

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

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Report No.: SHEMO060900006IT
Page 1 of 21

FCC TEST REPORT(DOC)

Application No.: SHEMO060900006IT

Applicant: ImCoSys Ltd.

Equipment Under Test (EUT):

NOTE: The following sample(s) submitted was/were identified on behalf of the client as

EUT Name: Smart Phone

Model No.: I-SM1

Marketing Name: Imcosys

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: 6 September 2006

Date of Test: 8 September 2006 to 29 October 2006

Date of Issue: 30 October 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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Report No.: SHEMO060900006IT
Page 2 of 21

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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Report No.: SHEMO060900006IT
Page 3 of 21

3 Contents

	Page
1 COVER PAGE.....	1
2 TEST SUMMARY.....	2
3 CONTENTS	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF E.U.T.....	4
4.3 DETAILS OF E.U.T.	4
4.4 DESCRIPTION OF SUPPORT UNITS	4
4.5 STANDARDS APPLICABLE FOR TESTING.....	4
4.6 TEST LOCATION.....	5
4.6 DEVIATION FROM STANDARDS	5
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	ERROR! BOOKMARK NOT DEFINED.
4.8 MONITORING OF EUT FOR ALL IMMUNITY TEST.....	ERROR! BOOKMARK NOT DEFINED.
4.9 TEST CONFIDENT LEVEL	5
5 EQUIPMENTS USED DURING TEST	6
6 EMISSION TEST RESULTS.....	7
6.1 RADIATED EMISSIONS, 30MHZ TO 1GHZ.....	7
6.1.1 E.U.T. Operation.....	7
6.1.2 Test setup:	7
6.1.3 Test Result:	8
6.2 CONDUCTED EMISSIONS, 150KHZ TO 30MHZ	10
6.2.1 E.U.T. Operation.....	10
6.2.2 Test Result and Partial Measurement Data	10
7 PHOTOGRAPHS.....	15
7.1 RADIATED EMISSION TEST SETUP.....	15
7.2 CONDUCTED EMISSION TEST SETUP	16
7.3 EUT CONSTRUCTIONAL DETAILS	16

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Report No.: SHEMO060900006IT
Page 4 of 21

4 General Information

4.1 Client Information

Applicant: ImCoSys Ltd.
Address of Applicant: ImCoSys AG Bundesstrasse 5 CH-6300 Zug

4.2 General Description of E.U.T.

EUT Name: Smart Phone
Model No.: I-SM1
Marketing Name: Imcosys
GSM Frequency Bands GSM850/PCS1900

4.3 Details of E.U.T.

Power Supply Input: AC 100~240V 50/60Hz; 0.2A
Output: 5V, 1A
Trade name : DVE
Model number: DSA-5P-05 FUS

Power Cord 2m

Headset Trade name: Imcosys
Model number: ISM1HS

USB data cable Trade name : Imcosys
Model number: ISM1U

USB-RS232 data cable: Trade name: Imcosys
Model number: ISM1UR

Battery Trade name: Imcosys
Model number: ISM1B

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 a smart Phone.

The standards used was CFR 47 part 2: 2004 and CFR 47 part 15: 2005:

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Report No.: SHEMA060900006IT
Page 5 of 21

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

The test of 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

4.6 Deviation from Standards

None.

4.7 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, 2006.

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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Report No.: SHEMO060900006IT
Page 6 of 21

5 Equipments Used during Test

Radiated Emission Test in Chamber CFR 47 part 15: 2005

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
1	HORN ANTENNA	R&S	HF 906	100023	2006.07.24	2007.07.23
2	BROADBAND ANTENNA	R&S	HL 562	100019	2006.10.10	2007.10.09
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2006.08.13	2007.08.13
4	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2006.09.01	2007.08.31

Conducted Emission CFR 47 part 15: 2005

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
1	EMI test receiver	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	Cal. 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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Report No.: SHEMO060900006IT
Page 7 of 21

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:	8 September 2006 to 29 October 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

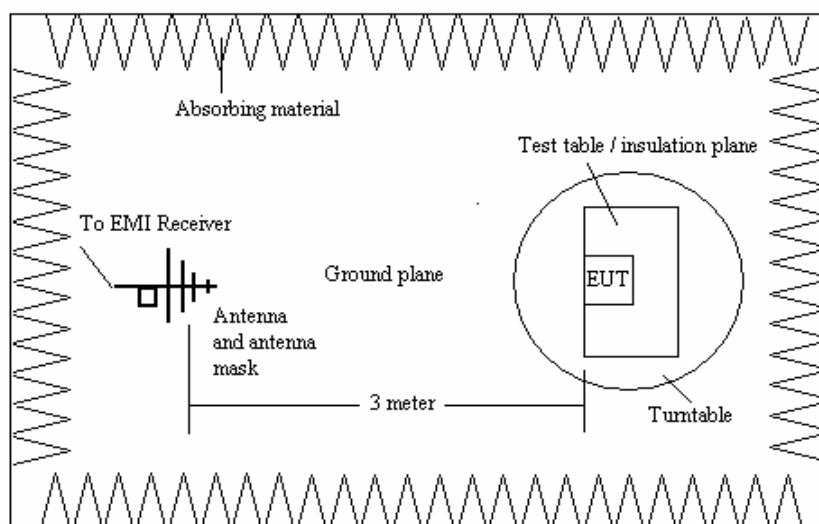
Operating Environment:

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

EUT Operation: Test EUT was tested with all the functions enabled

We just choose the worst case in this report.

6.1.2 Test setup:



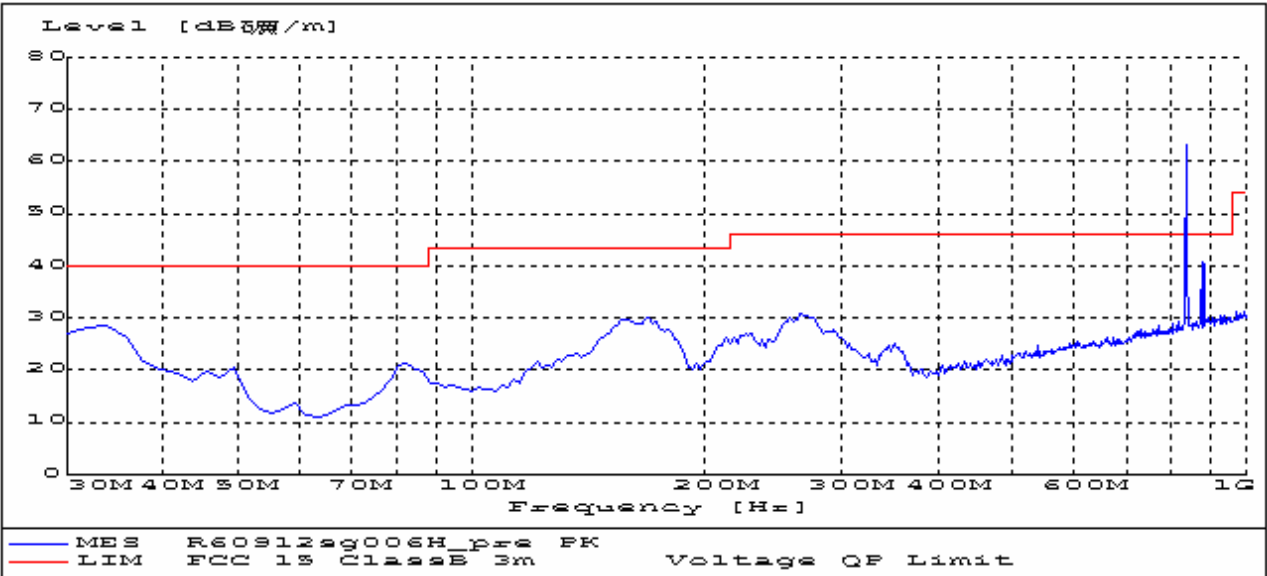
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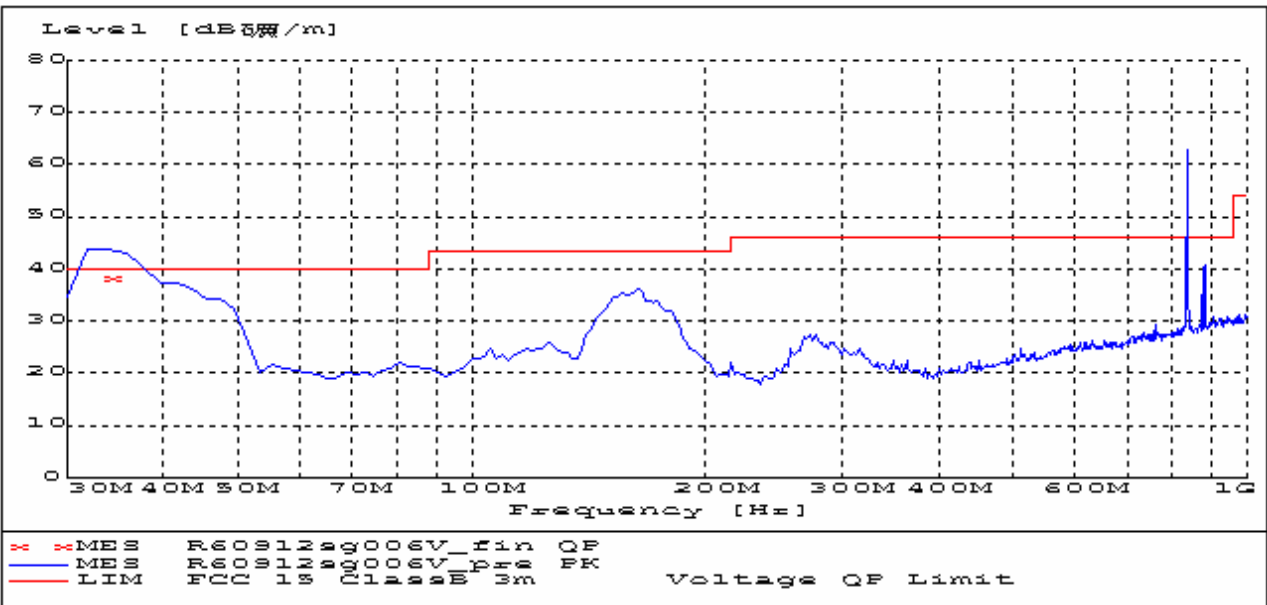
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Report No.: SHEMA0060900006IT
Page 8 of 21

6.1.3 Test Result:
GSM 850 communicating with the charger and earphone
Horizontal:



Vertical



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBμV/m	cm	deg	
34.208417	38.11	100.0	270.00	VERTICAL

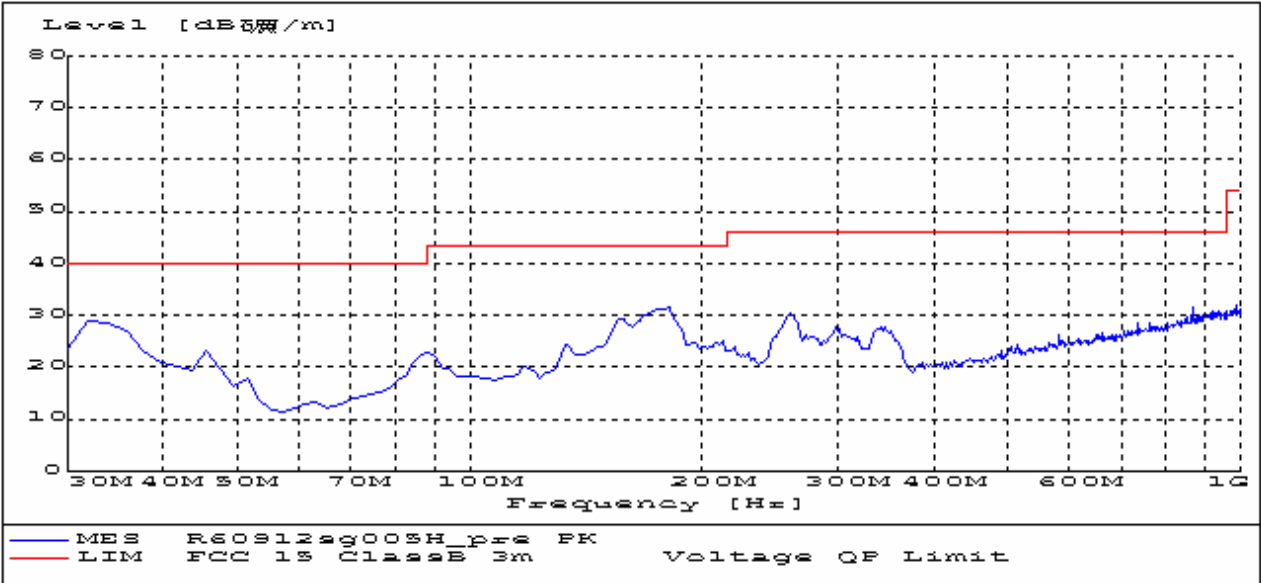
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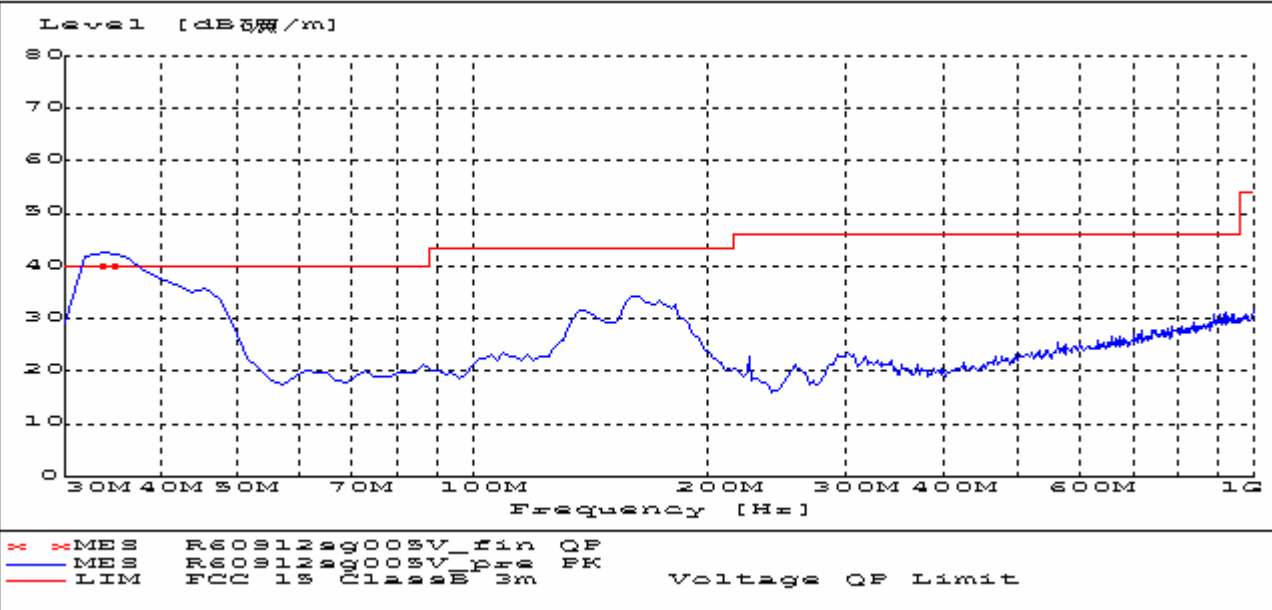
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Report No.: SHEMA060900006IT
Page 9 of 21

PCS1900 communicating with the charger and earphone
Horizontal:



Vertical



Frequency	Level	Height	Azimuth	Polarisation
MHz	dBμV/m	cm	deg	
34.088176	39.94	100.0	270.00	VERTICAL

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Report No.: SHEMA060900006IT
Page 10 of 21

6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15
Test Method:	ANSI C63.4
Test Date:	24 April 2006
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: Test EUT was tested with all the functions enabled

We just choose the worst case in this report

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.

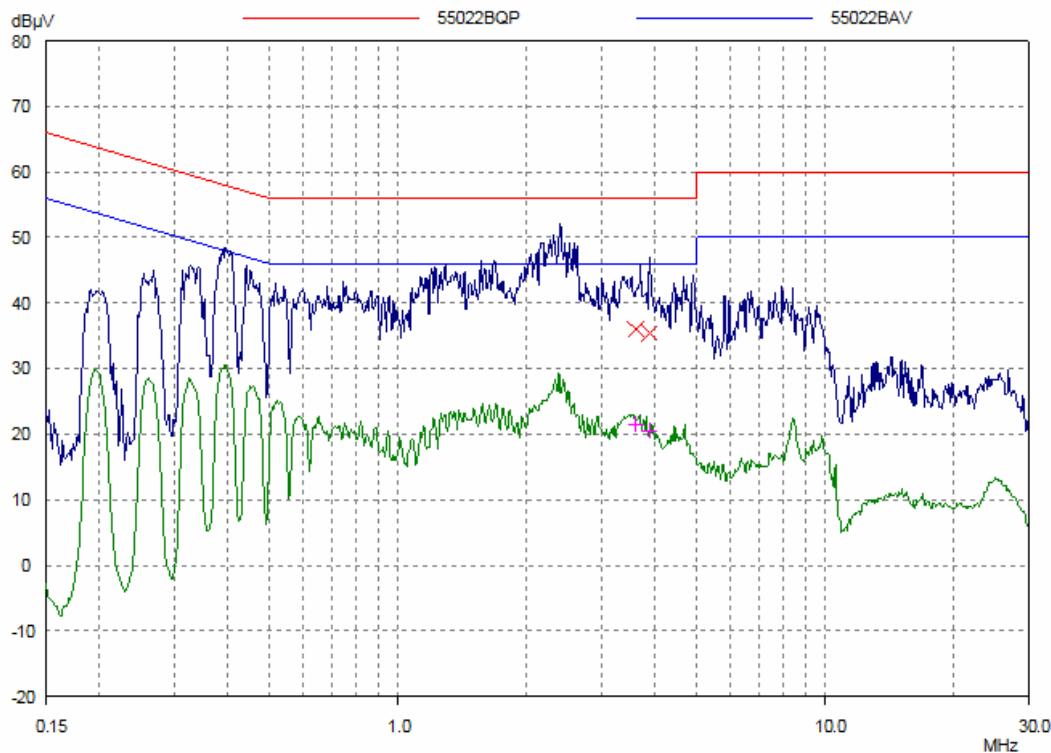
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Report No.: SHEMA060900006IT
Page 11 of 21

GSM 850 dedicated, charging with adaptor:
L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
3.60448	35.92	56.00	20.08
3.87247	35.41	56.00	20.59

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
3.60448	21.55	46.00	24.45
3.87247	20.46	46.00	25.54

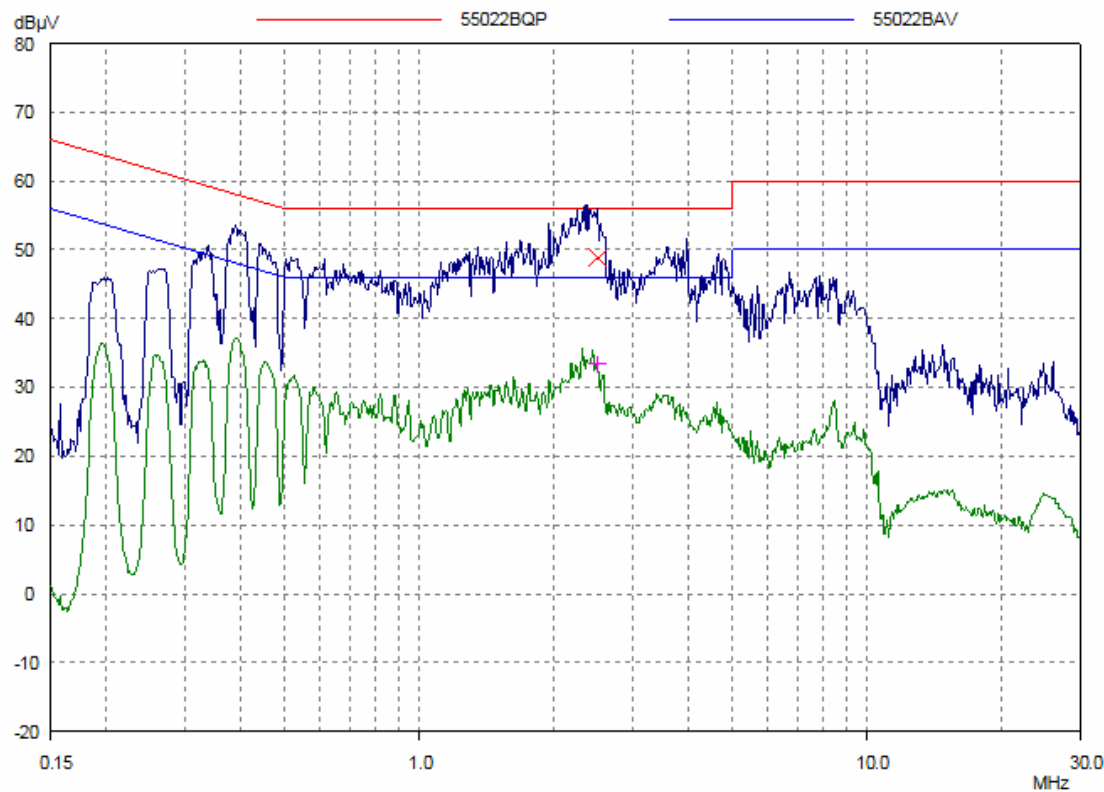
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Report No.: SHEMA060900006IT
Page 12 of 21

N Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.49838	48.78	56.00	7.22

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
2.49838	33.35	46.00	12.65

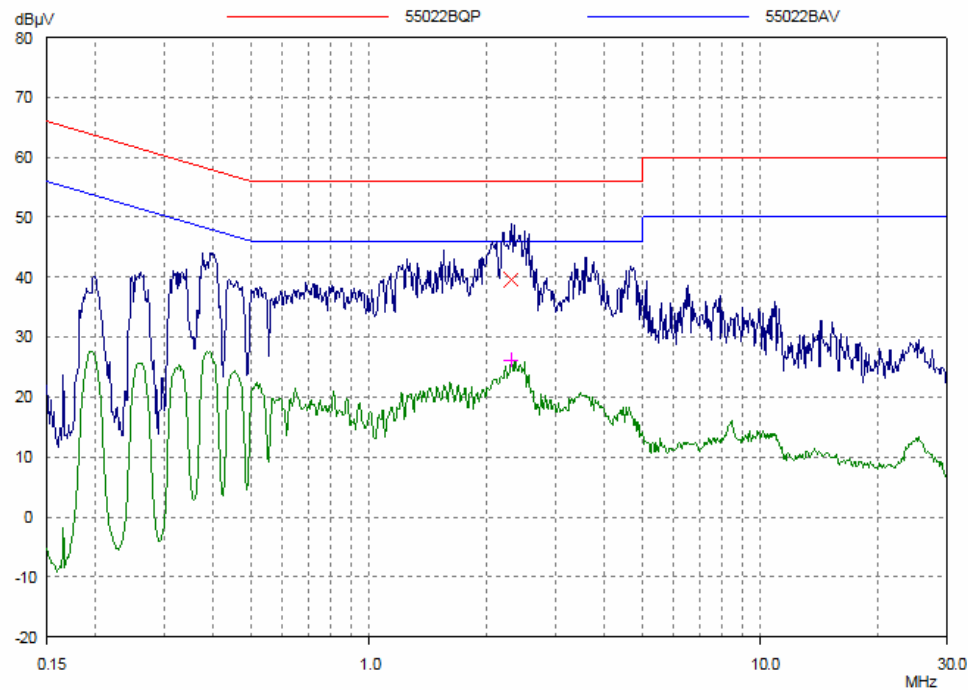
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Report No.: SHEMA060900006IT
Page 13 of 21

PCS 1900 dedicated, charging with adaptor:
L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.30703	39.53	56.00	16.47

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
2.30703	26.05	46.00	19.95

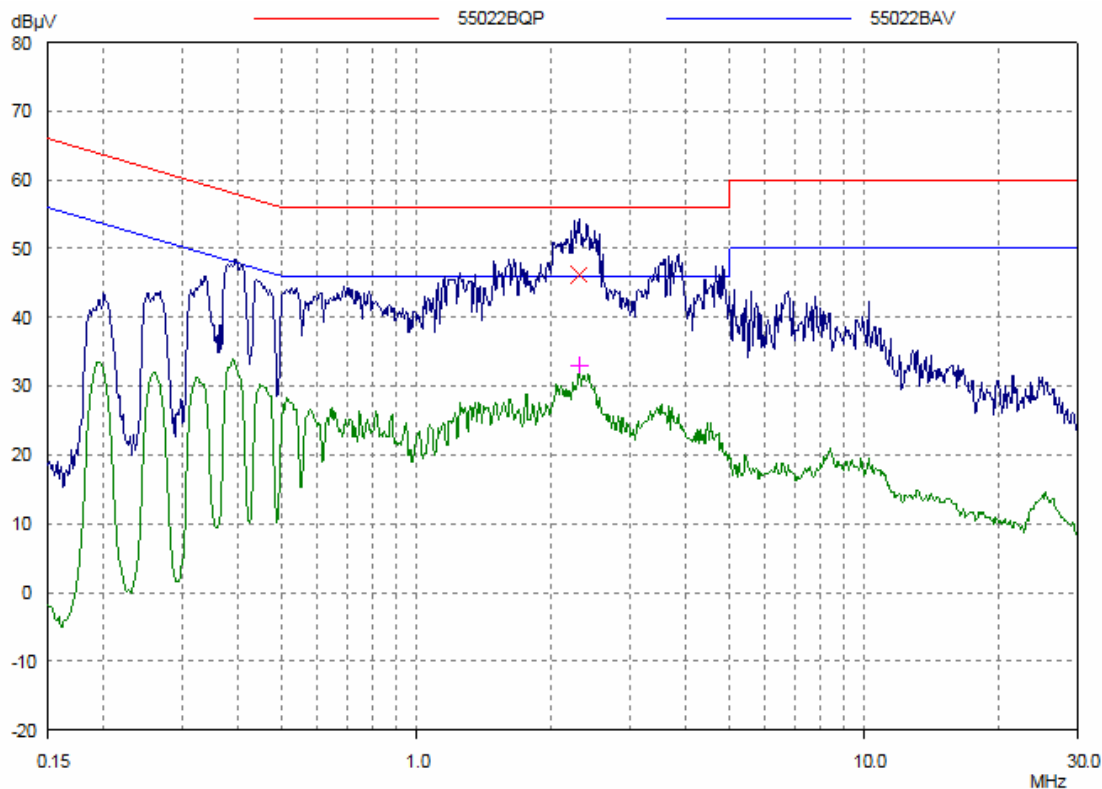
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Report No.: SHEMA060900006IT
Page 14 of 21

N Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.30703	46.20	56.00	9.80
Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
2.30703	32.86	46.00	13.14

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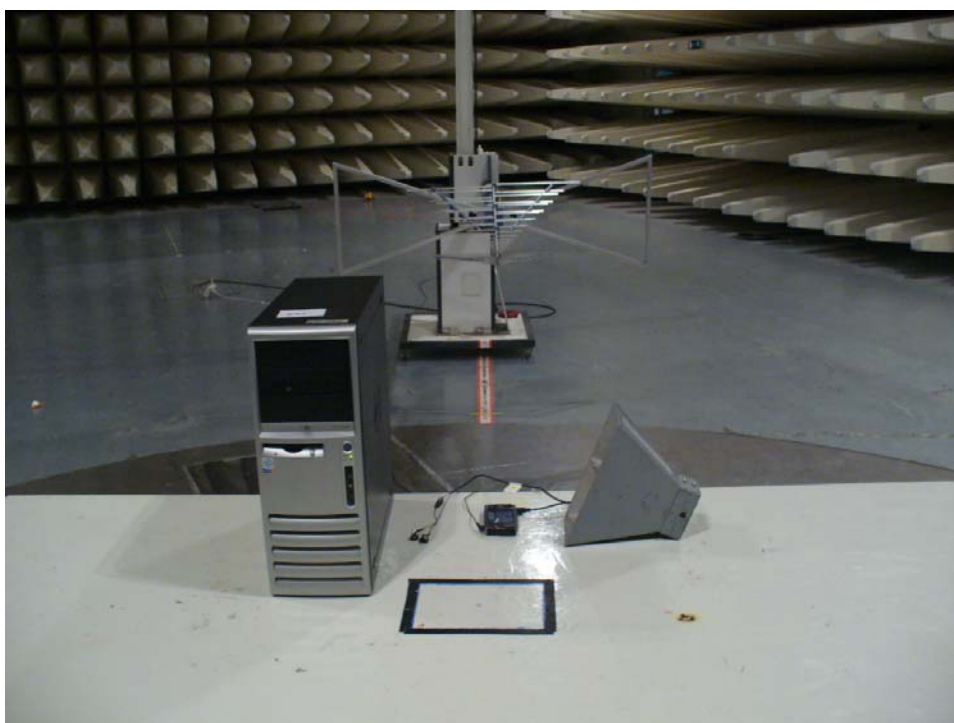
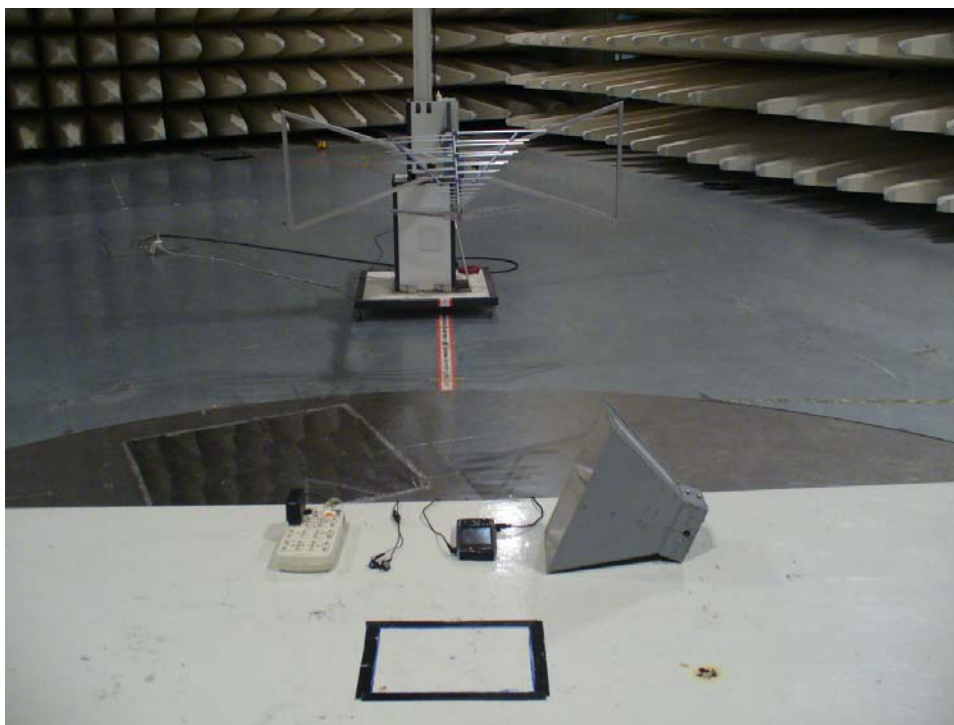
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Report No.: SHEMO060900006IT
Page 15 of 21

7 Photographs

7.1 Radiated Emission Test Setup



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Report No.: SHEMO060900006IT
Page 16 of 21

7.2 Conducted Emission Test Setup



7.3 EUT Constructional Details



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Report No.: SHEMO060900006IT
Page 17 of 21



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Report No.: SHEMA060900006IT
Page 18 of 21

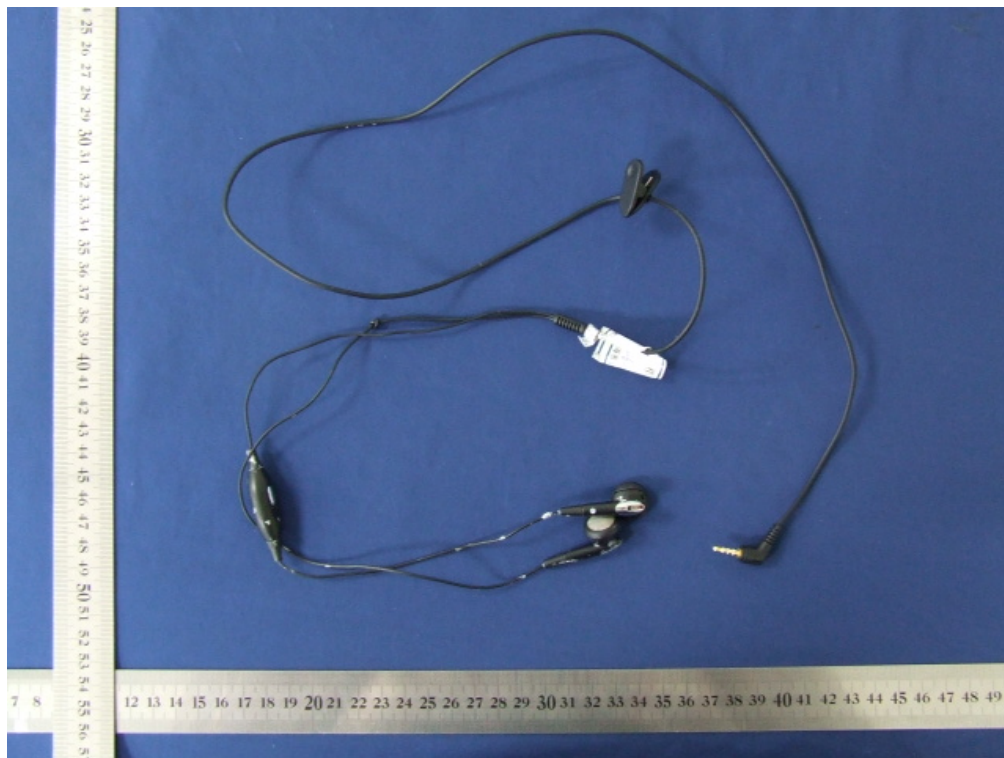


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Report No.: SHEMO060900006IT
Page 19 of 21

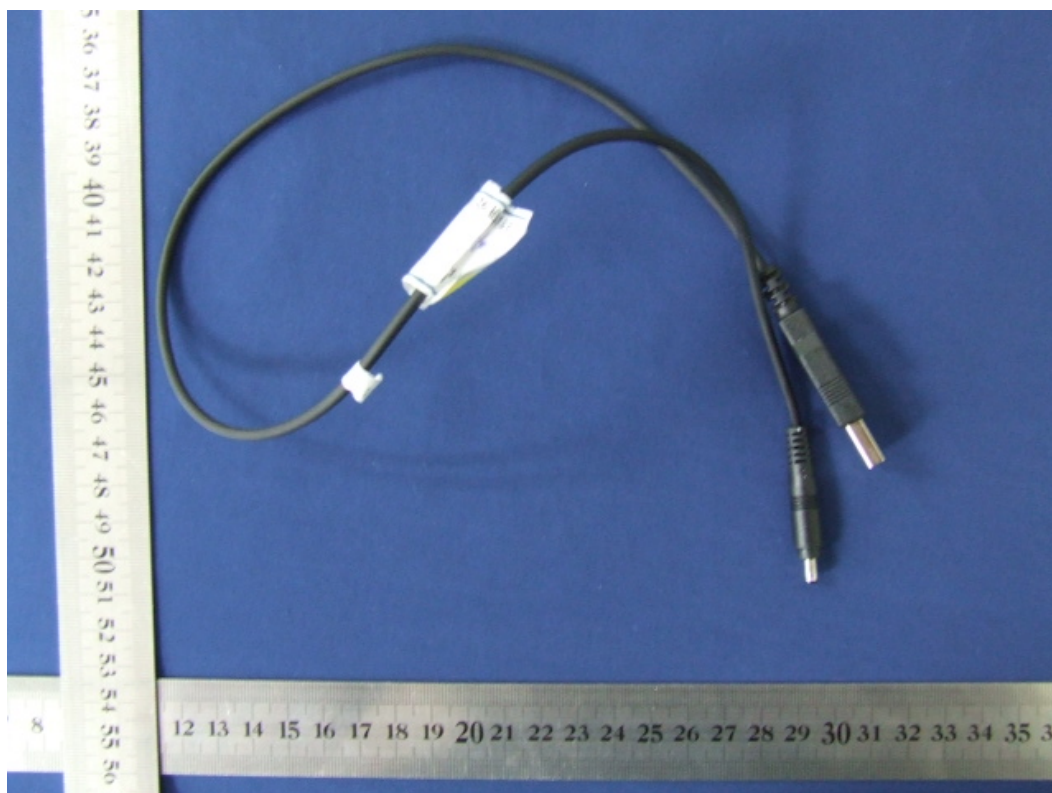


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Report No.: SHEMO060900006IT
Page 20 of 21



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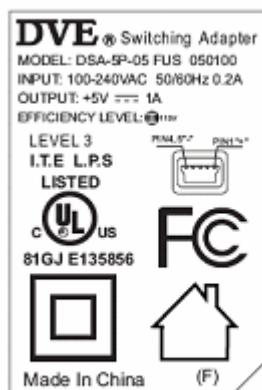
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Report No.: SHEMA060900006IT
Page 21 of 21



Picture of the US adapter lable



4:1

THE END OF REPORT