



## STC Test Report

Date : 2013-05-27

Page 1 of 14

No. : HM168429

**Applicant (KMA001):** K-MARK INDUSTRIAL LIMITED  
FLAT A, 7/F., MAI ON IND. BLDG., 17-21 KUNG YIP STREET, KWAI CHUNG, HONG KONG

**Manufacturer:** K-MARK INDUSTRIAL LIMITED  
FLAT A, 7/F., MAI ON IND. BLDG., 17-21 KUNG YIP STREET, KWAI CHUNG, HONG KONG

**Description of Sample(s):** Submitted sample(s) said to be  
Product: Identiflyer Lyric  
Brand Name: Identiflyer  
Model Number: IF04  
FCC ID: VEPIDF-LYRIC

**Date Sample(s) Received:** 2013-05-02

**Date Tested:** 2013-05-13

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2012 and ANSI C63.4:2009 for FCC Certification.

**Conclusion(s):** The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

**Remark(s):** ---

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Dr. LEE Kam Chuen  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

**The Hong Kong Standards and Testing Centre Ltd.**

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## STC Test Report

Date : 2013-05-27

Page 2 of 14

No. : HM168429

### **CONTENT:**

|         |                |
|---------|----------------|
| Cover   | Page 1 of 14   |
| Content | Page 2-3 of 14 |

### **1.0 General Details**

|     |                              |              |
|-----|------------------------------|--------------|
| 1.1 | Equipment Under Test [EUT]   | Page 4 of 14 |
| 1.2 | Description of EUT Operation | Page 4 of 14 |
| 1.3 | Date of Order                | Page 4 of 14 |
| 1.4 | Submitted Sample             | Page 4 of 14 |
| 1.5 | Test Duration                | Page 4 of 14 |
| 1.6 | Country of Origin            | Page 4 of 14 |

### **2.0 Technical Details**

|     |                                    |              |
|-----|------------------------------------|--------------|
| 2.1 | Investigations Requested           | Page 5 of 14 |
| 2.2 | Test Standards and Results Summary | Page 5 of 14 |

### **3.0 Test Results**

|     |          |                 |
|-----|----------|-----------------|
| 3.1 | Emission | Page 6-11 of 14 |
|-----|----------|-----------------|

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## **STC Test Report**

Date : 2013-05-27

Page 3 of 14

No. : HM168429

### **Appendix A**

List of Measurement Equipment

Page 12 of 14

### **Appendix B**

Photographs

Page 13-14 of 14

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## **STC Test Report**

Date : 2013-05-27

Page 4 of 14

No. : HM168429

### **1.0 General Details**

#### **1.1 Equipment Under Test [EUT] Description of Sample(s)**

Submitted sample(s) said to be

Product: IdentiFlyer Lyric

Manufacturer: K-MARK INDUSTRIAL LIMITED

FLAT A, 7/F., MAI ON IND. BLDG., 17-21 KUNG YIP STREET,  
KWAI CHUNG, HONG KONG

Brand Name: Identiflyer

Model Number: IF04

Input Voltage: 4.5Vd.c. ("AAA" size battery x 3)

#### **1.2 Description of EUT Operation**

The Equipment Under Test (EUT) is a K-MARK INDUSTRIAL LIMITED. IdentiFlyer Lyric is radio equipment with a contactless card interface (13.56MHz with an internal antenna).

#### **1.3 Date of Order**

2013-05-02

#### **1.4 Submitted Sample(s):**

1 Sample

#### **1.5 Test Duration**

2013-05-13

#### **1.6 Country of Origin**

China

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## STC Test Report

Date : 2013-05-27

Page 5 of 14

No. : HM168429

### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2012 Regulations and ANSI C63.4:2009 for FCC Certification.

#### **2.2 Test Standards and Results Summary Tables**

| EMISSION<br>Results Summary                               |   |                 |                     |                                     |                          |                          |
|---|---|-----------------|---------------------|-------------------------------------|--------------------------|--------------------------|
| Test Condition  | Test Requirement                            | Test Method     | Class /<br>Severity | Test Result                         |                          |                          |
|   |   |                 |                     | Pass                                | Fail                     | N/A                      |
| Field Strength of<br>Fundamental &<br>Harmonics Emissions | FCC 47CFR<br>15.225(a)                      | ANSI C63.4:2009 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Frequency Tolerance                                       | FCC 47CFR<br>15.225(e)                      | ANSI C63.4:2009 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emissions  | FCC 47CFR 15.225<br>(d)<br>FCC 47CFR 15.209 | ANSI C63.4:2009 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| In-band spurious field<br>strength                        | FCC 47CFR 15.225<br>(a)(b)(c)               | ANSI C63.4:2009 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Note: N/A - Not Applicable

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Date : 2013-05-27

Page 6 of 14

No. : HM168429

### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Radiated Emissions**

|                    |                  |
|--------------------|------------------|
| Test Requirement:  | FCC 47CFR 15.225 |
| Test Method:       | ANSI C63.4:2009  |
| Test Date:         | 2013-05-13       |
| Mode of Operation: | Tx on mode       |

#### **Test Method:**

The sample was placed 0.8m above the ground plane on a standard radiated emission test site. Measurements in both horizontal and vertical polarities were performed. 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, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

Remark: 3 orthogonal axis apply to hand-held device only.

\*: Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

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## STC Test Report

Date : 2013-05-27

Page 7 of 14

No. : HM168429

### **Spectrum Analyzer Setting:**

9KHz – 30MHz (Pk & Av)

RBW: 10kHz  
VBW: 30kHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

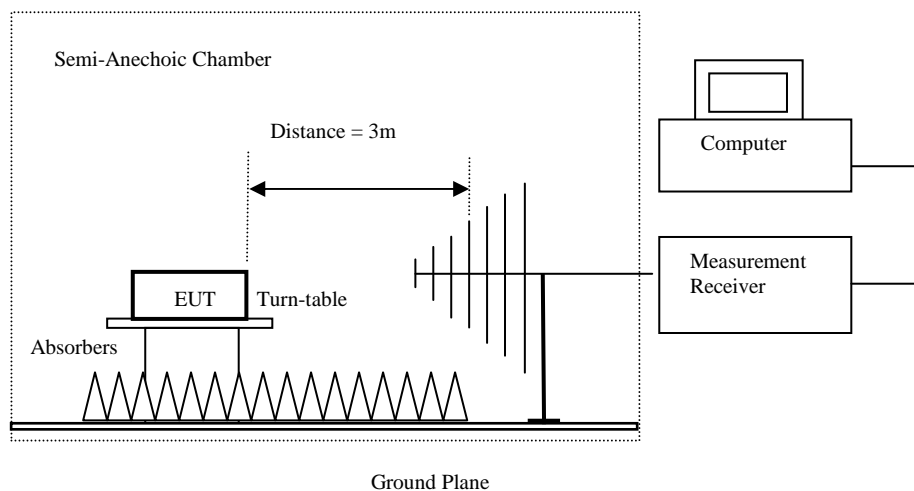
30MHz – 1GHz (QP)

RBW: 120kHz  
VBW: 120kHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

Above 1GHz (Pk & Av)

RBW: 3MHz  
VBW: 3MHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

### **Test Setup:**



Absorbers placed on top of the ground plane are for measurements above 1000MHz only.

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## STC Test Report

Date : 2013-05-27

Page 8 of 14

No. : HM168429

### Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.225 (a)]:

| Frequency Range<br>[MHz] | Field Strength           | Field Strength             |
|--------------------------|--------------------------|----------------------------|
|                          | [ $\mu$ V/m at 3 meters] | [dB $\mu$ V/m at 3 meters] |
| 13.553-13.567            | 1,584,893.0              | 124                        |

### Results of Tx on mode (9kHz – 30MHz): Pass

| Field Strength of Fundamental Emissions<br>Peak Value @ 3m |                           |                              |                             |                           |               |                     |
|--|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Frequency<br>MHz   | Measured<br>Level<br>dBuV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBuV/m | Field<br>Strength<br>uV/m | Limit<br>uV/m | E-Field<br>Polarity |
| 13.57  | 32.1                      | 10.2                         | 42.3                        | 130.3                     | 15,848,932.0  | Horizontal          |

| Field Strength of Fundamental Emissions<br>Average Value @ 3m |                           |                              |                             |                           |               |                     |
|---|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Frequency<br>MHz  | Measured<br>Level<br>dBuV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBuV/m | Field<br>Strength<br>uV/m | Limit<br>uV/m | E-Field<br>Polarity |
| 13.57   | 28.7                      | 10.2                         | 38.9                        | 88.1                      | 1,584,893.0   | Horizontal          |

#### Remarks:

Measurement were performed at 3m and the limit was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) .

3m to 30m Extrapolation factor =  $40 \log_{10}(d_1/d_2) = 40 \log_{10}(3/30) = 40\text{dB}$

3m limit = 30m limit + extrapolation factor

= 84dBuV/m + 40dB

= 124 dBuV/m

= 1,584,893.0 $\mu$ V/m

\*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 9kHz to 30MHz 1.8dB  
30MHz to 1GHz 5.2dB  
1GHz to 18GHz 5.1dB

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## STC Test Report

Date : 2013-05-27

Page 9 of 14

No. : HM168429

### Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

| Frequency Range<br>[MHz] | Quasi-Peak Limits<br>[ $\mu\text{V/m}$ ] |
|--------------------------|--|
| 0.009-0.490              | 2400/F (kHz)                             |
| 0.490-1.705              | 24000/F (kHz)                            |
| 1.705-30                 | 30                                       |
| 30-88                    | 100                                      |
| 88-216                   | 150                                      |
| 216-960                  | 200                                      |
| Above960                 | 500                                      |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### Results of Tx on mode (30MHz – 1000MHz): Pass

| Field Strength of Spurious Emissions<br>Quasi-Peak Value |   |                                       |   |                                      |                          |                     |
|--|---|---------------------------------------|---|--------------------------------------|--------------------------|---------------------|
| Frequency<br>MHz   | Measured<br>Level<br>$\text{dB}\mu\text{V}$ | Correction<br>Factor<br>$\text{dB/m}$ | Field<br>Strength<br>$\text{dB}\mu\text{V/m}$ | Field<br>Strength<br>$\mu\text{V/m}$ | Limit<br>$\mu\text{V/m}$ | E-Field<br>Polarity |
| 197.80   | 17.7  | 11.7                                  | 29.4  | 29.5                                 | 150.0                    | Horizontal          |
| 297.20   | 7.7   | 15.6                                  | 23.3  | 14.6                                 | 200.0                    | Horizontal          |
| 393.90   | 10.7  | 18.5                                  | 29.2  | 28.8                                 | 200.0                    | Horizontal          |
| 570.20   | 0.1   | 21.4                                  | 21.5  | 11.9                                 | 200.0                    | Horizontal          |
| 798.10   | 0.1   | 24.8                                  | 24.9  | 17.6                                 | 200.0                    | Horizontal          |
| 959.60   | 0.5   | 26.8                                  | 27.3  | 23.2                                 | 200.0                    | Horizontal          |

#### Remarks:

\*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 9kHz to 30MHz 1.8dB  
30MHz to 1GHz 5.2dB  
1GHz to 18GHz 5.1dB

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## STC Test Report

Date : 2013-05-27

Page 10 of 14

No. : HM168429

### Frequency Tolerance [FCC 47 CFR 15.225 (e)]:

Ambient Temperature: 23°C

Relative Humidity: 51%

Nominal transmit frequency: 13.56MHz

### Results of Tx on mode: Pass

| Test conditions         |                 | Carrier Frequency       |                       |                     |
|-------------------------|-----------------|-------------------------|-----------------------|---------------------|
|                         |                 | Carrier Frequency (MHz) | Frequency Drift (kHz) | Frequency Drift (%) |
| T = 20°C                | Voltage = 4.50V | 13.56420                | ---                   | ---                 |
|                         | Voltage = 3.8V  | 13.56420                | 0.00                  | 0.00                |
|                         | Voltage = 5.7V  | 13.56425                | 0.05                  | -0.00037            |
| T = 50°C                | Voltage = 4.5V  | 13.56413                | -0.07                 | 0.000516            |
| T = 40°C                | Voltage = 4.5V  | 13.56425                | 0.05                  | -0.00037            |
| T = 30°C                | Voltage = 4.5V  | 13.56405                | -0.15                 | 0.001106            |
| T = 10°C                | Voltage = 4.5V  | 13.56425                | 0.05                  | -0.00037            |
| T = 0°C                 | Voltage = 4.5V  | 13.56430                | 0.10                  | -0.00074            |
| T = -10°C               | Voltage = 4.5V  | 13.56420                | 0.00                  | 0.00                |
| T = -20°C               | Voltage = 4.5V  | 13.56425                | 0.05                  | -0.00037            |
| Measurement uncertainty |                 | $< \pm 1 * 10^{-7}$     |                       |                     |

LIMIT The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency.

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## STC Test Report

Date : 2013-05-27


Page 11 of 14

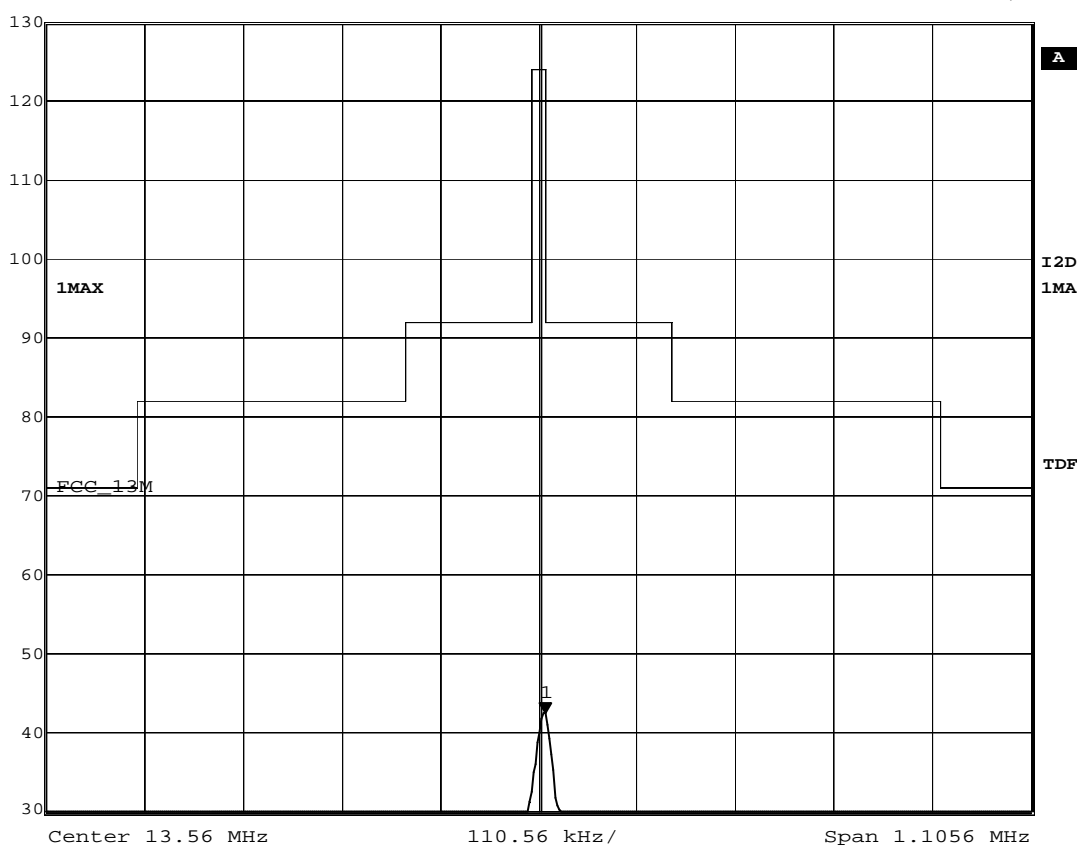
No. : HM168429

### In Band radiated spurious field strength [FCC 47 CFR 15.225 (a) (b) (c)]:

| Frequency Range<br>[MHz]                | Field Strength           | Field Strength             |
|---|--------------------------|----------------------------|
|   | [ $\mu$ V/m at 3 meters] | [dB $\mu$ V/m at 3 meters] |
| 13.553-13.567                           | 1,584,893.0              | 124                        |
| 13.410-13.553 MHz and 13.567-13.710 MHz | 33496.5                  | 90.5                       |
| 13.110-13.410 MHz and 13.710-14.010 MHz | 10592.5                  | 80.5                       |

### Mode of operation: Tx on mode

 Max/Ref Lvl    Marker 1 [T1]    RBW    10 kHz    RF Att    0 dB  
130 dB\*    42.50 dB $\mu$ V/m    VBW    30 kHz  
92 dB\*    13.56775471 MHz    SWT    28 ms    Unit    dB $\mu$ V/m



Date: 22.MAY.2013 17:46:39

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## STC Test Report

Date : 2013-05-27

Page 12 of 14

No. : HM168429

### Appendix A

#### List of Measurement Equipment

##### Radiated Emission

| EQP NO. | DESCRIPTION                          | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL   | DUE CAL    |
|---------|--------------------------------------|--------------|-----------|------------|------------|------------|
| EM299   | DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA | ETS-LINDGREN | 3115      | 00114120   | 2012/01/25 | 2014/01/25 |
| EM215   | MULTIDEVICE CONTROLLER               | EMCO         | 2090      | 00024676   | N/A        | N/A        |
| EM216   | MINI MAST SYSTEM                     | EMCO         | 2075      | 00026842   | N/A        | N/A        |
| EM217   | ELECTRIC POWERED TURNTABLE           | EMCO         | 2088      | 00029144   | N/A        | N/A        |
| EM218   | ANECHOIC CHAMBER                     | ETS-LINDGREN | FACT-3    | --         | 2012/10/25 | 2013/10/25 |
| EM229   | EMI TEST RECEIVER                    | R&S          | ESIB40    | 100248     | 2013/05/07 | 2014/05/07 |
| EM022   | LOOP ANTENNA                         | EMCO         | 6502      | 1189-2424  | 2011/09/14 | 2013/09/14 |

#### Remarks:-

CM Corrective Maintenance

N/A Not Applicable

TBD To Be Determined

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## STC Test Report

Date : 2013-05-27

Page 13 of 14

No. : HM168429

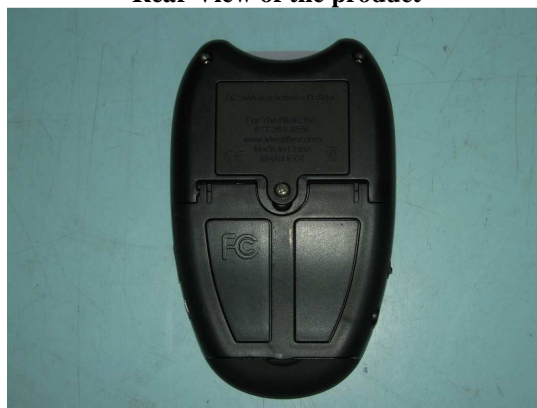
### Appendix B

#### Photographs of EUT

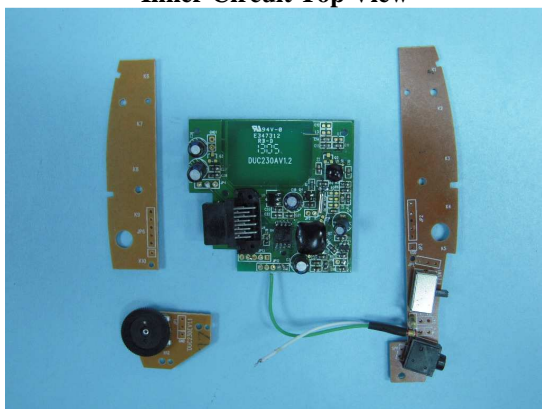
**Front View of the product**



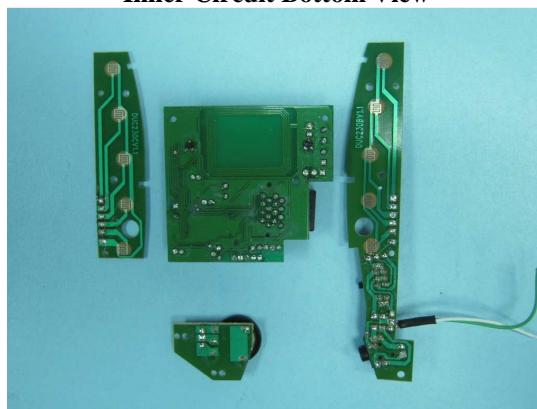
**Rear View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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Date : 2013-05-27

Page 14 of 14

No. : HM168429

### Photographs of EUT

**Measurement of Radiated Emission Test Set Up**



\*\*\*\*\* End of Test Report \*\*\*\*\*

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