

# FCC TEST REPORT

For

Shenzhen Feihe Electronics Co., Ltd

LED table lamp

Model No.: U13Q, IH-QI6004B, IH-QI6004W

Prepared For : Shenzhen Feihe Electronics Co., Ltd  
Address : 3/F,Bldg 3, HongFa Innovative Park HuangMaBu Community, Baoan  
District, Shenzhen, China 518101

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Report Number : SZAWW180710003-01

Date of Test : Jul. 10~Aug. 01, 2018

Date of Report : Aug. 01, 2018

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# TEST REPORT

Applicant : Shenzhen Feihe Electronics Co., Ltd  
Manufacturer : Shenzhen Feihe Electronics Co., Ltd  
Product Name : LED table lamp  
Model No. : U13Q, IH-QI6004B, IH-QI6004W  
Trade Mark : N.A.  
Rating(s) : Input: DC 12V, 1.5A  
(via adapter input: AC 100~240V, 50/60Hz, 0.6A; output: DC 12V, 1.5A)  
Wireless output: 5W  
  
Test Standard(s) : FCC Part15 Subpart C 2017, Paragraph 15.209  
Test Method(s) : ANSI C63.10: 2013

The device described above is tested by Shenzhen Anbotech Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotech Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotech Compliance Laboratory Limited.

Date of Test Jul. 10~Aug. 01, 2018

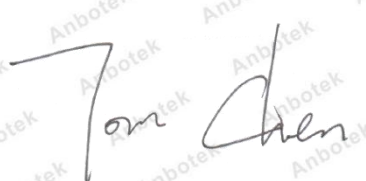
Prepared by

  
(Engineer / Oliay Yang)

Reviewer

  
(Supervisor / Calvin Liu)

Approved & Authorized Signer

  
(Manager / Tom Chen)

## 1. General Information

### 1.1. Client Information

|              |   |                                                                                                |
|--------------|---|------------------------------------------------------------------------------------------------|
| Applicant    | : | Shenzhen Feihe Electronics Co., Ltd                                                            |
| Address      | : | 3/F,Bldg 3, HongFa Innovative Park HuangMaBu Community, Baoan District, Shenzhen, China 518101 |
| Manufacturer | : | Shenzhen Feihe Electronics Co., Ltd                                                            |
| Address      | : | 3/F,Bldg 3, HongFa Innovative Park HuangMaBu Community, Baoan District, Shenzhen, China 518101 |

### 1.2. Description of Device (EUT)

|                                                                                                                              |                      |                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                                                                                                                 | :                    | LED table lamp                                                                                                                         |
| Model No.                                                                                                                    | :                    | U13Q, IH-QI6004B, IH-QI6004W<br>(Note: All samples are the same except the colour and model name, so we prepare "U13Q" for test only.) |
| Trade Mark                                                                                                                   | :                    | N.A.                                                                                                                                   |
| Test Power Supply                                                                                                            | :                    | AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter                                                                                  |
| Test Sample No.                                                                                                              | :                    | S1, S2                                                                                                                                 |
| Product Description                                                                                                          | Operation Frequency: | 111-205KHz                                                                                                                             |
|                                                                                                                              | Number of Channel:   | 20 Channels                                                                                                                            |
|                                                                                                                              | Modulation Type:     | MSK                                                                                                                                    |
|                                                                                                                              | Antenna Type:        | Loop Antenna                                                                                                                           |
|                                                                                                                              | Antenna Gain(Peak):  | 0 dBi                                                                                                                                  |
| Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |                      |                                                                                                                                        |

### 1.3. Auxiliary Equipment Used During Test

|         |   |                                                                             |
|---------|---|-----------------------------------------------------------------------------|
| Adapter | : | Model: K25V120150U<br>Input: 100-240V~ 50/60Hz 0.6A<br>Output: 12.0V== 1.5A |
|---------|---|-----------------------------------------------------------------------------|

#### 1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description              |
|--------------|--------------------------|
| Mode 1       | CH01                     |
| Mode 2       | CH10                     |
| Mode 3       | CH20                     |
| Mode 4       | Keeping TX+Charging mode |

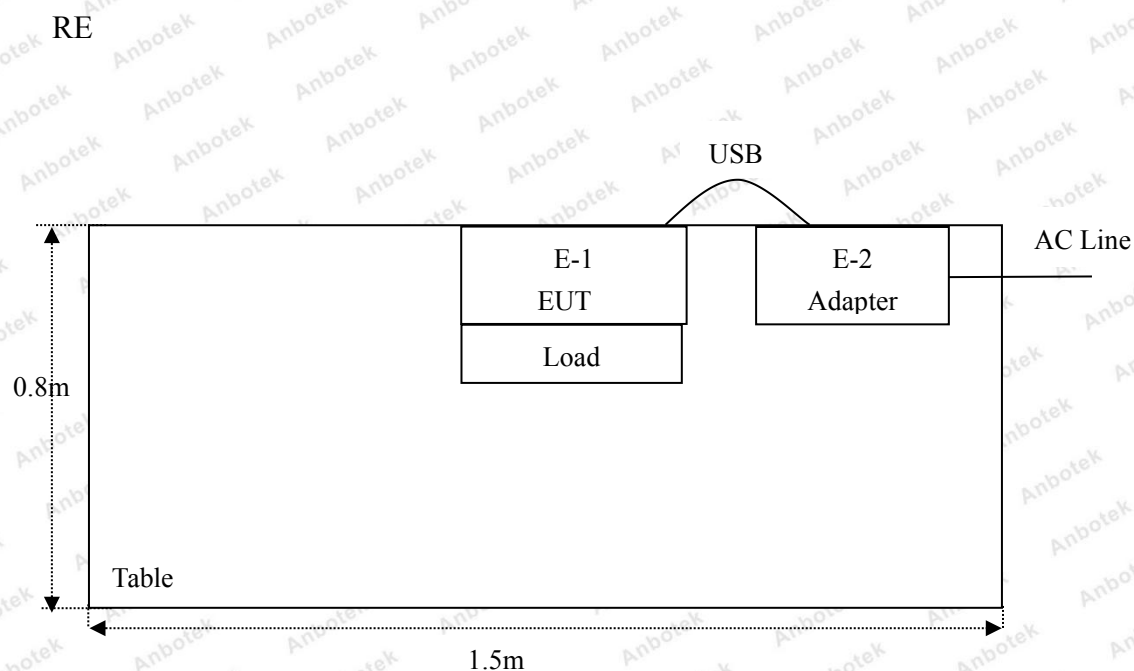
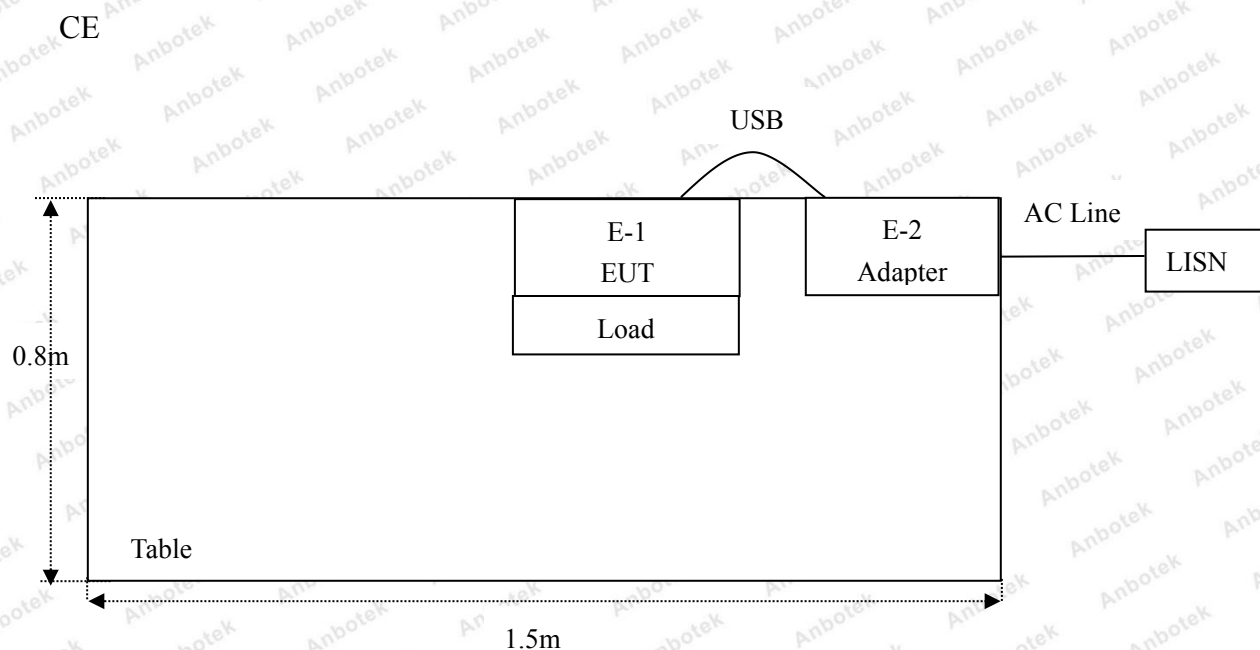
| For Conducted Emission |                          |
|------------------------|--------------------------|
| Final Test Mode        | Description              |
| Mode 4                 | Keeping TX+Charging mode |

| For Radiated Emission |                          |
|-----------------------|--------------------------|
| Final Test Mode       | Description              |
| Mode 1                | CH01                     |
| Mode 2                | CH10                     |
| Mode 3                | CH20                     |
| Mode 4                | Keeping TX+Charging mode |

#### 1.5. List of channels

| Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 1       | 0.111          | 6       | 0.135          | 11      | 0.160          | 16      | 0.185          |
| 2       | 0.115          | 7       | 0.140          | 12      | 0.165          | 17      | 0.190          |
| 3       | 0.120          | 8       | 0.145          | 13      | 0.170          | 18      | 0.195          |
| 4       | 0.125          | 9       | 0.150          | 14      | 0.175          | 19      | 0.200          |
| 5       | 0.130          | 10      | 0.155          | 15      | 0.180          | 20      | 0.205          |

## 1.6. Description Of Test Setup



## 1.7. Test Equipment List

| Item | Equipment                                | Manufacturer               | Model No.  | Serial No.    | Last Cal.     | Cal. Interval |
|------|------------------------------------------|----------------------------|------------|---------------|---------------|---------------|
| 1.   | L.I.S.N.<br>Artificial Mains<br>Network  | Rohde & Schwarz            | ENV216     | 100055        | Nov. 17, 2017 | 1 Year        |
| 2.   | EMI Test Receiver                        | Rohde & Schwarz            | ESCI       | 100627        | Nov. 17, 2017 | 1 Year        |
| 3.   | RF Switching Unit                        | Compliance<br>Direction    | RSU-M2     | 38303         | Nov. 17, 2017 | 1 Year        |
| 4.   | Spectrum Analysis                        | Agilent                    | E4407B     | US39390582    | Nov. 17, 2017 | 1 Year        |
| 5.   | Spectrum Analysis                        | Agilent                    | N9038A     | MY53227295    | Nov. 17, 2017 | 1 Year        |
| 6.   | Preamplifier                             | SKET Electronic            | BK1G18G30D | KD17503       | Nov. 17, 2017 | 1 Year        |
| 7.   | EMI Test Receiver                        | Rohde & Schwarz            | ESCI       | 100627        | Nov. 17, 2017 | 1 Year        |
| 8.   | Double Ridged Horn<br>Antenna            | Instruments<br>corporation | GTH-0118   | 351600        | Nov. 20, 2017 | 1 Year        |
| 9.   | Bilog Broadband<br>Antenna               | Schwarzbeck                | VULB9163   | VULB 9163-289 | Nov. 20, 2017 | 1 Year        |
| 10.  | Loop Antenna                             | Schwarzbeck                | HFH2-Z2    | 100047        | Nov. 17, 2017 | 1 Year        |
| 11.  | Horn Antenna                             | Schwarzbeck                | BBHA9170   | 9170-375      | Nov. 17, 2017 | 1 Year        |
| 12.  | Pre-amplifier                            | SONOMA                     | 310N       | 186860        | Nov. 17, 2017 | 1 Year        |
| 13.  | EMI Test Software<br>EZ-EMC              | SHURPLE                    | N/A        | N/A           | N/A           | N/A           |
| 14.  | RF Test Control<br>System                | YIHENG                     | YH3000     | 2017430       | Nov. 18, 2017 | 1 Year        |
| 15.  | Power Sensor                             | DAER                       | RPR3006W   | 15I00041SN045 | Nov. 17, 2017 | 1 Year        |
| 16.  | Power Sensor                             | DAER                       | RPR3006W   | 15I00041SN046 | Nov. 17, 2017 | 1 Year        |
| 17.  | MXA Spectrum<br>Analysis                 | Agilent                    | N9020A     | MY51170037    | Nov. 18, 2017 | 1 Year        |
| 18.  | MXG RF Vector<br>Signal Generator        | Agilent                    | N5182A     | MY48180656    | Nov. 18, 2017 | 1 Year        |
| 19.  | Signal Generator                         | Agilent                    | E4421B     | MY41000743    | Nov. 18, 2017 | 1 Year        |
| 20.  | DC Power Supply                          | LW                         | TPR-6410D  | 349315        | Nov. 01, 2017 | 1 Year        |
| 21.  | Constant Temperature<br>Humidity Chamber | Sertep                     | ZJ-HWHS80B | ZJ-17042804   | Nov. 01, 2017 | 1 Year        |

### 1.8. Measurement Uncertainty

|                        |   |                          |
|------------------------|---|--------------------------|
| Radiation Uncertainty  | : | Ur = 3.9 dB (Horizontal) |
|                        |   | Ur = 3.8 dB (Vertical)   |
|                        |   |                          |
| Conduction Uncertainty | : | Uc = 3.4 dB              |

### 1.9. Description of Test Facility

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

#### FCC-Registration No.: 184111

Shenzhen Anbotech Compliance Laboratory Limited, 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. 184111, July 31, 2017.

#### ISED-Registration No.: 8058A-1

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

#### Test Location

All Emissions tests were performed at Shenzhen Anbotech Compliance Laboratory Limited. at 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

## 2. Summary of Test Results

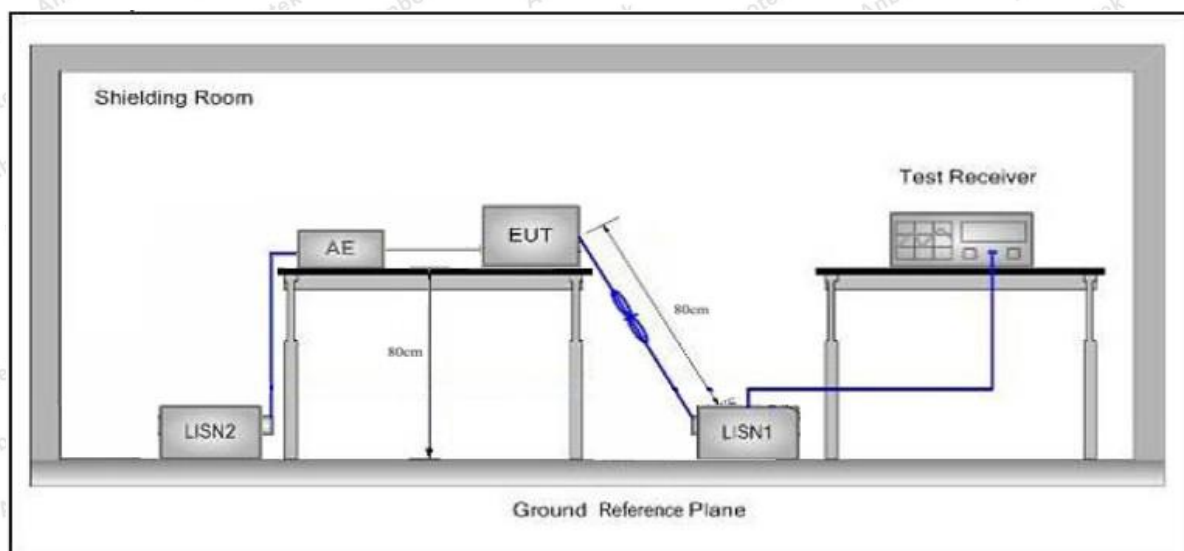
| Standard Section                    | Test Item               | Result |
|-------------------------------------|-------------------------|--------|
| FCC Part 15, Paragraph 15.207       | Conducted Emission Test | PASS   |
| FCC Part 15, Paragraph 15.209(a)(f) | Spurious Emission       | PASS   |

### 3. Conducted Emission Test

#### 3.1. Test Standard and Limit

| Test Standard                                                                                                                            | FCC Part15 Section 15.207 |                                |               |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------|---------------|
| Test Limit                                                                                                                               | Frequency                 | Maximum RF Line Voltage (dBuV) |               |
|                                                                                                                                          |                           | Quasi-peak Level               | Average Level |
|                                                                                                                                          | 150kHz~500kHz             | 66 ~ 56 *                      | 56 ~ 46 *     |
|                                                                                                                                          | 500kHz~5MHz               | 56                             | 46            |
|                                                                                                                                          | 5MHz~30MHz                | 60                             | 50            |
| <b>Remark:</b> (1) *Decreasing linearly with logarithm of the frequency.<br>(2) The lower limit shall apply at the transition frequency. |                           |                                |               |

#### 3.2. Test Setup



#### 3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

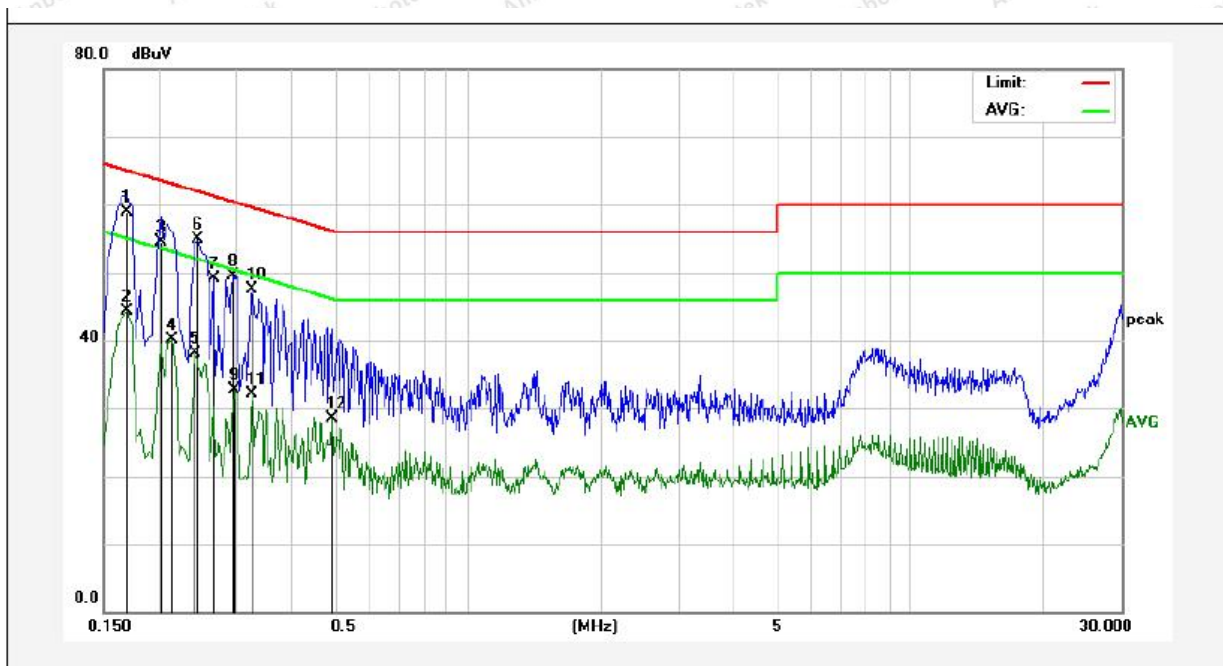
The frequency range from 150kHz to 30MHz is checked.

#### 3.4. Test Data

Please to see the following pages

## Conducted Emission Test Data

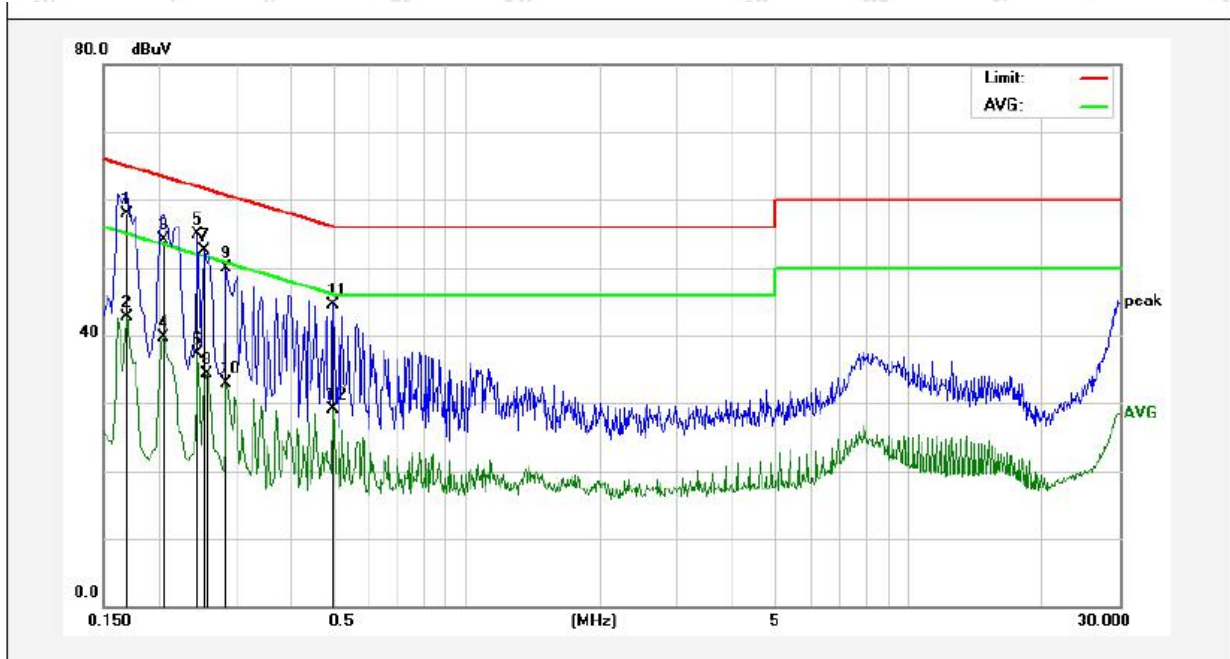
Test Site: 1# Shielded Room  
Operating Condition: Keeping TX+Charging mode  
Test Specification: AC 240V, 60Hz for adapter  
Comment: Live Line  
Tem.: 22.2℃ Hum.: 60%



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|------------|-----------------|----------|--------|
| 1   | 0.1700      | 38.95          | 19.90       | 58.85         | 64.96      | -6.11           | QP       |        |
| 2   | 0.1700      | 24.43          | 19.90       | 44.33         | 54.96      | -10.63          | AVG      |        |
| 3   | 0.2020      | 34.68          | 19.90       | 54.58         | 63.52      | -8.94           | QP       |        |
| 4   | 0.2140      | 20.23          | 19.90       | 40.13         | 53.04      | -12.91          | AVG      |        |
| 5   | 0.2420      | 18.12          | 19.89       | 38.01         | 52.02      | -14.01          | AVG      |        |
| 6   | 0.2460      | 35.08          | 19.89       | 54.97         | 61.89      | -6.92           | QP       |        |
| 7   | 0.2660      | 29.21          | 19.89       | 49.10         | 61.24      | -12.14          | QP       |        |
| 8   | 0.2940      | 29.54          | 19.89       | 49.43         | 60.41      | -10.98          | QP       |        |
| 9   | 0.2980      | 12.78          | 19.89       | 32.67         | 50.30      | -17.63          | AVG      |        |
| 10  | 0.3260      | 27.52          | 19.90       | 47.42         | 59.55      | -12.13          | QP       |        |
| 11  | 0.3260      | 12.15          | 19.90       | 32.05         | 49.55      | -17.50          | AVG      |        |
| 12  | 0.4940      | 8.61           | 19.98       | 28.59         | 46.10      | -17.51          | AVG      |        |

### Conducted Emission Test Data

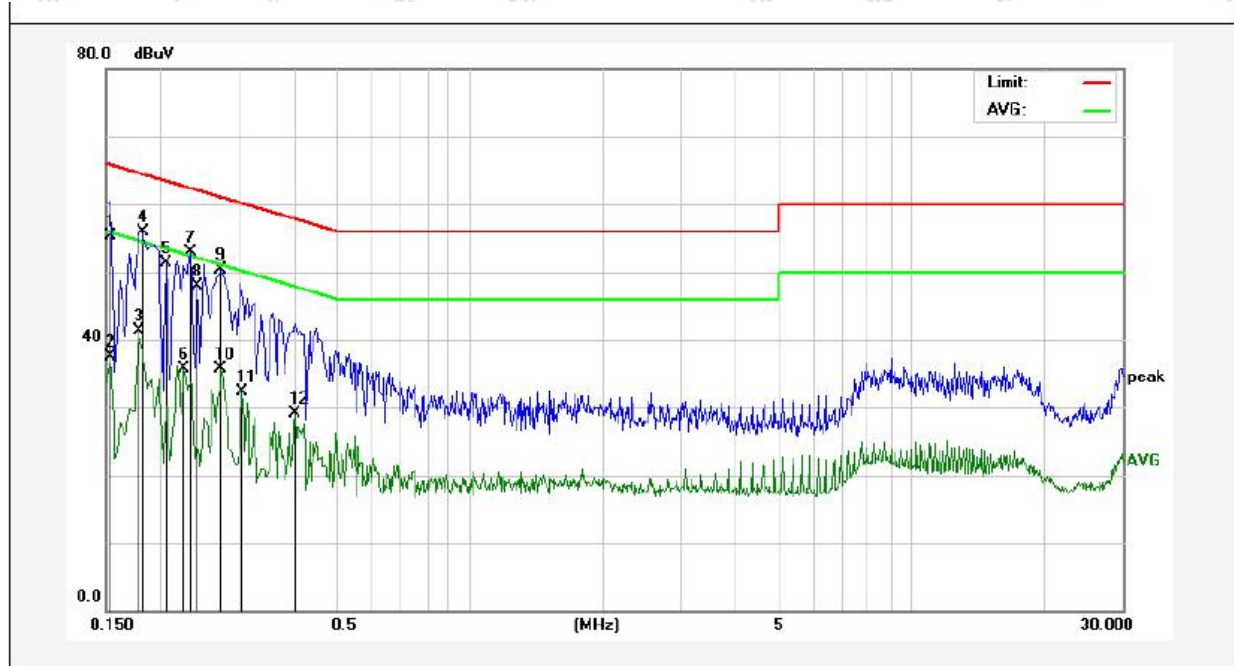
Test Site: 1# Shielded Room  
Operating Condition: Keeping TX+Charging mode  
Test Specification: AC 240V, 60Hz for adapter  
Comment: Neutral Line  
Tem.: 22.2°C Hum.: 60%



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|------------|-----------------|----------|--------|
| 1   | 0.1700      | 37.94          | 19.90       | 57.84         | 64.96      | -7.12           | QP       |        |
| 2   | 0.1700      | 22.76          | 19.90       | 42.66         | 54.96      | -12.30          | AVG      |        |
| 3   | 0.2060      | 34.22          | 19.90       | 54.12         | 63.36      | -9.24           | QP       |        |
| 4   | 0.2060      | 19.89          | 19.90       | 39.79         | 53.36      | -13.57          | AVG      |        |
| 5   | 0.2460      | 35.06          | 19.89       | 54.95         | 61.89      | -6.94           | QP       |        |
| 6   | 0.2460      | 17.50          | 19.89       | 37.39         | 51.89      | -14.50          | AVG      |        |
| 7   | 0.2540      | 32.54          | 19.89       | 52.43         | 61.62      | -9.19           | QP       |        |
| 8   | 0.2580      | 14.47          | 19.89       | 34.36         | 51.49      | -17.13          | AVG      |        |
| 9   | 0.2860      | 29.99          | 19.89       | 49.88         | 60.64      | -10.76          | QP       |        |
| 10  | 0.2860      | 13.00          | 19.89       | 32.89         | 50.64      | -17.75          | AVG      |        |
| 11  | 0.4980      | 24.62          | 19.98       | 44.60         | 56.03      | -11.43          | QP       |        |
| 12  | 0.4980      | 9.15           | 19.98       | 29.13         | 46.03      | -16.90          | AVG      |        |

### Conducted Emission Test Data

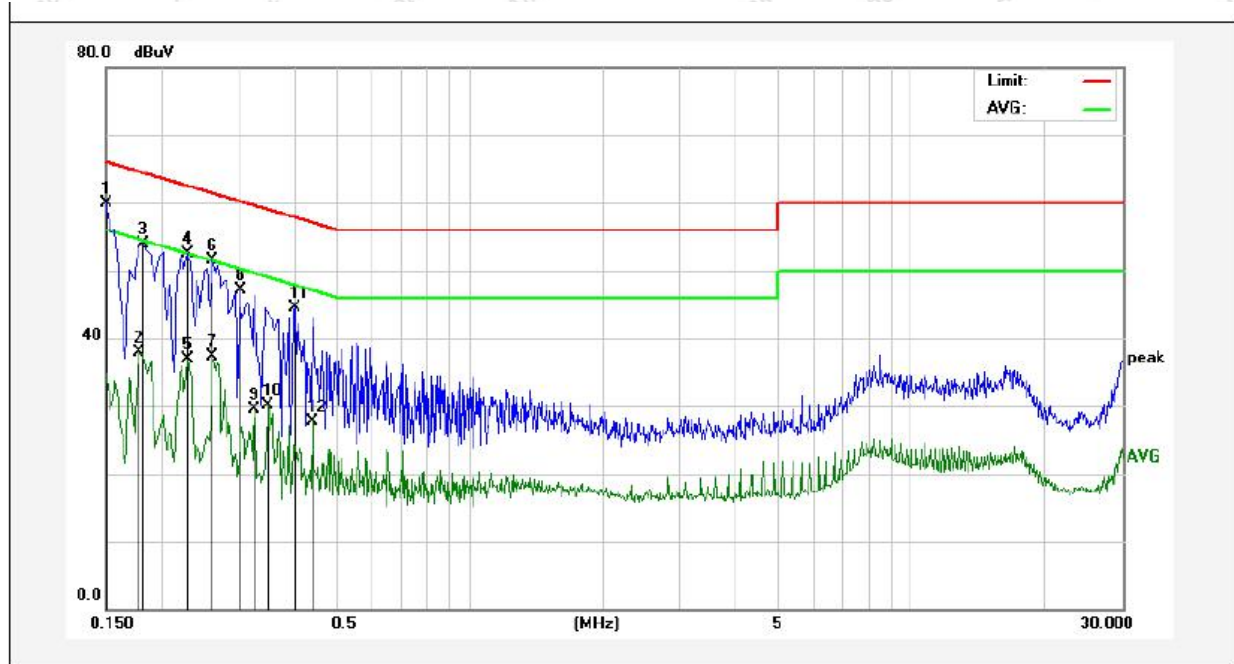
Test Site: 1# Shielded Room  
Operating Condition: Keeping TX+Charging mode  
Test Specification: AC 120V, 60Hz for adapter  
Comment: Live Line  
Tem.: 22.2°C Hum.: 60%



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|------------|-----------------|----------|--------|
| 1   | 0.1539      | 35.37          | 19.90       | 55.27         | 65.78      | -10.51          | QP       |        |
| 2   | 0.1539      | 17.68          | 19.90       | 37.58         | 55.78      | -18.20          | AVG      |        |
| 3   | 0.1780      | 21.39          | 19.90       | 41.29         | 54.57      | -13.28          | AVG      |        |
| 4   | 0.1819      | 35.95          | 19.90       | 55.85         | 64.39      | -8.54           | QP       |        |
| 5   | 0.2060      | 31.33          | 19.90       | 51.23         | 63.36      | -12.13          | QP       |        |
| 6   | 0.2260      | 15.91          | 19.89       | 35.80         | 52.59      | -16.79          | AVG      |        |
| 7   | 0.2340      | 32.97          | 19.89       | 52.86         | 62.30      | -9.44           | QP       |        |
| 8   | 0.2420      | 28.02          | 19.89       | 47.91         | 62.02      | -14.11          | QP       |        |
| 9   | 0.2740      | 30.51          | 19.89       | 50.40         | 60.99      | -10.59          | QP       |        |
| 10  | 0.2740      | 15.81          | 19.89       | 35.70         | 50.99      | -15.29          | AVG      |        |
| 11  | 0.3060      | 12.34          | 19.89       | 32.23         | 50.08      | -17.85          | AVG      |        |
| 12  | 0.4020      | 9.21           | 19.94       | 29.15         | 47.81      | -18.66          | AVG      |        |

### Conducted Emission Test Data

Test Site: 1# Shielded Room  
Operating Condition: Keeping TX+Charging mode  
Test Specification: AC 120V, 60Hz for adapter  
Comment: Neutral Line  
Tem.: 22.2°C Hum.: 60%



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|------------|-----------------|----------|--------|
| 1   | 0.1500      | 39.94          | 19.90       | 59.84         | 65.99      | -6.15           | QP       |        |
| 2   | 0.1780      | 17.93          | 19.90       | 37.83         | 54.57      | -16.74          | AVG      |        |
| 3   | 0.1819      | 34.00          | 19.90       | 53.90         | 64.39      | -10.49          | QP       |        |
| 4   | 0.2300      | 32.63          | 19.89       | 52.52         | 62.45      | -9.93           | QP       |        |
| 5   | 0.2300      | 17.08          | 19.89       | 36.97         | 52.45      | -15.48          | AVG      |        |
| 6   | 0.2620      | 31.69          | 19.89       | 51.58         | 61.36      | -9.78           | QP       |        |
| 7   | 0.2620      | 17.48          | 19.89       | 37.37         | 51.36      | -13.99          | AVG      |        |
| 8   | 0.3020      | 27.16          | 19.89       | 47.05         | 60.19      | -13.14          | QP       |        |
| 9   | 0.3260      | 9.57           | 19.90       | 29.47         | 49.55      | -20.08          | AVG      |        |
| 10  | 0.3500      | 10.26          | 19.91       | 30.17         | 48.96      | -18.79          | AVG      |        |
| 11  | 0.4020      | 24.58          | 19.94       | 44.52         | 57.81      | -13.29          | QP       |        |
| 12  | 0.4420      | 7.76           | 19.95       | 27.71         | 47.02      | -19.31          | AVG      |        |

## 4. Radiation Spurious Emission and Band Edge

### 4.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.209 and 15.205 |                                  |                |            |                          |
|---------------|----------------------------------------|----------------------------------|----------------|------------|--------------------------|
| Test Limit    | Frequency (MHz)                        | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark     | Measurement distance (m) |
|               | 0.009MHz~0.490MHz                      | 2400/F(kHz)                      | -              | -          | 300                      |
|               | 0.490MHz-1.705MHz                      | 24000/F(kHz)                     | -              | -          | 30                       |
|               | 1.705MHz-30MHz                         | 30                               | -              | -          | 30                       |
|               | 30MHz~88MHz                            | 100                              | 40.0           | Quasi-peak | 3                        |
|               | 88MHz~216MHz                           | 150                              | 43.5           | Quasi-peak | 3                        |
|               | 216MHz~960MHz                          | 200                              | 46.0           | Quasi-peak | 3                        |
|               | 960MHz~1000MHz                         | 500                              | 54.0           | Quasi-peak | 3                        |
|               | Above 1000MHz                          | 500                              | 54.0           | Average    | 3                        |
|               |                                        | -                                | 74.0           | Peak       | 3                        |

#### Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 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.

### 4.2. Test Setup

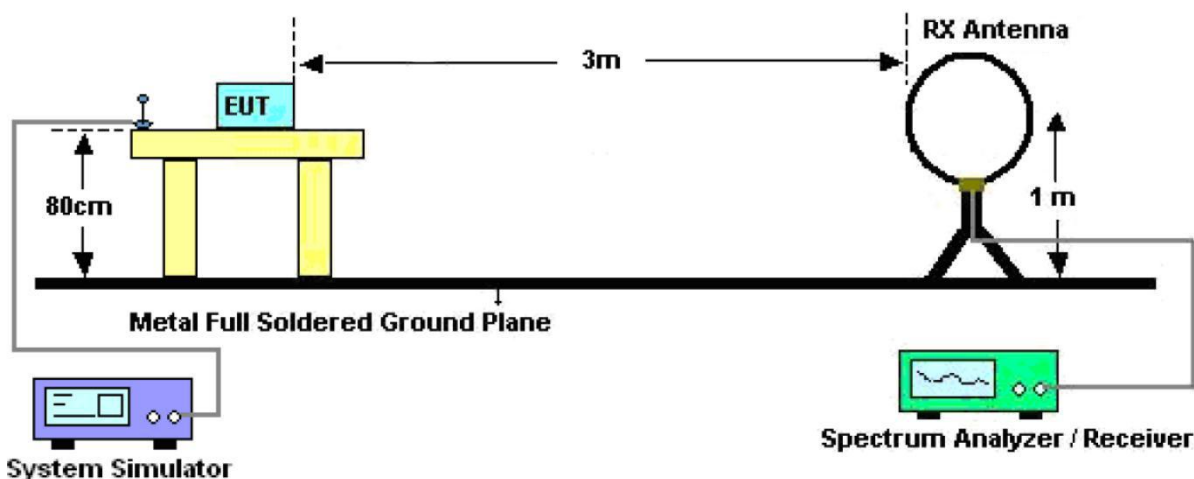


Figure 1. Below 30MHz

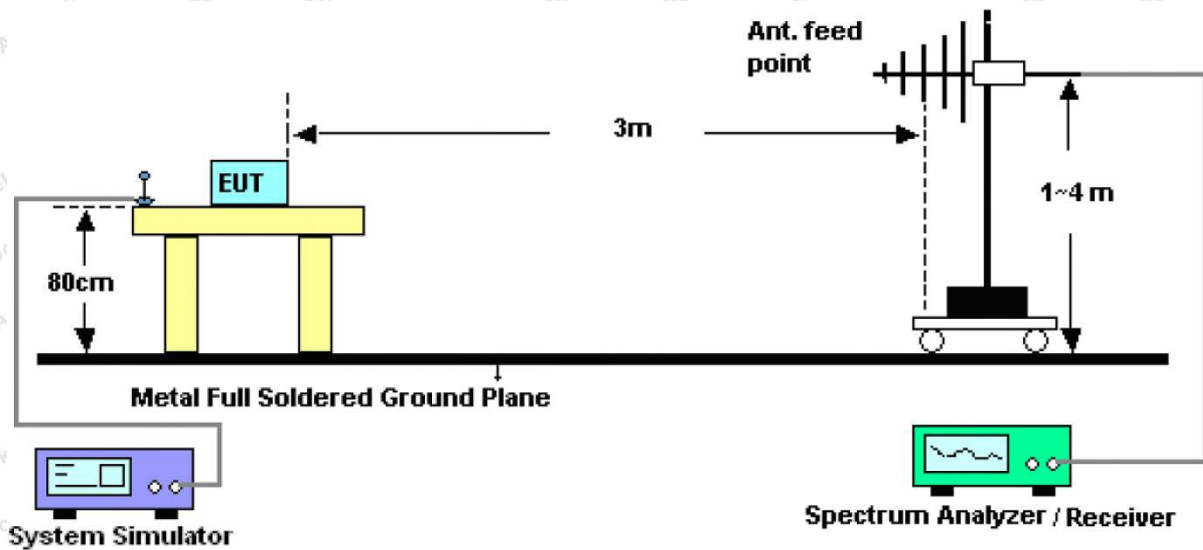


Figure 2. 30MHz to 1GHz

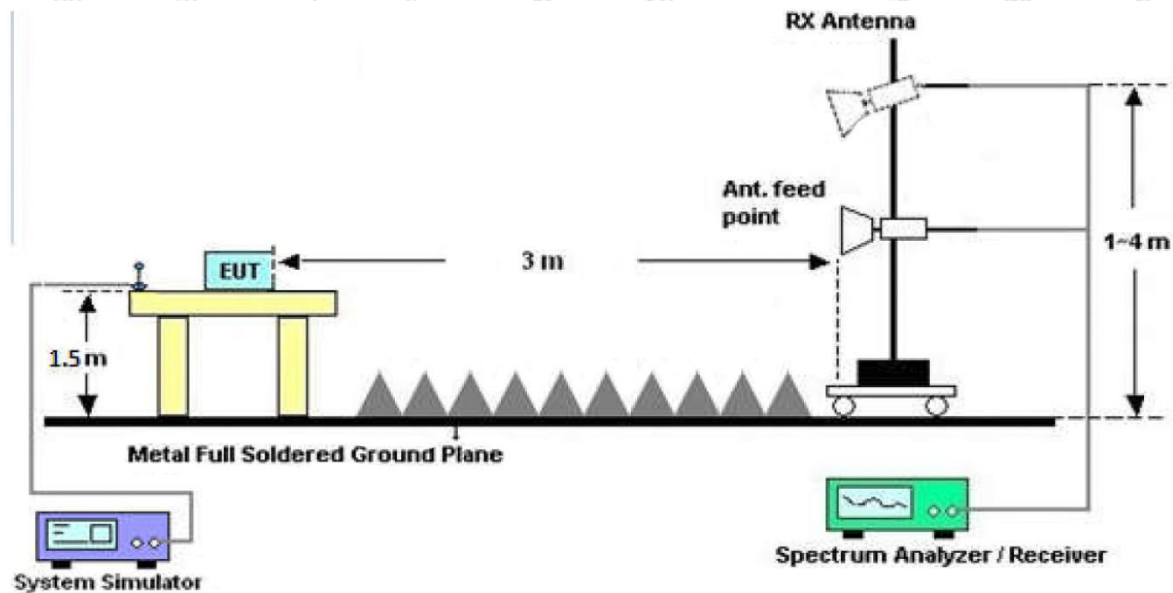


Figure 3. Above 1 GHz

#### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep = auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep = auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep = auto couple.

#### 4.4. Test Data

**PASS**

## Test Results

(Between 9KHz – 30MHz)

**Job No.:** SZAWW180710003-01

**Standard:** FCC PART15 C\_3m

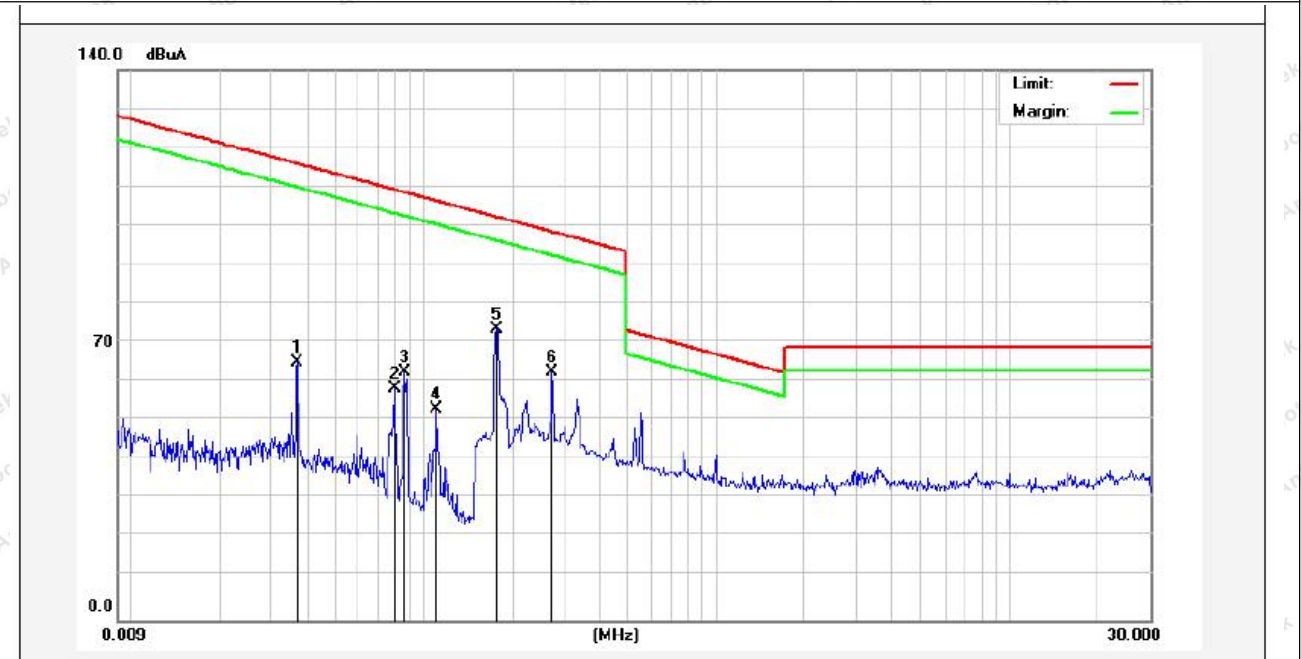
**Power Source:** AC 120V, 60Hz for adapter

**Test item:** Radiation Test

**Temp.(°C)/Hum.(%RH):** 24.7(°C)/51%RH

**Test Mode:** Mode 4

**Distance:** 3m

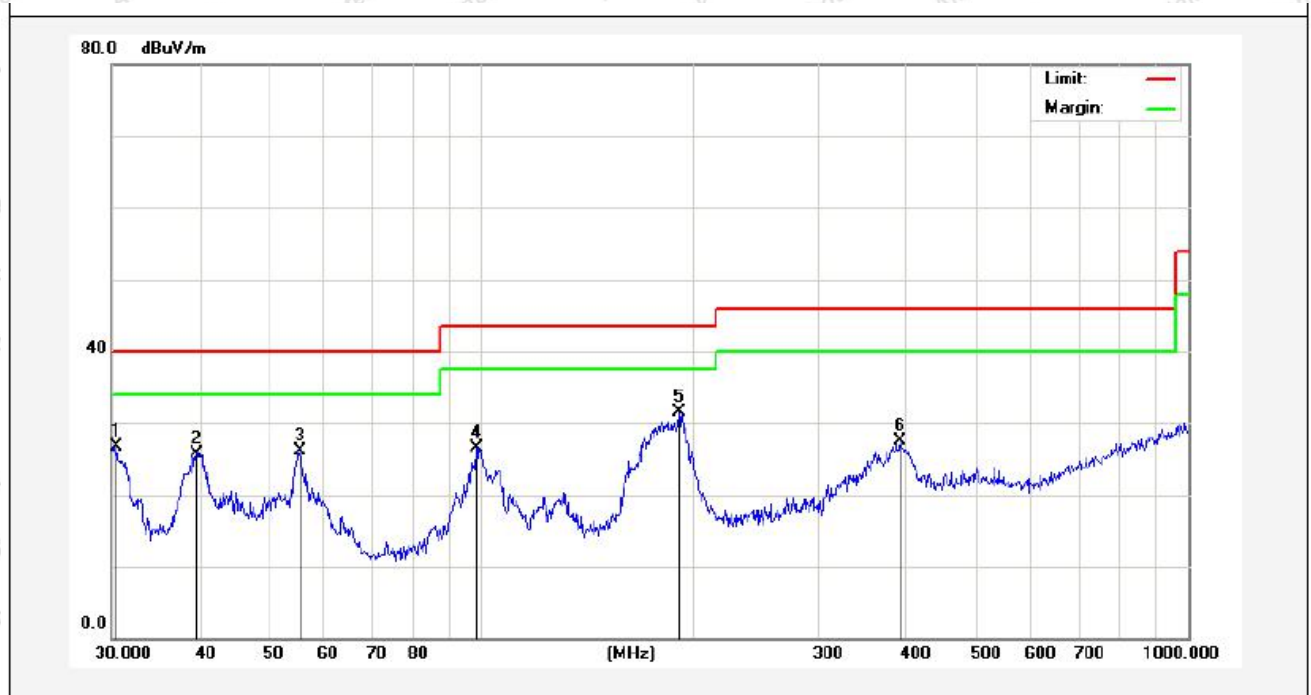


| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | degree (dgc) |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|----------------|-----------------|----------|--------------|
| 0.0371          | 52.15             | 19.61                 | 2.57            | 0                        | 74.33          | 136.09         | -61.76          | Peak     | 149          |
| 0.0371          | 43.52             | 19.61                 | 2.57            | 0                        | 65.70          | 116.09         | -50.39          | AV       | 149          |
| 0.0792          | 45.74             | 19.61                 | 2.57            | 0                        | 67.92          | 129.54         | -61.62          | Peak     | 95           |
| 0.0792          | 36.67             | 19.61                 | 2.57            | 0                        | 58.85          | 109.54         | -50.69          | AV       | 95           |
| 0.0859          | 51.88             | 19.61                 | 2.57            | 0                        | 74.06          | 128.84         | -54.78          | Peak     | 351          |
| 0.0859          | 41.15             | 19.61                 | 2.57            | 0                        | 63.33          | 108.84         | -45.51          | AV       | 351          |
| 0.1107          | 42.07             | 19.63                 | 2.59            | 0                        | 64.29          | 126.65         | -62.36          | Peak     | 77           |
| 0.1107          | 31.60             | 19.63                 | 2.59            | 0                        | 53.82          | 106.65         | -52.83          | AV       | 77           |
| 0.1779          | 60.55             | 19.63                 | 2.59            | 0                        | 82.77          | 122.55         | -39.78          | Peak     | 224          |
| 0.1779          | 51.92             | 19.63                 | 2.59            | 0                        | 74.14          | 102.55         | -28.41          | AV       | 224          |
| 0.2740          | 52.37             | 19.63                 | 2.59            | 0                        | 74.59          | 118.82         | -44.23          | Peak     | 165          |
| 0.2740          | 41.05             | 19.63                 | 2.59            | 0                        | 63.27          | 98.82          | -35.55          | AV       | 165          |

**Remark:** According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

(Between 30MHz-1000 MHz)

|            |                   |                      |                           |
|------------|-------------------|----------------------|---------------------------|
| Job No.:   | SZAWW180710003-01 | Polarization:        | Horizontal                |
| Standard:  | FCC PART15 C_3m   | Power Source:        | AC 120V, 60Hz for adapter |
| Test item: | Radiation Test    | Temp.(°C)/Hum.(%RH): | 23.3(°C)/54%RH            |
| Test Mode: | Mode 4            | Distance:            | 3m                        |



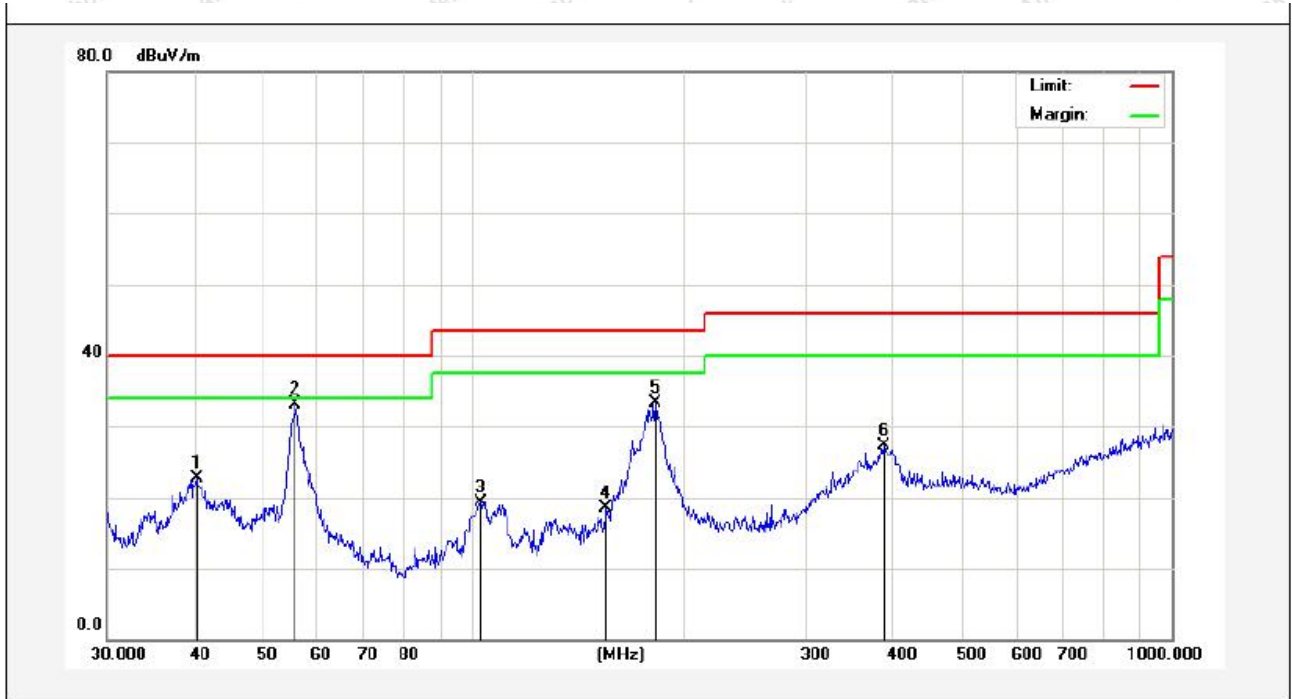
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/ | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|--------------|-----------------|----------|-------------|--------------|--------|
| 1   | 30.5306     | 45.19            | -18.39        | 26.80           | 40.00        | -13.20          | QP       | 300         | 99           |        |
| 2   | 39.5757     | 40.40            | -14.60        | 25.80           | 40.00        | -14.20          | QP       | 300         | 117          |        |
| 3   | 55.4147     | 42.78            | -16.75        | 26.03           | 40.00        | -13.97          | QP       | 300         | 127          |        |
| 4   | 98.4866     | 47.48            | -20.91        | 26.57           | 43.50        | -16.93          | QP       | 300         | 299          |        |
| 5   | 190.4050    | 51.41            | -19.88        | 31.53           | 43.50        | -11.97          | QP       | 300         | 312          |        |
| 6   | 390.7226    | 40.52            | -13.05        | 27.47           | 46.00        | -18.53          | QP       | 300         | 360          |        |

**Job No.:** SZAWW180710003-01  
**Standard:** FCC PART15 C\_3m  
**Test item:** Radiation Test  
**Test Mode:** Mode 4  
**Polarization:** Vertical  
**Power Source:** AC 120V, 60Hz for adapter  
**Temp.(°C)/Hum.(%RH):** 23.3(°C)/54%RH  
**Distance:** 3m



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/ | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|--------------|-----------------|----------|-------------|--------------|--------|
| 1   | 30.0000     | 51.81            | -17.55        | 34.26           | 40.00        | -5.74           | QP       | 300         | 99           |        |
| 2   | 40.1457     | 48.06            | -13.40        | 34.66           | 40.00        | -5.34           | QP       | 300         | 112          |        |
| 3   | 54.2610     | 47.62            | -15.70        | 31.92           | 40.00        | -8.08           | QP       | 300         | 199          |        |
| 4   | 101.6443    | 51.66            | -14.74        | 36.92           | 43.50        | -6.58           | QP       | 300         | 226          |        |
| 5   | 178.7584    | 48.42            | -15.94        | 32.48           | 43.50        | -11.02          | QP       | 300         | 296          |        |
| 6   | 368.1116    | 35.44            | -12.50        | 22.94           | 46.00        | -23.06          | QP       | 300         | 330          |        |

|                   |                          |                             |                                  |
|-------------------|--------------------------|-----------------------------|----------------------------------|
| <b>Job No.:</b>   | <b>SZAWW180710003-01</b> | <b>Polarization:</b>        | <b>Horizontal</b>                |
| <b>Standard:</b>  | <b>FCC PART15 C_3m</b>   | <b>Power Source:</b>        | <b>AC 240V, 60Hz for adapter</b> |
| <b>Test item:</b> | <b>Radiation Test</b>    | <b>Temp.(°C)/Hum.(%RH):</b> | <b>23.3(°C)/54%RH</b>            |
| <b>Test Mode:</b> | <b>Mode 4</b>            | <b>Distance:</b>            | <b>3m</b>                        |



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1   | 40.2757     | 37.17            | -14.43        | 22.74           | 40.00          | -17.26          | QP       | 300         | 76           |        |
| 2   | 55.8047     | 49.84            | -16.77        | 33.07           | 40.00          | -6.93           | QP       | 300         | 112          |        |
| 3   | 102.7192    | 40.11            | -20.73        | 19.38           | 43.50          | -24.12          | QP       | 300         | 169          |        |
| 4   | 155.3644    | 39.53            | -21.09        | 18.44           | 43.50          | -25.06          | QP       | 300         | 223          |        |
| 5   | 182.5592    | 53.20            | -19.87        | 33.33           | 43.50          | -10.17          | QP       | 300         | 276          |        |
| 6   | 387.9920    | 40.34            | -13.11        | 27.23           | 46.00          | -18.77          | QP       | 300         | 352          |        |

**Job No.:** SZAWW180710003-01  
**Standard:** FCC PART15 C\_3m  
**Test item:** Radiation Test  
**Test Mode:** Mode 4  
**Polarization:** Vertical  
**Power Source:** AC 240V, 60Hz for adapter  
**Temp.(°C)/Hum.(%RH):** 23.3(°C)/54%RH  
**Distance:** 3m



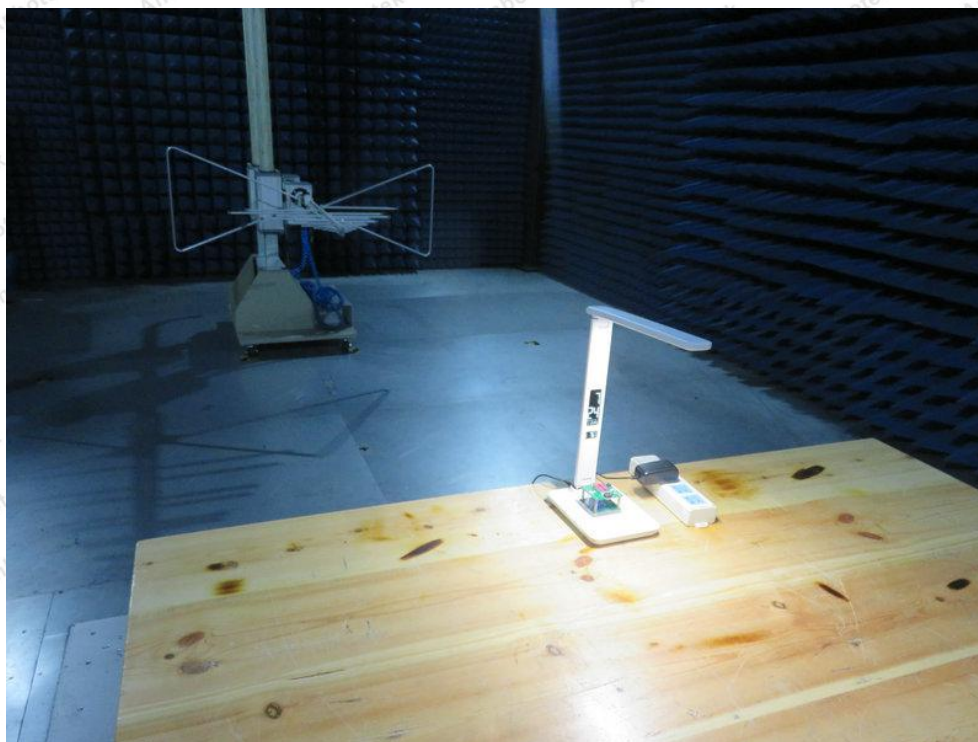
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/ | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|--------------|-----------------|----------|-------------|--------------|--------|
| 1   | 30.0000     | 50.72            | -17.55        | 33.17           | 40.00        | -6.83           | QP       | 300         | 76           |        |
| 2   | 39.8542     | 46.92            | -13.45        | 33.47           | 40.00        | -6.53           | QP       | 300         | 114          |        |
| 3   | 55.7094     | 50.52            | -15.77        | 34.75           | 40.00        | -5.25           | QP       | 300         | 187          |        |
| 4   | 103.0800    | 45.26            | -14.72        | 30.54           | 43.50        | -12.96          | QP       | 300         | 221          |        |
| 5   | 183.8440    | 51.02            | -15.49        | 35.53           | 43.50        | -7.97           | QP       | 300         | 297          |        |
| 6   | 359.1860    | 34.51            | -12.70        | 21.81           | 46.00        | -24.19          | QP       | 300         | 342          |        |

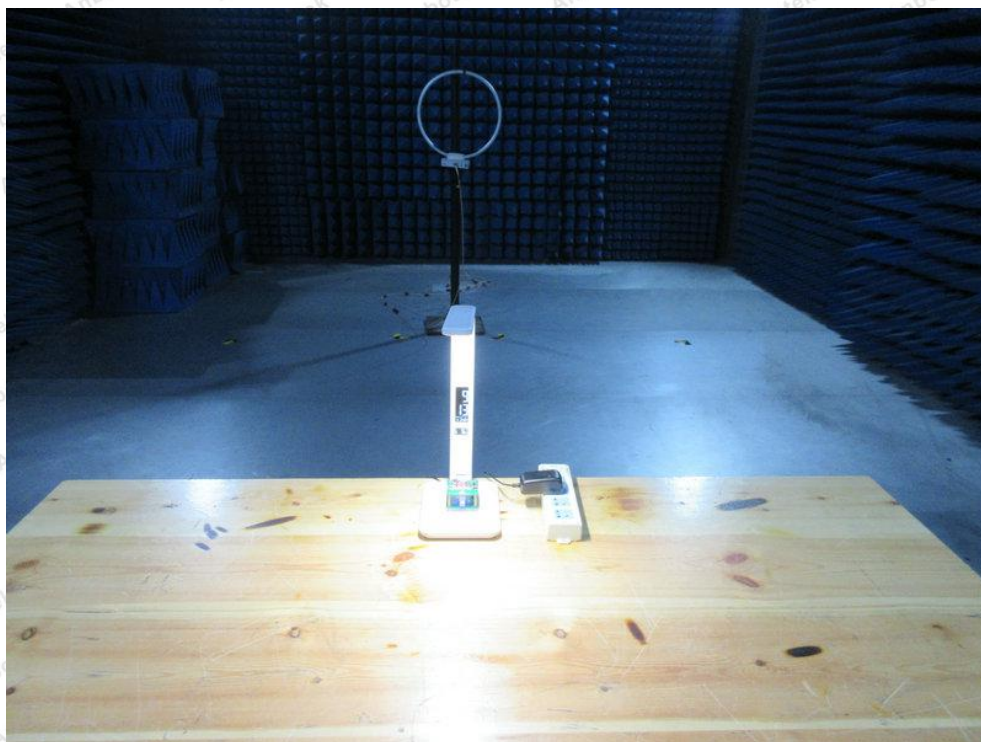
## APPENDIX I-- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test

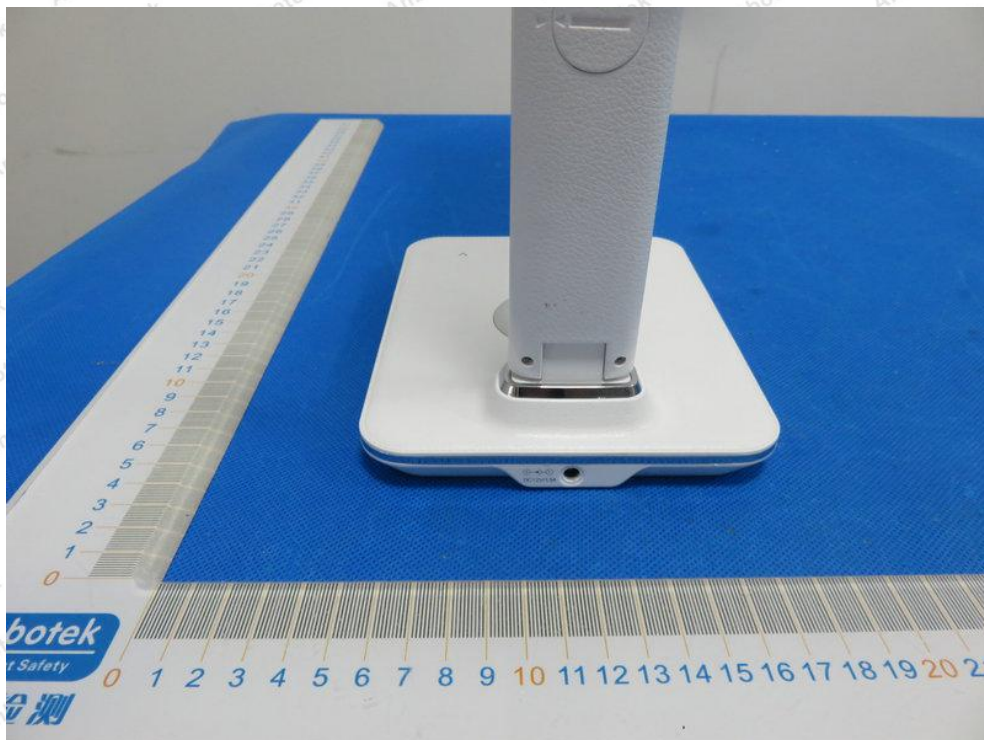
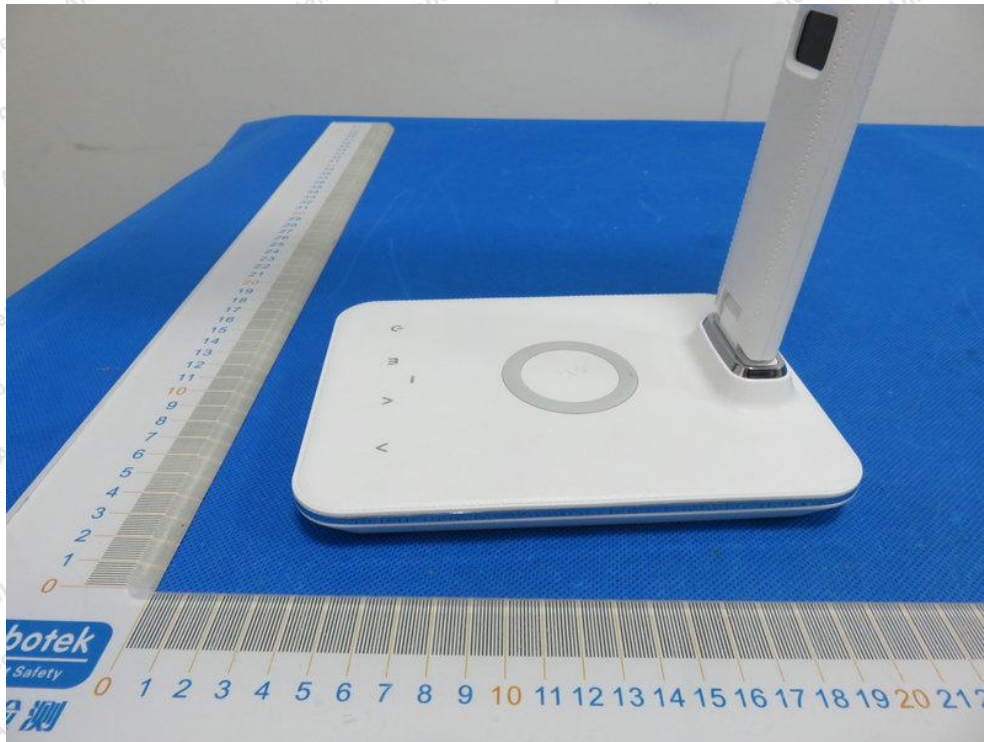




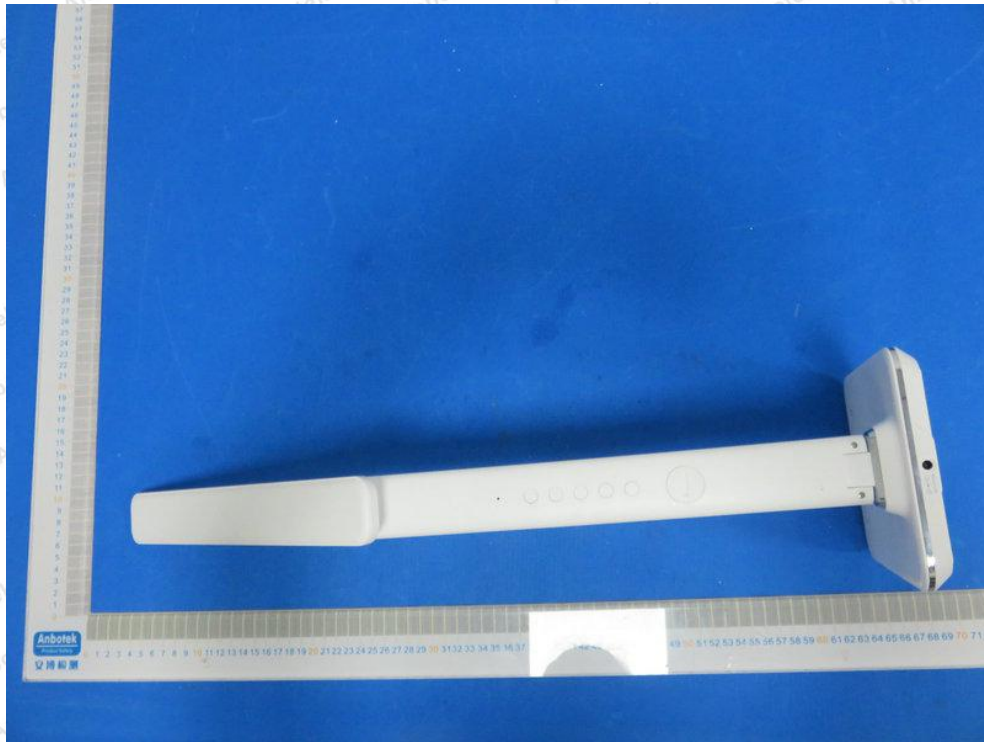
## APPENDIX II -- EXTERNAL PHOTOGRAPH



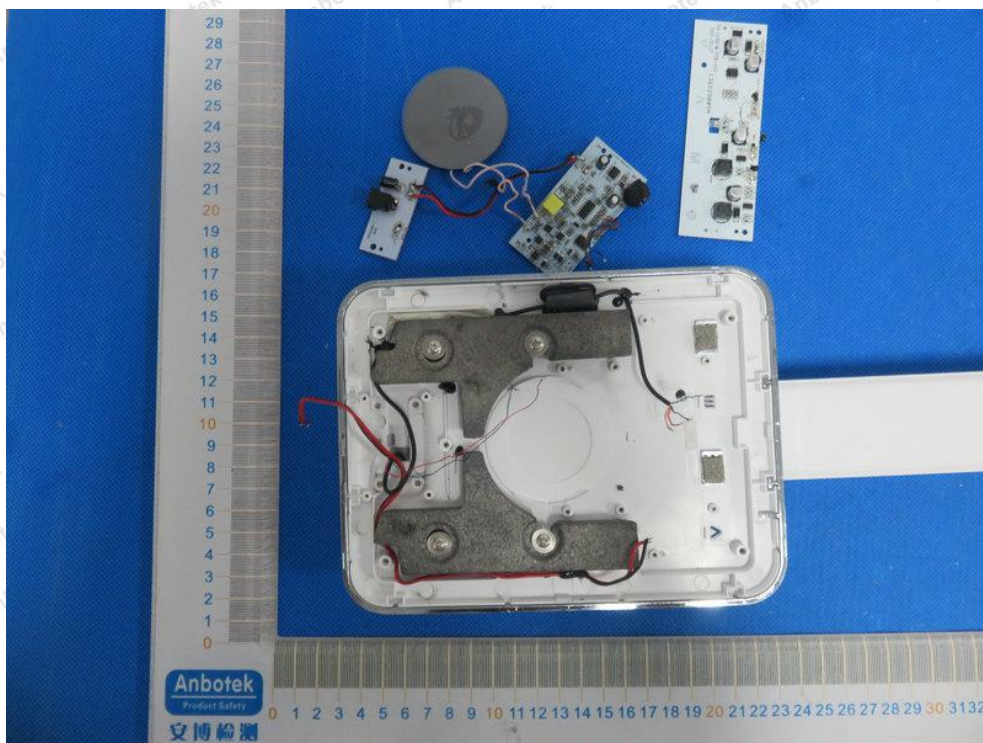
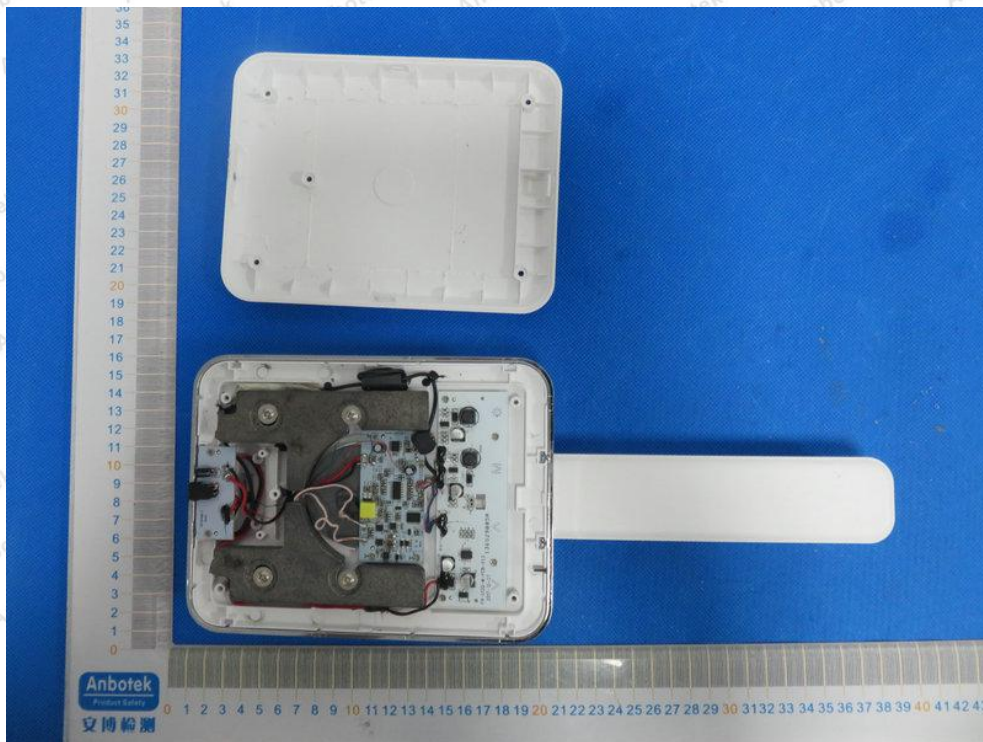


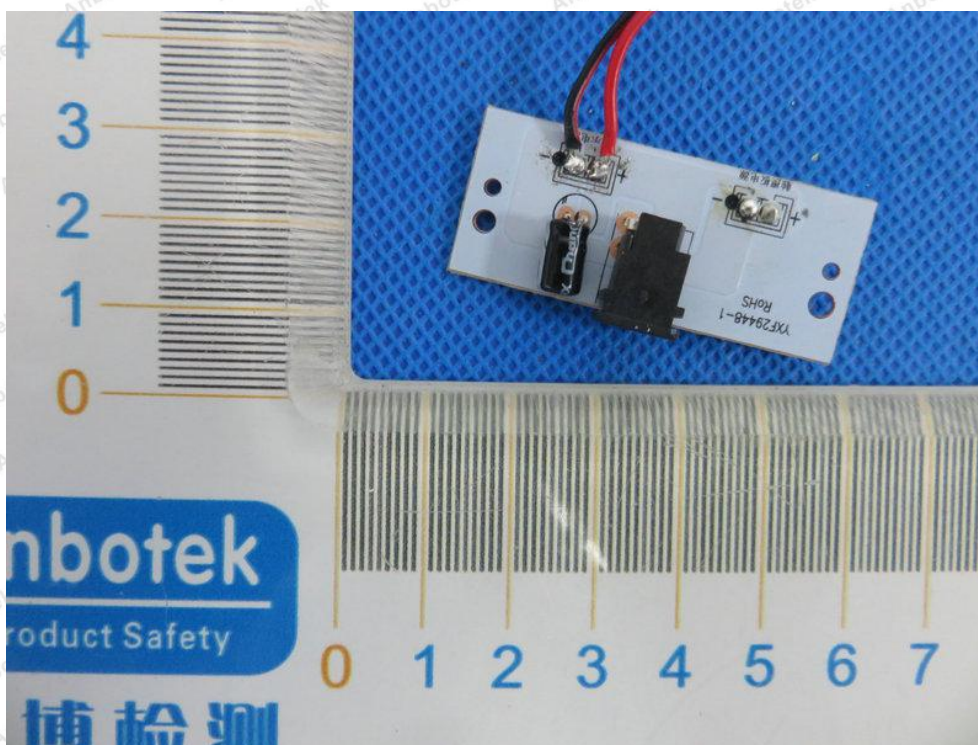


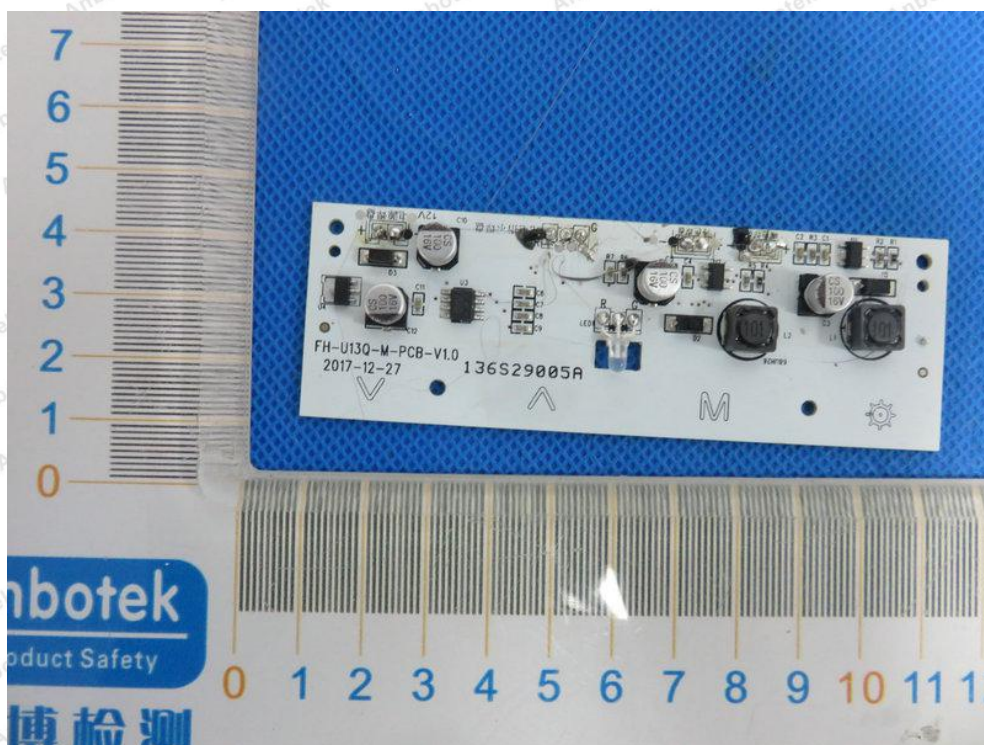


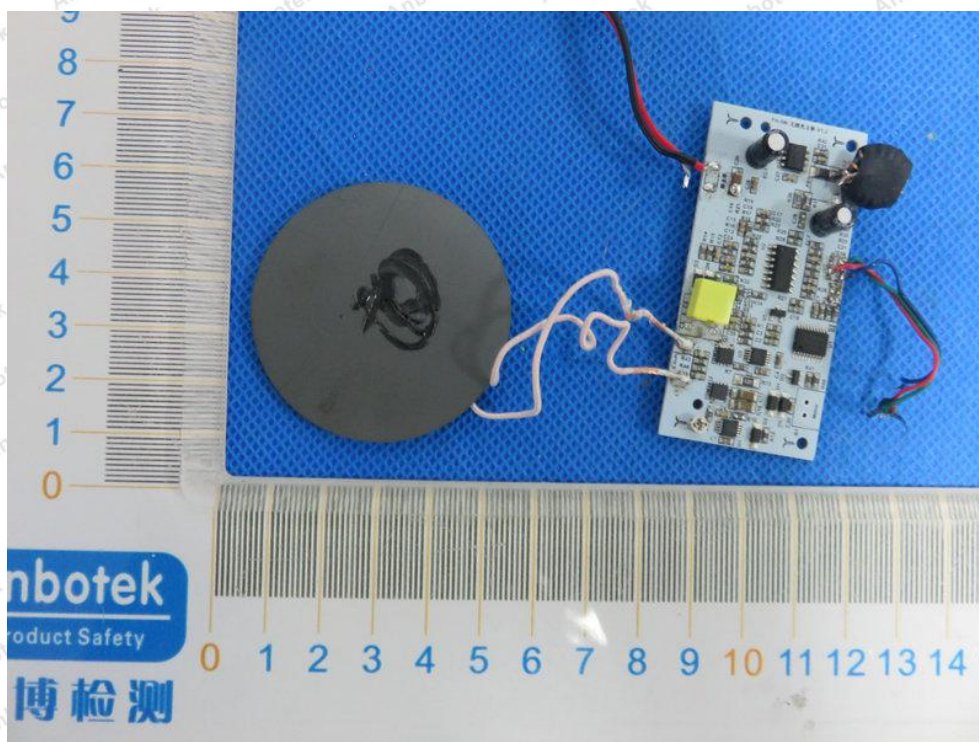
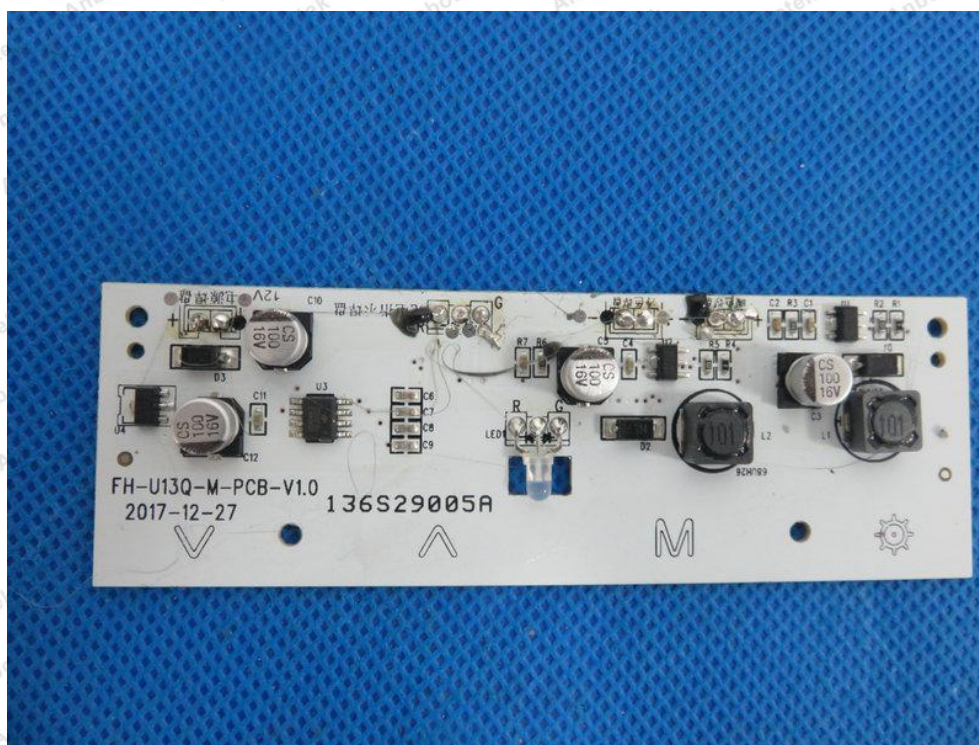


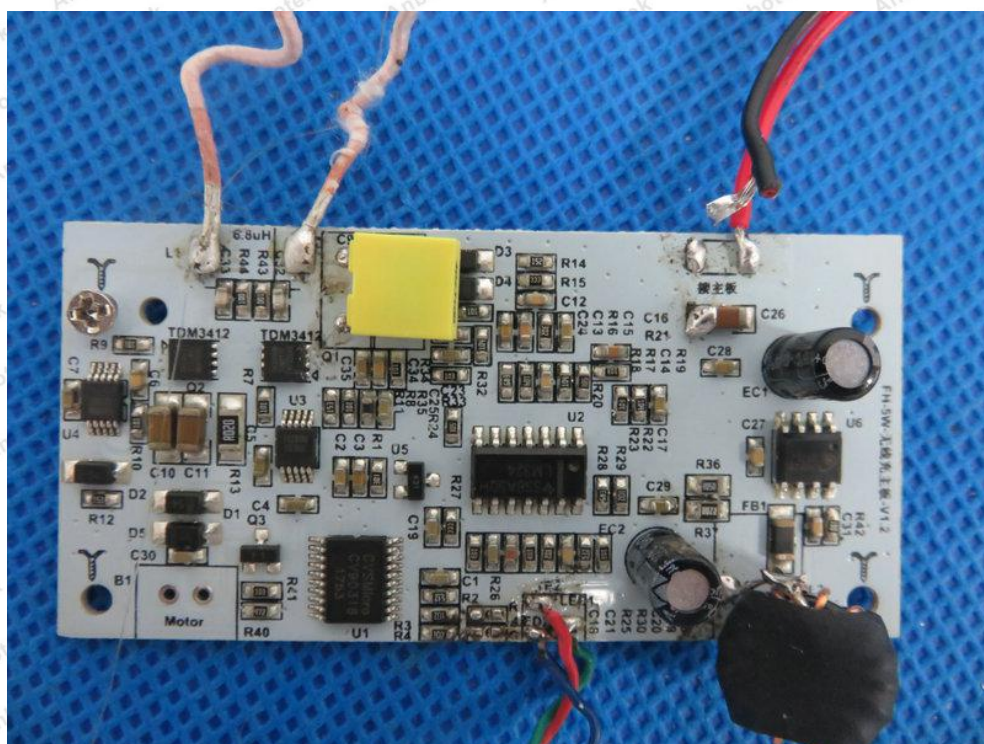
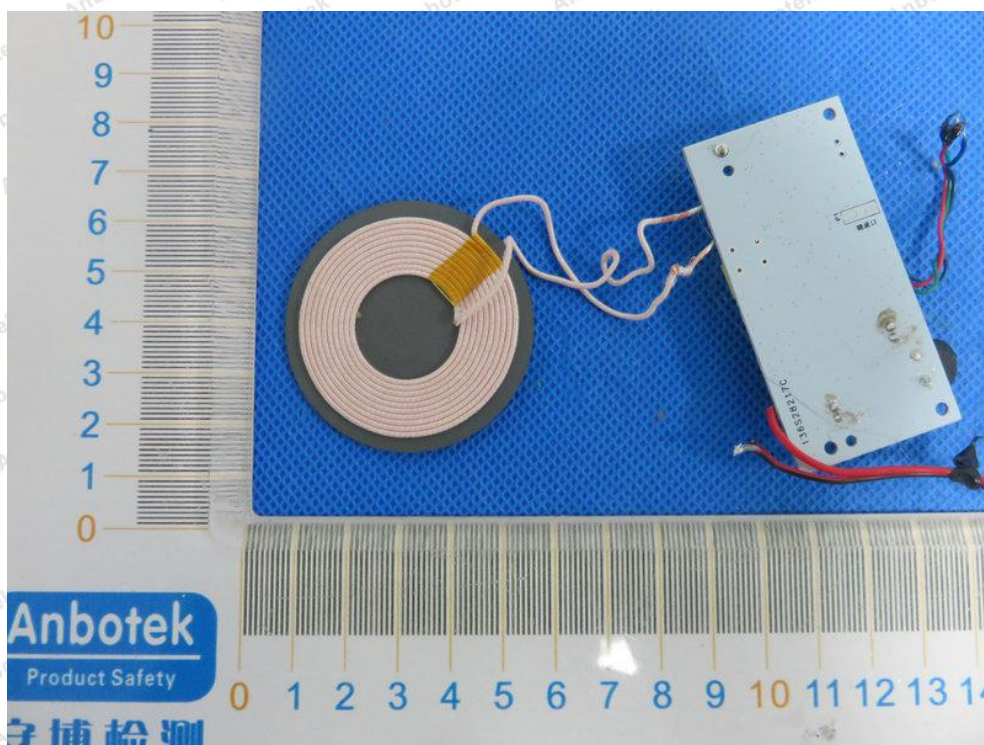
## APPENDIX III -- INTERNAL PHOTOGRAPH











----- End of Report -----