**TEST REPORT No.: (5212)188-1706(A)**

# TEST REPORT

| | | | |
|---|---|---|---|
| To: | **SILVERLIT TOYS MANUFACTORY LIMITED** | To: | - |
| Attn: | Edmond Chan | Attn: | - |
| Address: | 17th Floor World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong | Address: | - |
| Fax: | 28348797 | Fax: | - |
| E-mail: | edmond@silverlit.com | E-mail: | - |
| Folder No.: | ITM-12JY032MTHS-B-B | | |

| | |
|---|---|
| Factory name: | **SILVERLIT TOYS MANUFACTORY LIMITED** |
| Location: | 17th Floor World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Product: | 2.4G Peregrine Eye RTV<br>Model No.: 84627 |

| | |
|---|---|
| Sample No: | HK120621/079 |
| Test date: | July 12, 2012<br>to<br>July 13, 2012 |
| Test Requested: | FCC Part 15 - 2011 |
| Test Method: | ANSI C63.4 - 2009 |
| FCC ID: | OYK-FCC84627 |

**The results given in this report are related to the tested specimen of the described electrical apparatus.**

**CONCLUSION: The submitted sample was found to COMPLY with requirement of FCC Part 15 Subpart C.**

Authorized Signature:

| | |
|---|---|
| Reviewed by: Keith Yeung | Approved by: Steven Tsang |
| Date: October 16, 2012 | Date: October 16, 2012 |

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## TEST REPORT No.: (5212)188-1706(A)

# Test Result Summary

| EMISSION TEST | | | |
|---|---|---|---|
| **Test requirement: FCC Part 15 - 2011** | | | |
| Test Condition | Test Method | Test Result | |
| | | Pass | Failed |
| Conducted Emission Test,<br>0.15MHz to 30MHz | ANSI C63.4 | ☒ | ☐ |
| Radiated Emission Test,<br>9kHz to 40GHz | ANSI C63.4 | ☒ | ☐ |

## Report Revision & Sample Re-submit History:

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## TEST REPORT No.: (5212)188-1706(A)

## DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|---|---|---|---|---|---|
| 1 | PC | DELL | DCSM | SC94JBX | CE & FCC DoC Approved |
| 2 | LCD MONITOR | DELL | E178WFPC | CN-0G349J64180-88T-5PYL-A00 | CE & FCC DoC Approved |
| 3 | KEYBOARD | DELL | L100 | CN0RH659658084B02NV | CE & FCC DoC Approved |
| 4 | MOUSE | DELL | MOA8BO | H0T00H92 | CE & FCC DoC Approved |
| 5 | PRINTER | EPSON | B163A | ELPK004488 | CE & FCC DoC Approved |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|---|---|
| 1 | USB Cable, Shielded, with core, 0.3m |
| 2 | VGA Cable, Shielded, with core, 0.8m |
| 3 | USB Cable, Shielded, with core, 1.5m |
| 4 | USB Cable, Shielded, without core, 1.5m |
| 5 | Parallel Cable, Shielded, without core, 1.5m |

NOTE: **All power cords of the above support units are non-shielded (1.8m).**

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## TEST REPORT No.: (5212)188-1706(A)

## Location of the test laboratory

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at :

**BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE**

No. 2106-2107, 21/F., Westin Centre,
26 Hung To Road,
Kwun Tong, Kowloon,
Hong Kong

## List of measuring equipment

**Conducted Emission**

| EQUIPMENT | MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATION DUE |
|---|---|---|---|---|
| EMI TEST RECEIVER | R&S | ESCS30 | 830986/030 | 05-JAN-2013 |
| LISN | R&S | ENV216 | 100024 | 19-JUN-2013 |

**Radiated Emission**

| EQUIPMENT | MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATION DUE |
|---|---|---|---|---|
| EMI TEST RECEIVER | R&S | ESCI | 100379 | 18-OCT-2012 |
| LOOP ANTENNA | ETS-LINDGREN | 6502 | 00102266 | 14-AUG-2013 |
| BILOG ANTENNA | SCHAFFNER | CBL6112D | 25229 | 16-SEP-2012 |
| OPEN AREA TEST SITE | BVCPS | N/A | N/A | 09-JUL-2013 |
| ANECHOIC CHAMBER | ALBATROSS | M-CDC | 80374004499B | 01-DEC-2012 |
| COAXIAL CABLE | SUHNER | RG214 | N/A | 06-OCT-2012 |

**Remarks:-**
N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

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## TEST REPORT No.: (5212)188-1706(A)

**Equipment Under Test [EUT]**
**Description of Sample:**

| | |
|---|---|
| Model Name: | 2.4G Peregrine Eye RTV |
| Model Number: | 84627 |
| Rating: | 117Va.c., 60Hz (computer) / 3.7Vd.c. (Rechargeable battery x 1) |

**Description of EUT Operation:**

The Equipment Under Test (EUT) is a **SILVERLIT TOYS MANUFACTORY LIMITED** of Remote Control Transceiver. It is a 1 switch transceiver and operating at 2410.875MHz to 2468.250MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while power on, Modulation by IC, and type is FHSS.

The transmitter has different control:

1. ON/OFF switch – ON/OFF control

**Antenna Requirement (Section 15.203)**

The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

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# Test Results

## Conducted Emissions (150kHz to 30MHz)

| | |
|---|---|
| Test Requirement: | FCC Part 15 Section 15.207 |
| Test Method: | ANSI C63.4 |
| Test Limits: | Class B |
| Test Date(s): | 2012-07-12 |
| Temperature: | 24.0 °C |
| Humidity: | 70.0 % |
| Atmospheric Pressure: | 100.3 kPa |
| Mode of Operation: | Computer charge mode |
| Tested Voltage: | 117Va.c., 60Hz (computer) |

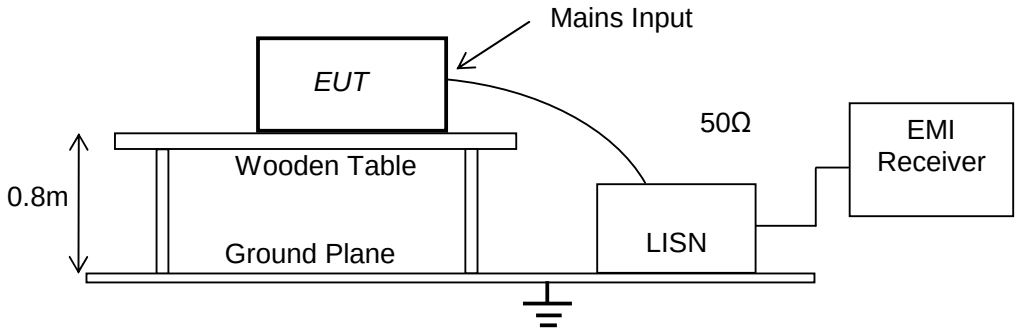
## Test Method:

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 - 2009. The EUT was setup as described in the procedures, and both lines were measured.

Initial measurements were performed in peak and average detection modes on the live line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Location: No. 603, 6/F., Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

## Test Setup: Shielding Room

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## TEST REPORT No.: (5212)188-1706(A)

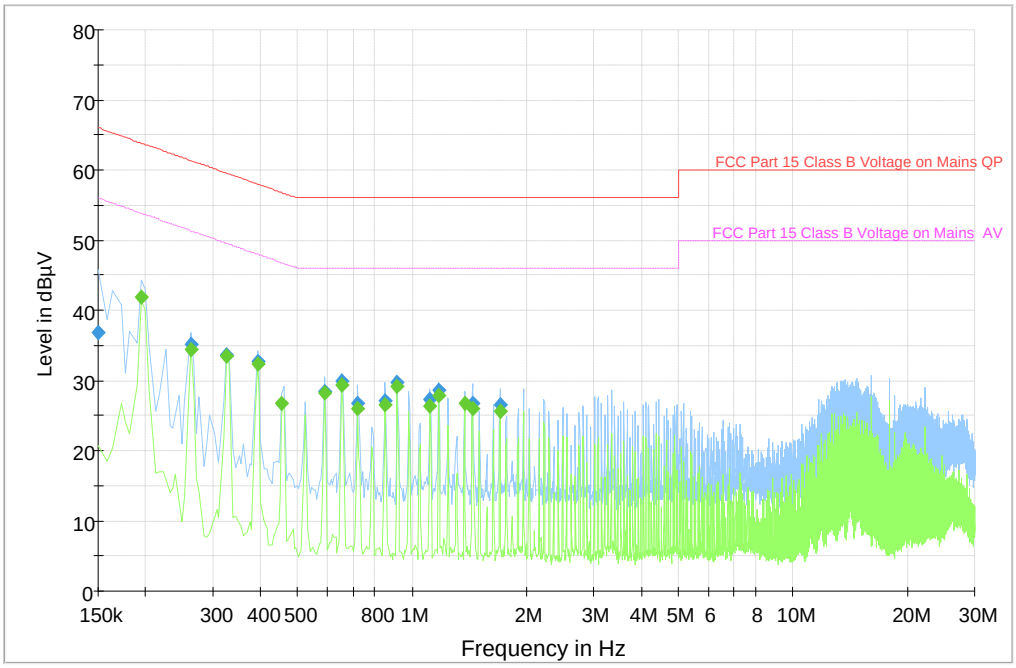
## Measurement Data: Live

## Test Result of (Computer charge mode): PASS

## Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

FCC Part 15 Class B Voltage

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## TEST REPORT No.: (5212)188-1706(A)

### Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following tables.

| Frequency (MHz) | QuasiPeak (dBµV) | Bandwidth (kHz) | Line | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|
| 0.150000 | 36.8 | 9.000 | L1 | 29.2 | 66.0 |
| 0.262500 | 35.1 | 9.000 | L1 | 26.3 | 61.4 |
| 0.325500 | 33.7 | 9.000 | L1 | 25.9 | 59.6 |
| 0.393000 | 32.7 | 9.000 | L1 | 25.3 | 58.0 |
| 0.591000 | 28.5 | 9.000 | L1 | 27.5 | 56.0 |
| 0.654000 | 30.0 | 9.000 | L1 | 26.0 | 56.0 |
| 0.721500 | 26.8 | 9.000 | L1 | 29.2 | 56.0 |
| 0.852000 | 27.1 | 9.000 | L1 | 28.9 | 56.0 |
| 0.915000 | 29.7 | 9.000 | L1 | 26.3 | 56.0 |
| 1.113000 | 27.2 | 9.000 | L1 | 28.8 | 56.0 |
| 1.176000 | 28.6 | 9.000 | L1 | 27.4 | 56.0 |
| 1.441500 | 26.8 | 9.000 | L1 | 29.2 | 56.0 |

| Frequency (MHz) | Average (dBµV) | Bandwidth (kHz) | Line | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|
| 0.195000 | 41.9 | 9.000 | L1 | 11.9 | 53.8 |
| 0.262500 | 34.5 | 9.000 | L1 | 16.9 | 51.4 |
| 0.325500 | 33.5 | 9.000 | L1 | 16.1 | 49.6 |
| 0.393000 | 32.3 | 9.000 | L1 | 15.7 | 48.0 |
| 0.456000 | 26.8 | 9.000 | L1 | 20.0 | 46.8 |
| 0.591000 | 28.2 | 9.000 | L1 | 17.8 | 46.0 |
| 0.654000 | 29.4 | 9.000 | L1 | 16.6 | 46.0 |
| 0.721500 | 25.9 | 9.000 | L1 | 20.1 | 46.0 |
| 0.195000 | 41.9 | 9.000 | L1 | 11.9 | 53.8 |

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## TEST REPORT No.: (5212)188-1706(A)

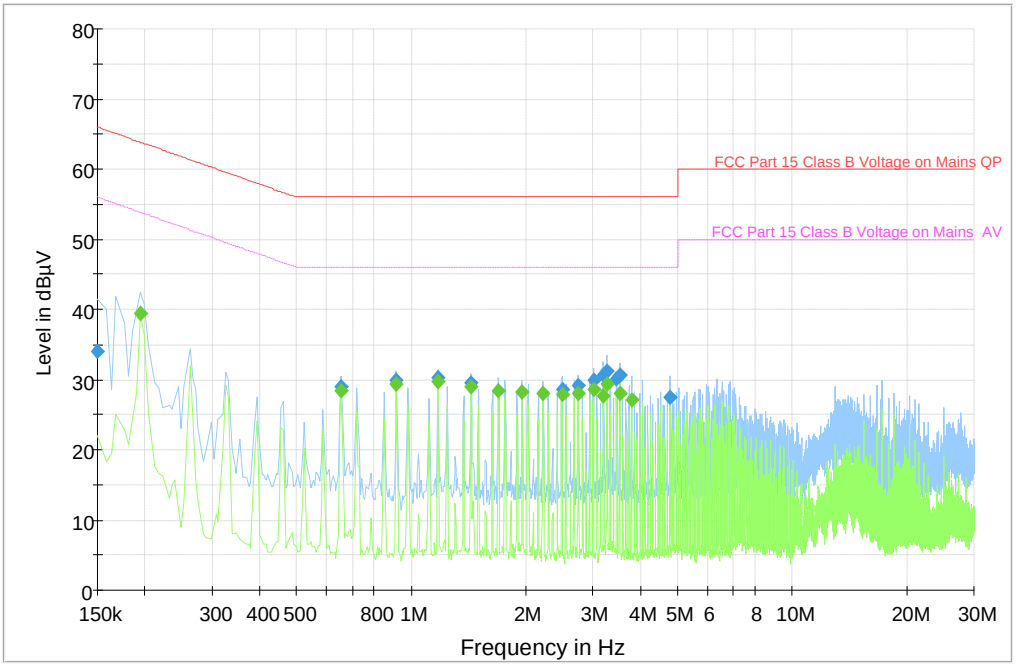
## Measurement Data: Neutral

## Test Result of (computer charge mode): PASS

## Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

FCC Part 15 Class B Voltage

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## TEST REPORT No.: (5212)188-1706(A)

### Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following tables.

| Frequency (MHz) | QuasiPeak (dBµV) | Bandwidth (kHz) | Line | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|
| 0.150000 | 34.0 | 9.000 | N | 32.0 | 66.0 |
| 0.654000 | 29.1 | 9.000 | N | 26.9 | 56.0 |
| 0.915000 | 29.9 | 9.000 | N | 26.1 | 56.0 |
| 1.176000 | 30.3 | 9.000 | N | 25.7 | 56.0 |
| 1.437000 | 29.6 | 9.000 | N | 26.4 | 56.0 |
| 2.485500 | 28.6 | 9.000 | N | 27.4 | 56.0 |
| 2.746500 | 29.1 | 9.000 | N | 26.9 | 56.0 |
| 3.007500 | 29.8 | 9.000 | N | 26.2 | 56.0 |
| 3.201000 | 30.7 | 9.000 | N | 25.3 | 56.0 |
| 3.268500 | 31.3 | 9.000 | N | 24.7 | 56.0 |
| 3.462000 | 30.1 | 9.000 | N | 25.9 | 56.0 |
| 3.529500 | 30.6 | 9.000 | N | 25.4 | 56.0 |

| Frequency (MHz) | Average (dBµV) | Bandwidth (kHz) | Line | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|
| 0.195000 | 39.4 | 9.000 | N | 14.4 | 53.8 |
| 0.654000 | 28.4 | 9.000 | N | 17.6 | 46.0 |
| 0.915000 | 29.4 | 9.000 | N | 16.6 | 46.0 |
| 1.176000 | 29.8 | 9.000 | N | 16.2 | 46.0 |
| 1.437000 | 29.0 | 9.000 | N | 17.0 | 46.0 |
| 1.698000 | 28.4 | 9.000 | N | 17.6 | 46.0 |
| 1.959000 | 28.1 | 9.000 | N | 17.9 | 46.0 |
| 2.220000 | 28.0 | 9.000 | N | 18.0 | 46.0 |

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## TEST REPORT No: (5212)206-0490(A)

## Radiated Emissions (Fundamental)

| | |
|---|---|
| Test Requirement: | FCC Part 15 Section 15.249 |
| Test Method: | ANSI C63.4 |
| Test Date(s): | 2012-07-13 |
| Temperature: | 29.0 °C |
| Humidity: | 67.0 % |
| Atmospheric Pressure: | 100.2 kPa |
| Mode of Operation: | Transmission mode |
| Tested Voltage: | 3.7Vd.c. (“Rechargeable battery” x 1) |

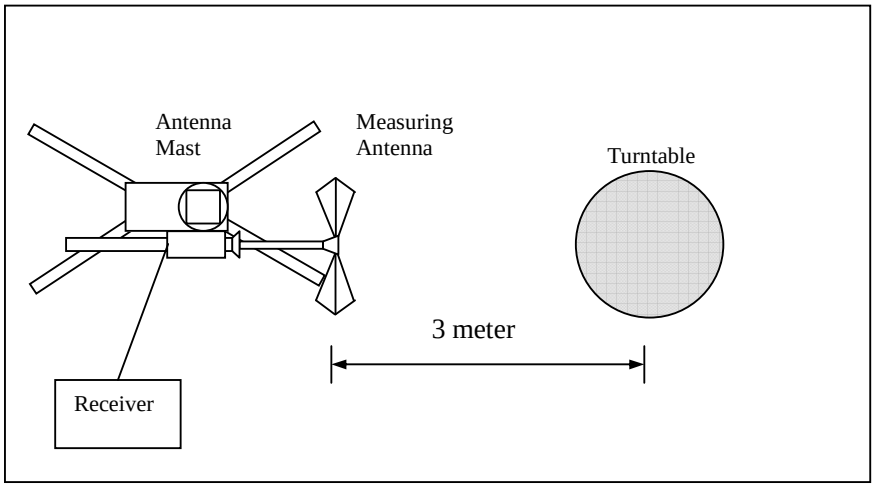
## Test Procedure:

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

## Test Setup: Open Area Test Site

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**Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:**

| Frequency Range of Fundamental [MHz] | Field Strength of Fundamental Emission (Average) [mV/m] | Field Strength of Harmonics Emission (Average) [µV/m] |
|---|---|---|
| 2400-2483.5 | 50 | 500 |

## Measurement Data

## Test Result of (Transmission mode, Lowest frequency): PASS

## Detection mode: Peak

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 2410.875 | H | -5.2 | 92.6 | 114.0 | -21.4 |
| 2410.875 | V | -5.2 | 91.1 | 114.0 | -22.9 |

## Detection mode: # Average

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 2410.875 | H | -5.2 | **77.9 | 94.0 | -16.1 |
| 2410.875 | V | -5.2 | **76.4 | 94.0 | -17.6 |

# For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.
**Duty Cycle Correction = 20Log(0.184) = -14.7 dB.

Note: Field Strength includes Antenna Factor and Cable Loss.
Receiver setting: RBW = 1MHz
VBW = 1MHz

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## TEST REPORT No: (5212)206-0490(A)

## Measurement Data

## Test Result of (Transmission mode, Middle frequency): PASS

### Detection mode: Peak

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 2437.875 | H | -4.6 | 91.2 | 114.0 | -22.8 |
| 2437.875 | V | -4.6 | 91.3 | 114.0 | -22.7 |

### Detection mode: # Average

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 2437.875 | H | -4.6 | **76.5 | 94.0 | -17.5 |
| 2437.875 | V | -4.6 | **76.6 | 94.0 | -17.4 |

## Test Result of (Transmission mode, Highest frequency): PASS

### Detection mode: Peak

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 2468.250 | H | -4.3 | 90.3 | 114.0 | -23.7 |
| 2468.250 | V | -4.3 | 88.9 | 114.0 | -25.1 |

### Detection mode: # Average

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 2468.250 | H | -4.3 | **75.6 | 94.0 | -18.4 |
| 2468.250 | V | -4.3 | **74.2 | 94.0 | -19.8 |

# For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.
**Duty Cycle Correction = 20Log(0.184) = -14.7 dB.

Note: Field Strength includes Antenna Factor and Cable Loss.
Receiver setting: RBW = 1MHz
VBW = 1MHz

## TEST REPORT No: (5212)206-0490(A)

## Radiated Emissions (Spurious Emission)

| | |
|---|---|
| Test Requirement: | FCC Part 15 Section 15.249 |
| Test Method: | ANSI C63.4 |
| Test Date(s): | 2012-07-13 |
| Temperature: | 29.0 °C |
| Humidity: | 67.0 % |
| Atmospheric Pressure: | 100.2 kPa |
| Mode of Operation: | Transmission mode |
| Tested Voltage: | 3.7Vd.c. (“Rechargeable battery” x 1) |

## Measurement Data

## Test Result of (Transmission mode, Lowest frequency): PASS

## Detection mode: Peak

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4821.750 | H | 5.5 | 67.6 | 74.0 | -6.4 |
| 7232.625 | H | 12.4 | 53.2 | 74.0 | -20.8 |
| 9643.500 | H | 15.1 | 53.5 | 74.0 | -20.5 |
| 12054.375 | H | 17.5 | 52.2 | 74.0 | -21.8 |
| 14465.250 | H | 22.1 | 52.4 | 74.0 | -21.6 |
| 16876.125 | H | 30.8 | 51.1 | 74.0 | -22.9 |
| 19287.000 | H | 31.8 | 53.7 | 74.0 | -20.3 |
| 21697.875 | H | 32.3 | 51.5 | 74.0 | -22.5 |
| 24108.750 | H | 33.7 | 53.8 | 74.0 | -20.2 |
| 26519.625 | H | 34.6 | 57.6 | 74.0 | -16.4 |

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

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## TEST REPORT No: (5212)206-0490(A)

### Measurement Data

### Test Result of (Transmission mode, Lowest frequency): PASS

### Detection mode: Peak

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4821.750 | V | 5.5 | 65.4 | 74.0 | -8.6 |
| 7232.625 | V | 12.4 | 53.5 | 74.0 | -20.5 |
| 9643.500 | V | 15.1 | 54.1 | 74.0 | -19.9 |
| 12054.375 | V | 17.5 | 53.2 | 74.0 | -20.8 |
| 14465.250 | V | 22.1 | 52.2 | 74.0 | -21.8 |
| 16876.125 | V | 30.8 | 52.0 | 74.0 | -22.0 |
| 19287.000 | V | 31.8 | 53.6 | 74.0 | -20.4 |
| 21697.875 | V | 32.3 | 52.9 | 74.0 | -21.1 |
| 24108.750 | V | 33.7 | 54.7 | 74.0 | -19.3 |
| 26519.625 | V | 34.6 | 59.4 | 74.0 | -14.6 |

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

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## TEST REPORT No: (5212)206-0490(A)

## Measurement Data

## Test Result of (Transmission mode, Lowest frequency): PASS

## Detection mode: #Average

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4821.750 | H | 5.5 | **52.9 | 54.0 | -1.1 |
| 7232.625 | H | 12.4 | **38.5 | 54.0 | -15.5 |
| 9643.500 | H | 15.1 | **38.8 | 54.0 | -15.2 |
| 12054.375 | H | 17.5 | **37.5 | 54.0 | -16.5 |
| 14465.250 | H | 22.1 | **37.7 | 54.0 | -16.3 |
| 16876.125 | H | 30.8 | **36.4 | 54.0 | -17.6 |
| 19287.000 | H | 31.8 | **39.0 | 54.0 | -15.0 |
| 21697.875 | H | 32.3 | **36.8 | 54.0 | -17.2 |
| 24108.750 | H | 33.7 | **39.1 | 54.0 | -14.9 |
| 26519.625 | H | 34.6 | **42.9 | 54.0 | -11.1 |

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4821.750 | V | 5.5 | **50.7 | 54.0 | -3.3 |
| 7232.625 | V | 12.4 | **38.8 | 54.0 | -15.2 |
| 9643.500 | V | 15.1 | **39.4 | 54.0 | -14.6 |
| 12054.375 | V | 17.5 | **38.5 | 54.0 | -15.5 |
| 14465.250 | V | 22.1 | **37.5 | 54.0 | -16.5 |
| 16876.125 | V | 30.8 | **37.3 | 54.0 | -16.7 |
| 19287.000 | V | 31.8 | **38.9 | 54.0 | -15.1 |
| 21697.875 | V | 32.3 | **38.2 | 54.0 | -15.8 |
| 24108.750 | V | 33.7 | **40.0 | 54.0 | -14.0 |
| 26519.625 | V | 34.6 | **44.7 | 54.0 | -9.3 |

# For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.
**Duty Cycle Correction = 20Log(0.184) = -14.7dB.

Note: Field Strength includes Antenna Factor and Cable Loss.
Receiver setting: RBW = 1MHz
VBW = 1MHz

## TEST REPORT No: (5212)206-0490(A)

## Measurement Data

## Test Result of (Transmission mode, Middle frequency): PASS

## Detection mode: Peak

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4875.750 | H | 5.7 | 65.2 | 74.0 | -8.8 |
| 7313.625 | H | 13.9 | 56.4 | 74.0 | -17.6 |
| 9751.500 | H | 14.0 | 53.9 | 74.0 | -20.1 |
| 12189.375 | H | 18.6 | 53.7 | 74.0 | -20.3 |
| 14627.250 | H | 23.2 | 51.6 | 74.0 | -22.4 |
| 17065.125 | H | 31.2 | 54.3 | 74.0 | -19.7 |
| 19503.000 | H | 32.0 | 52.6 | 74.0 | -21.4 |
| 21940.875 | H | 33.5 | 55.1 | 74.0 | -18.9 |
| 24378.750 | H | 34.1 | 54.9 | 74.0 | -19.1 |
| 26816.625 | H | 35.2 | 57.1 | 74.0 | -16.9 |

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4875.750 | V | 5.7 | 65.0 | 74.0 | -9.0 |
| 7313.625 | V | 13.9 | 55.7 | 74.0 | -18.3 |
| 9751.500 | V | 14.0 | 54.6 | 74.0 | -19.4 |
| 12189.375 | V | 18.6 | 56.0 | 74.0 | -18.0 |
| 14627.250 | V | 23.2 | 52.5 | 74.0 | -21.5 |
| 17065.125 | V | 31.2 | 53.1 | 74.0 | -20.9 |
| 19503.000 | V | 32.0 | 53.7 | 74.0 | -20.3 |
| 21940.875 | V | 33.5 | 54.3 | 74.0 | -19.7 |
| 24378.750 | V | 34.1 | 55.0 | 74.0 | -19.0 |
| 26816.625 | V | 35.2 | 57.9 | 74.0 | -16.1 |

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

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## TEST REPORT No: (5212)206-0490(A)

## Measurement Data

## Test Result of (Transmission mode, Middle frequency): PASS

## Detection mode: #Average

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4875.750 | H | 5.7 | **50.5 | 54.0 | -3.5 |
| 7313.625 | H | 13.9 | **41.7 | 54.0 | -12.3 |
| 9751.500 | H | 14.0 | **39.2 | 54.0 | -14.8 |
| 12189.375 | H | 18.6 | **39.0 | 54.0 | -15.0 |
| 14627.250 | H | 23.2 | **36.9 | 54.0 | -17.1 |
| 17065.125 | H | 31.2 | **39.6 | 54.0 | -14.4 |
| 19503.000 | H | 32.0 | **37.9 | 54.0 | -16.1 |
| 21940.875 | H | 33.5 | **40.4 | 54.0 | -13.6 |
| 24378.750 | H | 34.1 | **40.2 | 54.0 | -13.8 |
| 26816.625 | H | 35.2 | **42.4 | 54.0 | -11.6 |

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4875.750 | V | 5.7 | **50.3 | 54.0 | -3.7 |
| 7313.625 | V | 13.9 | **41.0 | 54.0 | -13.0 |
| 9751.500 | V | 14.0 | **39.9 | 54.0 | -14.1 |
| 12189.375 | V | 18.6 | **41.3 | 54.0 | -12.7 |
| 14627.250 | V | 23.2 | **37.8 | 54.0 | -16.2 |
| 17065.125 | V | 31.2 | **38.4 | 54.0 | -15.6 |
| 19503.000 | V | 32.0 | **39.0 | 54.0 | -15.0 |
| 21940.875 | V | 33.5 | **39.6 | 54.0 | -14.4 |
| 24378.750 | V | 34.1 | **40.3 | 54.0 | -13.7 |
| 26816.625 | V | 35.2 | **43.2 | 54.0 | -10.8 |

# For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.
**Duty Cycle Correction = 20Log(0.184) = -14.7dB.

Note: Field Strength includes Antenna Factor and Cable Loss.
Receiver setting: RBW = 1MHz
VBW = 1MHz

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## TEST REPORT No: (5212)206-0490(A)

### Measurement Data

### Test Result of (Transmission mode, Highest frequency): PASS

### Detection mode: Peak

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4936.500 | H | 5.7 | 63.2 | 74.0 | -10.8 |
| 7404.750 | H | 14.7 | 57.3 | 74.0 | -16.7 |
| 9873.000 | H | 12.9 | 53.3 | 74.0 | -20.7 |
| 12341.250 | H | 19.5 | 55.1 | 74.0 | -18.9 |
| 14809.500 | H | 25.1 | 55.9 | 74.0 | -18.1 |
| 17277.750 | H | 33.4 | 54.1 | 74.0 | -19.9 |
| 19746.000 | H | 34.7 | 55.8 | 74.0 | -18.2 |
| 2244.250 | H | 35.6 | 55.6 | 74.0 | -18.4 |
| 24682.500 | H | 36.8 | 57.3 | 74.0 | -16.7 |
| 27150.750 | H | 37.5 | 59.9 | 74.0 | -14.1 |

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4936.500 | V | 5.7 | 59.7 | 74.0 | -14.3 |
| 7404.750 | V | 14.7 | 57.0 | 74.0 | -17 |
| 9873.000 | V | 12.9 | 53.1 | 74.0 | -20.9 |
| 12341.250 | V | 19.5 | 54.7 | 74.0 | -19.3 |
| 14809.500 | V | 25.1 | 58.7 | 74.0 | -15.3 |
| 17277.750 | V | 33.4 | 55.1 | 74.0 | -18.9 |
| 19746.000 | V | 34.7 | 56.4 | 74.0 | -17.6 |
| 2244.250 | V | 35.6 | 56.4 | 74.0 | -17.6 |
| 24682.500 | V | 36.8 | 58.7 | 74.0 | -15.3 |
| 27150.750 | V | 37.5 | 60.9 | 74.0 | -13.1 |

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

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## TEST REPORT No: (5212)206-0490(A)

## Measurement Data

## Test Result of (Transmission mode, Highest frequency): PASS

## Detection mode: #Average

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4936.500 | H | 5.7 | **48.5 | 54.0 | -5.5 |
| 7404.750 | H | 14.7 | **42.6 | 54.0 | -11.4 |
| 9873.000 | H | 12.9 | **38.6 | 54.0 | -15.4 |
| 12341.250 | H | 19.5 | **40.4 | 54.0 | -13.6 |
| 14809.500 | H | 25.1 | **41.2 | 54.0 | -12.8 |
| 17277.750 | H | 33.4 | **39.4 | 54.0 | -14.6 |
| 19746.000 | H | 34.7 | **41.1 | 54.0 | -12.9 |
| 2244.250 | H | 35.6 | **40.9 | 54.0 | -13.1 |
| 24682.500 | H | 36.8 | **42.6 | 54.0 | -11.4 |
| 27150.750 | H | 37.5 | **45.2 | 54.0 | -8.8 |

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 4936.500 | V | 5.7 | **45.0 | 54.0 | -9.0 |
| 7404.750 | V | 14.7 | **42.3 | 54.0 | -11.7 |
| 9873.000 | V | 12.9 | **38.4 | 54.0 | -15.6 |
| 12341.250 | V | 19.5 | **40.0 | 54.0 | -14.0 |
| 14809.500 | V | 25.1 | **44.0 | 54.0 | -10.0 |
| 17277.750 | V | 33.4 | **40.4 | 54.0 | -13.6 |
| 19746.000 | V | 34.7 | **41.7 | 54.0 | -12.3 |
| 2244.250 | V | 35.6 | **41.7 | 54.0 | -12.3 |
| 24682.500 | V | 36.8 | **44.0 | 54.0 | -10.0 |
| 27150.750 | V | 37.5 | **46.2 | 54.0 | -7.8.0 |

# For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.
**Duty Cycle Correction = 20Log(0.184) = -14.7dB.

Note: Field Strength includes Antenna Factor and Cable Loss.
Receiver setting: RBW = 1MHz
VBW = 1MHz

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## TEST REPORT No: (5212)206-0490(A)

## Radiated Emissions (30MHz – 2.4GHz)

| | |
|---|---|
| Test Requirement: | FCC Part 15 Section 15.209 |
| Test Method: | ANSI C63.4 |
| Test Date(s): | 2012-07-13 |
| Temperature: | 29.0 °C |
| Humidity: | 67.0 % |
| Atmospheric Pressure: | 100.2 kPa |
| Mode of Operation: | On mode / Remote charge mode / Computer charge mode |
| Tested Voltage: | 117Va.c., 60Hz (computer)<br>3.7Vd.c. ("Rechargeable battery" x 1) |

**Limits for Radiated Emissions [FCC 47 CFR 15.209]:**

| Frequency Range [MHz] | Quasi-Peak Limits [μV/m] |
|---|---|
| 1.705-30 | 300 |
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above960 | 500 |

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## TEST REPORT No: (5212)206-0490(A)

## Measurement Data

## Test Result of (On mode, battery operated): PASS

## Detection mode: Quasi-Peak

| Frequency (MHz) | Polarity (H/V) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|
| 288.28 | H | 23.7 | 46.0 | -22.3 |
| 378.40 | H | 37.1 | 46.0 | -8.9 |
| 404.64 | H | 33.5 | 46.0 | -12.5 |
| 413.40 | H | 32.6 | 46.0 | -13.4 |
| 587.04 | H | 30.9 | 46.0 | -15.1 |
| 709.44 | H | 31.2 | 46.0 | -14.8 |

| Frequency (MHz) | Polarity (H/V) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|
| 42.26 | V | 29.7 | 40.0 | -10.3 |
| 110.28 | V | 22.8 | 43.5 | -20.7 |
| 279.28 | V | 26.1 | 46.0 | -19.9 |
| 404.64 | V | 28.5 | 46.0 | -17.5 |
| 490.96 | V | 27.2 | 46.0 | -18.8 |
| 647.60 | V | 30.1 | 46.0 | -15.9 |

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz

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## TEST REPORT No: (5212)206-0490(A)

## Measurement Data

## Test Result of (Remote charge mode, battery operated): PASS

## Detection mode: Quasi-Peak

| Frequency (MHz) | Polarity (H/V) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|
| 51.64 | H | 27.6 | 40.0 | -12.4 |
| 68.28 | H | 26.4 | 40.0 | -13.6 |
| 144.28 | H | 25.8 | 43.5 | -17.7 |
| 241.96 | H | 22.0 | 46.0 | -24.0 |
| 388.16 | H | 26.1 | 46.0 | -19.9 |
| 587.52 | H | 29.7 | 46.0 | -16.3 |

| Frequency (MHz) | Polarity (H/V) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|
| 51.64 | V | 27.1 | 40.0 | -12.9 |
| 68.28 | V | 26.2 | 40.0 | -13.8 |
| 144.28 | V | 21.6 | 43.5 | -21.9 |
| 241.96 | V | 22.5 | 46.0 | -23.5 |
| 388.16 | V | 26.9 | 46.0 | -19.1 |
| 587.52 | V | 31.2 | 46.0 | -14.8 |

Note: Field Strength includes Antenna Factor and Cable Loss.

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## TEST REPORT No: (5212)206-0490(A)

## Measurement Data

## Test Result of (Computer charge mode, computer operated): PASS

## Detection mode: Quasi-Peak

| Frequency (MHz) | Polarity (H/V) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|
| 55.00 | H | 27.3 | 40.0 | -12.7 |
| 118.40 | H | 24.5 | 43.5 | -19.0 |
| 145.32 | H | 20.6 | 43.5 | -22.9 |
| 242.84 | H | 22.4 | 46.0 | -23.6 |
| 361.76 | H | 25.1 | 46.0 | -20.9 |
| 497.04 | H | 28.3 | 46.0 | -17.7 |

| Frequency (MHz) | Polarity (H/V) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|
| 55.00 | V | 27.1 | 40.0 | -12.9 |
| 118.40 | V | 25.2 | 43.5 | -18.3 |
| 145.32 | V | 21.2 | 43.5 | -22.3 |
| 242.84 | V | 22.7 | 46.0 | -23.3 |
| 361.76 | V | 25.6 | 46.0 | -20.4 |
| 497.04 | V | 27.9 | 46.0 | -18.1 |

Note: Field Strength includes Antenna Factor and Cable Loss.

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## TEST REPORT No: (5212)206-0490(A)

## Frequency range of Fundamental Emission

| | |
|---|---|
| Test Requirement: | FCC 47 CFR 15.249 |
| Test Method: | ANSI C63.4:2009 (Section 13.1.7) |
| Test Date(s): | 2012-07-13 |
| Temperature: | 28.0 °C |
| Humidity: | 65.0 % |
| Atmospheric Pressure: | 100.2 kPa |
| Mode of Operation: | Transmission mode |
| Tested Voltage: | 3.7Vd.c. (“rechargeable battery” x 1) |

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

**Limits for Frequency range of Fundamental Emission:**

| Frequency [MHz] | FCC Limits [MHz] |
|---|---|
| 2410.875 – 2468.250 | 2400 – 2483.5 |

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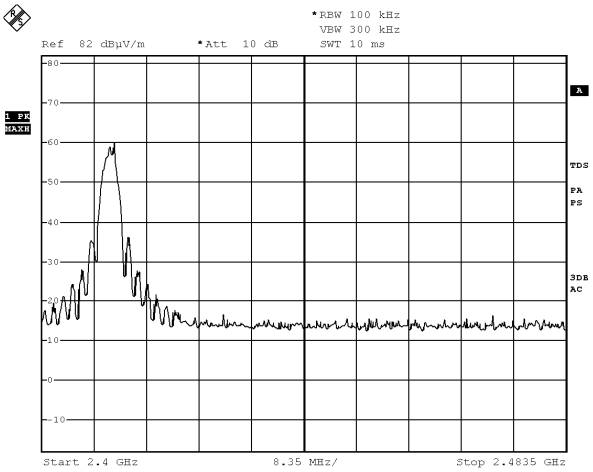
## TEST REPORT No: (5212)206-0490(A)

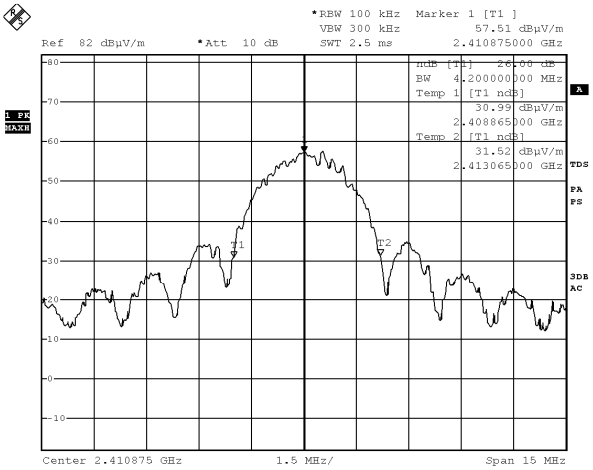
## Measurement Data :

### Test Result of Frequency Range of Fundamental Emission: PASS
### Lowest Frequency – 2410.875MHz




Date: 13.JUL.2012 11:28:05

### Test Result of 26dB Bandwidth of Fundamental Emission: PASS
### Lowest Frequency – 2410.875MHz




Date: 13.JUL.2012 11:30:24

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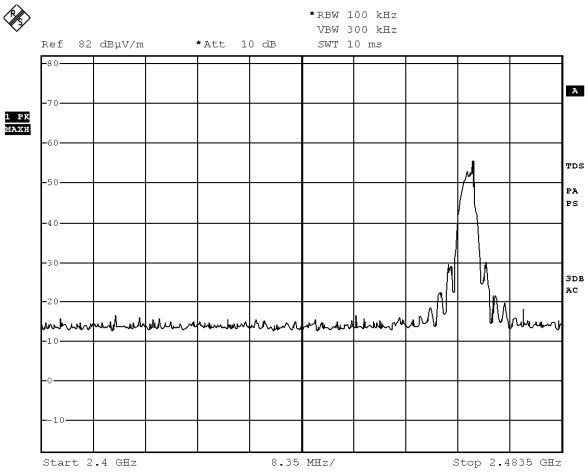
## TEST REPORT No: (5212)206-0490(A)

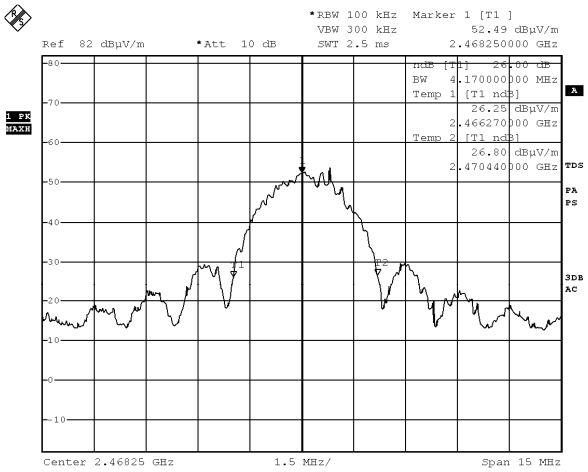
## Measurement Data :

### Test Result of Frequency Range of Fundamental Emission: PASS
### Highest Frequency – 2468.250MHz




Date: 13.JUL.2012 11:41:46

### Test Result of 26dB Bandwidth of Fundamental Emission: PASS
### Highest Frequency – 2468.250MHz




Date: 13.JUL.2012 11:42:13

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**Duty Cycle Correction During 100msec:**

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 1 pulse (18.4msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered (18.4) per 100msec = 18.4% duty cycle.

Remarks:

Duty Cycle Correction = 20Log(0.184) = -14.7dB

The following figures [Figure A] show the characteristics of the pulse train for one of these functions.

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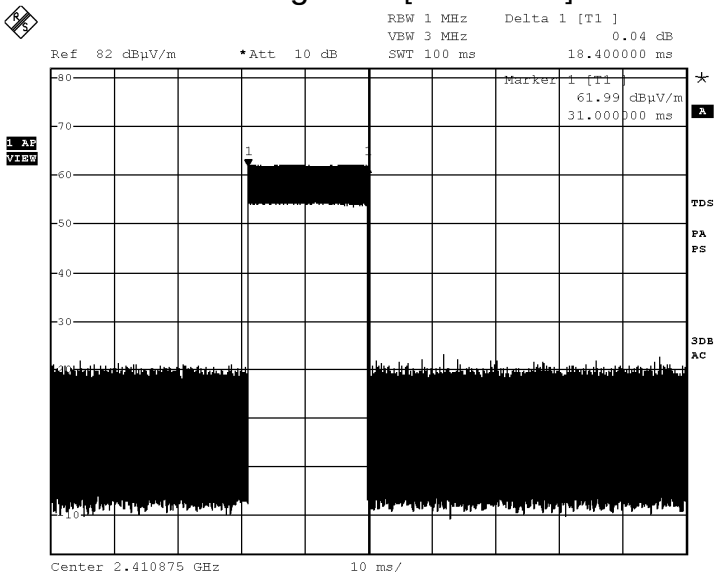
## TEST REPORT No: (5212)206-0490(A)

## Measurement Data :

Figure A [Pulse Train]




Date: 13.JUL.2012 11:32:25

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## TEST REPORT No: (5212)206-0490(A)

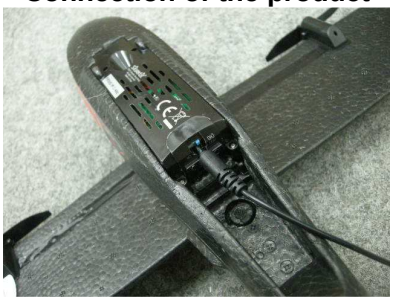
### Photographs of EUT

**Top View of the product**

**Bottom View of the product**

**Bottom View of the product**

**Connection of the product**



**Connection of the product**

**Cable**

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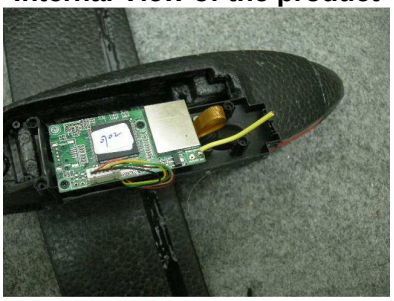
## TEST REPORT No: (5212)206-0490(A)

### Photographs of EUT

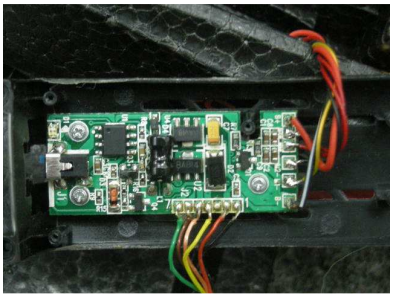
**Internal View of the product**



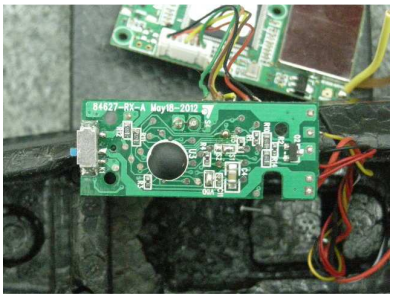
**Internal View of the product**

**Inner Circuit Top View**

**Inner Circuit Bottom View**



**Inner Circuit View**



**Antenna**

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## Measurement of Conducted Emission Test Set Up

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## Measurement of Radiated Emission Test Set Up

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## Measurement of Radiated Emission Test Set Up

******* End of Report *******

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