







Report No: FCC 1506077 File reference No: 2015-06-23

Applicant: King of Fans, Inc.

Product: 52" Emswell

Model No: 52-ESW

Trademark: Home Decorators Collection

Test Standards: FCC Part 15 Subpart B: 2012

It is herewith confirmed and found to comply with the requirements Test result:

set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of

electromagnetic compatibility

Approved By

# Jack Chung

Jack Chung

Manager

Dated: June 23, 2015

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

## SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timewaytech.com

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## **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

### FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

### **IC- Registration No.: IC5205A-02**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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### **Test Report Conclusion**

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#### 1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Room 512-519,5/F., East Tower, Building 4, Anhua Industrial Zone,

Futian District, Shenzhen, Guangdong China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: King of Fans, Inc.

Address: 1951 N.W. 22nd Street, Fort Lauderdale, FL33311, USA

Telephone: 954-484-7500 Fax: 954-784-7602

1.3 Description of EUT

Product: 52" Emswell

Manufacturer: Chienluen Industries (zhongshan) LTD

Address: Da che Industrial Area, Nanlang Town, zhongshan, Guangdong

China 528451

Brand Name: Home Decorators Collection

Model Number: 52-ESW

Rating: Input: FAN W/O LIGHT KIT: 120V 60Hz 0.6A, 72W;

FAN W / LIGHT KIT: 120V 60Hz 0.74A, 88W

Rx Frequency: 304.25MHz

1.4 Submitted Sample: 1 Samples

1.5 Test Duration: 2015-06-09 to 2015-06-23

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions Uncertainty = 4.7dB

The report refers only to the sample tested and does not apply to the bulk.

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1.7 Test Engineer

The sample tested by



Print Name: Terry Tong

### 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

|                    |            |             |              | Calibration | Calibration |
|--------------------|------------|-------------|--------------|-------------|-------------|
| Name               | Model No.  | Serial No.  | Manufacturer | Date        | Cycle       |
| EMI Test Receiver  | ESH3       | 860905/006  | RS           | 2014.08.21  | 1Year       |
| Spectrum Analyzer  | ESA-L1500A | US37451154  | HP           | 2014.08.21  | 1Year       |
| PULSE LIMITER      | ESH3-Z2    | 100281      | RS           | 2014.08.22  | 1Year       |
| LISN               | ESH3-Z5    | 100294      | RS           | 2014.08.22  | 1Year       |
| LISN               | ESH3-Z5    | 100253      | RS           | 2014.08.22  | 1Year       |
| LISN               | LS16C      | 10010947251 | AFJ          | 2014.08.21  | 1Year       |
| LISN (Three Phase) | NSLK 8126  | 8126453     | Schwarebeck  | 2014.08.22  | 1Year       |

### 2.2 Radiated electromagnetic disturbance test

|                   |            |             |              | Calibration | Calibration |
|-------------------|------------|-------------|--------------|-------------|-------------|
| Name              | Model No.  | Serial No.  | Manufacturer | Date        | Cycle       |
| EMI Test Receiver | ESVD       | 100008      | RS           | 2014.08.21  | 1Year       |
| Coaxial Switch    | MP59B      | M70585      | ANRITSU      | N/A         | N/A         |
| Spectrum Analyzer | 8595E      | 3441A00893  | НР           | 2014.06.24  | 1Year       |
| Amplifier         | 8447D      | 2727A05017  | HP           | 2014.08.22  | 1Year       |
| Bilog Antenna     | VULB9163   | 9163/340    | Schwarebeck  | 2014.08.23  | 1Year       |
| Horn Antenna      | BBHA 9120D | 9120D-631   | Schwarebeck  | 2014.08.23  | 1Year       |
| Horn Antenna      | BBHA 9170  | BBHA9170265 | Schwarebeck  | 2014.08.23  | 1Year       |

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### 3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

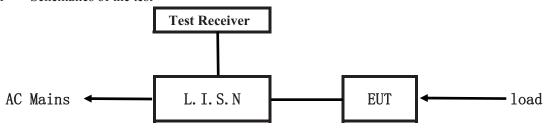
FCC Part 15 Subpart B: 2012

Date: 2015-06-23



#### 4.0 Conducted Power line Test

### 4.1 Schematics of the test



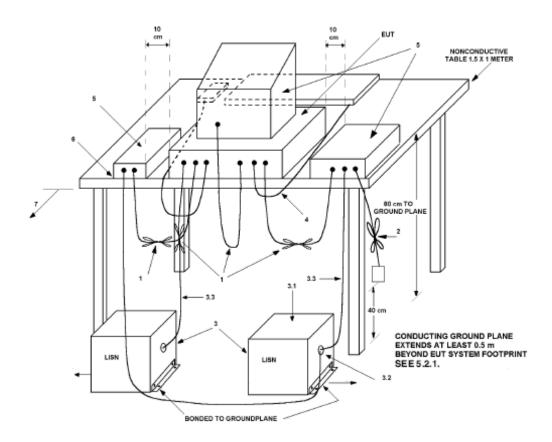
**EUT: Equipment Under Test** 

#### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014 The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014 Cables and peripherals were moved to find the maximum emission levels for each frequency.

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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### 4.3 Power line conducted Emission Limit

| Eraguanay (MHz) | Class A Li       | mits dB(μV)   | Class B Limits dB(µV) |               |  |
|-----------------|------------------|---------------|-----------------------|---------------|--|
| Frequency(MHz)  | Quasi-peak Level | Average Level | Quasi-peak Level      | Average Level |  |
| 0.15 ~ 0.50     | 79.00            | 66.00         | 66.00~56.00*          | 56.00~46.00*  |  |
| 0.50 ~ 5.00     | 73.00            | 60.00         | 56.00                 | 46.00         |  |
| 5.00 ~ 30.00    | 73.00            | 60.00         | 60.00                 | 50.00         |  |

Notes:

- 1. \*decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

### 4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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### A: Conducted Emission on Live Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

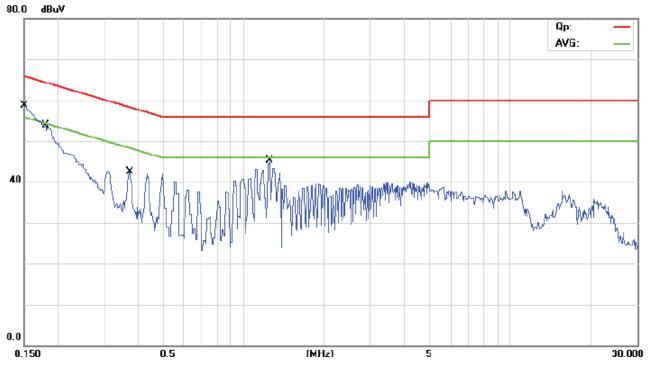
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Receiving Mode** 

**Equipment Level: Class B** 

**Results: PASS** 

Please refer to following diagram for individual



| No. Mk. | Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over   |          |         |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
|         | MHz    | dBuV             | dB                | dBuV             | dBuV  | dB     | Detector | Comment |
| 1       | 0.1514 | 36.50            | 11.00             | 47.50            | 65.92 | -18.42 | QP       |         |
| 2       | 0.1514 | 4.80             | 11.00             | 15.80            | 55.92 | -40.12 | AVG      |         |
| 3       | 0.1805 | 30.40            | 11.03             | 41.43            | 64.46 | -23.03 | QP       |         |
| 4       | 0.1805 | 7.10             | 11.03             | 18.13            | 54.46 | -36.33 | AVG      |         |
| 5       | 0.3725 | 27.00            | 11.24             | 38.24            | 58.44 | -20.20 | QP       |         |
| 6       | 0.3725 | 23.30            | 11.24             | 34.54            | 48.44 | -13.90 | AVG      |         |
| 7       | 1.2397 | 27.60            | 12.00             | 39.60            | 56.00 | -16.40 | QP       |         |
| 8 *     | 1.2397 | 21.60            | 12.00             | 33.60            | 46.00 | -12.40 | AVG      |         |

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### B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

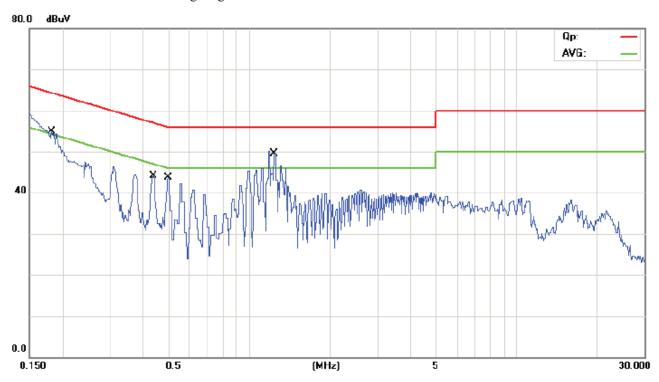
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Receiving Mode** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



| Mk. | Freq.  | Reading<br>Level                                       | Correct<br>Factor   | Measure-<br>ment  | Limit   | Over   |  |   |
|-----|--------|--|---|---|---|--|--|---|
|     | MHz    | dBuV   | dB  | dBuV  | dBuV  | dB   | Detector   | Comment   |
|     | 0.1820 | 32.30  | 11.03   | 43.33   | 64.39   | -21.06   | QP   |   |
|     | 0.1820 | 27.90  | 11.03   | 38.93   | 54.39   | -15.46   | AVG  |   |
|     | 0.4966 | 30.30  | 11.37   | 41.67   | 56.06   | -14.39   | QP   |   |
| *   | 0.4966 | 27.60  | 11.37   | 38.97   | 46.06   | -7.09  | AVG  |   |
|     | 1.2401 | 32.40  | 12.00   | 44.40   | 56.00   | -11.60   | QP   |   |
|     | 1.2401 | 22.30  | 12.00   | 34.30   | 46.00   | -11.70   | AVG  |   |
|     | 0.4324 | 30.70  | 11.30   | 42.00   | 57.21   | -15.21   | QP   |   |
|     | 0.4324 | 28.50  | 11.30   | 39.80   | 47.21   | -7.41  | AVG  |   |
|     |        | MHz 0.1820 0.1820 0.4966 * 0.4966 1.2401 1.2401 0.4324 | Mk. Freq. Level  MHz dBuV  0.1820 32.30  0.1820 27.90  0.4966 30.30  * 0.4966 27.60  1.2401 32.40  1.2401 22.30  0.4324 30.70 | Mk.         Freq.         Level         Factor           MHz         dBuV         dB           0.1820         32.30         11.03           0.1820         27.90         11.03           0.4966         30.30         11.37           *         0.4966         27.60         11.37           1.2401         32.40         12.00           1.2401         22.30         12.00           0.4324         30.70         11.30 | Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV           0.1820         32.30         11.03         43.33           0.1820         27.90         11.03         38.93           0.4966         30.30         11.37         41.67           *         0.4966         27.60         11.37         38.97           1.2401         32.40         12.00         44.40           1.2401         22.30         12.00         34.30           0.4324         30.70         11.30         42.00 | Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV         dBuV           0.1820         32.30         11.03         43.33         64.39           0.1820         27.90         11.03         38.93         54.39           0.4966         30.30         11.37         41.67         56.06           *         0.4966         27.60         11.37         38.97         46.06           1.2401         32.40         12.00         44.40         56.00           1.2401         22.30         12.00         34.30         46.00           0.4324         30.70         11.30         42.00         57.21 | Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV         dBuV         dB         dBuV         dB         dBuV         dB         dB         0.80         -21.06         dB         0.1820         27.90         11.03         38.93         54.39         -15.46         0.4966         30.30         11.37         41.67         56.06         -14.39           *         0.4966         27.60         11.37         38.97         46.06         -7.09           1.2401         32.40         12.00         44.40         56.00         -11.60           1.2401         22.30         12.00         34.30         46.00         -11.70           0.4324         30.70         11.30         42.00         57.21         -15.21 | Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV         dBuV         dB         Detector           0.1820         32.30         11.03         43.33         64.39         -21.06         QP           0.1820         27.90         11.03         38.93         54.39         -15.46         AVG           0.4966         30.30         11.37         41.67         56.06         -14.39         QP           *         0.4966         27.60         11.37         38.97         46.06         -7.09         AVG           1.2401         32.40         12.00         44.40         56.00         -11.60         QP           1.2401         22.30         12.00         34.30         46.00         -11.70         AVG           0.4324         30.70         11.30         42.00         57.21         -15.21         QP |

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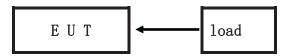
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#### 5.0 Radiated Disturbance Test

#### 5.1 Schematics of the test

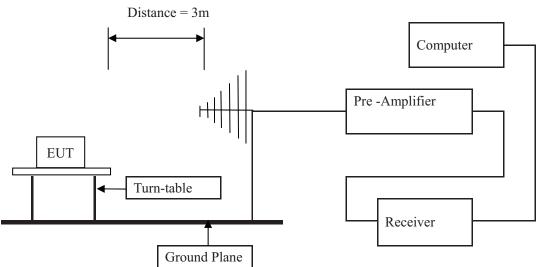


### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector

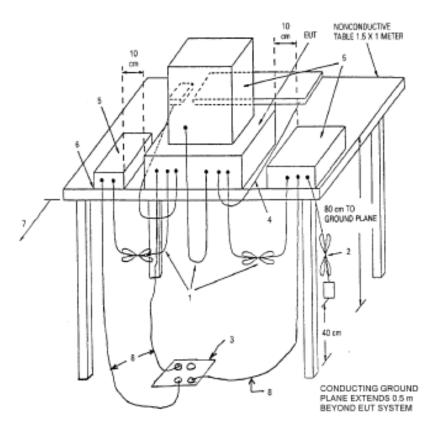
Actual Working Voltage and Frequency: 120V~, 60Hz

### **Block diagram of Test setup**



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#### 5.3 Radiated Emission Limit

| Frequency Range (MHz) | Distance (m) | Field strength (dB $\mu$ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88                 | 3            | 40.00                         |
| 88-216                | 3            | 43.50                         |
| 216-960               | 3            | 46.00                         |
| Above 960             | 3            | 54.00                         |

Note: 1.The lower limit shall apply at the transition frequencies

2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

#### 5.4 Test result

The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.

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#### Test result

### General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)

**EUT set Condition: Receiving Mode** 

**Results: Pass** 

| Frequency (MHz) | Level@3m (dB \u03b4 V/m) | Antenna Polarity | Limit@3m (dB \mu V/m) |
|-----------------|--------------------------|------------------|-----------------------|
| 945.440         | 41.15                    | Н                | 46.00                 |
| 291.960         | 34.36                    | Н                | 46.00                 |
| 31.000          | 31.64                    | Н                | 40.00                 |
|                 |                          |                  |                       |
| 940.960         | 41.15                    | V                | 46.00                 |
| 139.840         | 27.90                    | V                | 43.50                 |
| 30.040          | 34.95                    | V                | 40.00                 |

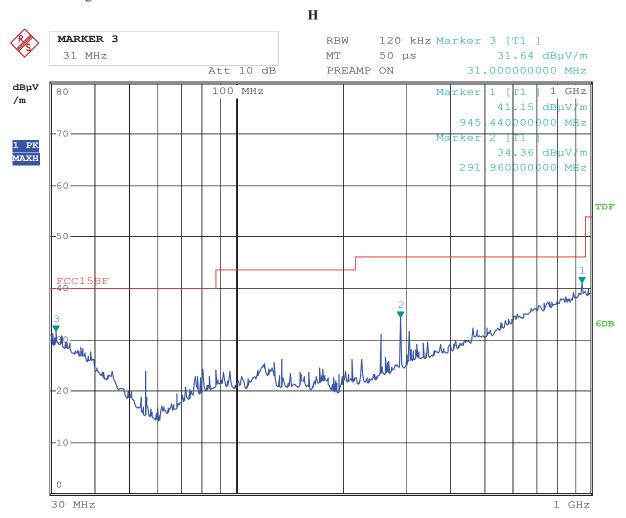
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### Test Figure:



Date: 10.JUN.2015 16:30:12

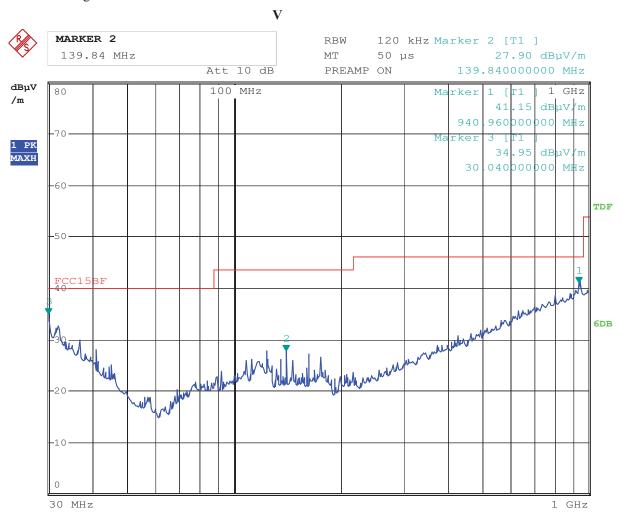
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### Test Figure:



Date: 10.JUN.2015 16:28:28

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### Radiated Disturbance (1000MHz----5000MHz)

**EUT Operating Environment** 

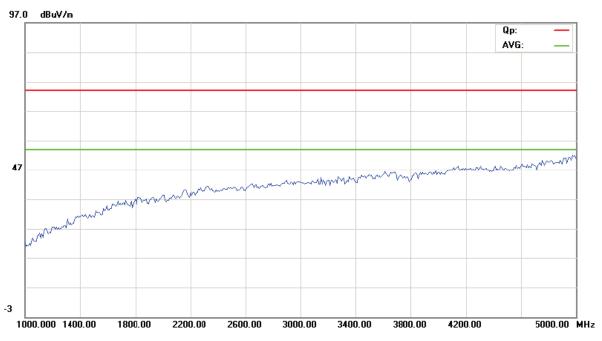
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Receiving Mode** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



| Frequency (MHz) | Level@3m ( $dB\mu V/m$ ) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|--------------------------|------------------|-------------------|
|                 | 1                        | Н                | 54(AV)            |

Note: PK scan value are lower than AV limit, so only PK test plot is reported

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### Radiated Disturbance (1000MHz----5000MHz)

### **EUT Operating Environment**

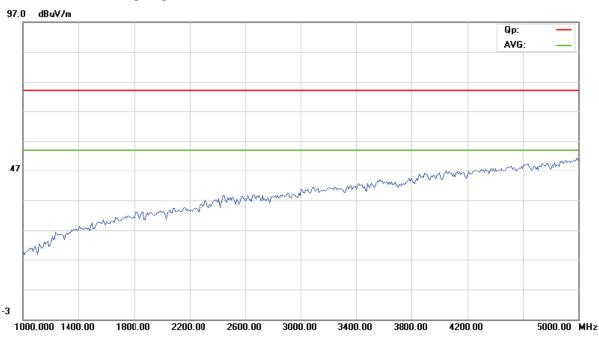
Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Receiving Mode** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
|                 |                   | V                | 54(AV)            |

Note: PK scan value are lower than AV limit, so only PK test plot is reported

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### 6.0 FCC ID Label

### FCC ID: RGB-52ESWS

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### **Mark Location:**



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### 7.0 Photo of testing

#### Conducted test View--7.1



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#### 7.2 Radiated emission test view--





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### Photo for the EUT





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In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to

adopt any other remedies which may be appropriate.

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### Photo for the EUT





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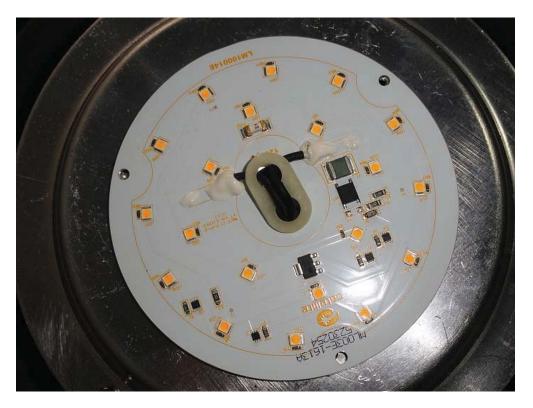
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### Photo for the EUT





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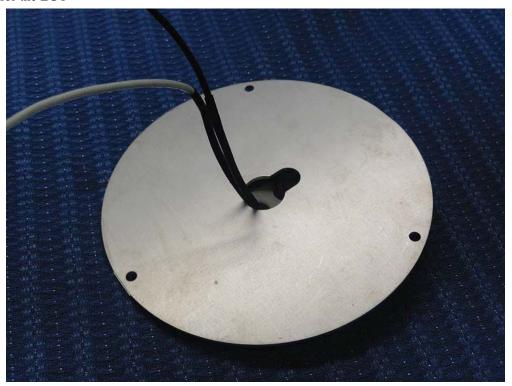
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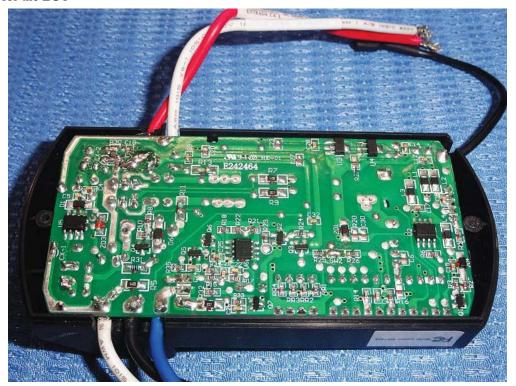


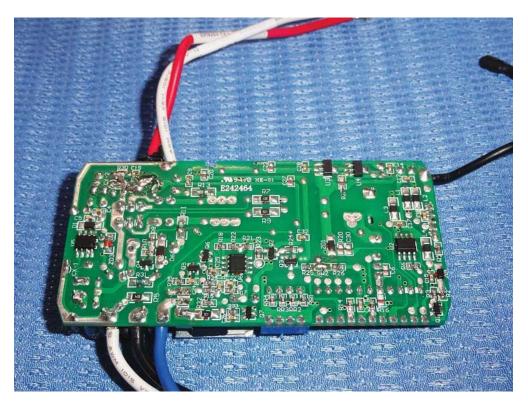
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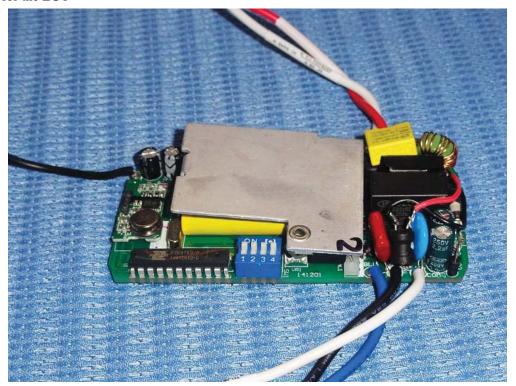
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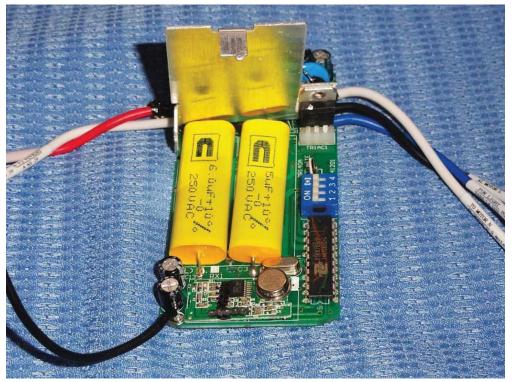
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-End of the report-

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