# Test Report

| | |
|---|---|
| Product Name | ErgoMedia 823 Laser |
| Model No. | GK-070007/T |
| FCC ID | FSUGMZI2 |

| | |
|---|---|
| Applicant | KYE SYSTEMS CORP. (Genius) |
| Address | No. 492, Sec. 5, Chung Hsin Rd., San Chung, Taipei Hsien, 24160, Taiwan, R. O. C. |

| | |
|---|---|
| Date of Receipt | July 18, 2007 |
| Issued Date | Aug. 07, 2007 |
| Report No. | 077259R-RFUSP07V01 |

# Test Report Certification

Issued Date: Aug. 07, 2007
Report No.: 077259R-RFUSP07V01

| | |
|---|---|
| Product Name | ErgoMedia 823 Laser |
| Applicant | KYE SYSTEMS CORP. (Genius) |
| Address | No. 492, Sec. 5, Chung Hsin Rd., San Chung, Taipei Hsien, 24160, Taiwan, R. O. C. |
| Manufacturer | KYE SYSTEMS CORP. (Genius) |
| Model No. | GK-070007/T |
| Rated Voltage | AC 120V/60Hz |
| Working Voltage | DC 3V(Power by battery) |
| Trade Name | Genius |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C: 2006<br>ANSI C63.4: 2003<br>NVLAP Lab Code: 200533-0 |
| Test Result | Complied |

Test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.
This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Documented By : Genie chang
( Engineering Adm. Specialist / Genie Chang )

Tested By : Molin huang
( Engineer /Molin Huang )

Approved By : Gene chang
( President / Gene Chang )

0914

# TABLE OF CONTENTS

# 1. GENERAL INFORMATION

## 1.1. EUT Description

| | |
|---|---|
| Product Name | ErgoMedia 823 Laser |
| Trade Name | Genius |
| Model No. | GK-070007/T |
| FCC ID | FSUGMZI2 |
| Frequency Range | 2402~2480MHz |
| Channel Control | Manual |
| Channel Separation | 3MHz |
| Antenna Gain | -3dBi |
| Channel Number | 16 |
| Type of Modulation | GFSK |
| Antenna Type | Soldered on PCB |

Frequency of Each Channel

| Working Frequency of Each Channel | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| Channel 00 | 2402MHz | Channel 01 | 2405MHz | Channel 02 | 2408MHz | Channel 03 | 2411MHz |
| Channel 04 | 2425MHz | Channel 05 | 2428MHz | Channel 06 | 2431MHz | Channel 07 | 2434MHz |
| Channel 08 | 2448MHz | Channel 09 | 2451MHz | Channel 10 | 2454MHz | Channel 11 | 2457MHz |
| Channel 12 | 2471MHz | Channel 13 | 2474MHz | Channel 14 | 2477MHz | Channel 15 | 2480MHz |

Note:

1. The EUT is a ErgoMedia 823 Laser with a built-in 2.4GHz transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
4. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
5. Part 15 Subpart B compliance for spread spectrum devices is shown on the report no. 077259R-RFUSP01V02.
6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

## 1.2. Operational Description

The EUT is 2.4GHz Wireless Mouse built-in 2.4GHz transceiver. The operation frequency is from 2402 MHz to 2480MHz with GFSK modulation. The signal will be transmitted through 2.4 GHz RF signal from the Printed on PCB antenna from EUT to receiver. DC 3V shall be provided for EUT operation.

| | |
|---|---|
| Test Mode | Mode 1: Transmitter |

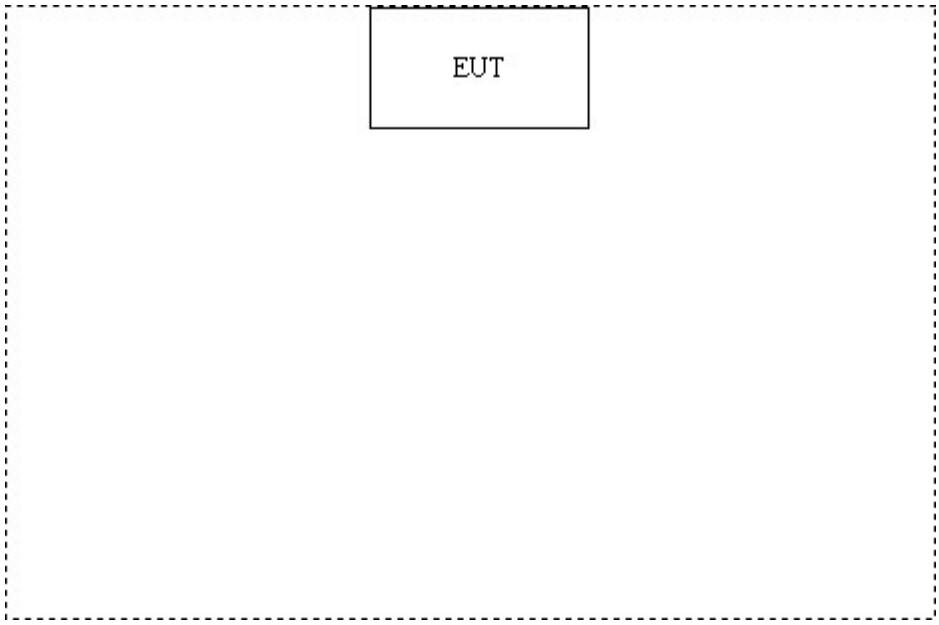
## 1.3. Tested System Datails

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | | Manufacturer | Model No. | Serial No. | Power Cord |
|---|---|---|---|---|---|
| 1 | N/A | N/A | N/A | N/A | N/A |

| Signal Cable Type | | Signal cable Description |
|---|---|---|
| A | N/A | N/A |

## 1.4. Configuration of Test System




## 1.5. EUT Exercise Software

| | |
|---|---|
| 1 | Setup the EUT and display as shown on 1.5. |
| 2 | Turn on the power of all equipment. |
| 3 | The EUT will start to operate. |
| 4 | The EUT will continuously transmit the radio signal. |
| 5 | Repeat the above procedure (3) to (4) |

## 1.6. Test Facility

Ambient conditions in the laboratory:

| Items | Required (IEC 68-1) | Actual |
|---|---|---|
| Temperature (°C) | 15-35 | 20-35 |
| Humidity (%RH) | 25-75 | 50-65 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2

Accreditation on NVLAP
NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation
Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
Lin-Kou Shiang, Taipei,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

0914

FCC Accreditation Number: TW1014

# 2. Radiated Emission

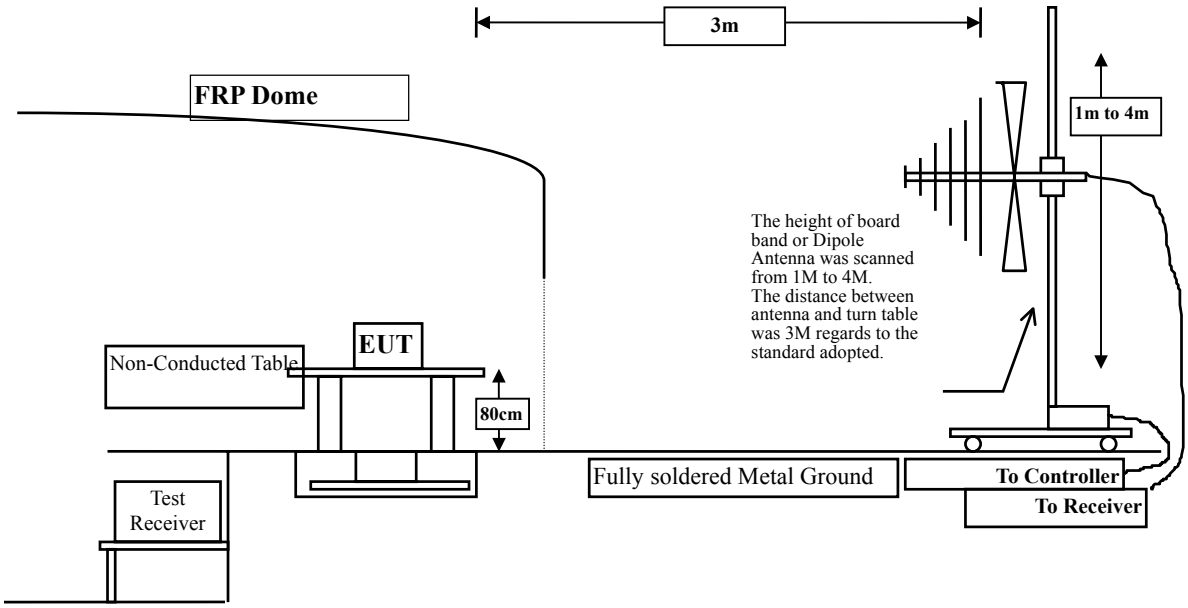
## 2.1. Test Equipment

The following test equipment are used during the radiated emission test:

| Test Site | | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|---|---|---|---|---|
| ☐Site # 1 | | Test Receiver | R & S | ESVS 10 / 834468/003 | May, 2007 |
| | | Spectrum Analyzer | Advantest | R3162/ 00803480 | May, 2007 |
| | | Pre-Amplifier | Advantest | BB525C/ 3307A01812 | May, 2007 |
| | | Bilog Antenna | SCHAFFNER | CBL6112B / 2697 | Sep., 2006 |
| ☐Site # 2 | | Test Receiver | R & S | ESCS 30 / 836858 / 022 | May, 2007 |
| | | Spectrum Analyzer | Advantest | R3162 / 100803466 | May, 2007 |
| | | Pre-Amplifier | Advantest | BB525C/3307A01814 | May, 2007 |
| | | Bilog Antenna | SCHAFFNER | CBL6112B / 2705 | May, 2007 |
| | | Horn Antenna | ETS | 3115 / 0005-6160 | Sep., 2006 |
| | | Pre-Amplifier | QTK | QTK-AMP-01/ 0001 | May, 2007 |
| ☒Site # 3 | X | Test Receiver | R & S | ESI 26 / 838786/004 | May, 2007 |
| | X | Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2007 |
| | X | Bilog Antenna | SCHAFFNER | CBL6112B / 2697 | May, 2007 |
| | X | Horn Antenna | Schwarzbeck | BBHA9120D / 305, 306 | July, 2007 |
| | X | Horn Antenna | Schwarzbeck | BBHA9170 / 208, 209 | July, 2007 |
| | X | Pre-Amplifier | QTK | QTK-AMP-01 / 0001 | July, 2007 |
| | X | Pre-Amplifier | QTK | QTK-AMP-03 / 0003 | May, 2007 |
| | X | Pre-Amplifier | HP | 8449B / 3008A01123 | July, 2007 |

Note: 1. All equipments are calibrated every one year.
2. Test equipments marked by "X" are used to measure the final test results.

## 2.2. Test Setup




## 2.3. Limits

➢ **General Radiated Emission Limits**

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| **FCC Part 15 Subpart C Paragraph 15.209(a) Limits** | | |
|---|---|---|
| Frequency MHz | uV/m @3m | dBuV/m@3m |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

Remarks : 1. RF Voltage (dBuV) = 20 log 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.

## 2.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.
The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field dtrength of harmonics measurement.
The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.
The frequency range from 30MHz to 10th harminics is checked.

## 2.5. Uncertainty

± 3.9 dB above 1GHz
± 3.8 dB below 1GHz

## 2.6. Test Result of Radiated Emission

Product : ErgoMedia 823 Laser
Test Item : Fundamental Radiated Emission
Test Site : No.3OATS
Test Mode : Mode 1: Transmitter (2402MHz)

| Frequency MHz | Correct Factor dB | Reading Level dBuV | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|---|---|---|---|---|---|
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| Channel 00 | | | | | |
| 2402.000 | -2.318 | 90.234 | 87.916 | -26.084 | 114.000 |
| **Average Detector** | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| Channel 00 | | | | | |
| 2402.000 | -2.318 | 92.957 | 90.639 | -23.361 | 114.000 |
| **Average Detector** | | | | | |

Note:

1. Measurement Level = Reading Level + Correct Factor.
2. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

Product : ErgoMedia 823 Laser
Test Item : Fundamental Radiated Emission
Test Site : No.3OATS
Test Mode : Mode 1: Transmitter (2448MHz)

| Frequency MHz | Correct Factor dB | Reading Level dBuV | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|---|---|---|---|---|---|
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| Channel 02 | | | | | |
| 2448.125 | -2.096 | 81.565 | 79.469 | -34.531 | 114.000 |
| **Average Detector** | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| Channel 02 | | | | | |
| 2448.125 | -2.096 | 91.537 | 89.441 | -24.559 | 114.000 |
| **Average Detector** | | | | | |

Note:

1. Measurement Level = Reading Level + Correct Factor.
2. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

Product : ErgoMedia 823 Laser
Test Item : Fundamental Radiated Emission
Test Site : No.3OATS
Test Mode : Mode 1: Transmitter (2480MHz)

| Frequency MHz | Correct Factor dB | Reading Level dBuV | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|---|---|---|---|---|---|
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| Channel 15 | | | | | |
| 2480.000 | -1.952 | 84.277 | 82.325 | -31.675 | 114.000 |
| **Average Detector** | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| Channel 15 | | | | | |
| 2480.000 | -1.952 | 87.189 | 85.237 | -28.763 | 114.000 |
| **Average Detector** | | | | | |

Note:

1. Measurement Level = Reading Level + Correct Factor.
2. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

Product : ErgoMedia 823 Laser
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter (2402MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4804.000 | 3.663 | 40.149 | 43.811 | -30.159 | 74.000 |
| 7206.000 | 9.357 | 37.581 | 46.937 | -27.033 | 74.000 |
| 9608.000 | 11.842 | 33.256 | 45.098 | -28.872 | 74.000 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4804.000 | 3.663 | 43.261 | 46.923 | -27.047 | 74.000 |
| 7206.000 | 9.357 | 38.469 | 47.825 | -26.145 | 74.000 |
| 9608.000 | 11.842 | 32.778 | 44.620 | -29.350 | 74.000 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:3KHz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
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.

Product : ErgoMedia 823 Laser
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter (2448 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4896.000 | 3.972 | 43.899 | 47.871 | -26.099 | 74.000 |
| 7344.000 | 9.715 | 37.844 | 47.558 | -26.412 | 74.000 |
| 9792.000 | 11.795 | 32.785 | 44.579 | -29.391 | 74.000 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4896.000 | 3.972 | 43.737 | 47.709 | -26.261 | 74.000 |
| 7344.000 | 9.715 | 37.554 | 47.268 | -26.702 | 74.000 |
| 9792.000 | 11.795 | 33.092 | 44.886 | -29.084 | 74.000 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:3KHz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
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.

Product : ErgoMedia 823 Laser
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter (2480 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4960.000 | 4.197 | 41.747 | 45.943 | -28.027 | 74.000 |
| 7440.000 | 9.951 | 34.477 | 44.428 | -29.542 | 74.000 |
| 9920.000 | 11.856 | 33.017 | 44.873 | -29.097 | 74.000 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4960.000 | 4.197 | 40.862 | 45.058 | -28.912 | 74.000 |
| 7440.000 | 9.951 | 35.570 | 45.521 | -28.449 | 74.000 |
| 9920.000 | 11.856 | 32.375 | 44.231 | -29.739 | 74.000 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:3KHz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
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.

Product : ErgoMedia 823 Laser
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter (2448 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 357.375 | 15.206 | 9.866 | 25.072 | -20.928 | 46.000 |
| 425.275 | 17.766 | 6.595 | 24.361 | -21.639 | 46.000 |
| 493.175 | 18.351 | 8.413 | 26.764 | -19.236 | 46.000 |
| 563.500 | 19.112 | 7.786 | 26.898 | -19.102 | 46.000 |
| 670.200 | 20.634 | 6.090 | 26.724 | -19.276 | 46.000 |
| 745.375 | 20.853 | 9.807 | 30.660 | -15.340 | 46.000 |
| **Vertical** | | | | | |
| 204.600 | 9.887 | 10.162 | 20.049 | -23.451 | 43.500 |
| 287.050 | 13.637 | 9.171 | 22.808 | -23.192 | 46.000 |
| 456.800 | 18.502 | 2.976 | 21.478 | -24.522 | 46.000 |
| 667.775 | 19.949 | 3.622 | 23.571 | -22.429 | 46.000 |
| 750.225 | 23.184 | 4.150 | 27.334 | -18.666 | 46.000 |
| 876.325 | 22.616 | 2.483 | 25.099 | -20.901 | 46.000 |

Note:

1. The reading levels below 1GHz are quasi-peak values.
2. "  " means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

# 3. Band Edge

## 3.1. Test Equipment

The following test equipments are used during the band edge tests:

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|---|---|---|---|
| X | Test Receiver | R & S | ESI 26 / 838786/004 | May, 2007 |
| X | Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2007 |
| X | Bilog Antenna | SCHAFFNER | CBL6112B / 2697 | May, 2007 |
| X | Horn Antenna | Schwarzbeck | BBHA9120D / 305, 306 | July, 2007 |
| X | Horn Antenna | Schwarzbeck | BBHA9170 / 208, 209 | July, 2007 |
| X | Pre-Amplifier | QTK | QTK-AMP-01 / 0001 | July, 2007 |
| X | Pre-Amplifier | QTK | QTK-AMP-03 / 0003 | May, 2007 |
| X | Pre-Amplifier | HP | 8449B / 3008A01123 | July, 2007 |

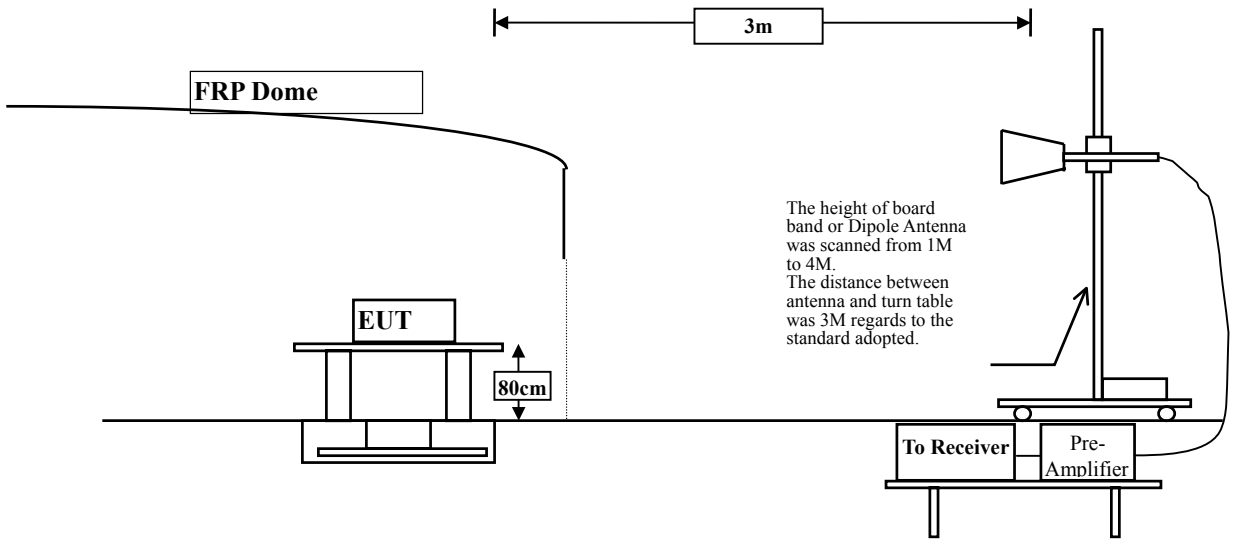
Test Site: Site3

Note: 1. All equipments are calibrated every one year.

2. The test equipments marked by "X" are used to measure the final test results.

## 3.2. Test Setup

**RF Radiated Measurement:**



## 3.3. Limits

In any 100 kHz 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 20 dB below that in the 100 kHz 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)).

## 3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.
The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz, respectively.

## 3.5. Uncertainty

Conducted is ± 1.27 dB
Radiated is ± 3.9 dB

## 3.6. Test Result of Band Edge

Product : ErgoMedia 823 Laser
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter

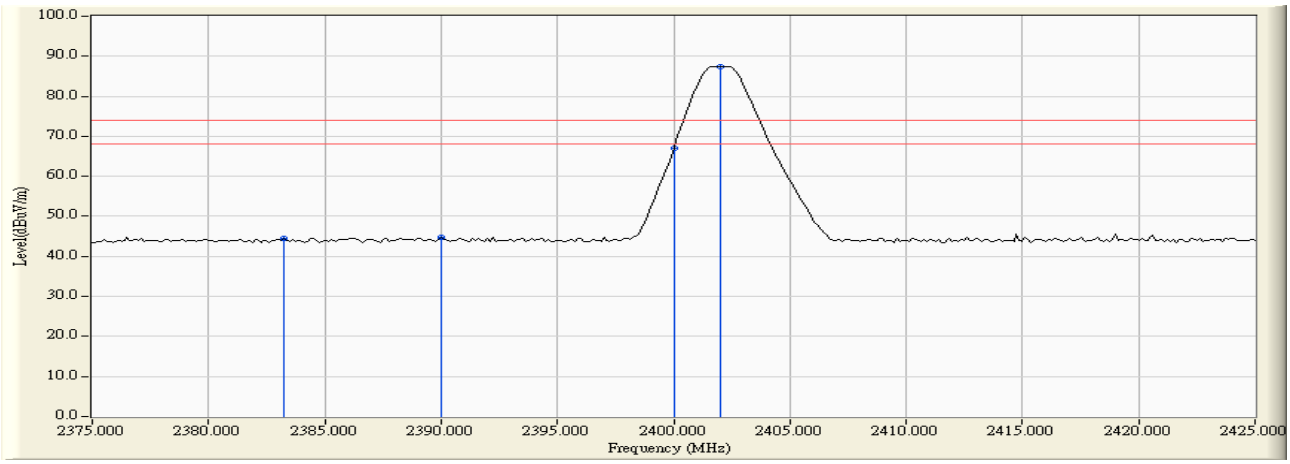
**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 00 (Horizontal) | <2400 | >20 | Pass |

**RF Radiated Measurement (Horizontal):**

| Channel No. | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|---|
| 00 (Peak) | 2383.250 | -2.410 | 46.788 | 44.378 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2390.000 | -2.378 | 47.034 | 44.657 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2400.000 | -2.328 | 69.371 | 67.043 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2402.000 | -2.318 | 89.768 | 87.450 | 74.00 | 54.00 | Pass |
| 00(Average) | -- | -- | -- | -- | 74.00 | 54.00 | Pass |

**Figure Channel 00: Horizontal (Peak)**




Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Product : ErgoMedia 823 Laser
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter

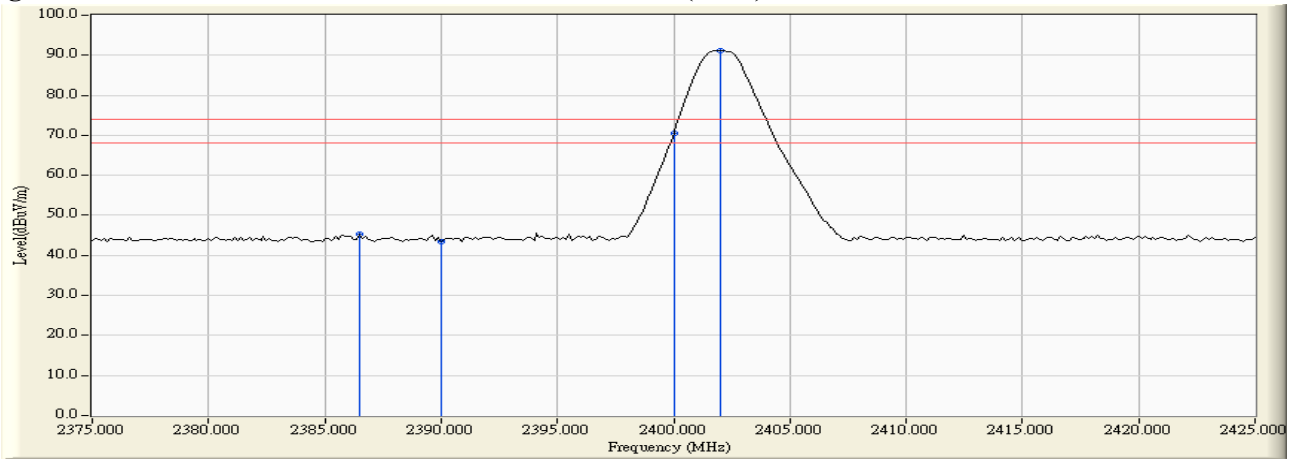
**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 00 (Vertical) | <2400 | >20 | Pass |

**RF Radiated Measurement (Vertical):**

| Channel No. | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|---|
| 00 (Peak) | 2386.500 | -2.394 | 47.634 | 45.240 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2390.000 | -2.378 | 45.737 | 43.360 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2400.000 | -2.328 | 72.839 | 70.511 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2402.000 | -2.318 | 93.344 | 91.026 | 74.00 | 54.00 | Pass |
| 00 (Average) | -- | -- | -- | -- | 74.00 | 54.00 | Pass |

**Figure Channel 00: Vertical (Peak)**




Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Product : ErgoMedia 823 Laser
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter

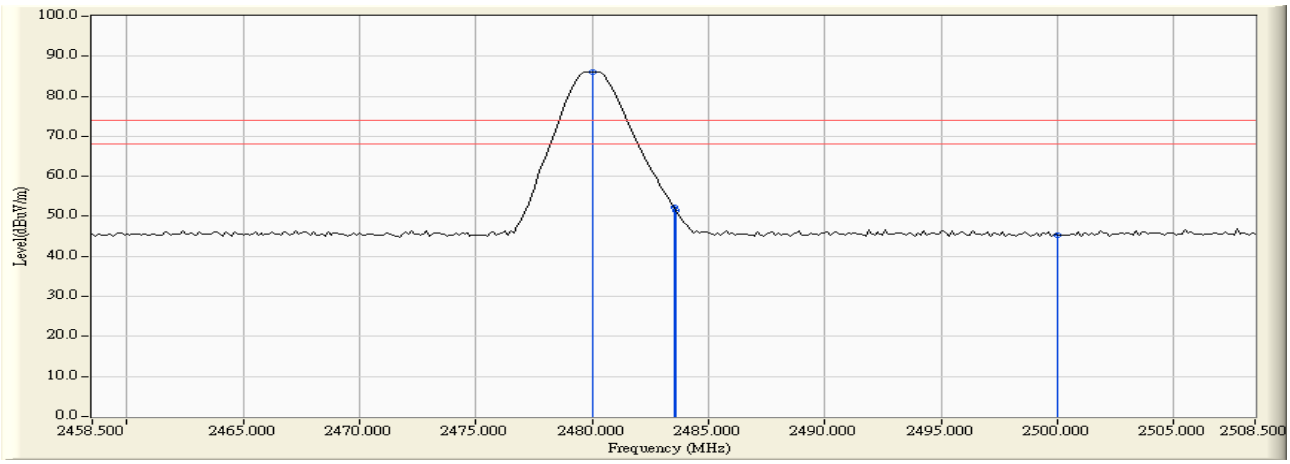
**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 15 (Horizontal) | >2483.5 | >20 | Pass |

**RF Radiated Measurement (Horizontal):**

| Channel No. | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|---|
| 15(Peak) | 2480.000 | -1.952 | 88.064 | 86.113 | 74.00 | 54.00 | Pass |
| 15(Peak) | 2483.500 | -1.937 | 54.257 | 52.320 | 74.00 | 54.00 | Pass |
| 15(Peak) | 2483.625 | -1.936 | 53.321 | 51.384 | 74.00 | 54.00 | Pass |
| 15(Peak) | 2500.000 | -1.886 | 47.114 | 45.228 | 74.00 | 54.00 | Pass |
| 15(Average) | -- | -- | -- | -- | 74.00 | 54.00 | Pass |

**Figure Channel 15: Horizontal (Peak)**




Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Product : ErgoMedia 823 Laser
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter

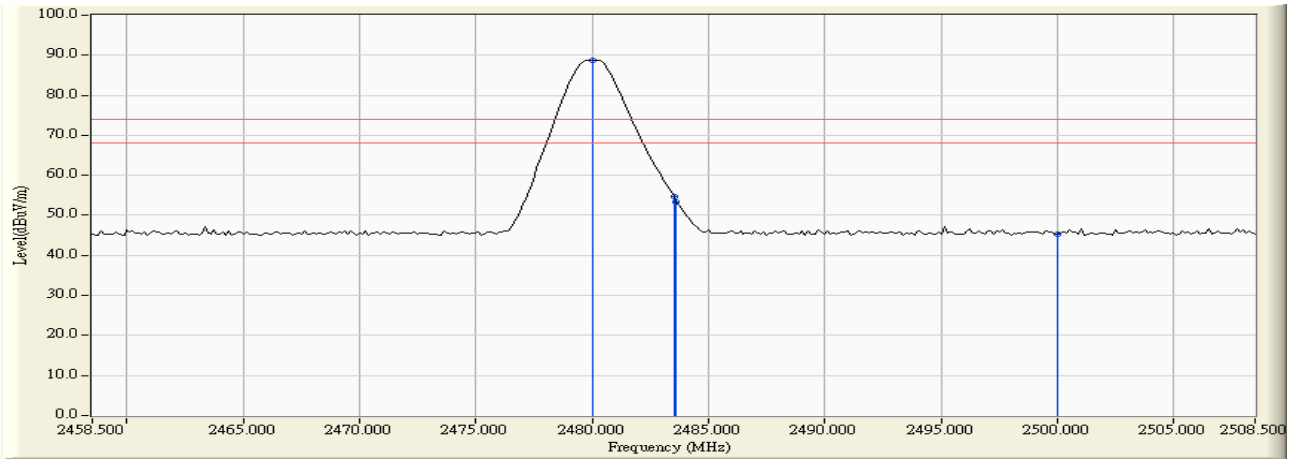
**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 15 (Vertical) | >2483.5 | >20 | Pass |

**RF Radiated Measurement (Vertical):**

| Channel No. | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|---|
| 15(Peak) | 2480.000 | -1.952 | 90.632 | 88.681 | 74.00 | 54.00 | Pass |
| 15(Peak) | 2483.500 | -1.937 | 56.706 | 54.769 | 74.00 | 54.00 | Pass |
| 15(Peak) | 2483.625 | -1.936 | 55.295 | 53.358 | 74.00 | 54.00 | Pass |
| 15(Peak) | 2500.000 | -1.886 | 47.111 | 45.225 | 74.00 | 54.00 | Pass |
| 15(Average) | -- | -- | -- | -- | 74.00 | 54.00 | Pass |

**Figure Channel 15: Vertical (Peak)**




Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

## 4. EMI Reduction Method During Compliance Testing

No modification was made during testing.

# Attachment 1: EUT Test Photographs

# Attachment 2: EUT Detailed Photographs