

# GRUPO SEFTON TECNOLOGY

## GSM Mobile Phone

Model: S-401

April 20, 2012

Report No.: 12070047-FCC-E1

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

		
Alan Lv Compliance Engineer	Alex Liu Technical Manager	

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Test result presented in this test report is applicable to the representative sample only.

EMC Test Report

SIEMIC, INC.  
Accessing global market

To: FCC Part 15 Subpart B Class B: 2012

**SIEMIC, INC.**

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Title: EMC Test Report for GSM Mobile Phone  
Model: S-401  
To: FCC Part 15 Subpart B Class B: 2012

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## Laboratory Introduction

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In addition to testing and certification, SIEMIC provides initial design reviews and compliance management through out a project. Our extensive experience with China, Asia Pacific, North America, European, and international compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

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Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC , RF/Wireless , Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless , Telecom
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless , Telecom
Australia	NATA, NIST	EMC, RF, Telecom , Safety
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Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
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Singapore	iDA, NIST	EMC , RF , Telecom
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Japan	MIC, (RCB 208)	RF , Telecom
Hong Kong	OFTA (US002)	RF , Telecom



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## **1 EXECUTIVE SUMMARY & EUT INFORMATION**

**The purpose of this test programme was to demonstrate compliance of the GRUPO SEFTON TECNOLOGY, GSM Mobile Phone and model: S-401 against the current Stipulated Standards. The GSM Mobile Phone has demonstrated compliance with the FCC Part 15 Subpart B Class B: 2012.**

### **EUT Information**

**EUT Description** : **GSM Mobile Phone**

**Main Model** : **S-401**

**Serial Model** : **N/A**

**Input Power** : **Li-ion Rechargeable Battery  
Model: Love  
Restrictive Voltage: 4.2V  
Charging Voltage: 3.7V  
1800mAh**

**Classification Per Stipulated Test Standard** : **Class B Emission Product Per FCC Part 15 Subpart B Class B: 2012**



## 2 TECHNICAL DETAILS

<b>Purpose</b>	Compliance testing of GSM Mobile Phone with stipulated standard
<b>Applicant / Client</b>	<b>GRUPO SEFTON TECNOLOGY</b> <b>CALLE 13 #15-61, BOGOTA, COLOMBIA</b>
<b>Manufacturer</b>	<b>SHEN ZHEN ZHIKE COMMUNICATION CO., LTD</b> <b>1805, Tower A, Phase I, Tianan High-Tech Plaza, Futian District,</b> <b>Shenzhen China</b>
<b>Laboratory performing the tests</b>	SIEMIC Nanjing (China) Laboratories NO.2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel: +86(25)86730128/86730129 Fax: +86(25)86730127 Email: info@siemic.com
<b>Test report reference number</b>	<b>12070047-FCC-E1</b>
<b>Date EUT received</b>	<b>April 18, 2012</b>
<b>Standard applied</b>	<b>FCC Part 15 Subpart B Class B: 2012</b>
<b>Dates of test</b>	<b>April 19, 2012</b>
<b>No of Units</b>	<b>#1</b>
<b>Equipment Category</b>	<b>Class B Emission Product</b>
<b>Trade Name</b>	
<b>RF Operating Frequency (ies)</b>	<b>GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz</b> <b>PCS1900 TX : 1850.2 ~ 1909.8 MHz RX : 1930.2 ~ 1989.8 MHz</b> <b>Bluetooth: 2402-2480 MHz</b>
<b>Number of Channels</b>	<b>300 CH (PCS1900) and 125 CH (GSM850)</b> <b>Bluetooth: 79 CH</b>
<b>Modulation</b>	<b>GSM / GPRS: GMSK</b> <b>Bluetooth: GFSK</b>
<b>FCC ID</b>	<b>FPOSEFTONS401</b>



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### **3 MODIFICATION**

**NONE**

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## 4 TEST SUMMARY

The product was tested in accordance with the following specifications.  
All testing has been performed according to below product classification:

### Class B Emission Product

#### Test Results Summary

Emissions			
Test Standard	Description	Product Class	Pass / Fail
FCC Part 15 Subpart B Class B: 2012	AC Line Conducted Emissions	See Above	Pass
FCC Part 15 Subpart B Class B: 2012	Radiated Emissions	See Above	Pass

All measurement uncertainty is not taken into consideration for all presented test result.



## **5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS**

### **5.1 AC Line Conducted Emissions Test Result**

Note:

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is  $\pm 3.86$ dB.
4. Environmental Conditions      Temperature      19°C  
    Relative Humidity      51%  
    Atmospheric Pressure      1009mbar
5. Test date : April 19, 2012  
Tested By : Alan Lv

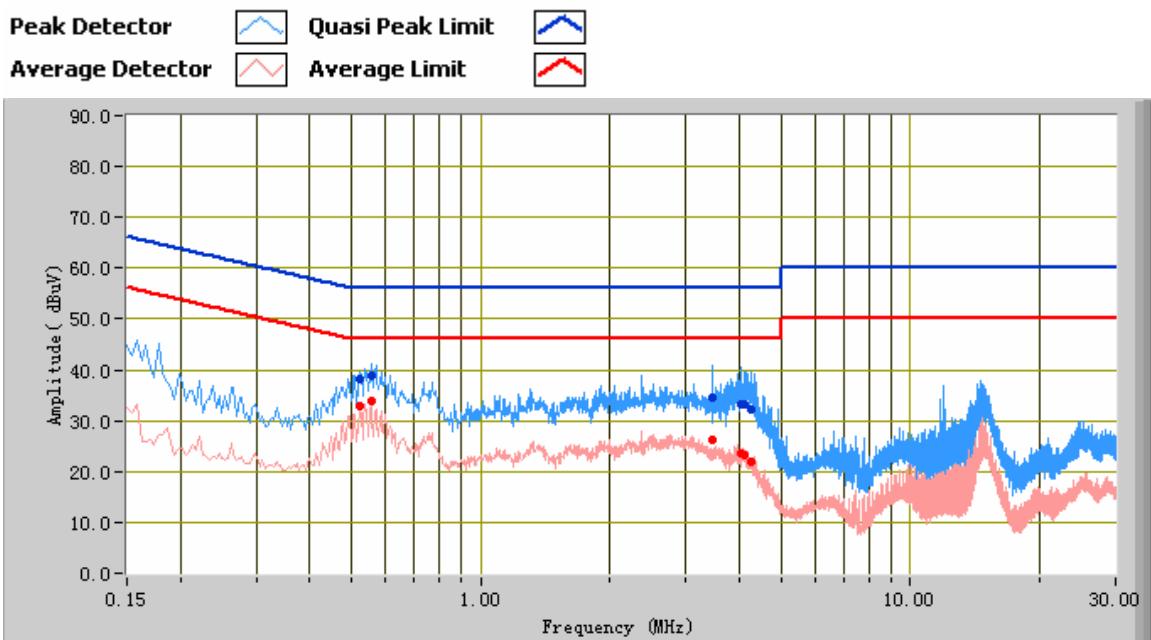
**Test Result: Pass**

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**Test Mode:****Charging & Downloading****Test Data****Phase Line Plot at 120Vac, 60Hz**

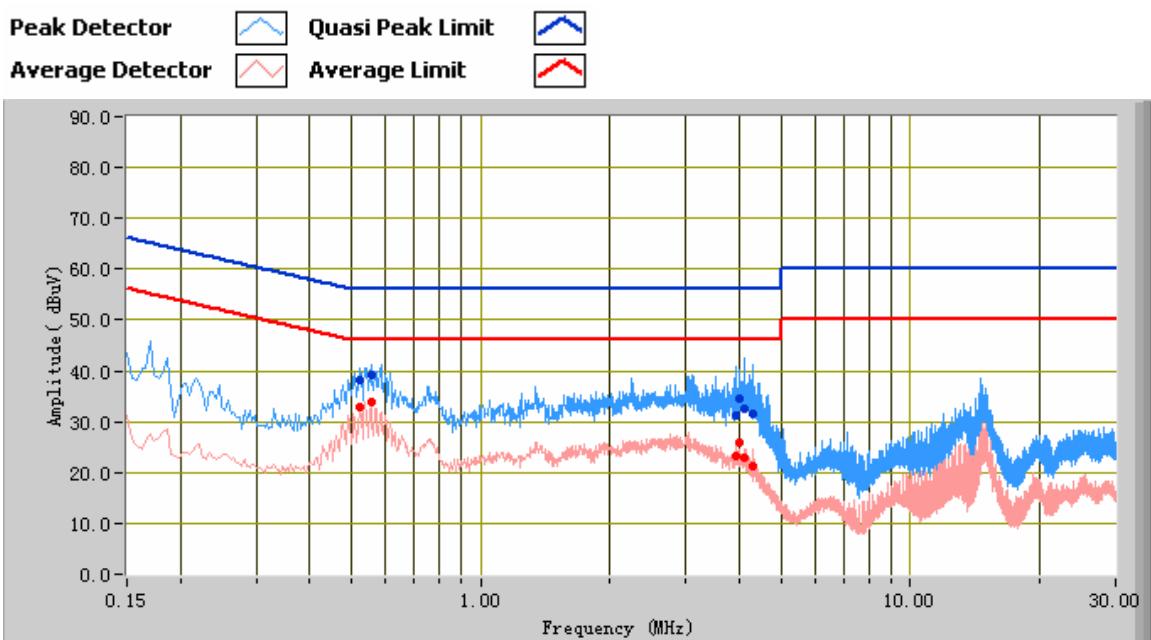
Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Average (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Factors (dB)
0.55	38.97	56.00	-17.03	33.83	46.00	-12.17	10.16
3.47	34.50	56.00	-21.50	26.24	46.00	-19.76	10.34
4.05	33.19	56.00	-22.81	23.69	46.00	-22.31	10.50
0.52	38.09	56.00	-17.91	32.86	46.00	-13.14	10.16
4.09	33.05	56.00	-22.95	23.20	46.00	-22.80	10.49
4.24	32.17	56.00	-23.83	21.87	46.00	-24.13	10.47

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**Test Mode: Charging & Downloading****Test Data****Phase Neutral Plot at 120Vac, 60Hz**

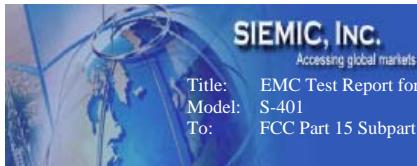
Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Average (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Factors (dB)
4.10	32.41	56.00	-23.59	22.85	46.00	-23.15	10.49
4.29	31.49	56.00	-24.51	21.10	46.00	-24.90	10.46
0.55	39.09	56.00	-16.91	33.93	46.00	-12.07	10.16
3.91	31.10	56.00	-24.90	23.13	46.00	-22.87	10.48
0.52	38.16	56.00	-17.84	32.99	46.00	-13.01	10.16
3.99	34.58	56.00	-21.42	25.81	46.00	-20.19	10.51



## **5.2 Radiated Emissions Test Result**

Note:

## Test Result: Pass

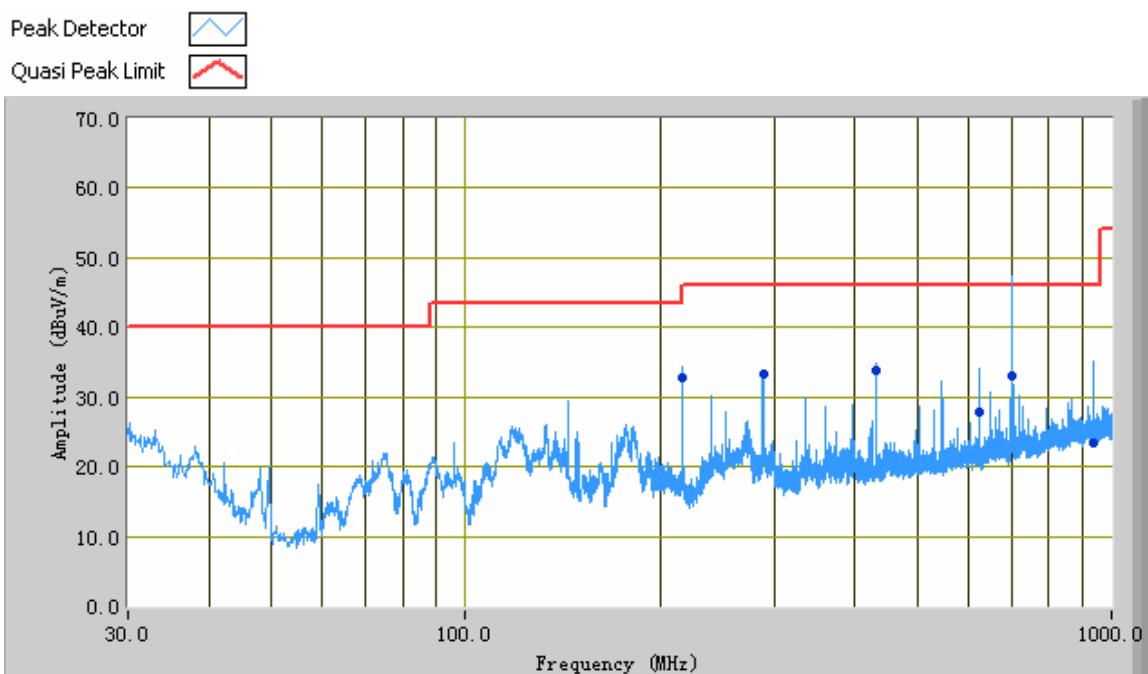


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**Test Mode:** Charging & Downloading

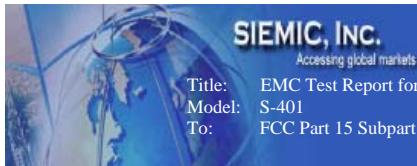
### Below 1GHz



### Test Data

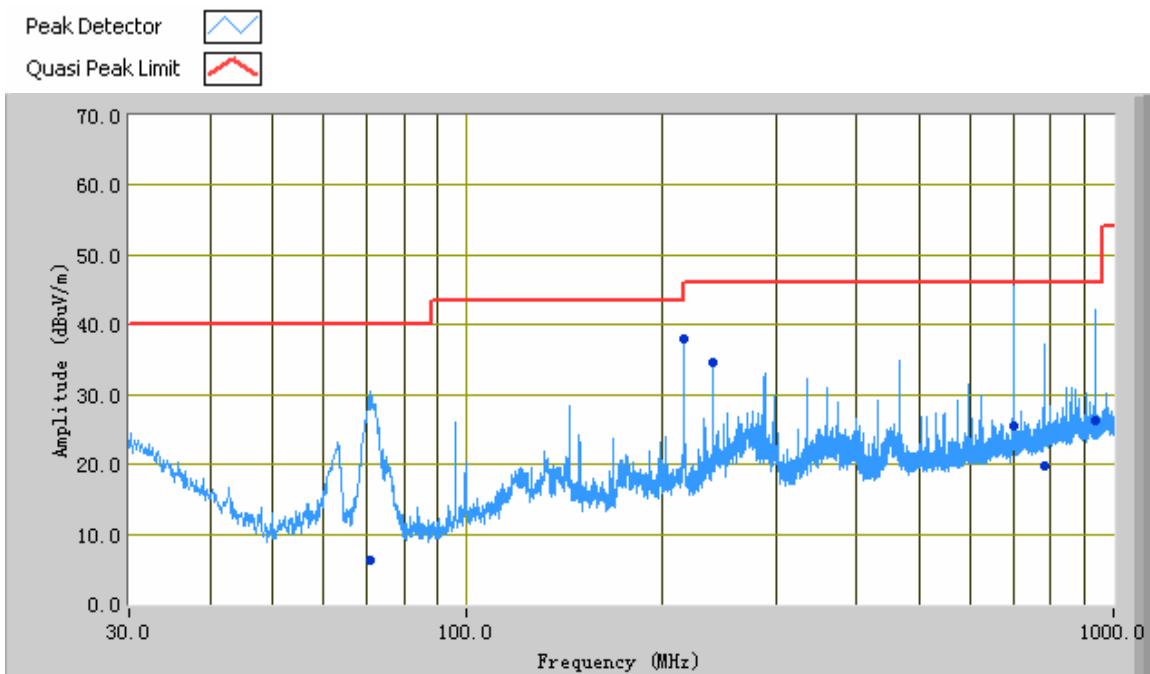
#### Vertical Polarity Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBµV/m)	Azimuth	Polarity(H /V)	Height (cm)	Factors (dB)	Limit (dBµV/m)	Margin (dB)
701.95	33.00	31.00	V	221.00	-21.91	46.00	-13.00
935.98	23.43	360.00	V	258.00	-20.48	46.00	-22.57
432.84	33.79	188.00	V	103.00	-29.19	46.00	-12.21
216.42	32.85	7.00	V	210.00	-33.59	46.00	-13.15
624.01	27.90	331.00	V	199.00	-24.23	46.00	-18.10
288.57	33.42	158.00	V	152.00	-31.52	46.00	-12.58



**Test Mode:** Charging & Downloading

### Below 1GHz



### Test Data

#### Horizontal Polarity Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dB $\mu$ V/m)	Azimuth	Polarity(H /V)	Height (cm)	Factors (dB)	Limit (dB $\mu$ V/m)	Margin (dB)
702.01	25.56	127.00	H	379.00	-21.90	46.00	-20.44
936.01	26.32	126.00	H	175.00	-20.49	46.00	-19.68
216.41	37.90	267.00	H	100.00	-33.59	46.00	-8.10
780.02	19.86	115.00	H	132.00	-21.44	46.00	-26.14
70.90	6.19	15.00	H	118.00	-37.12	40.00	-33.81
239.99	34.73	152.00	H	111.00	-33.05	46.00	-11.27

*Note: The data above 1 GHz which below 20 dB to the limit was not recorded.*

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## **Annex A. TEST INSTRUMENT & METHOD**

### **Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES**

Instrument	Model	Calibration Date	Calibration Due Date
<b>AC Line Conducted Emissions</b>			
R&S EMI Test Receiver	ESPI3	05/25/2011	05/25/2012
Com-Power LISN	LI-115	05/25/2011	05/25/2012
A-INFOMW Antenna(1 ~18GHz)	JXTXLB-10180	06/02/2011	06/02/2012
Universal Radio Communication Tester	CMU200	02/22/2012	02/22/2013
<b>Radiated Emissions</b>			
Hp Spectrum Analyzer	8563E	01/10/2012	01/10/2013
R&S EMI Receiver	ESPI3	05/18/2011	05/18/2012
Antenna (30MHz~2GHz)	JB1	05/25/2011	05/25/2012
ETS-Lindgren Antenna(1 ~18GHz)	3115	06/02/2011	06/02/2012
A-INFOMW Antenna(1 ~18GHz)	JXTXLB-10180	06/02/2011	06/02/2012
Horn Antenna (18~40GHz)	AH-840	07/23/2011	07/23/2013
Microwave Pre-Amp (18~40GHz)	PA-840	Every 2000 Hours	
Hp Agilent Pre-Amplifier	8447F	05/25/2011	05/25/2012
MITEQ Pre-Amplifier(1 ~ 18GHz)	AMF-7D-00101800-30-10P	05/25/2011	05/25/2012
Universal Radio Communication Tester	CMU200	02/22/2012	02/22/2013
Chamber	3m	04/13/2011	04/13/2012



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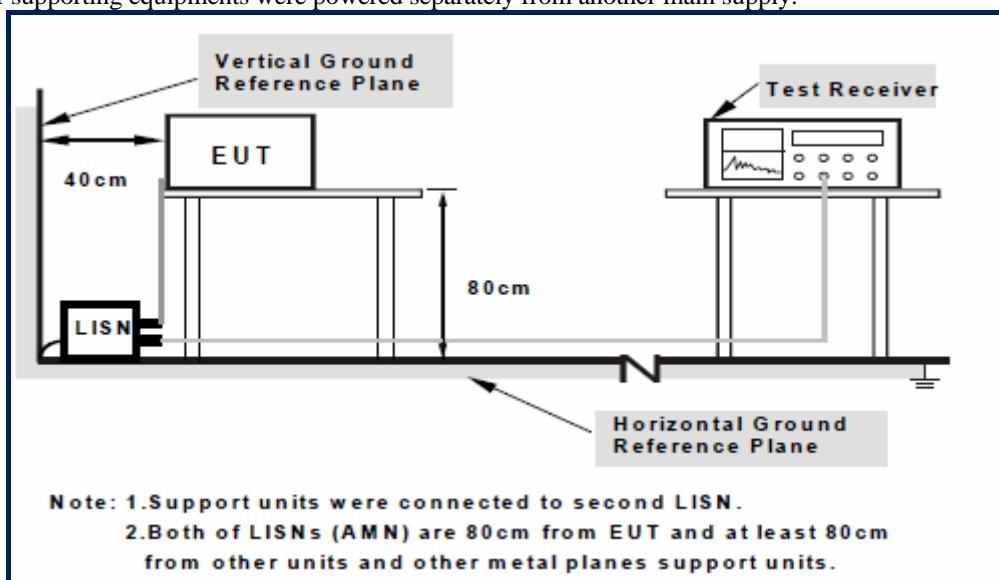
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## **Annex A.ii. AC LINE CONDUCTED EMISSIONS TEST DESCRIPTION**

### **Test Set-up**

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.
2. The power supply for the EUT was fed through a  $50\Omega/50\mu\text{H}$  EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1

### **Test Method**

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

### **Description of Conducted Emission Program**

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the common scan range from 150 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.



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## Sample Calculation Example

At 20 MHz limit = 250  $\mu$ V = 47.96 dB $\mu$ V

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dB $\mu$ V  
(Calibrated for system losses)

Therefore, Q-P margin = 47.96 – 40.00 = 7.96 i.e. **7.96 dB below limit**



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### **Annex A.iii. RADIATED EMISSIONS TEST DESCRIPTION**

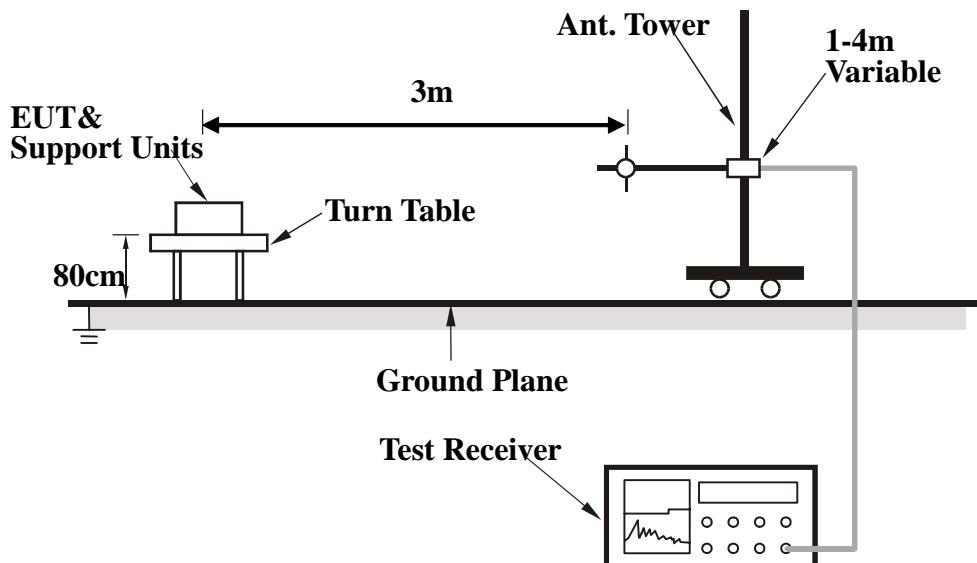
#### **EUT Characterisation**

EUT characterisation, over the frequency range from 30MHz to 10<sup>th</sup> Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

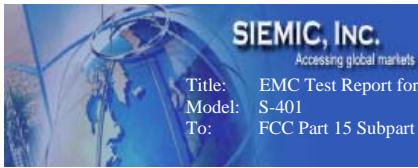
The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer / receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or 3m EMC chamber.

#### **Test Set-up**

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration2



## Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

### Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

## Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\text{Average} = \text{Peak Value} + \text{Duty Factor} \text{ or}$$
$$\text{Set RBW} = 1\text{MHz}, \text{VBW} = 10\text{Hz}.$$

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



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## **Annex B. EUT AND TEST SETUP PHOTOGRAPHS**

**Please see attachment**



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## **Annex C. TEST SETUP AND SUPPORTING EQUIPMENT**

### **EUT TEST CONDITIONS**

#### **Annex B. i. SUPPORTING EQUIPMENT DESCRIPTION**

The following is a description of supporting equipment and details of cables used with the EUT.

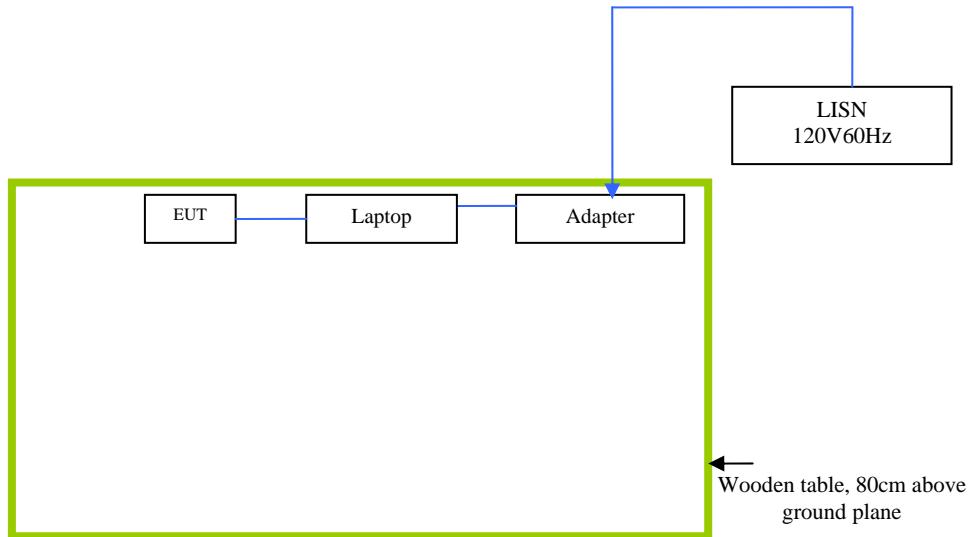
Equipment Description (Including Brand Name)	Model & Serial Number	Cable Description (List Length, Type & Purpose)
Gateway Laptop	MS2288 & LXWHF02013951C3CA92200	N/A

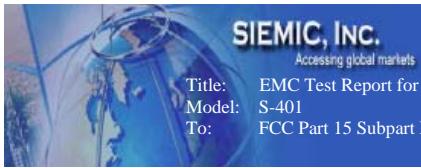


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## Block Configuration Diagram for AC Line Conducted Emissions

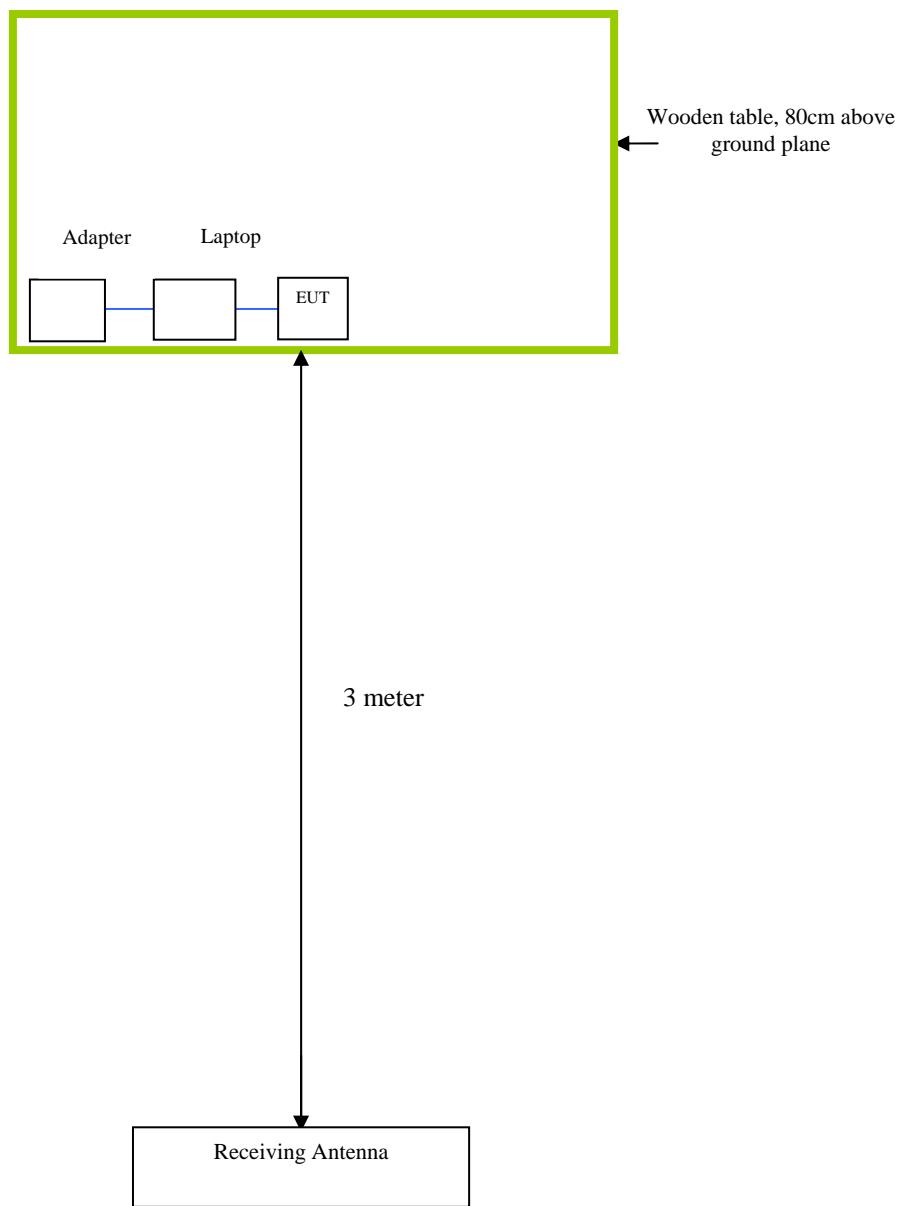




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## Block Configuration Diagram for Radiated Emissions





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## **Annex C.ii. EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	Charging & Downloading



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## **Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST**

**Please see attachment**



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## **Annex E. DECLARATION OF SIMILARITY**

**Please see attachment**