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FCC TEST REPORT(DOC)

Application No.: SHEMO060600028IT **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 No.: D6Da

Marketing Name: OT-C635a

Item No.: Not supplied by client Serial No.: Not supplied by client CFR 47 part 2: 2004,

CFR 47 Part 15: 2005,

ANSI C63.4: 2003

Date of Receipt: 27 June 2006

Date of Test: 28 June 2006 to 10 July 2006

Date of Issue: 12 July 2006

Test Result: PASS

Authorized Signature:

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

FC Pan

Jacky Cao E&E Project Engineer SGS-CSTC Co., Ltd

Jarky Cas

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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Test Summary 2

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission	CFR 47 Part 15	ANSI C63.4: 2003	Class B	PASS
30MHz-1000MHz	CFR 4/ Part 15	ANSI C03.4: 2003	Class B	PASS
Conducted Emission	CFR 47 Part 15	ANGL C62 4, 2002	Class P	DACC
150KHz-30MHz	CFR 4/ Part 13	ANSI C63.4: 2003	Class B	PASS

Report No.: SHEMO060600028IT

3 of 28

Page

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3 Contents

			Page
1	CO	OVER PAGE	1
2	TF	EST SUMMARY	2
3	CO	ONTENTS	3
4	GI	ENERAL INFORMATION	4
	4.1	CLIENT INFORMATION	4
		GENERAL DESCRIPTION OF E.U.T.	
		DETAILS OF E.U.T.	
	4.4	DESCRIPTION OF SUPPORT UNITS	5
	4.5	STANDARDS APPLICABLE FOR TESTING	5
	4.6	TEST LOCATION	5
		DEVIATION FROM STANDARDS	
		ABNORMALITIES FROM STANDARD CONDITIONS	
		MONITORING OF EUT FOR ALL IMMUNITY TEST	
	4.9	TEST CONFIDENT LEVEL	6
5	E	QUIPMENTS USED DURING TEST	7
6	EN	MISSION TEST RESULTS	8
	6.1	RADIATED EMISSIONS, 30MHz to 1GHz	8
	6.1		
		1.2 Test setup:	
		1.3 Test Result:	
	6.2	CONDUCTED EMISSIONS, 150kHz to 30MHz	
	6.2		
	6.2		17
7	PF	HOTOGRAPHS	24
		RADIATED EMISSION TEST SETUP	
	7.2	CONDUCTED EMISSION TEST SETUP	25
	7.3	EUT CONSTRUCTIONAL DETAILS	25

1/F, 7/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6495 1616 Report No.: SHEMO060600028IT

Fax: +86 (0) 21 5450 0954 Page 4 of 28

Tino_Pan@sgs.com

4 General Information

4.1 Client Information

Applicant: T&A Mobile Phones

Address of Applicant: 4/F, No. 2966, JinKe Road, Zhangjiang High-Tech Park Shanghai

P.R China 201203

4.2 General Description of E.U.T.

EUT Name: GSM Mobile Phone

Model No.: D6Da

Marketing Name: OT-C635a

Brand Name Not supplied by client Serial No.: Not supplied by client

4.3 Details of E.U.T.

Power Supply01: AC to DC charger (Model NO: 3DS10628AGAA Input: AC 100V-

240V~, 50/60Hz 100mA Output: DC 4.5V, 0.35A)

Manufactures: Tenpao

Power Cord01: 2.0m

Power Supply02: AC to DC charger (Model NO: 3DS09371AGAA Input: AC 100V-

127V~, 50/60Hz 150mA Output:DC 4.5V, 0.35A)

Manufactures: Leader

Power Cord02: 2.0m

Data cable01: Product model name: JW-DC101 D6 data cable

Manufactures: Shenzhen Juwei Electronic Co.,Ltd

Data cable02: Product model: PTT-A-0603A

Manufactures: Shenzhen Putiantong Cyber Industry Co. Ltd

Headset P/N: 3DS07855AAAA

Manufacturers: Merry

Battery DC 3.7V / 650mAh

P/N: T5000157AAAA

Identification No.: GSM60035AR,

Manufacturers: BYD

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Telephone: +86 (0) 21 6495 1616 Report No.: SHEMO060600028IT

Fax: +86 (0) 21 5450 0954 Page 5 of 28

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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 GSM Mobile Phone.

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	$\sqrt{}$

 \times Indicates that the test is not applicable $\sqrt{}$ 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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Telephone: +86 (0) 21 6495 1616 Report No.: SHEMO060600028IT

Fax: +86 (0) 21 5450 0954 Page 6 of 28

Tino_Pan@sgs.com

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Monitoring of EUT for All Immunity Test

N/A

4.9 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, Dcember 9, 2002. With the above and NVLAP, SIMT is an authorized test laboratory for the DoC process.

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Telephone: +86 (0) 21 6495 1616 Report No.: SHEMO060600028IT Fax: +86 (0) 21 5450 0954 Page 7 of 28

Fax: +86 (0) 21 5450 0954 Tino_Pan@sgs.com Page 7 of 28

5 Equipments Used during Test

	RE in SAC	ETSI EN 3	01 489-1: EN 5	5022	1	T
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due date
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	2005-07-25	2006-07-24
2	DMM	Fluke	73	70681569 or 70671122	2005-07-23	2006-07-22

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Telephone: +86 (0) 21 6495 1616 Report No.: SHEMO060600028IT

Fax: +86 (0) 21 5450 0954 Page 8 of 28

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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 5, 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

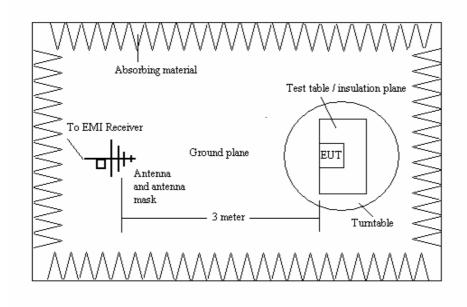
Operating Environment:

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

EUT Operation: EUT allocated channel mode GSM850, PCS 1900 with headset,

adapter and data cable

6.1.2 Test setup:



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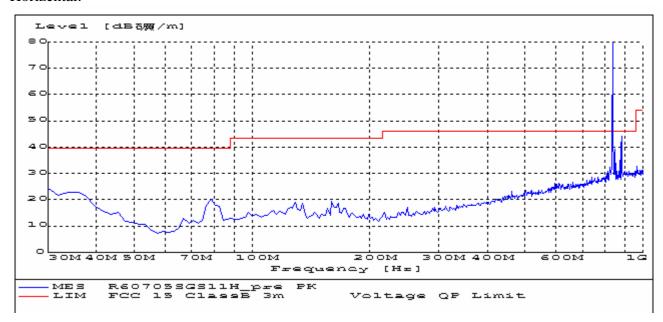
+86 (0) 21 6495 1616 Report No.: SHEMO060600028IT Telephone:

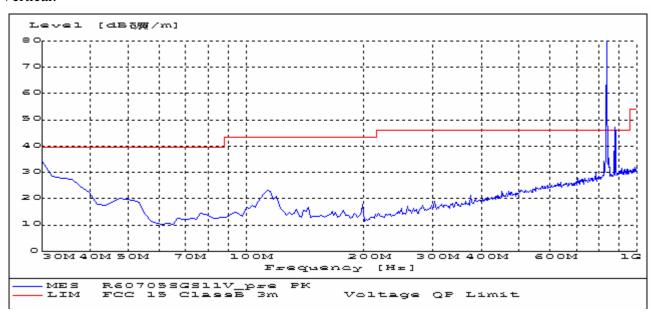
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6.1.3 Test Result:

GSM850 dedicated: (test with the adapter of Tenpao and earphone)

Horizental:





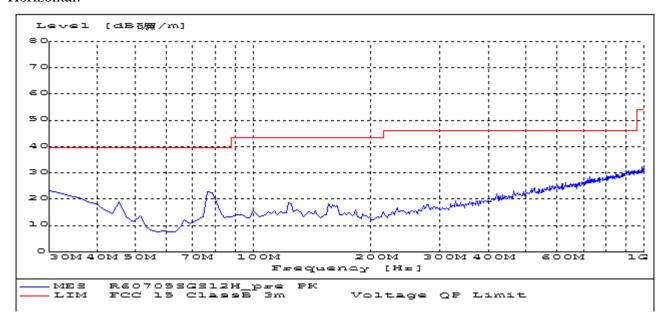
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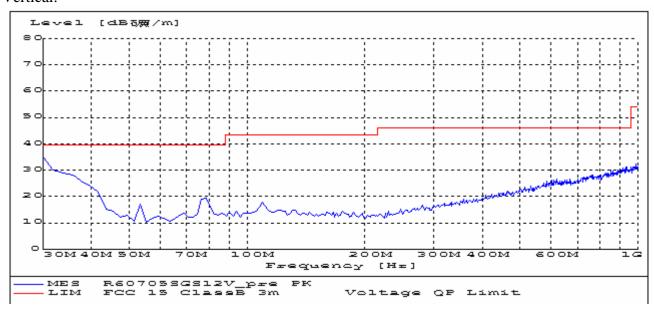
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Fax: +86 (0) 21 5450 0954
Tino_Pan@sgs.com
Page 10 of 28

GSM1900 dedicated: (test with the adapter of Tenpao and earphone)

Horizontal:





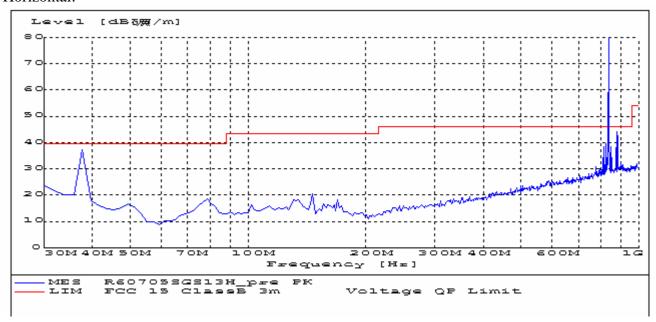
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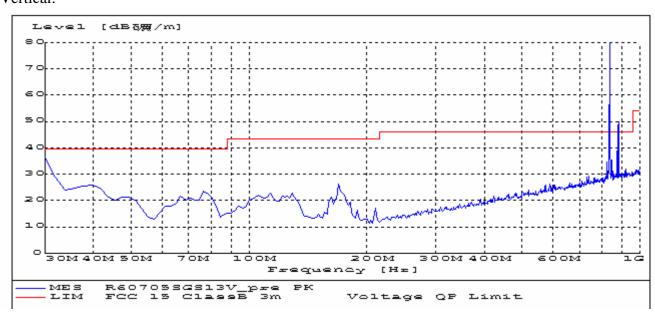
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Fax: +86 (0) 21 5450 0954
Tino_Pan@sgs.com
Page 11 of 28

GSM850 dedicated: (test with the adapter of Leader and earphone)

Horizontal:



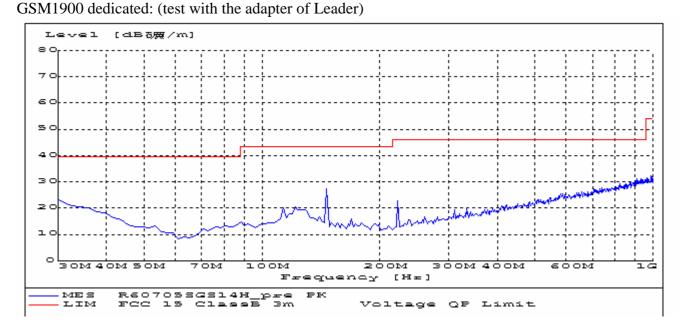


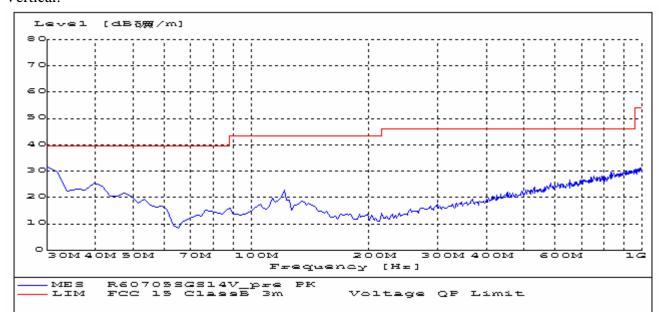
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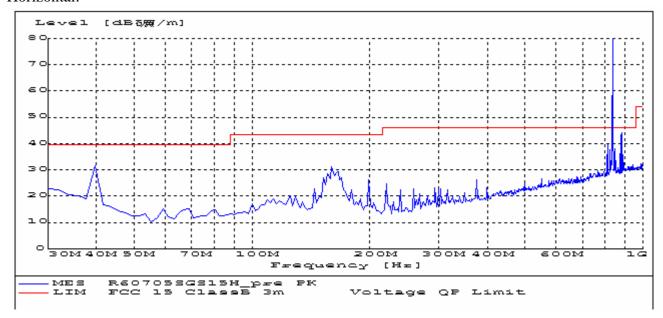
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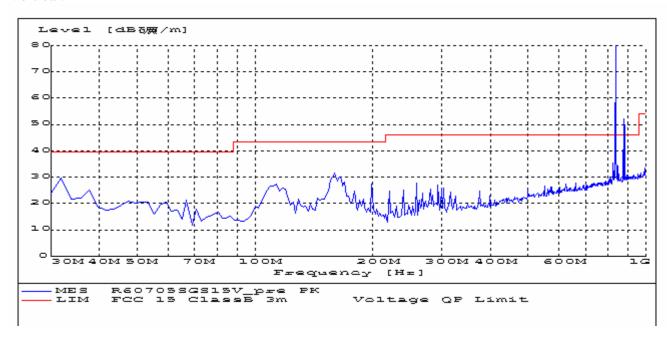
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GSM850 dedicated: (test with the adapter of tenpao and data cable 01)

Horizontal:





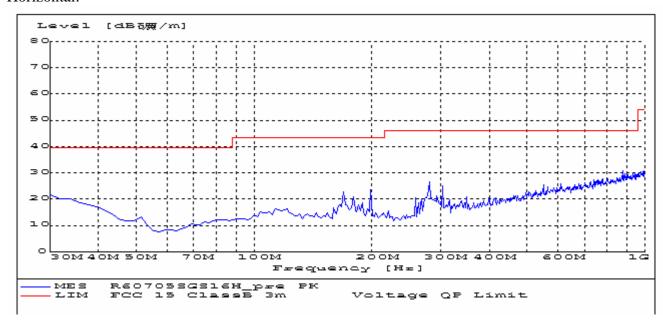
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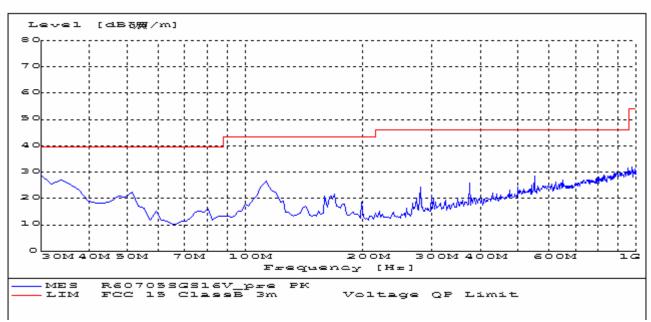
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Tino_Pan@sgs.com
Page 14 of 28

PCS1900 dedicated: (test with the adapter of tenpao and data cable01)

Horizontal:





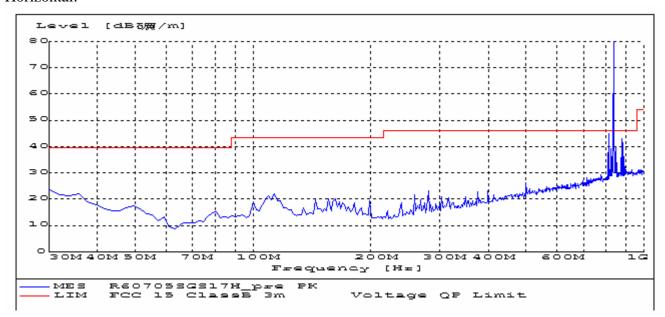
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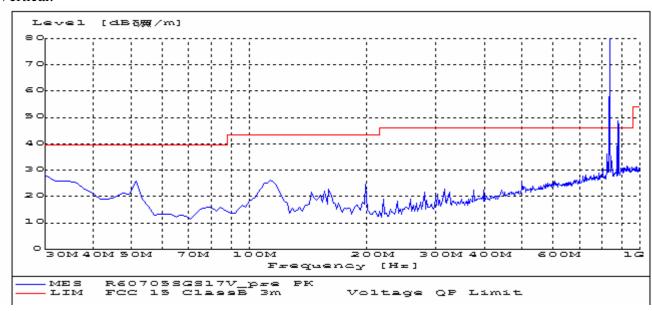
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Tino_Pan@sgs.com
Page 15 of 28

GSM850 dedicated: (test with the adapter of tenpao and data cable02)

Horizontal:





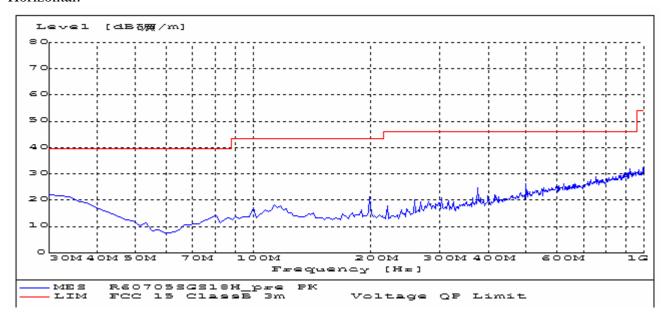
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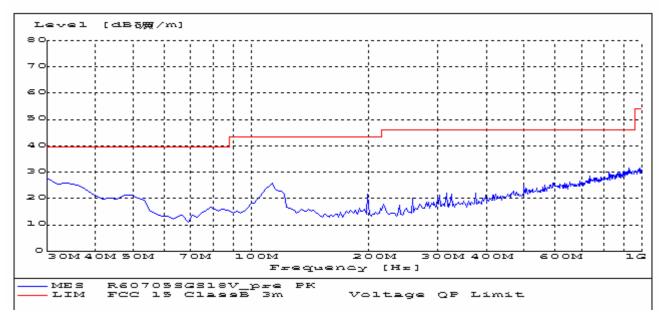
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Tino_Pan@sgs.com
Page 16 of 28

PCS1900 dedicated: (test with the adapter of tenpao and data cable02)

Horizontal:





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Fax: +86 (0) 21 5450 0954 Page 17 of 28

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6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement: CFR 47 part 15
Test Method: ANSI C63.4
Test Date: 10 July 2006

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: 24.0°C Humidity: 58% RH Atmospheric Pressure:

EUT Operation: Test EUT is the in the allocated channel mode GSM850, PCS 1900 with

headset, adapter and data cable, and we just choose the worst case

(communicating with adapter and earphone) 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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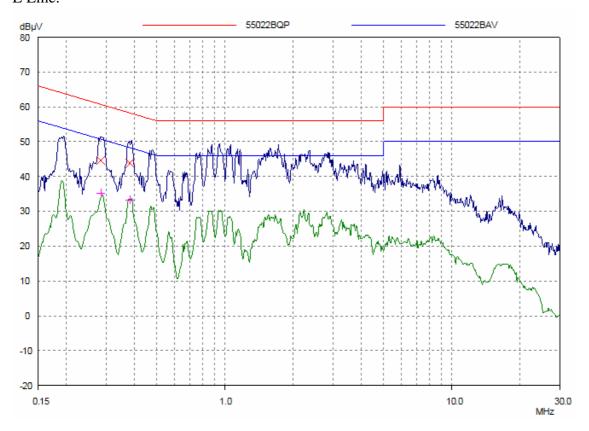
Page 18 of 28

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Power Supply1:

GSM 850 dedicated, charging with adaptor and earphone.

L Line:



Final Measurement Results					
Frequency	QP Level	QP Limit	QP Delta		
MHz	dBµV	dΒμV	dB		
0.28374	44.52	60.71	16.19		
0.38104	43.80	58.26	14.46		
Frequency	AV Level	A∀ Limit	AV Delta		
MHz	dBμV	dBμV	dB		
0.28374	35.09	50.71	15.62		
0.38104	33.20	48.26	15.06		

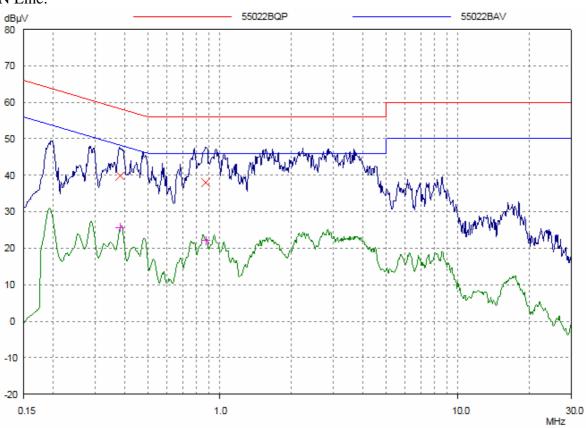
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Page 19 of 28

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N Line:



Final Measurement Results					
Frequency	QP Level	QP Limit	QP Delta		
MHz	dBµV	dBμV	dB		
0.38104	39.85	58.26	18.41		
0.8727	37.94	56.00	18.06		
Frequency	AV Level	AV Limit	AV Delta		
MHz	dBμV	dBμV	dB		
0.38104	25.69	48.26	22.57		
0.8727	22.05	46.00	23.95		

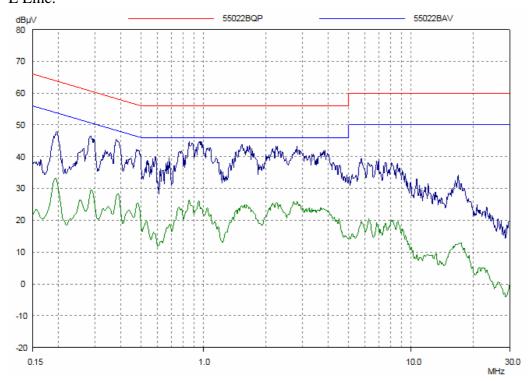
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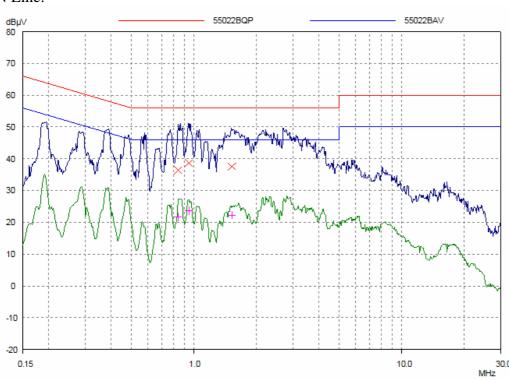
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Page 20 of 28

PCS 1900 dedicated, charging with adaptor and earphone:

L Line:



N Line:



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Page 21 of 28

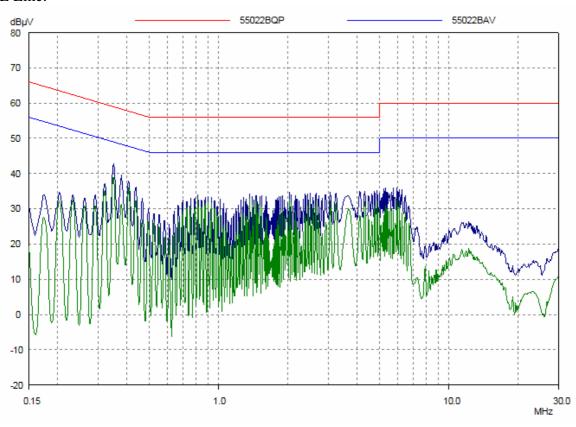
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Final Measurement Results					
Frequency	QP Level	QP Limit	QP Delta		
MHz	dBμV	dBμV	dB		
0.83862	36.39	56.00	19.61		
0.94509	38.65	56.00	17.35		
1.52442	37.47	56.00	18.53		
Frequency	AV Level	AV Limit	AV Delta		
MHz	dBμV	dΒμV	dB		
0.83862	21.60	46.00	24.40		
0.94509	23.57	46.00	22.43		
1.52442	22.24	46.00	23.76		

Power Supply 2:

GSM 850 dedicated, charging with adaptor and earphone:

L Line:



N line:

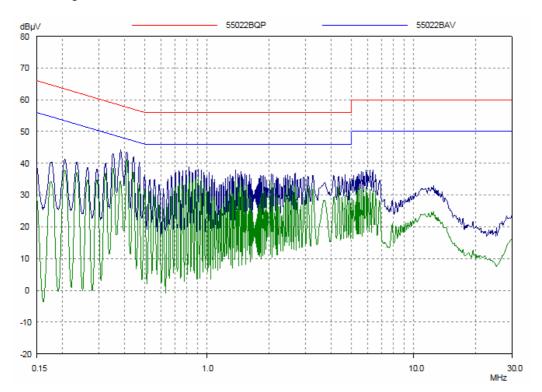
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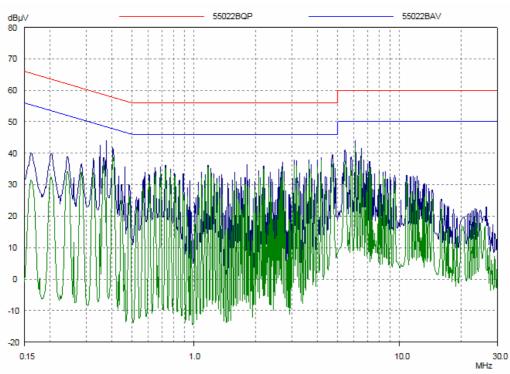
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Report No.: SHEMO060600028IT Page 22 of 28



PCS 1900 dedicated, charging with adaptor:

L Line:



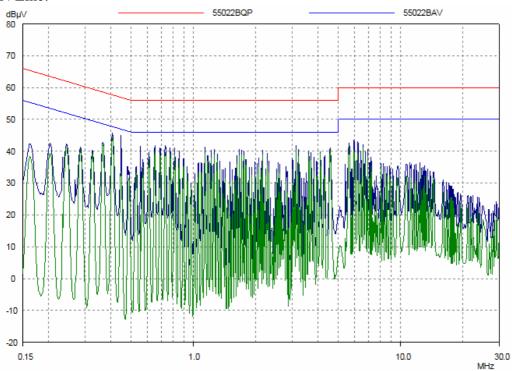
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Page 23 of 28

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N Line:



Frequency	Receiver QP Level	Limit	Margin	Receiver AV Level	Limit	Margin
(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
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	*

[&]quot;*" means the emission level is 10dB lower than the relevant limit.

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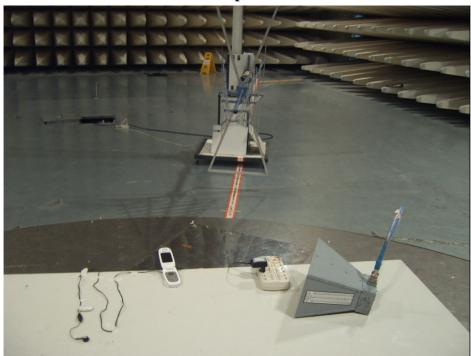
Report No.: SHEMO060600028IT

Page 24 of 28

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7 Photographs

7.1 Radiated Emission Test Setup





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Page 25 of 28

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7.2 Conducted Emission Test Setup



7.3 EUT Constructional Details



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26 of 28 Page





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27 of 28 Page

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28 of 28 Page





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