

# FCC TEST REPORT

**Product Name:** 60" Glandon  
**Trade Mark:** Progress Lighting  
**Model No.:** P2586  
**Report Number:** 171127001EMC-1  
**Test Standards:** FCC 47 CFR Part 15 Subpart B  
**FCC ID:** RGB-P2586R  
**Test Result:** PASS  
**Date of Issue:** December 1, 2017

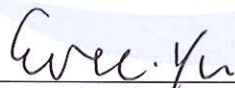
Prepared for:

**King of Fans, Inc.**  
**1951 N.W. 22nd Street, Fort Lauderdale, FL33311, USA**

Prepared by:

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**  
**16/F, Block A, Building 6, Baoneng Science and Technology Park,**  
**Qingxiang Road No.1, Longhua New District, Shenzhen, China**  
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December 1, 2017



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## Version

| Version No. | Date             | Description |
|-------------|------------------|-------------|
| V1.0        | December 1, 2017 | Original    |



### **Shenzhen UnionTrust Quality and Technology Co., Ltd.**

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## 1. GENERAL INFORMATION

### 1.1 CLIENT INFORMATION

|                                 |                                                                         |
|---------------------------------|-------------------------------------------------------------------------|
| <b>Applicant:</b>               | King of Fans, Inc.                                                      |
| <b>Address of Applicant:</b>    | 1951 N.W. 22nd Street, Fort Lauderdale, FL33311, USA                    |
| <b>Manufacturer:</b>            | Chienlue Industries (zhongshan) Ltd.                                    |
| <b>Address of Manufacturer:</b> | Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451 |

### 1.2 EUT INFORMATION

#### 1.2.1 General Description of EUT

|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| <b>Product Name:</b>                      | 60" Glandon                            |
| <b>Model No.:</b>                         | P2586                                  |
| <b>Trade Mark:</b>                        | Progress Lighting                      |
| <b>DUT Stage:</b>                         | Identical Prototype                    |
| <b>Power Supply:</b>                      | AC 120V/60Hz                           |
| <b>Classification of digital devices:</b> | Class B                                |
| <b>Receiver Frequency:</b>                | 303.835MHz                             |
| <b>Software Version:</b>                  | N/A                                    |
| <b>Hardware Version:</b>                  | N/A                                    |
| <b>Sample Received Date:</b>              | November 27, 2017                      |
| <b>Sample Tested Date:</b>                | November 27, 2017 to November 30, 2017 |

#### 1.2.2 Description of Accessories

None

### 1.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested independently

### 1.4 TEST LOCATION

#### Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China 518109  
 Telephone: +86 (0) 755 2823 0888  
 Fax: +86 (0) 755 2823 0886

## 1.5 TEST FACILITY

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

**CNAS-Lab Code: L9069**

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

**IC-Registration No.: 21600-1**

The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

**A2LA-Lab Certificate No.: 4312.01**

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

**FCC Accredited Lab.**

Designation Number: CN1194

Test Firm Registration Number: 259480

## 1.6 DEVIATION FROM STANDARDS

None.

## 1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

## 1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

## 1.9 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Conducted emission 9KHz-150KHz  | ±3.8 dB                 |
| 2   | Conducted emission 150KHz-30MHz | ±3.4 dB                 |
| 3   | Radiated emission 9KHz-30MHz    | ±4.9 dB                 |
| 4   | Radiated emission 30MHz-1GHz    | ±4.7 dB                 |
| 5   | Radiated emission 1GHz-18GHz    | ±5.1 dB                 |
| 6   | Radiated emission 18GHz-26GHz   | ±5.2 dB                 |
| 7   | Radiated emission 26GHz-40GHz   | ±5.2 dB                 |

## 2. TEST SUMMARY

| FCC 47 CFR Part 15 Subpart B Test Cases |                        |                 |        |
|-----------------------------------------|------------------------|-----------------|--------|
| Test Item                               | Test Requirement       | Test Method     | Result |
| Conducted Emission                      | FCC 47 CFR Part 15.107 | ANSI C63.4-2014 | PASS   |
| Radiated Emission                       | FCC 47 CFR Part 15.109 | ANSI C63.4-2014 | PASS   |



### 3. EQUIPMENT LIST

| Radiated Emission Test Equipment List |                                   |              |           |                            |                         |                             |
|---------------------------------------|-----------------------------------|--------------|-----------|----------------------------|-------------------------|-----------------------------|
| Used                                  | Equipment                         | Manufacturer | Model No. | Serial Number              | Cal. date (mm dd, yyyy) | Cal. Due date (mm dd, yyyy) |
| <input checked="" type="checkbox"/>   | 3M Chamber & Accessory Equipment  | ETS-LINDGREN | 3M        | N/A                        | Dec. 20, 2015           | Dec. 19, 2018               |
| <input type="checkbox"/>              | Receiver                          | R&S          | ESR7      | 1316.3003K07-101181-K3     | Dec. 22, 2016           | Dec. 22, 2017               |
| <input checked="" type="checkbox"/>   | Receiver                          | R&S          | ESIB26    | 100114                     | Dec. 22, 2016           | Dec. 22, 2017               |
| <input type="checkbox"/>              | EXA Spectrum Analyzer             | KEYSIGHT     | N9010A    | MY51440197                 | Dec. 22, 2016           | Dec. 22, 2017               |
| <input type="checkbox"/>              | Loop Antenna                      | ETS-LINDGREN | 6502      | 00202525                   | Jun. 24, 2015           | Jun. 23, 2018               |
| <input checked="" type="checkbox"/>   | Broadband Antenna                 | ETS-LINDGREN | 3142E     | 00201566                   | Jul. 24, 2015           | Jul. 23, 2018               |
| <input checked="" type="checkbox"/>   | Preamplifier                      | HP           | 8447F     | 2805A02960                 | Dec. 22, 2016           | Dec. 22, 2017               |
| <input type="checkbox"/>              | Broadband Antenna (Pre-amplifier) | ETS-LINDGREN | 3142E-PA  | 00201891                   | Dec. 30, 2016           | Dec. 30, 2017               |
| <input type="checkbox"/>              | Horn Antenna                      | ETS-LINDGREN | 3117      | 00164202                   | Jul. 24, 2015           | Jul. 23, 2018               |
| <input checked="" type="checkbox"/>   | Horn Antenna (Pre-amplifier)      | ETS-LINDGREN | 3117-PA   | 00201874                   | Dec. 30, 2016           | Dec. 30, 2017               |
| <input type="checkbox"/>              | Horn Antenna                      | ETS-LINDGREN | 3116C     | 00200180                   | Jul. 28, 2015           | Jul. 27, 2018               |
| <input type="checkbox"/>              | Horn Antenna (Pre-amplifier)      | ETS-LINDGREN | 3116C-PA  | 00202652                   | Jul. 29, 2015           | Jul. 28, 2018               |
| <input checked="" type="checkbox"/>   | Multi device Controller           | ETS-LINDGREN | 7006-001  | 00160105                   | N/A                     | N/A                         |
| <input checked="" type="checkbox"/>   | Test Software                     | Audix        | e3        | Software Version: 9.160323 |                         |                             |

| Conducted Emission Test Equipment List |               |              |           |                            |                         |                             |
|----------------------------------------|---------------|--------------|-----------|----------------------------|-------------------------|-----------------------------|
| Used                                   | Equipment     | Manufacturer | Model No. | Serial Number              | Cal. date (mm dd, yyyy) | Cal. Due date (mm dd, yyyy) |
| <input checked="" type="checkbox"/>    | Receiver      | R&S          | ESR7      | 1316.3003K07-101181-K3     | Dec. 22, 2016           | Dec. 22, 2017               |
| <input checked="" type="checkbox"/>    | Pulse Limiter | R&S          | ESH3-Z2   | 0357.8810.54               | Dec. 22, 2016           | Dec. 22, 2017               |
| <input checked="" type="checkbox"/>    | LISN          | R&S          | ESH2-Z5   | 860014/024                 | Dec. 22, 2016           | Dec. 22, 2017               |
| <input checked="" type="checkbox"/>    | Test Software | Audix        | e3        | Software Version: 9.160323 |                         |                             |



## 4. TEST CONFIGURATION

### 4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

#### 4.1.1 Normal or Extreme Test Conditions

| Environment Parameter                                           | Selected Values During Tests |              |                       |
|-----------------------------------------------------------------|------------------------------|--------------|-----------------------|
| Test Condition                                                  | Ambient                      |              |                       |
|                                                                 | Temperature (°C)             | Voltage      | Relative Humidity (%) |
| NT/NV                                                           | +15 to +35                   | AC 120V/60Hz | 20 to 75              |
| <b>Remark:</b><br>1) NV: Normal Voltage; NT: Normal Temperature |                              |              |                       |

#### 4.1.2 Record of Normal Environment

| Test Item          | Temperature (°C) | Relative Humidity (%) | Pressure (Kpa) | Tested by    |
|--------------------|------------------|-----------------------|----------------|--------------|
| Conducted Emission | 23.4             | 52                    | 100.02         | Andy Lin     |
| Radiated Emission  | 24.5             | 53                    | 99.92          | Terence Chen |

## 4.2 TEST MODES

| Test Item          | EMI Test Modes |
|--------------------|----------------|
| Radiated Emission  | Receiving Mode |
| Conducted Emission | Receiving Mode |

## 4.3 TEST SETUP

### 4.3.1 For Radiated Emissions test setup

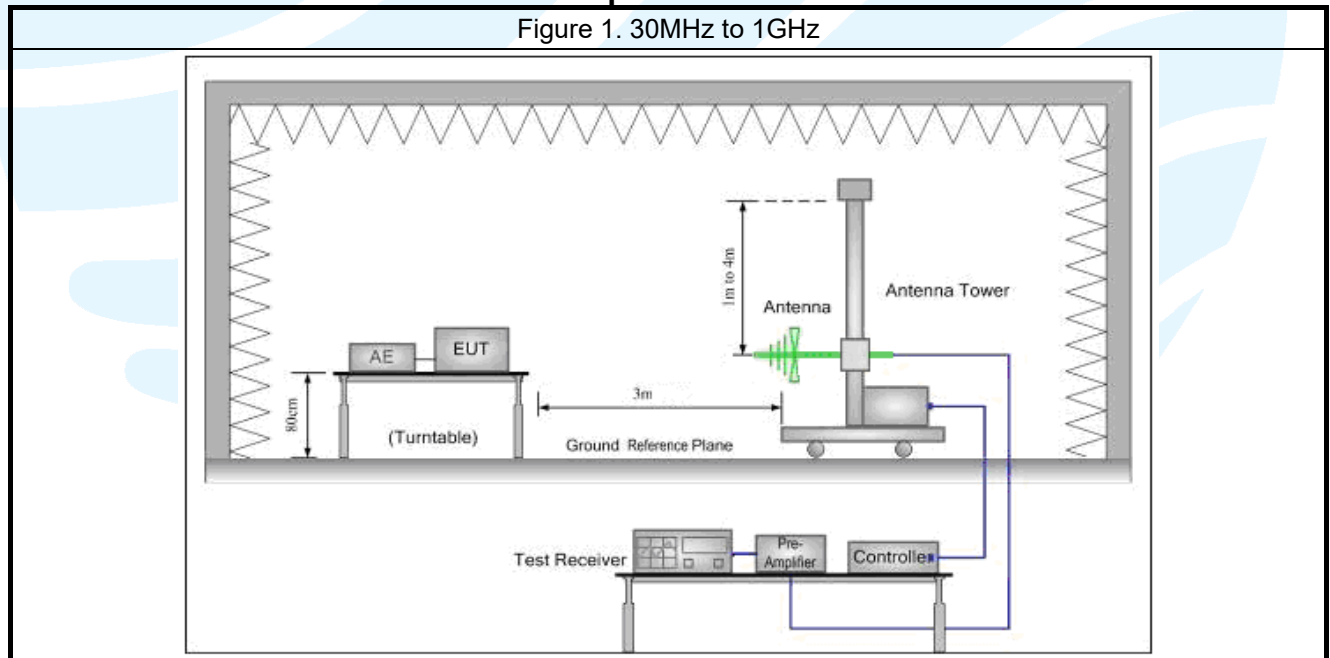
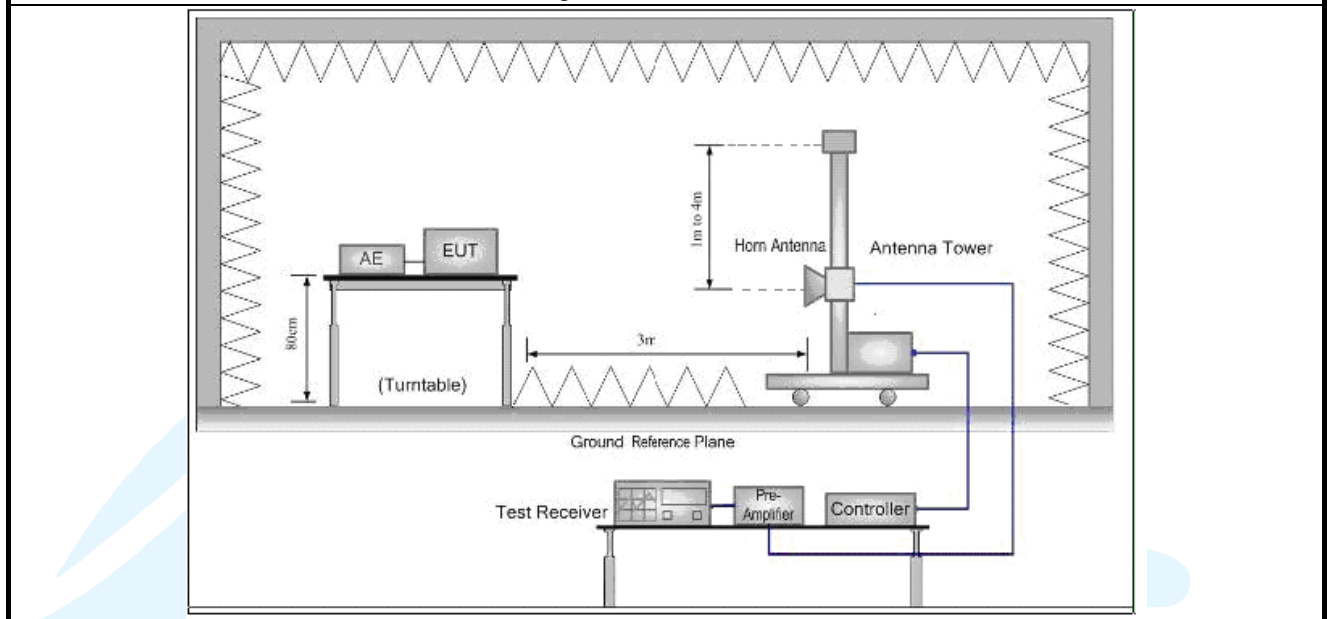


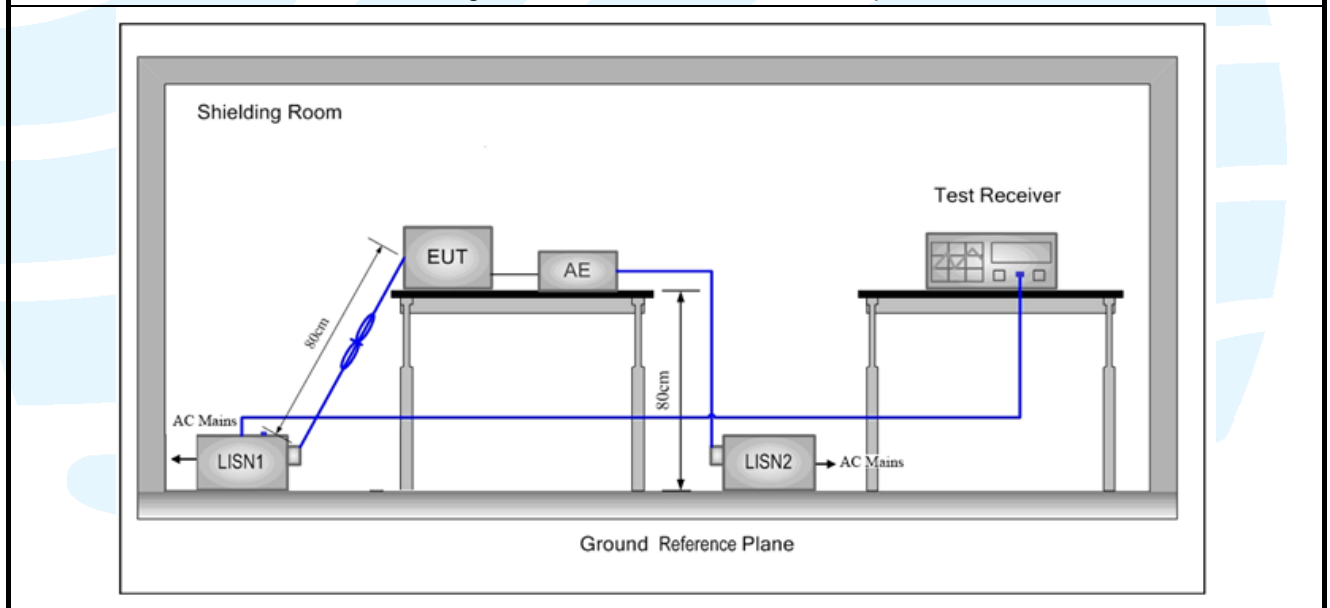


Figure 2. Above 1GHz



#### 4.3.2 For Conducted Emissions test setup

Figure 3. Conducted Emissions setup



### 4.4 SYSTEM TEST CONFIGURATION

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the fifth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

## 5. REFERENCE DOCUMENTS FOR TESTING

| No. | Identity                    | Document Title                                                                                                                                                      |
|-----|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | FCC 47 CFR Part15 Subpart B | Unintentional Radiators                                                                                                                                             |
| 2   | ANSI C63.4-2014             | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |

## 6. EMC REQUIREMENTS SPECIFICATION

### 6.1 RADIATED EMISSION

**Test Requirement:** FCC 47 CFR Part 15.109

**Test Method:** ANSI C63.4-2014

**Receiver Setup:**

| Frequency: (f)<br>(MHz) | Detector type | Measurement receiver bandwidth |         |
|-------------------------|---------------|--------------------------------|---------|
|                         |               | RBW                            | VBW     |
| $30 \leq f \leq 1\,000$ | Quasi Peak    | 120 kHz                        | 300 kHz |
| $f \geq 1000$           | Peak          | 1 MHz                          | 3 MHz   |
|                         | Average       | 1 MHz                          | 3 MHz   |

**Measured frequency range**

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz)                           |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Below 1.705                                                                                      | 30.                                                                  |
| 1.705-108                                                                                        | 1000.                                                                |
| 108-500                                                                                          | 2000.                                                                |
| 500-1000                                                                                         | 5000.                                                                |
| Above 1000                                                                                       | 5th harmonic of the highest frequency or 40 GHz, whichever is lower. |

**Limits:**

Limits for Class B devices

| Frequency (MHz) | limits at 3m (dB $\mu$ V/m) |             |             |
|-----------------|-----------------------------|-------------|-------------|
|                 | QP Detector                 | PK Detector | AV Detector |
| 30-88           | 40.0                        | --          | --          |
| 88-216          | 43.5                        | --          | --          |
| 216-960         | 46.0                        | --          | --          |
| 960 to 1000     | 54.0                        | --          | --          |
| Above 1000      | --                          | 74.0        | 54.0        |

**Note:** 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

**Remark:**

- The lower limit shall apply at the transition frequencies.
- Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

**Test Setup:** Refer to section 4.3.1 for details.

**Test Procedures:**

- From 30 MHz to 1GHz test procedure as below:

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- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- 3) For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

## 2. Above 1GHz test procedure as below:

- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- 3) For each frequency whose maximum record was higher or close to limit, measure its AV value: rotate the turntable from 0 to 360 degrees to find the degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to AV value and specified bandwidth with Maximum Hold Mode, and record the maximum value.

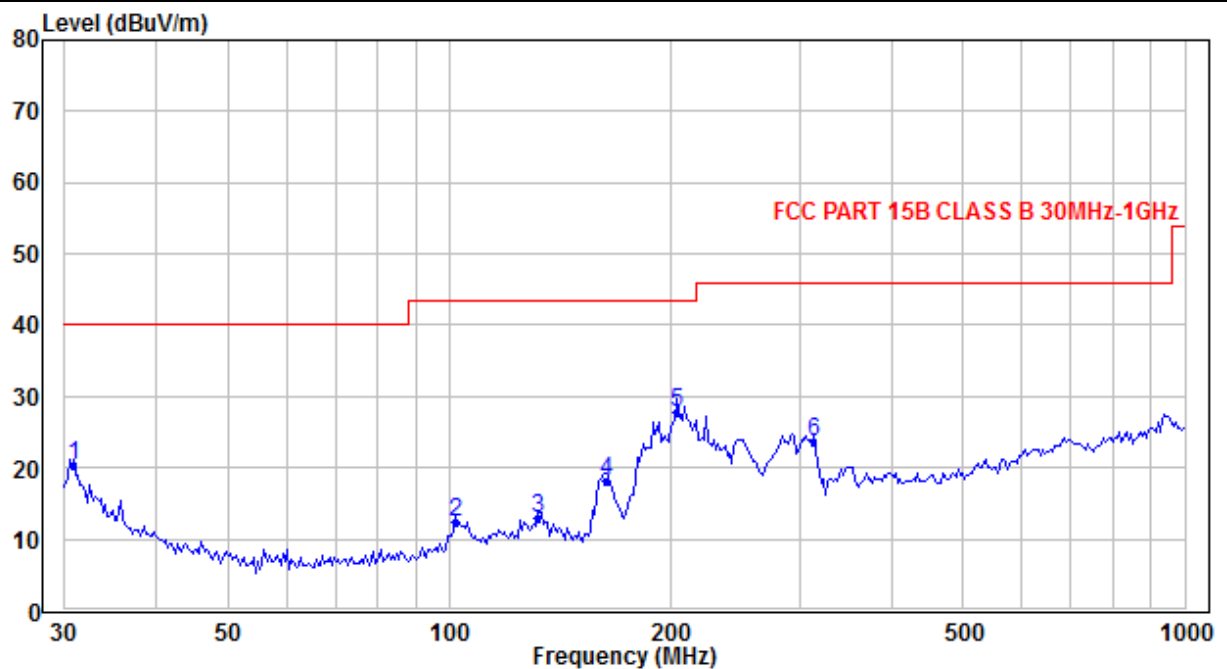
**Equipment Used:** Refer to section 3 for details.

**Test Result:** Pass

**The measurement data as follows:**

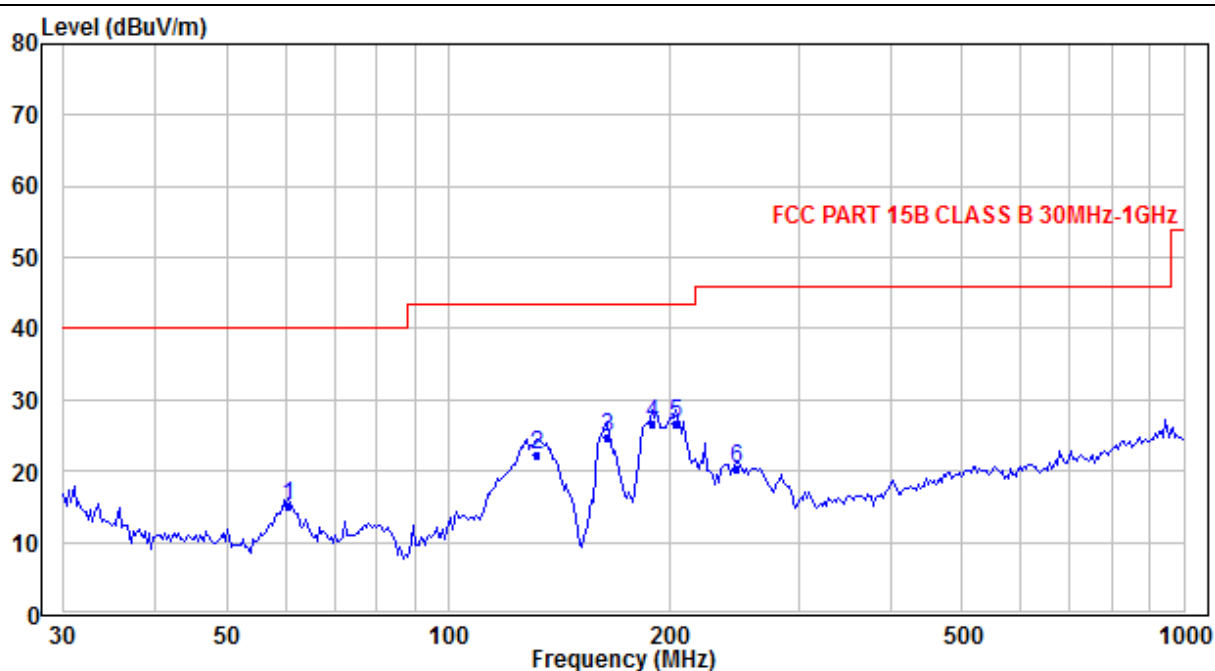
### Below 1GHz(Quasi Peak):

#### Horizontal



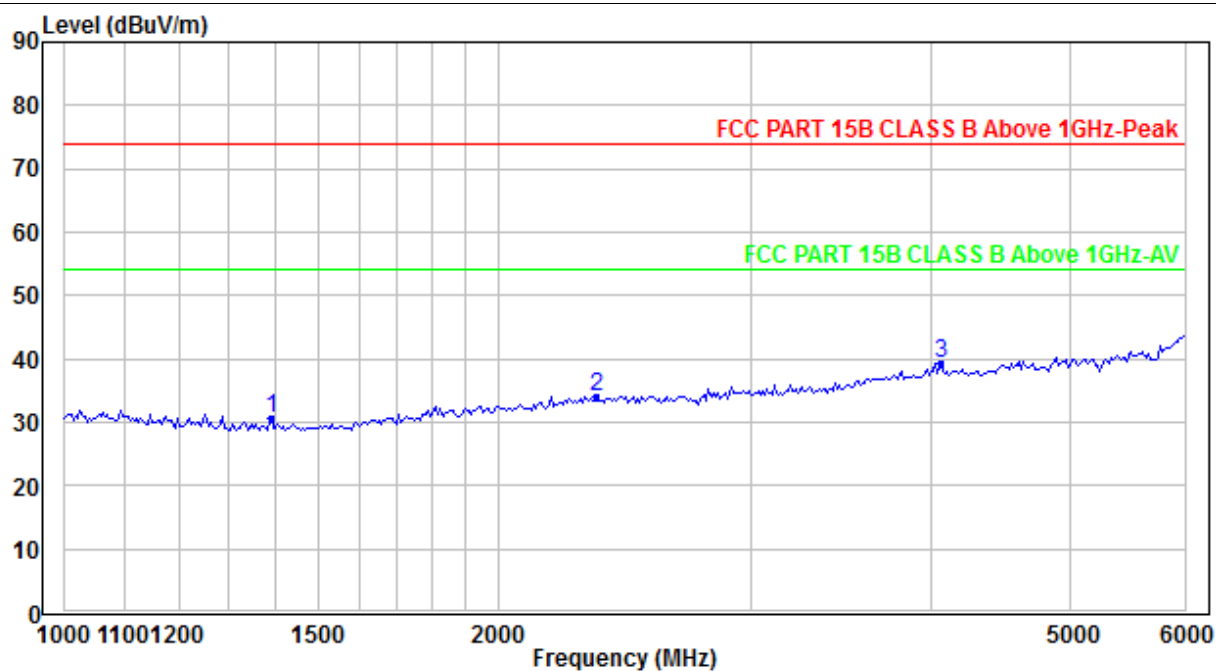
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor (dB/m ) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Rem ark |
|-----|-----------------|----------------|---------------------------|-----------------|----------------|-------------|---------|
| 1   | 30.855          | 31.93          | -11.66                    | 20.27           | 40.00          | -19.73      | QP      |
| 2*  | 101.893         | 30.43          | -17.96                    | 12.47           | 43.50          | -31.03      | QP      |
| 3   | 132.149         | 31.00          | -18.13                    | 12.87           | 43.50          | -30.63      | QP      |
| 4   | 163.162         | 34.35          | -16.07                    | 18.28           | 43.50          | -25.22      | QP      |
| 5   | 204.305         | 42.96          | -15.30                    | 27.66           | 43.50          | -15.84      | QP      |
| 6   | 313.648         | 34.62          | -10.87                    | 23.75           | 46.00          | -22.25      | QP      |

# Vertical



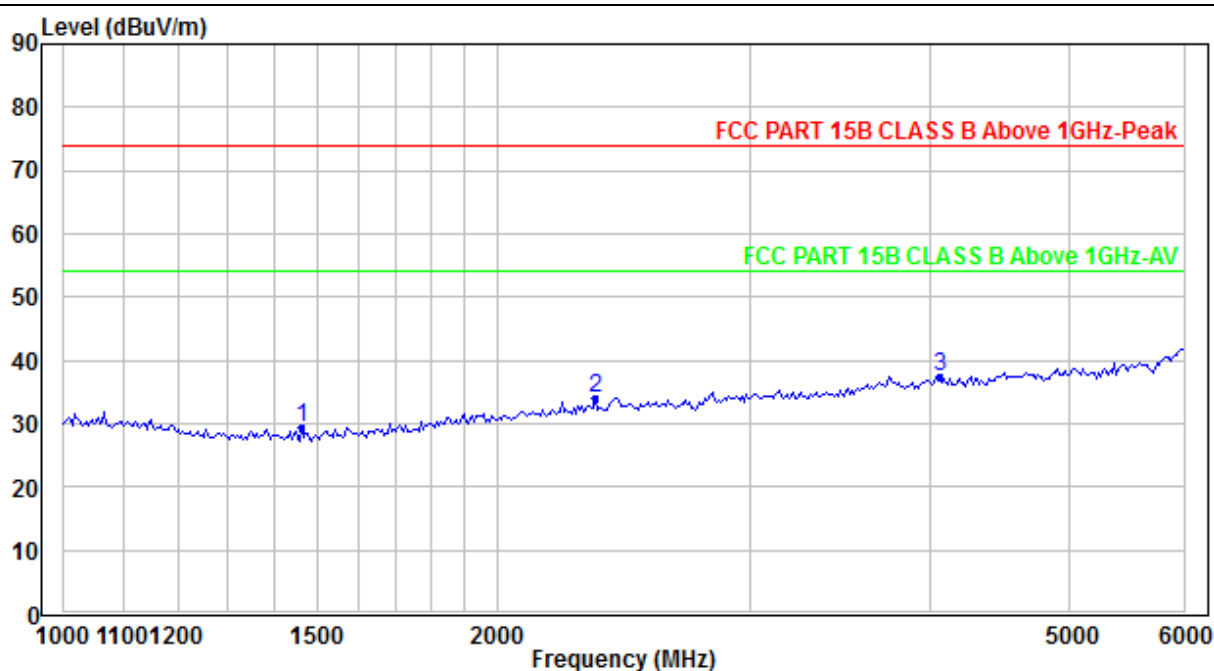
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|--------|
| 1   | 60.577          | 35.08          | -19.99                   | 15.09           | 40.00          | -24.91      | QP     |
| 2   | 132.149         | 41.40          | -19.03                   | 22.37           | 43.50          | -21.13      | QP     |
| 3   | 164.313         | 41.42          | -16.56                   | 24.86           | 43.50          | -18.64      | QP     |
| 4   | 189.108         | 42.86          | -16.31                   | 26.55           | 43.50          | -16.95      | QP     |
| 5   | 204.305         | 41.75          | -15.06                   | 26.69           | 43.50          | -16.81      | QP     |
| 6*  | 246.990         | 33.14          | -12.80                   | 20.34           | 46.00          | -25.66      | QP     |

# Above 1GHz(Peak & Average) Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor (dB/m ) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Rem ark |
|-----|-----------------|----------------|---------------------------|-----------------|----------------|-------------|---------|
| 1*  | 1391.447        | 43.71          | -13.23                    | 30.48           | 74.00          | -43.52      | Peak    |
| 2   | 2341.978        | 43.28          | -9.13                     | 34.15           | 74.00          | -39.85      | Peak    |
| 3   | 4056.713        | 43.56          | -4.30                     | 39.26           | 74.00          | -34.74      | Peak    |

# Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor (dB/m ) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Rem ark |
|-----|-----------------|----------------|---------------------------|-----------------|----------------|-------------|---------|
| 1*  | 1463.183        | 43.80          | -14.36                    | 29.44           | 74.00          | -44.56      | Peak    |
| 2   | 2341.978        | 43.98          | -9.96                     | 34.02           | 74.00          | -39.98      | Peak    |
| 3   | 4056.713        | 42.73          | -5.27                     | 37.46           | 74.00          | -36.54      | Peak    |

## Remark:

As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

Margin= Result - Limit

## 6.2 CONDUCTED EMISSION

**Test Requirement:** FCC 47 CFR Part 15.107

**Test Method:** ANSI C63.4-2014

**Limits:**

Limits for Class B devices

| Frequency range<br>(MHz) | Limits (dB(μV)) |          |
|--------------------------|-----------------|----------|
|                          | Quasi-peak      | Average  |
| 0,15 to 0,50             | 66 to 56        | 56 to 46 |
| 0,50 to 5                | 56              | 46       |
| 5 to 30                  | 60              | 50       |

**Remark:**

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

**Test Setup:** Refer to section 4.3.2 for details.

**Test Procedures:**

- 1) The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- 2) The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- 3) For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

**Equipment Used:** Refer to section 3 for details.

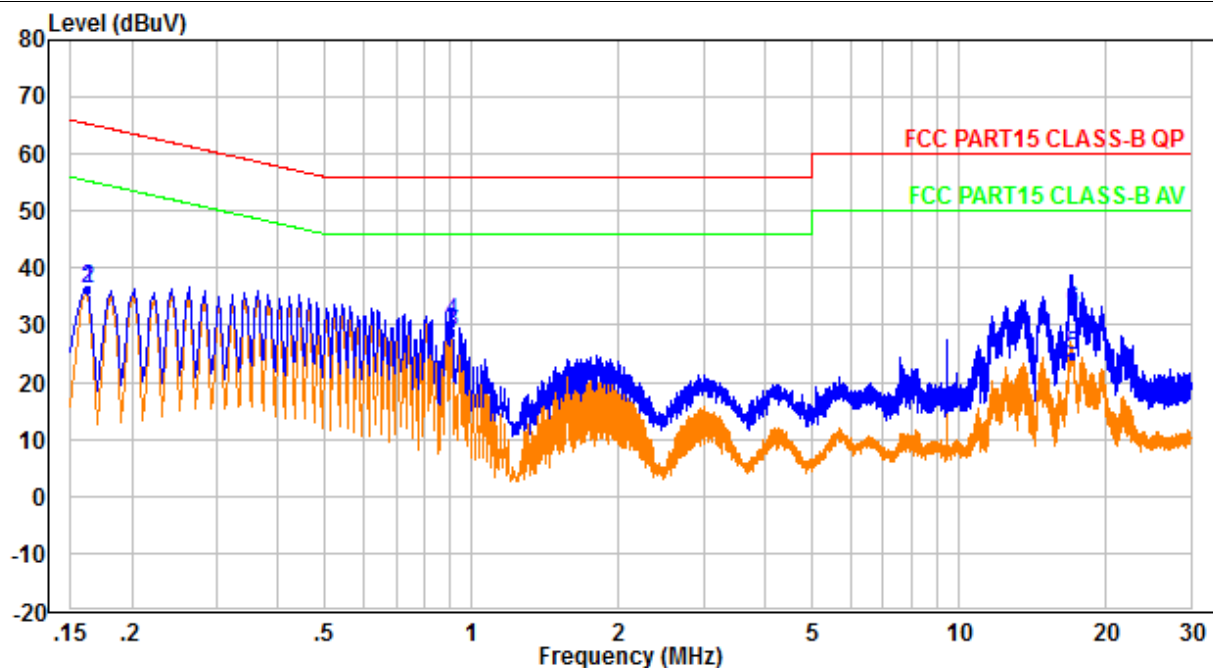
**Test Result:** Pass



The measurement data as follows:

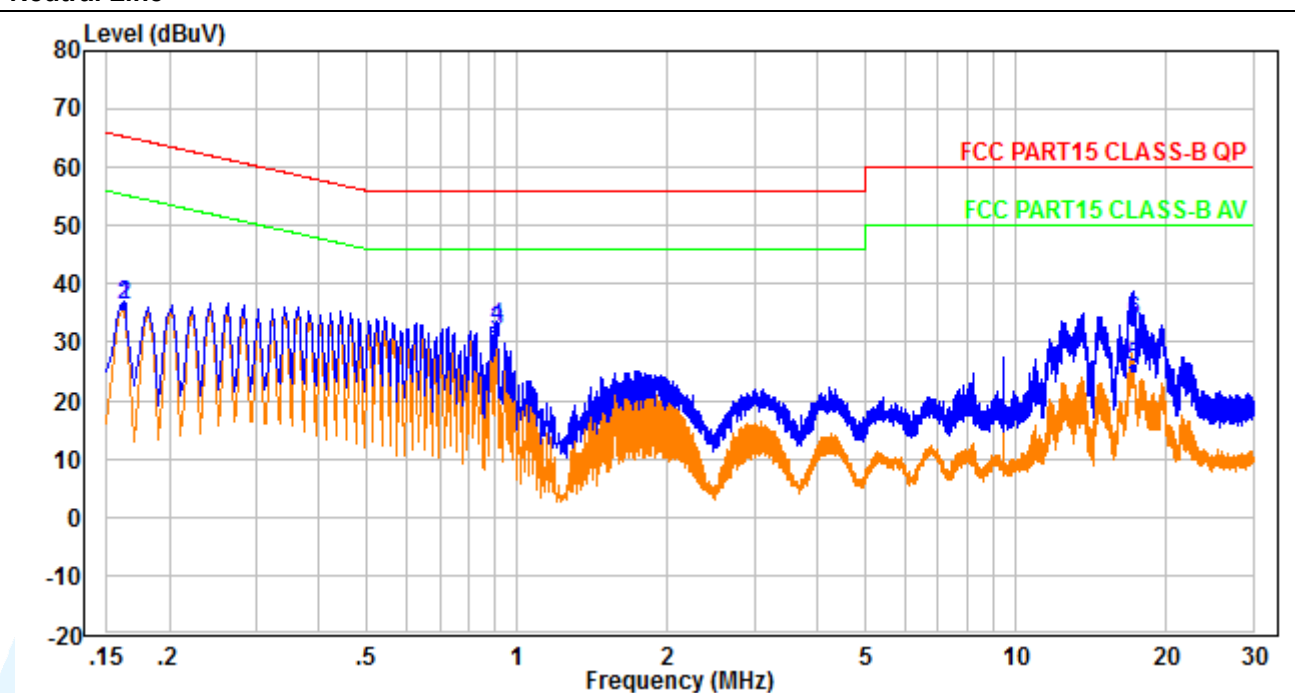
Quasi Peak and Average:

Live Line



| No. | Frequency (MHz) | Reading (dBUV) | Correction factor (dB/m ) | Result (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Remark  |
|-----|-----------------|----------------|---------------------------|-----------------|----------------|-------------|---------|
| 1   | 0.162           | 26.30          | 10.20                     | 36.50           | 55.40          | -18.90      | Average |
| 2*  | 0.162           | 26.30          | 10.20                     | 36.50           | 65.40          | -28.90      | QP      |
| 3   | 0.906           | 18.70          | 10.20                     | 28.90           | 46.00          | -17.10      | Average |
| 4   | 0.906           | 20.30          | 10.20                     | 30.50           | 56.00          | -25.50      | QP      |
| 5   | 17.089          | 12.40          | 12.30                     | 24.70           | 50.00          | -25.30      | Average |
| 6   | 17.089          | 20.20          | 12.30                     | 32.50           | 60.00          | -27.50      | QP      |

### Neutral Line



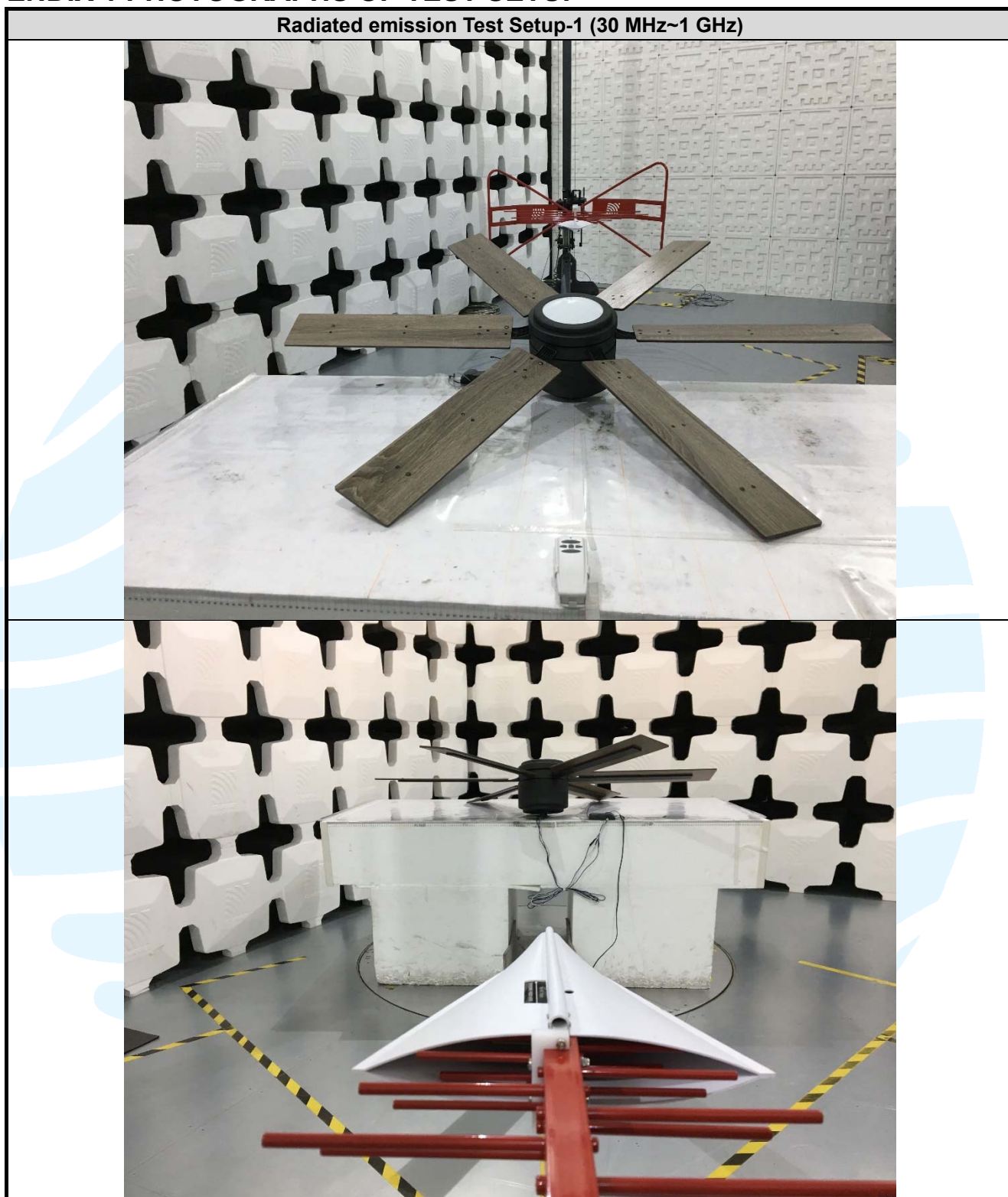
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor (dB/m ) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark  |
|-----|-----------------|----------------|---------------------------|-----------------|----------------|-------------|---------|
| 1   | 0.162           | 26.10          | 10.20                     | 36.30           | 55.40          | -19.10      | Average |
| 2*  | 0.162           | 26.10          | 10.20                     | 36.30           | 65.40          | -29.10      | QP      |
| 3   | 0.906           | 21.60          | 10.40                     | 32.00           | 46.00          | -14.00      | Average |
| 4   | 0.906           | 22.10          | 10.40                     | 32.50           | 56.00          | -23.50      | QP      |
| 5   | 17.257          | 13.20          | 12.40                     | 25.60           | 50.00          | -24.40      | Average |
| 6   | 17.257          | 21.40          | 12.40                     | 33.80           | 60.00          | -26.20      | QP      |

#### Remark:

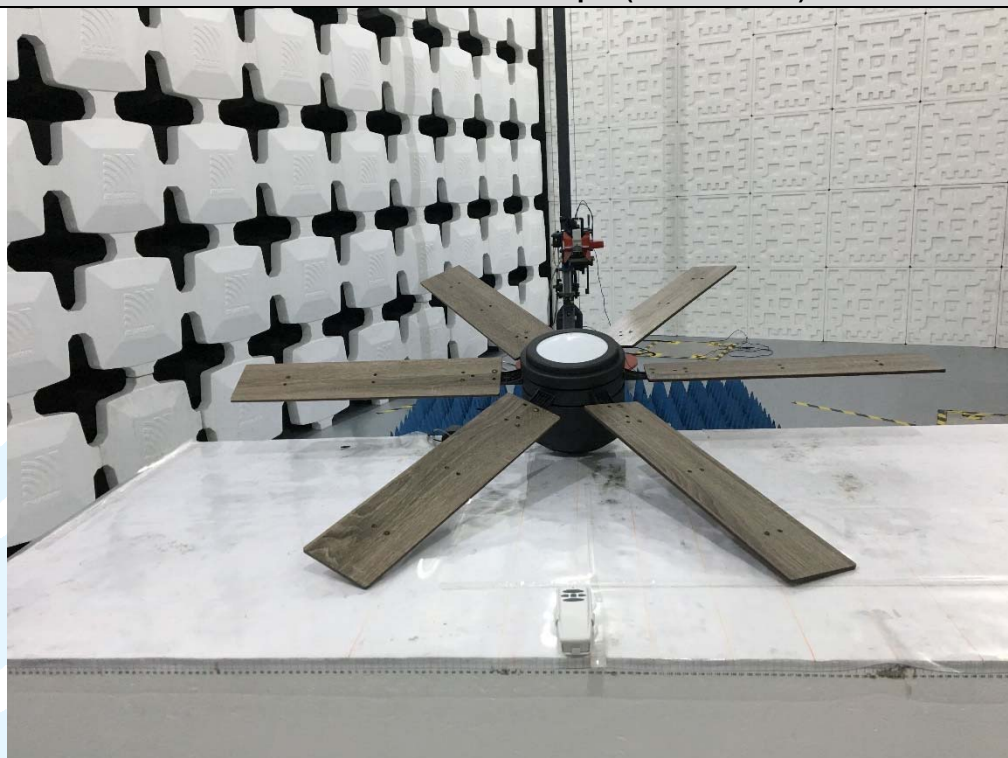
An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Margin= Result - Limit

## APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

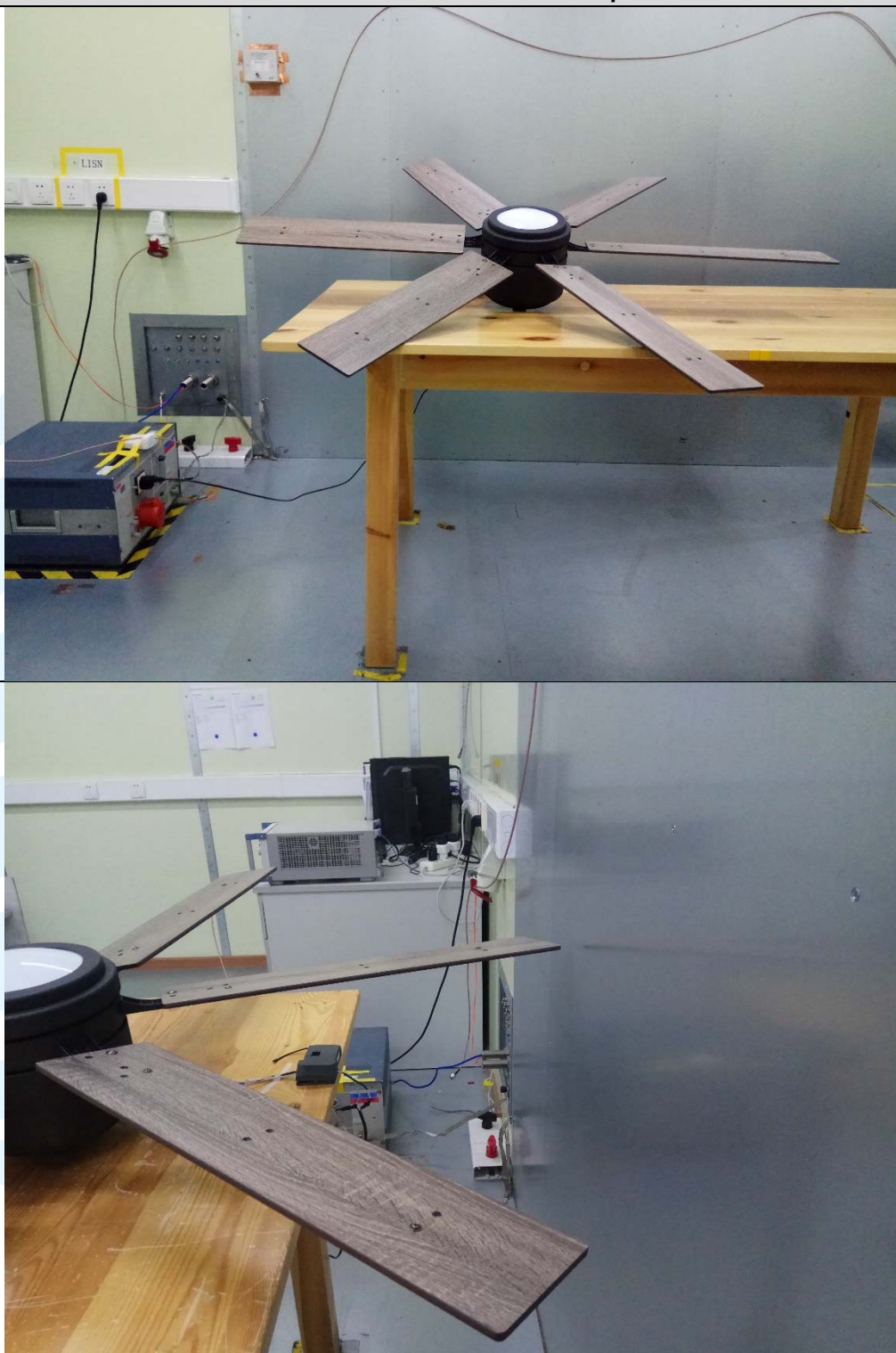


Radiated emission Test Setup-2 (Above 1 GHz)



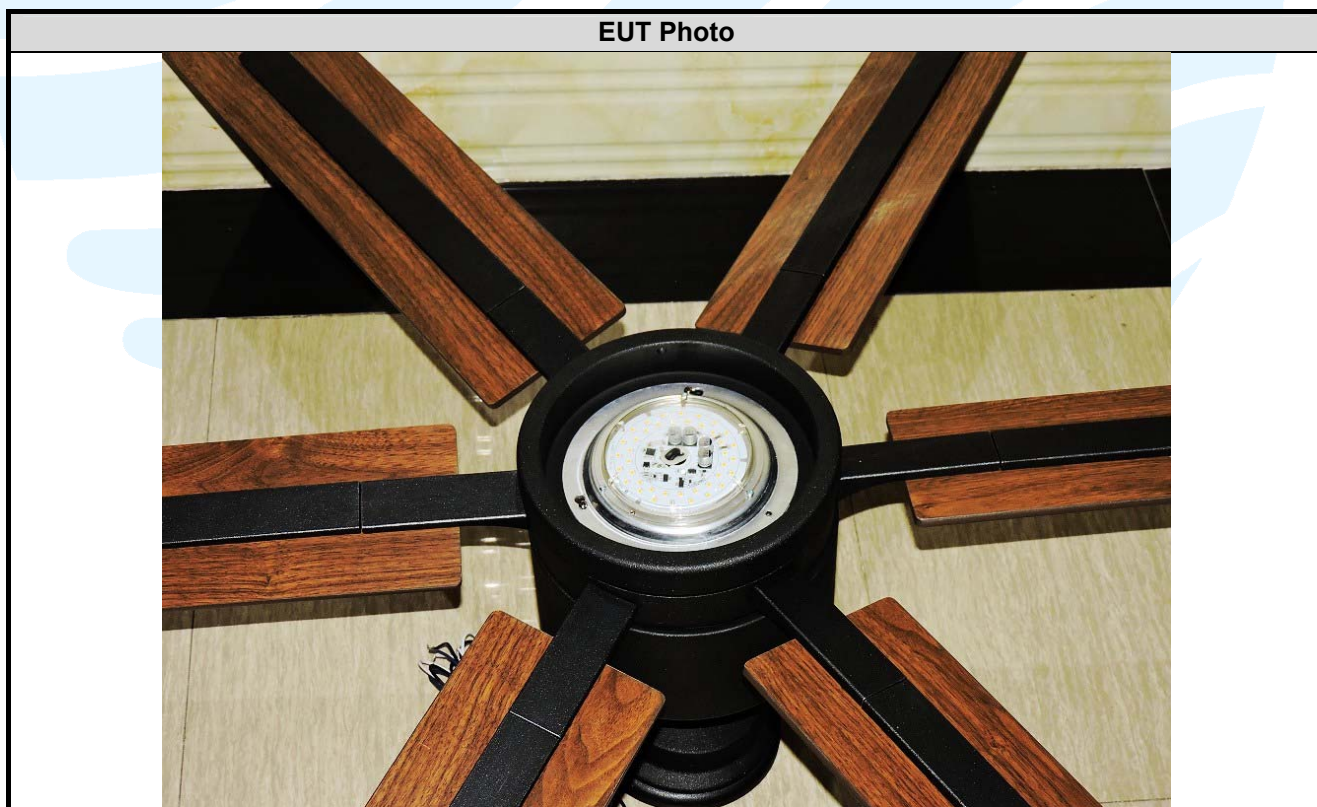
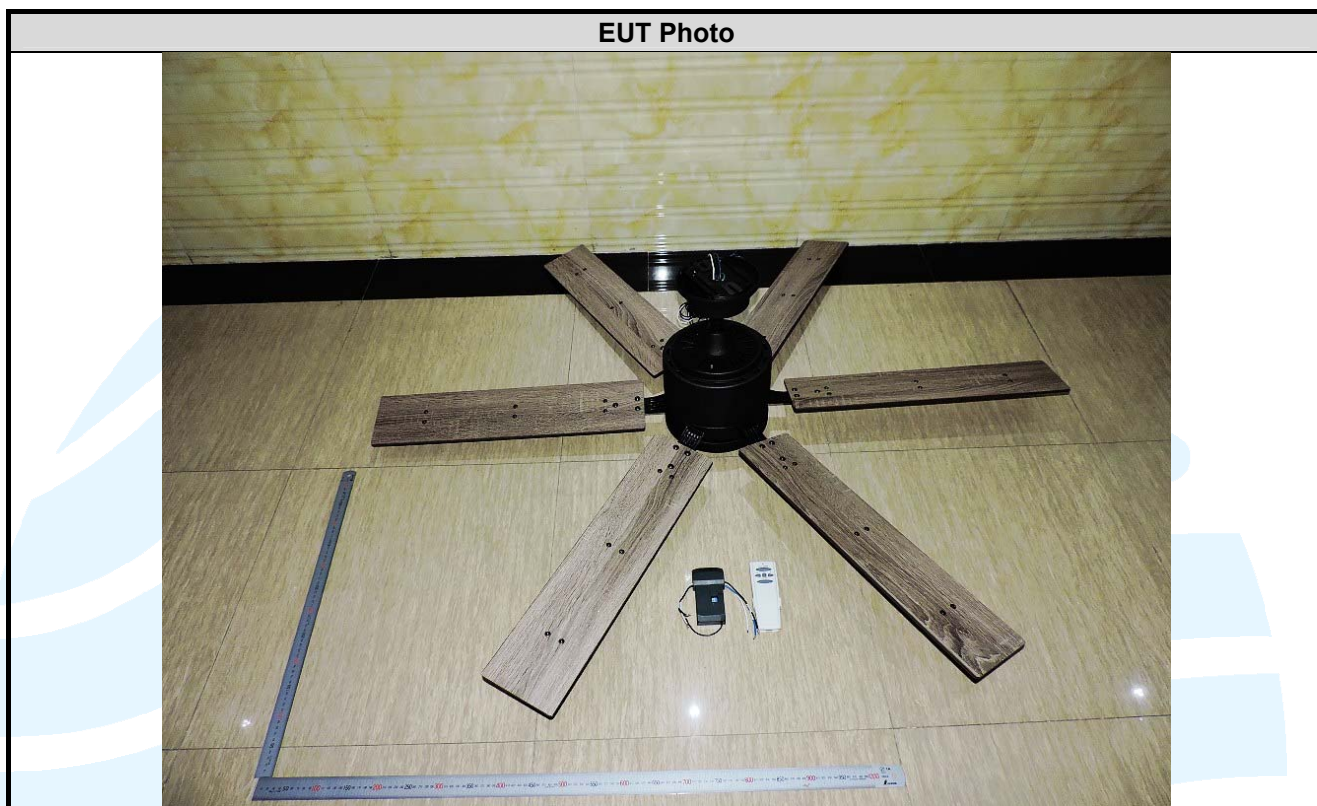


Conducted Emission Test Setup-3



## APPENDIX 2 PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

## EUT EXTERNAL PHOTOS





EUT Photo



EUT Photo





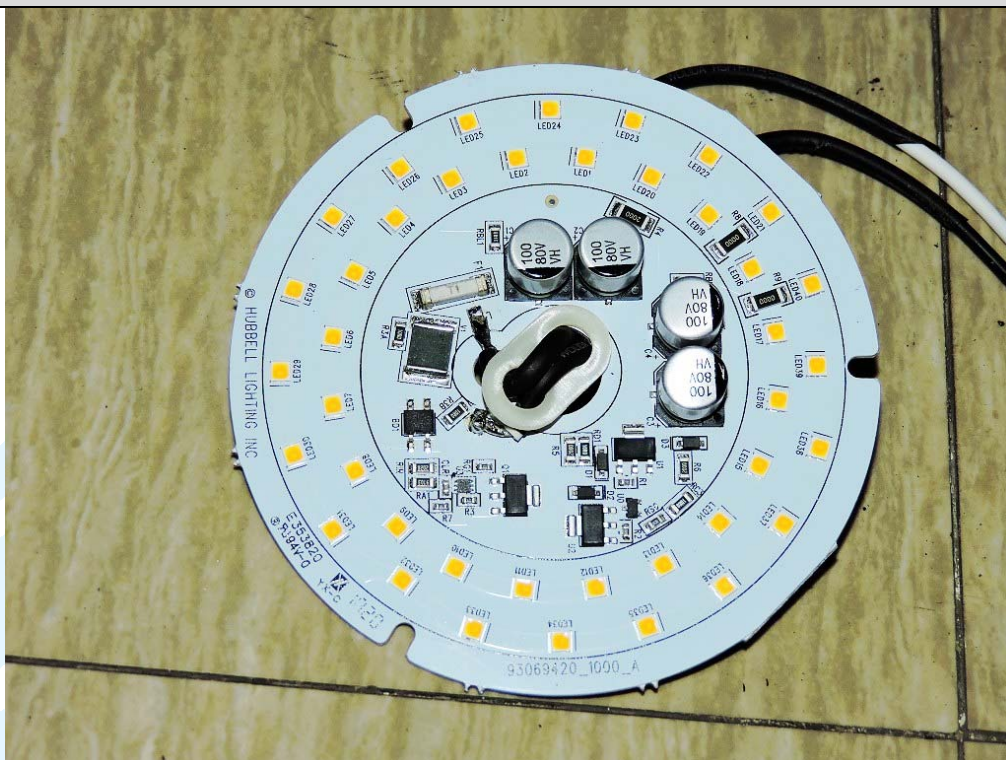
**EUT Photo**

EUT Photo





EUT Photo



EUT Photo





EUT Photo

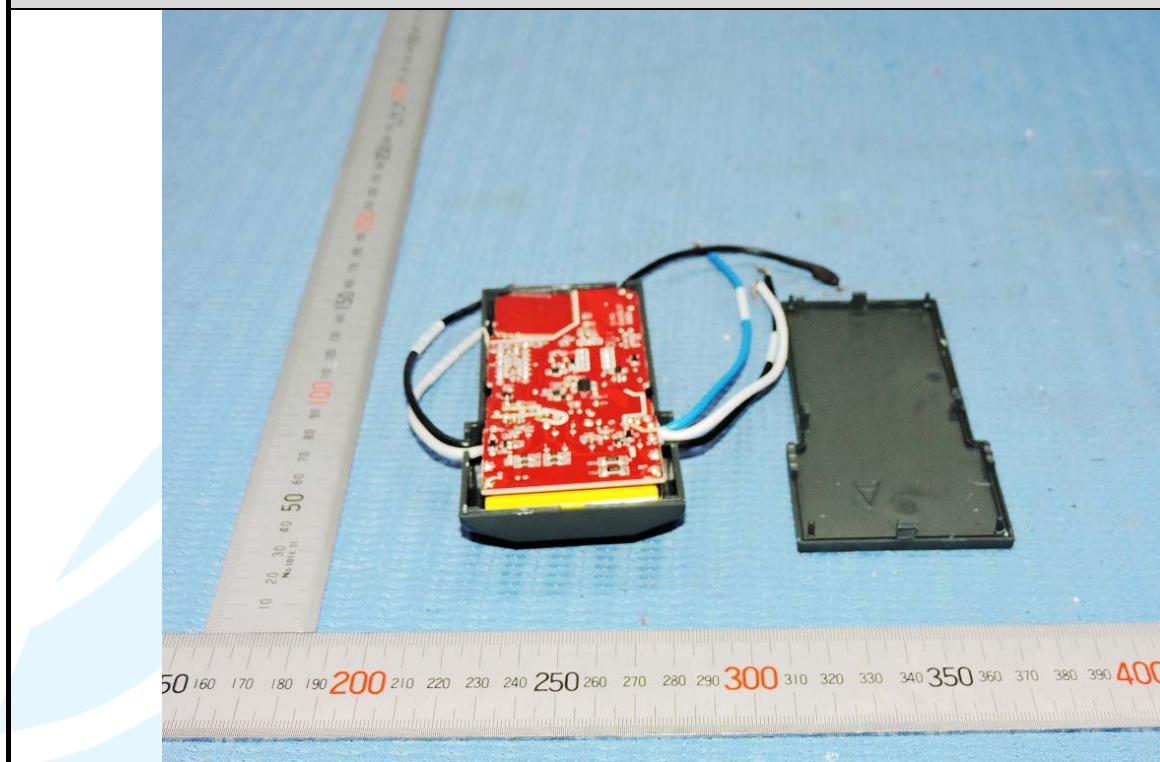


EUT Photo

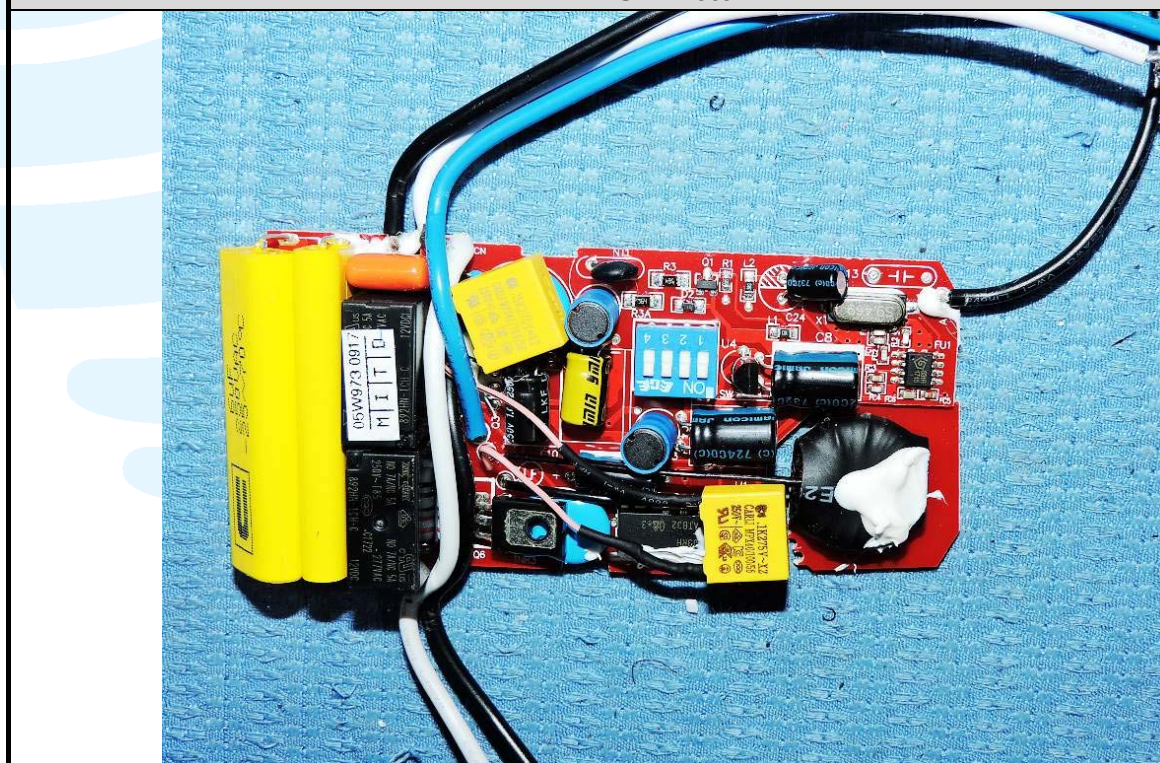




EUT Photo

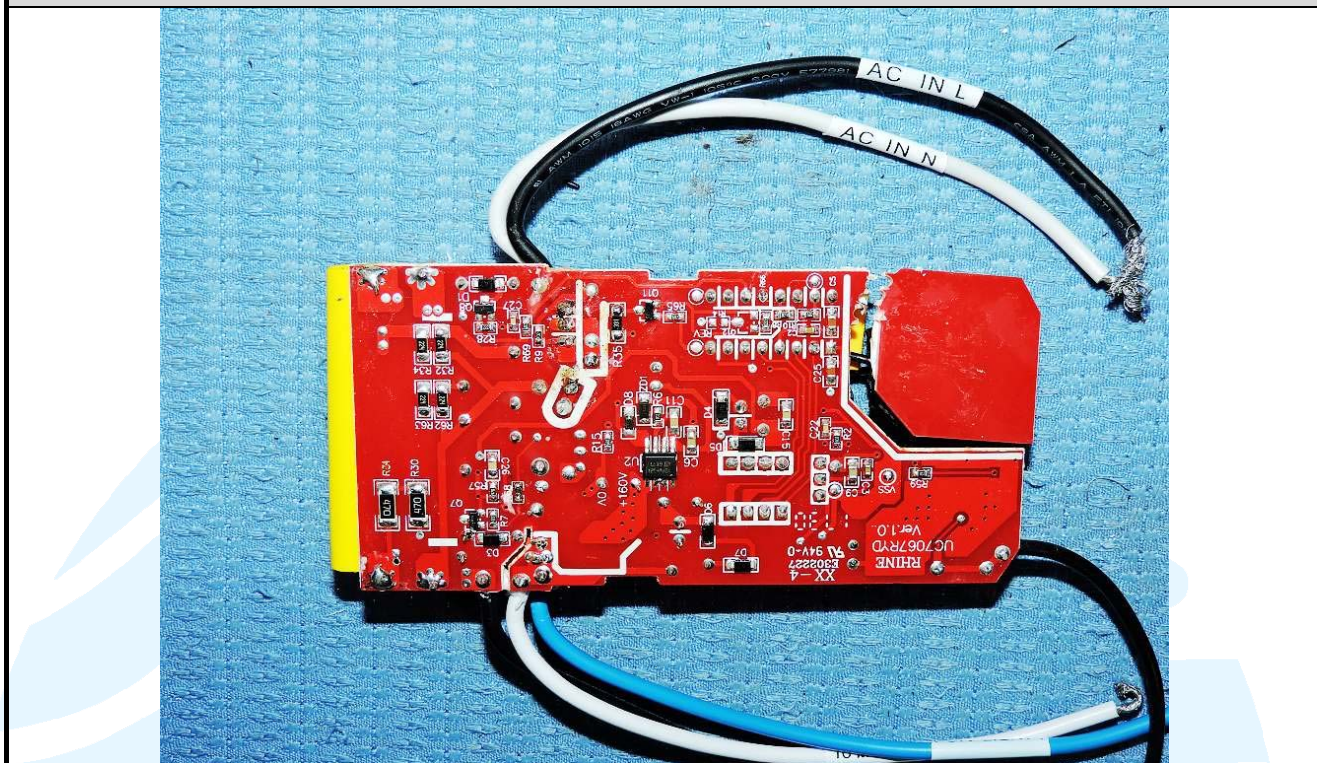


EUT Photo





EUT Photo



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

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