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Report No.: SHEMO071200014IT Page 1 of 42

# FCC TEST REPORT

Application No.:	SHEMO071200014IT		
Applicant:	T&A Mobile Phones		
Equipment Under T	est (EUT):		
<b>NOTE:</b> The following sat	mple(s) submitted was/were identified on behalf of the client as		
EUT Name:	GSM Mobile Phone		
Model No.:	U7CA		
Marketing Name:	OT-E221A		
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:	December 12, 2007		
Date of Test:	December 12, 2007 to December 27, 2007		
Date of Issue:	December 27, 2007		

Test Result :

Authorized Signature:

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



Benson Shen

Jathy Huang 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.

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.

PASS

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# 2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result	
Radiated Emission	CFR 47 Part 15	ANSI C63.4: 2003	Class B	PASS	
30MHz-1000MHz	CFR 47 Part 15	AINSI C03.4: 2005	Class B	PASS	
Conducted Emission	CED 47 Dart 15	ANSI C63.4: 2003	Class D	DASS	
150KHz-30MHz	CFR 47 Part 15	AINSI C03.4: 2005	Class B	PASS	

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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.:	U7CA
Marketing Name:	OT-E221A
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: T5000436AGAA Input: AC 100V-240V~, 50/60Hz 0.15A Output:DC 5V, 400mA)
	Manufactures: Tenpao
Power Cord01:	2m
Power Supply02:	AC to DC charger (Model NO: T5001448AGAA Input: AC 100V-
	240V~, 50/60Hz 100mA Output:DC 4.5V, 300mA)
	Manufactures: Tenpao
Power Cord02:	2m
Power Supply03:	AC to DC charger (Model NO: 3DS11022AGAA Input: AC 100V-
	240V~, 50/60Hz 0.15A Output:DC 5V, 500mA)
Power Cord03:	2m
Earphone	Model NO.: T5001578AAAA
Battery	DC 3.7V / 750mAh
	P/N: T5001298AAAA (BYD)
	P/N: T5001298AAAA (JINNENG)

### 4.4 Description of Support Units

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

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#### 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 : 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		

 $\sqrt{}$  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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#### 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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# 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	2007.07.24	2008.07.23
2	BROADBAND ANTENNA	R&S	HL 562	100019	2007.10.10	2008.10.09
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2007.08.13	2008.08.13
	UNIVERSAL RADIO					
4	COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2007.09.01	2008.08.31
	Conducted Emission	CFR 47 part 15: 2	2005	1		1
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
1	EMI TEST RECEIVER	R&S	ESCS 30	100070	2007.08.28	2008.08.27
2	ARTIFICIAL MAINS NETWORK	R&S	ESH2-Z5	100030	2007.09.19	2008.09.18
2	UNIVERSAL RADIO					
3	COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2007.09.01	2008.08.31
	General Equipment					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
1	Temperature, Humidity &	Oregon	BA-888	EMC0001 to	2007.07.25	2008.07.24
1	Barometer	Scientific	DA-000	EMC0004	2007.07.23	2008.07.24
2	DMM	Fluke	73	70681569 or	2007.07.23	2008.07.22
2		TTUKC	15	70671122	2007.07.23	2008.07.22

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# 6 Emission Test Results

#### 6.1 Radiated Emissions, 30MHz to 1GHz

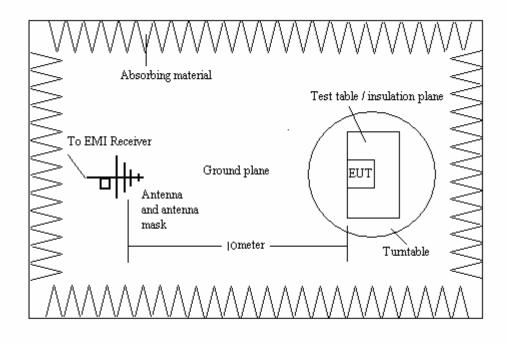
Test Requirement:	CFR 47 Part 15
Test Method:	ANSI C63.4, CISPR 22
Test Date:	December 12, 2007 to December 27, 2007
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m for ANSI C63.4 and 10m for CISPR 22
Class:	N/A
Detector:	Peak for pre-scan (120kHz resolution bandwidth)

#### 6.1.1 E.U.T. Operation

**Operating Environment:** 

Temperature:	25.0°C	Humidity:	55 % RH	Atmospheric Pressure:	1004 m	ıbar
EUT Operation:	EUT alloca	ted channel mode	Charging, GSN	M850, PCS 1900.		

#### 6.1.2 Test setup:



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#### 6.1.3 Test Result and Partial Measurement Data

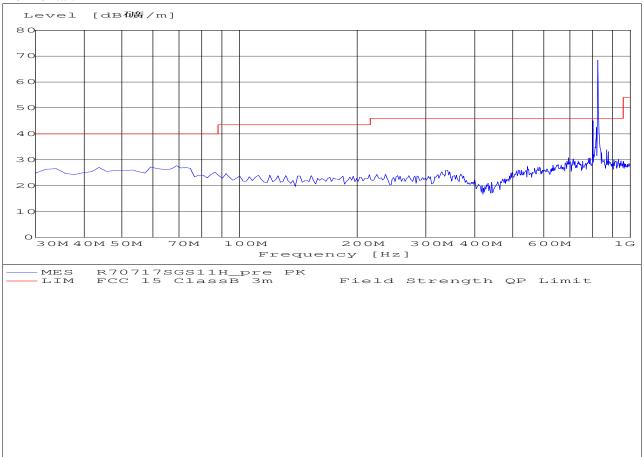
#### Pass

An initial pre-scan was performed in the SAC using the receiver in peak detection mode. The EUT was measured for two orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.

**Note:** The test was performed for all the functions and modes, and the data shown below is the worst case.

GSM 850 connected: (test Mobile with T5000436AGAA of TenPao power adaptor.)

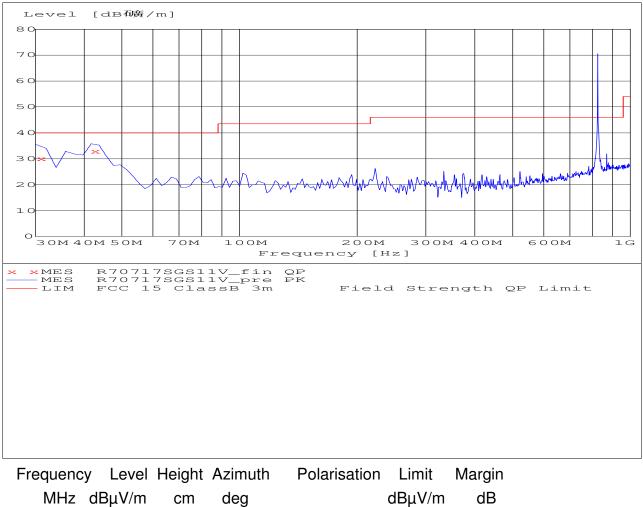
Horizontal:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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#### Vertical:



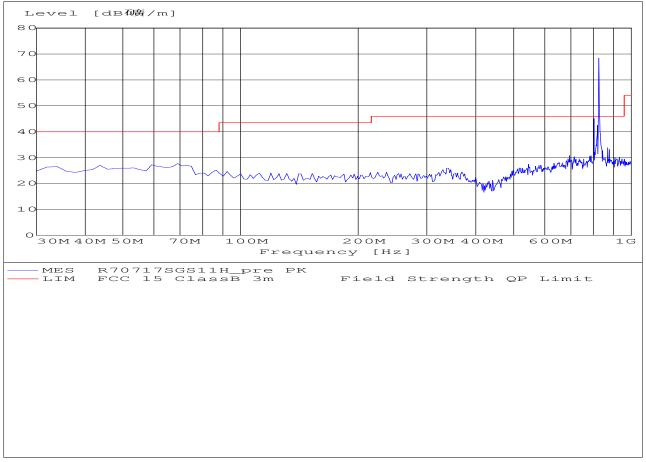
30.861720	29.86	100.0	250.00	VERTICAL	40.00	10.14
42.394790	32.89	100.0	60.00	VERTICAL	40.00	7.11

1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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#### GSM 850 connected: (test Mobile with T5001448AGAA of Tenpao power adaptor.)

#### Horizontal:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

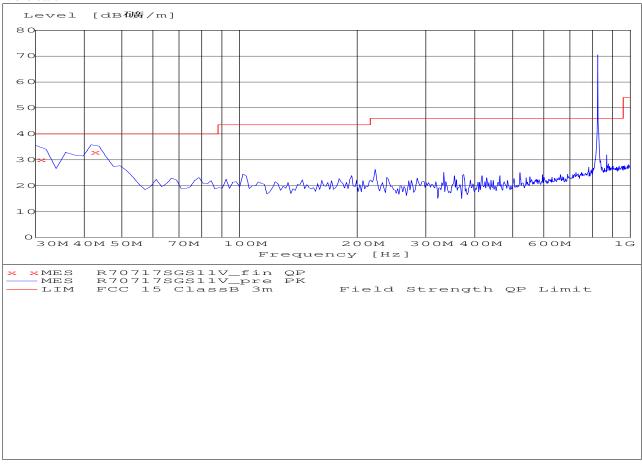
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#### Vertical:

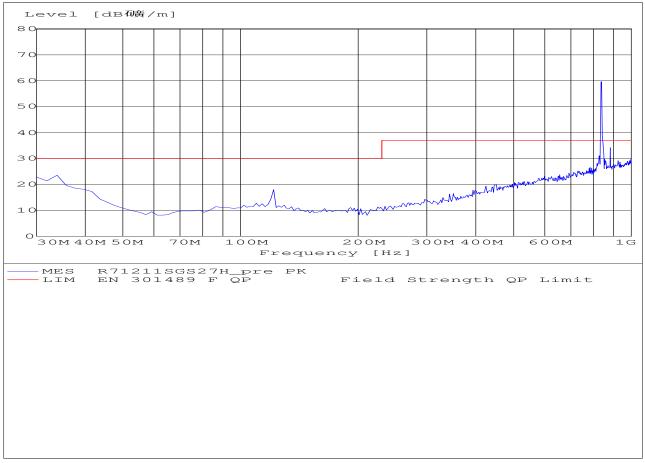


Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBµV/m	cm	deg		dBµV/m	dB
30.861720	29.86	100.0	250.00	VERTICAL	40.00	10.14
42.394790	32.89	100.0	60.00	VERTICAL	40.00	7.11

1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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# GSM 850 connected: (test Mobile with 3DS11022AGAA adaptor.) Horizontal



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#### Vertical: [dB秱簧/m] Level 80 70 60 50 40 зо Jut × 20 M 1 C 0 30M 40M 50M 300M 400M 70M 100M 200M 600M 1GFrequency [Hz] R71211SGS27V\_fin R71211SGS27V\_pre EN 301489 F QP × MES $\sim$ QP PK Field Strength QP Limit - LIM

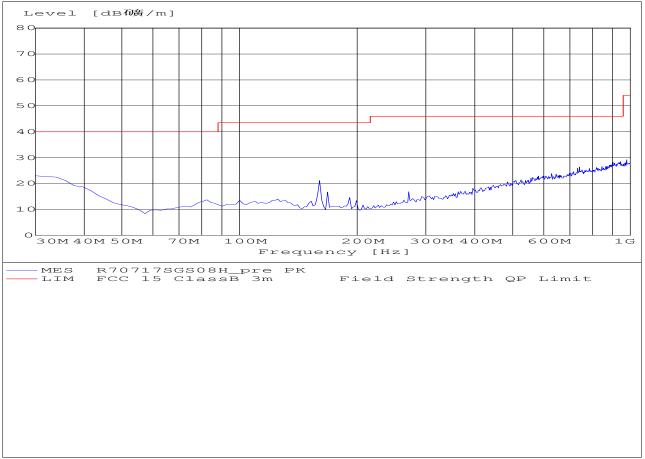
Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBµV/m	cm	deg		BμV/m	dB
	•		Ũ			
33.106212	25.79	100.0	180.00	VERTICAL	30.00	4.21

1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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#### PCS 1900 connected: (test Mobile with T5000436AGAA of Tenpao power adaptor.)

#### Horizontal:



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#### Vertical: Level [dB碩廣/m] 8 C 70 6 C 50 4 C зо 20 Λ 1 C 0 30M 40M 50M 300M 400M 70M 100M 200M 600M 1GFrequency [Hz] R70717SGS08V\_fin R70717SGS08V\_pre FCC 15 ClassB 3m × × MES QP PK Field Strength QP Limit - LIM Frequency Level Height Azimuth Polarisation Limit Margin

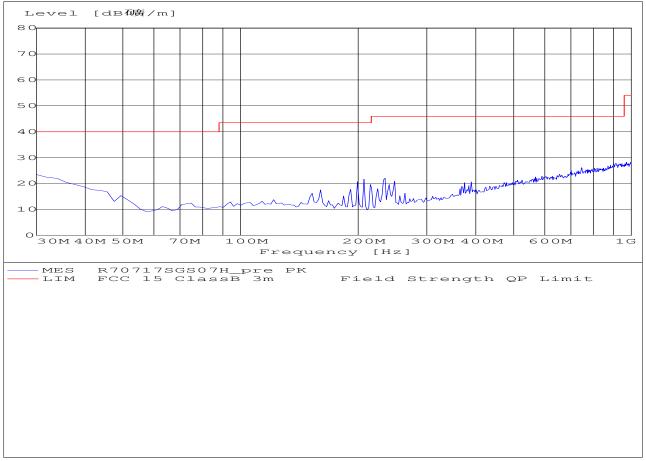
Frequency Level Height Azimuth Polarisation Limit Margin MHz dB $\mu$ V/m cm deg dB $\mu$ V/m dB 41.292590 25.87 100.0 300.00 VERTICAL 40.00 14.13

1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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#### PCS 1900 connected: (test Mobile with T5001448AGAA of Tenpao power adaptor.)

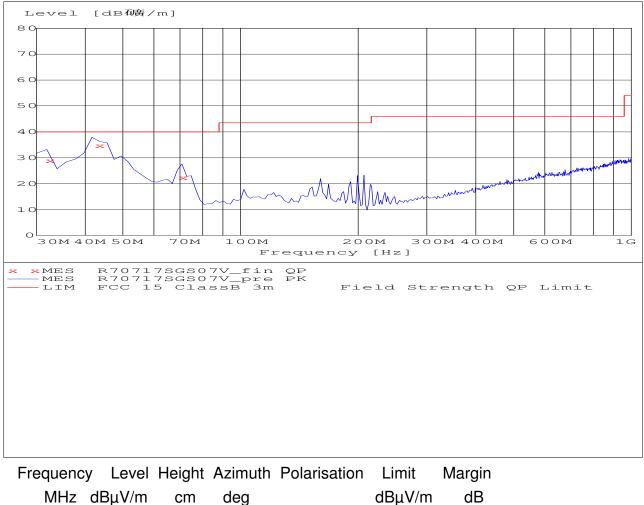
#### Horizontal:



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#### Vertical:



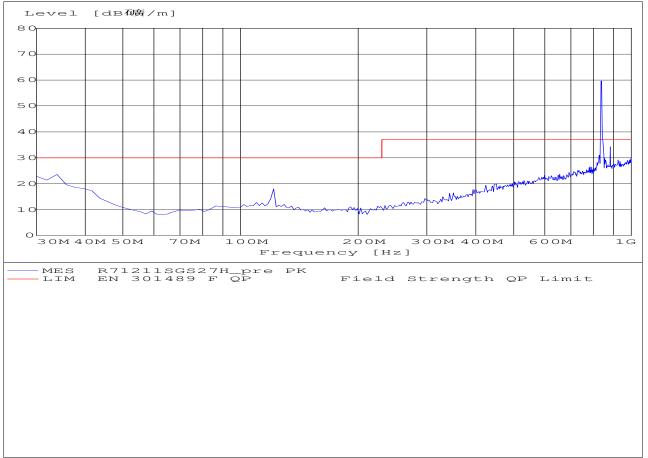
32.344690	28.78	100.0	265.00	VERTICAL	40.00	11.22
43.266530	34.59	100.0	230.00	VERTICAL	40.00	5.41
70.751500	22.31	100.0	180.00	VERTICAL	40.00	17.69

1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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#### PCS 1900 connected: (test Mobile with 3DS11022AGAA adaptor )

#### Horizontal



1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

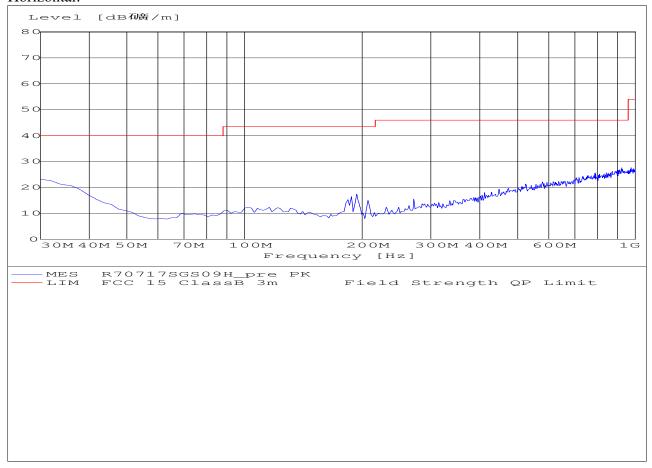
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#### Vertical: [dB秱簧/m] Level 8 C 7 C 60 50 40 зо 6 J.M 20 mm ~~~^ $\Lambda$ 1 C 0 30M 40M 50M 300M 400M 70M 100M 200M 600M 1GFrequency [Hz] R71211SGS26V\_fin R71211SGS26V\_pre EN 301489 F QP × MES $\sim$ QP PK Field Strength QP Limit - LIM

1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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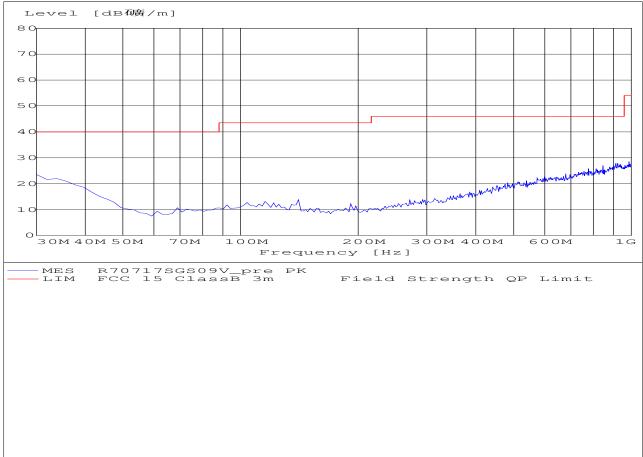
#### PCS 1900 connected: (test Mobile with earphone.) Horizontal:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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#### Vertical:

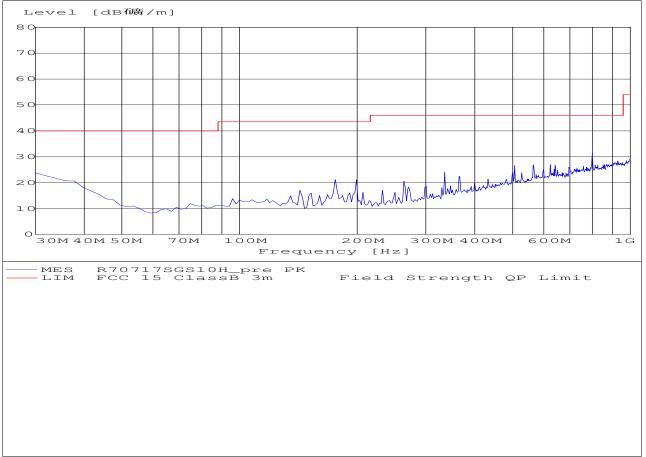


1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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#### PCS 1900 connected: (test Mobile with USB Port with PC.)

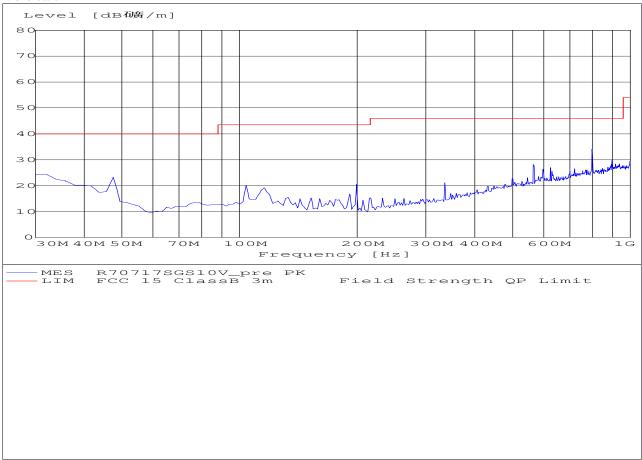
#### Horizontal:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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#### 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:	December 12, 2007 to December 27, 2007
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°CHumidity:58% RHAtmospheric Pressure:1012 mbarEUT Operation:Test EUT is the in the allocated channel mode Charging, GSM850, PCS<br/>1900 with headset.

#### 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.

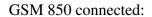
**Note**: The test was performed for all the functions, and we just choose the worst case in this report.

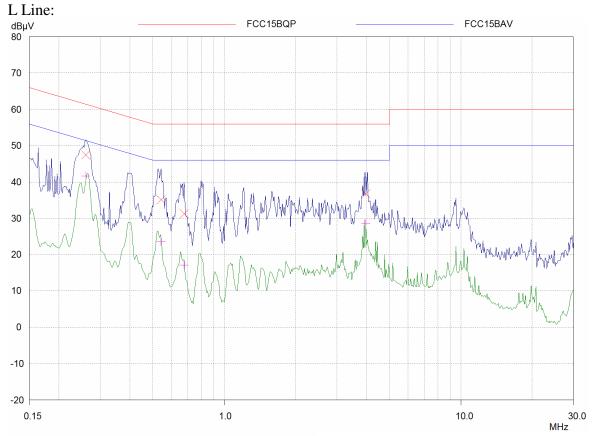
1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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Power Supply01:

AC to DC charger (Model NO: T5000436AGAA Input: AC 100V-240V~, 50/60Hz 0.15A Output:DC 5.0V, 0.4A) Manufactures: TenPao

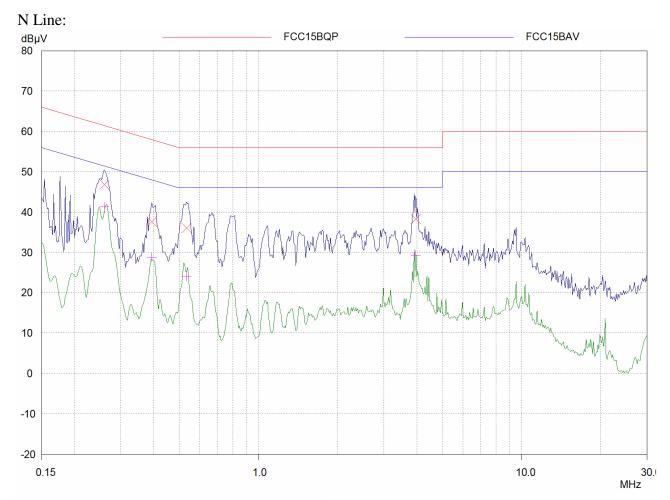




Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.25993	47.46	61.43	13.97
0.54104	35.17	56.00	20.83
0.67628	31.26	56.00	24.74
3.96615	36.79	56.00	19.21
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.25993	41.61	51.43	9.82
0.54104	23.54	46.00	22.46
0.67628	16.99	46.00	29.01
3.96615	28.52	46.00	17.48

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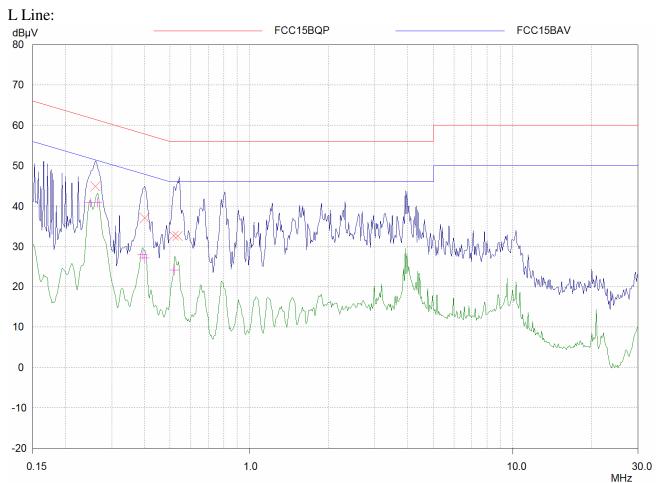


Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.25993	46.84	61.43	14.59
0.39338	37.61	57.99	20.38
0.53249	36.07	56.00	19.93
3.96615	38.27	56.00	17.73
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.25993	41.27	51.43	10.16
0.39338	28.73	47.99	19.26
0.53249	24.03	46.00	21.97
3.96615	29.32	46.00	16.68

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#### PCS 1900 connected:



Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.25993	44.83	61.43	16.60
0.3997	37.00	57.86	20.86
0.51578	32.65	56.00	23.35
0.53249	32.55	56.00	23.45
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.2478	40.80	51.83	11.03
0.26411	40.84	51.30	10.46
0.39338	27.80	47.99	20.19
0.3997	26.99	47.86	20.87
0.51991	24.03	46.00	21.97

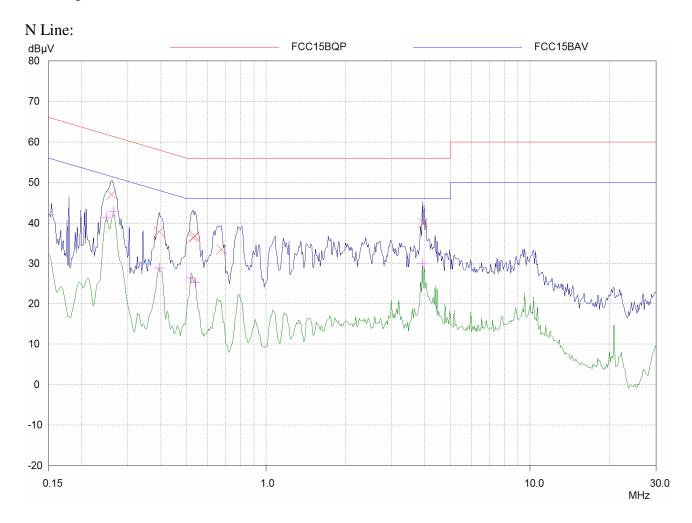
1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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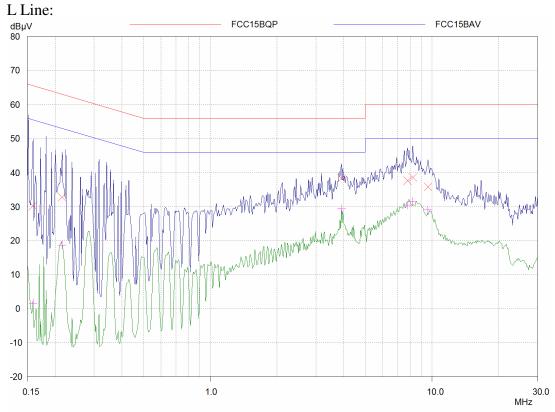
1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

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Power Supply02:

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AC to DC charger (Model NO: T5001448AGAA Input: AC 100V-240V~, 50/60Hz 0.1A Output:DC 4.5V, 0.3A) Manufactures: TenPao

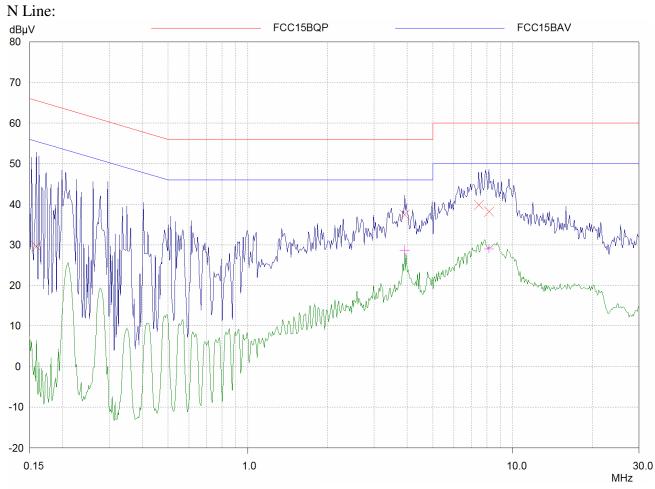


GSM 850 connected:

Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.1586	30.23	65.54	35.31
0.21469	32.79	63.02	30.23
3.90345	38.37	56.00	17.63
7.74559	37.67	60.00	22.33
8.18989	38.57	60.00	21.43
9.60481	35.85	60.00	24.15
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.1586	1.55	55.54	53.99
0.21469	18.64	53.02	34.38
3.90345	29.39	46.00	34.30 16.61
7.74559	30.45	50.00	19.55
8.18989	31.52	50.00	18.48
9.60481	29.04	50.00	20.96

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Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.1586	29.65	65.54	35.89
3.90345	37.45	56.00	18.55
7.44306	39.87	60.00	20.13
8.12489	38.19	60.00	21.81
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
3.90345	28.78	46.00	17.22
8.12489	29.02	50.00	20.98

1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

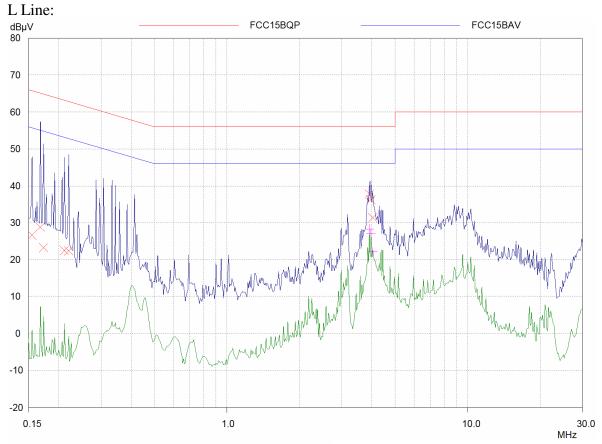
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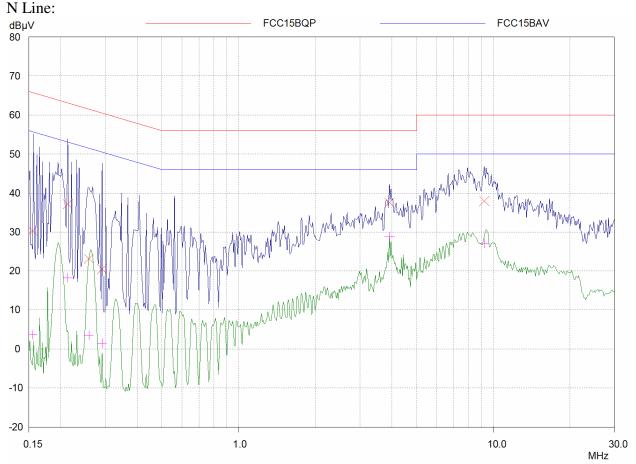
#### PCS 1900 connected:



Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.15485	26.55	65.74	39.19
0.1677	28.77	65.07	36.30
0.17313	23.14	64.81	41.67
0.21129	22.38	63.15	40.77
0.21988	22.29	62.82	40.53
3.90345	37.77	56.00	18.23
3.96615	36.23	56.00	19.77
4.02986	31.41	56.00	24.59
Frequency	AV Level	AV Limit	AV Delta
MHz	dBμV	dBµV	dB
3.90345	28.36	46.00	17.64
3.96615	26.98	46.00	19.02
4.02986	22.05	46.00	23.95

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Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.15485	30.33	65.74	35.41
0.21298	37.19	63.09	25.90
0.25787	23.08	61.50	38.42
0.29061	20.41	60.51	40.10
3.90345	37.55	56.00	18.45
9.22967	37.92	60.00	22.08
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.15485	3.54	55.74	52.20
0.21298	18.12	53.09	34.97
0.25787	3.36	51.50	48.14
0.29061	1.42	50.51	49.09
3.90345	28.78	46.00	17.22
9.22967	27.03	50.00	22.97

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Power Supply03:

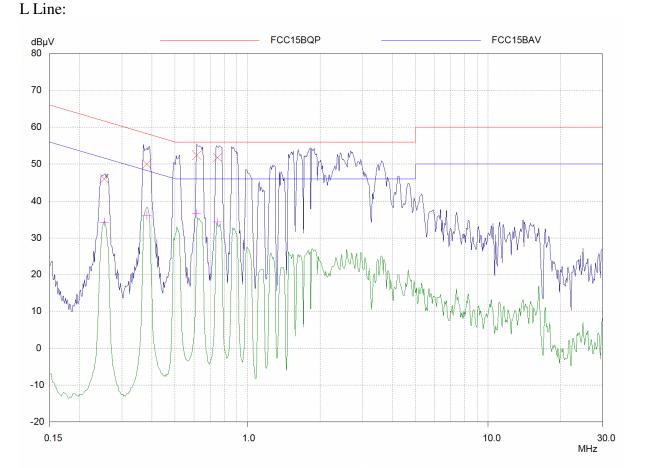
AC to DC charger (Model NO: 3DS11022AGAA Input: AC 100V-240V~, 50/60Hz 0.15A Output:DC 5V, 0.5A)

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GSM 850 connected:



Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.25379	46.00	61.63	15.63
0.38104	49.98	58.26	8.28
0.61461	52.38	56.00	3.62
0.75009	51.76	56.00	4.24
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.25379	34.27	51.63	17.36
0.38104	36.00	48.26	12.26
0.61461	36.55	46.00	9.45
0.75009	34.34	46.00	11.66

1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

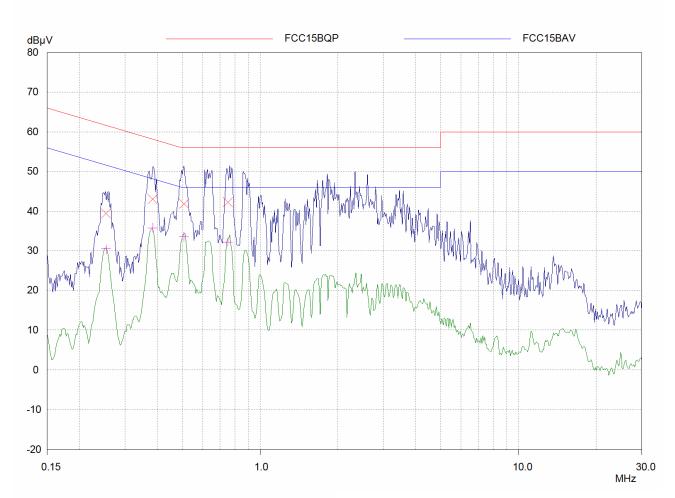
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#### N Line:



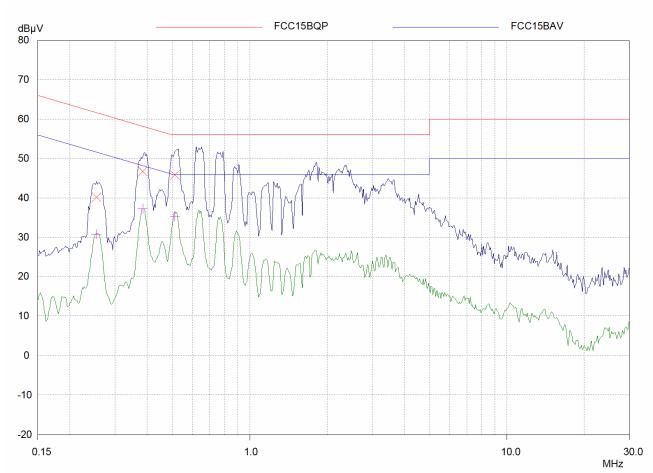
Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.25379	39.48	61.63	22.15
0.38409	43.08	58.19	15.11
0.50763	41.87	56.00	14.13
0.75009	42.25	56.00	13.75
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.25379	30.36	51.63	21.27
0.38409	35.84	48.19	12.35
0.50763	33.59	46.00	12.41
0.75009	32.17	46.00	13.83

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#### PCS 1900 connected:

L Line:

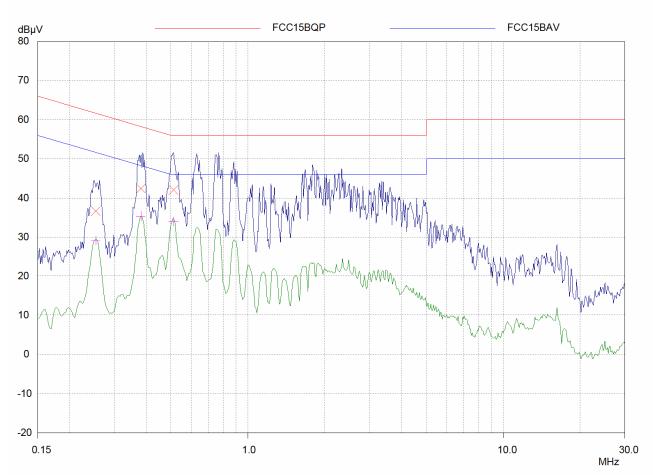


Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.25379	40.16	61.63	21.47
0.38409	46.70	58.19	11.49
0.51169	45.79	56.00	10.21
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.25379	30.73	51.63	20.90
0.38409	37.25	48.19	10.94
0.51169	35.30	46.00	10.70

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#### N Line:



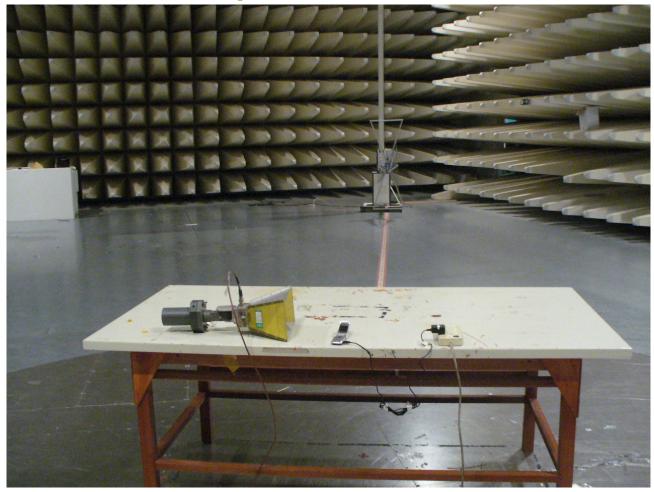
Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµV	dB
0.25379	36.60	61.63	25.03
0.38104	42.40	58.26	15.86
0.51169	42.01	56.00	13.99
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.25379	29.01	51.63	22.62
0.38104	35.34	48.26	12.92
0.51169	33.90	46.00	12.10

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# 7 Photographs

#### 7.1 Radiated Emission Test Setup



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# 7.2 Conducted Emission Test Setup



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### 7.3 EUT Constructional Details





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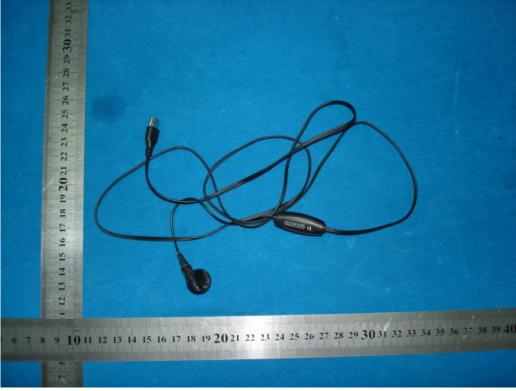


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