



Report No.: FCC1906191 File reference No.: 2019-06-22

Applicant: King of Fans, Inc.

Product: 56" Wales

Model No: 56-WALS

Trademark: Home Decorators Collection

Test Standards: FCC Part 15 Subpart B

Test result:

It is herewith confirmed and found to comply with the

requirements 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 22, 2019

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

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.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.: 744189

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.: 744189.

## Industry Canada (IC) —Registration No.:5205A-2

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A-2.

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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: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road

West, Tong Le Village, Nanshan District, Shenzhen, China

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

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

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: 56" Wales

Manufacturer: Chienluen Industries (zhongshan) Ltd..

Address: Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451

Trademark: Home Decorators Collection

Model Number: 56-WALS

Rating: Input 120V, 60Hz, w/o light 0.6A, w/o light 72W; Output: w/light 0.68 (LED bulb),

w/light 82W (LED bulb) Rx Frequency: 304MHz

1.4 Submitted Sample: 1 Samples

1.5 Test Duration: 2019-06-19 to 2019-06-21

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB

1.7 Test Engineer

The sample tested by

lemy lang

Print Name: Terry Tang

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

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# 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           | 2018.06.22  | 1Year       |
| Spectrum Analyzer | ESA-L1500A | US37451154 | HP           | 2018.06.22  | 1Year       |
| PULSE LIMITER     | ESH3-Z2    | 100281     | RS           | 2018.06.22  | 1Year       |
| LISN              | ESH3-Z5    | 100294     | RS           | 2018.06.22  | 1Year       |
| LISN              | ESH3-Z5    | 100253     | RS           | 2018.06.22  | 1Year       |
| LISN              | NNB42      | 00012      | SCHAFFNER    | 2019.01.08  | 1Year       |

## 2.2 Radiated electromagnetic disturbance test

|                   |            |            |              | Calibration | Calibration |
|-------------------|------------|------------|--------------|-------------|-------------|
| Name              | Model No.  | Serial No. | Manufacturer | Date        | Cycle       |
| EMI Test Receiver | ESPI 3     | 100379     | RS           | 2018.06.22  | 1Year       |
| Amplifier         | BBV9743    | #218       | Schwarzbeck  | 2018.06.22  | 1Year       |
| Amplifier         | 8449B      | 3008A00160 | HP           | 2018.06.25  | 1Year       |
| Bilog Antenna     | VULB9163   | 1139       | Schwarzbeck  | 2018.07.04  | 1Year       |
| Horn Antenna      | BBHA 9120D | 9120D-631  | RS           | 2018.07.09  | 1Year       |
| Spectrum          | E4407B     | MY50441392 | Agilent      | 2019.03.27  | 1Year       |

# 2.3 Auxiliary Equipment

| Name | Model No. | Serial No. | Manufacturer | Date | Cycle |
|------|-----------|------------|--------------|------|-------|
|      |           |            |              |      |       |

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#### 3.0 **Technical Details**

3.1 Investigations Requested Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

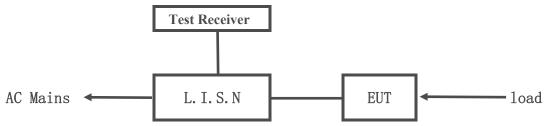
FCC Part 15 Subpart B

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#### 4.0 Conducted Power line Test

#### 4.1 Schematics of the test



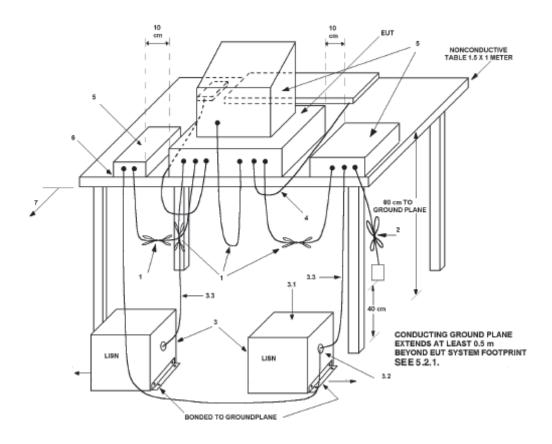
EUT: Equipment Under Test

#### 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



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

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#### 4.3 Power line conducted Emission Limit

| Engguer av (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*  |  |  |
| $0.50 \sim 5.00$ | 76.00            | 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

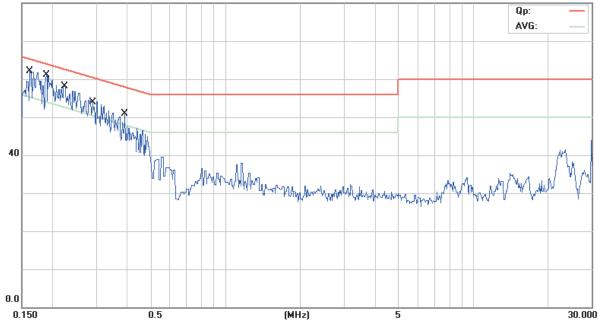
**EUT set Condition: Receiving Mode** 

**Equipment Level: Class B** 

**Results: PASS** 

Please refer to following diagram for individual

#### 800 dBuV



| No. Mk. | Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over   |          |         |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
|         | MHz    | dBu∨             | dB                | dBu∨             | dBu∨  | dB     | Detector | Comment |
| 1 *     | 0.1616 | 46.40            | 9.78              | 56.18            | 65.38 | -9.20  | QP       |         |
| 2       | 0.1616 | 12.70            | 9.78              | 22.48            | 55.38 | -32.90 | AVG      |         |
| 3       | 0.1884 | 44.30            | 9.76              | 54.06            | 64.11 | -10.05 | QP       |         |
| 4       | 0.1884 | 18.10            | 9.76              | 27.86            | 54.11 | -26.25 | AVG      |         |
| 5       | 0.2201 | 41.70            | 9.75              | 51.45            | 62.82 | -11.37 | QP       |         |
| 6       | 0.2201 | 11.50            | 9.75              | 21.25            | 52.82 | -31.57 | AVG      |         |
| 7       | 0.2900 | 37.30            | 9.76              | 47.06            | 60.52 | -13.46 | QP       |         |
| 8       | 0.2900 | 22.20            | 9.76              | 31.96            | 50.52 | -18.56 | AVG      |         |
| 9       | 0.3863 | 31.90            | 9.76              | 41.66            | 58.14 | -16.48 | QP       |         |
| 10      | 0.3863 | 18.60            | 9.76              | 28.36            | 48.14 | -19.78 | AVG      |         |
|         |        |                  |                   |                  |       |        |          |         |

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

**EUT Operating Environment** 

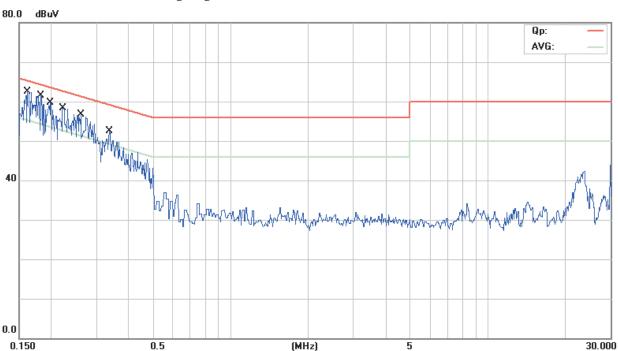
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Receiving Mode** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



| MHz         dBuV         dB         dBuV         dB uV         dAVG         date         date | No. Mk | . Freq. | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over   |          |         |
|--|--------|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| 2 0.1607 10.70 9.78 20.48 55.43 -34.95 AVG 3 0.1817 44.90 9.76 54.66 64.41 -9.75 QP 4 0.1817 14.60 9.76 24.36 54.41 -30.05 AVG 5 0.1987 42.70 9.75 52.45 63.66 -11.21 QP 6 0.1987 11.50 9.75 21.25 53.66 -32.41 AVG 7 0.2205 41.60 9.75 51.35 62.80 -11.45 QP 8 0.2205 10.20 9.75 19.95 52.80 -32.85 AVG 9 0.2600 38.00 9.75 47.75 61.43 -13.68 QP 10 0.2600 17.00 9.75 26.75 51.43 -24.68 AVG 11 0.3390 34.10 9.76 43.86 59.23 -15.37 QP  |        | MHz     | dBu∨             | dB                | dBu∨             | dBu∨  | dB     | Detector | Comment |
| 3 0.1817 44.90 9.76 54.66 64.41 -9.75 QP 4 0.1817 14.60 9.76 24.36 54.41 -30.05 AVG 5 0.1987 42.70 9.75 52.45 63.66 -11.21 QP 6 0.1987 11.50 9.75 21.25 53.66 -32.41 AVG 7 0.2205 41.60 9.75 51.35 62.80 -11.45 QP 8 0.2205 10.20 9.75 19.95 52.80 -32.85 AVG 9 0.2600 38.00 9.75 47.75 61.43 -13.68 QP 10 0.2600 17.00 9.75 26.75 51.43 -24.68 AVG 11 0.3390 34.10 9.76 43.86 59.23 -15.37 QP   | 1 *    | 0.1607  | 46.30            | 9.78              | 56.08            | 65.43 | -9.35  | QP       |         |
| 4       0.1817       14.60       9.76       24.36       54.41       -30.05       AVG         5       0.1987       42.70       9.75       52.45       63.66       -11.21       QP         6       0.1987       11.50       9.75       21.25       53.66       -32.41       AVG         7       0.2205       41.60       9.75       51.35       62.80       -11.45       QP         8       0.2205       10.20       9.75       19.95       52.80       -32.85       AVG         9       0.2600       38.00       9.75       47.75       61.43       -13.68       QP         10       0.2600       17.00       9.75       26.75       51.43       -24.68       AVG         11       0.3390       34.10       9.76       43.86       59.23       -15.37       QP  | 2      | 0.1607  | 10.70            | 9.78              | 20.48            | 55.43 | -34.95 | AVG      |         |
| 5       0.1987       42.70       9.75       52.45       63.66       -11.21       QP         6       0.1987       11.50       9.75       21.25       53.66       -32.41       AVG         7       0.2205       41.60       9.75       51.35       62.80       -11.45       QP         8       0.2205       10.20       9.75       19.95       52.80       -32.85       AVG         9       0.2600       38.00       9.75       47.75       61.43       -13.68       QP         10       0.2600       17.00       9.75       26.75       51.43       -24.68       AVG         11       0.3390       34.10       9.76       43.86       59.23       -15.37       QP   | 3      | 0.1817  | 44.90            | 9.76              | 54.66            | 64.41 | -9.75  | QP       |         |
| 6 0.1987 11.50 9.75 21.25 53.66 -32.41 AVG 7 0.2205 41.60 9.75 51.35 62.80 -11.45 QP 8 0.2205 10.20 9.75 19.95 52.80 -32.85 AVG 9 0.2600 38.00 9.75 47.75 61.43 -13.68 QP 10 0.2600 17.00 9.75 26.75 51.43 -24.68 AVG 11 0.3390 34.10 9.76 43.86 59.23 -15.37 QP   | 4      | 0.1817  | 14.60            | 9.76              | 24.36            | 54.41 | -30.05 | AVG      |         |
| 7 0.2205 41.60 9.75 51.35 62.80 -11.45 QP<br>8 0.2205 10.20 9.75 19.95 52.80 -32.85 AVG<br>9 0.2600 38.00 9.75 47.75 61.43 -13.68 QP<br>10 0.2600 17.00 9.75 26.75 51.43 -24.68 AVG<br>11 0.3390 34.10 9.76 43.86 59.23 -15.37 QP  | 5      | 0.1987  | 42.70            | 9.75              | 52.45            | 63.66 | -11.21 | QP       |         |
| 8 0.2205 10.20 9.75 19.95 52.80 -32.85 AVG 9 0.2600 38.00 9.75 47.75 61.43 -13.68 QP 10 0.2600 17.00 9.75 26.75 51.43 -24.68 AVG 11 0.3390 34.10 9.76 43.86 59.23 -15.37 QP  | 6      | 0.1987  | 11.50            | 9.75              | 21.25            | 53.66 | -32.41 | AVG      |         |
| 9 0.2600 38.00 9.75 47.75 61.43 -13.68 QP<br>10 0.2600 17.00 9.75 26.75 51.43 -24.68 AVG<br>11 0.3390 34.10 9.76 43.86 59.23 -15.37 QP   | 7      | 0.2205  | 41.60            | 9.75              | 51.35            | 62.80 | -11.45 | QP       |         |
| 10 0.2600 17.00 9.75 26.75 51.43 -24.68 AVG<br>11 0.3390 34.10 9.76 43.86 59.23 -15.37 QP  | 8      | 0.2205  | 10.20            | 9.75              | 19.95            | 52.80 | -32.85 | AVG      |         |
| 11 0.3390 34.10 9.76 43.86 59.23 -15.37 QP   | 9      | 0.2600  | 38.00            | 9.75              | 47.75            | 61.43 | -13.68 | QP       |         |
|  | 10     | 0.2600  | 17.00            | 9.75              | 26.75            | 51.43 | -24.68 | AVG      |         |
| 12 0.3390 6.40 9.76 16.16 49.23 -33.07 AVG   | 11     | 0.3390  | 34.10            | 9.76              | 43.86            | 59.23 | -15.37 | QP       |         |
|  | 12     | 0.3390  | 6.40             | 9.76              | 16.16            | 49.23 | -33.07 | AVG      |         |

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

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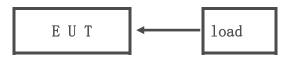
Report No: FCC1906191

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#### 5.0 Radiated Disturbance Test

#### 5.1 Schematics of the test

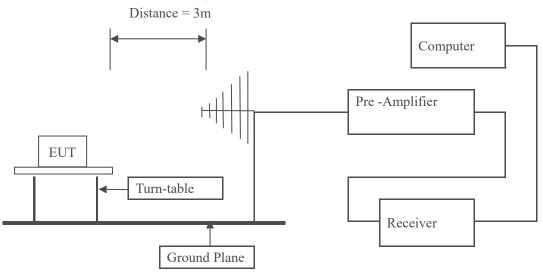


#### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 6GHz 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

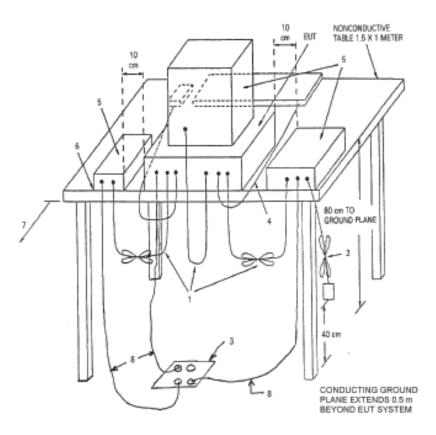
Actual Working Voltage and Frequency: 120V~, 60Hz

## **Block diagram of Test setup**



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#### 5.3 Radiated Emission Limit

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

Note: The lower limit shall apply at the transition frequencies

#### 5.4 Test result

The frequency spectrum from 30MHz to 6GHz 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. Measurements were made at 3 meters.

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Test result

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General Radiated Emission Data and Harmonics Radiated Emission Data

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

**EUT set Condition:** Receiving Mode

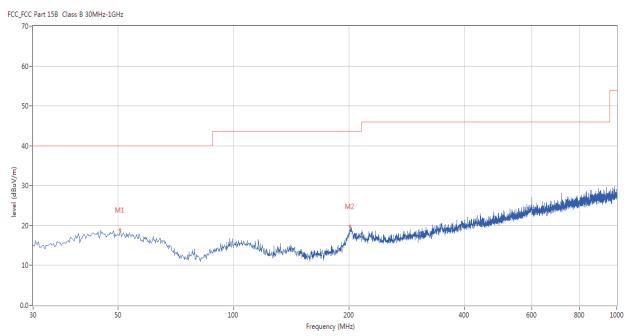
Equipment Level: Class B Results: Pass Report No: FCC1906191 Page 14 of 34

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## Test Figure:

Н



| No. | Frequency | Results  | Factor (dB) | Limit    | Over Limit | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|-------------|----------|------------|----------|-------|--------|-----|---------|
|     | (MHz)     | (dBuV/m) |             | (dBuV/m) | (dB)       |          | (0)   | (cm)   |     |         |
| 1   | 50.607    | 18.91    | -11.39      | 40.0     | -21.09     | Peak     | 5.00  | 100    | Н   | Pass    |
| 2   | 201.162   | 19.82    | -13.43      | 43.5     | -23.68     | Peak     | 0.00  | 200    | Н   | Pass    |

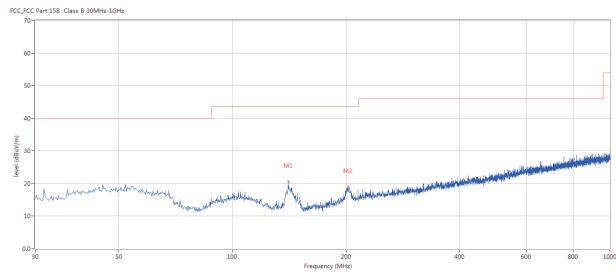
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## Test Figure:

V



| No. | Frequen  | Results | Factor | Limit   | Over   | Detector | Table (o) | Height | ANT | Verdict |
|-----|----------|---------|--------|---------|--------|----------|-----------|--------|-----|---------|
|     | cy (MHz) | (dBuV/m | (dB)   | (dBuV/m | Limit  |          |           | (cm)   |     |         |
|     |          | )       |        | )       | (dB)   |          |           |        |     |         |
| 1   | 140.552  | 20.58   | -17.24 | 43.5    | -22.92 | Peak     | 89.00     | 100    | V   | Pass    |
| 2   | 202.374  | 18.92   | -13.39 | 43.5    | -24.58 | Peak     | 20.00     | 100    | V   | Pass    |

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#### Radiated Disturbance (1000MHz----6000MHz)

**EUT Operating Environment** 

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

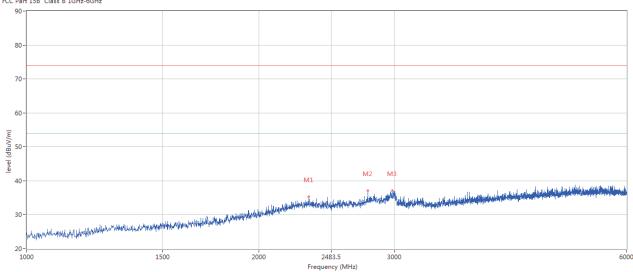
**EUT set Condition: Receiving Mode** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

FCC Part 15B Class B 1GHz-6GHz



| No. | Frequency | Results  | Factor | Limit    | Over   | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|--------|----------|-----------|--------|-----|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | Limit  |          |           | (cm)   |     |         |
|     |           |          |        |          | (dB)   |          |           |        |     |         |
| 1   | 2322.169  | 35.35    | -3.27  | 74.0     | -38.65 | Peak     | 252.00    | 100    | Н   | Pass    |
| 2   | 2770.807  | 37.06    | -2.77  | 74.0     | -36.94 | Peak     | 140.00    | 100    | Н   | Pass    |
| 3   | 2978.255  | 37.16    | -2.65  | 74.0     | -36.84 | Peak     | 270.00    | 100    | Н   | Pass    |

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## Radiated Disturbance (1000MHz----6000MHz)

**EUT Operating Environment** 

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

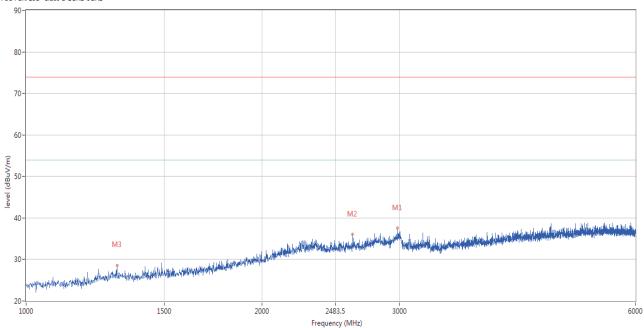
**EUT set Condition: Receiving Mode** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

#### FCC Part 15B Class B 1GHz-6GHz



| No. | Frequency | Results  | Factor (dB) | Limit    | Over Limit | Detector | Table  | Height | ANT | Verdict |
|-----|-----------|----------|-------------|----------|------------|----------|--------|--------|-----|---------|
|     | (MHz)     | (dBuV/m) |             | (dBuV/m) | (dB)       |          | (o)    | (cm)   |     |         |
| 1   | 2979.505  | 37.50    | -2.65       | 74.0     | -36.50     | Peak     | 319.00 | 100    | V   | Pass    |
| 2   | 2610.847  | 36.09    | -3.28       | 74.0     | -37.91     | Peak     | 242.00 | 100    | V   | Pass    |
| 3   | 1306.173  | 28.63    | -8.23       | 74.0     | -45.37     | Peak     | 63.00  | 100    | V   | Pass    |

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#### 6.0 FCC Label

#### FCC ID: RGB-56WALSD

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.



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Photo of testing 7.0

7.1 Conducted test View--



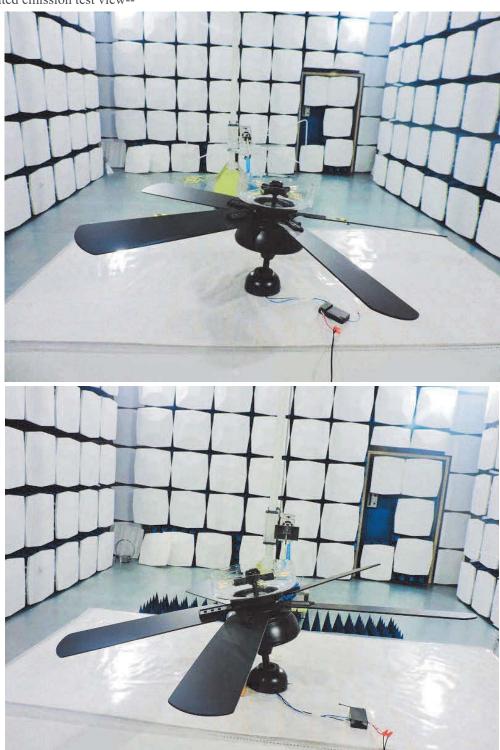
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#### 7.2 Radiated emission test view--



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## Photo for the EUT





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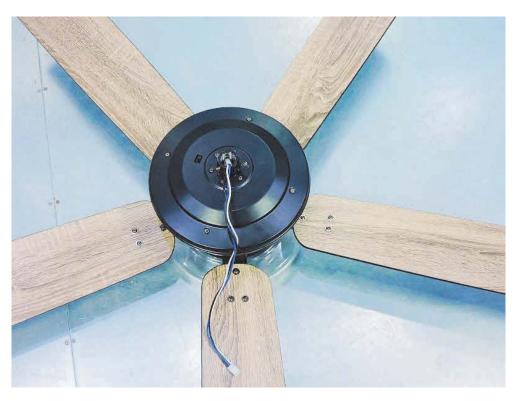
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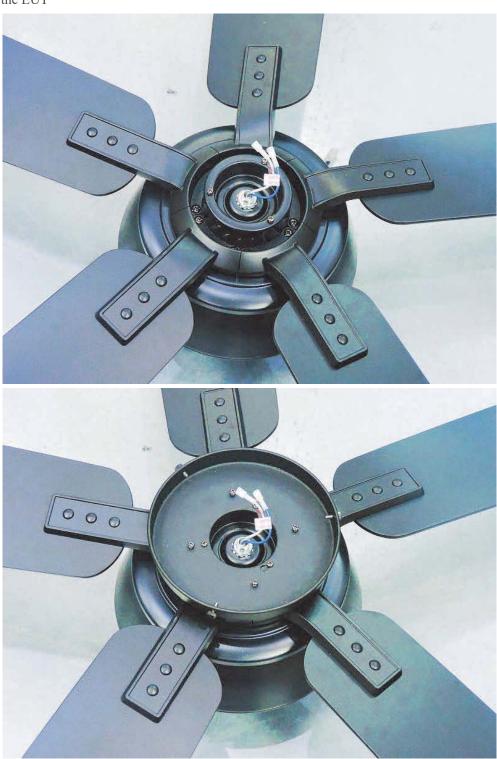
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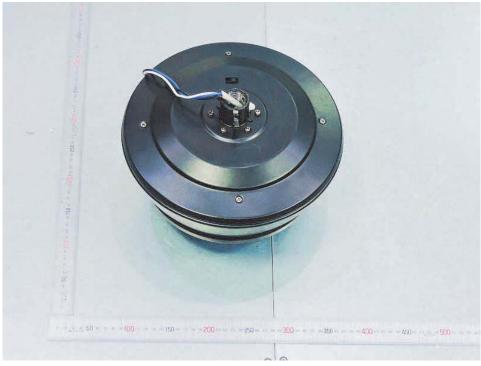


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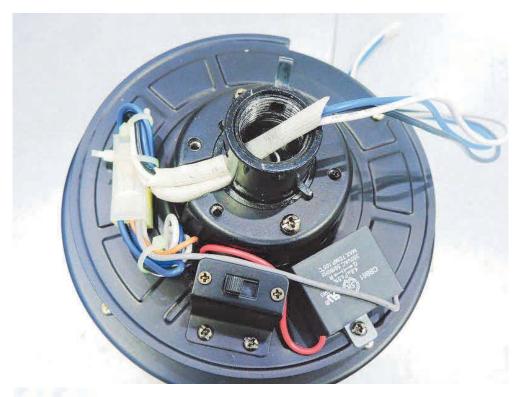




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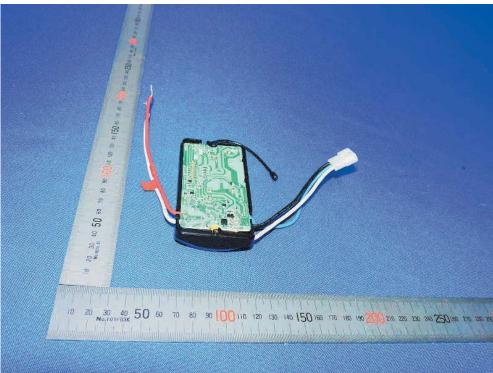


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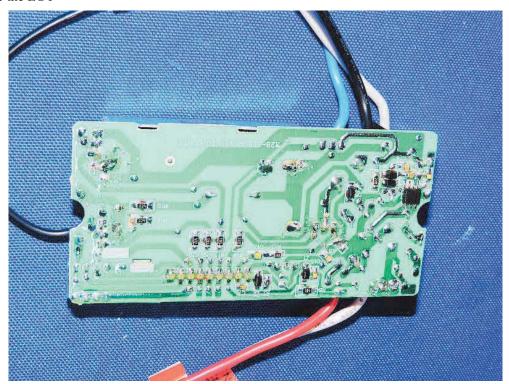
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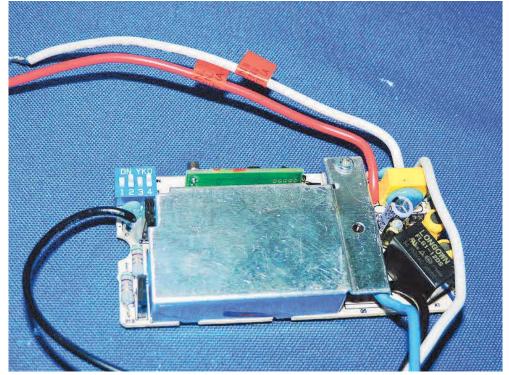
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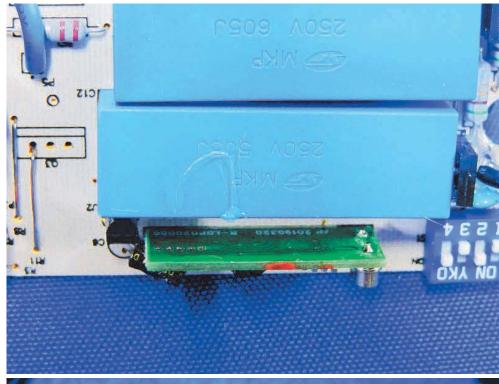
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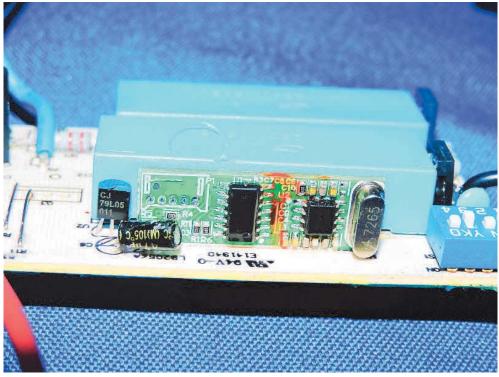
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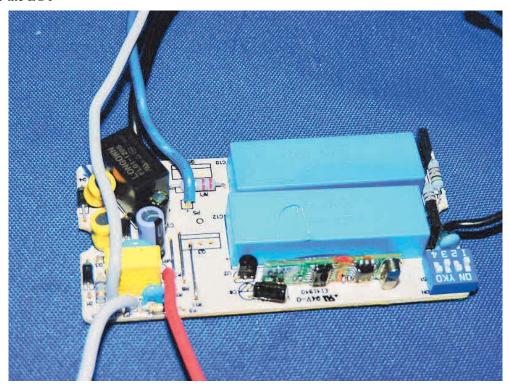
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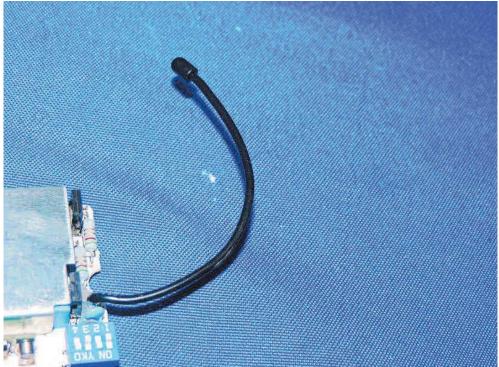
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-End of the report-

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