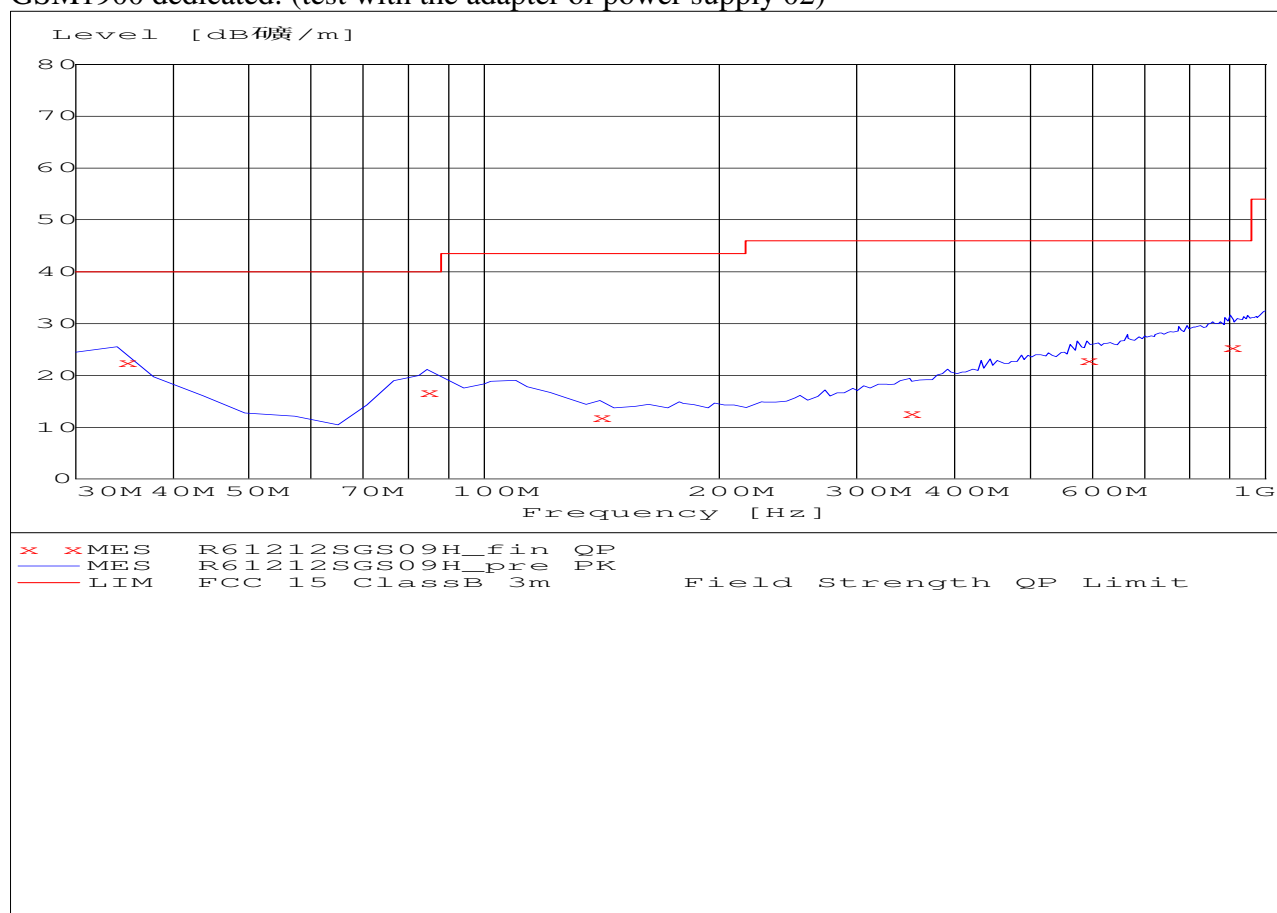
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GSM1900 dedicated: (test with the adapter of power supply 02)



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
34.753505	22.49	400.0	90.00	HORIZONTAL	40.00	17.51
84.428858	16.55	100.0	90.00	HORIZONTAL	40.00	23.45
140.801603	11.83	200.0	180.00	HORIZONTAL	43.50	31.67
350.741483	12.64	400.0	0.00	HORIZONTAL	46.00	33.36
589.839679	22.77	400.0	270.00	HORIZONTAL	46.00	23.23
900.861723	25.41	300.0	0.00	HORIZONTAL	46.00	20.59

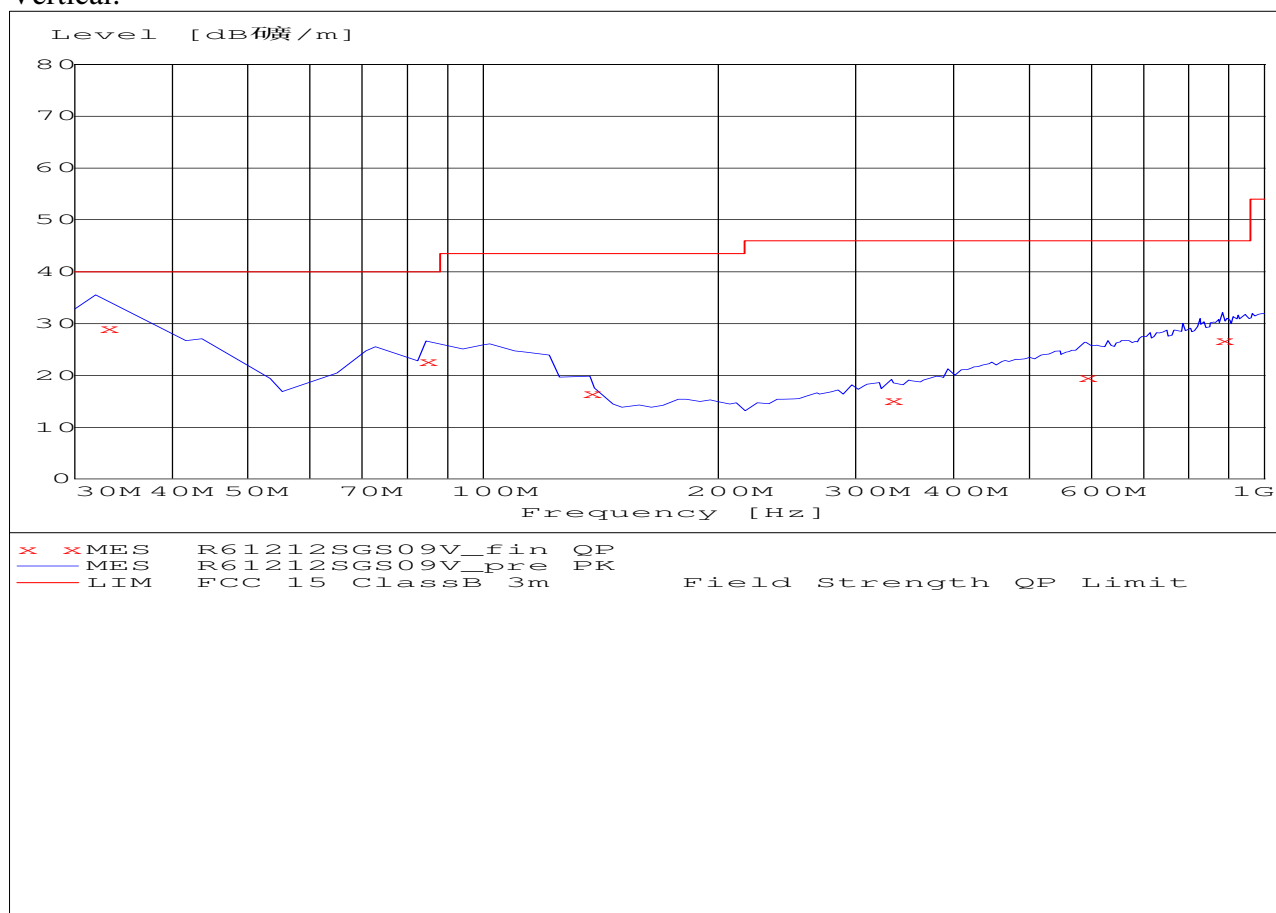
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Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
33.042111	29.01	100.0	0.00	VERTICAL	40.00	10.99
84.428858	22.66	100.0	0.00	VERTICAL	40.00	17.34
136.913828	16.43	400.0	180.00	VERTICAL	43.50	27.07
333.246493	15.07	300.0	180.00	VERTICAL	46.00	30.93
589.839679	19.43	200.0	180.00	VERTICAL	46.00	26.57
883.366733	26.54	300.0	270.00	VERTICAL	46.00	19.46

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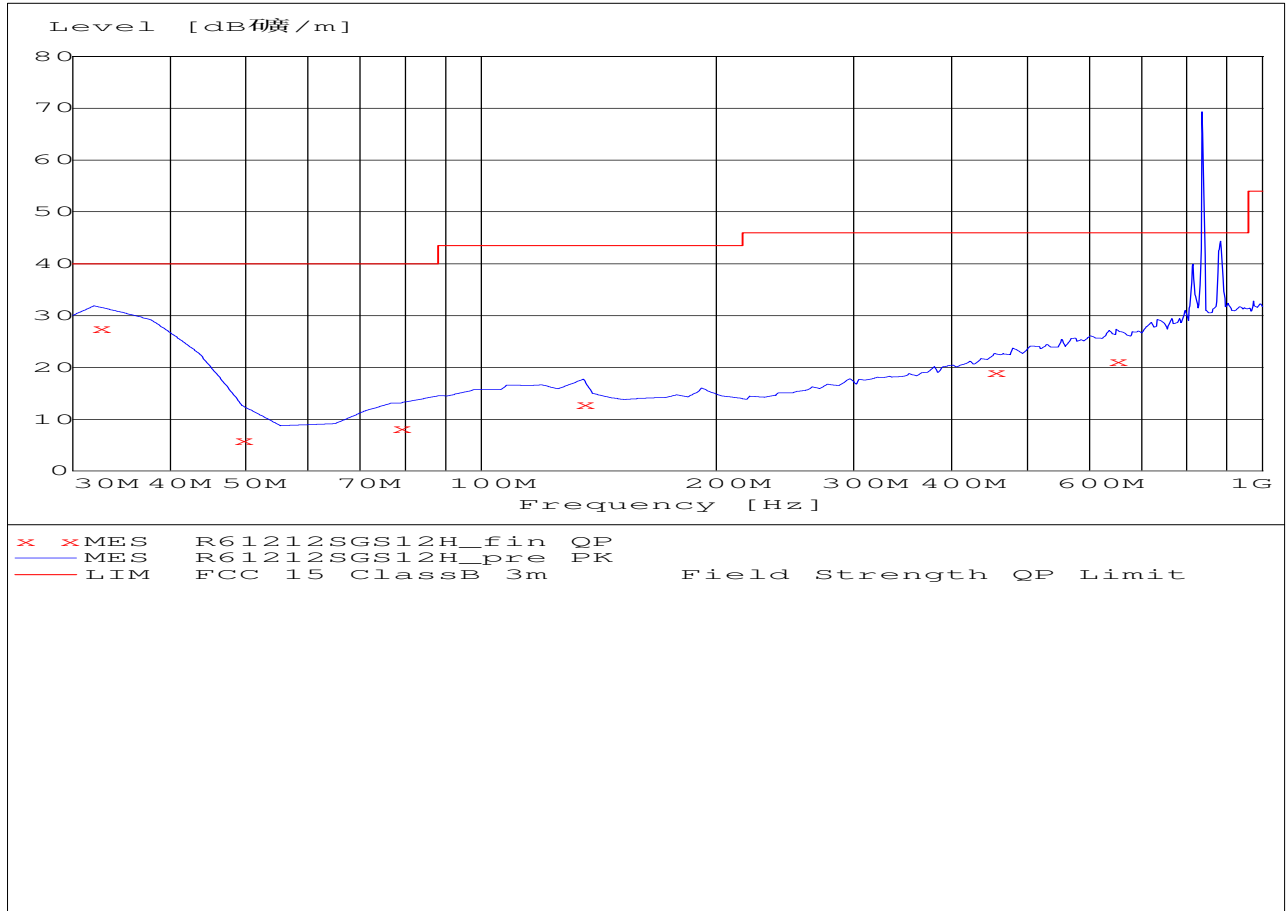
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GSM850 dedicated: (test with the adapter of power supply 03)

Horizontal:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
32.463776	27.50	400.0	270.00	HORIZONTAL	40.00	12.50
49.438878	5.92	200.0	180.00	HORIZONTAL	40.00	34.08
78.597194	8.17	400.0	0.00	HORIZONTAL	40.00	31.83
134.969940	12.74	300.0	270.00	HORIZONTAL	43.50	30.76
453.767535	18.83	100.0	180.00	HORIZONTAL	46.00	27.17
650.100200	21.10	300.0	180.00	HORIZONTAL	46.00	24.90

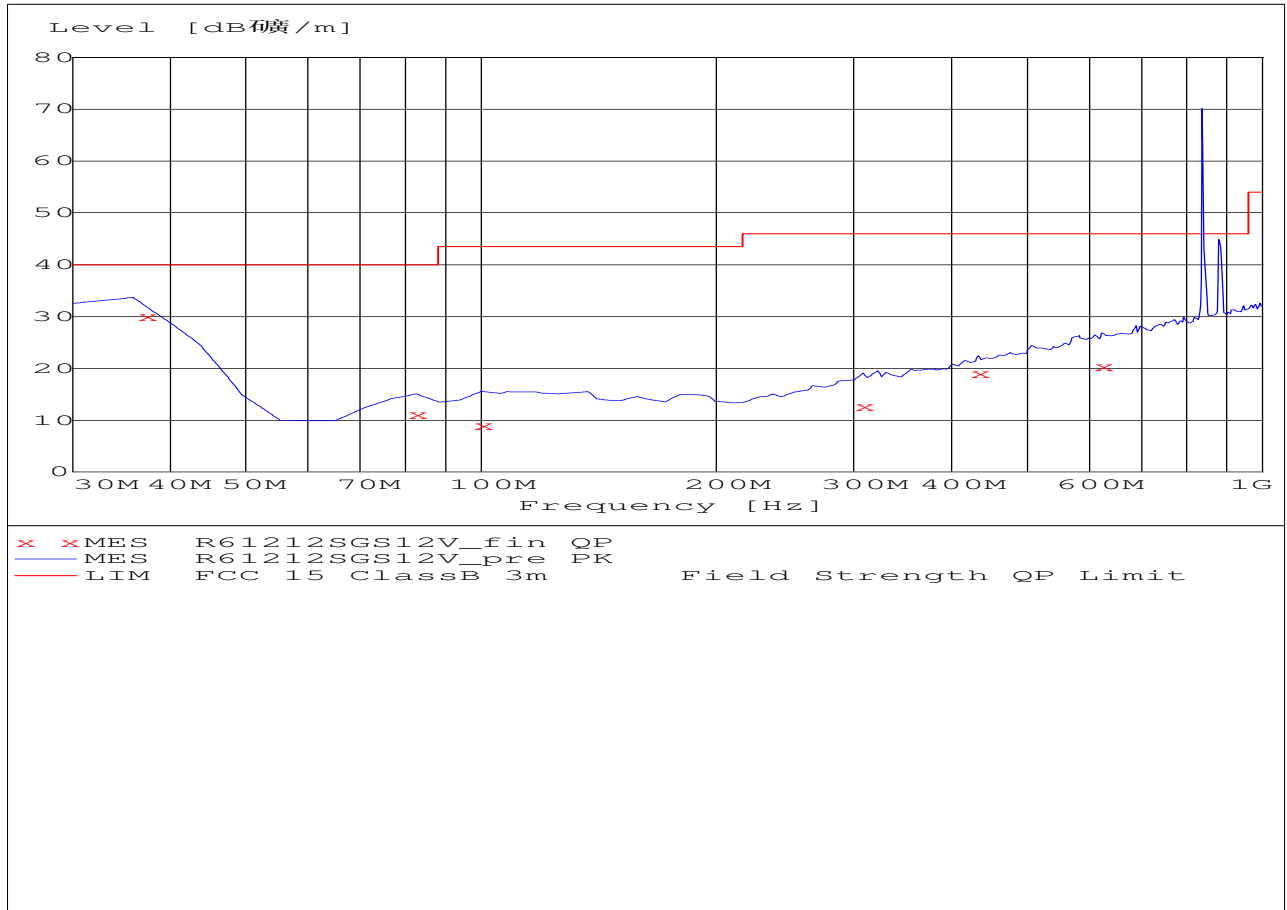
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
37.166647	29.92	100.0	90.00	VERTICAL	40.00	10.08
82.484970	10.93	100.0	0.00	VERTICAL	40.00	29.07
99.979960	9.01	100.0	270.00	VERTICAL	43.50	34.49
307.975952	12.48	400.0	180.00	VERTICAL	46.00	33.52
432.384770	18.87	100.0	90.00	VERTICAL	46.00	27.13
622.885772	20.27	200.0	180.00	VERTICAL	46.00	25.73

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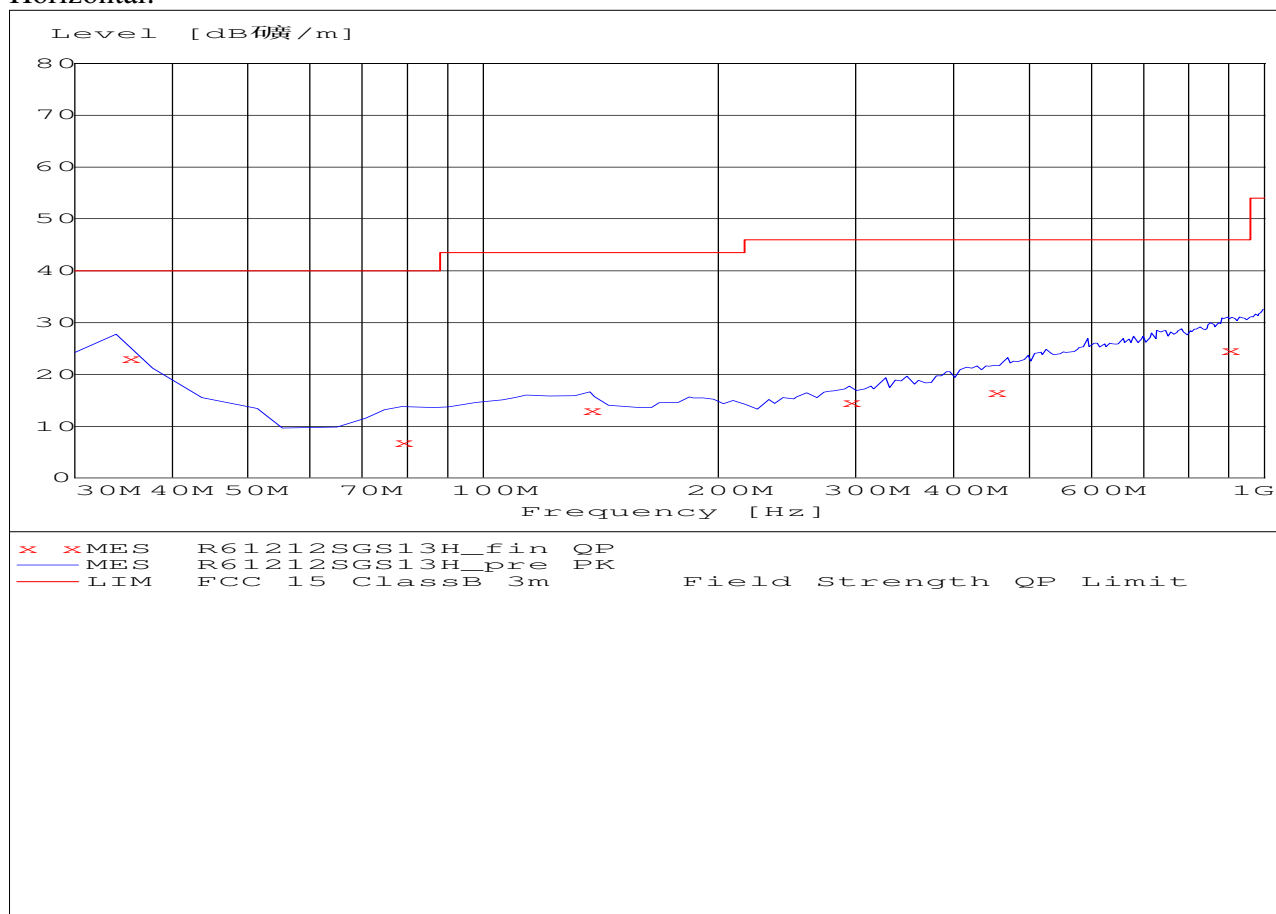
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PCS1900 dedicated: (test with the adapter of power supply 03)

Horizontal:



Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
35.207983	22.99	400.0	90.00	HORIZONTAL	40.00	17.01
78.597194	6.91	300.0	180.00	HORIZONTAL	40.00	33.09
136.913828	13.07	400.0	180.00	HORIZONTAL	43.50	30.43
294.368737	14.56	300.0	0.00	HORIZONTAL	46.00	31.44
451.823647	16.34	400.0	0.00	HORIZONTAL	46.00	29.66
898.917836	24.55	400.0	90.00	HORIZONTAL	46.00	21.45

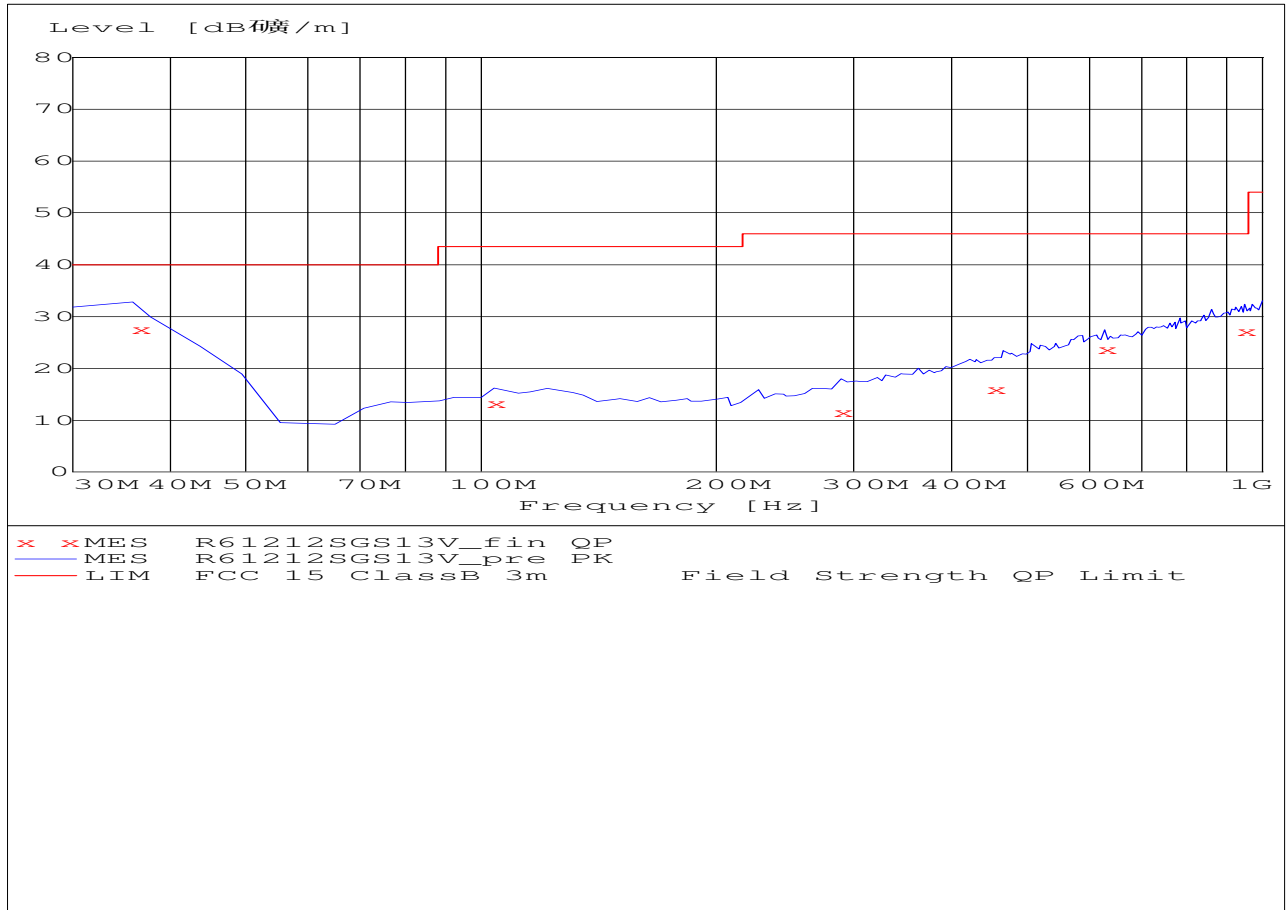
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
36.492941	27.48	100.0	90.00	VERTICAL	40.00	12.52
103.867735	13.13	100.0	180.00	VERTICAL	43.50	30.37
288.537074	11.40	100.0	180.00	VERTICAL	46.00	34.60
453.767535	15.87	300.0	270.00	VERTICAL	46.00	30.13
628.717435	23.64	400.0	0.00	VERTICAL	46.00	22.36
949.458918	27.00	100.0	90.00	VERTICAL	46.00	19.00

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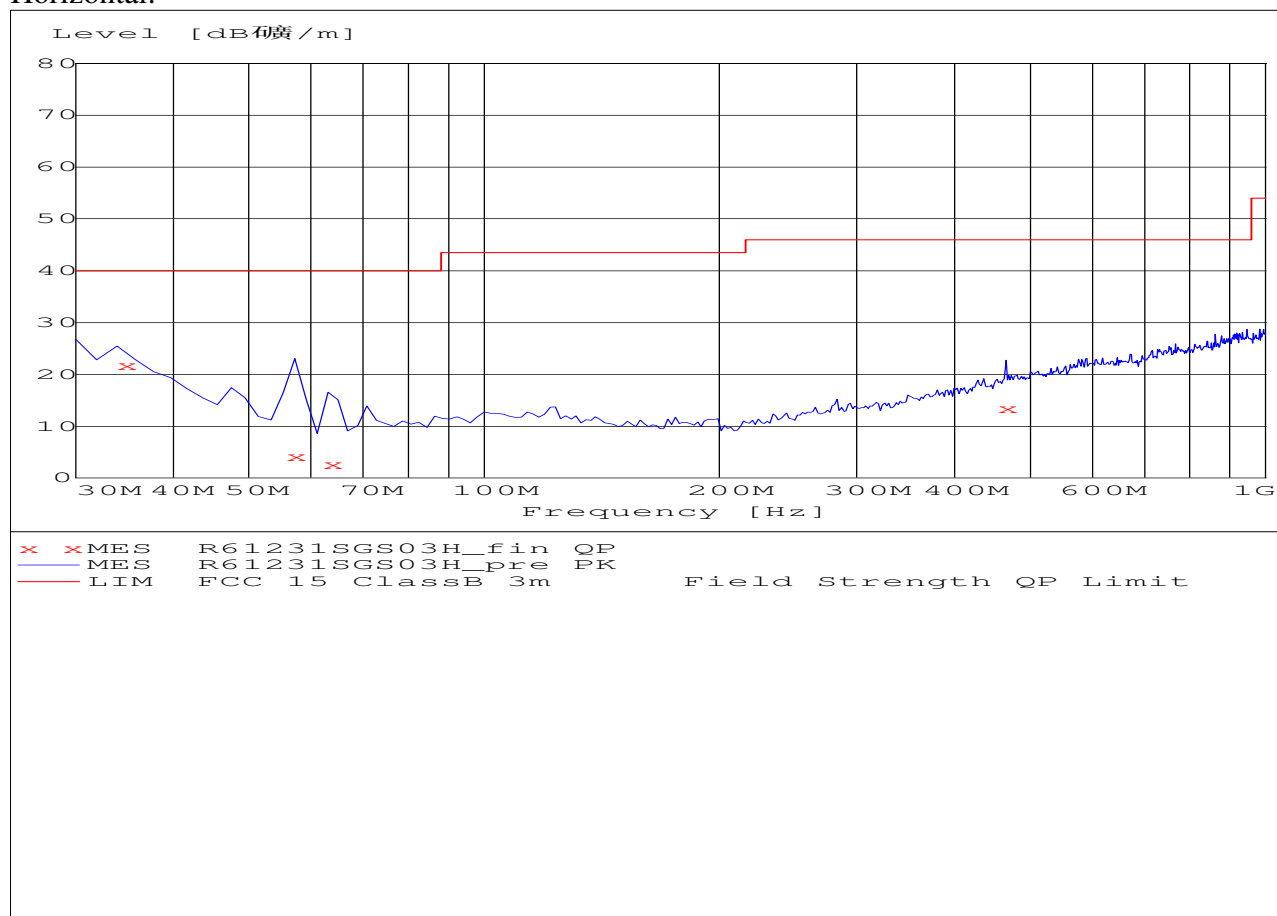
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PCS1900 dedicated: (test with the headset01)

Horizontal:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation
34.709419	21.73	400.0	0.00	HORIZONTAL
57.150301	4.00	400.0	0.00	HORIZONTAL
63.527054	2.45	400.0	0.00	HORIZONTAL
464.529058	13.31	400.0	180.00	HORIZONTAL

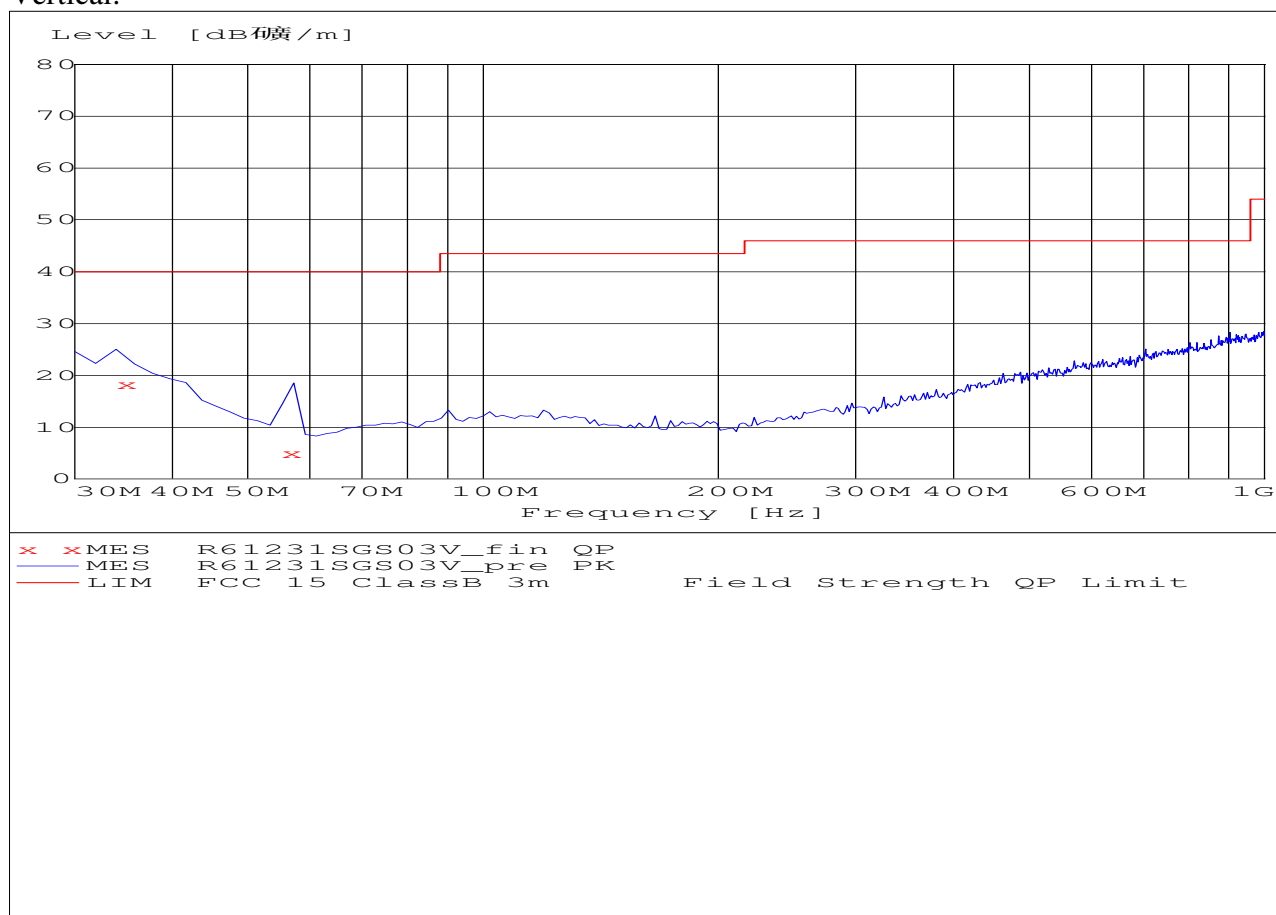
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Vertical:



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBµV/m	cm	deg	

34.749499	18.22	100.0	180.00	VERTICAL
56.448898	4.75	400.0	0.00	VERTICAL

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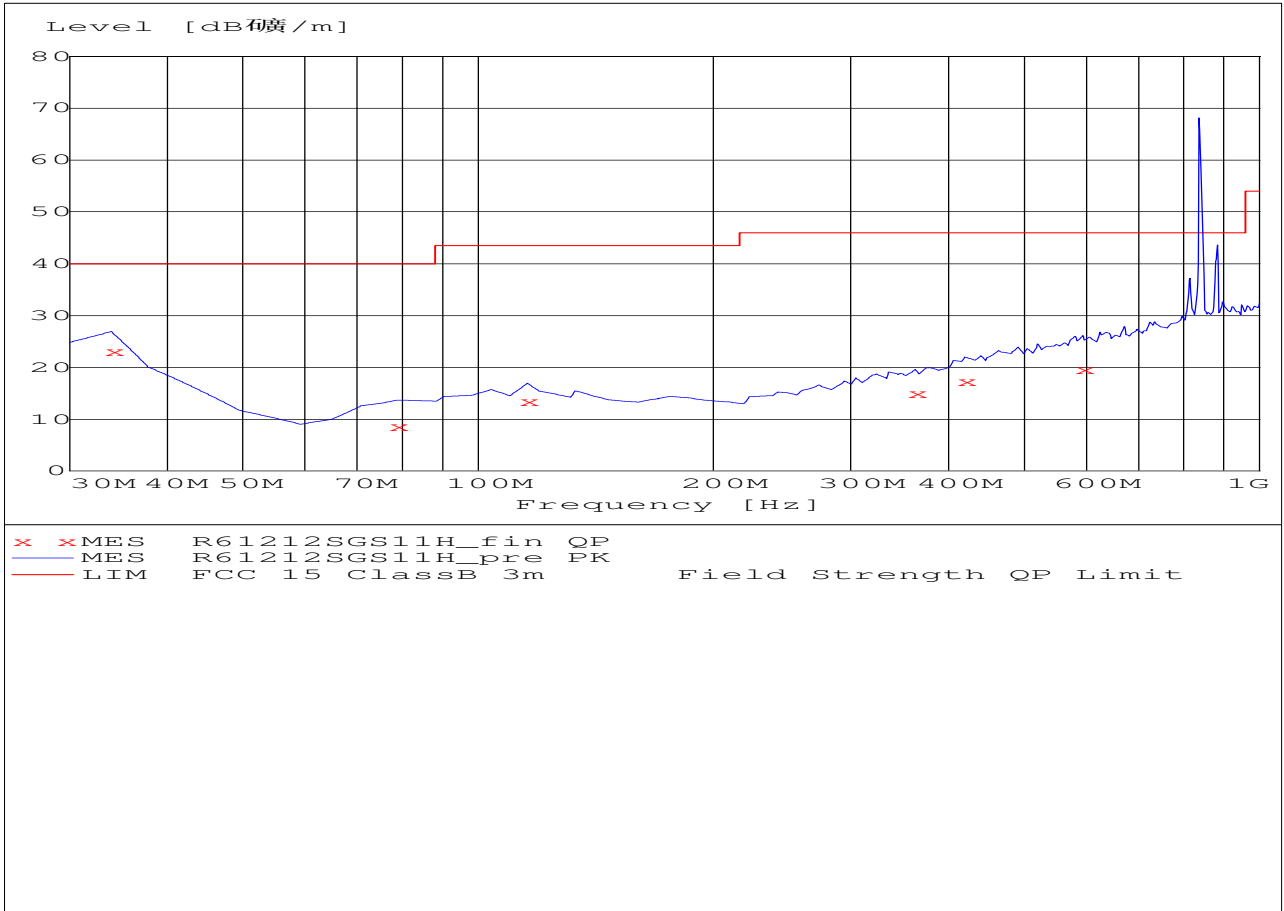
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GSM850 dedicated: (test with the headset02:)

Horizontal:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
34.037122	23.03	300.0	180.00	HORIZONTAL	40.00	16.97
78.597194	8.58	400.0	270.00	HORIZONTAL	40.00	31.42
115.531062	13.36	200.0	180.00	HORIZONTAL	43.50	30.14
362.404810	14.94	100.0	180.00	HORIZONTAL	46.00	31.06
418.777555	17.18	200.0	0.00	HORIZONTAL	46.00	28.82
593.727455	19.55	400.0	270.00	HORIZONTAL	46.00	26.45

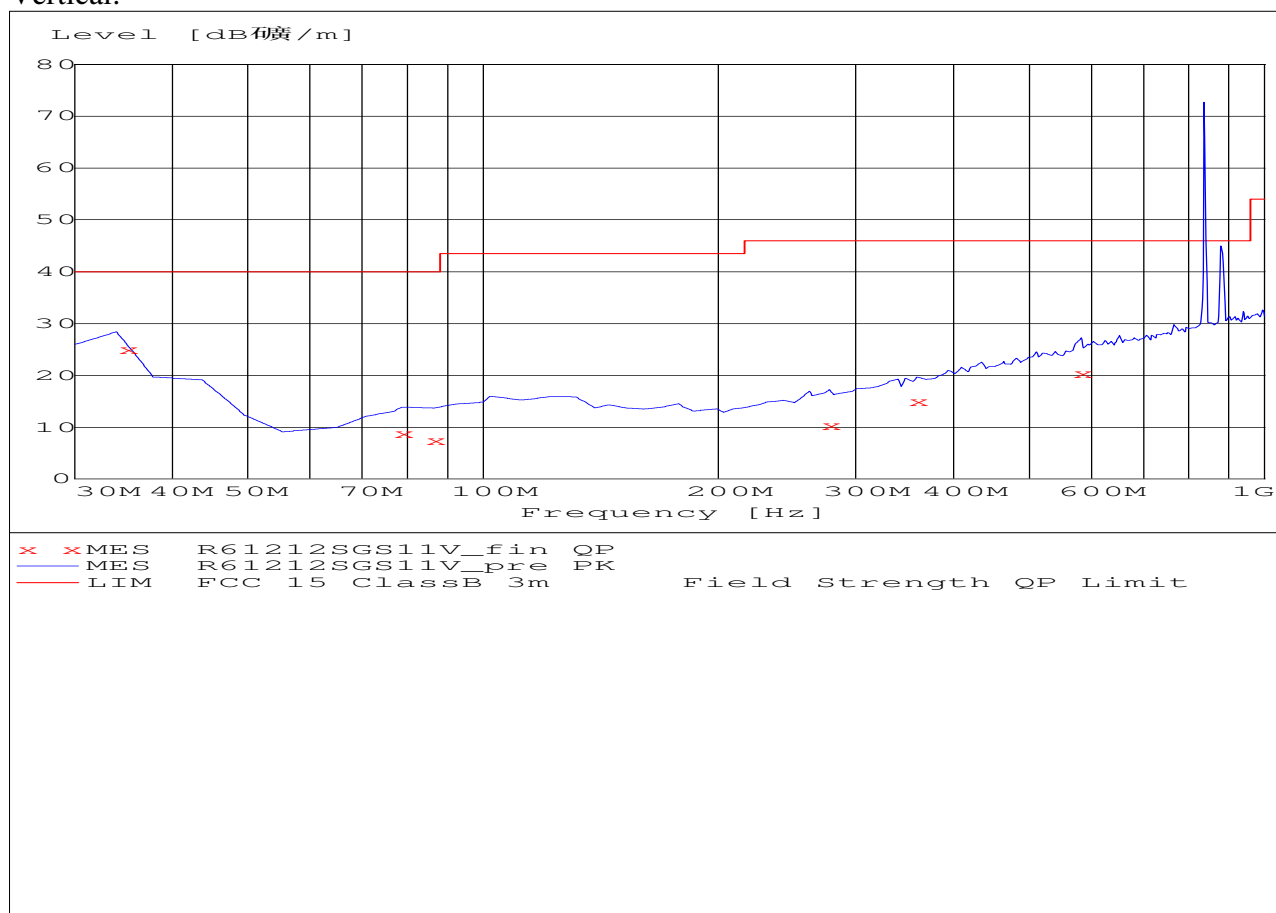
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Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
34.922043	24.87	100.0	90.00	VERTICAL	40.00	15.13
78.597194	8.75	100.0	0.00	VERTICAL	40.00	31.25
86.372745	7.45	100.0	0.00	VERTICAL	40.00	32.55
276.873747	10.34	300.0	0.00	VERTICAL	46.00	35.66
358.517034	14.80	100.0	90.00	VERTICAL	46.00	31.20
582.064128	20.30	100.0	270.00	VERTICAL	46.00	25.70

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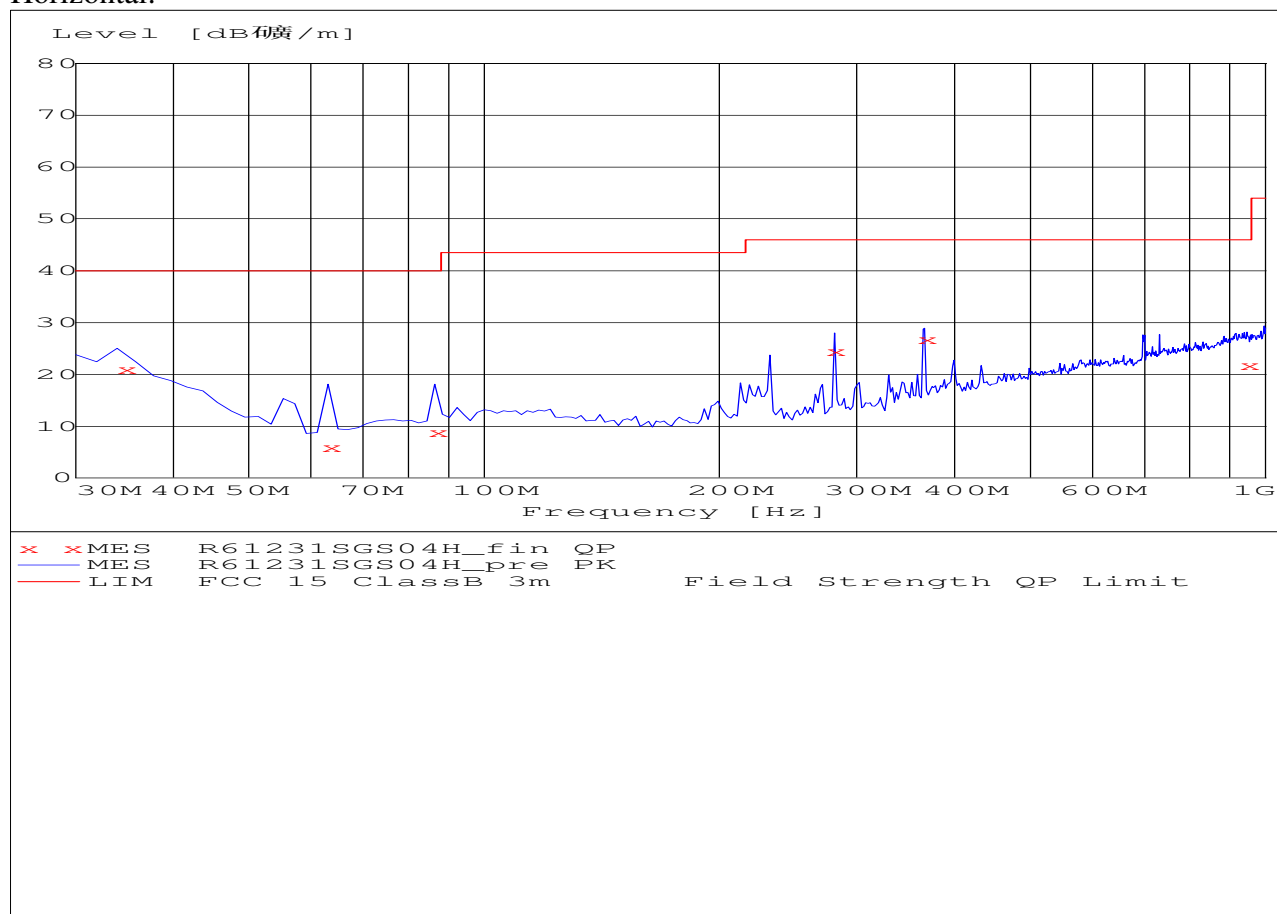
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PCS1900 dedicated: (test the mobile phone with SD card and USB connect to the PC)

Horizontal:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation
34.709419	20.83	200.0	0.00	HORIZONTAL
63.286573	5.78	400.0	90.00	HORIZONTAL
86.733467	8.65	400.0	90.00	HORIZONTAL
280.410822	24.29	100.0	0.00	HORIZONTAL
366.432866	26.56	100.0	180.00	HORIZONTAL
947.811623	21.67	300.0	180.00	HORIZONTAL

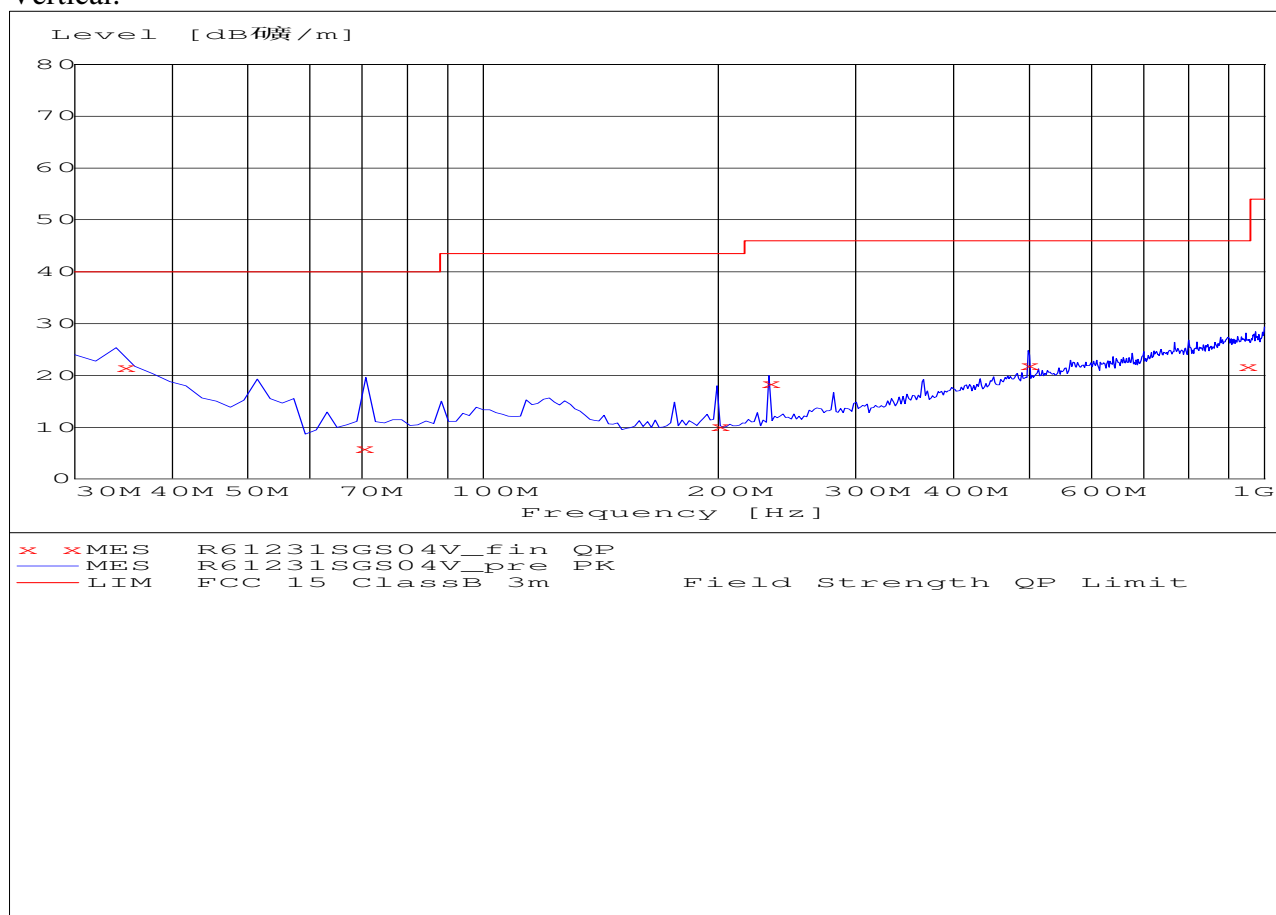
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation
34.689379	21.40	300.0	0.00	VERTICAL
70.090180	5.82	400.0	270.00	VERTICAL
199.789579	10.11	200.0	180.00	VERTICAL
232.314629	18.35	200.0	180.00	VERTICAL
497.809619	21.87	100.0	0.00	VERTICAL
947.130261	21.58	200.0	90.00	VERTICAL

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6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15
Test Method:	ANSI C63.4
Test Date:	N/A
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: 24.0°C Humidity: 58% RH Atmospheric Pressure:

EUT Operation: EUT allocated channel mode GSM850&PCS 1900 with charger

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.

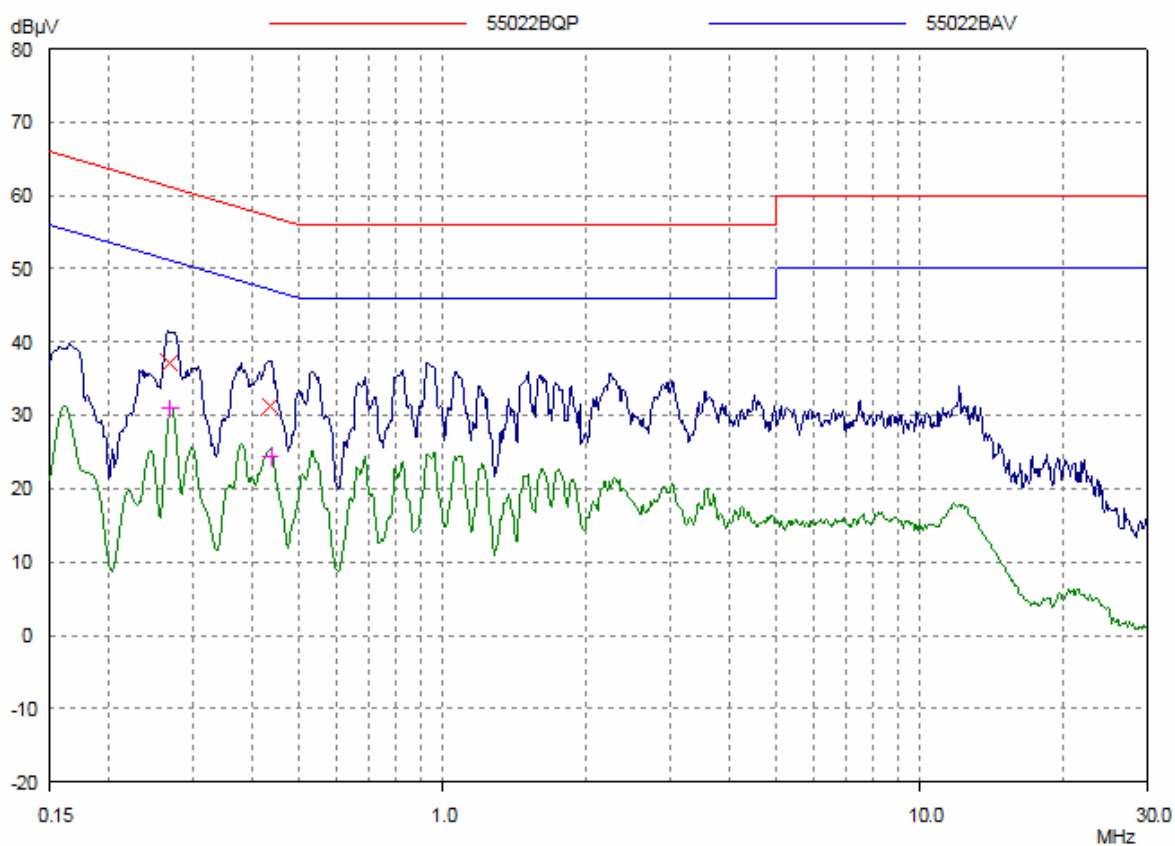
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Power supply 01
GSM850 dedicated, charging with adaptor:
L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.26835	37.21	61.17	23.96
0.43631	31.22	57.13	25.91

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.26835	30.90	51.17	20.27
0.43631	24.35	47.13	22.78

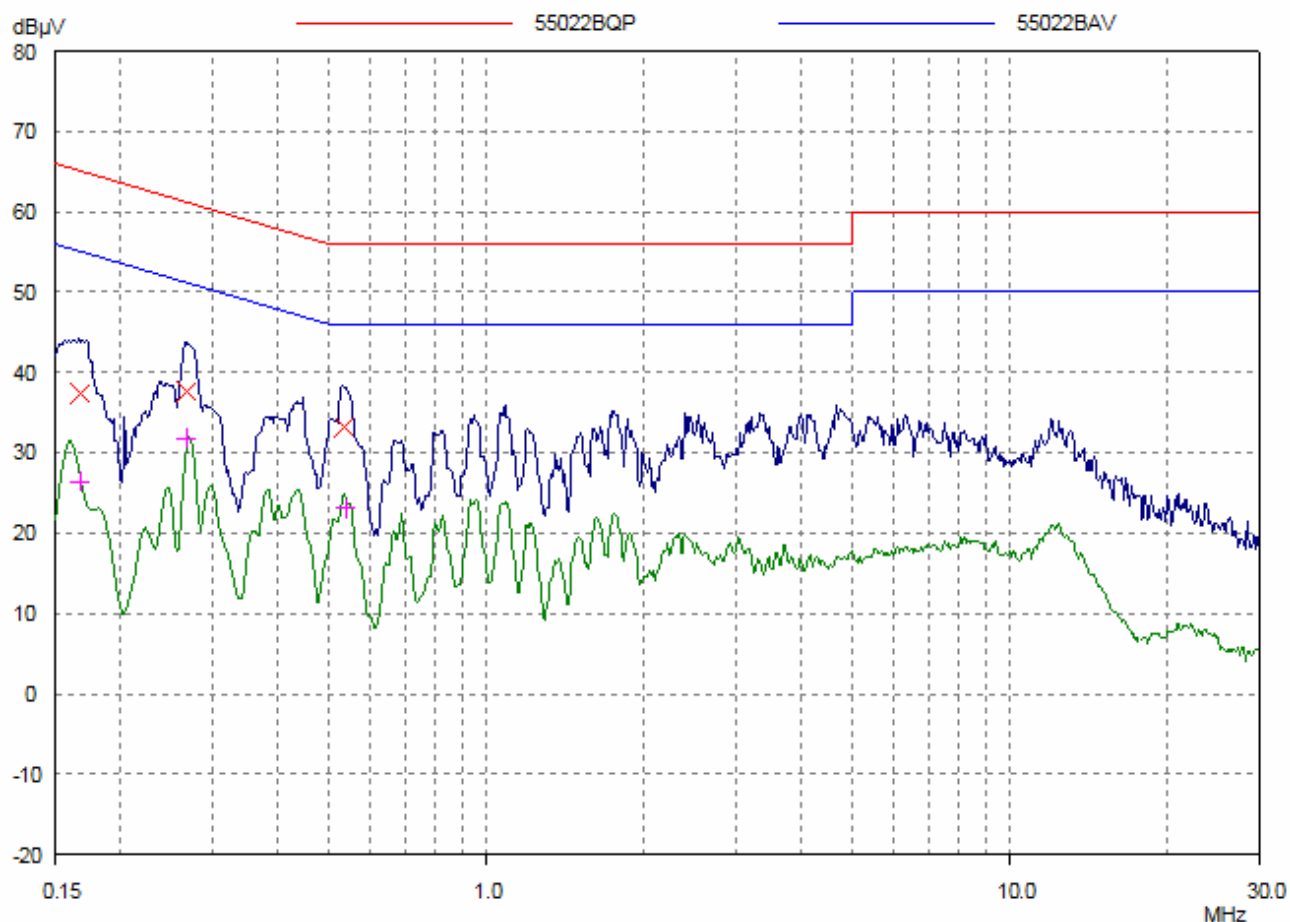
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N line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.1677	37.36	65.07	27.71
0.26835	37.67	61.17	23.50
0.53675	33.19	56.00	22.81

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.1677	26.37	55.07	28.70
0.26835	31.71	51.17	19.46
0.53675	23.04	46.00	22.96

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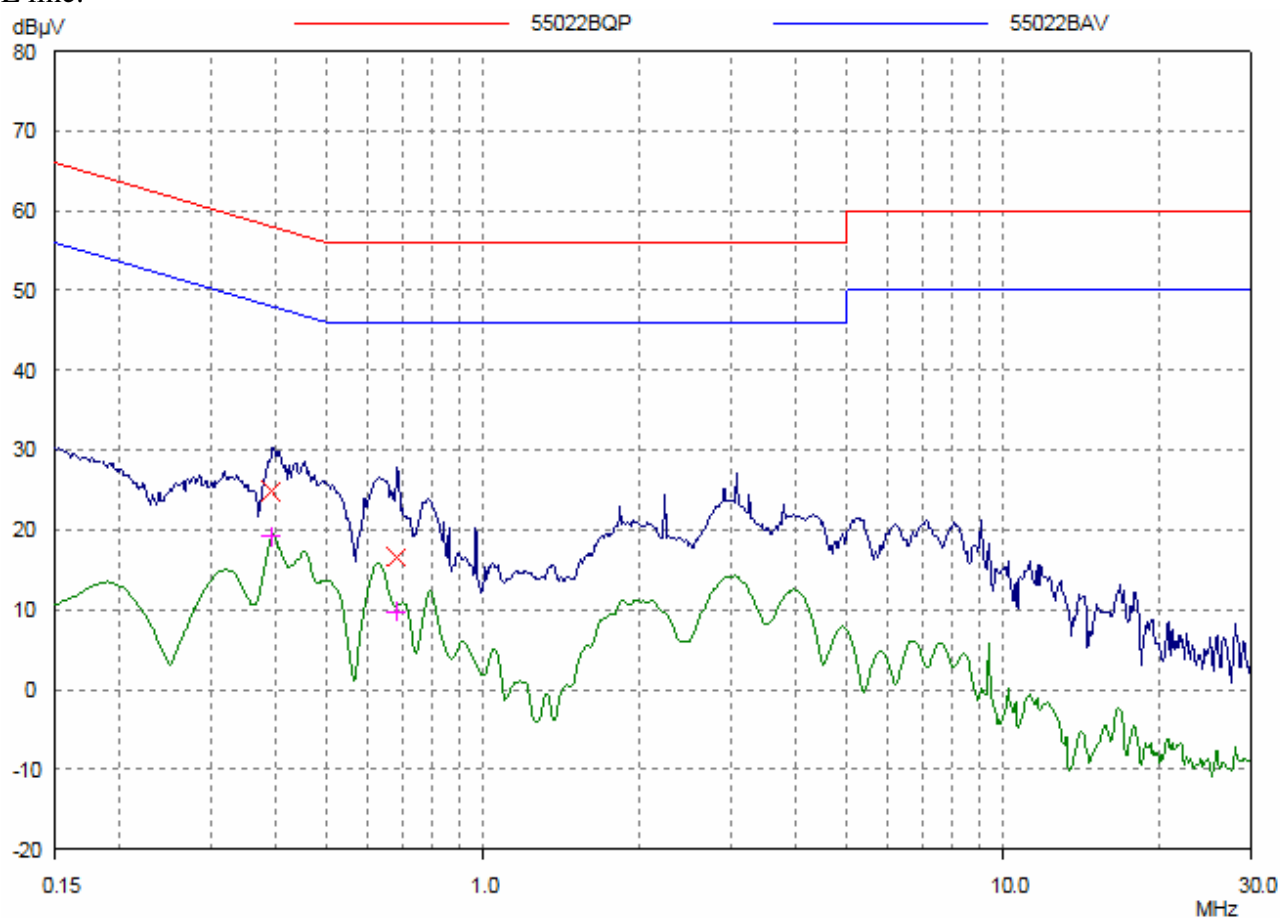
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PCS1900 dedicated, charging with adaptor:

L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.39026	24.82	58.06	33.24
0.68169	16.63	56.00	39.37

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.39026	19.08	48.06	28.98
0.68169	9.62	46.00	36.38

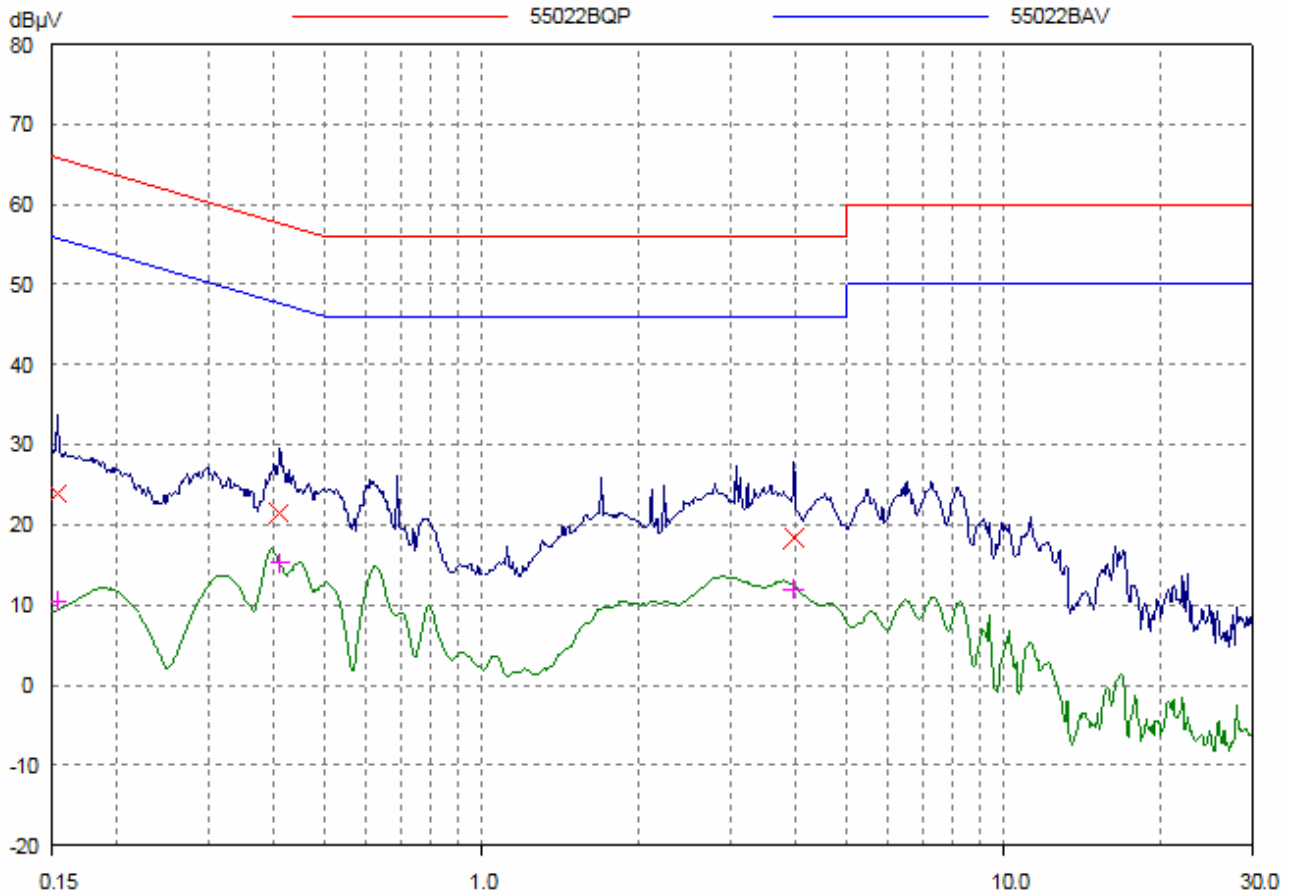
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N line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15362	23.87	65.80	41.93
0.40937	21.39	57.66	36.27
3.96615	18.31	56.00	37.69

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15362	10.36	55.80	45.44
0.40937	15.15	47.66	32.51
3.96615	11.83	46.00	34.17

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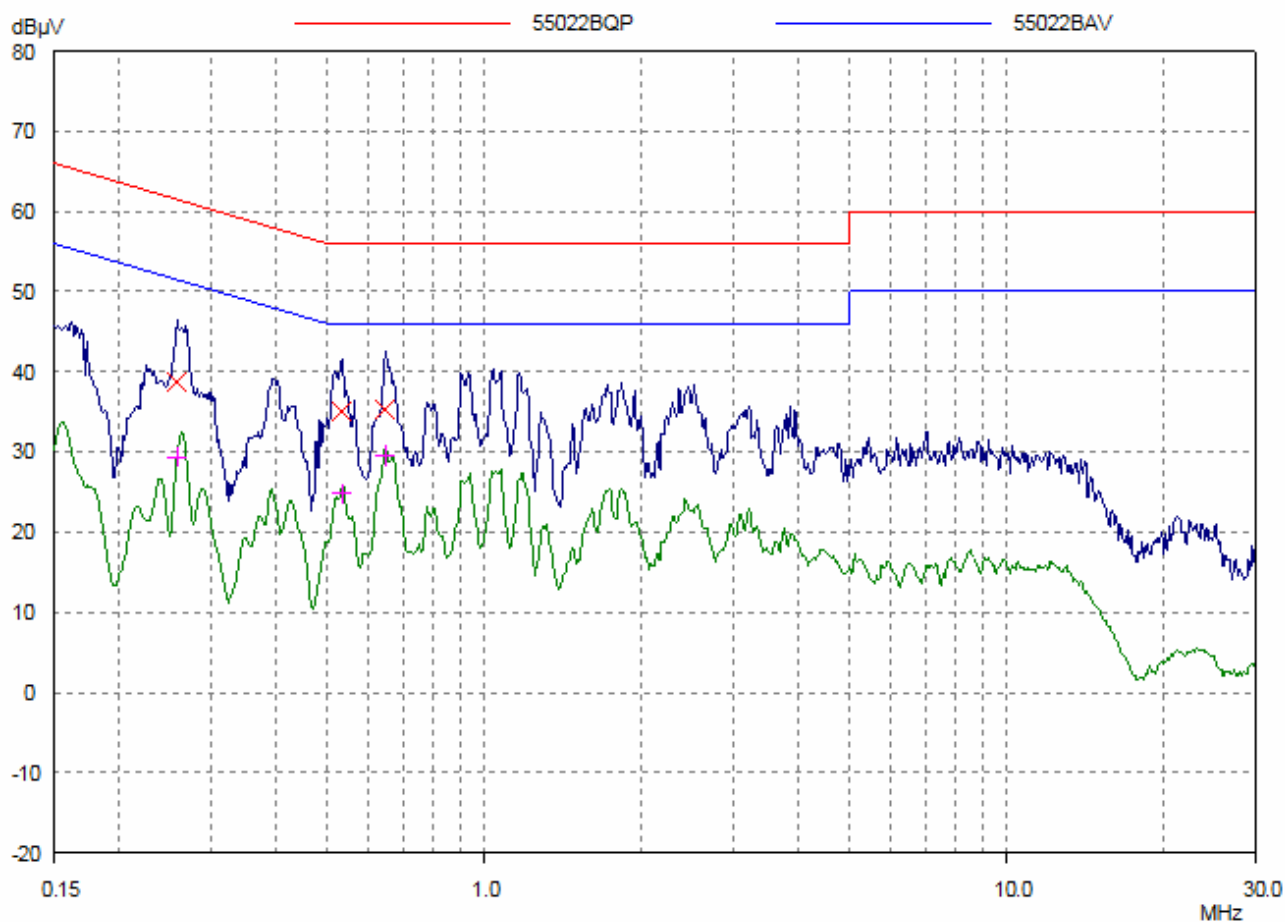
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Power supply 02

GSM850 dedicated, charging with adaptor:

L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.25787	38.78	61.50	22.72
0.53249	35.07	56.00	20.93
0.64471	35.34	56.00	20.66

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.25787	29.35	51.50	22.15
0.53249	24.79	46.00	21.21
0.64471	29.44	46.00	16.56

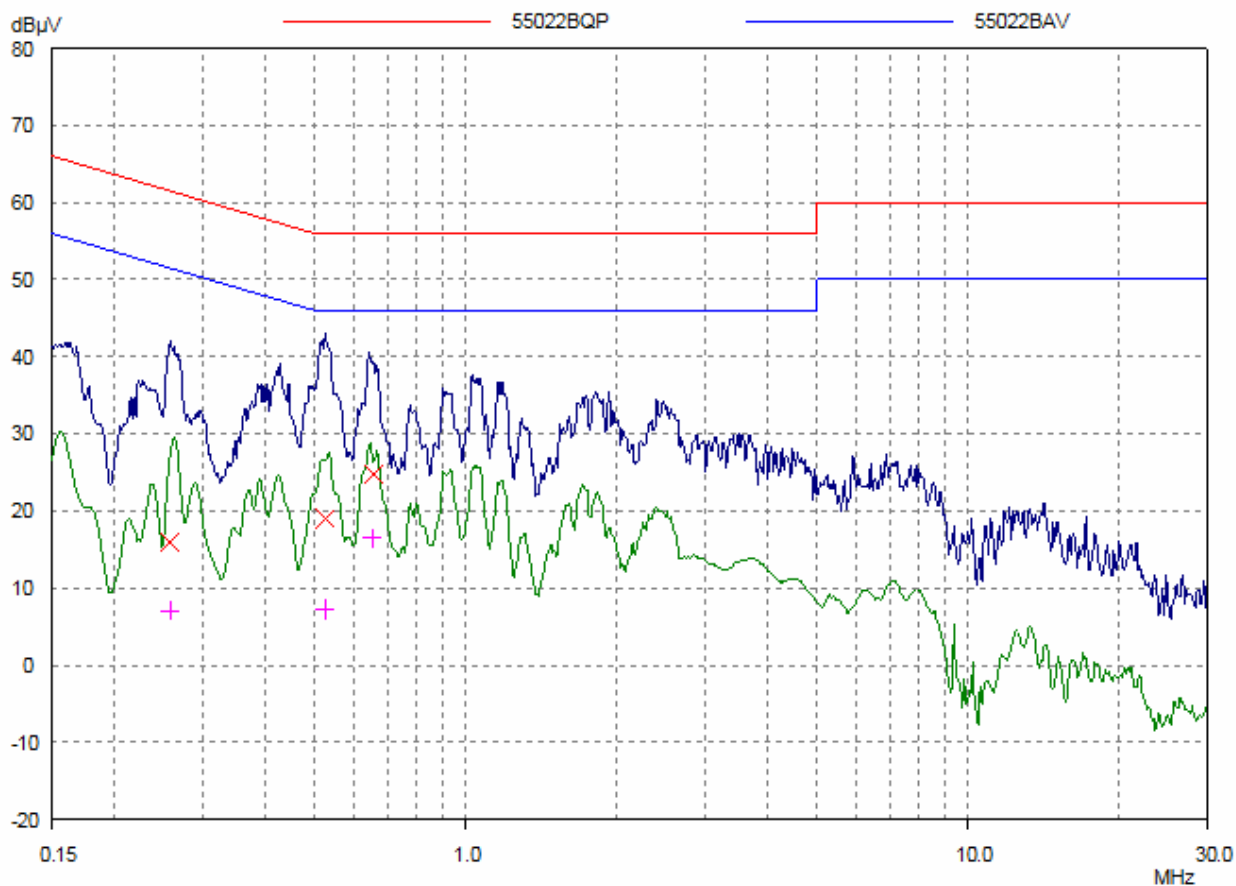
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N line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.25787	15.92	61.50	45.58
0.52407	18.95	56.00	37.05
0.65507	24.69	56.00	31.31

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.25787	6.93	51.50	44.57
0.52407	7.17	46.00	38.83
0.65507	16.49	46.00	29.51

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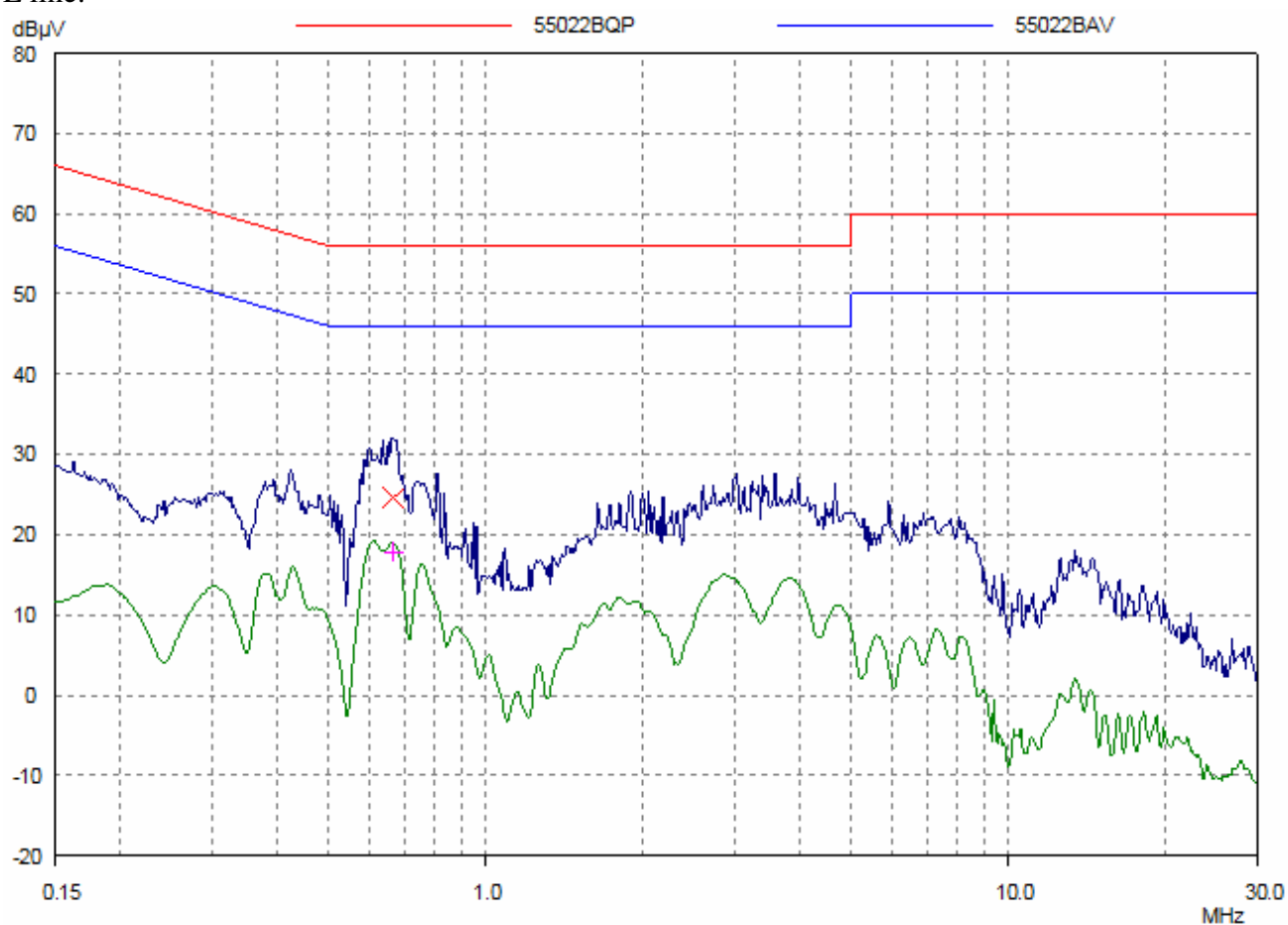
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PCS1900 dedicated, charging with adaptor:

L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.66559	24.57	56.00	31.43

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.66559	17.83	46.00	28.17

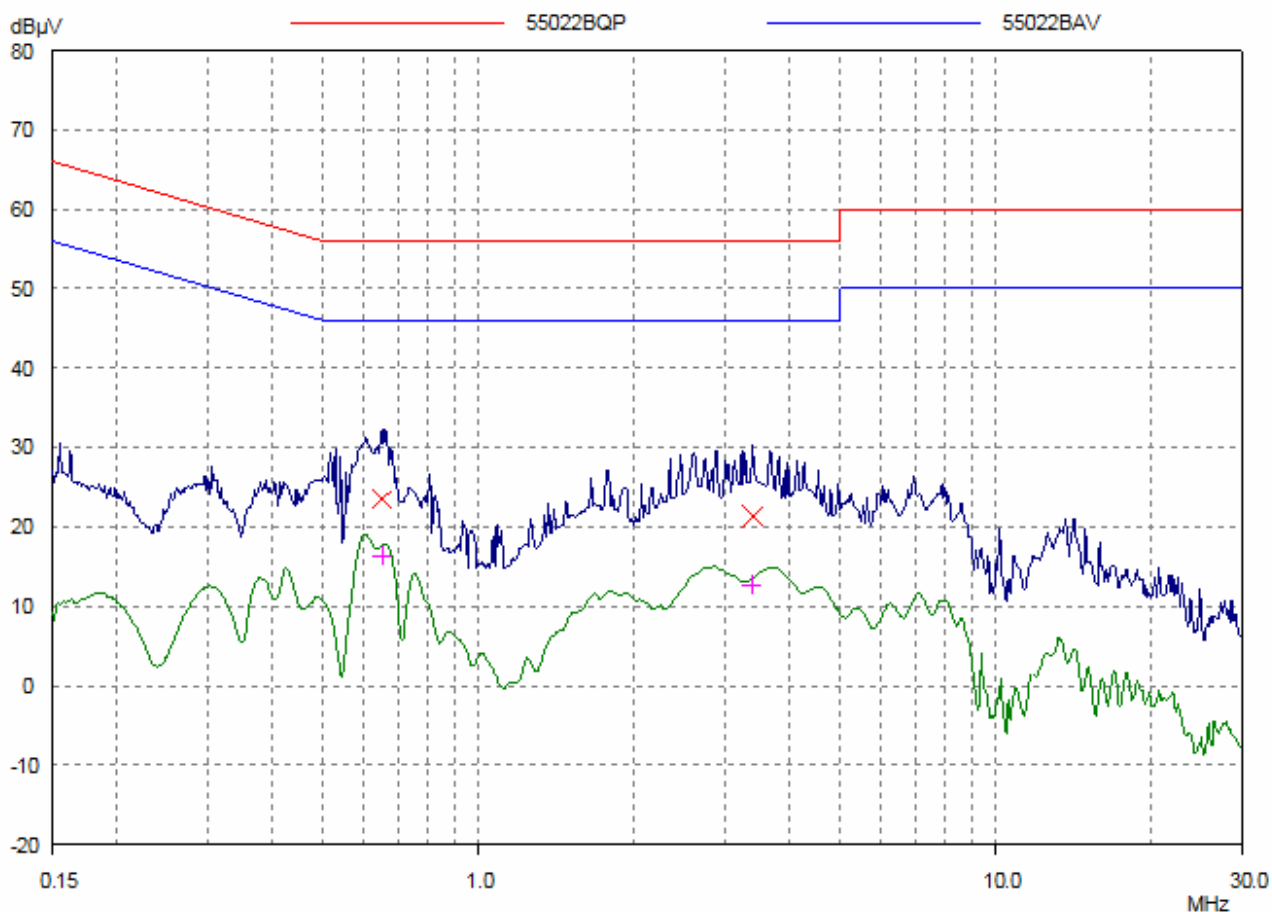
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N line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.64987	23.44	56.00	32.56
3.38188	21.29	56.00	34.71

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.64987	16.36	46.00	29.64
3.38188	12.67	46.00	33.33

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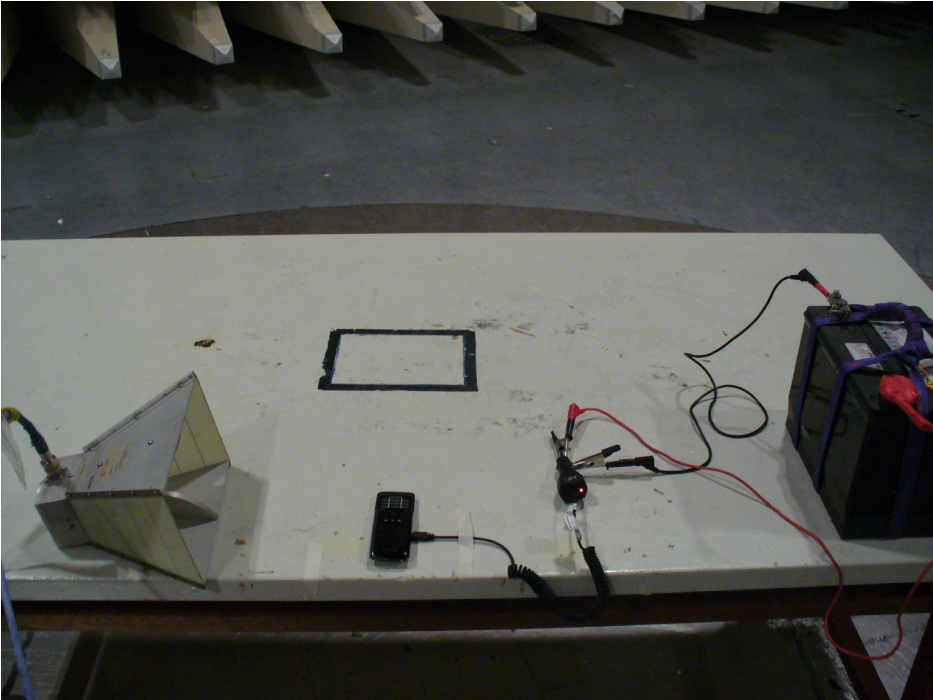
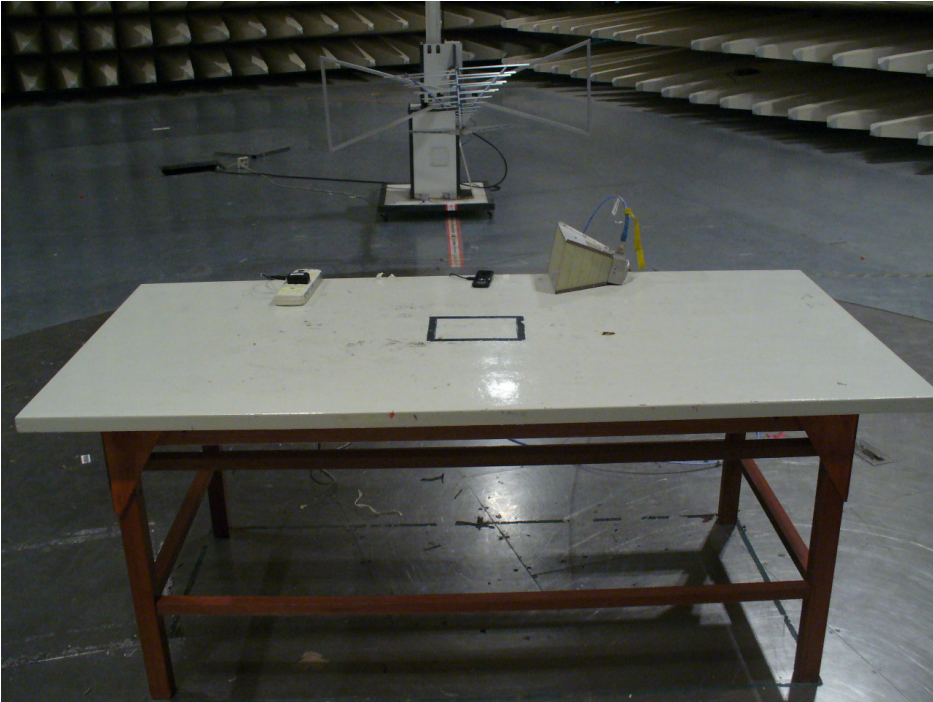
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7 Photographs

7.1 Radiated Emission Test Setup

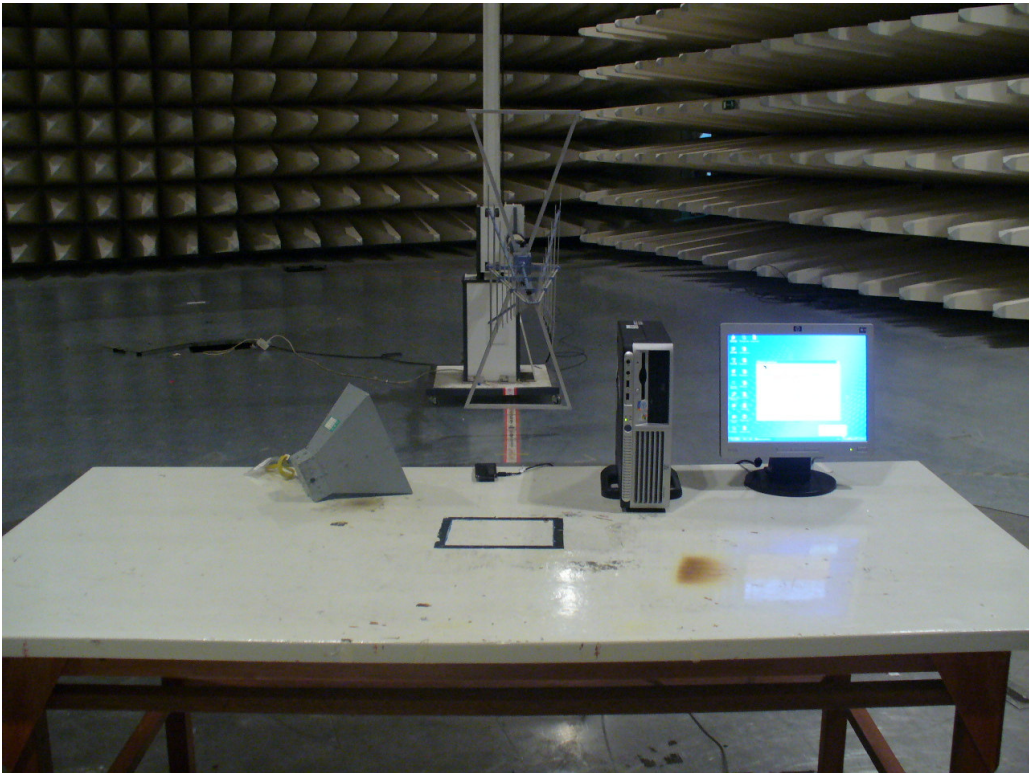
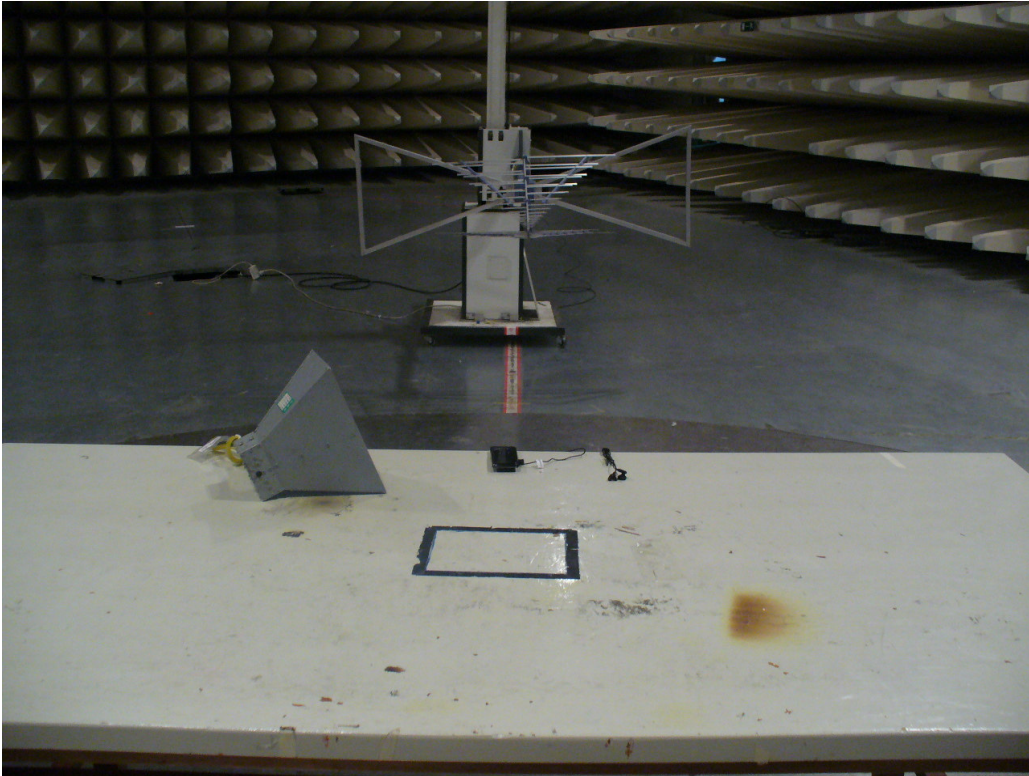


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7.2 EUT Constructional Details



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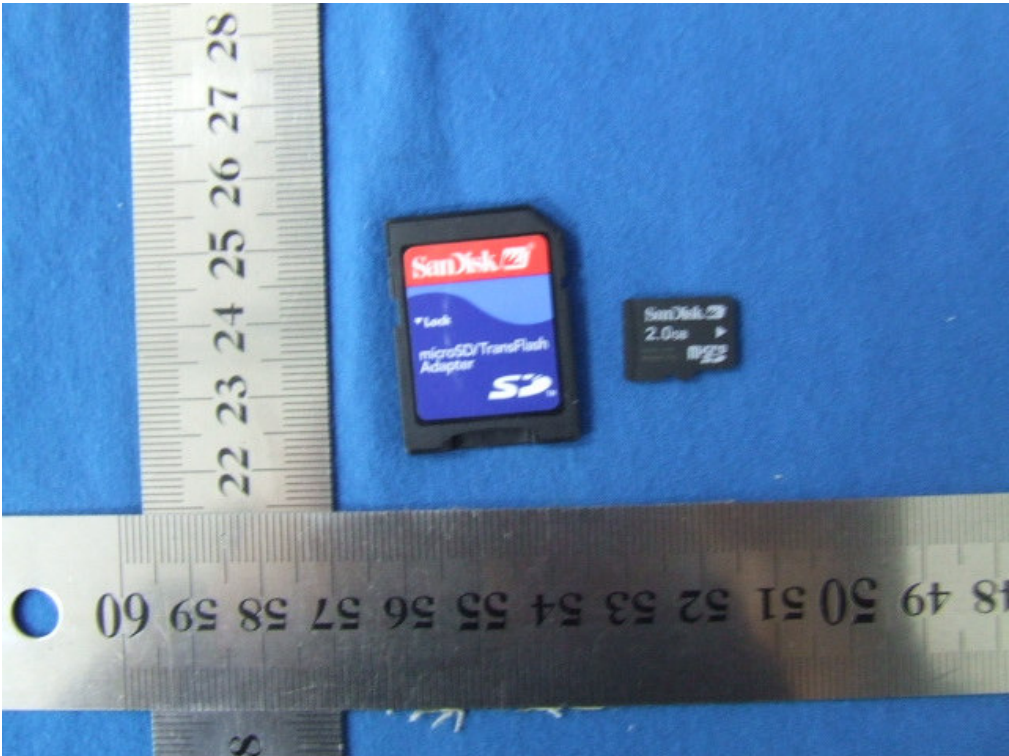
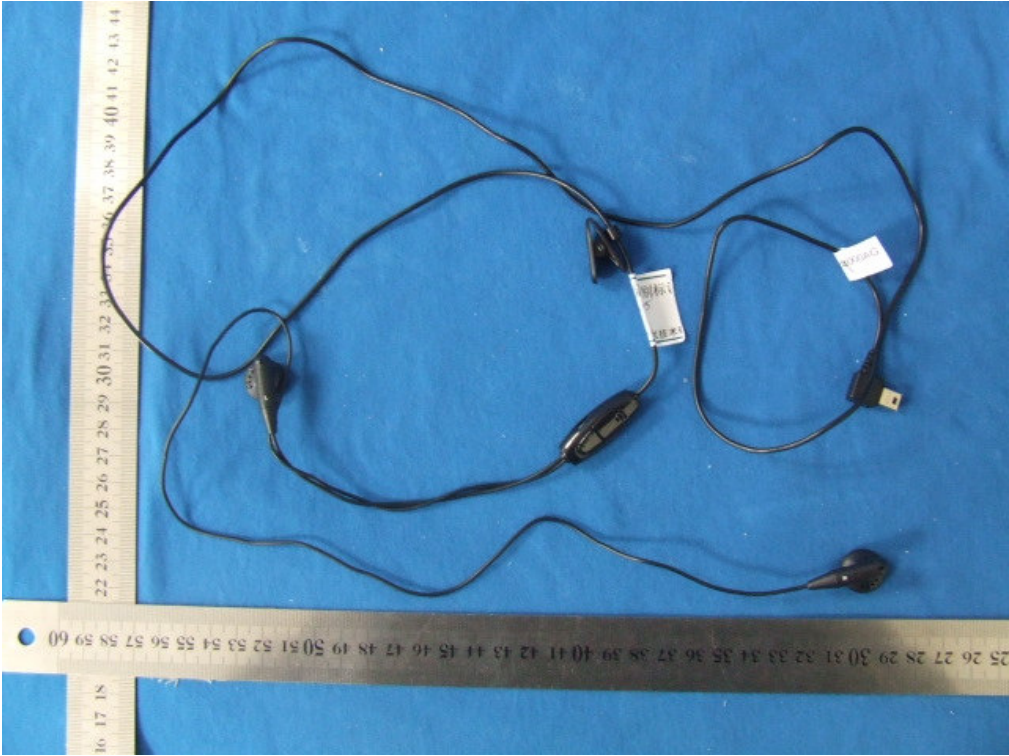


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