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FCC TEST REPORT

Under
FCC 15 Subpart C, Paragraph 15.249: 2007

Prepared For :

Innomax Wireless Co., Ltd.

3F, No.344, Sec.1, Dunhua South Road, Da-an District, Taipei City 106, Taiwan (R. O. C.)

| |
|------------------------|
| FCC ID: TSJ-0790330 |
| EUT: Bluetooth Headset |
| Model: B-Speech ISAS |

July 30, 2008

Report Type: Original Report

Test Engineer: Jacky Huang

Test Date: July 25, 2008


Review By: _____

Apollo Liu / Manager

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1. General Information

1. 1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1. 2 Testing Laboratory

SinTek Laboratory Co., Ltd.

No.7, Xinshidai Industrial, Guantian Village, Shiyan Town, Bao'an District, Shenzhen, Guangdong China..

Tel: +86 755 27608353 Fax: +86 755 27608359

Site on File with the Federal Communications Commission – United States

Registration Number: 963441

1. 3 Details of Applicant

| | |
|---------|--|
| Name | : Innomax Wireless Co., Ltd. |
| Address | : 3F, No.344, Sec.1, Dunhua South Road, Da-an District, Taipei City 106, Taiwan (R. O. C.) |
| Contact | : Ms. JoJo Cao |
| Tel | : +886 2-2709-1991 |
| Fax | : N/A |

1. 4 Application Details

| | |
|--------------------------------|-------------------------|
| Date of Receipt of Application | : July 25, 2008 |
| Date of Receipt of Test Item | : July 25, 2008 |
| Date of Test | : July 25~July 29, 2008 |

1. 5 Test Item

| | |
|--------------|---------------------|
| Manufacturer | : Same Applicant |
| Address | : Same Applicant |
| Trade Name | : B-Speech |
| Model No. | : B-Speech ISAS |
| Description | : Bluetooth Headset |

Additional Information

| | |
|--------------------|------------------|
| Frequency | : 2400-2483.5MHZ |
| Number of Channels | : 79 |
| Power Supply | : DC 3.7V |
| Operation Distance | : N/A |
| Resolution | : |

1. 6 Test Standards

FCC 15 Subpart C, Paragraph 15.249: 2007

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2. Technical Test

2. 1 Summary of Test Results

The EUT has been tested according to the following specifications:

| Standard | Test Type | Result | Notes |
|---|-------------------------------|--------|-----------|
| FCC Part 15, Paragraph 15.203 | Antenna Requirement | PASS | Complies |
| FCC Part 15, Paragraph 15.207 | Conducted Test | N/A | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(a) and 15.249(b) Limit | Field Strength of Fundamental | PASS | Complies |
| FCC Part 15, Paragraph 15.209 | Radiated Test | PASS | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(d) Limit | Measured Band Edges | PASS | Complies. |

3. EUT Modifications

No modification by test lab.

4. Conducted Power Line Test

4. 1 Test Equipment

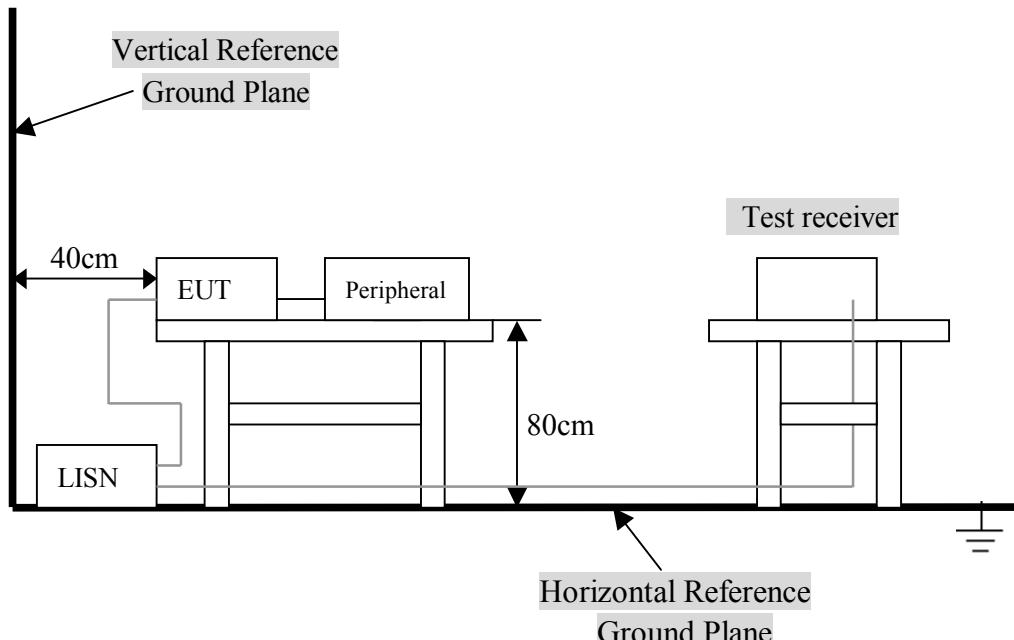
Please refer to Section 10 this report.

4. 2 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). 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 of A.C. 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. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

4. 3 Test Setup



For the actual test configuration, Please refer to the related items – Photos of Testing.

4.4 Configuration of the EUT

The EUT was configured according to ANSI C63.4-2003. EUT was used DC3.7V. The operation frequency is from 2400MHz~2483.5MHz. Enable the signal transmitted from the external antenna from EUT to receiver. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

Note:

- 1) Below 1GHz, the channel low, middle, high were pre-tested, The channel low, worst case one, was chosen for conducted and radiated emission test.
- 2) Above 1GHz, the channel low, middle, high were tested individually.

A. EUT

| Device | Manufacturer | Model # | FCC ID |
|-------------------|----------------------------|---------------|-------------|
| Bluetooth Headset | Innomax Wireless Co., Ltd. | B-Speech ISAS | TSJ-0790330 |

B. Internal Devices

| Device | Manufacturer | Model # | FCC ID |
|--------|--------------|---------|--------|
| N/A | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

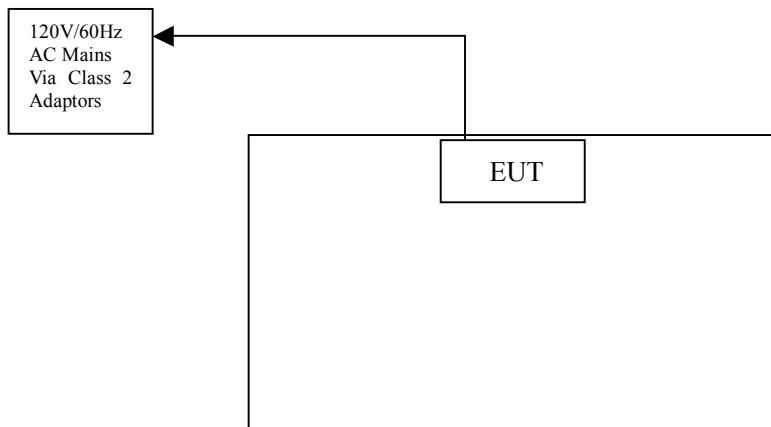
C. Peripherals

| Device | Manufacturer | Model # Serial # | FCC ID/ DoC | Cable |
|----------|--------------|---------------------|----------------|---|
| Printer | HP | HP930C | DoC | 1.5m unshielded power cord 1.2m unshielded data cable. |
| Modem | GVC | N/A | DoC | 1.5m unshielded power cord 1.2m unshielded data cable. |
| Notebook | DELL | PP10L | DoC | 1.5m unshielded power cord |
| PC | Dell | 2400n | DoC | 1.5m unshielded power cord |

4. 5 EUT Operating Condition

Operating condition is according to ANSI C63.4 - 2003.

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- C. Modulate output capacity of EUT up to specification.



4. 6 Conducted Power Line Emission Limits

| FCC Part 15 Paragraph 15.207 (dBuV) | | |
|-------------------------------------|---------------|---------------|
| Frequency Range (MHz) | Class A QP/AV | Class B QP/AV |
| 0.15 – 0.5 | 79/66 | 66-56/56-46 |
| 0.5 – 5.0 | 73/60 | 56/46 |
| 5.0 - 30 | 73/60 | 60/50 |

NOTE : In the above table, the tighter limit applies at the band edges.

4. 7 Conducted Power Line Test Result

Owing to the DC operation of EUT, this test item is not performed.

5. Radiated Emission Test

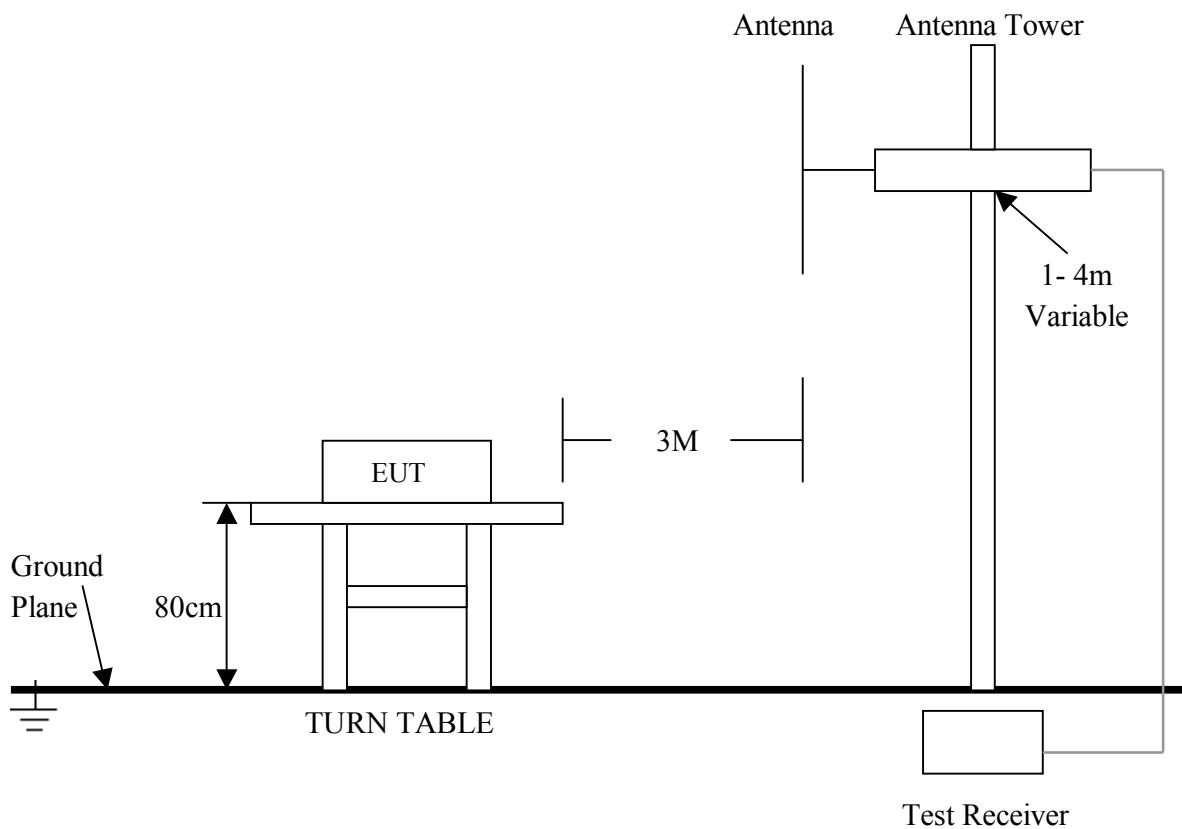
5. 1 Test Equipment

Please refer to Section 10 this report.

5. 2 Test Procedure

1. The EUT was tested according to ANSI C63.4 - 2003.
2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
3. The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
4. The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
5. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
6. The antenna polarization: Vertical polarization and Horizontal polarization.

5. 3 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing.

5. 4 Configuration of the EUT

Same as section 4.4 of this report

5. 5 EUT Operating Condition

Same as section 4.5 of this report.

5. 6 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below :

A. FCC Part 15 Subpart C Paragraph 15.249(a) Limit

| Fundamental Frequency (MHz) | Field Strength of Fundamental (3m) | | | Field Strength of Harmonics (3m) | | |
|-----------------------------|------------------------------------|-------------|-----------|----------------------------------|-------------|----------|
| | mV/m | dBuV/m | | uV/m | dBuV/m | |
| 902~928 | 50 | 94(Average) | 114(Peak) | 500 | 54(Average) | 74(Peak) |
| 2400~2483.5 | 50 | 94(Average) | 114(Peak) | 500 | 54(Average) | 74(Peak) |

Note:

- (1) RF Voltage (dBuV) = $20 \log_{10}$ RF Voltage (uV)
- (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.
- (3) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

| Frequency (MHz) | Distance (m) | Field Strength (dBuV/m) |
|-----------------|--------------|-------------------------|
| 30 - 88 | 3 | 40.0 |
| 88 - 216 | 3 | 43.5 |
| 216 - 960 | 3 | 46.0 |
| ABOVE 960 | 3 | 54.0 |

Note:

- (1) RF Voltage (dBuV) = $20 \log_{10}$ RF Voltage (uV)
- (2) In the Above Table, the tighter limit applies at the band edges.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

5. 7 Radiated Emission Test Result

A. Fundamental Radiated Emission Data

| | | | |
|--------------|--------------------------------------|-------------|--------------------|
| Product | : Bluetooth Headset | Test Mode | : CH Low ~ CH High |
| Test Item | : Fundamental Radiated Emission Data | Temperature | : 25 °C |
| Test Voltage | : DC 3.7V (Power by Battery) | Humidity | : 56%RH |
| Test Result | : PASS | | |

CH Low

| Freq. (GHz) | Emission (dBuV/m) Peak / Average | HORIZ / VERT | Limits (dBuV/m) Peak / Average | Margin (dB) Peak / Average |
|-------------|-------------------------------------|--------------|-----------------------------------|-------------------------------|
| 2402.00 | 85.01 75.96 | HORIZ | 114.00 94.00 | -28.99 -18.04 |
| 2402.00 | 76.44 67.96 | VERT | 114.00 94.00 | -37.56 -26.04 |

CH Mid

| Freq. (GHz) | Emission (dBuV/m) Peak / Average | HORIZ / VERT | Limits (dBuV/m) Peak / Average | Margin (dB) Peak / Average |
|-------------|-------------------------------------|--------------|-----------------------------------|-------------------------------|
| 2441.00 | 83.48 74.09 | HORIZ | 114.00 94.00 | -30.52 -19.91 |
| 2441.00 | 75.83 8.72 | VERT | 114.00 94.00 | -38.17 -85.28 |

CH High

| Freq. (GHz) | Emission (dBuV/m) Peak / Average | HORIZ / VERT | Limits (dBuV/m) Peak / Average | Margin (dB) Peak / Average |
|-------------|-------------------------------------|--------------|-----------------------------------|-------------------------------|
| 2480.00 | 84.12 75.27 | HORIZ | 114.00 94.00 | -29.88 -18.73 |
| 2480.00 | 76.59 69.33 | VERT | 114.00 94.00 | -37.41 -24.67 |

Note:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

B. Harmonics Radiated Emission Data

| | | | |
|--------------|--------------------------------------|-------------|--------------------|
| Product | : Bluetooth Headset | Test Mode | : CH Low ~ CH High |
| Test Item | : Fundamental Radiated Emission Data | Temperature | : 25 °C |
| Test Voltage | : DC 3.7V(Power by battery) | Humidity | : 56%RH |
| Test Result | : PASS | | |

CH Low

| Freq. (MHz) | Emission (dBuV/m) Peak Detector | HORIZ / VERT | Limits (dBuV/m) Peak / Average | Margin (dB) |
|-------------|------------------------------------|--------------|-----------------------------------|-------------|
| 4804.00 | 49.12 | HORZ | 74.0 / 54.0 | -24.88 |
| 4804.00 | 48.71 | VERT | 74.0 / 54.0 | -25.29 |
| 7206.00 | 48.56 | HORZ | 74.0 / 54.0 | -25.44 |
| 7206.00 | 46.22 | VERT | 74.0 / 54.0 | -27.78 |
| 24020.00 | 48.59 | HORZ | 74.0 / 54.0 | -25.41 |
| 24020.00 | 46.72 | HORZ | 74.0 / 54.0 | -27.28 |

CH Mid

| Freq. (MHz) | Emission (dBuV/m) Peak Detector | HORIZ / VERT | Limits (dBuV/m) Peak / Average | Margin (dB) |
|-------------|------------------------------------|--------------|-----------------------------------|-------------|
| 4882.00 | 48.93 | HORZ | 74.0 / 54.0 | -25.07 |
| 4882.00 | 46.28 | VERT | 74.0 / 54.0 | -27.72 |
| 7323.00 | 49.04 | HORZ | 74.0 / 54.0 | -24.96 |
| 7323.00 | 47.28 | VERT | 74.0 / 54.0 | -26.72 |
| 24410.00 | 49.76 | HORZ | 74.0 / 54.0 | -24.24 |
| 24410.00 | 46.23 | HORZ | 74.0 / 54.0 | -27.77 |

CH High

| Freq. (MHz) | Emission (dBuV/m) Peak Detector | HORIZ / VERT | Limits (dBuV/m) Peak / Average | Margin (dB) |
|----------------|------------------------------------|-----------------|-----------------------------------|----------------|
| 4960.00 | 49.01 | HORZ | 74.0 / 54.0 | -24.99 |
| 4960.00 | 48.12 | VERT | 74.0 / 54.0 | -25.88 |
| 7440.00 | 48.35 | HORZ | 74.0 / 54.0 | -25.65 |
| 7440.00 | 47.44 | VERT | 74.0 / 54.0 | -26.56 |
| 24800.00 | 48.94 | HORZ | 74.0 / 54.0 | -25.06 |
| 24800.00 | 46.25 | VERT | 74.0 / 54.0 | -27.75 |

Note:

- (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3) Receiver setting (Peak Detector) : RBW=1MHz; VBW=1MHz; Span=100MHz
- (4) Receiver setting (AVG Detector): RBW=1MHz; VBW=30Hz; Span=20MHz
- (5) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

C. General Radiated Emission Data

| | | | |
|--------------|--------------------------------------|-------------|----------|
| Product | : Bluetooth Headset | Test Mode | : CH Low |
| Test Item | : Fundamental Radiated Emission Data | Temperature | : 25 °C |
| Test Voltage | : DC 3.7V(Power by battery) | Humidity | : 56%RH |
| Test Result | : PASS | | |

| Freq. (MHz) | Emission (dBuV/m) QP Detector | HORIZ / VERT | Limits (dBuV/m) | Margin (dB) |
|----------------|----------------------------------|-----------------|--------------------|----------------|
| 60.04 | 29.83 | HORZ | 40.0 | -10.17 |
| 84.08 | 30.01 | VERT | 40.0 | -9.99 |
| 126.04 | 29.16 | HORZ | 43.5 | -14.34 |
| 172.08 | 32.93 | VERT | 43.5 | -10.57 |
| 244.04 | 31.28 | HORZ | 46.0 | -14.72 |
| 288.24 | 34.03 | VERT | 46.0 | -11.97 |

Note:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.

6. Band Edge

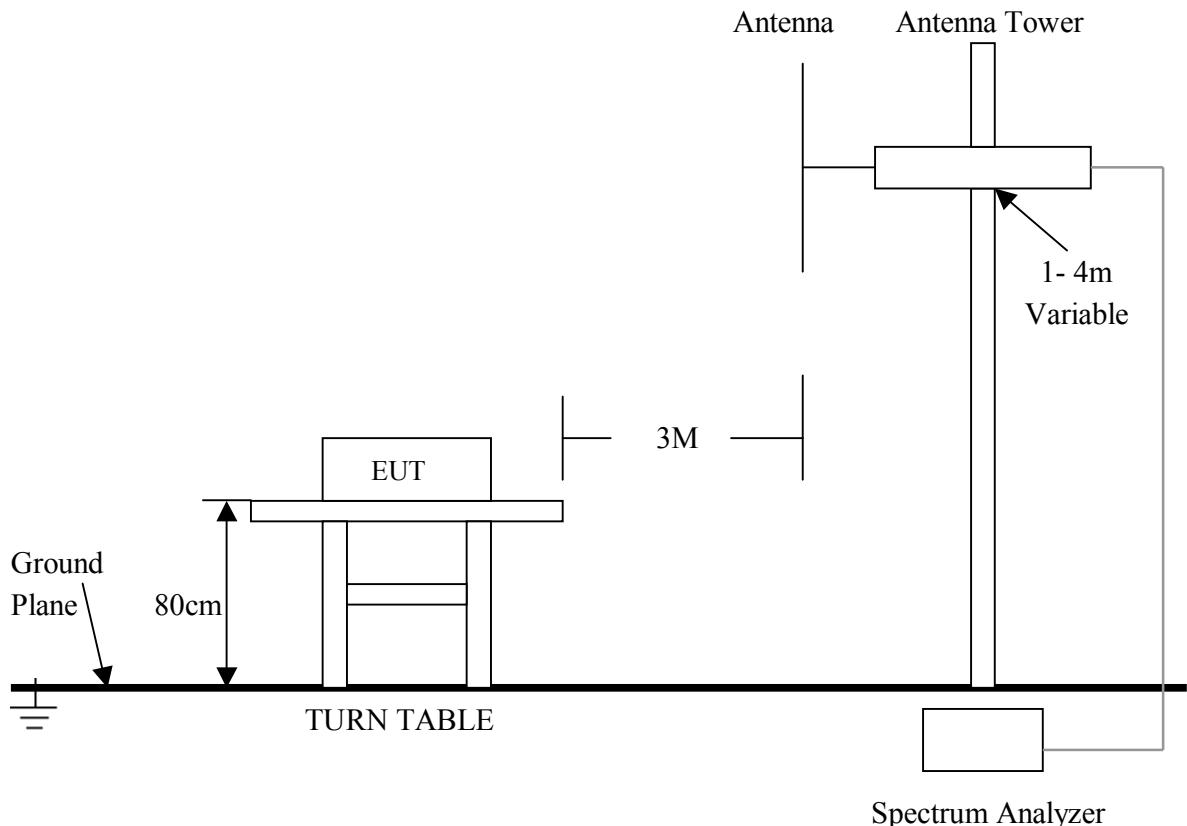
6. 1 Test Equipment

Please refer to Section 10 this report.

6. 2 Test Procedure

1. The EUT was tested according to ANSI C63.4 - 2003.
2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.

6. 3 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

6. 4 Configuration of The EUT

Same as section 4 . 4 of this report

6. 5 EUT Operating Condition

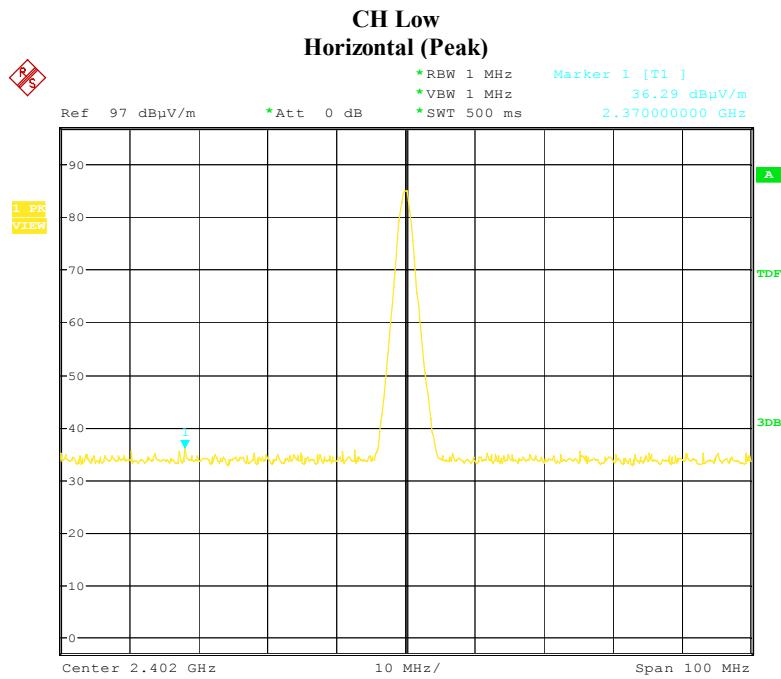
Same as section 4 . 5 of this report.

6. 6 Band Edge FCC 15.249(d) Limit

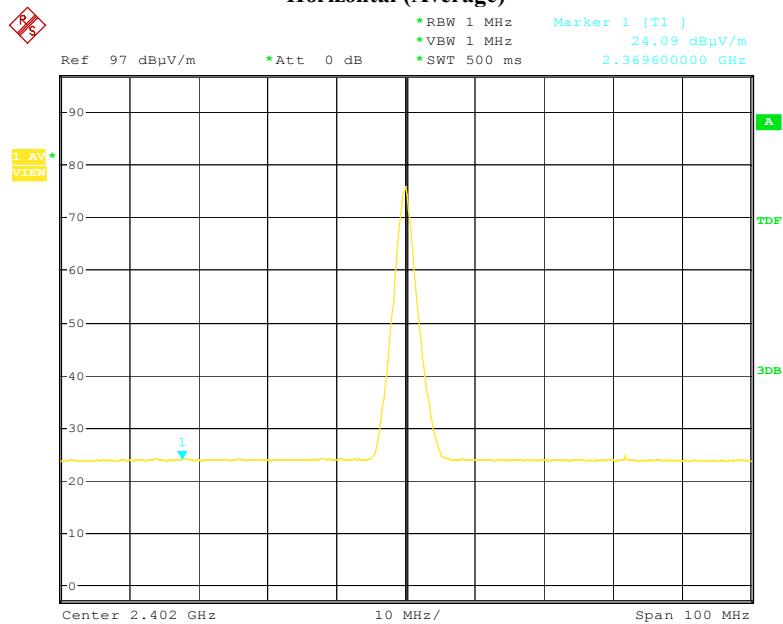
In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 50dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6. 7 Band Edge Test Result

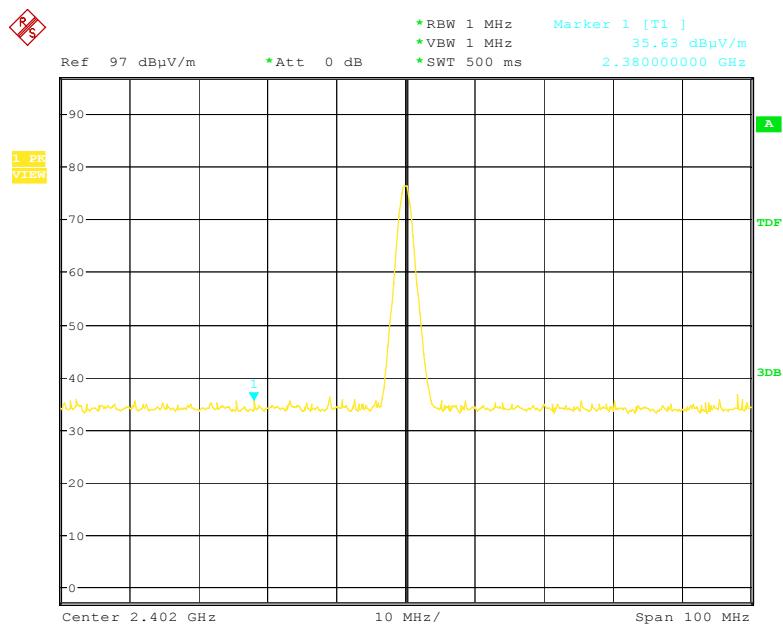
| | | | |
|--------------|------------------------------|-------------|--------------------|
| Product | : Bluetooth Headset | Test Mode | : CH Low ~ CH High |
| Test Item | : Band Edge Data | Temperature | : 25 °C |
| Test Voltage | : DC 3.7V (Power by battery) | Humidity | : 56%RH |
| Test Result | : PASS | | |



Date: 28.JUL.2008 15:43:59

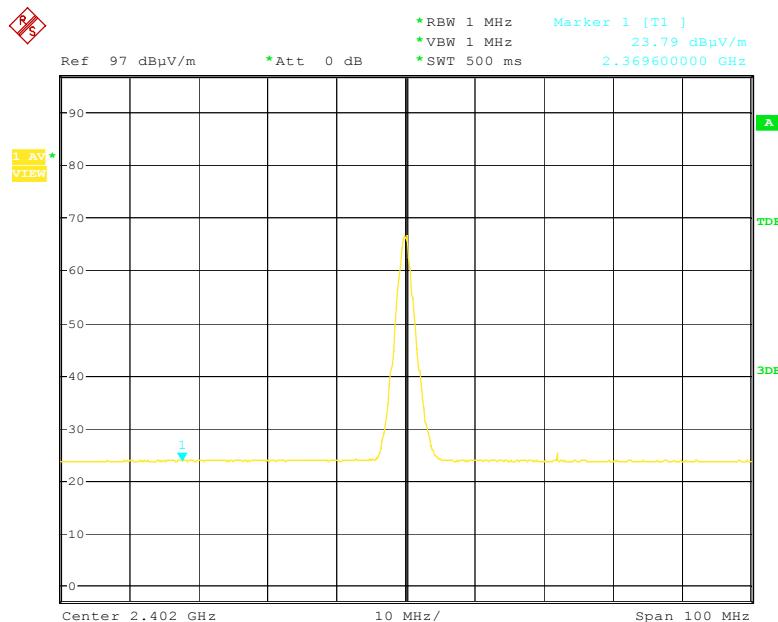
Horizontal (Average)

Date: 28.JUL.2008 15:44:52

Vertical (Peak)

Date: 28.JUL.2008 15:46:39

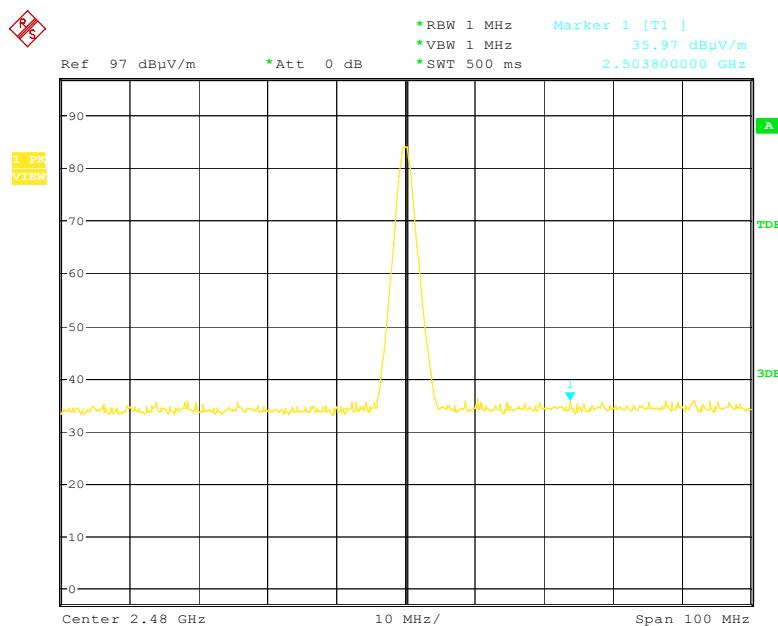
Vertical (Average)



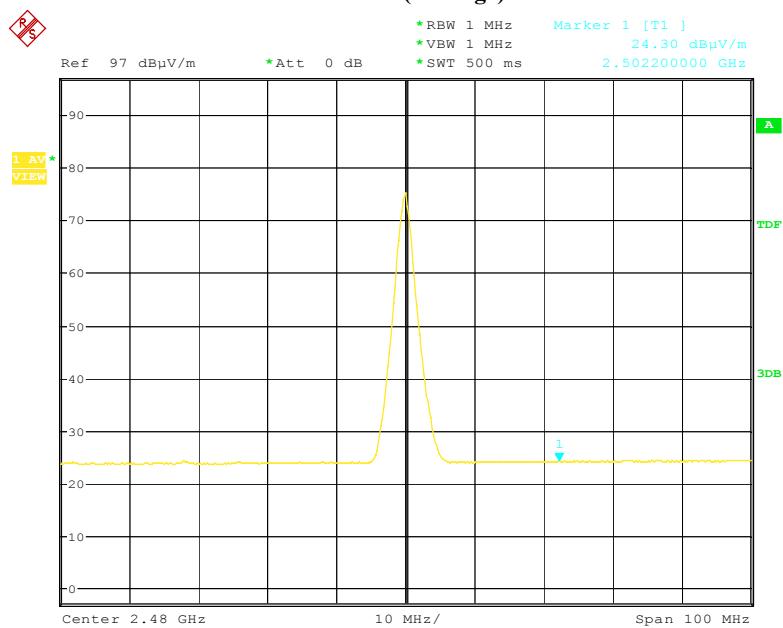
Date: 28.JUL.2008 15:47:22

Note:

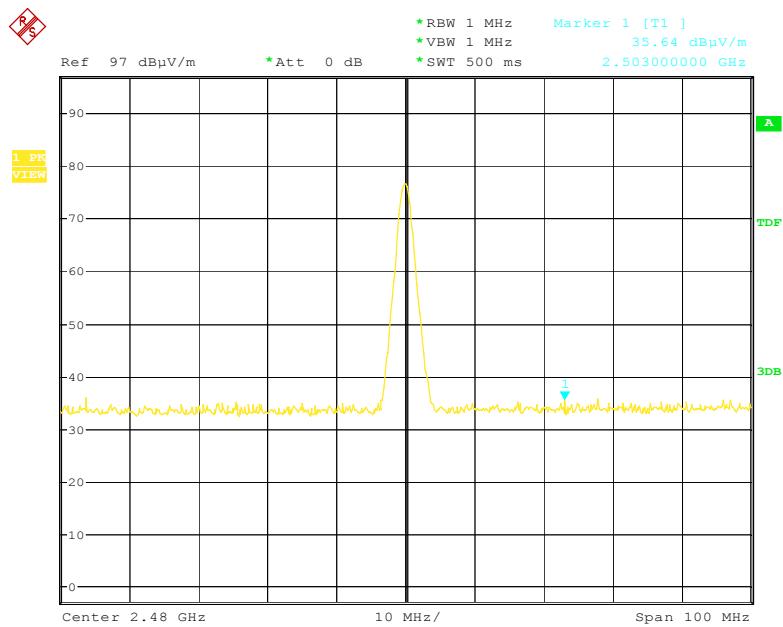
- (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
- (2) The average measurement was not performed when the peak measured data under the limit of average detection.

CH High
Horizontal (Peak)

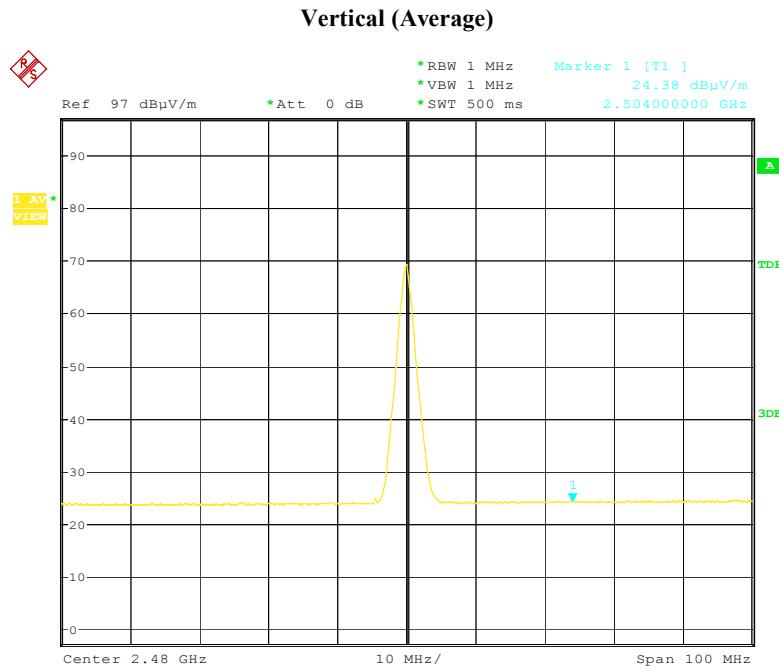
Date: 28.JUL.2008 15:53:41

Horizontal (Average)

Date: 28.JUL.2008 15:55:38

Vertical (Peak)

Date: 28.JUL.2008 15:51:58



Date: 28.JUL.2008 15:49:22

Note:

- (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
- (2) The average measurement was not performed when the peak measured data under the limit of average detection.

7. Antenna Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The EUT no antenna connector for printed antenna. Therefore the EUT complies with Section 15.203 of the FCC rules.

8. Photos of Testing

8. 1 EUT Test Photographs

Radiated emission test view



8.2 EUT Detailed Photographs

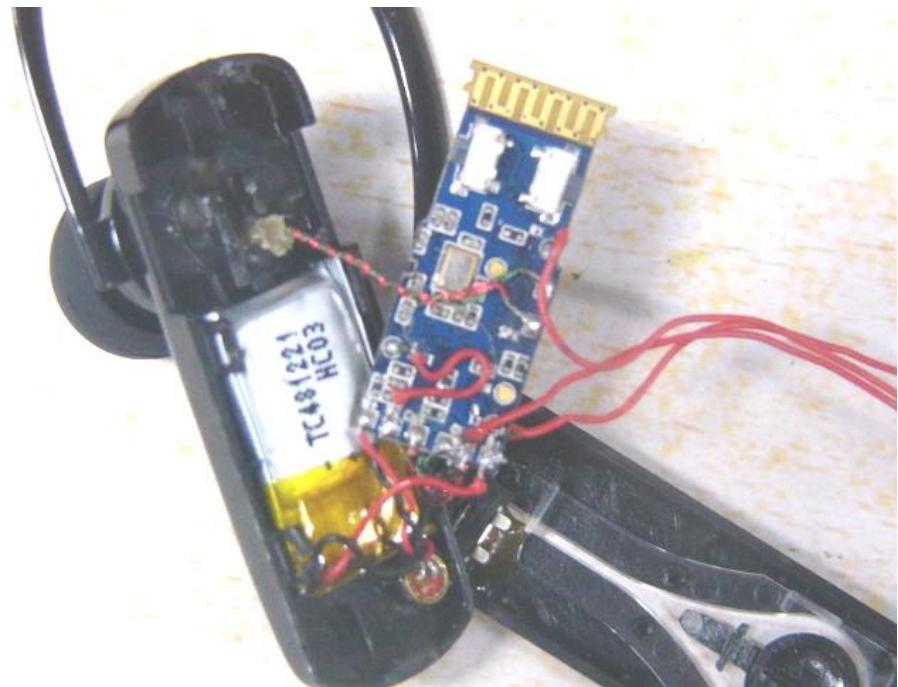
EUT top view



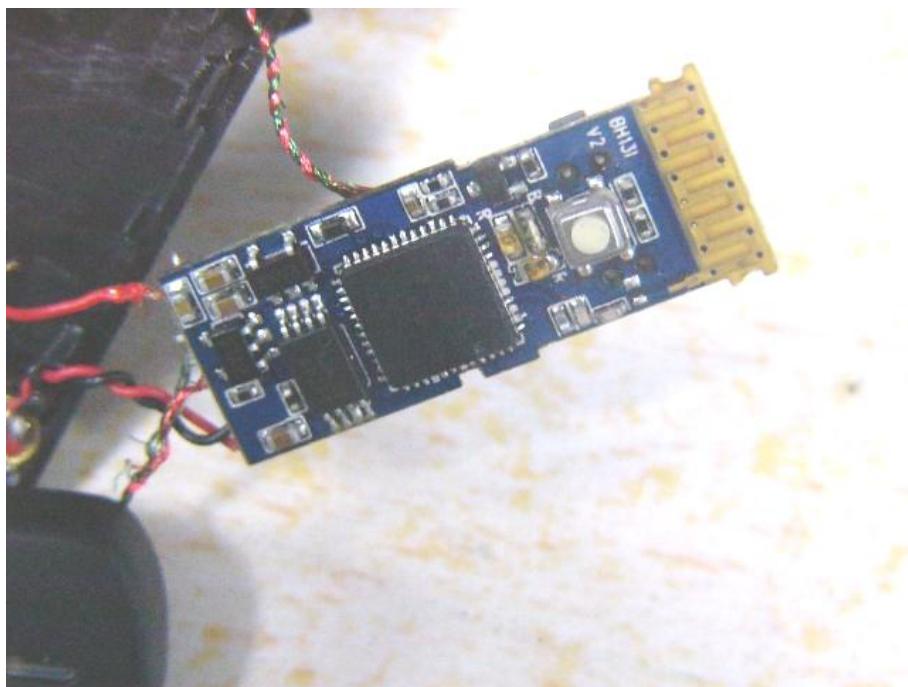
EUT bottom view



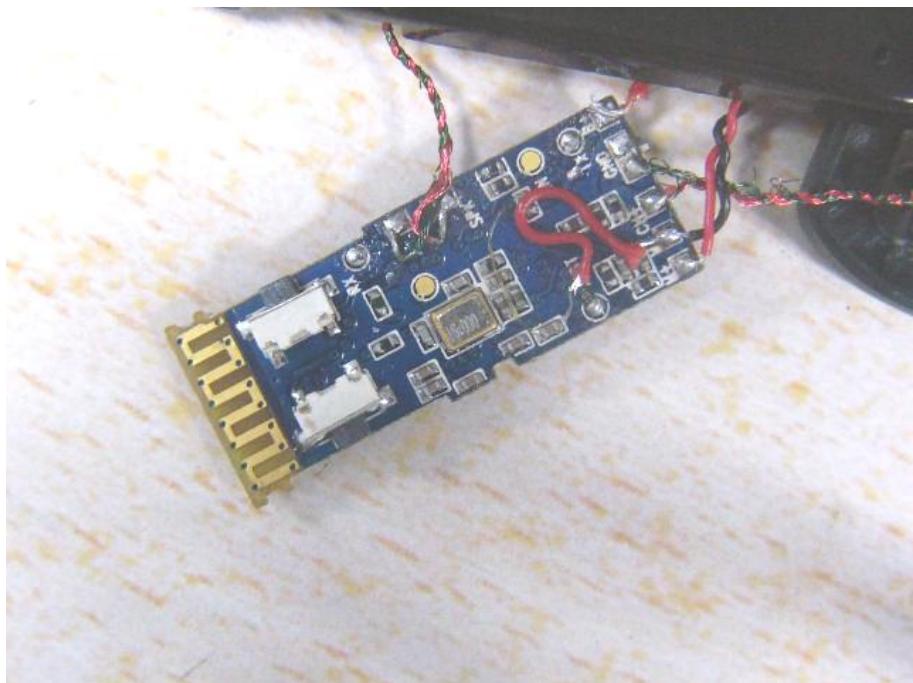
EUT inside whole view



Main board component side



Main board solder side



9. FCC ID Label

FCC ID: TSJ-0790330

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper label. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT

EUT Bottom View/Proposed FCC ID Label Location



10. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

| Equipment/ Facilities | Manufacturer | Model # | Serial No. | Date of Cal. | Due Date |
|---------------------------------|-------------------|------------|------------|---------------|---------------|
| Turntable | SinTek | N/A | N/A | NCR | NCR |
| Antenna Tower | SinTek | N/A | N/A | NCR | NCR |
| OATS | SinTek | N/A | N/A | Oct. 9, 2007 | Oct. 9, 2010 |
| EMI Test Receiver | Rohde & Schwarz | ESPI7 | 100013 | July 9, 2008 | July 9, 2009 |
| Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100273 | Sep.18, 2007 | Sep.18, 2008 |
| Signal Generator | FLUKE | PM5418+Y/C | LO747012 | Feb.10, 2008 | Feb.10, 2009 |
| Signal Generator | FLUKE | PM5418TX | LO738007 | Feb.10, 2008 | Feb.10, 2009 |
| Loop Antenna | SCHWARZBECK | FMZB1516 | 113 | Jan. 30, 2008 | Jan. 30, 2009 |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 872096/16 | Jan. 30, 2008 | Jan. 30, 2009 |
| Trilog-Super Broadband Antenna | SCHWARZBECK | VULB9161 | 9161-4079 | Sep.18, 2007 | Sep.18, 2008 |
| Trilog-Super Broadband Antenna | SCHWARZBECK | VULB9161 | 9161-4080 | Sep.18, 2007 | Sep.18, 2008 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-564 | Sep.18, 2007 | Sep.18, 2008 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-565 | Sep.18, 2007 | Sep.18, 2008 |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100196 | Oct. 23, 2007 | Oct. 23, 2008 |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100197 | Oct. 23, 2007 | Oct. 23, 2008 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | N/A | N/A | N/A |
| Absorbing Clamp | Rohde & Schwarz | MDS-21 | N/A | Oct. 29, 2007 | Oct. 29, 2008 |
| KMO Shielded Room | KMO | KMO-001 | N/A | N/A | N/A |
| Coaxial Cable with N-Connectors | SCHWARZBECK | AK9515H | 95549 | Sep.18, 2007 | Sep.18, 2008 |
| Power Meter | Rohde & Schwarz | NRVD | 100041 | Feb.10, 2008 | Feb.10, 2009 |
| Radio Communication Test Set | Rohde & Schwarz | CMS 54 | 846621/024 | Feb.10, 2008 | Feb.10, 2009 |
| Modulation Analyzer | Hewlett-Packard | 8901B | 2303A00362 | Feb.10, 2008 | Feb.10, 2009 |
| Communication Analyzer | Wavetek Stabilock | 4032 | N/A | Feb. 01, 2008 | Feb.01, 2009 |
| Storage Oscilloscope | Tektronix | TDS3052 | N/A | Feb. 01, 2008 | Feb.01, 2009 |
| Attenuator | Schwarzbeck | 20dB | N/A | Feb. 01, 2008 | Feb.01, 2009 |
| Attenuator | Rohde & Schwarz | 10dB | N/A | Feb. 01, 2008 | Feb.01, 2009 |
| SOHO Telephone Switching System | IKE | 2000-108C | N/A | Feb.10, 2008 | Feb.10, 2009 |
| Temperature Chamber | TABAI | PSL-4GTW | N/A | Feb.10, 2008 | Feb.10, 2009 |