

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H and PART 24 SUBPART E

OF

Product Name: Basic Function tracking system

Brand Name: PORTMAN

Model Name: GT3200XT, GT3010XT, GT3200XT-KP,
GT3200XT-100

Model Difference: Functional difference. Please refer to next
page for detail.

FCC ID: TBQGT-3200XT

GSM Module ID: QIPMC55I

Report No.: EH/2008/80029

Issue Date: Sep. 09, 2008

FCC Rule Part: 2, 22H & 24E

Prepared for: PORTMAN ELECTRONICS (SHENZHEN)
CO., LTD.
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Longhua, Baoan, Shenzhen 518109, China

Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: PORTMAN ELECTRONICS(SHENZHEN)CO., LTD.
 9th Building, Tong Fuyu Industrial Park, Longhua, Baoan, Shenzhen
 518109, China

Product Name: Basic Function tracking system

Brand Name: PORTMAN

FCC ID: TBQGT-3200XT

Model No.: GT3200XT, GT3010XT, GT3200XT-KP, GT3200XT-100

Model Difference: Functional difference: GT3010XT can not optional handfree and MIC in accordance with GT3200XT. GT3200XT-KP can optional Infrared Keypad/hand free/MIC in accordance with GT3200XT. GT3200XT-100 can optional HS100/hand free/MIC in accordance with GT3200XT

File Number: EH/2008/80029

Date of test: Aug. 26, 2008 ~ Sep. 07, 2008

Date of EUT Received: Aug. 26, 2008

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 subpart H and FCC PART 24 subpart E.

The test results of this report relate only to the tested sample identified in this report.

| | | | |
|---------------------|--|-------------|------------------------|
| Test By: |  <hr/> Sky Wang/Asst. Supervisor | Date | Sep. 09, 2008 <hr/> |
| Prepared By: |  <hr/> Elisa Chen/Asst. Supervisor | Date | Sep. 09, 2008 <hr/> |
| Approved By |  <hr/> Vincent Su/Manager | Date | Sep. 09, 2008 <hr/> |

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Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
| 00 | Sep. 09, 2008 | Initial creation of document |
| | | |

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1. GENERAL INFORMATION

| | |
|-------------------|--|
| Product Name: | Basic Function tracking system |
| Brand Name: | PORTMAN |
| Model Name: | GT3200XT, GT3010XT, GT3200XT-KP, GT3200XT-100 |
| Model Difference: | Functional difference: GT3010XT can not optional handfree and MIC in accordance with GT3200XT. GT3200XT-KP can optional Infrared Keypad/hand free/MIC in accordance with GT3200XT. GT3200XT-100 can optional HS100/hand free/MIC in accordance with GT3200XT |
| Power Supply | 12V from Car battery |

GSM:

| | | | |
|---|-------------------------|-------------------|--------|
| Cellular Phone Standards Frequency Range and Power | GSM/GPRS 850, class 10 | 824 MHz– 849MHz | 33 dBm |
| | GSM/GPRS 1900, class 10 | 1850MHz – 1910MHz | 30 dBm |
| Type of Emission | GSM: 300KGXW | | |
| IMEI | 352024020314460 | | |

This test report applies for GSM 850 and GSM 1900.

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1.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **TBQGT-3200XT** filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

1.2 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 (2003) and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

1.3 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

All equipment is calibrated externally and traceable to SI (International System of Unit).

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 AC Power Line Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI 63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.3 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C. The EUT is placed on a turn table which is 1.0 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements.

A standard antenna was used to replace the EUT and connect to the SG. Adjust the SG output level to reach the max emission level which were measured above.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

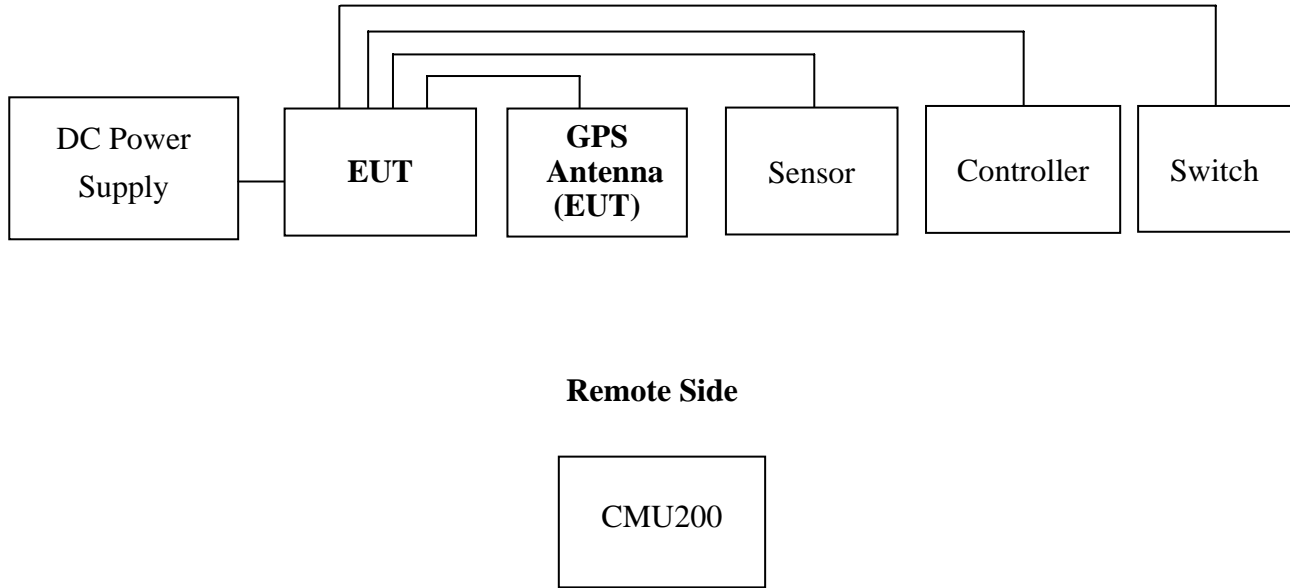


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------------------------|-----------|----------------|------------|--------------|--------------|
| 1. | Universal Radio Communication Tester | R&S | CMU200 | 102189 | N/A | Un-shielded |
| 2. | DC Power Supply | Topward | 3303A | 715856 | N/A | Un-sheilding |
| 3. | Sensor | PORTMAN | SK-850 | N/A | Un-sheilding | N/A |
| 4. | Controller | PORTMAN | UL-210 | N/A | Un-sheilding | N/A |
| 5. | Switch | PORTMAN | TM-600 | N/A | Un-sheilding | N/A |

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3. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|--|--|-----------|
| §2.1046(a) §22.913(a) §24.232(a) | RF Power Output | Compliant |
| §2.1046(a) §22.913(a) §24.232(a) | ERP/ EIRP measurement | Compliant |
| §2.1049(h) | 99% Occupied Bandwidth | N/A |
| §2.1051 §22.917(a) §24.238(a) | Out of Band Emissions at Antenna Terminals and Band Edge | N/A |
| §2.1053 §22.917(a) §24.238(a) | Field Strength of Spurious Radiation | Compliant |
| §2.1055(a)(1)(b) | Frequency Stability vs. Temperature | N/A |
| §2.1055(d)(1)(2) | Frequency Stability vs. Voltage | N/A |
| §15.107;§15.207 | AC Power Line Conducted Emission | N/A |

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The GSM module was approved and the FCC ID number is **QIPMC55I**. Thus, the output power, ERP/EIRP, Field Strength of Spurious Radiation and AC Power Line Conducted Emission were tested at GSM modes.

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5. RF POWER OUTPUT MEASUREMENT

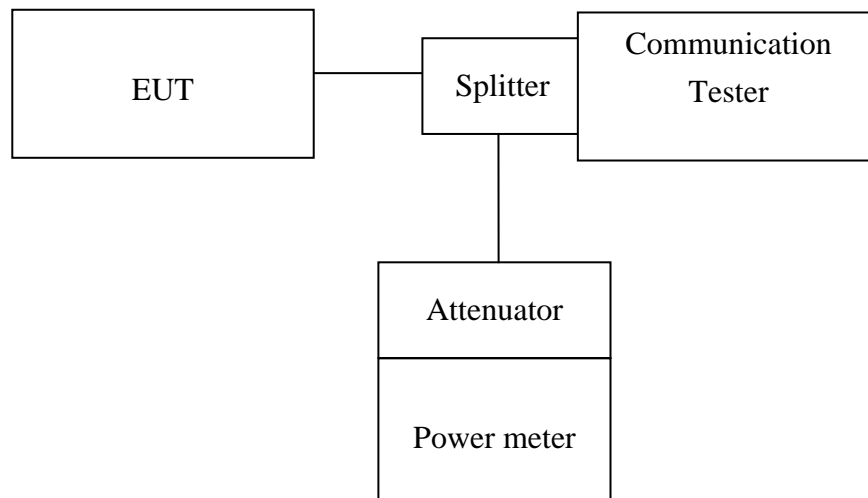
5.1 Standard Applicable

According to FCC §2.1046.

FCC 22.913(a) Mobile station are limited to 7W.

FCC 24.232(b) Mobile station are limited to 2W.

5.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

5.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. was used for EUT and Base station setting.

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5.4 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 07/04/2007 | 07/03/2009 |
| Spectrum Analyzer | R&S | FSP 40 | 100034 | 02/22/2008 | 02/21/2009 |
| Communication Test | R&S | CMU200 | 102189 | 05/13/2008 | 05/12/2009 |
| Power Sensor | Anritsu | MA2490A | 31431 | 07/07/2007 | 07/06/2009 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 05/28/2008 | 05/27/2010 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 04/14/2008 | 04/13/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 02/13/2008 | 02/12/2009 |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 07/05/2008 | 07/04/2009 |
| Splitter | Agilent | 11636B | 51818 / 51820 | 07/05/2008 | 07/04/2009 |
| DC Power Supply | Agilent | 6038A | 2929A-07548 | 06/27/2007 | 06/26/2009 |

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5.5 Measurement Result

| EUT Mode | Frequency (MHz) | CH | Power meter Reading (dBm) | Path Loss (dB) | Peak Power (dBm) |
|----------|-----------------|-----|---------------------------|----------------|------------------|
| GSM 850 | 824.20 | 128 | 32.37 | 0.00 | 32.37 |
| | 836.60 | 190 | 32.84 | 0.00 | 32.84 |
| | 848.80 | 251 | 32.91 | 0.00 | 32.91 |

| EUT Mode | Frequency (MHz) | CH | Power Meter Reading (dBm) | Path Loss (dB) | Peak Power (dBm) |
|----------|-----------------|-----|---------------------------|----------------|------------------|
| PCS 1900 | 1850.20 | 512 | 29.20 | 0.00 | 29.20 |
| | 1880.00 | 661 | 29.62 | 0.00 | 29.62 |
| | 1909.80 | 810 | 29.07 | 0.00 | 29.07 |

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6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

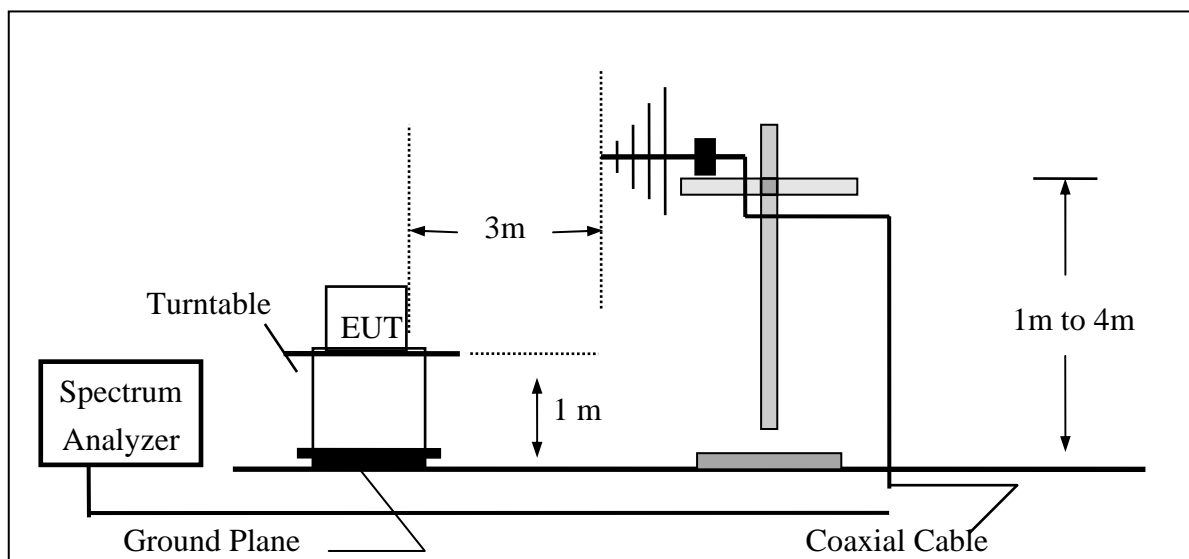
According to FCC §2.1046

FCC 22.913(a) Mobile station are limited to 7W ERP.

FCC 24.232(b) Mobile station are limited to 2W EIRP.

6.2 Test SET-UP (Block Diagram of Configuration)

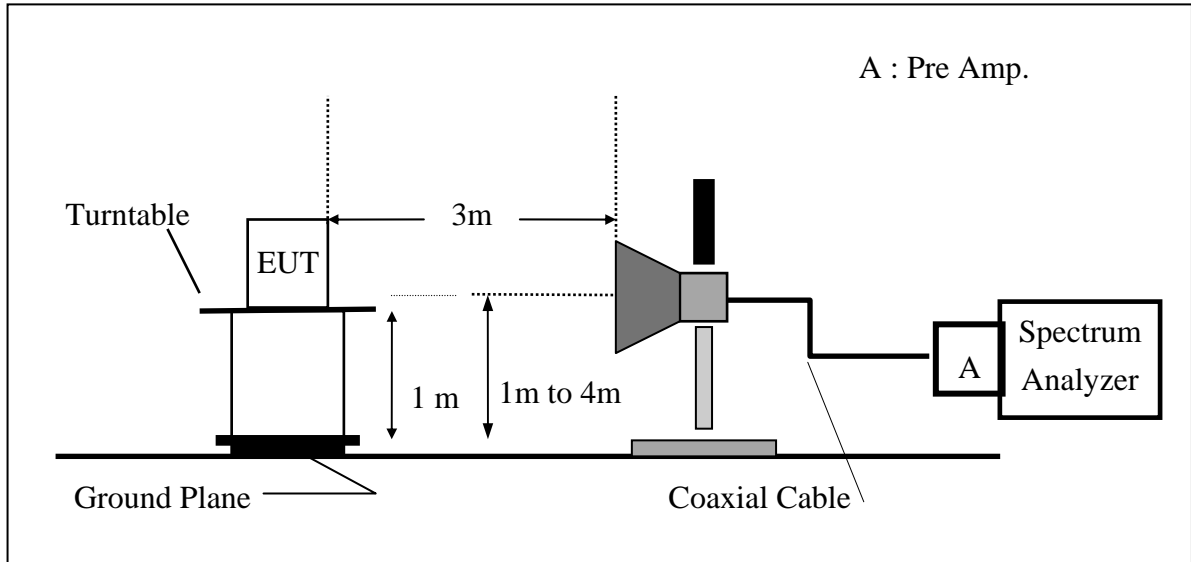
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



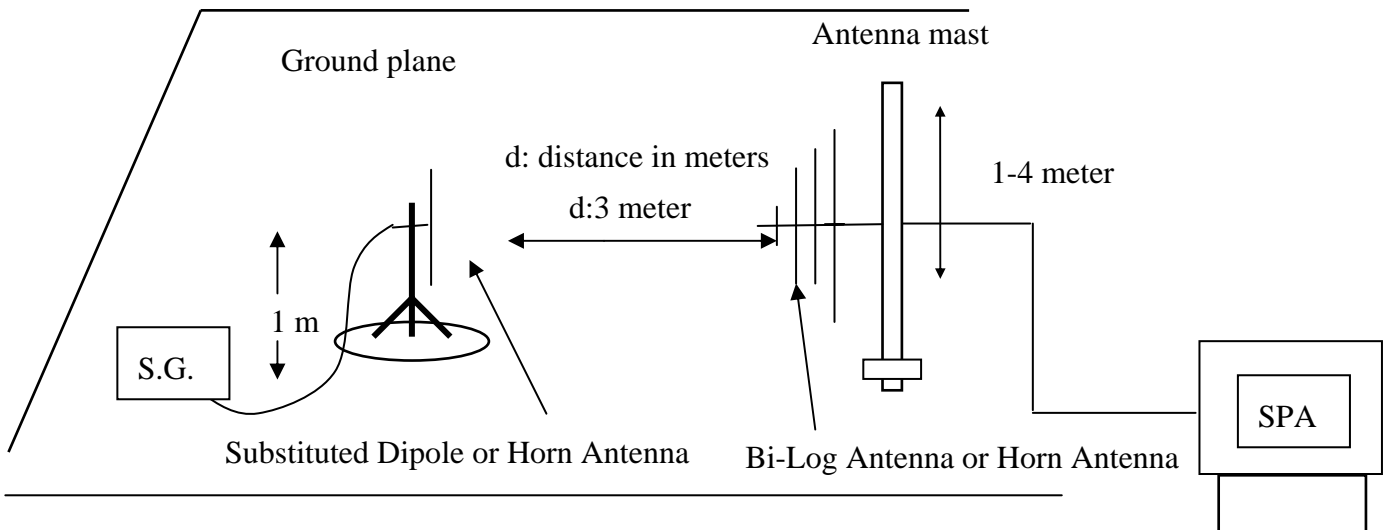
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3 Measurement Procedure

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

6.4 Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|--------------------|--------------|----------------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 07/04/2007 | 07/03/2009 |
| Spectrum Analyzer | R&S | FSP 40 | 100034 | 02/22/2008 | 02/21/2009 |
| Communication Test | R&S | CMU200 | 102189 | 05/13/2008 | 05/12/2009 |
| Bi-log Antenna | SCHWAZBECK | VULB9160 | 3224 | 11/29/2007 | 11/28/2008 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | 309/320 | 03/14/2008 | 03/13/2009 |
| Pre-Amplifier | HP | 8447F | 3113A06892 | 01/05/2008 | 01/04/2009 |
| Pre-Amplifier | HP | 8449B | 3008A01973 | 01/05/2008 | 01/04/2009 |
| Signal Generator | R&S | SMR40 | 100210 | 01/22/2008 | 01/21/2009 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-10M | 10m | 02/13/2008 | 02/12/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 02/13/2008 | 02/12/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-0.5M | 0.5m | 02/13/2008 | 02/12/2009 |
| Site NSA | SGS | 966 chamber | N/A | 11/17/2007 | 11/16/2008 |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 07/05/2008 | 07/04/2009 |
| Dipole Antenna | SCHWAZBECK | VHAP | 908/909 | 07/10/2008 | 07/10/2010 |
| Dipole Antenna | SCHWAZBECK | UHAP | 891/892 | 07/10/2008 | 07/10/2010 |

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6.5 Measurement Result

| EUT Mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|----------|-----------------|-----|----------|--------------|--------------------|-------------------|--------------------|-----------------|-----------|-------------|
| GSM 850 | 824.20 | 128 | H | V | 143.12 | 39.39 | -7.87 | 2.48 | 29.04 | 38.45 |
| | | | | H | 139.41 | 35.94 | -7.87 | 2.48 | 25.59 | 38.45 |
| | 836.60 | 190 | H | V | 143.33 | 39.60 | -7.88 | 2.51 | 29.21 | 38.45 |
| | | | | H | 139.83 | 36.23 | -7.88 | 2.51 | 25.84 | 38.45 |
| | 848.80 | 251 | H | V | 144.41 | 40.67 | -7.88 | 2.54 | 30.25 | 38.45 |
| | | | | H | 140.28 | 36.55 | -7.88 | 2.54 | 26.14 | 38.45 |

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=300 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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| EUT Mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) |
|----------|-----------------|-----|----------|--------------|--------------------|-------------------|--------------------|-----------------|------------|-------------|
| PCS 1900 | 1850.20 | 512 | H | V | 138.89 | 23.10 | 9.90 | 3.77 | 29.23 | 33.00 |
| | | | | H | 136.52 | 20.97 | 9.90 | 3.77 | 27.10 | 33.00 |
| | 1880.00 | 661 | H | V | 138.42 | 22.61 | 9.99 | 3.80 | 28.80 | 33.00 |
| | | | | H | 134.01 | 18.45 | 9.99 | 3.80 | 24.64 | 33.00 |
| | 1909.80 | 810 | H | V | 137.11 | 21.28 | 10.08 | 3.83 | 27.53 | 33.00 |
| | | | | H | 134.56 | 18.99 | 10.08 | 3.83 | 25.24 | 33.00 |

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=300 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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7. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

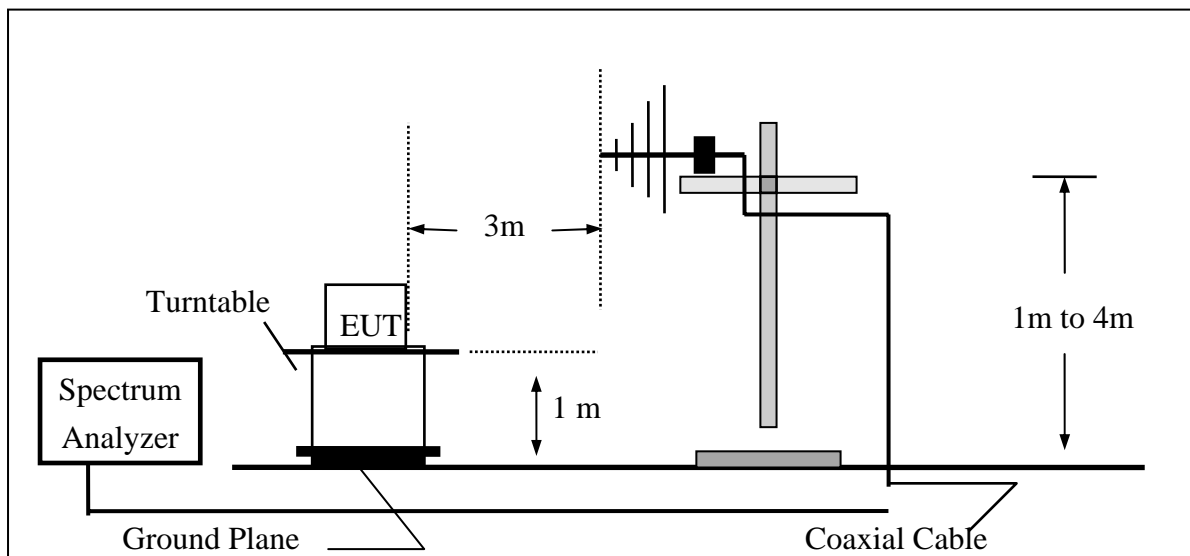
7.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

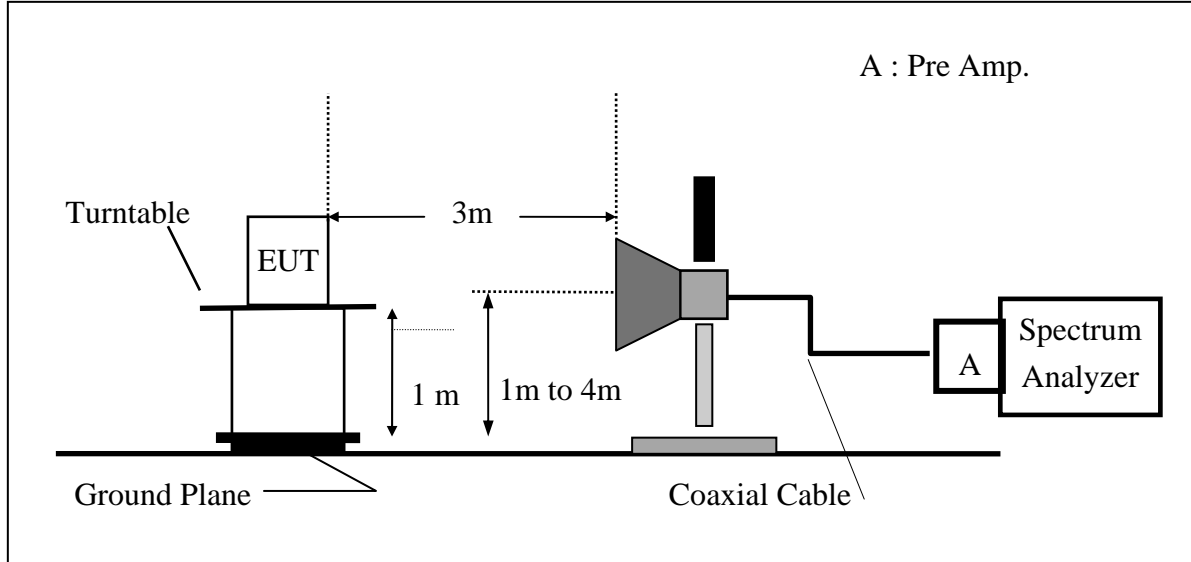
7.2 EUT Setup (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz

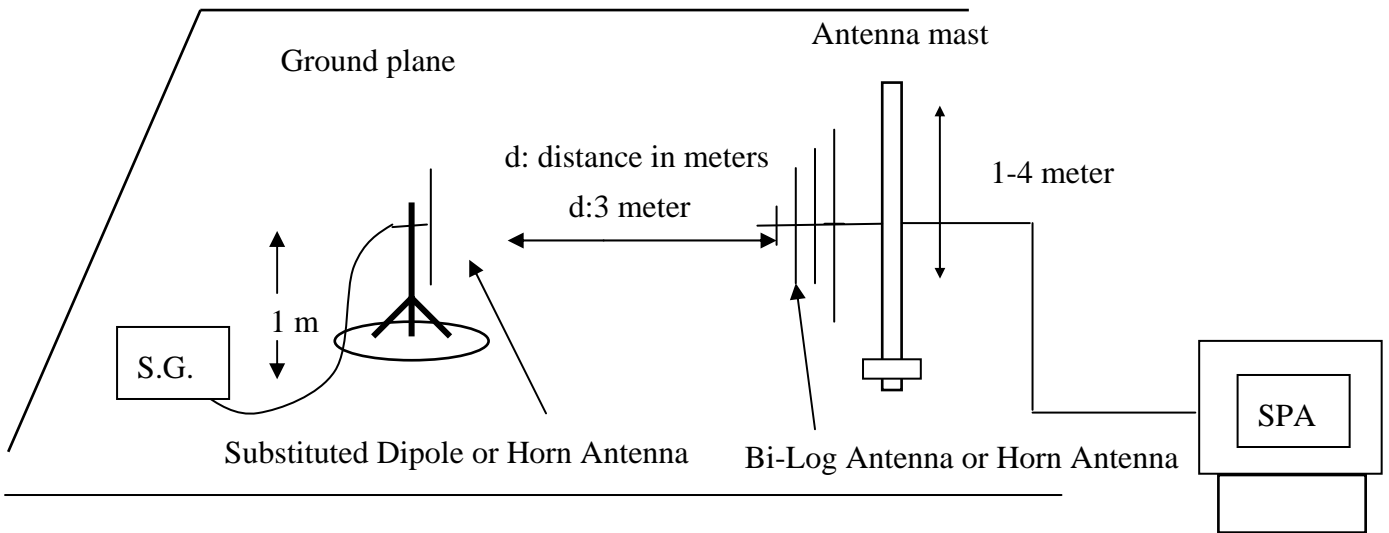


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3 Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss (dB)}$$

7.4 Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|--------------------|--------------|----------------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 07/04/2007 | 07/03/2009 |
| Spectrum Analyzer | R&S | FSP 40 | 100034 | 02/22/2008 | 02/21/2009 |
| Communication Test | R&S | CMU200 | 102189 | 05/13/2008 | 05/12/2009 |
| Bi-log Antenna | SCHWAZBECK | VULB9160 | 3224 | 11/29/2007 | 11/28/2008 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | 309/320 | 03/14/2008 | 03/13/2009 |
| Pre-Amplifier | HP | 8447F | 3113A06892 | 01/05/2008 | 01/04/2009 |
| Pre-Amplifier | HP | 8449B | 3008A01973 | 01/05/2008 | 01/04/2009 |
| Signal Generator | R&S | SMR40 | 100210 | 01/22/2008 | 01/21/2009 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-10M | 10m | 02/13/2008 | 02/12/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 02/13/2008 | 02/12/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-0.5M | 0.5m | 02/13/2008 | 02/12/2009 |
| Site NSA | SGS | 966 chamber | N/A | 11/17/2007 | 11/16/2008 |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 07/05/2008 | 07/04/2009 |
| Dipole Antenna | SCHWAZBECK | VHAP | 908/909 | 07/10/2008 | 07/10/2010 |
| Dipole Antenna | SCHWAZBECK | UHAP | 891/892 | 07/10/2008 | 07/10/2010 |

7.5 Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Sep. 03, 2008 |
| Fundamental Frequency | : 824.20 MHz | Test By: | Sky |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 33.88 | 52.00 | V | -64.08 | -5.52 | 0.57 | -70.17 | -13.00 | -57.17 |
| 58.13 | 58.31 | V | -64.45 | -0.49 | 0.67 | -65.61 | -13.00 | -52.61 |
| 85.29 | 56.76 | V | -61.86 | -7.75 | 0.44 | -70.05 | -13.00 | -57.05 |
| 824.00 | 88.02 | V | -15.71 | -7.87 | 2.48 | -26.06 | -13.00 | -13.06 |
| 1648.40 | 64.77 | V | -50.86 | 9.29 | 3.56 | -45.14 | -13.00 | -32.14 |
| 2472.60 | 56.73 | V | -56.84 | 10.08 | 4.42 | -51.19 | -13.00 | -38.19 |
| 3296.80 | --- | V | | 12.17 | 5.15 | | -13.00 | |
| 4121.00 | --- | V | | 12.61 | 5.77 | | -13.00 | |
| 4945.20 | --- | V | | 12.65 | 6.40 | | -13.00 | |
| 5769.40 | --- | V | | 13.55 | 7.12 | | -13.00 | |
| 6593.60 | --- | V | | 12.05 | 7.73 | | -13.00 | |
| 7417.80 | --- | V | | 11.49 | 8.21 | | -13.00 | |
| 8242.00 | --- | V | | 11.48 | 8.84 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Sep. 03, 2008 |
| Fundamental Frequency | : 824.20 MHz | Test By: | Sky |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 111.48 | 62.94 | H | -55.32 | -7.77 | 0.91 | -64.00 | -13.00 | -51.00 |
| 145.43 | 55.81 | H | -61.45 | -7.80 | 1.01 | -70.25 | -13.00 | -57.25 |
| 206.54 | 50.49 | H | -62.95 | -7.85 | 1.33 | -72.13 | -13.00 | -59.13 |
| 824.00 | 83.49 | H | -19.98 | -7.87 | 2.48 | -30.33 | -13.00 | -17.33 |
| 1648.40 | 63.10 | H | -52.37 | 9.29 | 3.56 | -46.65 | -13.00 | -33.65 |
| 2472.60 | 55.46 | H | -57.72 | 10.08 | 4.42 | -52.07 | -13.00 | -39.07 |
| 3296.80 | --- | H | | 12.17 | 5.15 | | -13.00 | |
| 4121.00 | --- | H | | 12.61 | 5.77 | | -13.00 | |
| 4945.20 | --- | H | | 12.65 | 6.40 | | -13.00 | |
| 5769.40 | --- | H | | 13.55 | 7.12 | | -13.00 | |
| 6593.60 | --- | H | | 12.05 | 7.73 | | -13.00 | |
| 7417.80 | --- | H | | 11.49 | 8.21 | | -13.00 | |
| 8242.00 | --- | H | | 11.48 | 8.84 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date: | Sep. 03, 2008 |
| Fundamental Frequency | : 836.60 MHz | Test By: | Sky |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 33.88 | 52.60 | V | -63.48 | -5.52 | 0.57 | -69.57 | -13.00 | -56.57 |
| 58.13 | 58.51 | V | -64.25 | -0.49 | 0.67 | -65.41 | -13.00 | -52.41 |
| 85.29 | 56.66 | V | -61.96 | -7.75 | 0.44 | -70.15 | -13.00 | -57.15 |
| 1673.20 | 65.89 | V | -49.76 | 9.36 | 3.59 | -43.99 | -13.00 | -30.99 |
| 2509.80 | 56.41 | V | -57.03 | 10.09 | 4.46 | -51.40 | -13.00 | -38.40 |
| 3346.40 | --- | V | | 12.28 | 5.19 | | -13.00 | |
| 4183.00 | --- | V | | 12.62 | 5.82 | | -13.00 | |
| 5019.60 | --- | V | | 12.67 | 6.46 | | -13.00 | |
| 5856.20 | --- | V | | 13.68 | 7.21 | | -13.00 | |
| 6692.80 | --- | V | | 11.95 | 7.80 | | -13.00 | |
| 7529.40 | --- | V | | 11.45 | 8.27 | | -13.00 | |
| 8366.00 | --- | V | | 11.59 | 8.93 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date: | Sep. 03, 2008 |
| Fundamental Frequency | : 836.60 MHz | Test By: | Sky |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 111.48 | 62.56 | H | -55.70 | -7.77 | 0.91 | -64.38 | -13.00 | -51.38 |
| 148.34 | 55.77 | H | -61.40 | -7.80 | 1.02 | -70.21 | -13.00 | -57.21 |
| 206.54 | 51.97 | H | -61.47 | -7.85 | 1.33 | -70.65 | -13.00 | -57.65 |
| 1673.20 | 64.30 | H | -51.18 | 9.36 | 3.59 | -45.41 | -13.00 | -32.41 |
| 2509.80 | 54.37 | H | -58.67 | 10.09 | 4.46 | -53.04 | -13.00 | -40.04 |
| 3346.40 | --- | H | | 12.28 | 5.19 | | -13.00 | |
| 4183.00 | --- | H | | 12.62 | 5.82 | | -13.00 | |
| 5019.60 | --- | H | | 12.67 | 6.46 | | -13.00 | |
| 5856.20 | --- | H | | 13.68 | 7.21 | | -13.00 | |
| 6692.80 | --- | H | | 11.95 | 7.80 | | -13.00 | |
| 7529.40 | --- | H | | 11.45 | 8.27 | | -13.00 | |
| 8366.00 | --- | H | | 11.59 | 8.93 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Sep. 03, 2008 |
| Fundamental Frequency | : 848.80 MHz | Test By: | Sky |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 33.88 | 52.36 | V | -63.72 | -5.52 | 0.57 | -69.81 | -13.00 | -56.81 |
| 58.13 | 58.58 | V | -64.18 | -0.49 | 0.67 | -65.34 | -13.00 | -52.34 |
| 85.29 | 56.82 | V | -61.80 | -7.75 | 0.44 | -69.99 | -13.00 | -56.99 |
| 850.00 | 86.50 | V | -17.24 | -7.88 | 2.54 | -27.66 | -13.00 | -14.66 |
| 1697.60 | 65.61 | V | -50.06 | 9.44 | 3.61 | -44.23 | -13.00 | -31.23 |
| 2546.40 | 57.49 | V | -55.95 | 10.20 | 4.49 | -50.25 | -13.00 | -37.25 |
| 3395.20 | --- | V | | 12.38 | 5.23 | | -13.00 | |
| 4244.00 | --- | V | | 12.63 | 5.87 | | -13.00 | |
| 5092.80 | --- | V | | 12.74 | 6.51 | | -13.00 | |
| 5941.60 | --- | V | | 13.81 | 7.31 | | -13.00 | |
| 6790.40 | --- | V | | 11.86 | 7.87 | | -13.00 | |
| 7639.20 | --- | V | | 11.40 | 8.36 | | -13.00 | |
| 8488.00 | --- | V | | 11.70 | 9.02 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Sep. 03, 2008 |
| Fundamental Frequency | : 848.80 MHz | Test By: | Sky |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 111.48 | 64.22 | H | -54.04 | -7.77 | 0.91 | -62.72 | -13.00 | -49.72 |
| 140.58 | 55.41 | H | -61.99 | -7.79 | 0.99 | -70.77 | -13.00 | -57.77 |
| 206.54 | 50.77 | H | -62.67 | -7.85 | 1.33 | -71.85 | -13.00 | -58.85 |
| 850.00 | 81.87 | H | -21.87 | -7.88 | 2.54 | -32.29 | -13.00 | -19.29 |
| 1697.60 | 62.70 | H | -52.79 | 9.44 | 3.61 | -46.97 | -13.00 | -33.97 |
| 2546.40 | 54.65 | H | -58.41 | 10.20 | 4.49 | -52.71 | -13.00 | -39.71 |
| 3395.20 | --- | H | | 12.38 | 5.23 | | -13.00 | |
| 4244.00 | --- | H | | 12.63 | 5.87 | | -13.00 | |
| 5092.80 | --- | H | | 12.74 | 6.51 | | -13.00 | |
| 5941.60 | --- | H | | 13.81 | 7.31 | | -13.00 | |
| 6790.40 | --- | H | | 11.86 | 7.87 | | -13.00 | |
| 7639.20 | --- | H | | 11.40 | 8.36 | | -13.00 | |
| 8488.00 | --- | H | | 11.70 | 9.02 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Sep. 03, 2008 |
| Fundamental Frequency | : 1850.20MHz | Test By: | Sky |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 33.88 | 52.05 | V | -64.03 | -5.52 | 0.57 | -70.12 | -13.00 | -57.12 |
| 58.13 | 58.57 | V | -64.19 | -0.49 | 0.67 | -65.35 | -13.00 | -52.35 |
| 1850.00 | 92.47 | V | -23.32 | 9.90 | 3.77 | -17.19 | -13.00 | -4.19 |
| 3700.40 | 69.48 | V | -43.05 | 12.61 | 5.46 | -35.90 | -13.00 | -22.90 |
| 5550.60 | --- | V | | 13.23 | 6.88 | | -13.00 | |
| 7400.80 | --- | V | | 11.50 | 8.20 | | -13.00 | |
| 9251.00 | --- | V | | 11.92 | 9.53 | | -13.00 | |
| 11101.20 | --- | V | | 11.66 | 10.53 | | -13.00 | |
| 12951.40 | --- | V | | 13.63 | 11.38 | | -13.00 | |
| 14801.60 | --- | V | | 12.76 | 12.26 | | -13.00 | |
| 16651.80 | --- | V | | 15.92 | 13.03 | | -13.00 | |
| 18502.00 | --- | V | | 18.75 | 7.03 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Sep. 03, 2008 |
| Fundamental Frequency | : 1850.20MHz | Test By: | Sky |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 111.48 | 63.67 | H | -54.59 | -7.77 | 0.91 | -63.27 | -13.00 | -50.27 |
| 126.03 | 57.03 | H | -60.80 | -7.78 | 0.95 | -69.53 | -13.00 | -56.53 |
| 140.58 | 56.99 | H | -60.41 | -7.79 | 0.99 | -69.19 | -13.00 | -56.19 |
| 1850.00 | 91.90 | H | -23.65 | 9.90 | 3.77 | -17.52 | -13.00 | -4.52 |
| 3700.40 | 69.95 | H | -42.60 | 12.61 | 5.46 | -35.45 | -13.00 | -22.45 |
| 5550.60 | --- | H | | 13.23 | 6.88 | | -13.00 | |
| 7400.80 | --- | H | | 11.50 | 8.20 | | -13.00 | |
| 9251.00 | --- | H | | 11.92 | 9.53 | | -13.00 | |
| 11101.20 | --- | H | | 11.66 | 10.53 | | -13.00 | |
| 12951.40 | --- | H | | 13.63 | 11.38 | | -13.00 | |
| 14801.60 | --- | H | | 12.76 | 12.26 | | -13.00 | |
| 16651.80 | --- | H | | 15.92 | 13.03 | | -13.00 | |
| 18502.00 | --- | H | | 18.75 | 7.03 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2008
 Test By: Sky
 Pol: Ver

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 58.13 | 58.78 | V | -63.98 | -0.49 | 0.67 | -65.14 | -13.00 | -52.14 |
| 85.29 | 56.36 | V | -62.26 | -7.75 | 0.44 | -70.45 | -13.00 | -57.45 |
| 3760.00 | 60.11 | V | -52.26 | 12.60 | 5.50 | -45.16 | -13.00 | -32.16 |
| 5640.00 | --- | V | | 13.36 | 6.98 | | -13.00 | |
| 7520.00 | --- | V | | 11.45 | 8.26 | | -13.00 | |
| 9400.00 | --- | V | | 11.93 | 9.61 | | -13.00 | |
| 11280.00 | --- | V | | 11.92 | 10.57 | | -13.00 | |
| 13160.00 | --- | V | | 13.33 | 11.53 | | -13.00 | |
| 15040.00 | --- | V | | 13.76 | 12.32 | | -13.00 | |
| 16920.00 | --- | V | | 15.27 | 13.14 | | -13.00 | |
| 18800.00 | --- | V | | 18.68 | 11.20 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2008
 Test By: Sky
 Pol: Hor

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 111.48 | 64.28 | H | -53.98 | -7.77 | 0.91 | -62.66 | -13.00 | -49.66 |
| 126.03 | 56.59 | H | -61.24 | -7.78 | 0.95 | -69.97 | -13.00 | -56.97 |
| 140.58 | 57.29 | H | -60.11 | -7.79 | 0.99 | -68.89 | -13.00 | -55.89 |
| 206.54 | 51.74 | H | -61.70 | -7.85 | 1.33 | -70.88 | -13.00 | -57.88 |
| 3760.00 | 59.59 | H | -52.78 | 12.60 | 5.50 | -45.68 | -13.00 | -32.68 |
| 5640.00 | --- | H | | 13.36 | 6.98 | | -13.00 | |
| 7520.00 | --- | H | | 11.45 | 8.26 | | -13.00 | |
| 9400.00 | --- | H | | 11.93 | 9.61 | | -13.00 | |
| 11280.00 | --- | H | | 11.92 | 10.57 | | -13.00 | |
| 13160.00 | --- | H | | 13.33 | 11.53 | | -13.00 | |
| 15040.00 | --- | H | | 13.76 | 12.32 | | -13.00 | |
| 16920.00 | --- | H | | 15.27 | 13.14 | | -13.00 | |
| 18800.00 | --- | H | | 18.68 | 11.20 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Sep. 03, 2008 |
| Fundamental Frequency | : 1909.8 MHz | Test By: | Sky |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 33.88 | 52.99 | V | -63.09 | -5.52 | 0.57 | -69.18 | -13.00 | -56.18 |
| 58.13 | 58.43 | V | -64.33 | -0.49 | 0.67 | -65.49 | -13.00 | -52.49 |
| 85.29 | 56.81 | V | -61.81 | -7.75 | 0.44 | -70.00 | -13.00 | -57.00 |
| 1910.00 | 90.28 | V | -25.55 | 10.08 | 3.83 | -19.30 | -13.00 | -6.30 |
| 3981.60 | 68.10 | V | -43.71 | 12.60 | 5.67 | -36.77 | -13.00 | -23.77 |
| 5972.40 | --- | V | | 13.86 | 7.34 | | -13.00 | |
| 7963.20 | --- | V | | 11.27 | 8.64 | | -13.00 | |
| 9954.00 | --- | V | | 12.08 | 9.85 | | -13.00 | |
| 11944.80 | --- | V | | 13.08 | 10.94 | | -13.00 | |
| 13935.60 | --- | V | | 11.82 | 11.94 | | -13.00 | |
| 15926.40 | --- | V | | 17.08 | 12.51 | | -13.00 | |
| 17917.20 | --- | V | | 9.63 | 13.58 | | -13.00 | |
| 19908.00 | --- | V | | 18.88 | 14.32 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Sep. 03, 2008 |
| Fundamental Frequency | : 1909.8 MHz | Test By: | Sky |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 111.48 | 61.54 | H | -56.72 | -7.77 | 0.91 | -65.40 | -13.00 | -52.40 |
| 140.58 | 56.21 | H | -61.19 | -7.79 | 0.99 | -69.97 | -13.00 | -56.97 |
| 206.54 | 51.71 | H | -61.73 | -7.85 | 1.33 | -70.91 | -13.00 | -57.91 |
| 1910.00 | 87.60 | H | -27.97 | 10.08 | 3.83 | -21.72 | -13.00 | -8.72 |
| 3981.60 | 69.71 | H | -42.00 | 12.60 | 5.67 | -35.07 | -13.00 | -22.07 |
| 5972.40 | 55.80 | H | -50.30 | 13.86 | 7.34 | -43.78 | -13.00 | -30.78 |
| 7963.20 | --- | H | | 11.27 | 8.64 | | -13.00 | |
| 9954.00 | --- | H | | 12.08 | 9.85 | | -13.00 | |
| 11944.80 | --- | H | | 13.08 | 10.94 | | -13.00 | |
| 13935.60 | --- | H | | 11.82 | 11.94 | | -13.00 | |
| 15926.40 | --- | H | | 17.08 | 12.51 | | -13.00 | |
| 17917.20 | --- | H | | 9.63 | 13.58 | | -13.00 | |
| 19908.00 | --- | H | | 18.88 | 14.32 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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8. AC POWER LINE CONDUCTED EMISSION TEST

8.1 Standard Applicable

According to §15.207. The emission value for frequency within 150KHz to 30MHz shall not exceed criteria of below chart.

| Frequency range MHz | Limits dB(uV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

8.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
2. The EUT was plug-in DC power adaptor and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 110Vac/60Hz power source.

8.3 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

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8.4 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|-------------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCS30 | 828985/004 | 09/15/2007 | 09/14/2008 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 02/18/2008 | 02/17/2009 |
| LISN | FCC | FCC-LISN-50/250-25-2-01 | 04034 | 02/18/2008 | 02/17/2009 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 10/30/2007 | 10/29/2008 |

8.5 Measurement Result

N/A.

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