

# EMC

## TEST REPORT

**Report No.** : EME-061025  
**Model No.** : 36582, 36287, 36297, 36282, 36807,  
36802, 36170, 36121, 36122, 36587,  
36582, 36287, 36297, 36282, 36807,  
36802, 36170, 36121, 36122  
UA202xxy, U200xxy, UA201xyz,  
UA215xxy, UA204xxy, U200xxy,  
UA201xyz

**Issued Date** : Sep. 14, 2006

**Applicant** : SENTON Enterprises Limited  
Flat 10, 17F., Fotan Ind. Centre, 26-28 Au Pui Wan St., Fo  
Tan, Shatin, N.T. Hong Kong

**Test By** : Intertek Testing Services Taiwan Ltd.  
No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li,  
Shiang-Shan District, Hsinchu City, Taiwan

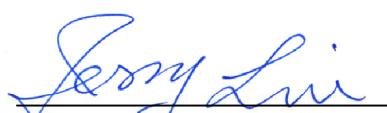
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Project Engineer



Kevin Chen

Reviewed By



Jerry Liu

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**Summary of Tests****2.4 GHz Cordless Phone-Model: 36587  
FCC ID: PEG36587**

| Test                               | Reference         | Results |
|------------------------------------|-------------------|---------|
| Power Line Conducted Emission test | 15.207            | Pass    |
| Radiated Emission test             | 15.249(c), 15.209 | Pass    |

## 1. General information

### 1.1 Identification of the EUT

|                                     |                                                  |
|-------------------------------------|--------------------------------------------------|
| Applicant                           | : SENTON Enterprises Limited                     |
| Product                             | : 2.4GHz Cordless phone                          |
| Model No.                           | : 36587                                          |
| FCC ID.                             | : PEG36587                                       |
| Frequency Range (Handset)           | : 2470.2MHz ~ 2478.9MHz                          |
| Frequency Range (Base)              | : 2400.3MHz ~ 2409.0MHz                          |
| Channel Number                      | : 30 channels                                    |
| Frequency of Each Channel (Handset) | : 2470.2MHz + 0.3k MHz k=0~29                    |
| Frequency of Each Channel (Base)    | : 2400.3MHz + 0.3k MHz k=0~29                    |
| Type of Modulation                  | : FM                                             |
| Power Supply                        | : 120Vac, 60Hz<br>with adapter (Model: U090020D) |
| Power Cord                          | : N/A                                            |
| Data Cable                          | : RJ-11 unshielded cable 1.8 meter × 1           |
| Sample Received                     | : Aug. 21, 2006                                  |
| Test Date(s)                        | : Aug. 21, 2006 ~ Aug. 26, 2006                  |

A DoC report has been generated for the client.

### 1.2 Additional information about the EUT

The EUT is a 2.4GHz cordless phone; it consists of handset unit and base unit.

The models listed below are identical to model 36587 (EUT).  
Different brand serves as marking strategy.

| Trade Name | Model Number |
|------------|--------------|
| SENTON     | 36582        |
| SENTON     | 36287        |
| SENTON     | 36297        |
| SENTON     | 36282        |
| SENTON     | 36807        |
| SENTON     | 36802        |
| SENTON     | 36170        |
| SENTON     | 36121        |
| SENTON     | 36122        |
| Bell Phone | 36587        |
| Bell Phone | 36582        |
| Bell Phone | 36287        |
| Bell Phone | 36297        |
| Bell Phone | 36282        |
| Bell Phone | 36807        |
| Bell Phone | 36802        |
| Bell Phone | 36170        |
| Bell Phone | 36121        |
| Bell Phone | 36122        |
| American   | UA202xxy     |
| American   | U200xxy      |
| American   | UA201xyz     |
| American   | UA215xxy     |
| American   | UA204xxy     |
| American   | U200xxy      |
| American   | UA201xyz     |

For more detail features, please refer to User's manual as file name "Installation guide.pdf"

### **1.3 Antenna description**

The EUT uses a permanently connected antenna.

Antenna Gain : 0dBi max

Antenna Type : Copper Wire

Connector Type : Soldering antenna

### **1.4 Peripherals equipment**

Dummy Load 600Ω

## **2. Test specifications**

### **2.1 Test standard**

The EUT was performed according to the procedures in FCC Part 15 Subpart C Paragraph 15.249 for non-spread spectrum devices.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

### **2.2 Operation mode**

The EUT was supplied with 120Vac, 60Hz for Base unit and 3.6Vdc Nicd Battery for Handset unit.

During Conducted emission test, it was tested in charging mode.

During radiated emission test, the EUT was operated in continuously transmitting.

The EUT had two Base Units.

Base1: Charger with RF module

Base2: Charger only.

The conducted emission test was tested at each charging mode.

Mode 1: Handset + Base 1

Mode 2: Handset + Base 2

The worst case was found at mode 1.

The final test was executed under test mode with highest emission and recorded in this report individually.

## 2.3 Test equipment

| Equipment         | Brand           | Frequency range | Model No. | Intertek ID No. | Next Cal. Date |
|-------------------|-----------------|-----------------|-----------|-----------------|----------------|
| EMI Test Receiver | Rohde & Schwarz | 9kHz~2.75GHz    | ESCS 30   | EC303           | 04/17/2007     |
| EMI Test Receiver | Rohde & Schwarz | 20Hz~26.5GHz    | ESMI      | EC317           | 08/07/2007     |
| Spectrum Analyzer | Rohde & Schwarz | 9kHz~30GHz      | FSP 30    | EC353           | 07/24/2007     |
| Spectrum Analyzer | Rohde & Schwarz | 20Hz~40GHz      | FSEK 30   | EC365           | 11/01/2006     |
| Horn Antenna      | EMCO            | 1GHz~18GHz      | 3115      | EC338           | 08/16/2007     |
| Horn Antenna      | SCHWARZBECK     | 14GHz~40GHz     | BBHA 9170 | EC351           | 07/08/2007     |
| Bilog Antenna     | SCHWARZBECK     | 25MHz~1.7GHz    | VULB 9160 | EC368           | 05/20/2007     |
| Pre-Amplifier     | MITEQ           | 100MHz~26.5GHz  | 919981    | EC373           | 04/13/2007     |
| Pre-Amplifier     | MITEQ           | 26GHz~40GHz     | 828825    | EC374           | 01/28/2007     |
| Controller        | HDGmbH          | N/A             | HD 100    | EP317-1         | N/A            |
| Antenna Tower     | HDGmbH          | N/A             | MA 240    | EP317-2         | N/A            |
| Turn Table        | HDGmbH          | N/A             | DS 420S   | EP317-3         | N/A            |
| LISN              | Rohde & Schwarz | 9KHz~30MHz      | ESH3-Z5   | EC344           | 01/14/2007     |

Note: The above equipments are within the valid calibration period.

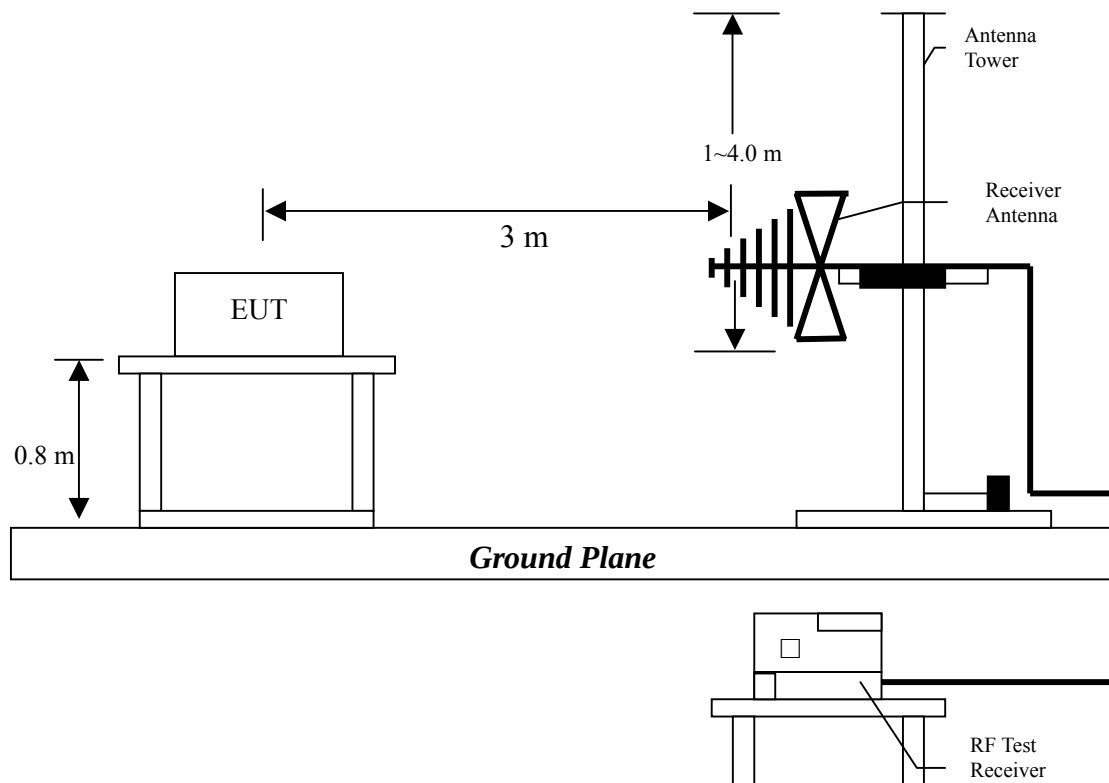
### 3. Radiated emission test FCC 15.249 (C)

#### 3.1 Operating environment

Temperature: 24  
Relative Humidity: 56 %  
Atmospheric Pressure: 1023 hPa

#### 3.2 Test setup & procedure

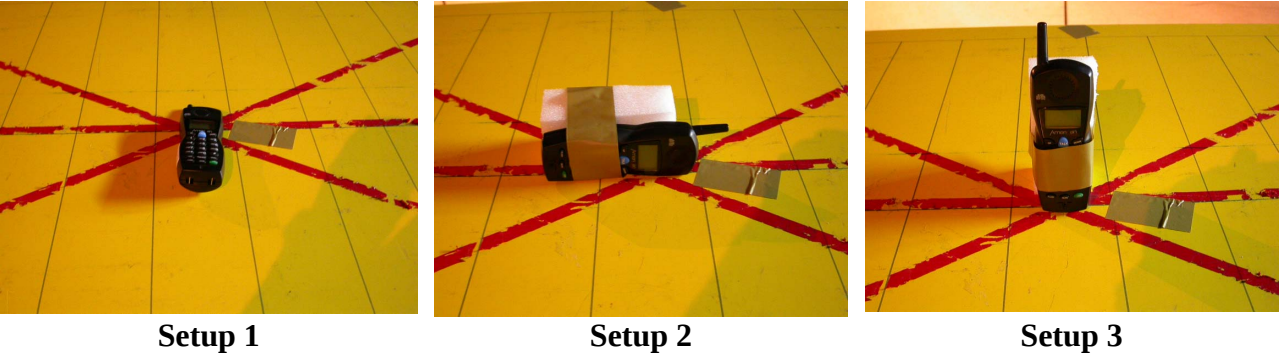
The Diagram below shows the test setup, which is utilized to make these measurements.



The signal is maximized through rotation and placement in the three orthogonal axes. Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1MHz RBW/VBW) recorded also on the report. The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

This test was verified at three orthogonal axes, and the test configuration was listed below:



After verifying three axes, the worst case was occurred at setup 1 for Horizontal and at setup 3 for Vertical configuration. The final test was executed under this configuration and recorded in this report.

The EUT configuration please refer to the “Spurious set-up photo.pdf”.

### 3.3 Emission limit

#### 3.3.1 Fundamental and harmonics emission limits

| Frequency (MHz) | Field Strength of Fundamental |             | Field Strength of Harmonics |             |
|-----------------|-------------------------------|-------------|-----------------------------|-------------|
|                 | (mV/m@3m)                     | (dBuV/m@3m) | (uV/m@3m)                   | (dBuV/m@3m) |
| 2400-2483.5     | 50                            | 94          | 500                         | 54          |

### 3.3.2 General radiated emission limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| Frequency<br>MHz | 15.209 Limits<br>(dB $\mu$ V/m@3m) |
|------------------|------------------------------------|
| 30-88            | 40                                 |
| 88-216           | 43.5                               |
| 216-960          | 46                                 |
| Above 960        | 54                                 |

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Uncertainty was calculated in accordance with NAMAS NIS 81.

Expanded uncertainty (k=2) of radiated emission measurement is  $\pm 4.98$  dB.

### **3.4 Radiated spurious emission test data**

#### **3.4.1 Measurement results: frequencies equal to or less than 1 GHz**

EUT : 36587  
Test Unit : Base  
Worst Case : Tx at low channel

##### **Test Result:**

No Spurious emissions were found above the spectrum analyzer noise floor in the frequency range 30MHz to 1GHz.

EUT : 36587  
Test Unit : Handset  
Worst Case : Tx at high channel

Test Result:

No Spurious emissions were found above the spectrum analyzer noise floor in the frequency range 30MHz to 1GHz.

The noise floor are listed as below:

### 3.5 Measurement results: frequency above 1GHz

EUT : 36587

Test Unit : Handset

Test Condition : Tx at low channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamplifier<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|
| 2470.20            | PK                               | V                            | 0                    | 30.31                          | 34.39             | 64.70                          | 114                        | -49.30         |
| 2470.20            | AV                               | V                            | 0                    | 30.31                          | 28.41             | 58.72                          | 94                         | -35.28         |
| 2470.20            | PK                               | H                            | 0                    | 30.31                          | 35.76             | 66.07                          | 114                        | -47.93         |
| 2470.20            | AV                               | H                            | 0                    | 30.31                          | 32.48             | 62.79                          | 94                         | -31.21         |

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamplifier<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|
| 4800.00            | PK                               | V                            | 36.07                | 37.77                          | 47.4              | 49.10                          | 54                         | -4.90          |
| 4920.00            | PK                               | V                            | 36.07                | 37.77                          | 47.32             | 49.02                          | 54                         | -4.98          |
| 4920.00            | PK                               | H                            | 36.07                | 37.77                          | 44.16             | 45.86                          | 54                         | -8.14          |

Remark:

1. Corrected Level = Reading Level + Correction Factor - Preamp
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36587  
Test Unit : Handset  
Test Condition : Tx at high channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|
| 2478.90            | PK                               | V                            | 0              | 30.31                          | 32.89             | 63.20                          | 114                        | -50.80         |
| 2478.90            | AV                               | V                            | 0              | 30.31                          | 26.56             | 56.87                          | 94                         | -37.13         |
| 2478.90            | PK                               | H                            | 0              | 30.31                          | 34.78             | 65.09                          | 114                        | -48.91         |
| 2478.90            | AV                               | H                            | 0              | 30.31                          | 30.43             | 60.74                          | 94                         | -33.26         |

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|
| 4800.00            | PK                               | V                            | 36.07          | 37.77                          | 47.76             | 49.46                          | 54                         | -4.54          |
| 4920.00            | PK                               | V                            | 36.07          | 37.77                          | 48.45             | 50.15                          | 54                         | -3.85          |
| 4800.00            | PK                               | H                            | 36.07          | 37.77                          | 43.34             | 45.04                          | 54                         | -8.96          |
| 4950.00            | PK                               | H                            | 36.07          | 37.77                          | 42.95             | 44.65                          | 54                         | -9.35          |

Remark:

1. Corrected Level = Reading Level + Correction Factor - Preamp
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36587

Test Unit : Base

Test Condition : Tx at low channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|
| 2400.30            | PK                               | V                            | 0              | 30.31                          | 48.92             | 79.23                          | 114                        | -34.77         |
| 2400.30            | AV                               | V                            | 0              | 30.31                          | 48.53             | 78.84                          | 94                         | -15.16         |
| 2400.30            | PK                               | H                            | 0              | 30.31                          | 49.8              | 80.11                          | 114                        | -33.89         |
| 2400.30            | AV                               | H                            | 0              | 30.31                          | 49.32             | 79.63                          | 94                         | -14.37         |

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|
| 4800.00            | PK                               | V                            | 36.07          | 37.77                          | 45.69             | 47.39                          | 54                         | -6.61          |
| 4920.00            | PK                               | V                            | 36.07          | 37.77                          | 47.58             | 49.28                          | 54                         | -4.72          |
| 4800.00            | PK                               | H                            | 36.07          | 37.77                          | 42.25             | 43.95                          | 54                         | -10.05         |
| 4920.00            | PK                               | H                            | 36.07          | 37.77                          | 42.38             | 44.08                          | 54                         | -9.92          |

Remark:

1. Corrected Level = Reading Level + Correction Factor - Preamp
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36587

Test Unit : Base

Test Condition : Tx at high channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|
| 2409.00            | PK                               | V                            | 0              | 30.31                          | 54.53             | 84.84                          | 114                        | -29.16         |
| 2409.00            | AV                               | V                            | 0              | 30.31                          | 53.95             | 84.26                          | 94                         | -9.74          |
| 2409.00            | PK                               | H                            | 0              | 30.31                          | 54.69             | 85.00                          | 114                        | -29.00         |
| 2409.00            | AV                               | H                            | 0              | 30.31                          | 54.16             | 84.47                          | 94                         | -9.53          |

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|
| 4800.00            | PK                               | V                            | 36.07          | 37.77                          | 43.78             | 45.48                          | 54                         | -8.52          |
| 4950.00            | PK                               | V                            | 36.07          | 37.77                          | 47.54             | 49.24                          | 54                         | -4.76          |
| 4800.00            | PK                               | H                            | 36.07          | 37.77                          | 42.07             | 43.77                          | 54                         | -10.23         |
| 4950.00            | PK                               | H                            | 36.07          | 37.77                          | 41.66             | 43.36                          | 54                         | -10.64         |

Remark:

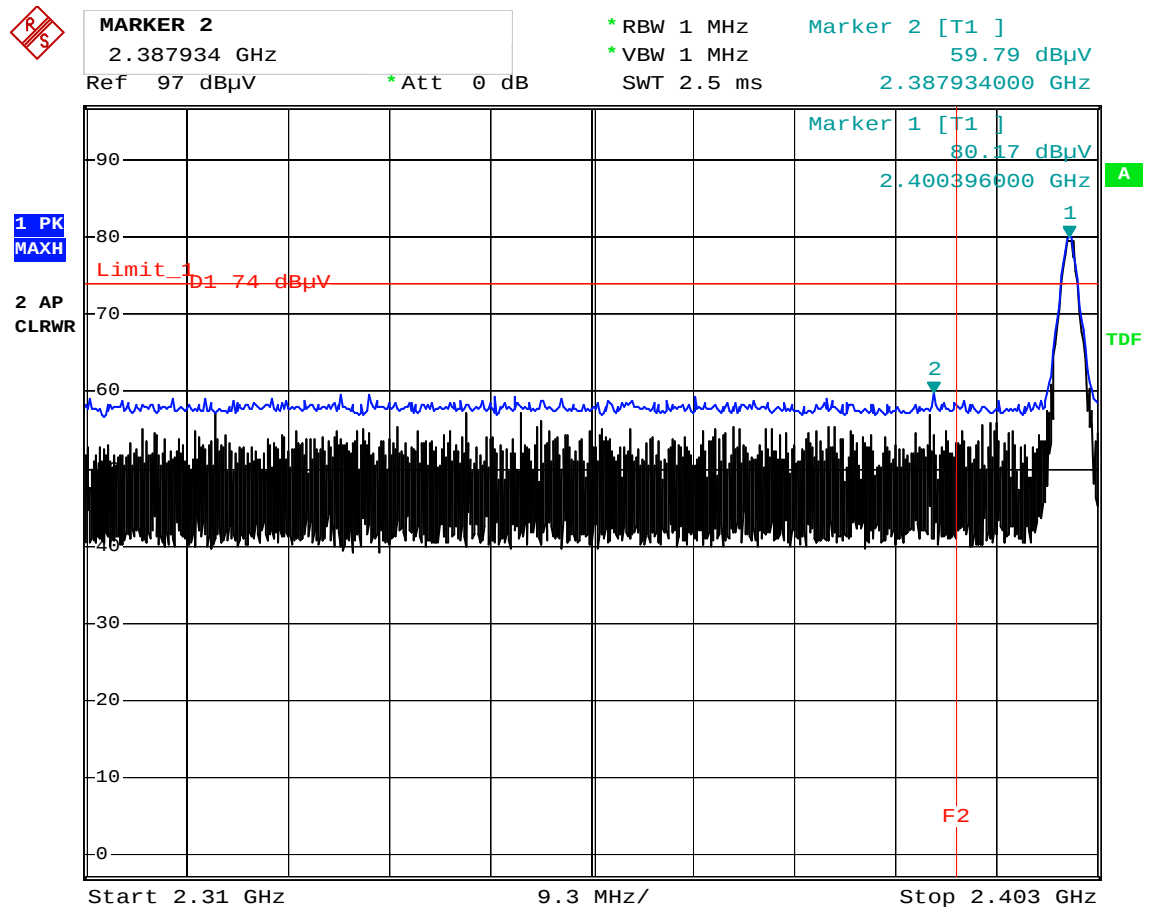
1. Corrected Level = Reading Level + Correction Factor - Preamp
2. Correction Factor = Antenna Factor + Cable Loss

### **3.6 Radiated emission on the band edge FCC 15.249(C)**

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental (Base: 2470.2MHz ~ 2478.9MHz, Handset: 2400.3MHz ~ 2409.0MHz) or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Please see the plot below.

## Test mode: Base Unit

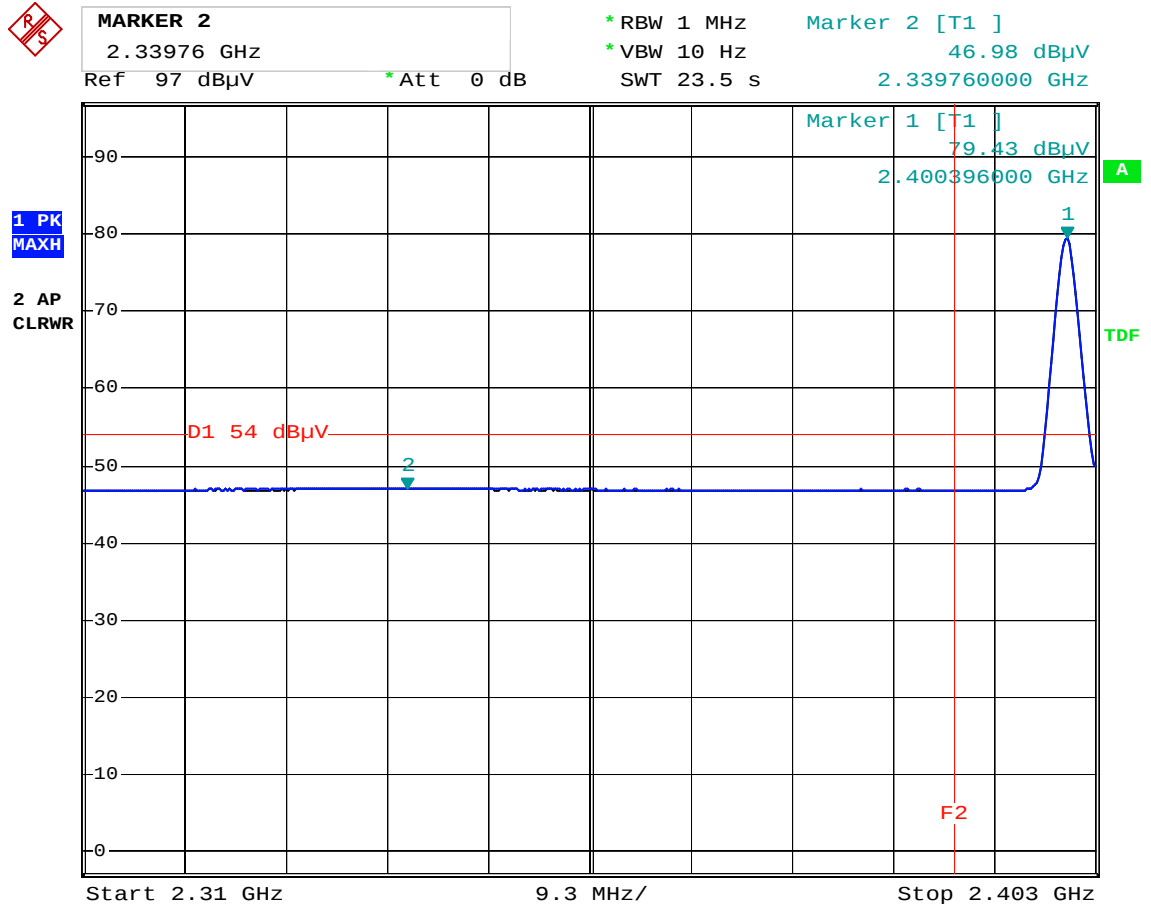


Comment: BS tx low hor

Comment: Band-edge measurement

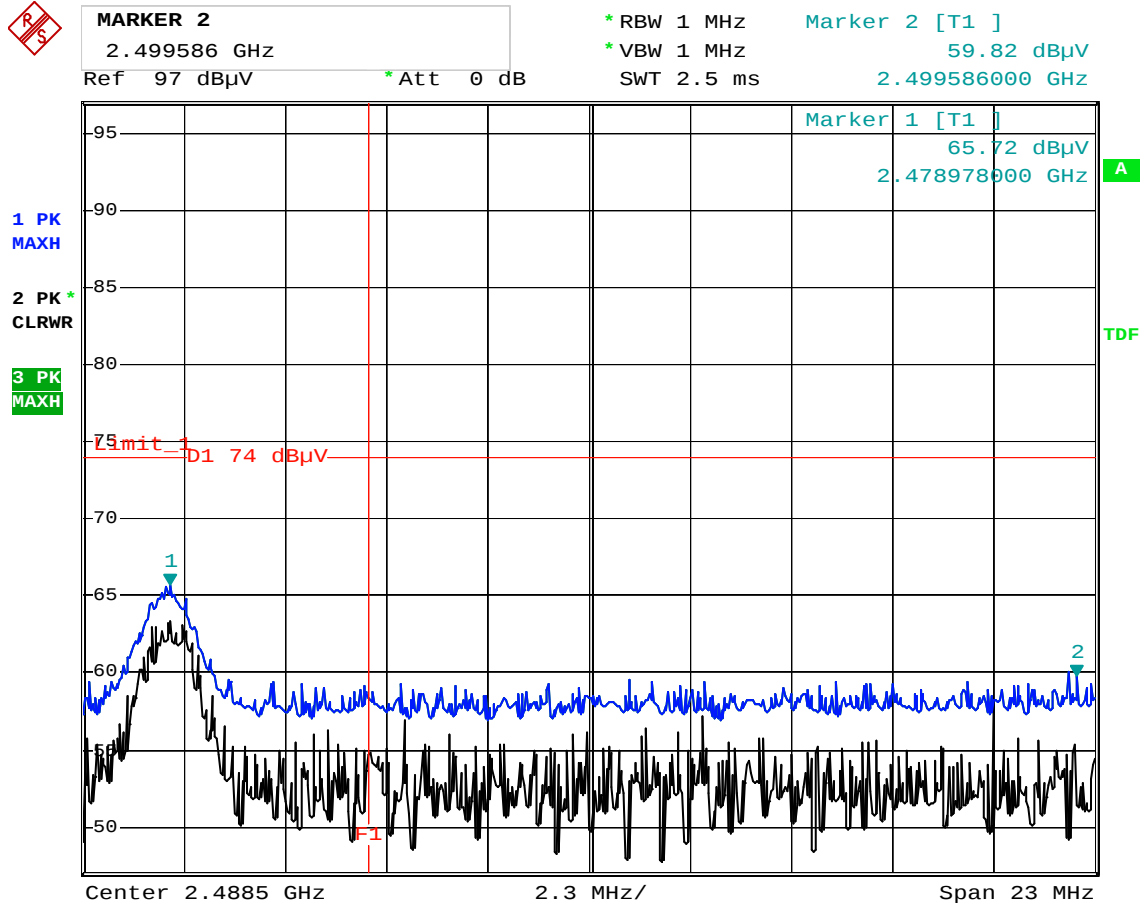
Date: 22.AUG.2006 19:17:37

## Test mode: Base Unit



Comment: BS tx low hor  
 Comment: Band-edge measurement  
 Date: 22.AUG.2006 19:19:27

## Test mode: Handset Unit

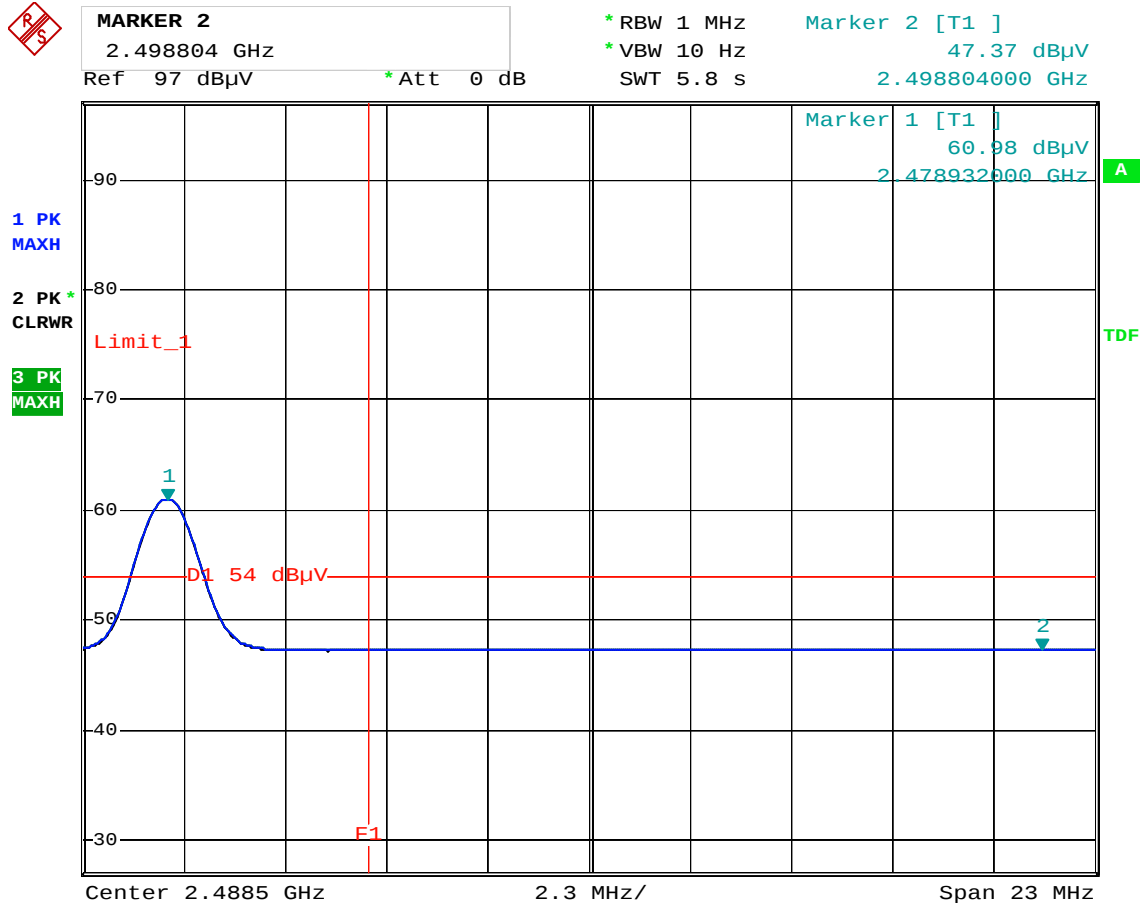


Comment: Band-edge

Comment: HS tx high F2=2483.5MHz

Date: 26.AUG.2006 13:50:46

## Test mode: Handset Unit



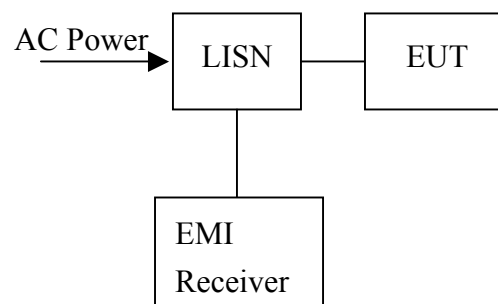
Comment: Band-edge  
Comment: HS tx high F2=2483.5MHz  
Date: 26.AUG.2006 13:52:26

#### 4. Conducted emission test FCC 15.207

##### 4.1 Operating environment

Temperature: 24  
Relative Humidity: 56 %  
Atmospheric Pressure: 1023 hPa

##### 4.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/2003 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

The EUT configuration please refer to the “Conducted set-up photo.pdf”.

**4.3 Emission limit**

| Freq.<br>(MHz) | Conducted Limit (dBuV) |          |
|----------------|------------------------|----------|
|                | Q.P.                   | Ave.     |
| 0.15~0.50      | 66 – 56*               | 56 – 46* |
| 0.50~5.00      | 56                     | 46       |
| 5.00~30.0      | 60                     | 50       |

\*Decreases with the logarithm of the frequency.

**4.4 Uncertainty of Conducted Emission**

Expanded uncertainty (k=2) of conducted emission measurement is  $\pm 2.26$  dB.

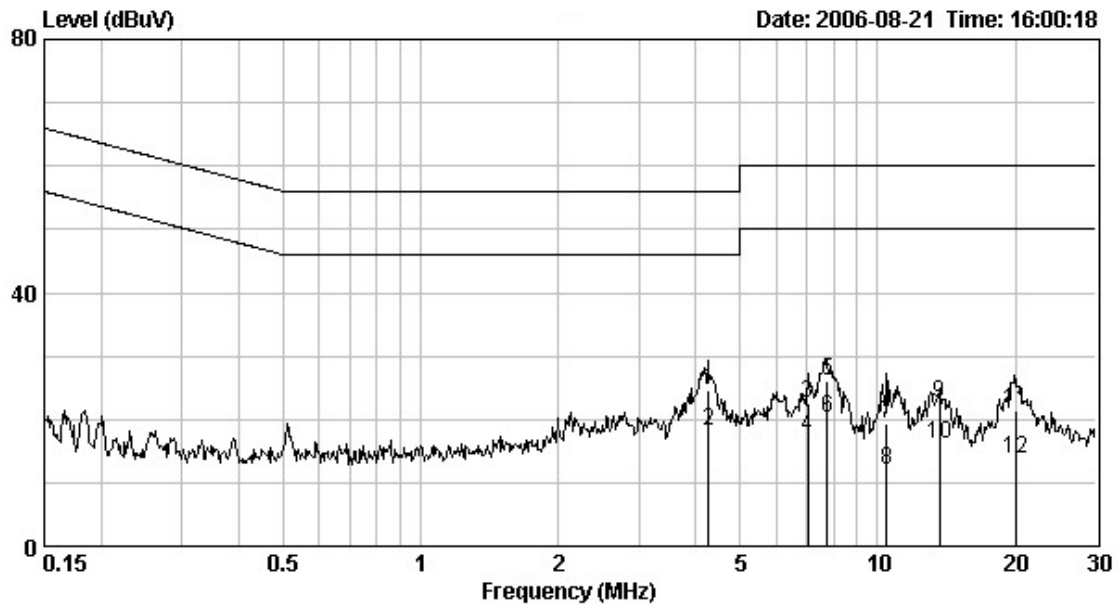
## 4.5 Power Line Conducted Emission test data

Phase : Line  
 EUT : 36587  
 Test Condition : Charger with phone jack

| Frequency<br>(MHz) | Corr.<br>Factor<br>(dB) | Level        | Limit        | Level        | Limit        | Margin |        |
|--------------------|-------------------------|--------------|--------------|--------------|--------------|--------|--------|
|                    |                         | Qp<br>(dBuV) | Qp<br>(dBuV) | AV<br>(dBuV) | Av<br>(dBuV) | Qp     | Av     |
| 4.261              | 0.21                    | 24.49        | 56.00        | 18.05        | 46.00        | -31.51 | -27.95 |
| 7.039              | 0.30                    | 22.49        | 60.00        | 17.25        | 50.00        | -37.51 | -32.75 |
| 7.746              | 0.33                    | 26.08        | 60.00        | 20.28        | 50.00        | -33.93 | -29.73 |
| 10.485             | 0.43                    | 19.32        | 60.00        | 12.08        | 50.00        | -40.68 | -37.92 |
| 13.638             | 0.62                    | 22.53        | 60.00        | 16.25        | 50.00        | -37.47 | -33.75 |
| 19.992             | 0.80                    | 21.34        | 60.00        | 13.78        | 50.00        | -38.66 | -36.22 |

Remark:

1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)



Phase : Neutral  
 EUT : 36587  
 Test Condition : Charger with phone jack

| Frequency<br>(MHz) | Corr.<br>Factor<br>(dB) | Level<br>Qp<br>(dBuV) | Limit<br>Qp<br>(dBuV) | Level<br>AV<br>(dBuV) | Limit<br>Av<br>(dBuV) | Margin<br>(dB) |        |
|--------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|--------|
|                    |                         |                       |                       |                       |                       | Qp             | Av     |
| 4.261              | 0.20                    | 23.42                 | 56.00                 | 17.50                 | 46.00                 | -32.58         | -28.50 |
| 5.955              | 0.20                    | 19.12                 | 60.00                 | 13.17                 | 50.00                 | -40.88         | -36.83 |
| 7.870              | 0.20                    | 24.33                 | 60.00                 | 18.67                 | 50.00                 | -35.67         | -31.33 |
| 10.485             | 0.22                    | 18.44                 | 60.00                 | 10.82                 | 50.00                 | -41.56         | -39.18 |
| 13.001             | 0.32                    | 19.92                 | 60.00                 | 13.33                 | 50.00                 | -40.08         | -36.67 |
| 19.992             | 0.60                    | 22.24                 | 60.00                 | 14.14                 | 50.00                 | -37.76         | -35.86 |

Remark:

1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)

