Certification of Compliance

CFR 47 Part 15 Subpart C

Test Report File No.: 07-IST-0117(V1.1) **Date of Issue** : April 05, 2007

Model(s) : PLAZZO

Kind of Product : RF Remote Control Unit

FCC ID : SCBPLZ

Applicant : Seoby Electronics Co, Ltd.

Address : 38-2 Anyang2-dong, Manan-gu, Anayang-city Gyeonggi-Do, Korea

Manufacturer : Seoby Electronics Co, Ltd.

Address : 38-2 Anyang2-dong, Manan-gu, Anayang-city Gyeonggi-Do, Korea

Reviewed By

Approved By

S.J.CHO / EMC Group Manager

J.H.LEE / Chief

Comment(s)

- Investigations requested : Measurement to the relevant clauses of FCC rules and regulations Part 15 Subpart C.
- The test report with appendix consists of 21 pages.
- The test result only responds to the tested sample.
- It is not allowed to copy this report even partly without the allowance of IST EMC Laboratory.
- This equipment as for has been shown to be capable of continued compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4

I assume full responsibility for accuracy and completeness of these data.



TABLE OF CONTENTS

| Table of contents | 2 |
|---|-------|
| Information of test laboratory, Environmental conditions, Power used, Product information | 3 |
| Summary | 4 |
| Equipment Under Test | 5 |
| Measurement Uncertainty Calculations | 6 |
| - Radiated Emission. | 7 |
| Radiated Emission Limits | 8 |
| Radiated Emission Result | 9-13 |
| - Bandwidth | 14 |
| - Test Equipment & Limits | 14 |
| - Test Result | 15 |
| - Transmission time | 16 |
| - Test result | 17 |
| - Antenna Requirement | 18 |
| - Test Photo of Test Setup | 19-20 |
| - EUT Photo | 21 |

Note:

INFORMATIONS OF TEST LABORATORY

EMC LABORATORY of IST Co., Ltd. (FCC Filing Lab.)

Singal-dong, Giheung-gu, Yongin-City

Kyonggi-Do, 400-19, Korea

TEL: +82 31 326 6700 FAX: +82 31 326 6797

ENVIRONMENTAL CONDITIONS

Temperature 15 $^{\circ}$ C Humidity 23 $^{\circ}$

Atmospheric pressure 1010 mbar

POWER SUPPLY SYSTEM USED

Power supply system DC 3V by Battery(Battery type(Size "AAA")

(Refer to the product information)

PRODUCT INFORMATION

| Items | Specifications |
|-----------------------|-----------------------------|
| Model Name | PLAZZO |
| Frequency | 433.92MHz |
| Channel | 1 |
| Frequency drift | ±100KHz |
| Transmitter Power | Max. +0dBm |
| Antenna | Built-in on the PCB Antenna |
| Power Supply | 2x AAA Alkaline battery |
| Modulation method | ASK/OOK |
| Communication method | Simplex |
| Stand by Current | Below 1uA |
| Transmit Current | Max. 10mA |
| Operating Temperature | 0°C ~55°C |

- EMC suppression device is not used during the test.
- Please refer to user's manual.

SUMMARY

Test Descriptions

- Radiated Emission PASS
 - Radiated Emission Result
- Bandwidth PASS
 - Test Result
- The Transmission time PASS
 - Test Result

Test Date

Begin of Testing: Mar 23, 2007 - End of Testing: Apr 4, 2007

Note:

- ■ means the test is applicable,
- □ is not applicable.

Prepared By

A

C.W.Kim / Project Engineer

| | | | Ear | uinmer | nt Under Test | |
|-------------------|---------|--------------------------|-------------------|-------------|--|------------|
| EUT : | Туре | • | L q. | uipiiici | it chact lest | |
| | | Table-Top. | | Floor-S | tanding. | |
| | | Table-Top and Floor- | -Standing(Comb | ination). | - | |
| | | Hand held | | , | | |
| Onera | ntion _ | mode of the E.U.T. : | | | | |
| - | | | ated during the n | neasuremen | t under following conditions: | |
| | P | Standby Mode | | | | |
| | • | Operational Condition | on: | ■ continu | e Transmit | |
| | | 1 | | | | |
| Config | gurati | on of the equipment u | nder test : | | | |
| Follow | ving pe | eripheral devices and in | iterface cables w | ere connec | ted during the measurement: | |
| | Equi | pment | Туре | | Brand | Serial No. |
| | RF F | Remote Control Unit | PLAZZO | | Seoby Electronics Co, Ltd. | N/A |
| To get To acti | a max | ontinuous transmission, | software was char | nged as abo | een o the EUT was pushed to trave for testing only. oved throughout the X, Y, and the X, Y, and the X, Y, and Y, and Y, and Y, Y, A, Y, and Y, Y, Y, A, | |
| | | | | Test | Set-Up | |
| | | | | Γ | | |

Radiated Emissions

EUT

5 of 21

Measurement Uncertainty Calculations

The measurement uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 and NIS 81 (1994).

| Contribution | Probability | Uncertainty (±dB) |
|--|--------------|-------------------|
| (Conducted Emissions) | Distribution | 0.15-30MHz |
| Receiver Specification | Rectangular | 1.5 |
| LISN Coupling Specification | Rectangular | 1.5 |
| Cable and Input Attenuator Calibration | Normal (k=2) | 0.5 |
| Mismatch to Reciver | U-Shaped | -0.8 / +0.7 |
| System Repeatability | Normal (k=1) | 0.2 |
| Combined Standard Uncertainty | Normal (k=2) | -1.85 / +1.71 |
| Expanded Uncertainty U | Normal (k=2) | -3.7 / +3.42 |

 $U_{c,minus} = -1.85, \ U_{c,plus} = 1.71$

U = -3.70 / +3.42 (k=2, 95.45% confidence level)

| Contribution | Probability | Uncertainties(±dB) |
|-------------------------------------|---------------|--------------------|
| (Radiated Emissions) | Distribution | 3 m |
| Antenna | | |
| Factor | Normal (k=2) | 0.9968 |
| Frequency Interpolation | Rectangular | 0.1039 |
| Height Variation | Rectangular | -2.6 / +1.5 |
| Directivity Difference | Rectangular | -1.0 / +0 |
| Phase Center Location | Rectangular | 1.0 |
| Cable Loss | Normal (k=2) | 0.5 |
| Receiver | | |
| Voltage Accuracy | Normal (k=2) | 2.0 |
| Pulse Response | Rectangular | 1.5 |
| Absolute Repetition Rate | Rectangular | 1.5 |
| Mismatch to Receiver | | |
| $ \Gamma_{antenna} = 0.33$ | U-Shaped | -1.0 / +0.9 |
| $ \Gamma_{\text{receiver}} = 0.33$ | | |
| System Repeatibility | Std Deviation | 0.5 |
| Combined Standard Uncertainty | Normal | -2.6048 / 2.2775 |
| Expanded Uncertainty U | Normal (k=2) | -5.21 / +4.55 |

 $U_{c,minus} = -2.6048, \ U_{c,plus} = 2.2775$

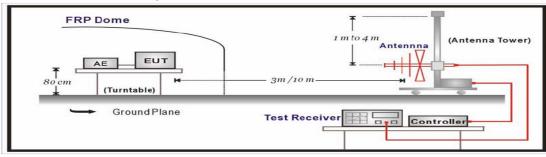
U = -5.21 / +4.55 (k=2, 95.45% confidence level)

Radiated Emissions:

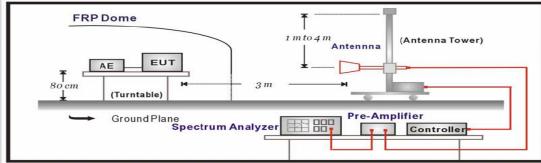
The measurement was performed over the frequency range of 30MHz to 1GHz using antenna as the input transducer to a Spectrum analyzer or a Field Intensity Meter. The measurement was made with the detector set for "quasi-peak" within a bandwidth of 120KHz.

Preliminary measurements were made at 3 meter using bi-log antennas, and spectrum analyzer to determine the frequency producing the max. emission in anechoic chamber. Appropriate precaution was taken to ensure that all emission from the EUT were maximized and investigated. The system configuration, mode of operation, turn-table azimuth and height with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30MHz to 1000MHz using bi-log antenna. Above 1GHz, linearly polarized double ridge horn antennas were used. Final measurements were made at open site with 3-meters test distance using bi-log antenna or hom antenna. The OATS have been verified in regular for its normalized site attenuation. The test equipment was placed on a wooden table. Sufficient time for the EUT, peripheral equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined by manual. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120kHz or 1MHz depending on the frequency of type of signal. The EUT, peripheral equipment and interconnecting cables were re-configured to the set-up producing the max. emission for the frequency and were placed on top of a 0.8-meter high nonmetallic 1 x 1.5 meter table. The EUT, peripheral equipment, and interconnecting cables were re-arranged and manipulated to maximize each emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation to the EUT and/or peripheral equipment and changing the polarity of the antenna, whichever determined the worst-case emission. (The bandwidth below 1GHz setting on the field strength meter is 120KHz and above 1GHz is 1MHz.)

Under 1GHz Test Setup:



Above 1GHz Test Setup:



Limits

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field Strength levels specified in the following table:

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | | | | | | |
|--|-----|------|--|--|--|--|--|
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| 30-88 | 100 | 40 | | | | | |
| 88-216 | 150 | 43.5 | | | | | |
| 216-960 | 200 | 46 | | | | | |
| Above 960 | 500 | 54 | | | | | |

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

FCC PART 15 subpart C section 15.231:

| Fundamental | Field Strength of Fundamental | Field Strength of Spurious | | |
|-----------------|-------------------------------|----------------------------|--|--|
| Frequency (MHz) | (μV/meter) | Emissions (μV/meter) | | |
| 40.66-40.70 | 2,250 | 225 | | |
| 70-130 | 1,250 | 125 | | |
| 130-174 | 1,250 to 3,250** | 125 to 375** | | |
| 174-260 | 3,750 | 375 | | |
| 260-470 | 3,750 to 12,500** | 375 to 1,250** | | |
| Above 470 | 12,500 | 1,250 | | |

^{**} linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters = 56.81818(F)-6136.3636; for the band 260-470 MHz, uV/m at 3 meters = 41.6667(F)-7083.3333. The maximum permitted unwanted emission level is 20dB below the maximum permitted Fundamental level.]

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

| Fundamental | Field Strength | | | | | | |
|-----------------|--------------------------------|------------|------------|------------|------------------------------|--|--|
| Frequency (MHz) | Fundamental Spurious Emissions | | | | Measurement Distance (meter) | | |
| | PK(dBuV/m) | AV(dBuV/m) | PK(dBuV/m) | AV(dBuV/m) | | | |
| 433 | 101.11 | 81.11 | 81.13 | 61.13 | 3 | | |

Fundamental: Average limit: uV/m at 3 meters = 41.6667(433)-7083.3333 = 11375.15 = 20log*11375.15 = 81.11

Peak limit: uV/m at 3 meters = 101.11

Spurious Emissions : Average limit : uV/m at 3 meters = 20log*1139 = 61.13

Peak limit: uV/m at 3 meters = 81.13

Radiated Emission

◆Test Equipment Used

| Name | Name Type Manufacturer | | Type Manufacturer Calibration. Da | | Calibration. Date | Serial Number |
|----------------------|------------------------|-----------------|-----------------------------------|-------------|-------------------|---------------|
| ESCI | Test Receiver | Rohde & Schwarz | May. 23, 2006 | 100373 | | |
| SPECTRUM ANALYZER | E7405A | AGILENT | Jan. 08, 2006 | MY420000092 | | |
| BICONILOG Antenna | VULB 9160 | Schwarz beck | Aug. 14, 2006 | 3047 | | |
| HORN-Antenna | 3115 | EMCO | Oct. 03, 2005 | 9012-3602 | | |
| HORN-Antenna | SAS-571 | A.H. SYSTEMS | Apr. 25, 2005 | 500 | | |
| PRE AMPLIFIER | 8449B OPT H02 | Rohde & Schwarz | Oct. 17, 2006 | 3008A0530 | | |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to RRL, KRISS, KTL and HCT.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

Peak = Reading + Corrected Factor

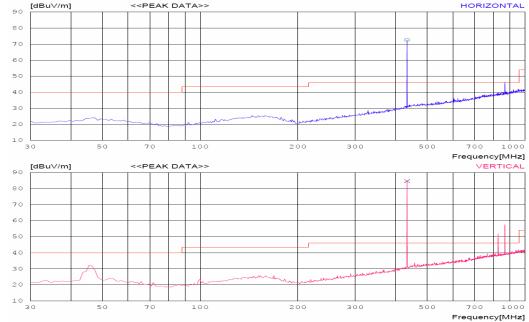
Where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)

^{2.} The calibration interval of horn ant. and loop ant. is 24 months

Radiated Emissions Result

| EUT | PLAZZO | PROBE | RF 0.3GHz~1GHz-(X Plane)H/V |
|-------|--------------------|-------|--------------------------------------|
| POWER | DC 3.3V of battery | NOTE | TX-CH 1(433.92MHz) |



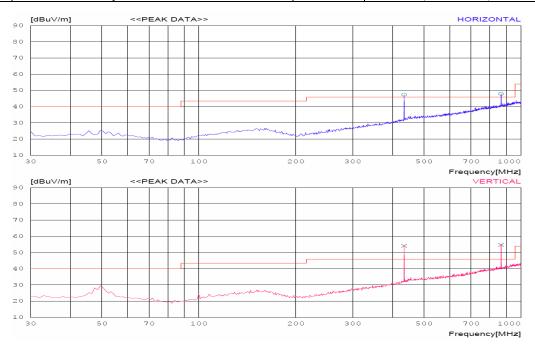
| Frequency | Reading | P | Ant. Factor | Cable Loss | AMP GAIN | Total | Limit | Margin |
|-----------|----------|--------|-------------|------------|----------|-------|--------|--------|
| MHz | dBuV | (H, V) | dB | dB | dB | dBuV | dBuV | dB |
| 433.9 | 53.4(PK) | Н | 14.8 | 3.3 | 0.0 | 71.5 | 101.11 | 29.61 |
| *433.9 | 65.4(PK) | V | 14.8 | 3.3 | 0.0 | 83.5 | 101.11 | 17.61 |
| 867.1 | 18.3(PK) | Н | 22.1 | 5.2 | 0.0 | 45.6 | 81.13 | 35.53 |
| 867.1 | 32.0(PK) | V | 22.1 | 5.2 | 0.0 | 59.3 | 81.13 | 21.83 |

| Frequency | Reading | P | Ant. Factor | Cable Loss | AMP GAIN | Total | Limit | Margin |
|-----------|---------|--------|-------------|------------|----------|-------|-------|--------|
| MHz | dBuV | (H, V) | dB | dB | dB | dBuV | dBuV | dB |
| 433.9 | 44.3 | Н | 14.8 | 3.3 | 0.0 | 62.4 | 81.11 | 18.71 |
| *433.9 | 58.6 | V | 14.8 | 3.3 | 0.0 | 76.7 | 81.11 | 4.41 |
| 867.1 | 12.7 | Н | 22.1 | 5.2 | 0.0 | 40.0 | 61.13 | 21.13 |
| 867.1 | 25.9 | V | 22.1 | 5.2 | 0.0 | 53.2 | 61.13 | 7.93 |

Note: 1. Remark "*" means that the data is the worst emission level.

- 2. Reading levels are peak and average value.
- 3. Measurement level = reading level + correct factor
- 4. To get a maximum emission level from the EUT, the EUT was moved throughout the X,Y and Z planes, but the worst data was corrected in this report.

| EUT | PLAZZO | PROBE | RF 0.3GHz~1GHz-(Y Plane)H/V |
|-------|--------------------|-------|--------------------------------------|
| POWER | DC 3.3V of battery | NOTE | TX-CH 1(433.92MHz) |



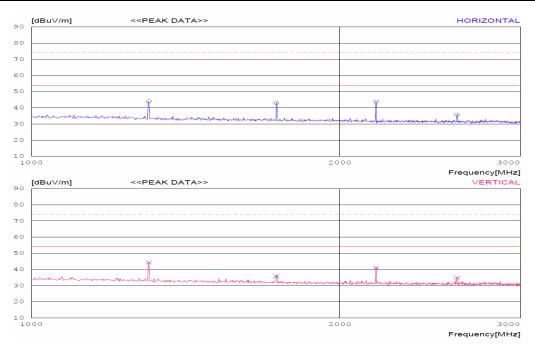
| Frequency | Reading | P | Ant. Factor | Cable Loss | AMP GAIN | Total | Limit | Margin |
|-----------|----------|--------|-------------|------------|----------|-------|--------|--------|
| MHz | dBuV | (H, V) | dB | dB | dB | dBuV | dBuV | dB |
| 433.9 | 27.0(PK) | Н | 14.8 | 3.3 | 0.0 | 45.1 | 101.11 | 56.01 |
| 433.9 | 33.7(PK) | V | 14.8 | 3.3 | 0.0 | 51.8 | 101.11 | 49.31 |
| 867.1 | 19.9(PK) | Н | 22.1 | 5.2 | 0.0 | 47.2 | 81.13 | 33.93 |
| *867.1 | 26.7(PK) | V | 22.1 | 5.2 | 0.0 | 54.0 | 81.13 | 27.13 |

| Frequency | Reading | P | Ant. Factor | Cable Loss | AMP GAIN | Total | Limit | Margin |
|-----------|----------|--------|-------------|------------|----------|-------|-------|--------|
| MHz | dBuV | (H, V) | dB | dB | dB | dBuV | dBuV | dB |
| 433.9 | 19.9(AV) | Н | 14.8 | 3.3 | 0.0 | 38.0 | 81.11 | 43.11 |
| 433.9 | 27.5(AV) | V | 14.8 | 3.3 | 0.0 | 45.6 | 81.11 | 35.51 |
| 867.1 | 12.8(AV) | Н | 22.1 | 5.2 | 0.0 | 40.1 | 61.13 | 21.03 |
| *867.1 | 19.6(AV) | V | 22.1 | 5.2 | 0.0 | 46.9 | 61.13 | 14.23 |

Note: 1. Remark "*" means that the data is the worst emission level.

- 2. Reading levels are peak and average value.
- $3.\ Measurement\ level = reading\ level + correct\ factor$
- 4. To get a maximum emission level from the EUT, the EUT was moved throughout the X,Y and Z planes, but the worst data was corrected in this report.

| EUT | PLAZZO | PROBE | RF Above 1GHz-(X Plane)H/V |
|-------|--------------------|-------|-------------------------------------|
| POWER | DC 3.3V of battery | NOTE | TX-CH 1(433.92MHz) |

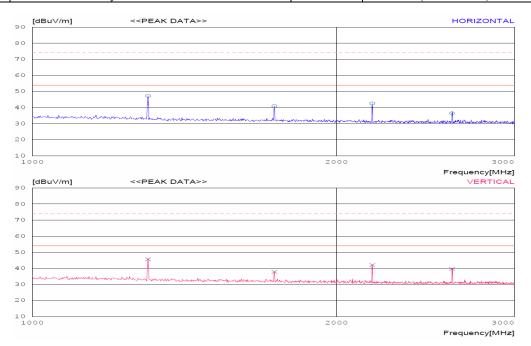


| Frequency | Reading | P | Ant. Factor | Cable Loss | AMP GAIN | Total | Limit | Margin |
|-----------|----------|--------|-------------|------------|----------|-------|-------|--------|
| MHz | dBuV(PK) | (H, V) | dB | dB | dB | dBuV | dBuV | dB |
| 1,302.0 | 44.0 | Н | 6.1 | 6.0 | 36.5 | 19.6 | 74.0 | 54.4 |
| 1,302.0 | 44.3 | V | 6.1 | 6.0 | 36.5 | 19.9 | 74.0 | 54.1 |
| 1,734.0 | 42.9 | Н | 6.1 | 6.0 | 36.5 | 18.5 | 74.0 | 55.5 |
| 1,734.0 | 35.7 | V | 6.1 | 6.0 | 36.5 | 11.3 | 74.0 | 62.7 |
| *2,170.0 | 43.8 | Н | 8.3 | 13.7 | 36.2 | 29.6 | 74.0 | 44.4 |
| 2,170.0 | 41.0 | V | 8.3 | 13.7 | 36.2 | 26.8 | 74.0 | 47.2 |
| 2,602.0 | 35.8 | Н | 8.3 | 13.7 | 36.2 | 21.6 | 74.0 | 52.4 |
| 2,602.0 | 34.8 | V | 8.3 | 13.7 | 36.2 | 20.6 | 74.0 | 53.4 |

Note: 1. Remark "*" means that the data is the worst emission level.

- 2. All reading levels are peak value.
- $3.\ Measurement\ level = reading\ level + correct\ factor$
- 4. To get a maximum emission level from the EUT, the EUT was moved throughout the X,Y, and Z planes, but the worst data was corrected in this report.

| EUT PLAZZO | | PROBE | RF Above 1GHz-(Y Plane)H/V |
|------------|--------------------|-------|-------------------------------------|
| POWER | DC 3.3V of battery | NOTE | TX-CH 1(433.92MHz) |



| Frequency | Reading | P | Ant. Factor | Cable Loss | AMP GAIN | Total | Limit | Margin |
|-----------|----------|--------|-------------|------------|----------|-------|-------|--------|
| MHz | dBuV(PK) | (H, V) | dB | dB | dB | dBuV | dBuV | dB |
| 1,302.0 | 47.2 | Н | 6.1 | 6.0 | 36.5 | 22.8 | 74.0 | 51.2 |
| 1,302.0 | 45.6 | V | 6.1 | 6.0 | 36.5 | 21.2 | 74.0 | 52.8 |
| 1,736.0 | 40.9 | Н | 6.1 | 6.0 | 36.5 | 16.5 | 74.0 | 57.5 |
| 1,736.0 | 37.8 | V | 6.1 | 6.0 | 36.5 | 13.4 | 74.0 | 60.6 |
| 2,170.0 | 42.5 | Н | 8.3 | 13.7 | 36.2 | 28.3 | 74.0 | 45.7 |
| *2,170.0 | 42.0 | V | 8.3 | 13.7 | 36.2 | 27.8 | 74.0 | 46.2 |
| 2,602.0 | 36.4 | Н | 8.3 | 13.7 | 36.2 | 22.2 | 74.0 | 51.8 |
| 2,602.0 | 39.6 | V | 8.3 | 13.7 | 36.2 | 25.4 | 74.0 | 48.6 |

Note: 1. Remark "*" means that the data is the worst emission level.

- 2. All reading levels are peak value.
- 3. Measurement level = reading level + correct factor
- 4. To get a maximum emission level from the EUT, the EUT was moved throughout the X,Y and Z planes, but the worst data was corrected in this report.

FCC PART 15.231 REQUIREMENTS

TEST Equipment

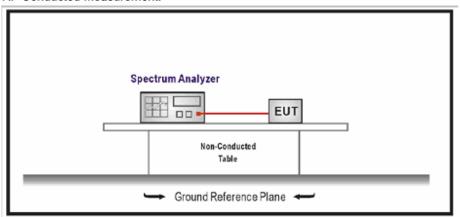
The following test equipment are used during the test:

| Name | Type | Manufacturer | Calibration. Date | Serial Number | |
|----------|---------------|-----------------|-------------------|---------------|--|
| ESCI | Test Receiver | Rohde & Schwarz | May. 23, 2006 | 100373 | |
| SPECTRUM | F7.405.4 | A CH ENT | 100.2006 | MY420000092 | |
| ANALYZER | E7405A | AGILENT | Jan. 08, 2006 | | |
| SPECTRUM | PECTRUM R3273 | ADVANTEST | Dag 11 2006 | 95090431 | |
| ANALYZER | N32/3 | ADVANIESI | Dec. 11, 2006 | 93090431 | |

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to RRL, KRISS, KTL and HCT.
 - 2. The calibration interval of horn ant. and loop ant. is 24 months

Test setup

RF Conducted Measurement:



APPLICABLE STANDARD

(c) The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

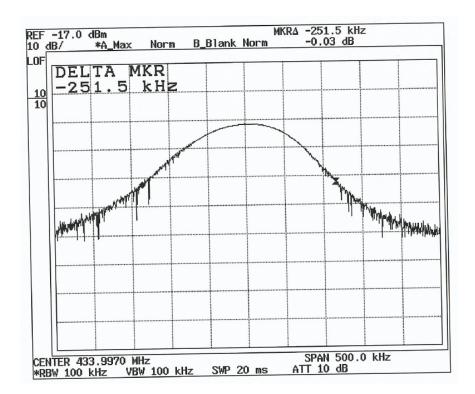
| Carrier Frequency (MHz) | Liı | Remark | |
|----------------------------|--------------|--------------|--|
| 433.92 | F(MHz)*0.25% | 1,084,800 Hz | The points 20 dB down from the modulated carrier |

Test specification

According to FCC Part 15 Subpart C paragraph 15.231©:2005

The bandwidth of the Result

| Carrier Frequency (MHz) | Bandwidth of the emission | Limit | Remark | |
|----------------------------|---------------------------|--------------|--|--|
| 433.92 | 271KHz | 1,084,800 Hz | The points 20 dB down from the modulated carrier | |



FCC PART 15.231 REQUIREMENTS

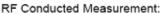
TEST Equipment

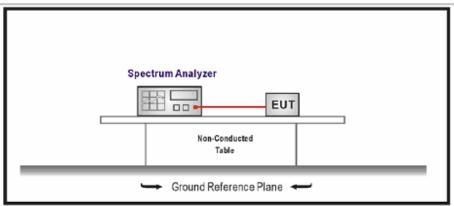
The following test equipment are used during the test:

| Name | Type | Manufacturer | Calibration. Date | Serial Number | |
|----------|---------------|-----------------|-------------------|---------------|--|
| ESCI | Test Receiver | Rohde & Schwarz | May. 23, 2006 | 100373 | |
| SPECTRUM | F7405 A | A CH ENT | I 00 2006 | MY420000092 | |
| ANALYZER | E7405A | AGILENT | Jan. 08, 2006 | | |
| SPECTRUM | R3273 | ADVANTEST | Dag 11 2006 | 95090431 | |
| ANALYZER | K32/3 | ADVANTEST | Dec. 11, 2006 | 93090431 | |

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to RRL, KRISS, KTL and HCT.
 - 2. The calibration interval of horn ant. and loop ant. is 24 months

Test setup





APPLICABLE STANDARD

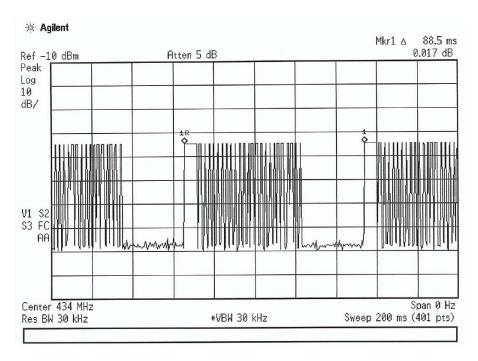
- (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.
- (4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition
- (5) Transmission of set-up information for security systems may exceed the transmission duration limits in paragraphs (a)(1) and (a)(2) of this section, provided such transmissions are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data.

Test specification

According to FCC Part 15 Subpart C paragraph 15.231©:2005

The Transmission time of the Result

According to 15.231(a)(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released



[433.9MHz]

Note: This EUT operated manually. It is deactivated within less than 5 seconds of being released.

ANTENNA REQUIREMENT

1 Standard Applicable

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

2 Antenna Construction

The antenna is permanently mounted on PCB, no consideration of replacement.

Appendix A. The Photos of Test Setup



Radiated Emissions(30MHz~1000MHz)- Y View



Radiated Emissions(1000MHz~3000MHz)- Y View

19 of 21

Appendix A. The Photos of Test Setup



Radiated Emissions(30MHz~1000MHz)- Z View



Radiated Emissions(1000MHz~3000MHz)- Z View

20 of 21

Appendix B. The Photos of Equipment Under Test







Rear View

21 of 21