



| Product Name | :Ergo 825 Laser |
|--------------|-----------------|
| Model No. | : GM-070007/R |
| FCC ID. | : FSUGMZHZ |

- 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 | : | 2007/04/14 |
|-----------------|---|----------------------|
| Issued Date | : | 2007/05/16 |
| Report No. | : | 074L150-RFUSP07V01-B |

The 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.

| Test Report Certification Issued Date : 2007/05/16 Report No. : 074L150-RFUSP07V01-B | | | | |
|--|-------|--|--|--|
| | | QuieTek | | |
| Product Name | : | Ergo 825 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. | : | GM-070007/R | | |
| FCC ID. | : | FSUGMZHZ | | |
| Rated Voltage | : | AC 120 V / 60 Hz | | |
| EUT Voltage | : | DC 5V (Power by PC) | | |
| Trade Name | : | Genius | | |
| Applicable Standard | : | FCC CFR Title 47 Part 15 Subpart C Section 15.249: 2006 | | |
| Test Result | : | Complied | | |
| | | | | |
| The test results relate only to the | e san | nples tested. | | |
| The test report shall not be repro | duce | ed except in full without the written approval of QuieTek Corporation. | | |
| Documented By | : | Carol Tsai | | |
| | | (Carol Tsai) | | |
| Tested By | : | Sheena Uwang | | |
| Approved By | : | (Sheena Huang) Roy Warg | | |
| | | (Roy Wan) | | |
| | | | | |

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1. General Information

1.1. EUT Description

| Product Name | Ergo 825 Laser |
|--------------------|-----------------|
| Trade Name | Genius |
| Model No. | GM-070007/R |
| Frequency Range | 2400~2483.50MHz |
| Antenna Gain | -3dBi |
| Channel Number | 16 |
| Type of Modulation | GFSK |
| Channel Control | Auto |
| Antenna Type | Printed |

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

- 1. This device is an Ergo 825 Laser included a 2.4GHz receiving function, and 2.4GHz transmitting function.
- 2. The variation of model number is for different housing. The circuit of each model is identical.
- 3. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249.
- 4. Regards to the frequency band operation; the lowest
 imiddle and highest frequency of channel were selected to perform the test, and then shown on this report.
- 5. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 074L150-RFUSP01V02 under Declaration of Conformity.

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

| Pre-Test Mode | | | | | |
|----------------------|------------------|--|--|--|--|
| EMI Mode 1: Transmit | | | | | |
| Final Test Mode | | | | | |
| ТХ | Mode 1: Transmit | | | | |

1.4. Tested System Details

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

| | Product | Manufacturer | Model No. | Serial No. | FCC ID | Power Cord |
|---|-----------|--------------|-----------|-----------------|--------|--------------------|
| 1 | Monitor | CHI MEI | A170E1-09 | 3UC120955SA1249 | DoC | Non-Shielded, 1.8m |
| 2 | PC | HP | DTPC27 | SG21200950 | DoC | Non-Shielded, 1.8m |
| 3 | Printer | HP | C2642A | MY75L1D2XN | DoC | Non-Shielded, 0.7m |
| 4 | Modem | ACEEX | DM-1414 | 980033038 | DoC | Non-Shielded, 1.6m |
| 5 | Modem | ACEEX | DM-1414 | 0102027545 | DoC | Non-Shielded, 1.6m |
| 6 | USB Mouse | Logitech | M-UV83 | LZE35006034 | DoC | |
| 7 | Mouse | Logitech | M-SBF83 | HCA52200209 | DoC | |
| 8 | Keyboard | Logitech | Y-SM46 | SY525U17998 | DoC | |

1.5. Configuration of tested System





1.6. 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) |

1.7. Test Facility

Ambient conditions in the laboratory:

| Items | Test Item | Required (IEC 68-1) | Actual |
|----------------------------|----------------------|---------------------|----------|
| Temperature (°C) | | 15 - 35 | 25 |
| Humidity (%RH) | Conducted Emission | 25 - 75 | 50 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | | 15 - 35 | 25 |
| Humidity (%RH) | FCC PART 15 C 15.249 | 25 - 75 | 65 |
| Barometric pressure (mbar) | Band Edge | 860 - 1060 | 950-1000 |
| Temperature (°C) | | 15 - 35 | 25 |
| Humidity (%RH) | FCC PART 15 C 15.209 | 25 - 75 | 65 |
| Barometric pressure (mbar) | Raulaleu Emission | 860 - 1060 | 950-1000 |

Site Description:

January 24, 2005 File on Federal Communications Commission Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046 Registration Number: 365520

Accredited by CNLA Accreditation Number: 1313 Effective through: September 27, 2007

Accredited by NVLAP NVLAP Lab Code: 200347-0 Effective through: September 30, 2007







Site Name: Quietek Corporation

Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing, Chiung-Lin, Hsin-Chu County, Taiwan, R.O.C. TEL : 886-3-592-8858 / FAX : 886-3-592-8859 E-Mail : service@quietek.com

2. Conducted Emission

2.1. Test Equipment

The following test equipment are used during the test:

| Item | Equipment | Manufacturer | Model No. / Serial No. | Last Cal. | Remark |
|------|--------------------|--------------|------------------------|------------|-------------|
| 1 | 4-Wire ISN | R & S | ENY 41 / 837032/001 | Feb., 2007 | |
| 2 | Double 2-Wire ISN | R & S | ENY 22 / 835354/008 | Feb., 2007 | Peripherals |
| 3 | LISN | R&S | ESH3-Z5 / 836679/022 | Jun., 2006 | EUT |
| 4 | LISN | R & S | ESH3-Z5 / 836679/013 | Dec., 2006 | |
| 5 | Pulse Limiter | R & S | ESH3-Z2 / 100411 | Oct., 2006 | |
| 6 | Test Receiver | R & S | ESCS 30 / 100149 | Oct., 2006 | |
| 7 | No.3 Shielded Room | | | N/A | |

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup





2.3. Limits

| FCC Part 15 Subpa | FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV) | | | | | |
|-------------------|--|-------|--|--|--|--|
| Frequency MHz | QP | AV | | | | |
| 0.15 - 0.50 | 66-56 | 56-46 | | | | |
| 0.50-5.0 | 56 | 46 | | | | |
| 5.0 - 30 | 60 | 50 | | | | |

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

2.4. 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. (Please refers to the block diagram of the test setup and photographs.) 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.

2.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2006

2.6. Uncertainty

The measurement uncertainty is defined as \pm 2.26 dB.

2.7. Test Result

| Site : QuieTek Shielding Room3 | Time : 2007/05/04 - 05:05 |
|--------------------------------|-------------------------------|
| Limit : CISPR_B_00M_QP | Margin : 0 |
| EUT : Ergo 825 Laser | Probe : SR3_LISN(16A) - Line1 |
| Power : DC 5V (Power by PC) | Note : Ergo 825 Laser (TX) |



| | | Frequency | Correct Factor | Reading Level | Measure Level | Margin | Limit | Detector Type |
|---|---|-----------|----------------|---------------|---------------|---------|--------|---------------|
| | | (MHz) | (dB) | (dBuV) | (dBuV) | (dB) | (dBuV) | |
| 1 | * | 0.192 | 0.151 | 49.310 | 49.461 | -15.339 | 64.800 | QUASIPEAK |
| 2 | | 0.324 | 0.185 | 33.510 | 33.695 | -27.334 | 61.029 | QUASIPEAK |
| 3 | | 0.884 | 0.230 | 18.610 | 18.840 | -37.160 | 56.000 | QUASIPEAK |
| 4 | | 1.661 | 0.335 | 15.730 | 16.065 | -39.935 | 56.000 | QUASIPEAK |
| 5 | | 4.766 | 0.476 | 14.730 | 15.206 | -40.794 | 56.000 | QUASIPEAK |
| 6 | | 18.574 | 0.960 | 31.930 | 32.890 | -27.110 | 60.000 | QUASIPEAK |

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor



| Site : QuieTek Shielding Room3 | Time : 2007/05/04 - 05:05 |
|--------------------------------|-------------------------------|
| Limit : CISPR_B_00M_AV | Margin : 0 |
| EUT : Ergo 825 Laser | Probe : SR3_LISN(16A) - Line1 |
| Power : DC 5V (Power by PC) | Note : Ergo 825 Laser (TX) |



| | | Frequency | Correct Factor | Reading Level | Measure Level | Margin | Limit | Detector Type |
|---|---|-----------|----------------|---------------|---------------|---------|--------|---------------|
| | | (MHz) | (dB) | (dBuV) | (dBuV) | (dB) | (dBuV) | |
| 1 | * | 0.192 | 0.151 | 33.650 | 33.801 | -20.999 | 54.800 | AVERAGE |
| 2 | | 0.324 | 0.185 | 13.800 | 13.985 | -37.044 | 51.029 | AVERAGE |
| 3 | | 0.884 | 0.230 | 15.620 | 15.850 | -30.150 | 46.000 | AVERAGE |
| 4 | | 1.661 | 0.335 | 5.080 | 5.415 | -40.585 | 46.000 | AVERAGE |
| 5 | | 4.766 | 0.476 | 8.310 | 8.786 | -37.214 | 46.000 | AVERAGE |
| 6 | | 18.574 | 0.960 | 26.120 | 27.080 | -22.920 | 50.000 | AVERAGE |

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor



| Site : QuieTek Shielding Room3 | Time : 2007/05/04 - 05:09 |
|--------------------------------|-------------------------------|
| Limit : CISPR_B_00M_QP | Margin : 0 |
| EUT : Ergo 825 Laser | Probe : SR3_LISN(16A) - Line2 |
| Power : DC 5V (Power by PC) | Note : Ergo 825 Laser (TX) |



| | | Frequency | Correct Factor | Reading Level | Measure Level | Margin | Limit | Detector Type |
|---|---|-----------|----------------|---------------|---------------|---------|--------|---------------|
| | | (MHz) | (dB) | (dBuV) | (dBuV) | (dB) | (dBuV) | |
| 1 | * | 0.189 | 0.150 | 49.370 | 49.520 | -15.366 | 64.886 | QUASIPEAK |
| 2 | | 0.318 | 0.183 | 34.800 | 34.983 | -26.217 | 61.200 | QUASIPEAK |
| 3 | | 1.447 | 0.304 | 18.690 | 18.994 | -37.006 | 56.000 | QUASIPEAK |
| 4 | | 4.722 | 0.450 | 12.450 | 12.900 | -43.100 | 56.000 | QUASIPEAK |
| 5 | | 11.345 | 0.680 | 20.730 | 21.410 | -38.590 | 60.000 | QUASIPEAK |
| 6 | | 18.030 | 0.890 | 31.300 | 32.190 | -27.810 | 60.000 | QUASIPEAK |

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor



| Site : QuieTek Shielding Room3 | Time : 2007/05/04 - 05:09 |
|--------------------------------|-------------------------------|
| Limit : CISPR_B_00M_AV | Margin : 0 |
| EUT : Ergo 825 Laser | Probe : SR3_LISN(16A) - Line2 |
| Power : DC 5V (Power by PC) | Note : Ergo 825 Laser (TX) |



| | | Frequency | Correct Factor | Reading Level | Measure Level | Margin | Limit | Detector Type |
|---|---|-----------|----------------|---------------|---------------|---------|--------|---------------|
| | | (MHz) | (dB) | (dBuV) | (dBuV) | (dB) | (dBuV) | |
| 1 | * | 0.189 | 0.150 | 33.160 | 33.310 | -21.576 | 54.886 | AVERAGE |
| 2 | | 0.318 | 0.183 | 19.550 | 19.733 | -31.467 | 51.200 | AVERAGE |
| 3 | | 1.447 | 0.304 | 13.600 | 13.904 | -32.096 | 46.000 | AVERAGE |
| 4 | | 4.722 | 0.450 | 6.280 | 6.730 | -39.270 | 46.000 | AVERAGE |
| 5 | | 11.345 | 0.680 | 13.480 | 14.160 | -35.840 | 50.000 | AVERAGE |
| 6 | | 18.030 | 0.890 | 24.800 | 25.690 | -24.310 | 50.000 | AVERAGE |

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

3. Radiated Emission

3.1. Test Equipment

The following test equip

| Item | | Equipment | Manufacturer | Model No. / Serial No. | Last Cal. | |
|------|----------------------|-------------------|--------------|------------------------------|------------|--|
| 1 | Х | Test Receiver | R & S | ESCS 30 / 825442/017 | Jan., 2007 | |
| 2 | Х | Spectrum Analyzer | Advantest | R3261C / 81720266 | N/A | |
| 3 | Х | Pre-Amplifier | HP | 8447D / 2944A09276 | N/A | |
| 4 | Х | Bilog Antenna | Chase | CBL6112B / 2455 | Sep., 2006 | |
| 5 | Х | Spectrum Analyzer | R & S | FSP40 / 100005 | Aug., 2006 | |
| 6 | Х | Pre-Amplifier | HP | 8449B / 3008A01123 | Feb., 2007 | |
| 7 | Х | Horn Antenna | Schwarzbeck | BBHA 9120D / BBHA9120D312 | Jul., 2006 | |
| 8 | No.1 OATS Sep., 2006 | | | | | |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year. 2. "N/A" Ca1.Date is used to Pre-test, not final test.

3.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:





3.3. Limits

➤ Fundamental and Harmonics Emission Limits

| FCC Part 15 Subpart C Paragraph 15.249 Limits | | | | | |
|---|----------------------------------|--------|--------------------------------|--------|--|
| Fundamental Frequency | Field Strength of Fundamental | | Field Strength of Harmonics | | |
| MHz | mV/m | dBuV/m | uV/m | dBuV/m | |
| 902-928 | 50 | 94 | 500 | 54 | |
| 2400-2483.5 | 50 | 94 | 500 | 54 | |
| 5725-5875 | 50 | 94 | 500 | 54 | |

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

➤ Spurious electric field strength limits

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | | | |
|---|------|--------|---------------------------------|--|
| Frequency MHz | uV/m | dBuV/m | Measurement distance (meter) | |
| 1.705-30 | 30 | 29.5 | 30 | |
| 30-88 | 100 | 40 | 3 | |
| 88-216 | 150 | 43.5 | 3 | |
| 216-960 | 200 | 46 | 3 | |
| Above 960 | 500 | 54 | 3 | |

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.

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 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.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.209 and Paragraph 15.249: 2006

3.6. Uncertainty

The measurement uncertainty $30MHz \sim 1GHz$ as $\pm 3.19dB$ $1GHz \sim 26.5GHz$ as $\pm 3.9dB$

3.7. Test Result

Fundamental :

| Site : Site 1 | Time : 2007/05/10 - 23:23 |
|------------------------------------|--|
| Limit : FCC_SpartC_15.249_F_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL |
| Power : DC 5V (Power by PC) | Note: 2402-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | * | 2401.820 | 29.028 | 53.360 | 82.388 | -31.612 | 114.000 | 94.000 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/05/10 - 23:26 |
|------------------------------------|--|
| Limit : FCC_SpartC_15.249_F_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : FCC_RF_1G-18G(2005-3) - VERTICAL |
| Power : DC 5V (Power by PC) | Note: 2402-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | * | 2401.820 | 27.428 | 60.160 | 87.588 | -26.412 | 114.000 | 94.000 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/05/10 - 23:30 |
|------------------------------------|--|
| Limit : FCC_SpartC_15.249_F_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL |
| Power : DC 5V (Power by PC) | Note: 2448-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | * | 2447.720 | 29.169 | 51.190 | 80.360 | -33.640 | 114.000 | 94.000 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time:2007/05/10-23:33 |
|------------------------------------|--|
| Limit : FCC_SpartC_15.249_F_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : FCC_RF_1G-18G(2005-3) - VERTICAL |
| Power : DC 5V (Power by PC) | Note: 2448-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | * | 2447.720 | 27.569 | 57.000 | 84.570 | -29.430 | 114.000 | 94.000 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time:2007/05/10-23:38 |
|------------------------------------|--|
| Limit : FCC_SpartC_15.249_F_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL |
| Power : DC 5V (Power by PC) | Note: 2480-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | * | 2479.920 | 29.283 | 57.800 | 87.083 | -26.917 | 114.000 | 94.000 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/05/10 - 23:43 |
|------------------------------------|--|
| Limit : FCC_SpartC_15.249_F_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : FCC_RF_1G-18G(2005-3) - VERTICAL |
| Power : DC 5V (Power by PC) | Note : 2480-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | * | 2480.000 | 27.683 | 58.630 | 86.313 | -27.687 | 114.000 | 94.000 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

30 MHz-1 GHz Spurious:

| Site : Site 1 | Time : 2007/04/14 - 21:31 |
|-----------------------------|---------------------------------------|
| Limit : FCC_CLASS_B_03M_QP | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : PRBforS3/2005-08 - HORIZONTAL |
| Power : DC 5V (Power by PC) | Note : TX 2448MHz-Ergo 825 Laser |



| | | Frequency | Correct Factor | Reading Level | Measure Level | Margin | Limit | Detector Type |
|----|---|-----------|----------------|---------------|---------------|---------|----------|---------------|
| | | (MHz) | (dB) | (dBuV) | (dBuV/m) | (dB) | (dBuV/m) | |
| 1 | | 42.125 | -4.451 | 27.776 | 23.325 | -16.675 | 40.000 | QUASIPEAK |
| 2 | | 49.400 | -11.432 | 37.882 | 26.449 | -13.551 | 40.000 | QUASIPEAK |
| 3 | | 100.325 | -7.722 | 34.394 | 26.672 | -16.828 | 43.500 | QUASIPEAK |
| 4 | | 299.175 | -4.080 | 33.218 | 29.138 | -16.862 | 46.000 | QUASIPEAK |
| 5 | | 398.600 | -2.791 | 35.112 | 32.320 | -13.680 | 46.000 | QUASIPEAK |
| 6 | | 544.100 | 2.992 | 26.938 | 29.930 | -16.070 | 46.000 | QUASIPEAK |
| 7 | | 563.500 | 1.040 | 29.279 | 30.319 | -15.681 | 46.000 | QUASIPEAK |
| 8 | | 597.450 | 3.481 | 26.205 | 29.686 | -16.314 | 46.000 | QUASIPEAK |
| 9 | * | 842.375 | 4.945 | 32.706 | 37.651 | -8.349 | 46.000 | QUASIPEAK |
| 10 | | 1000.000 | 8.637 | 27.786 | 36.423 | -17.577 | 54.000 | QUASIPEAK |

- 1. All Reading Levels are Quasi-Peak value.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.

| Site : Site 1 | Time : 2007/04/14 - 21:34 |
|-----------------------------|-------------------------------------|
| Limit : FCC_CLASS_B_03M_QP | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : PRBforS3/2005-08 - VERTICAL |
| Power : DC 5V (Power by PC) | Note : TX 2448MHz-Ergo 825 Laser |



| | | Frequency | Correct Factor | Reading Level | Measure Level | Margin | Limit | Detector Type |
|---|---|-----------|----------------|---------------|---------------|---------|----------|---------------|
| | | (MHz) | (dB) | (dBuV) | (dBuV/m) | (dB) | (dBuV/m) | |
| 1 | | 30.000 | 0.612 | 30.370 | 30.982 | -9.018 | 40.000 | QUASIPEAK |
| 2 | | 56.675 | -4.915 | 37.103 | 32.188 | -7.812 | 40.000 | QUASIPEAK |
| 3 | * | 100.325 | -0.312 | 37.226 | 36.915 | -6.585 | 43.500 | QUASIPEAK |
| 4 | | 371.925 | -3.187 | 27.811 | 24.624 | -21.376 | 46.000 | QUASIPEAK |
| 5 | | 665.350 | -2.341 | 35.497 | 33.156 | -12.844 | 46.000 | QUASIPEAK |
| 6 | | 842.375 | 2.660 | 28.181 | 30.841 | -15.159 | 46.000 | QUASIPEAK |
| 7 | | 932.100 | 5.660 | 26.999 | 32.659 | -13.341 | 46.000 | QUASIPEAK |
| 8 | | 966.050 | 7.468 | 26.058 | 33.526 | -20.474 | 54.000 | QUASIPEAK |
| 9 | | 1000.000 | 3.847 | 29.869 | 33.716 | -20.284 | 54.000 | QUASIPEAK |

- 1. All Reading Levels are Quasi-Peak value.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.

Spurious and Harmonics Emission :

| Site : Site 1 | Time : 2007/04/14 - 20:52 |
|----------------------------------|---|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : HORN9120D+9170D(1~40G) - HORIZONTAL |
| Power : DC 5V (Power by PC) | Note : TX 2402MHz-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | | 4803.950 | 3.663 | 42.023 | 45.685 | -28.285 | 74.000 | 54.00 | PEAK |
| 2 | | 7205.950 | 9.357 | 39.655 | 49.011 | -24.959 | 74.000 | 54.00 | PEAK |
| 3 | * | 9607.950 | 11.842 | 37.296 | 49.138 | -24.832 | 74.000 | 54.00 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/04/14 - 20:55 |
|----------------------------------|---|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : HORN9120D+9170D(1~40G) - VERTICAL |
| Power : DC 5V (Power by PC) | Note : TX 2402MHz-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | | 4803.950 | 3.663 | 41.634 | 45.296 | -28.674 | 74.000 | 54.00 | PEAK |
| 2 | | 7205.950 | 9.357 | 39.132 | 48.488 | -25.482 | 74.000 | 54.00 | PEAK |
| 3 | * | 9607.950 | 11.842 | 37.180 | 49.022 | -24.948 | 74.000 | 54.00 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/04/14 - 21:08 |
|----------------------------------|---|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : HORN9120D+9170D(1~40G) - HORIZONTAL |
| Power : DC 5V (Power by PC) | Note : TX 2448MHz-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | | 4896.000 | 3.972 | 40.400 | 44.372 | -29.598 | 74.000 | 54.00 | PEAK |
| 2 | * | 7344.000 | 9.715 | 40.725 | 50.439 | -23.531 | 74.000 | 54.00 | PEAK |
| 3 | | 9792.000 | 11.795 | 37.843 | 49.637 | -24.333 | 74.000 | 54.00 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/04/14 - 21:11 |
|----------------------------------|---|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : HORN9120D+9170D(1~40G) - VERTICAL |
| Power : DC 5V (Power by PC) | Note : TX 2448MHz-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | | 4896.000 | 3.972 | 42.062 | 46.034 | -27.936 | 74.000 | 54.00 | PEAK |
| 2 | | 7344.000 | 9.715 | 40.156 | 49.870 | -24.100 | 74.000 | 54.00 | PEAK |
| 3 | * | 9792.000 | 11.795 | 38.231 | 50.025 | -23.945 | 74.000 | 54.00 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/04/14 - 21:15 |
|----------------------------------|---|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : HORN9120D+9170D(1~40G) - HORIZONTAL |
| Power : DC 5V (Power by PC) | Note : TX 2480MHz-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | | 4960.000 | 4.197 | 40.263 | 44.459 | -29.511 | 74.000 | 54.00 | PEAK |
| 2 | * | 7440.000 | 9.951 | 39.352 | 49.303 | -24.667 | 74.000 | 54.00 | PEAK |
| 3 | | 9920.000 | 11.856 | 36.948 | 48.804 | -25.166 | 74.000 | 54.00 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/04/14 - 21:18 |
|----------------------------------|---|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : HORN9120D+9170D(1~40G) - VERTICAL |
| Power : DC 5V (Power by PC) | Note : TX 2480MHz-Ergo 825 Laser |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | | 4960.000 | 4.197 | 42.142 | 46.338 | -27.632 | 74.000 | 54.00 | PEAK |
| 2 | * | 7440.000 | 9.951 | 39.099 | 49.050 | -24.920 | 74.000 | 54.00 | PEAK |
| 3 | | 9920.000 | 11.856 | 37.076 | 48.932 | -25.038 | 74.000 | 54.00 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

4. Band Edge

4.1. Test Equipment

The following test equipment are used during the test:

| RF C | F Conducted Measurement: | | | | | | | | |
|-------|--------------------------|-------------------|--------------|------------------------------|------------|--|--|--|--|
| Item | Equipment | | Manufacturer | Model No. / Serial No. | Last Cal. | | | | |
| 1 | Spec | ctrum Analyzer | R & S | FSP / 100561 | Mar., 2007 | | | | |
| 2 | No.1 | OATS | | | Sep., 2006 | | | | |
| RF Ra | adiate | ed Measurement: | | | | | | | |
| Item | Equipment Manufacturer | | | Model No. / Serial No. | Last Cal. | | | | |
| 1 | X Spectrum Analyzer | | R&S | FSP40 / 100005 | Aug., 2006 | | | | |
| 2 | Х | Pre-Amplifier | HP | 8449B / 3008A01123 | Feb., 2007 | | | | |
| 3 | | Loop Antenna | R&S | HFH2-Z2 / 833799/004 | Sep., 2006 | | | | |
| 4 | | BiconiLog Antenna | Schwarzbeck | VULB 9166 / 1061 | Sep., 2006 | | | | |
| 5 | | Bilog Antenna | Chase | CBL6112B / 2455 | Sep., 2006 | | | | |
| 6 | X Horn Antenna | | Schwarzbeck | BBHA 9120D / BBHA9120D312 | Sep., 2006 | | | | |
| 7 | No.1 OATS Sep., 2006 | | | | | | | | |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

2. Mark "X" test instruments are used to measure the final test results.

4.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



4.3. 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 50 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)).

4.4. 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 below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.249: 2006

4.6. Uncertainty

The measurement uncertainty Conducted is defined as \pm 1.27dB Radiated is defined as \pm 3.9dB

4.7. Test Result

| Site : Site 1 | Time : 2007/04/14 - 23:35 |
|----------------------------------|---|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : HORN9120D+9170D(1~40G) - HORIZONTAL |
| Power : DC 5V (Power by PC) | Note : 2402(Ergo 825 Laser) |



| | | Frequency | Correct | Reading Level | Measure | Margin | Peak | Average | Detector |
|---|---|-----------|-------------|---------------|----------|---------|----------|----------|----------|
| | | (MHz) | Factor (dB) | (dBuV) | Level | (dB) | Limit | Limit | Туре |
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | | 2390.000 | -2.378 | 47.405 | 45.028 | -28.942 | 74.000 | 54.00 | PEAK |
| 2 | | 2400.000 | -2.328 | 62.589 | 60.261 | -13.709 | 74.000 | 54.00 | PEAK |
| 3 | * | 2402.000 | -2.318 | 84.118 | 81.800 | 7.830 | 74.000 | 54.00 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/04/14 - 23:38 |
|----------------------------------|---|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : HORN9120D+9170D(1~40G) - VERTICAL |
| Power : DC 5V (Power by PC) | Note : 2402(Ergo 825 Laser) |



| | | Frequency | Correct | Reading Level | Measure | Margin | Peak | Average | Detector |
|---|---|-----------|-------------|---------------|----------|---------|----------|----------|----------|
| | | (MHz) | Factor (dB) | (dBuV) | Level | (dB) | Limit | Limit | Гуре |
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | | 2390.000 | -2.378 | 47.646 | 45.269 | -28.701 | 74.000 | 54.00 | PEAK |
| 2 | | 2400.000 | -2.328 | 64.526 | 62.198 | -11.772 | 74.000 | 54.00 | PEAK |
| 3 | * | 2402.000 | -2.318 | 85.701 | 83.383 | 9.413 | 74.000 | 54.00 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/04/14 - 23:44 |
|----------------------------------|---|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : HORN9120D+9170D(1~40G) - HORIZONTAL |
| Power : DC 5V (Power by PC) | Note : 2480(Ergo 825 Laser) |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level | Margin (dB) | Peak Limit | Average Limit | Detector Type |
|---|---|--------------------|------------------------|-------------------------|------------------|----------------|---------------|------------------|------------------|
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | * | 2480.000 | -1.952 | 85.972 | 84.021 | 10.051 | 74.000 | 54.00 | PEAK |
| 2 | | 2483.500 | -1.937 | 52.148 | 50.211 | -23.759 | 74.000 | 54.00 | PEAK |
| 3 | | 2500.000 | -1.886 | 47.656 | 45.770 | -28.200 | 74.000 | 54.00 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.

| Site : Site 1 | Time : 2007/04/14 - 23:47 |
|----------------------------------|---|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| EUT : Ergo 825 Laser | Probe : HORN9120D+9170D(1~40G) - VERTICAL |
| Power : DC 5V (Power by PC) | Note : 2480(Ergo 825 Laser) |



| | | Frequency | Correct | Reading Level | Measure | Margin | Peak | Average | Detector |
|---|---|-----------|-------------|---------------|----------|---------|----------|----------|----------|
| | | (MHz) | Factor (dB) | (dBuV) | Level | (dB) | Limit | Limit | Туре |
| | | | | | (dBuV/m) | | (dBuV/m) | (dBuV/m) | |
| 1 | * | 2480.000 | -1.952 | 85.798 | 83.847 | 9.877 | 74.000 | 54.00 | PEAK |
| 2 | | 2483.500 | -1.937 | 52.920 | 50.983 | -22.987 | 74.000 | 54.00 | PEAK |
| 3 | | 2500.000 | -1.886 | 48.043 | 46.157 | -27.813 | 74.000 | 54.00 | PEAK |

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. 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.