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Report No.: SHEMO09080092102

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EMC TEST REPORT

Application No.: SHEMO09080092102
Applicant: Sagem Wireless
Address: 2, rue du Petit Albi, BP 28250-95801 CERGY PONTOISE Cedex
FCC ID: M9HPHIL

Equipment Under Test (EUT):

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

Product Name: GSM Mobile Phone

Brand Name: SAGEM

Model Name: PHIL

Type Name: PHIL

Standards: FCC PART 15:2008 Section B

Date of Receipt: Aug 10, 2009

Date of Test: Aug 12, 2009

Date of Issue: Aug 12, 2009

| | |
|----------------------|--------------|
| Test Result : | PASS* |
|----------------------|--------------|

* In the configuration tested, the EUT complied with the standards specified above.

Tino Pan
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SGS-CSTC Co., Ltd.

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2 Test Summary

| Test | Test Requirement | Test Method | Class / Severity | Result |
|------------------------------------|--------------------|------------------|------------------|--------|
| Radiated Emission 30MHz-1000MHz | CFR 47 Part 15.109 | ANSI C63.4: 2003 | Class B | PASS |
| Conducted Emission 150KHz-30MHz | CFR 47 Part 15.107 | ANSI C63.4: 2003 | Class B | PASS |



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4 General Information

4.1 Client Information

Applicant: Sagem Wireless
Address of Applicant: 2, rue du Petit Albi, BP 28250-95801 CERGY PONTOISE Cedex

4.2 General Description of E.U.T.

Product Name: GSM Mobile Phone
Brand Name: SAGEM
Model Name: PHIL
Type Name: PHIL
FCC ID: M9HPHIL
Support Frequency Band: GSM 900/1800/1900
Testing frequency Band: GSM 1900
IMEI: 355362039950279
Hardware Version: V0x
Software Version: E N,ME

4.3 Details of E.U.T.

Power Supply: Adapter Information:
Model: DCH3-050US
Input: AC 110-230V, 120mA, 50/60Hz
Output : DC 5V, 500mA
Headset: Model: EMB-SGC714STKB, Reference: 179132056
USB data cable: Model: CA9300664
Reference: 189190175

4.4 Standards Applicable for Testing

The standards used were CFR 47 Part 15B, ANSI C63.4: 2003

Table 1 : Tests Carried Out

| Standard | | Status |
|-----------------------|--------------------|--------|
| FCC Part 15 Subpart B | Radiated Emission | √ |
| FCC Part 15 Subpart B | Conducted Emission | √ |

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



4.5 Test Location

Tests were performed at SGS E&E EMC lab

SGS-CSTC EMC Laboratory, No.588 West Jindu Road, Songjiang District, Shanghai, China
Tel: +86 21 6191 5666 Fax: +86 21 6191 5655

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC – Registration No.: 402683

SGS-CSTC Standards Technical Services Co., Ltd., 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 402683, Feb 23, 2009. SGS-CSTC is an authorized test laboratory for the DoC process.



5 Equipment Used during Test

Conducted Emission

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due date |
|------|--------------------------------------|-----------------|-----------|------------|-----------|---------------|
| 1 | EMI test receiver | Rohde & Schwarz | ESCS30 | 100086 | 2009-6-4 | 2010-6-3 |
| 2 | Line impedance stabilization network | SCHWARZBECK | NSLK8127 | 8127-490 | 2009-5-8 | 2010-5-7 |

Radiated Emission

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal.Due date |
|------|-------------------|-----------------|-------------|------------|-----------|--------------|
| 1 | EMI test receiver | Rohde & Schwarz | ESU40 | 100109 | 2009-6-4 | 2010-6-3 |
| 2 | ANTENNA | SCHWARZBECK | VULB9168 | 9168-313 | 2009-6-4 | 2010-6-3 |
| 3 | ANTENNA | SCHWARZBECK | BBHA9120D | 9120D-679 | 2009-6-4 | 2010-6-3 |
| 4 | ANTENNA | SCHWARZBECK | BBHA9170 | 9170-373 | 2009-6-4 | 2010-6-3 |
| 5 | TURNTABLE | INNCO | DS 2000S-1T | / | / | / |

6 Emission Test Results

6.1 Radiated Emissions

Test Requirement: CFR 47 Part 15.109
 Test Method: ANSI C63.4:2003
 Test Date: Aug 12, 2009
 Frequency Range: 30MHz to 1GHz
 Measurement Distance: 3m
 Detector: Peak for pre-scan (120kHz resolution bandwidth)
 Result: **PASS**

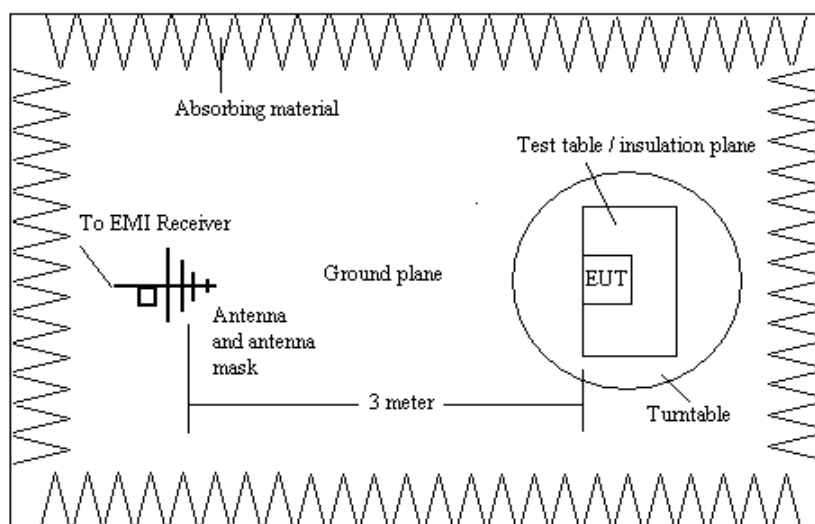
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 55 % RH Atmospheric Pressure: 1014 mbar

EUT Operation: Test in EUT allocated channel mode GSM1900 with charger, headset or USB date cable mode.

6.1.2 Test setup:

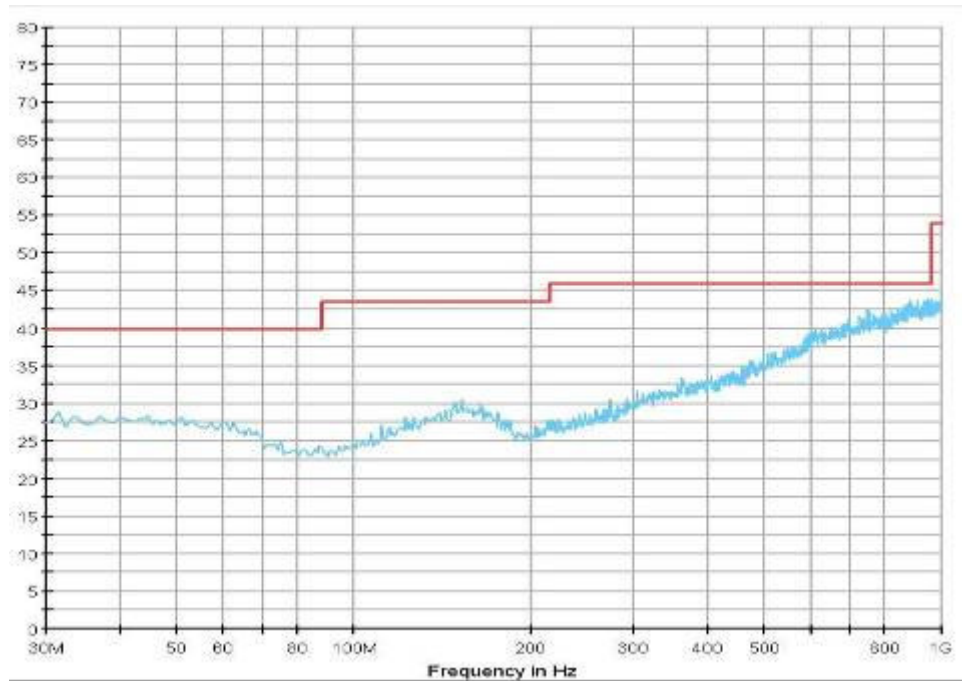




GSM 1900 with charge mode.

Horizontal:

dBuV/m

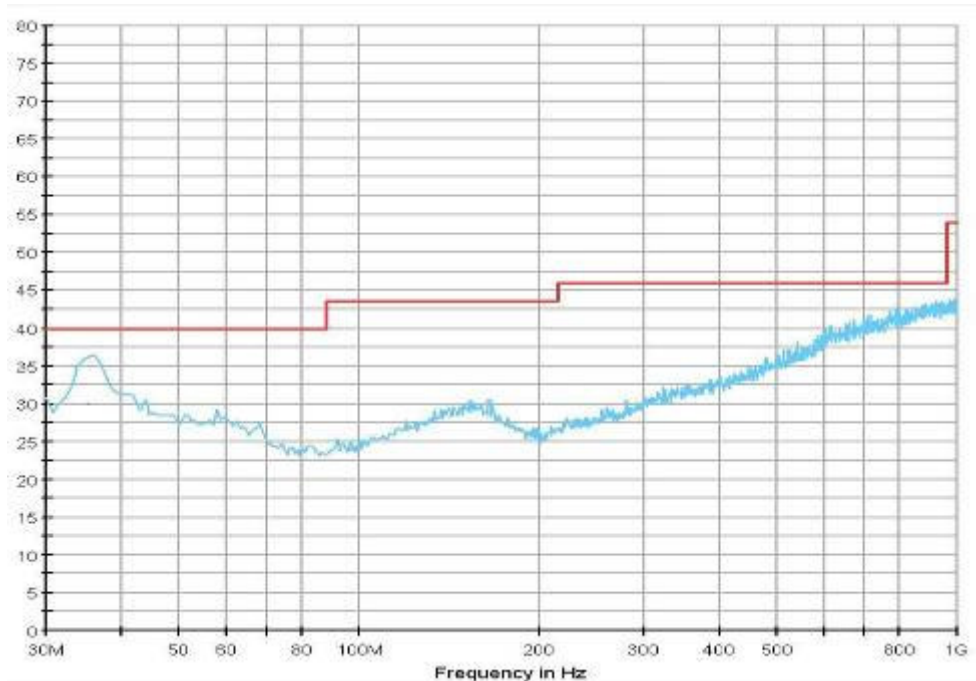


| Frequency (MHz) | Actual Level QP (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|--------------------|--------------------------------|-------------------|----------------|
| 30.00 | 24.2 | 40.0 | 15.8 |
| 100.00 | * | 43.5 | * |
| 160.00 | * | 43.5 | * |
| 200.00 | * | 43.5 | * |
| 800.00 | 34.2 | 46.0 | 11.8 |
| 1000.00 | * | 54.0 | * |

“*” means the emission level is 6dB lower than the relevant limit.



Vertical:
dBuV/m



| Frequency (MHz) | Actual Level QP (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|--------------------|--------------------------------|-------------------|----------------|
| 35.28 | 31.5 | 40.0 | 8.5 |
| 36.33 | 32.0 | 40.0 | 8.0 |
| 100.00 | * | 43.5 | * |
| 160.00 | * | 43.5 | * |
| 200.00 | * | 43.5 | * |
| 800.00 | 35.1 | 46.0 | 10.9 |
| 1000.00 | * | 54.0 | * |

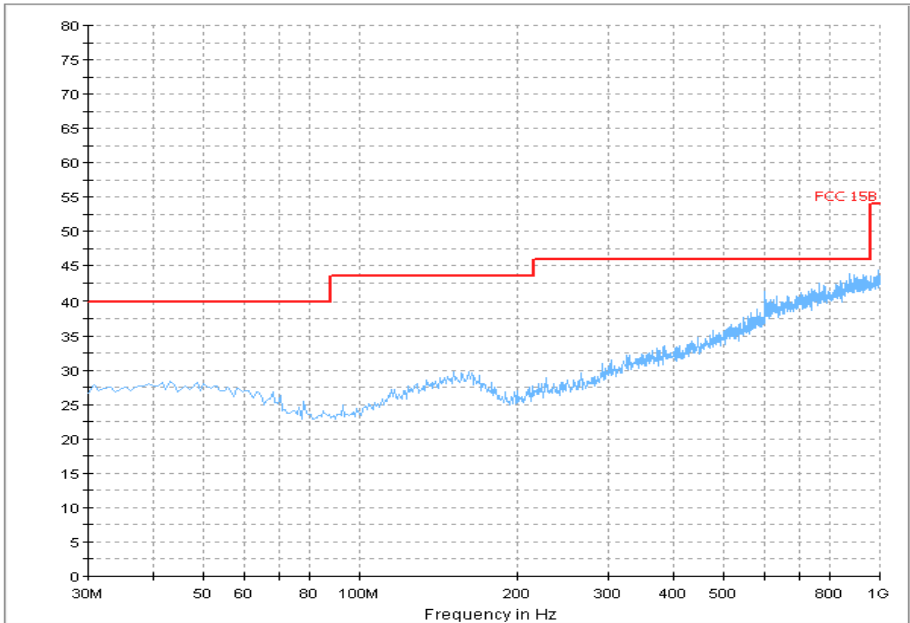
“*” means the emission level is 6dB lower than the relevant limit.



GSM 1900 with earphone mode.

Horizontal:

dBuV/m

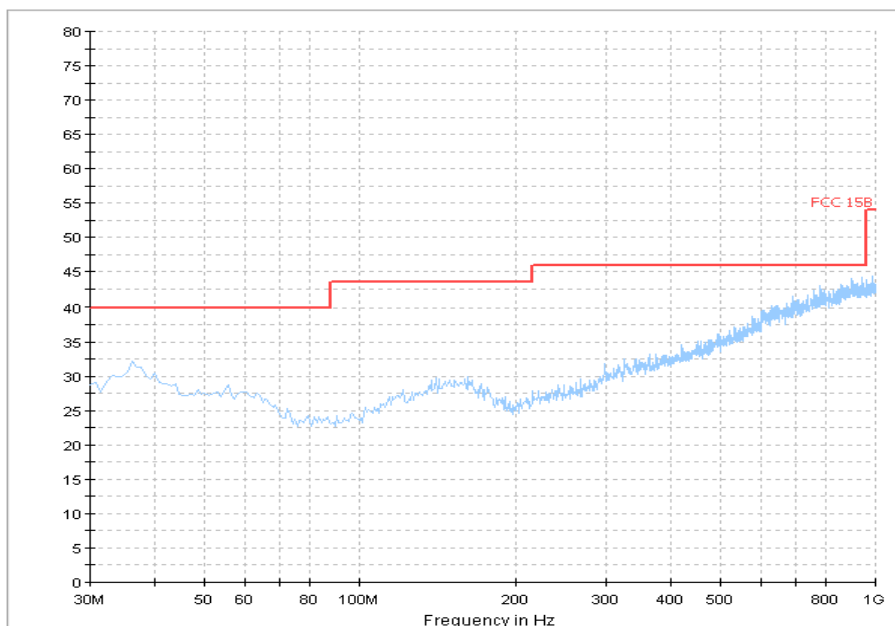


| Frequency | Actual Level QP | Limit | Margin |
|-----------|--------------------|----------|--------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) |
| 30.00 | * | 40.0 | * |
| 100.00 | * | 43.5 | * |
| 160.00 | * | 43.5 | * |
| 200.00 | * | 43.5 | * |
| 800.00 | * | 46.0 | * |
| 1000.00 | * | 54.0 | * |

“*” means the emission level is 6dB lower than the relevant limit.



Vertical:
dBuV/m



| Frequency (MHz) | Actual Level QP (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|--------------------|--------------------------------|-------------------|----------------|
| 30.00 | * | 40.0 | * |
| 36.00 | * | 40.0 | * |
| 100.00 | * | 40.0 | * |
| 160.00 | * | 43.5 | * |
| 200.00 | * | 43.5 | * |
| 800.00 | * | 46.0 | * |
| 1000.00 | * | 54.0 | * |

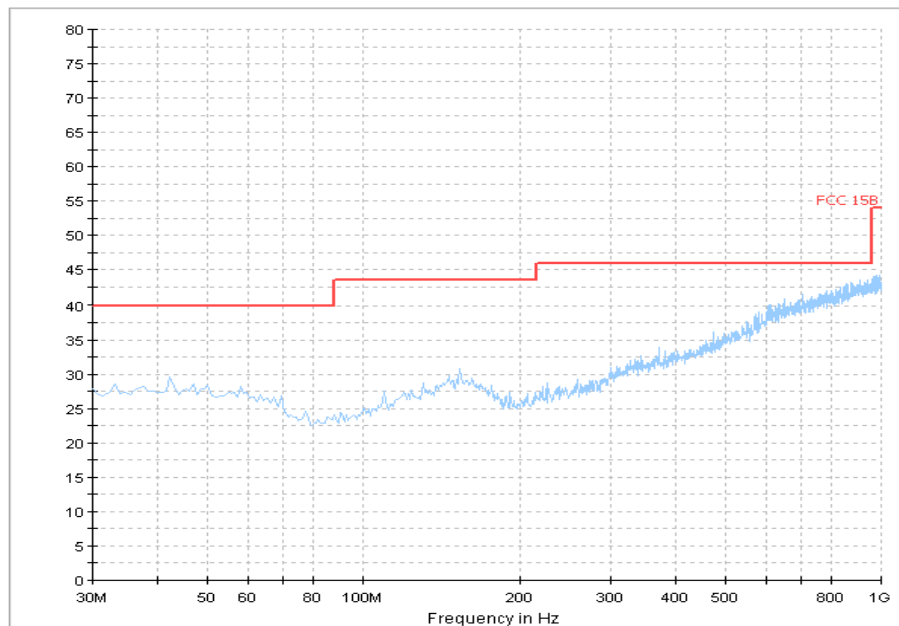
“*” means the emission level is 6dB lower than the relevant limit.



GSM 1900 with USB data cable mode.

Horizontal:

dBuV/m

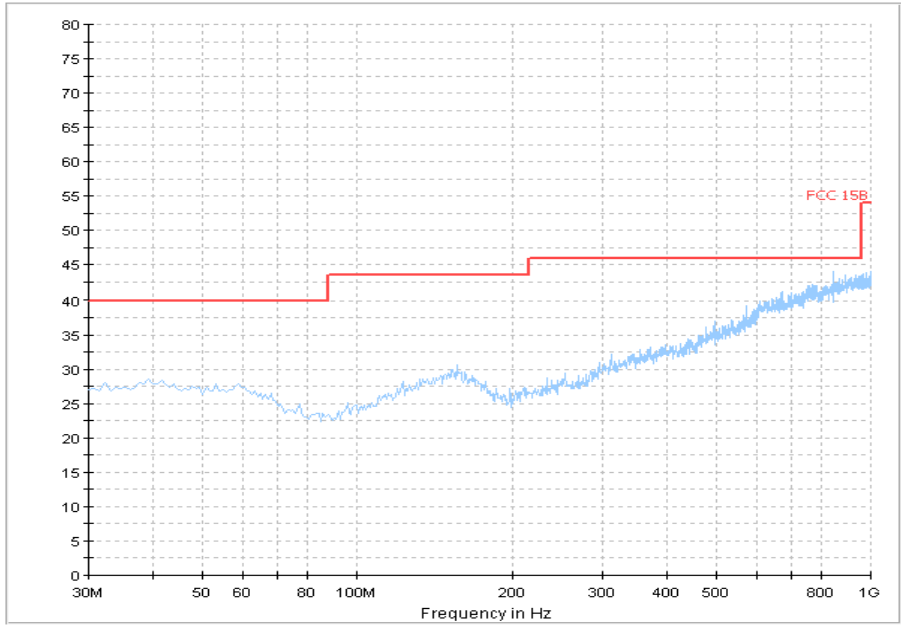


| Frequency | Actual Level QP | Limit | Margin |
|-----------|--------------------|----------|--------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) |
| 30.00 | * | 40.0 | * |
| 100.00 | * | 43.5 | * |
| 160.00 | * | 43.5 | * |
| 200.00 | * | 43.5 | * |
| 800.00 | * | 46.0 | * |
| 1000.00 | * | 54.0 | * |

“*” means the emission level is 6dB lower than the relevant limit.



Vertical:
dBuV/m



| Frequency | Actual Level QP | Limit | Margin |
|-----------|--------------------|----------|--------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) |
| 35.00 | * | 40.0 | * |
| 60.00 | * | 40.0 | * |
| 160.00 | * | 43.5 | * |
| 200.00 | * | 43.5 | * |
| 800.00 | * | 46.0 | * |
| 1000.00 | * | 54.0 | * |

“*” means the emission level is 6dB lower than the relevant limit.



6.2 Conducted Emissions

Test Requirement: CFR 47 part 15.107

Test Method: ANSI C63.4:2003

Test Date: Aug 12, 2009

Frequency Range: 150kHz to 30MHz

Limit:

| Frequency of Emission (MHz) | Conducted Limit (dB μ V) | |
|-----------------------------|------------------------------|-----------------------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 [*] | 56 to 46 [*] |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

^{*}Decreases with the logarithm of the frequency.

Result: **PASS**

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0°C Humidity: 57% RH Atmospheric Pressure: 1012 mbar

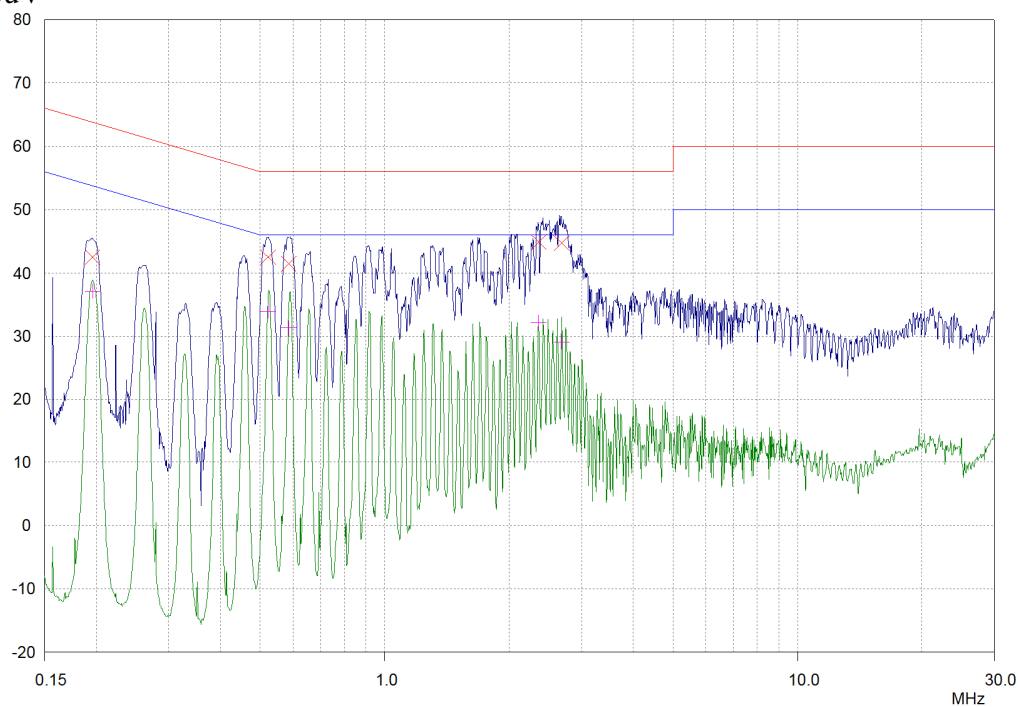
EUT Operation: EUT allocated channel mode GSM1900 with charger.

6.2.2 Test Result and Measurement Data



L Line:

dBuV



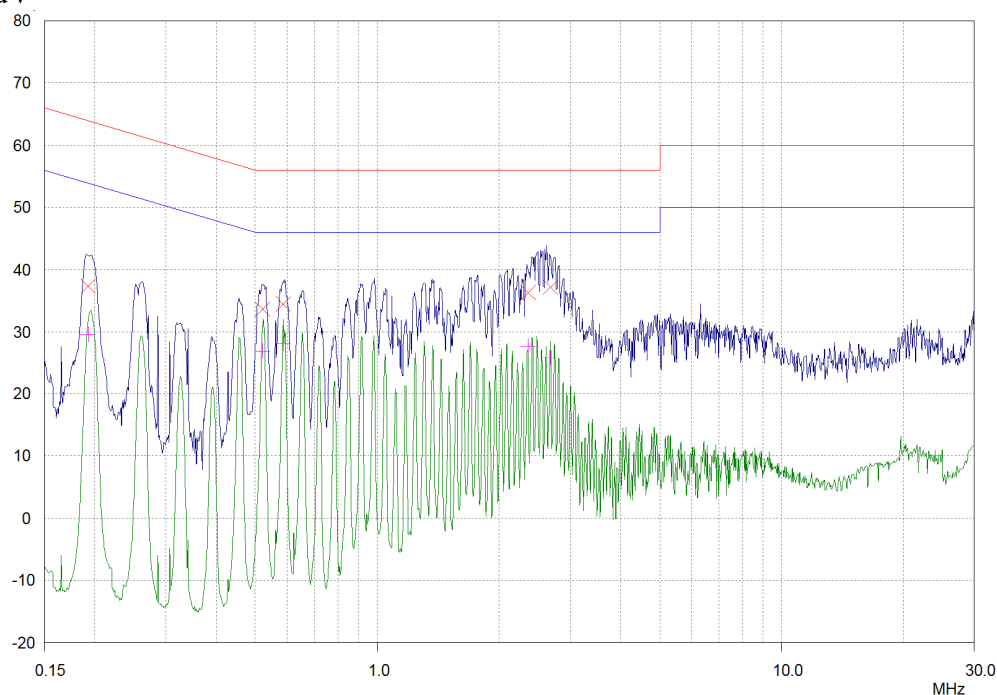
| Frequency MHz | QP Level dBμV | QP Limit dBμV | QP Delta dB |
|------------------|------------------|------------------|----------------|
| 0.19599 | 42.48 | 63.78 | 21.30 |
| 0.5212 | 42.48 | 56.00 | 13.52 |
| 0.58517 | 41.46 | 56.00 | 14.54 |
| 2.35696 | 44.83 | 56.00 | 11.17 |
| 2.67813 | 44.71 | 56.00 | 11.29 |

| Frequency MHz | AV Level dBμV | AV Limit dBμV | AV Delta dB |
|------------------|------------------|------------------|----------------|
| 0.19599 | 37.13 | 53.78 | 16.65 |
| 0.5212 | 34.04 | 46.00 | 11.96 |
| 0.58517 | 31.33 | 46.00 | 14.67 |
| 2.35696 | 32.22 | 46.00 | 13.78 |
| 2.67813 | 29.17 | 46.00 | 16.83 |



N Line:

dBuV



| Frequency MHz | QP Level dBuV | QP Limit dBuV | QP Delta dB |
|------------------|------------------|------------------|----------------|
| 0.19289 | 37.34 | 63.91 | 26.57 |
| 0.51912 | 33.62 | 56.00 | 22.38 |
| 0.58517 | 34.47 | 56.00 | 21.53 |
| 2.35696 | 36.29 | 56.00 | 19.71 |
| 2.67813 | 37.15 | 56.00 | 18.85 |

| Frequency MHz | AV Level dBuV | AV Limit dBuV | AV Delta dB |
|------------------|------------------|------------------|----------------|
| 0.19289 | 29.57 | 53.91 | 24.34 |
| 0.51912 | 26.95 | 46.00 | 19.05 |
| 0.58517 | 28.15 | 46.00 | 17.85 |
| 2.35696 | 27.70 | 46.00 | 18.30 |
| 2.67813 | 25.77 | 46.00 | 20.23 |

7 EQUIPMENT UNDER TEST PICTURES

7.1.1 Radiated Emission Test Setup

Connected with charger:



Connected with earphone:



Connected with USB cable



7.1.2 Conducted Emission Test Setup





APPENDIX PHOTOGRAPHS OF EUT

All of EUT



Top View of EUT



Bottom View of EUT-1



Side View of EUT-2





Side View of EUT-3



Side View of EUT-4





Side View of EUT-5



Adapter



Battery



Open View of EUT-1



Open View of EUT-2



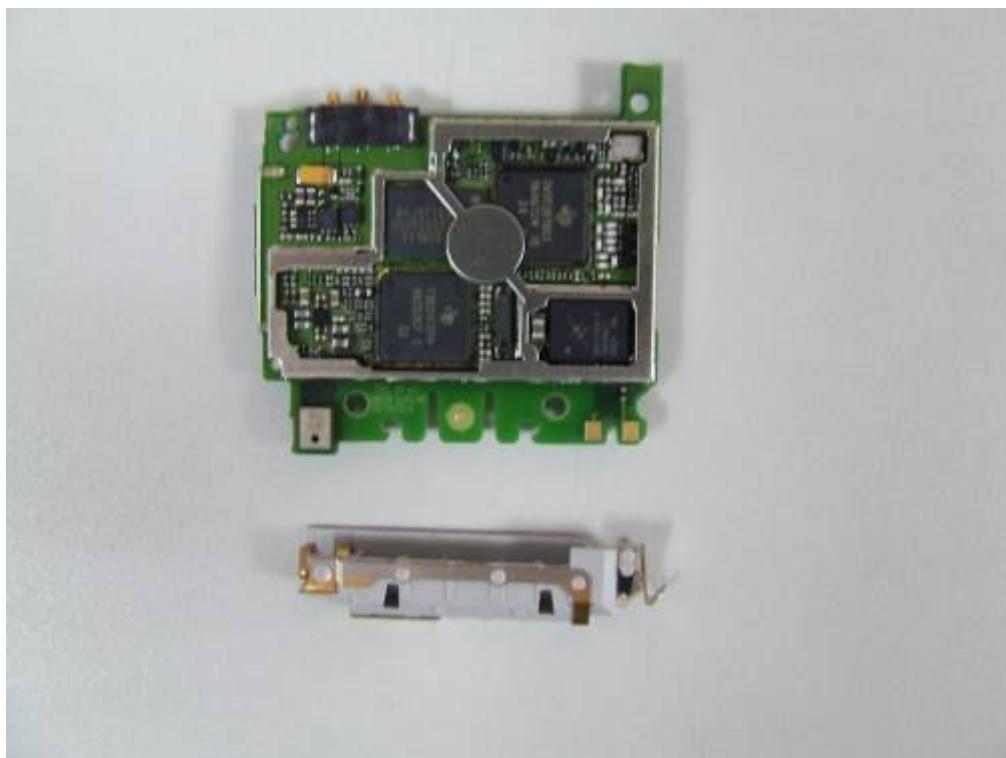
Open View of EUT-3



Internal of EUT-1



Internal of EUT-2



Internal of EUT-3



Internal of EUT-4



~End of Report~