Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

FCC 47 CFR PART 15 SUBPART C

TEST REPORT

FOR

Product Name: Traveler 9000

Model: GM-100017/C

Trade Name: Genius

Issued to KYE SYSTEMS CORP.

No.492, Sec. 5, Chongxin Rd., Sanchong Dist., New Taipei City 24160, Taiwan (R.O.C.)

Issued by

Global Certification Corp.

| EMC | Xizhi office | No.146, Sec. 2, Xiangzhang Rd., Xizhi Dist., New |
|-----------|--------------|--|
| Test Site | and Lab | Taipei City 221, Taiwan (R.O.C.) |

Note: This test refers exclusively to the test presented test model and sample. This report shall not be reproduced except in full, without the written approval of Global Certification Corporation. This document may be altered or revised by Global Certification Corporation. Personnel only, and shall be noted in the revision section of the document.



Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

| TABL | LE OF CONTENTS | 2 |
|------------|--|--------|
| 1. Gl | ENERAL INFORMATION | 3 |
| 1.1 D | DESCRIPTION OF THE TESTED SAMPLES | 4 |
| | EST METHODOLOGY | |
| | | |
| | GENERAL TEST PROCEDURES | |
| 2.2 F | CC PART 15.205 RESTRICTED BANDS OF OPERATIONS | ·(|
| 2.3 D | DESCRIPTION OF TEST MODESDESCRIPTION OF THE SUPPORT EQUIPMENTS | ((|
| | EST AND MEASUREMENT EQUIPMENT | |
| | CALIBRATION | |
| 3.1 3.2 | CALIBRATION EOUIPMENT | |
| | | |
| 4. SE | ECTION 15.249 REQUIREMENTS (FUNDAMENTAL/ HARMONICS) | 10 |
| 4.1 | TEST SETUP | 10 |
| 4.2 | LIMIT | |
| 4.3 | RESULT: PASSED | |
| 4.4 | TEST DATA: | |
| 5. SE | ECTION 15.205 REQUIREMENTS (BAND EDGE) | 19 |
| 5.1 | TEST SETUP | 19 |
| 5.2 | Limit | |
| 5.3 | RESULT: PASSED | |
| 5.4 | TEST DATA: | 20 |
| 6. SE | ECTION 15.209 REQUIREMENTS (GENERAL RADIATED EMISSION) | 24 |
| 6.1 | TEST SETUP | 24 |
| 6.2 | Limit | |
| 6.3 | TEST PROCEDURE | |
| 6.4 | RESULT: PASSED | |
| 6.5 | TEST DATA: | 27 |
| 7. SE | ECTION 15.207 REQUIREMENTS (POWERLINE CONDUCTED EMISSIONS) | 29 |

APPENDIX 1

PHOTOS OF TEST CONFIGURATION

APPENDIX 3

PHOTOS OF EUT



Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

1. GENERAL INFORMATION

Applicant : **KYE SYSTEMS CORP.**

Address : No.492, Sec. 5, Chongxin Rd., Sanchong Dist., New Taipei City 24160,

Taiwan (R.O.C.)

Manufacturer : KYE SYSTEMS CORP.

Address : No.492, Sec. 5, Chongxin Rd., Sanchong Dist., New Taipei City 24160,

Taiwan (R.O.C.)

EUT : Traveler 9000

Model Name : GM-100017/C

Model Differences : N/A

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.4-2003. The said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

FCC part 15 subpart C

Receipt Date: 12/21/2009 Final Test Date: 08/10/2011

Taipei, Taiwan Aug. 10, 2011 Alex Chou / Manager

(Place) (Date) (Signature) Designation Number: TW1030

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

1.1 DESCRIPTION OF THE TESTED SAMPLES

EUT Name : Traveler 9000 Model Number : GM-100017/C FCC ID : FSUGMZJW

Input Voltage : 1.5Vdc

Power From ☐Inside ☐Outside

□Adaptor ☑BATTERY □AC Power Source □DC Power Source

□Support Unit PC

Operate Frequency : Refer to the channel list as described below

Modulation Technique : GFSK Number of Channels : 79

Channel spacing : $\square N/A \ \square \ \underline{1} \ \underline{M}Hz$

Operating Mode : □Simplex ☑Duplex

Antenna Type : \square integral antenna: \square PCB Printing \square a dedicated antenna

Antenna gain -3dBi

| Channels | Frequencies (MHz) | Channels | Frequencies (MHz) |
|----------|-------------------|----------|-------------------|
| 0 | 2402 | 40 | 2442 |
| 1 | 2403 | 41 | 2443 |
| 2 | 2404 | 42 | 2444 |
| 3 | 2405 | 43 | 2445 |
| 4 | 2406 | 44 | 2446 |
| 5 | 2407 | 45 | 2447 |
| 6 | 2408 | 46 | 2448 |
| 7 | 2409 | 47 | 2449 |
| 8 | 2410 | 48 | 2450 |
| 9 | 2411 | 49 | 2451 |
| 10 | 2412 | 50 | 2452 |
| 11 | 2413 | 51 | 2453 |
| 12 | 2414 | 52 | 2454 |
| 13 | 2415 | 53 | 2455 |
| 14 | 2416 | 54 | 2456 |
| 15 | 2417 | 55 | 2457 |
| 16 | 2418 | 56 | 2458 |
| 17 | 2419 | 57 | 2459 |
| 18 | 2420 | 58 | 2460 |
| 19 | 2421 | 59 | 2461 |
| 20 | 2422 | 60 | 2462 |
| 21 | 2423 | 61 | 2463 |
| 22 | 2424 | 62 | 2464 |



Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

| 23 | 2425 | 63 | 2465 |
|----|------|----|------|
| 24 | 2426 | 64 | 2466 |
| 25 | 2427 | 65 | 2467 |
| 26 | 2428 | 66 | 2468 |
| 27 | 2429 | 67 | 2469 |
| 28 | 2430 | 68 | 2470 |
| 29 | 2431 | 69 | 2471 |
| 30 | 2432 | 70 | 2472 |
| 31 | 2433 | 71 | 2473 |
| 32 | 2434 | 72 | 2474 |
| 33 | 2435 | 73 | 2475 |
| 34 | 2436 | 74 | 2476 |
| 35 | 2437 | 75 | 2477 |
| 36 | 2438 | 76 | 2478 |
| 37 | 2439 | 77 | 2479 |
| 38 | 2440 | 78 | 2480 |
| 39 | 2441 | | |

2. TEST METHODOLOGY

All testing as described bellowed were performed in accordance with ANSI C63.4:2003 and FCC CFR 47 Part 15 Subpart C.

2.1 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on a wood table, which is at 0.8 m above ground plane acceding to clause 15.207 and requirements of ANSI C63.4:2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz are using CISPR Quasi-Peak / Average detectors.

Radiated Emissions

The EUT is a placed on a turn table, which is 0.8 m above ground plane. The turntable was rotated through 360 degrees to determine the position of maximum emission level. The EUT is placed at 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.



Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

2.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted

in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|---|--|---|--|
| 0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41 | 16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138 149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4 | 399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400 | 4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5 |

- 1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
- 2 Above 38.6
- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

2.3 DESCRIPTION OF TEST MODES

The EUT was tested under following modes:

Modes:

1. Continuous transmitting

Channels:

- 1. 2.402GHz (Lowest Channel)
- 2. 2.448GHz (Middle Channel)
 3. 2.480GHz (Highest Channel)



Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

2.4 DESCRIPTION OF THE SUPPORT EQUIPMENTS

Setup Diagram

See test photographs attached in appendix 1 for the actual connections between EUT and support equipment.

EUT



Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

Support Equipment

Peripherals Devices:

| OUTSIDE SUPPORT EQUIPMENT | | | | | | | |
|---------------------------|-----------|-------|------------|--------------------|------------|------------|------------|
| No. | Equipment | Model | Serial No. | FCC ID/ BSMI ID | Trade name | Data Cable | Power Cord |
| | N/A | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | INSIDE SUF | PPORT EQUIP | PMENT | | |
| No. | Equipment | Model | Serial No. | FCC ID/ BSMI ID | Trade name | Data Cable | Power Cord |
| | N/A | | | | | | |

Note: All the above equipment /cable were placed in worse case position to maximize emission signals during emission test **Grounding:** Grounding was in accordance with the manufacturer's requirement and conditions for the intended use.

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

3. TEST AND MEASUREMENT EQUIPMENT

3.1 CALIBRATION

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

3.2 EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. Other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.

TABLE 1 LIST OF TEST AND MEASUREMENT EQUIPMENT

| Instrument | Manufacturer | Model No. | Serial No. | Calibration Due Date | Note |
|--------------------|--------------|-----------------|------------|----------------------|------|
| EMC Test Receiver | R&S | ESCI | 100438 | Apr 29, 2012 | |
| Bilog Antenna | SUNOL | JB1 | A052204 | Nov 06, 2011 | |
| Turn table | EMCO | 2080 | 9508-1805 | N/A | |
| Controller | EMCO | 2090 | 9804-1328 | N/A | |
| Amplifier | G.W | GAP-801 | EF150001 | Jul.18, 2012 | |
| Amplifier | Schwarzbeck | BBV 9718 | 9718-008 | Aug. 10, 2012 | |
| Spectrum Analyzer | NEX1 | Ns-265 | 5044006 | Aug 07, 2012 | |
| RF Cable | BELDEN | RG-8/U | 28M-002 | Nov 02, 2011 | |
| RF Cable | Huber Suhner | SUCOFLEX 104 | 293864/4 | Nov. 13, 2011 | |
| Thermo-Hygro meter | WISEWIND | 4-IN-1 | 050100378 | Apr 08, 2012 | |
| Loop Antenna | TESEO | HLA6120 | 26349 | Sep.11, 2011 | |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-491 | Aug. 05, 2012 | |

X Calibration interval of instruments listed above is one year

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

4. SECTION 15.249 REQUIREMENTS (FUNDAMENTAL/ HARMONICS)

4.1 TEST SETUP

Refer to paragraph 6.1.

4.2 LIMIT

| Fundamental Frequency (MHz) | Field Strength of Fundamental (dBµV/m at 3-meter) | Detector | |
|--------------------------------|--|----------|--|
| 902 - 928 | | | |
| 2400 – 2483 | 114 | Peak | |
| 5725 - 5875 | | | |
| 902 - 928 | | | |
| 2400 – 2483 | 94 | AV | |
| 5725 - 5875 | | | |

| Fundamental Frequency (MHz) | Field Strength of Harmonics (dBµV/m at 3-meter) | Detector | |
|--------------------------------|--|----------|--|
| 902 - 928 | | | |
| 2400 – 2483 | 74 | Peak | |
| 5725 - 5875 | | | |
| 902 - 928 | | | |
| 2400 – 2483 | 54 | AV | |
| 5725 - 5875 | | | |

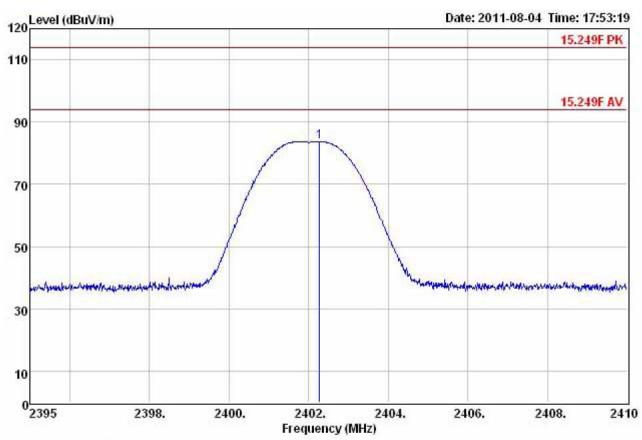
4.3 RESULT: PASSED

4.4 TEST DATA:

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

Fundamental

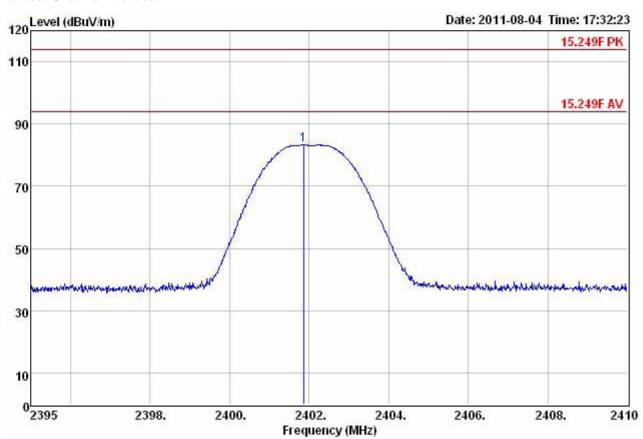
Lowest Channel-Horizontal



| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|--------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 | 2402.28 | 83.65 | 110.07 | -26.42 | -30.35 | 114.00 | Peak |

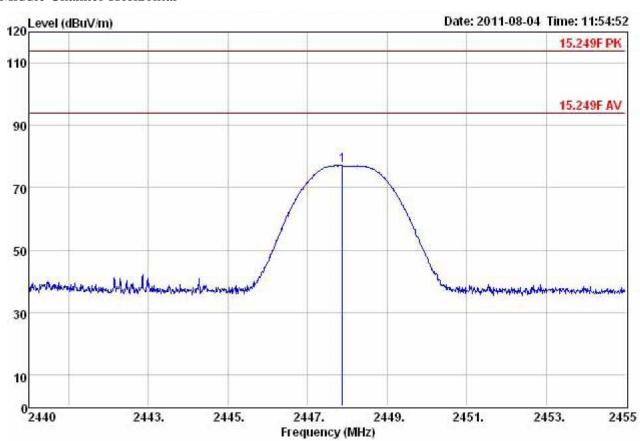
Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

Lowest Channel-Vertical



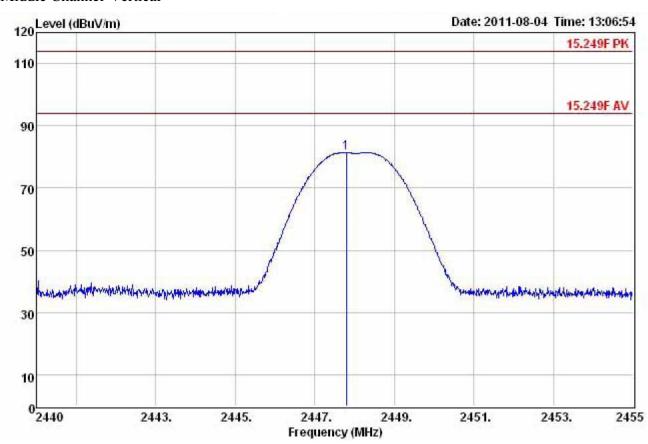
| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|--------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 | 2401.87 | 83.31 | 109.73 | -26,42 | -30.69 | 114.00 | Peak |

Middle Channel-Horizontal



| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|--------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 | 2447 89 | 77 12 | 103 35 | -26 23 | -36 88 | 114 00 | Peak |

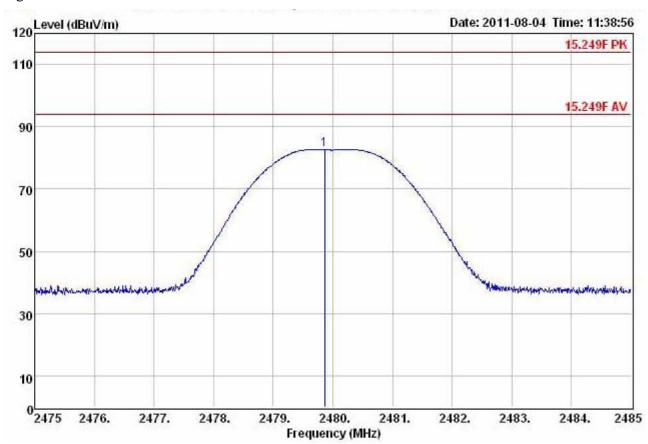
Middle Channel-Vertical



| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|-------------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | *********** |
| 1 | 2447.80 | 81.46 | 107.69 | -26.23 | -32.54 | 114.00 | Peak |



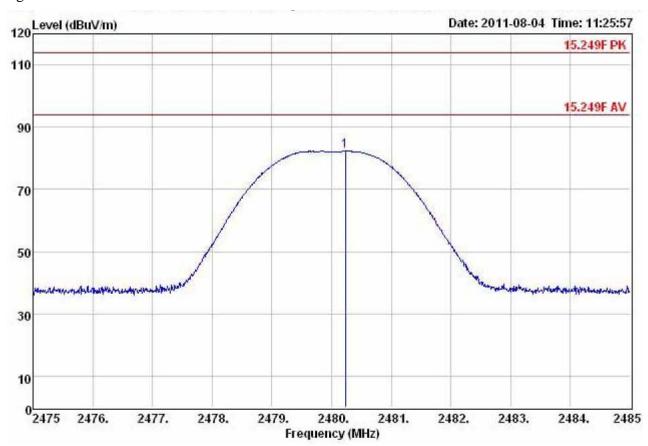
Highest Channel-Horizontal



| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|--------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 | 2479.86 | 82.70 | 108.80 | -26.10 | -31.30 | 114.00 | Peak |



Highest Channel-Vertical



| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|--------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 | 2480.23 | 82.26 | 108.36 | -26.10 | -31.74 | 114.00 | Peak |

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

Harmonics -Lowest Channel

| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
|-------------|-------------------------------|-------------------------|---------------|--------|----------------------------|---------------|--------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 2 3 | 4810.00 7210.00 9610.00 | 48.59 50.59 45.99 | 65.88 | -15.29 | -25.41 -23.41 -28.01 | 74.00 | Peak |
| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 2 3 | 4810.00 7210.00 9610.00 | 49.58 53.09 45.03 | 68.38 | -15.29 | -24.42 -20.91 -28.97 | 74,00 | Peak |

Harmonics – Middle Channel

| | Freq | Level | Read Level | | | Limit Line | Remark |
|-------------|-------------------------------|-------------------------|---------------|----------------------------|---------------|---------------|-------------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | - |
| 1 2 3 | 4892.50 7322.50 9767.50 | 42.47 44.90 44.78 | 59.71 | -21.10 -14.81 -13.47 | -29.10 | 74.00 | Peak |
| | Freq | Level | Read Level | Factor | Over Limit | | Remark |
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 2 3 | 4892.50 7322.50 9767.50 | 44.13 | 58.94 | -21.10 -14.81 -13.47 | -29.87 | 74.00 | Peak |

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

Harmonics -Highest Channel

| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
|-------------|-------------------------------|-------------------------|---------------|----------------------------|---------------|---------------|--------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 2 3 | 4960.00 7442.50 9917.50 | 37.48 43.93 45.78 | 58.52 | -20.90 -14.59 -13.67 | -30.07 | 74.00 | Peak |
| | Freq | Level | Read Level | | | Limit Line | |
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 2 3 | 4960.00 7442.50 9917.50 | 37.81 44.05 45.66 | 58.64 | -20.90 -14.59 -13.67 | -29.95 | 74.00 | Peak |

Note:

- 1. Emission level = Reading level + Correction factor
- 2. Correction factor: Antenna factor, Cable loss, PreAmp, etc.
- 3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
- 4. Measurements above 1000 MHz, Peak detector setting: use a 1 MHz RBW, a 3 MHz VBW.
- 5. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10 Hz VBW
- 6. Peak detector measurement data will represent the worst case results.
- 7. "---" denotes the data which is not available.

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

5. SECTION 15.205 REQUIREMENTS (BAND EDGE)

5.1 TEST SETUP

Refer to paragraph 6.1.

5.2 LIMIT

Restricted Bands:

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | | | |

Operation within the bands:

902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

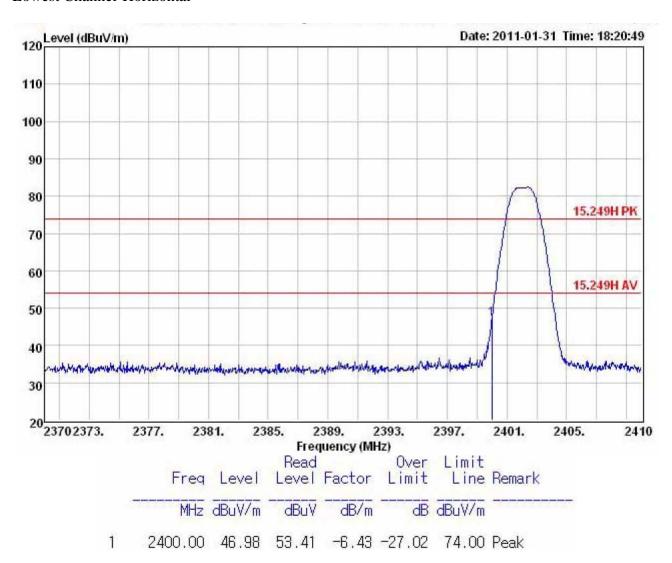
| Frequency (Hz) | Field Strength (μV/m at 3-meter) | Field Strength (dBµV/m at 3-meter) |
|----------------|-------------------------------------|---------------------------------------|
| 1.705-30 | 30 (at 30-meter) | 49.5 |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

5.3 RESULT: PASSED

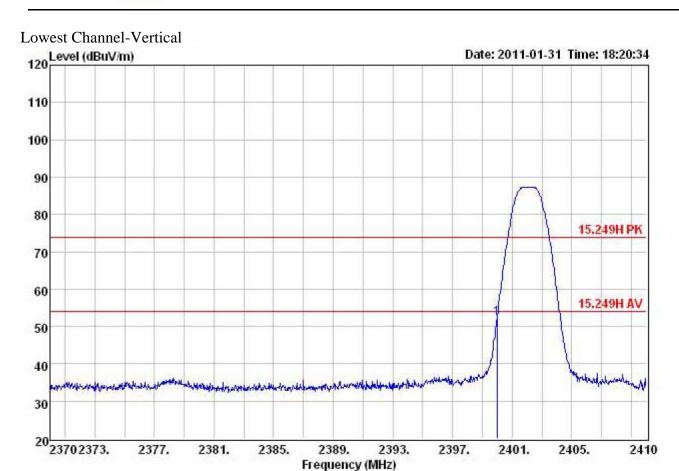
Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

5.4 TEST DATA:

Lowest Channel-Horizontal



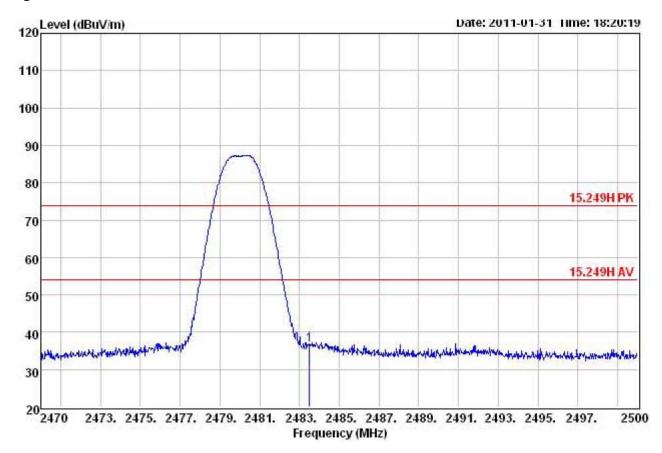
Date of Issue: Aug. 10, 2011 Report No:F9D2105-06



| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|-------------------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | - Scantantantanta |
| 1 | 2400.00 | 52.28 | 58.71 | -6.43 | -21.72 | 74.00 | Peak |

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

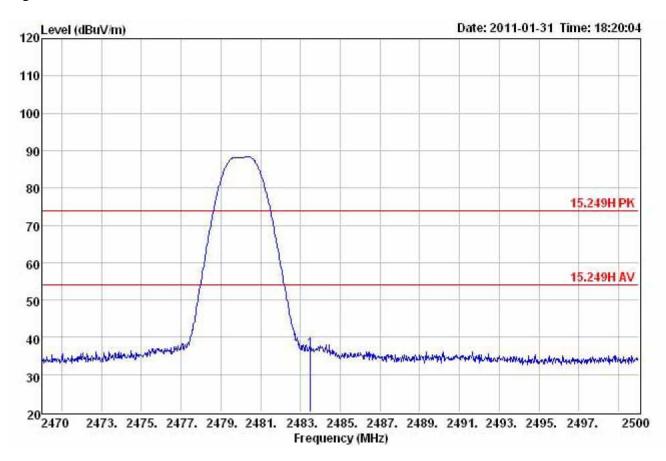
Highest Channel-Horizontal

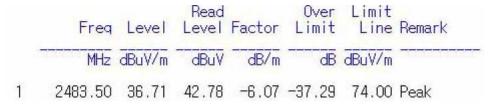


| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|-------------------------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | That date of the second |
| 1 | 2483.50 | 36.62 | 42.69 | -6.07 | -37.38 | 74.00 | Peak |

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

Highest Channel-Vertical





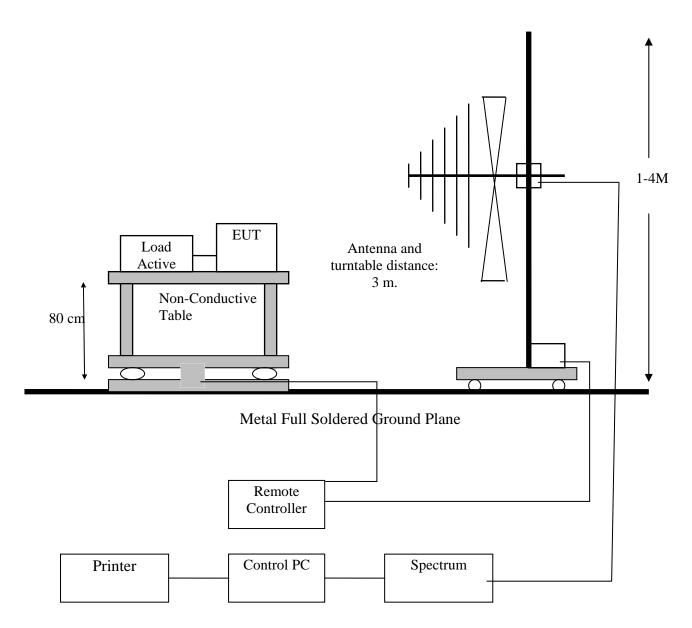
Note:

- 1. Emission level = Reading level + Correction factor
- 2. Correction factor: Antenna factor, Cable loss, PreAmp, etc.
- All emissions as described above were determining by rotating the EUT through three
 orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn
 devices.
- 4. Measurements above 1000 MHz, Peak detector setting: use a 1 MHz RBW, a 3 MHz VBW.
- 5. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10 Hz VBW.
- 6. Peak detector measurement data will represent the worst case results.

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

6. SECTION 15.209 REQUIREMENTS (GENERAL RADIATED EMISSION)

6.1 TEST SETUP





Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

6.2 LIMIT

The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209 as below.

| Frequency (MHz) | Field Strength (mV/m) | Measurement Distance (m) |
|-----------------|-----------------------|---------------------------------|
| 1.705-30 | 30 | 30 |
| 30-88 | 100* | 3 |
| 88-216 | 150* | 3 |
| 216-960 | 200* | 3 |
| Above 960 | 500* | 3 |

^{*}Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

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

| Frequency (Hz) | Field Strength (μV/m at 3-meter) | Field Strength (dBµV/m at 3-meter) |
|----------------|-------------------------------------|------------------------------------|
| 1.705-30 | 30 (at 30-meter) | 49.5 |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |



Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

6.3 TEST PROCEDURE

- 1. The EUT was placed on a turntable, which was 0.8m above ground plane.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT was set at 3m away from the receiving antenna, which was varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was maximized by changing the polarization of receiving antenna, both horizontal and vertical.
- 6. Repeated above procedures until the measurements for all frequencies are completed.

6.4 RESULT: PASSED

Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

6.5 TEST DATA:

All frequencies not described in this test report and within the range of the general radiated emission limits are not detectable significantly. The table as below is representing worst emissions found.

Highest Channel (worst emissions found)

| | Freq | Level | Read Level | Factor | Over Limit | | Remark |
|----------------------------|--|--|----------------------------------|-----------------|------------------------------------|---|------------------------------|
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 2 3 4 5 6 | 233.70 363.68 459.71 657.59 687.66 897.18 | 30.05 31.96 36.99 36.59 32.54 37.36 | 40.31 42.89 37.75 33.15 | -5.90 | -14.04 -9.01 -9.41 -13.46 | 46.00 46.00 46.00 | Peak Peak Peak Peak |
| | Freq | Level | Read Level | Factor | Over Limit | Limit Line | Remark |
| | MHz | dBuV/m | dBuV | dB/m | dB | dBuV/m | |
| 1 2 3 4 5 6 | 168.71 233.70 274.44 339.43 395.69 530.52 | 33.64 31.94 35.47 37.38 36.14 34.78 | 44.64 46.10 46.39 43.66 | -10.63 -9.01 | -14.06 -10.53 -8.62 -9.86 | 43.00 46.00 46.00 46.00 46.00 | Peak Peak Peak Peak |

Note:

- 1. Emission level = Reading level + Correction factor
- 2. Correction factor: Antenna factor, Cable loss, PreAmp, etc.
- 3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
- 4. Measurements from 9 kHz to 150 kHz, Peak detector setting: 100 Hz RBW
- 5. Measurements from 150 kHz to 30MHz, Peak detector setting: 10 kHz RBW
- 6. Measurements from 30 MHz to 1000 MHz, Peak detector setting: 100 kHz RBW
- 7. Measurements from 9 kHz to 150 kHz, CISPR Quasi-Peak detector: 200 Hz RBW



Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

- 8. Measurements from 150 kHz to 30MHz, CISPR Quasi-Peak detector: 9 kHz RBW
- 9. Measurements from 30 MHz to 1000 MHz, CISPR Quasi-Peak detector: 120 kHz RBW
- 10. Peak detector measurement data will represent the worst case results.



Date of Issue: Aug. 10, 2011 Report No:F9D2105-06

7. SECTION 15.207 REQUIREMENTS (POWERLINE CONDUCTED EMISSIONS)

The EUT is powered by the battery; therefore this test item is not applicable.



Appendix 1 PHOTOS OF TEST CONFIGURATION



Global Certification Corp. Report No. : F9D2105-06



