

APPLICATION FOR VERIFICATION  
On Behalf of  
SHENZHEN AVATARCONTROLS CO., LTD.

Wireless Charger

Model No.: AFCC01

FCC ID: 2ANJP-AFCC01

Prepared for : SHENZHEN AVATARCONTROLS CO., LTD.  
Address : Room 1008, Weixing building, Keyuan Road Nanshan district, Shenzhen, Guangdong, China, 518000

Prepared by : Shenzhen Accurate Technology Co., Ltd.  
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Report No. : ATE20172264  
Date of Test : Nov. 19, 2017--Nov. 29, 2017  
Date of Report : Nov. 30, 2017

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## Test Report Declaration

Applicant& address : SHENZHEN AVATARCONTROLS CO., LTD.  
Room 1008, Weixing building, Keyuan Road Nanshan district,  
Shenzhen, Guangdong, China, 518000

Manufacturer& address : Shenzhen Xinyixin Technology Co., Ltd  
Building A17, Fuqiao 3rd Industrial Zone, Fuyong St., Baoan  
District, Shenzhen, Guangdong, China(Mainland)

Product : Wireless Charger

Model No. : AFCC01

Trade name : 

AVATARCONTROLS

Measurement Procedure Used:

**FCC CFR47 Part 15 Subpart C Section 15.207 and 15.209, 2.1049**  
**ANSI C63.10: 2013**

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test : Nov. 19, 2017--Nov. 29, 2017  
Date of Report : Nov. 30, 2017

Prepared by :   
(Tim, Testing Engineer)

Approved & Authorized Signer :   
( Sean Liu, Manager)

## 1. TEST RESULTS SUMMARY

| Test Items                    | Test Standard   | Test Results |
|-------------------------------|-----------------|--------------|
| Power Line Conducted Emission | FCC Part 15.207 | Pass         |
| Radiated Emission             | FCC Part 15.209 | Pass         |
| Occupied bandwidth            | FCC Part 2.1049 | Pass         |

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

|                 |   |                                     |
|-----------------|---|-------------------------------------|
|                 |   | Wireless Charger                    |
| Frequency       | : | 110-205kHz                          |
| Modulation Type | : | ASK                                 |
| Type of Antenna | : | Coil Antenna                        |
| Power Supply    | : | DC 24V(Powered by USB Power Socket) |

### 2.2. Special Accessory and Auxiliary Equipment

1. USB Power Socket:      Model: AFC01US  
    (provided by customer)    Input: AC 120V/60Hz  
                                      OUTPUT: 24V or 5V
2. Samsung Mobile phone:    Model: S7  
    (provided by Laboratory)

### 2.3. Description of Test Facility

|               |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC Lab       | : | Recognition of accreditation by Federal Communications Commission (FCC)<br>The Designation Number is CN1189<br>The Registration Number is 708358<br><br>Listed by Innovation, Science and Economic Development Canada (ISED)<br>The Registration Number is 5077A-2<br><br>Accredited by China National Accreditation Service for Conformity Assessment (CNAS)<br>The Registration Number is CNAS L3193<br><br>Accredited by American Association for Laboratory Accreditation (A2LA)<br>The Certificate Number is 4297.01 |
| Name of Firm  | : | Shenzhen Accurate Technology Co., Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Site Location | : | 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China                                                                                                                                                                                                                                                                                                                                                                                                 |

### 2.4. Measurement Uncertainty

|                                                           |   |               |
|-----------------------------------------------------------|---|---------------|
| Conducted emission expanded uncertainty                   | : | U=2.23dB, k=2 |
| Power disturbance expanded uncertainty                    | : | U=2.92dB, k=2 |
| Radiated emission expanded uncertainty<br>(9kHz-30MHz)    | : | U=3.08dB, k=2 |
| Radiated emission expanded uncertainty<br>(30MHz-1000MHz) | : | U=4.42dB, k=2 |
| Radiated emission expanded uncertainty<br>(Above 1GHz)    | : | U=4.06dB, k=2 |

### 3. MEASURING DEVICE AND TEST EQUIPMENT

#### 3.1. For Radiated Emission Measurement

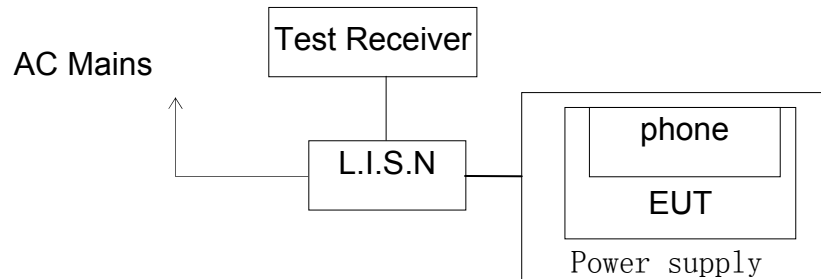
| Item | Equipment                        | Manufacturer         | Model No.                | Serial No. | Last Cal.    | Cal. Interval |
|------|----------------------------------|----------------------|--------------------------|------------|--------------|---------------|
| 1.   | Spectrum Analyzer                | Agilent              | E7405A                   | MY45115511 | Jan.07, 2017 | 1 Year        |
| 2.   | Spectrum Analyzer                | Rohde&Schwarz        | FSV40                    | 101495     | Jan.07, 2017 | 1 Year        |
| 3.   | Test Receiver                    | Rohde&Schwarz        | ESCS30                   | 100307     | Jan.07, 2017 | 1 Year        |
| 4.   | Test Receiver                    | Rohde& Schwarz       | ESPI                     | 100396/003 | Jan.07, 2017 | 1 Year        |
| 5.   | Test Receiver                    | Rohde& Schwarz       | ESPI                     | 101526/003 | Jan.07, 2017 | 1 Year        |
| 6.   | Test Receiver                    | Rohde& Schwarz       | ESR                      | 101817     | Jan.07, 2017 | 1 Year        |
| 7.   | Bilog Antenna                    | Schwarzbeck          | VULB9163                 | 9163-194   | Jan.13, 2017 | 1 Year        |
| 8.   | Bilog Antenna                    | Schwarzbeck          | VULB9163                 | 9163-323   | Jan.13, 2017 | 1 Year        |
| 9.   | Log.-Per.Antenna                 | Schwarzbeck          | VUSLP<br>9111B           | 9111B-074  | Jan.13, 2017 | 1 Year        |
| 10.  | Biconical Broad Band Antenna     | Schwarzbeck          | VHBB<br>9124+BBA<br>9106 | 9124-617   | Jan.13, 2017 | 1 Year        |
| 11.  | Loop Antenna                     | Schwarzbeck          | FMZB1516                 | 1516131    | Jan.13, 2017 | 1 Year        |
| 12.  | Horn Antenna                     | Schwarzbeck          | BBHA9120D                | 9120D-655  | Jan.13, 2017 | 1 Year        |
| 13.  | Horn Antenna                     | Schwarzbeck          | BBHA9120D                | 9120D-1067 | Jan.13, 2017 | 1 Year        |
| 14.  | Vertical Active Monopole Antenna | Schwarzbeck          | VAMP 9243                | 9243-370   | Jan.13, 2017 | 1 Year        |
| 15.  | RF Switching Unit+PreAMP         | Compliance Direction | RSU-M2                   | 38322      | Jan.07, 2017 | 1 Year        |
| 16.  | Pre-Amplifier                    | Agilent              | 8447D                    | 294A10619  | Jan.07, 2017 | 1 Year        |
| 17.  | Pre-Amplifier                    | Rohde&Schwarz        | CBLU11835<br>40-01       | 3791       | Jan.07, 2017 | 1 Year        |
| 18.  | 50 Coaxial Switch                | Anritsu Corp         | MP59B                    | 6200237248 | Jan.07, 2017 | 1 Year        |
| 19.  | 50 Coaxial Switch                | Anritsu Corp         | MP59B                    | 6200506474 | Jan.07, 2017 | 1 Year        |
| 20.  | RF Coaxial Cable                 | Schwarzbeck          | N-5m                     | No.1       | Jan.07, 2017 | 1 Year        |
| 21.  | RF Coaxial Cable                 | Schwarzbeck          | N-1m                     | No.6       | Jan.07, 2017 | 1 Year        |
| 22.  | RF Coaxial Cable                 | Schwarzbeck          | N-1m                     | No.7       | Jan.07, 2017 | 1 Year        |
| 23.  | RF Coaxial Cable                 | SUHNER               | N-3m                     | No.8       | Jan.07, 2017 | 1 Year        |
| 24.  | RF Coaxial Cable                 | RESENBERGER          | N-3.5m                   | No.9       | Jan.07, 2017 | 1 Year        |
| 25.  | RF Coaxial Cable                 | SUHNER               | N-6m                     | No.10      | Jan.07, 2017 | 1 Year        |
| 26.  | RF Coaxial Cable                 | RESENBERGER          | N-12m                    | No.11      | Jan.07, 2017 | 1 Year        |
| 27.  | RF Coaxial Cable                 | RESENBERGER          | N-0.5m                   | No.12      | Jan.07, 2017 | 1 Year        |
| 28.  | RF Coaxial Cable                 | SUHNER               | N-2m                     | No.13      | Jan.07, 2017 | 1 Year        |
| 29.  | RF Coaxial Cable                 | SUHNER               | N-0.5m                   | No.15      | Jan.07, 2017 | 1 Year        |
| 30.  | RF Coaxial Cable                 | SUHNER               | N-2m                     | No.16      | Jan.07, 2017 | 1 Year        |
| 31.  | RF Coaxial Cable                 | RESENBERGER          | N-6m                     | No.17      | Jan.07, 2017 | 1 Year        |

### 3.2.The Equipment Used to Measure Conducted Disturbance (L.I.S.N)

| Item | Equipment                              | Manufacturer    | Model No. | Serial No. | Last Cal.    | Cal. Interval |
|------|----------------------------------------|-----------------|-----------|------------|--------------|---------------|
| 1.   | Test Receiver                          | Rohde & Schwarz | ESCS30    | 100307     | Jan.07, 2017 | 1 Year        |
| 2.   | Test Receiver                          | Rohde & Schwarz | ESPI3     | 100396/003 | Jan.07, 2017 | 1 Year        |
| 3.   | Test Receiver                          | Rohde & Schwarz | ESPI3     | 101526/003 | Jan.07, 2017 | 1 Year        |
| 4.   | L.I.S.N.                               | Schwarzbeck     | NLSK8126  | 8126431    | Jan.07, 2017 | 1 Year        |
| 5.   | L.I.S.N.                               | Rohde & Schwarz | ESH3-Z5   | 100305     | Jan.07, 2017 | 1 Year        |
| 6.   | L.I.S.N.                               | Rohde & Schwarz | ESH3-Z5   | 100310     | Jan.07, 2017 | 1 Year        |
| 7.   | L.I.S.N.                               | Rohde & Schwarz | ESH3-Z6   | 100132     | Jan.07, 2017 | 1 Year        |
| 8.   | Pulse Limiter                          | Rohde & Schwarz | ESH3-Z2   | 100305     | Jan.07, 2017 | 1 Year        |
| 9.   | Pulse Limiter                          | Rohde & Schwarz | ESH3-Z2   | 100312     | Jan.07, 2017 | 1 Year        |
| 10.  | Pulse Limiter                          | Rohde & Schwarz | ESH3-Z2   | 100815     | Jan.07, 2017 | 1 Year        |
| 11.  | 50Ω Coaxial Switch                     | Anritsu Corp    | MP59B     | 6200283936 | Jan.07, 2017 | 1 Year        |
| 12.  | 50Ω Coaxial Switch                     | Anritsu Corp    | MP59B     | 6200283933 | Jan.07, 2017 | 1 Year        |
| 13.  | 50Ω Coaxial Switch                     | Anritsu Corp    | MP59B     | 6200506474 | Jan.07, 2017 | 1 Year        |
| 14.  | VOLTAGE PROBE                          | Schwarzbeck     | TK9416    | N/A        | Jan.07, 2017 | 1 Year        |
| 15.  | RF CURRENT PROBE                       | Rohde & Schwarz | EZ-17     | 100048     | Jan.07, 2017 | 1 Year        |
| 16.  | 8-Wire Impedance Stabilisation Network | Schwarzbeck     | CAT5 8158 | 8158-0035  | Jan.07, 2017 | 1 Year        |
| 17.  | RF Coaxial Cable                       | SUHNER          | N-2m      | No.2       | Jan.07, 2017 | 1 Year        |
| 18.  | RF Coaxial Cable                       | SUHNER          | N-2m      | No.3       | Jan.07, 2017 | 1 Year        |
| 19.  | RF Coaxial Cable                       | SUHNER          | N-2m      | No.14      | Jan.07, 2017 | 1 Year        |

## 4. POWER LINE CONDUCTED MEASUREMENT

### 4.1. Block Diagram of Test Setup



(EUT: Wireless Charger)

### 4.2. Power Line Conducted Emission Measurement Limits

| Frequency<br>(MHz) | Limit dB( $\mu$ V) |               |
|--------------------|--------------------|---------------|
|                    | Quasi-peak Level   | Average Level |
| 0.15 - 0.50        | 66.0 – 56.0 *      | 56.0 – 46.0 * |
| 0.50 - 5.00        | 56.0               | 46.0          |
| 5.00 - 30.00       | 60.0               | 50.0          |

NOTE1: The lower limit shall apply at the transition frequencies.  
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

### 4.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

### 4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in test mode and measure it.

#### 4.5. Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and 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 lines 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 ANSI C63.10: 2013 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

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

#### 4.6. DATA SAMPLE

| Frequency (MHz) | Quasi Peak Level (dB $\mu$ V) | Average Level (dB $\mu$ V) | Transducer value (dB) | QuasiPeak Result (dB $\mu$ V) | Average Result (dB $\mu$ V) | Quasi Peak Limit (dB $\mu$ V) | Average Limit (dB $\mu$ V) | QuasiPeak Margin (dB) | Average Margin (dB) | Remark (Pass/Fail) |
|-----------------|-------------------------------|----------------------------|-----------------------|-------------------------------|-----------------------------|-------------------------------|----------------------------|-----------------------|---------------------|--------------------|
| X.XX            | 29.4                          | 18.3                       | 11.1                  | 40.5                          | 29.4                        | 56.0                          | 56.0                       | 15.5                  | 16.6                | Pass               |

Transducer value = Insertion loss of LISN + Cable Loss

Result = Quasi-peak Level/Average Level + Transducer value

Limit = Limit stated in standard

Calculation Formula:

Margin = Limit – Reading level value – Transducer value

## 4.7. Power Line Conducted Emission Measurement Results

**PASS.**

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

|                                           |               |              |               |              |          |      |     |  |
|-------------------------------------------|---------------|--------------|---------------|--------------|----------|------|-----|--|
| Test mode : wireless Charging(worse case) |               |              |               |              |          |      |     |  |
| Test Voltage: 120V/60Hz                   |               |              |               |              |          |      |     |  |
| <b>MEASUREMENT RESULT: "AFC0009_fin"</b>  |               |              |               |              |          |      |     |  |
| 11/21/2017 4:16PM                         |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                          | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.195000                                  | 35.10         | 10.5         | 64            | 28.7         | QP       | N    | GND |  |
| 0.385000                                  | 36.00         | 10.7         | 58            | 22.2         | QP       | N    | GND |  |
| 0.520000                                  | 37.70         | 10.7         | 56            | 18.3         | QP       | N    | GND |  |
| 0.690000                                  | 28.10         | 10.8         | 56            | 27.9         | QP       | N    | GND |  |
| 1.210000                                  | 33.20         | 10.9         | 56            | 22.8         | QP       | N    | GND |  |
| 18.670000                                 | 27.20         | 11.4         | 60            | 32.8         | QP       | N    | GND |  |
| <b>MEASUREMENT RESULT: "AFC0009_fin2"</b> |               |              |               |              |          |      |     |  |
| 11/21/2017 4:16PM                         |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                          | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.195000                                  | 29.00         | 10.5         | 54            | 24.8         | AV       | N    | GND |  |
| 0.380000                                  | 30.20         | 10.7         | 48            | 18.1         | AV       | N    | GND |  |
| 0.520000                                  | 27.00         | 10.7         | 46            | 19.0         | AV       | N    | GND |  |
| 0.690000                                  | 19.50         | 10.8         | 46            | 26.5         | AV       | N    | GND |  |
| 1.210000                                  | 22.90         | 10.9         | 46            | 23.1         | AV       | N    | GND |  |
| 18.670000                                 | 22.20         | 11.4         | 50            | 27.8         | AV       | N    | GND |  |
| <b>MEASUREMENT RESULT: "AFC0011_fin"</b>  |               |              |               |              |          |      |     |  |
| 11/21/2017 4:26PM                         |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                          | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.165000                                  | 39.70         | 10.5         | 65            | 25.5         | QP       | L1   | GND |  |
| 0.425000                                  | 32.70         | 10.7         | 57            | 24.6         | QP       | L1   | GND |  |
| 0.740000                                  | 28.60         | 10.8         | 56            | 27.4         | QP       | L1   | GND |  |
| 1.270000                                  | 26.90         | 10.9         | 56            | 29.1         | QP       | L1   | GND |  |
| 1.905000                                  | 25.00         | 11.0         | 56            | 31.0         | QP       | L1   | GND |  |
| 16.090000                                 | 24.10         | 11.4         | 60            | 35.9         | QP       | L1   | GND |  |
| <b>MEASUREMENT RESULT: "AFC0011_fin2"</b> |               |              |               |              |          |      |     |  |
| 11/21/2017 4:26PM                         |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                          | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.165000                                  | 27.90         | 10.5         | 55            | 27.3         | AV       | L1   | GND |  |
| 0.425000                                  | 25.30         | 10.7         | 47            | 22.0         | AV       | L1   | GND |  |
| 0.740000                                  | 22.50         | 10.8         | 46            | 23.5         | AV       | L1   | GND |  |
| 1.270000                                  | 19.30         | 10.9         | 46            | 26.7         | AV       | L1   | GND |  |
| 1.905000                                  | 16.70         | 11.0         | 46            | 29.3         | AV       | L1   | GND |  |
| 16.090000                                 | 17.50         | 11.4         | 50            | 32.5         | AV       | L1   | GND |  |

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

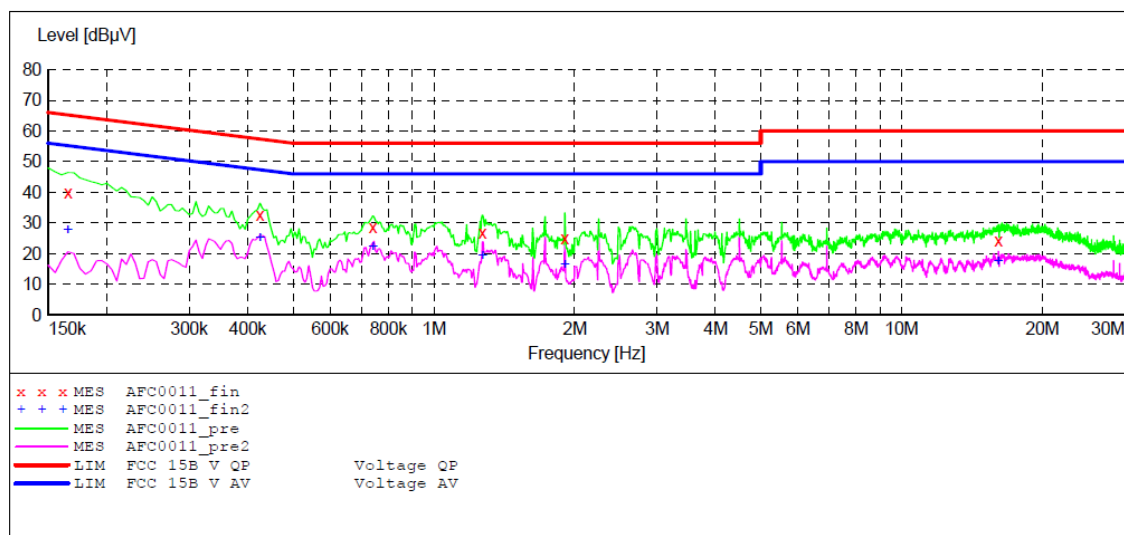
## ACCURATE TECHNOLOGY CO., LTD

### CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wireless Charger M/N:AFCC01  
 Manufacturer: Xinyixin  
 Operating Condition: Charging  
 Test Site: 1#Shielding Room  
 Operator: star  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20172164  
 Start of Test: 11/21/2017 / 4:24:39PM

#### SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008  
 Average  
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



#### MEASUREMENT RESULT: "AFC0011\_fin"

11/21/2017 4:26PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.165000         | 39.70         | 10.5         | 65            | 25.5         | QP       | L1   | GND |
| 0.425000         | 32.70         | 10.7         | 57            | 24.6         | QP       | L1   | GND |
| 0.740000         | 28.60         | 10.8         | 56            | 27.4         | QP       | L1   | GND |
| 1.270000         | 26.90         | 10.9         | 56            | 29.1         | QP       | L1   | GND |
| 1.905000         | 25.00         | 11.0         | 56            | 31.0         | QP       | L1   | GND |
| 16.090000        | 24.10         | 11.4         | 60            | 35.9         | QP       | L1   | GND |

#### MEASUREMENT RESULT: "AFC0011\_fin2"

11/21/2017 4:26PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.165000         | 27.90         | 10.5         | 55            | 27.3         | AV       | L1   | GND |
| 0.425000         | 25.30         | 10.7         | 47            | 22.0         | AV       | L1   | GND |
| 0.740000         | 22.50         | 10.8         | 46            | 23.5         | AV       | L1   | GND |
| 1.270000         | 19.30         | 10.9         | 46            | 26.7         | AV       | L1   | GND |
| 1.905000         | 16.70         | 11.0         | 46            | 29.3         | AV       | L1   | GND |
| 16.090000        | 17.50         | 11.4         | 50            | 32.5         | AV       | L1   | GND |

## ACCURATE TECHNOLOGY CO.,LTD

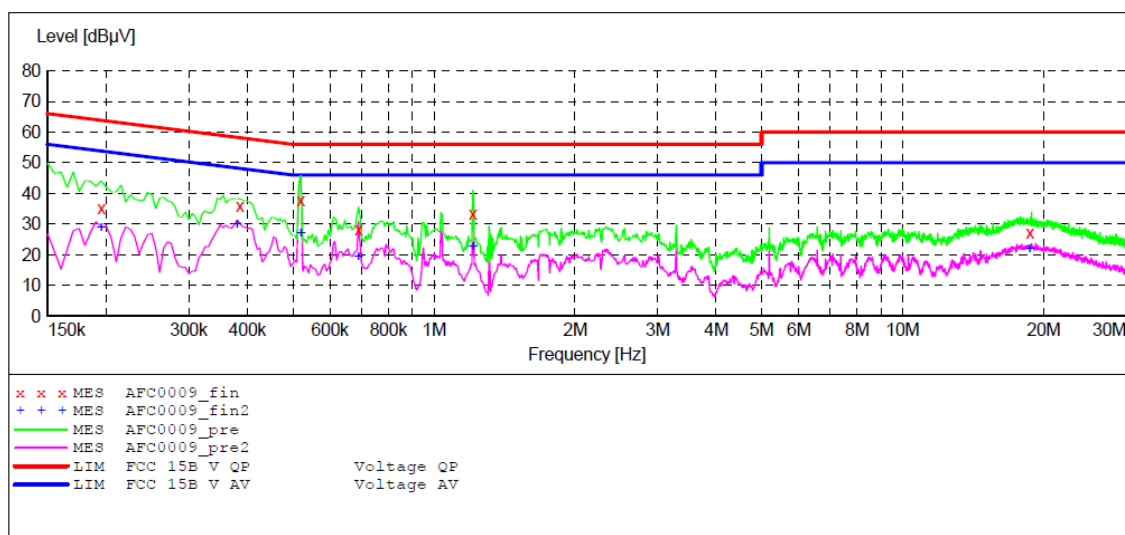
### CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wireless Charger M/N:AFCC01  
 Manufacturer: Xinyixin  
 Operating Condition: Charging  
 Test Site: 1#Shielding Room  
 Operator: star  
 Test Specification: N 120V/60Hz  
 Comment: Report NO.:ATE20172164  
 Start of Test: 11/21/2017 / 4:12:18PM

### SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector          | Meas. Time | IF Bandw. | Transducer    |
|-----------------|----------------|------------|-------------------|------------|-----------|---------------|
| 9.0 kHz         | 150.0 kHz      | 100.0 Hz   | QuasiPeak Average | 1.0 s      | 200 Hz    | NSLK8126 2008 |
| 150.0 kHz       | 30.0 MHz       | 5.0 kHz    | QuasiPeak Average | 1.0 s      | 9 kHz     | NSLK8126 2008 |



### MEASUREMENT RESULT: "AFC0009\_fin"

11/21/2017 4:16PM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.195000      | 35.10      | 10.5      | 64         | 28.7      | QP       | N    | GND |
| 0.385000      | 36.00      | 10.7      | 58         | 22.2      | QP       | N    | GND |
| 0.520000      | 37.70      | 10.7      | 56         | 18.3      | QP       | N    | GND |
| 0.690000      | 28.10      | 10.8      | 56         | 27.9      | QP       | N    | GND |
| 1.210000      | 33.20      | 10.9      | 56         | 22.8      | QP       | N    | GND |
| 18.670000     | 27.20      | 11.4      | 60         | 32.8      | QP       | N    | GND |

### MEASUREMENT RESULT: "AFC0009\_fin2"

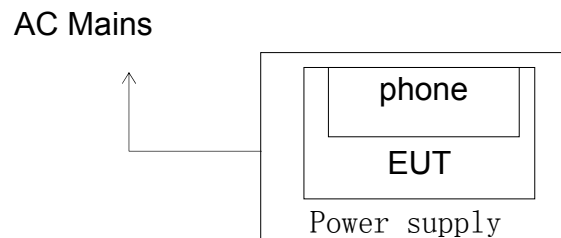
11/21/2017 4:16PM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.195000      | 29.00      | 10.5      | 54         | 24.8      | AV       | N    | GND |
| 0.380000      | 30.20      | 10.7      | 48         | 18.1      | AV       | N    | GND |
| 0.520000      | 27.00      | 10.7      | 46         | 19.0      | AV       | N    | GND |
| 0.690000      | 19.50      | 10.8      | 46         | 26.5      | AV       | N    | GND |
| 1.210000      | 22.90      | 10.9      | 46         | 23.1      | AV       | N    | GND |
| 18.670000     | 22.20      | 11.4      | 50         | 27.8      | AV       | N    | GND |

## 5. RADIATED EMISSION MEASUREMENT

### 5.1. Block Diagram of Test

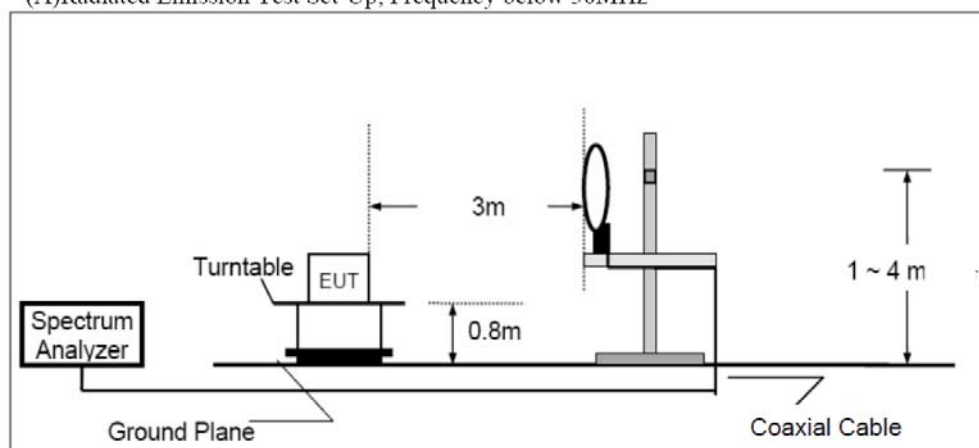
#### 5.1.1. Block diagram of connection between the EUT and simulators



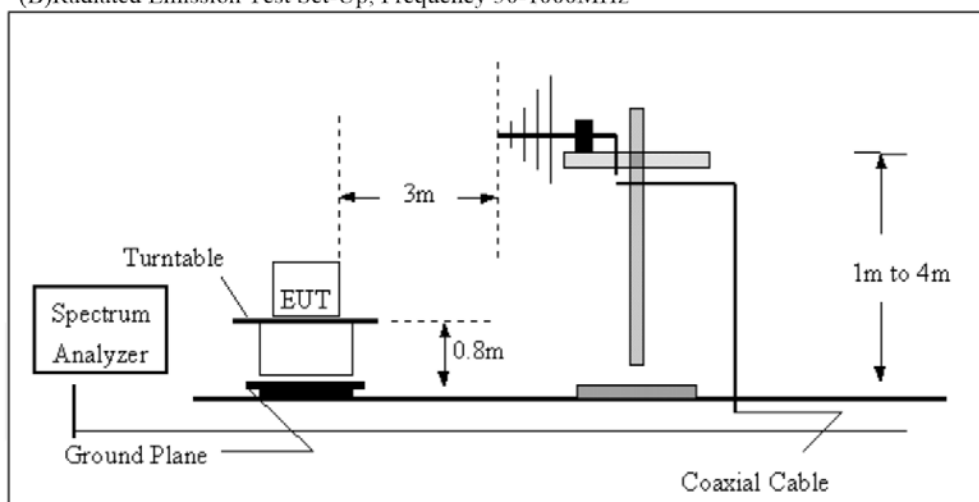
(EUT: Wireless Charger)

#### 5.1.2. Block diagram of test setup (In chamber)

(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



## 5.2.Radiated Emission Limit (Class B)

| Frequency (MHz) | Field Strength Limitation |      | Field Strength Limitation at 3m Measurement Dist |                         |
|-----------------|---------------------------|------|--------------------------------------------------|-------------------------|
|                 | (uV/m)                    | Dist | (uV/m)                                           | (dBuV/m)                |
| 0.009 – 0.490   | 2400 / F(KHz)             | 300m | 10000 * 2400/F(KHz)                              | 20log 2400/F(KHz) + 80  |
| 0.490 – 1.705   | 24000 / F(KHz)            | 30m  | 100 * 24000/F(KHz)                               | 20log 24000/F(KHz) + 40 |
| 1.705 – 30.00   | 30                        | 30m  | 100* 30                                          | 20log 30 + 40           |
| 30.0 – 88.0     | 100                       | 3m   | 100                                              | 20log 100               |
| 88.0 – 216.0    | 150                       | 3m   | 150                                              | 20log 150               |
| 216.0 – 960.0   | 200                       | 3m   | 200                                              | 20log 200               |
| Above 960.0     | 500                       | 3m   | 500                                              | 20log 500               |

Limit: [2400/125=19.2uV/m@300m](#)

Distance Correction Factor=40log(test distance/specific distance)

## 5.3.Manufacturer

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 5.3.1.Wireless Charger (EUT)

Model Number: AFCC01

Manufacturer: Shenzhen Xinyixin Technology Co., Ltd

## 5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in test mode and measure it.

## 5.5.DATA SAMPLE

| Frequency (MHz) | Reading (dB $\mu$ V) | Factor (dB/m) | Result (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Remark |
|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|--------|
| X.XX            | 49.83                | -22.03        | 27.80                 | 43.50                | -15.70      | QP     |

Frequency(MHz) = Emission frequency in MHz

Reading(dB $\mu$ V) = Uncorrected Analyzer/Receiver reading

Factor (dB/m)= Antenna factor + Cable Loss – Amplifier gain

Result(dB $\mu$ V/m) = Reading + Factor

Limit (dB $\mu$ V/m)= Limit stated in standard

Margin (dB) = Result(dB $\mu$ V/m) - Limit (dB $\mu$ V/m)

Calculation Formula:

$$\text{Margin(dB)} = \text{Result (dB}\mu\text{V/m)} - \text{Limit(dB}\mu\text{V/m)}$$
$$\text{Result(dB}\mu\text{V/m)} = \text{Reading(dB}\mu\text{V)} + \text{Factor(dB/m)}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

### 5.1. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated emission measurement.

From 9kHz to 30MHz at distance 3m The EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

From 30MHz to 1000MHz at distance 3m The measuring antenna height varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for both vertical and horizontal antenna polarization.

The final measurement will be performed with an EMI Receiver set to Quasi Peak detector for the frequency bands 9kHz to 90kHz and 110 to 490 kHz where an average detector will be used according to Section 15.209(d)(2).

The final level, expressed in dBuV/m, is arrived at by taking the reading from the EMI receiver(Level dBuV) and adding the antenna correction factor and cable loss factor(Factor dB) to it. This result then has to be compared with the relevant FCC limit. The resolution bandwidth during the measurement is as follows:

9kHz – 150kHz: ResBW:200Hz

150kHz – 30MHz: ResBW:9kHz

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz from 30MHz to 1000MHz.

### 5.2. Radiated Emission Noise Measurement Result

**PASS.**

From 9kHz to 30MHz(Low channel 110kHz)

| Frequency (MHz) | Quasi Peak (dB $\mu$ V/m) | Detector | Azimuth | Height (cm) | Limit @3m (dB $\mu$ V/m) | Margin (dB) |
|-----------------|---------------------------|----------|---------|-------------|--------------------------|-------------|
| 0.110           | 86.12                     | AV       | 176     | 128         | 106.8                    | -20.68      |
| 2.21            | 37.20                     | QP       | 355     | 155         | 69.5                     | -32.30      |
| 2.59            | 36.42                     | QP       | 228     | 201         | 69.5                     | -33.08      |
| 0.110           | 80.39                     | AV       | 208     | 142         | 106.8                    | -26.41      |
| 2.66            | 32.31                     | QP       | 35      | 157         | 69.5                     | -37.19      |
| 3.56            | 35.38                     | QP       | 38      | 146         | 69.5                     | -34.12      |

From 9kHz to 30MHz(Low channel 157kHz)

| Frequency (MHz) | Quasi Peak (dB $\mu$ V/m) | Detector | Azimuth | Height (cm) | Limit @3m (dB $\mu$ V/m) | Margin (dB) |
|-----------------|---------------------------|----------|---------|-------------|--------------------------|-------------|
| 0.157           | 85.48                     | AV       | 78      | 124         | 103.7                    | -18.22      |
| 2.21            | 36.20                     | QP       | 356     | 150         | 69.5                     | -33.30      |
| 2.59            | 35.42                     | QP       | 229     | 202         | 69.5                     | -34.08      |
| 0.157           | 79.87                     | AV       | 145     | 145         | 103.7                    | -23.83      |
| 2.66            | 31.31                     | QP       | 37      | 154         | 69.5                     | -38.19      |
| 3.56            | 34.38                     | QP       | 40      | 148         | 69.5                     | -35.12      |

From 9kHz to 30MHz(Low channel 205kHz)

| Frequency (MHz) | Quasi Peak (dB $\mu$ V/m) | Detector | Azimuth | Height (cm) | Limit @3m (dB $\mu$ V/m) | Margin (dB) |
|-----------------|---------------------------|----------|---------|-------------|--------------------------|-------------|
| 0.205           | 82.67                     | AV       | 176     | 128         | 101.4                    | -18.73      |
| 2.21            | 37.56                     | QP       | 315     | 158         | 69.5                     | -31.94      |
| 2.59            | 36.42                     | QP       | 228     | 101         | 69.5                     | -33.08      |
| 0.205           | 75.98                     | AV       | 208     | 112         | 101.4                    | -25.42      |
| 2.66            | 31.76                     | QP       | 323     | 137         | 69.5                     | -37.74      |
| 3.56            | 36.02                     | QP       | 130     | 121         | 69.5                     | -33.48      |

Part 15 Section 15.31(f)(2) (9kHz-30MHz)

Limit at 3m=Limit at 300m-40\*log(3(m)/300(m))

Limit at 3m=Limit at 30m-40\*log(3(m)/30(m))



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Site: 1# Chamber

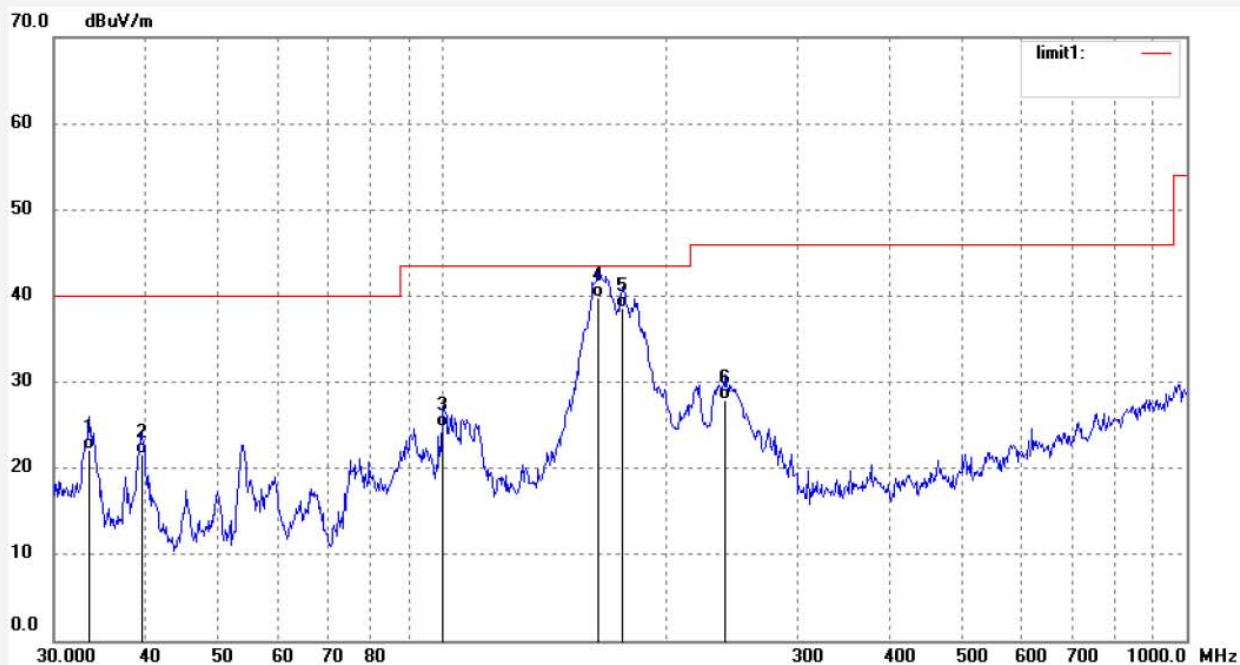
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2017 #1139  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Wireless Charger  
Mode: Low channel  
Model: AFCC01  
Manufacturer: Xinyixin

Polarization: Horizontal  
Power Source: DC 24V  
Date: 2017/11/24  
Time: 11:47:22  
Engineer Signature: star  
Distance: 3m

Note: Report No.:ATE20172264



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 33.4520     | 43.25            | -21.06      | 22.19           | 40.00          | -17.81      | QP       |             |               |        |
| 2   | 39.4587     | 45.00            | -23.37      | 21.63           | 40.00          | -18.37      | QP       |             |               |        |
| 3   | 100.1187    | 52.77            | -28.04      | 24.73           | 43.50          | -18.77      | QP       |             |               |        |
| 4   | 162.0197    | 66.74            | -26.86      | 39.88           | 43.50          | -3.62       | QP       |             |               |        |
| 5   | 174.4265    | 65.01            | -26.46      | 38.55           | 43.50          | -4.95       | QP       |             |               |        |
| 6   | 240.1442    | 51.70            | -23.72      | 27.98           | 46.00          | -18.02      | QP       |             |               |        |

Job No.: star2017 #1140

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Wireless Charger

Mode: Low channel

Model: AFCC01

Manufacturer: Xinyixin

Polarization: Vertical

Power Source: DC 24V

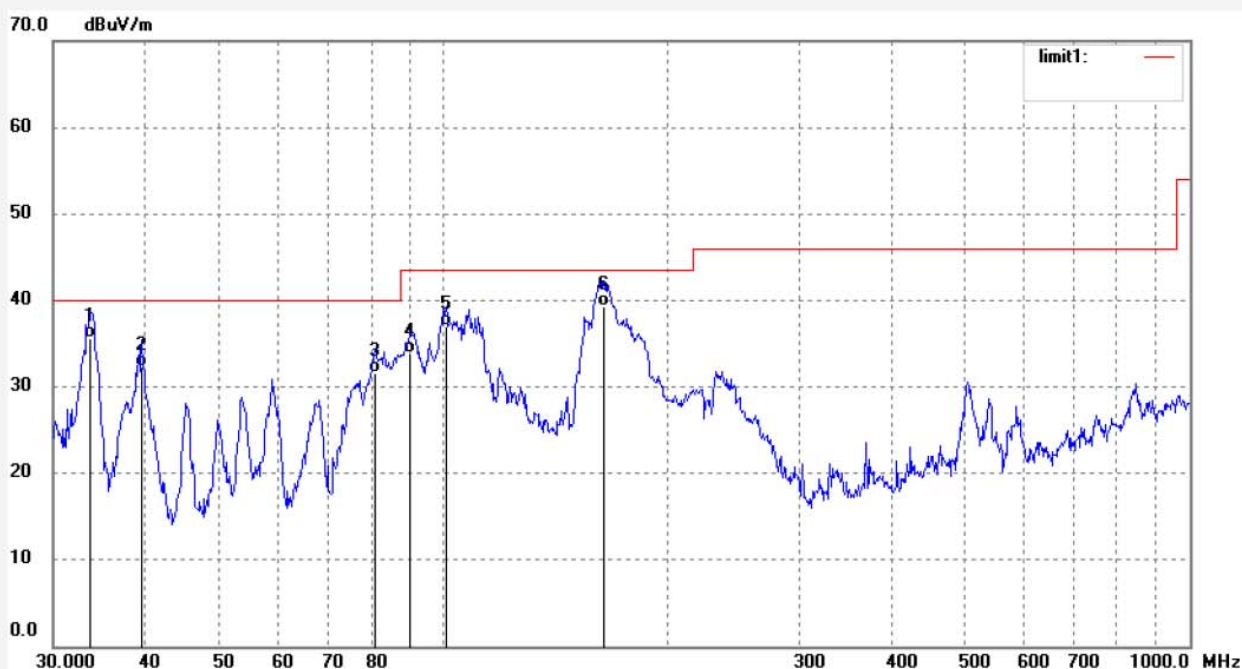
Date: 2017/11/24

Time: 11:48:32

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172264



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 33.6880        | 56.78               | -21.12         | 35.66              | 40.00             | -4.34          | QP       |                |                  |        |
| 2   | 39.4587        | 55.60               | -23.37         | 32.23              | 40.00             | -7.77          | QP       |                |                  |        |
| 3   | 81.0885        | 59.00               | -27.42         | 31.58              | 40.00             | -8.42          | QP       |                |                  |        |
| 4   | 90.4196        | 61.22               | -27.42         | 33.80              | 43.50             | -9.70          | QP       |                |                  |        |
| 5   | 100.8247       | 65.14               | -28.05         | 37.09              | 43.50             | -6.41          | QP       |                |                  |        |
| 6   | 164.3129       | 65.90               | -26.61         | 39.29              | 43.50             | -4.21          | QP       |                |                  |        |



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Site: 1# Chamber

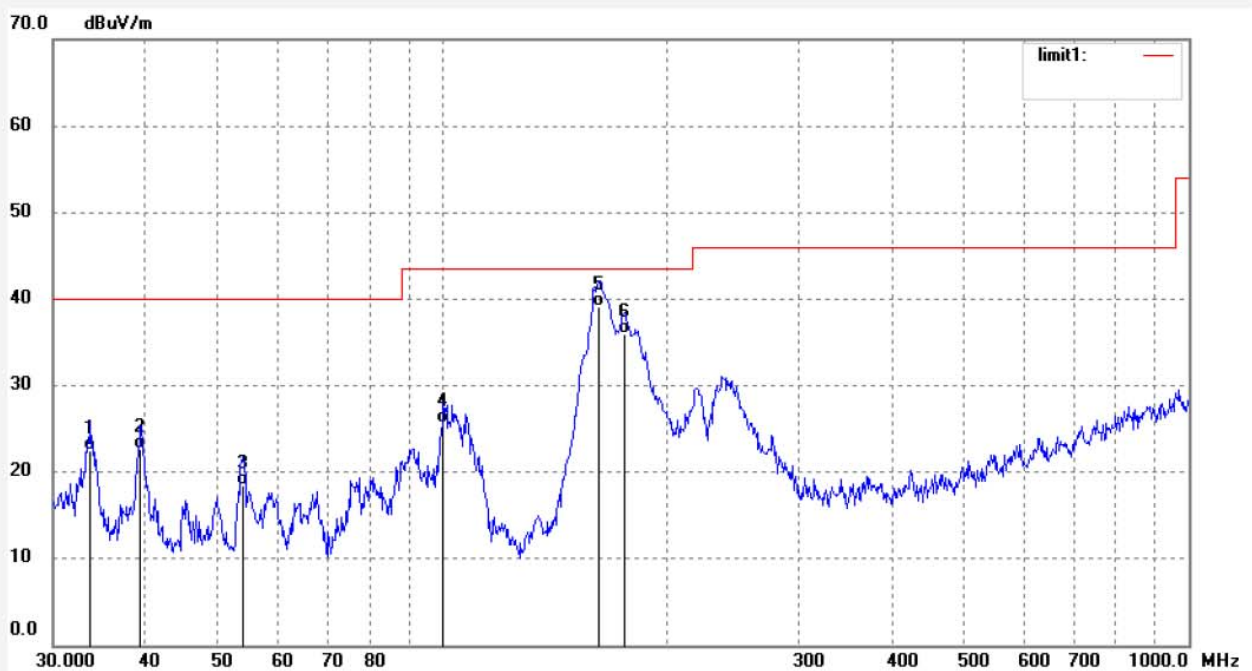
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2017 #1142  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Wireless Charger  
Mode: Middel channel  
Model: AFCC01  
Manufacturer: Xinyixin

Polarization: Horizontal  
Power Source: DC 24V  
Date: 2017/11/24  
Time: 11:50:17  
Engineer Signature: star  
Distance: 3m

Note: Report No.:ATE20172264



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 33.6880     | 43.67            | -21.12      | 22.55           | 40.00          | -17.45      | QP       |             |               |        |
| 2   | 39.3203     | 46.01            | -23.30      | 22.71           | 40.00          | -17.29      | QP       |             |               |        |
| 3   | 53.9450     | 45.38            | -26.84      | 18.54           | 40.00          | -21.46      | QP       |             |               |        |
| 4   | 100.1187    | 53.68            | -28.04      | 25.64           | 43.50          | -17.86      | QP       |             |               |        |
| 5   | 162.0197    | 66.00            | -26.86      | 39.14           | 43.50          | -4.36       | QP       |             |               |        |
| 6   | 175.0404    | 62.40            | -26.51      | 35.89           | 43.50          | -7.61       | QP       |             |               |        |

Job No.: star2017 #1141

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Wireless Charger

Mode: Middel channel

Model: AFCC01

Manufacturer: Xinyixin

Polarization: Vertical

Power Source: DC 24V

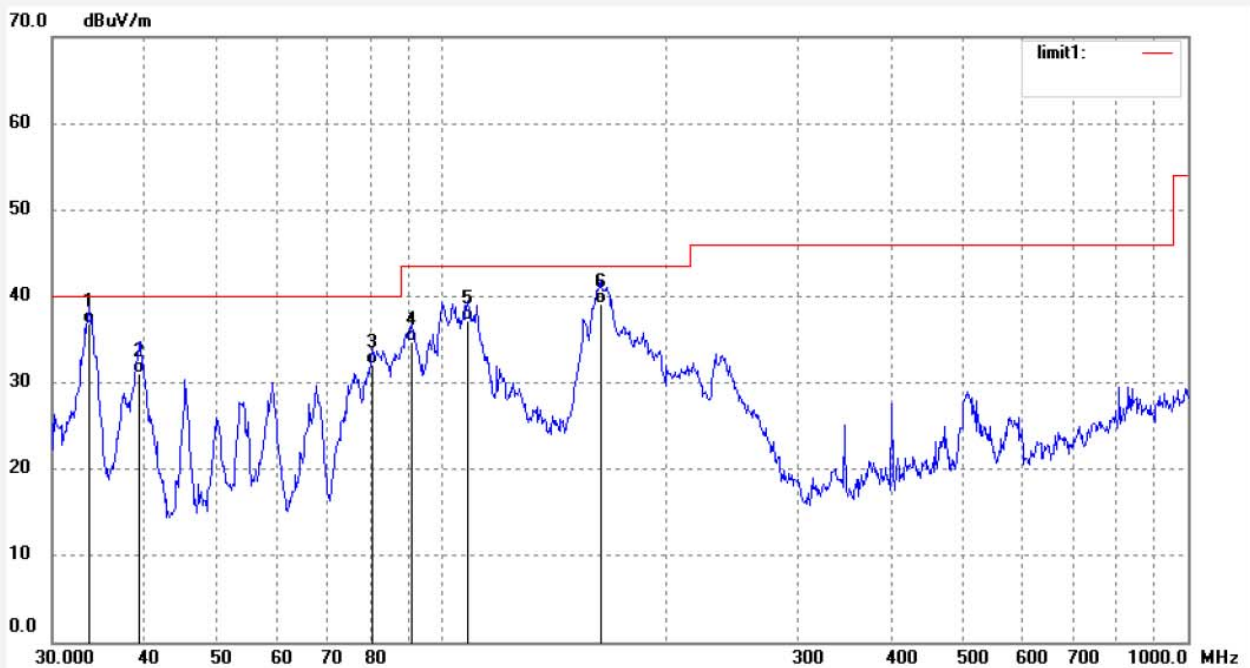
Date: 2017/11/24

Time: 11:49:13

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172264



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 33.6880        | 58.00               | -21.12         | 36.88              | 40.00             | -3.12          | QP       |                |                  |        |
| 2   | 39.1824        | 54.26               | -23.24         | 31.02              | 40.00             | -8.98          | QP       |                |                  |        |
| 3   | 80.8041        | 59.46               | -27.40         | 32.06              | 40.00             | -7.94          | QP       |                |                  |        |
| 4   | 91.0574        | 62.11               | -27.41         | 34.70              | 43.50             | -8.80          | QP       |                |                  |        |
| 5   | 108.1647       | 64.83               | -27.60         | 37.23              | 43.50             | -6.27          | QP       |                |                  |        |
| 6   | 163.1622       | 65.87               | -26.73         | 39.14              | 43.50             | -4.36          | QP       |                |                  |        |



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Site: 1# Chamber

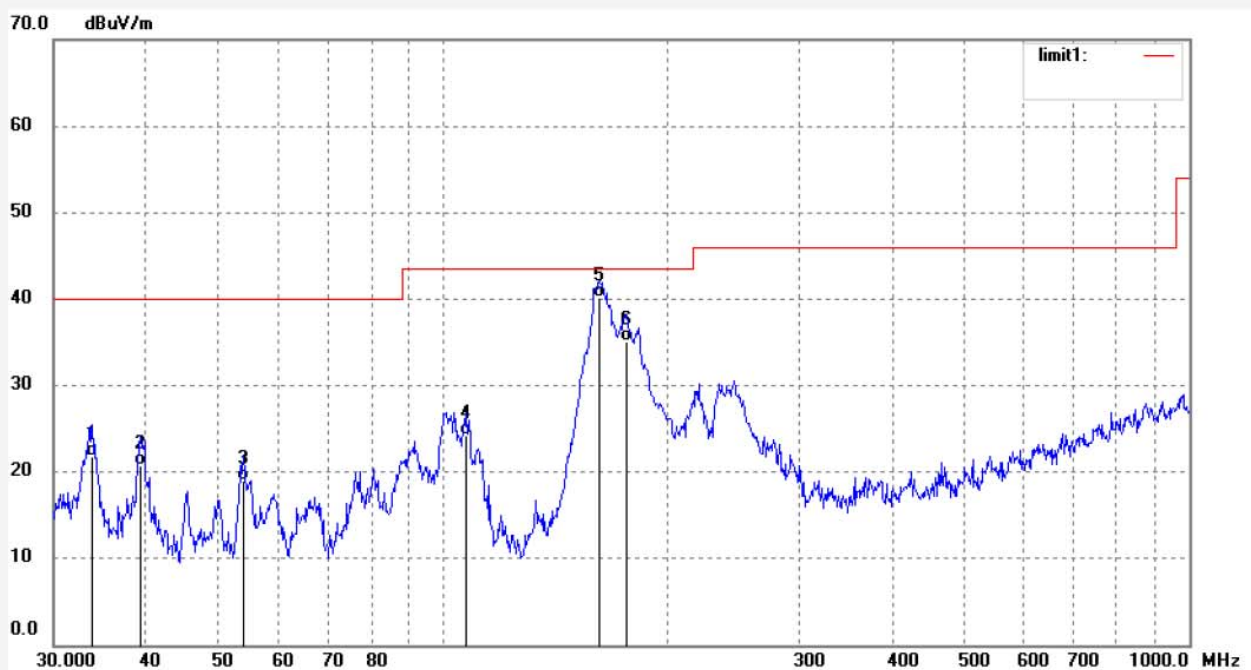
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2017 #1143  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Wireless Charger  
Mode: High channel  
Model: AFCC01  
Manufacturer: Xinyixin

Polarization: Horizontal  
Power Source: DC 24V  
Date: 2017/11/24  
Time: 11:50:53  
Engineer Signature: star  
Distance: 3m

Note: Report No.:ATE20172264



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 33.8066     | 43.00            | -21.16      | 21.84           | 40.00          | -18.16      | QP       |             |               |        |
| 2   | 39.3203     | 44.11            | -23.30      | 20.81           | 40.00          | -19.19      | QP       |             |               |        |
| 3   | 53.9450     | 45.77            | -26.84      | 18.93           | 40.00          | -21.07      | QP       |             |               |        |
| 4   | 107.4073    | 52.03            | -27.73      | 24.30           | 43.50          | -19.20      | QP       |             |               |        |
| 5   | 162.0197    | 67.10            | -26.86      | 40.24           | 43.50          | -3.26       | QP       |             |               |        |
| 6   | 176.2747    | 61.55            | -26.39      | 35.16           | 43.50          | -8.34       | QP       |             |               |        |



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Site: 1# Chamber

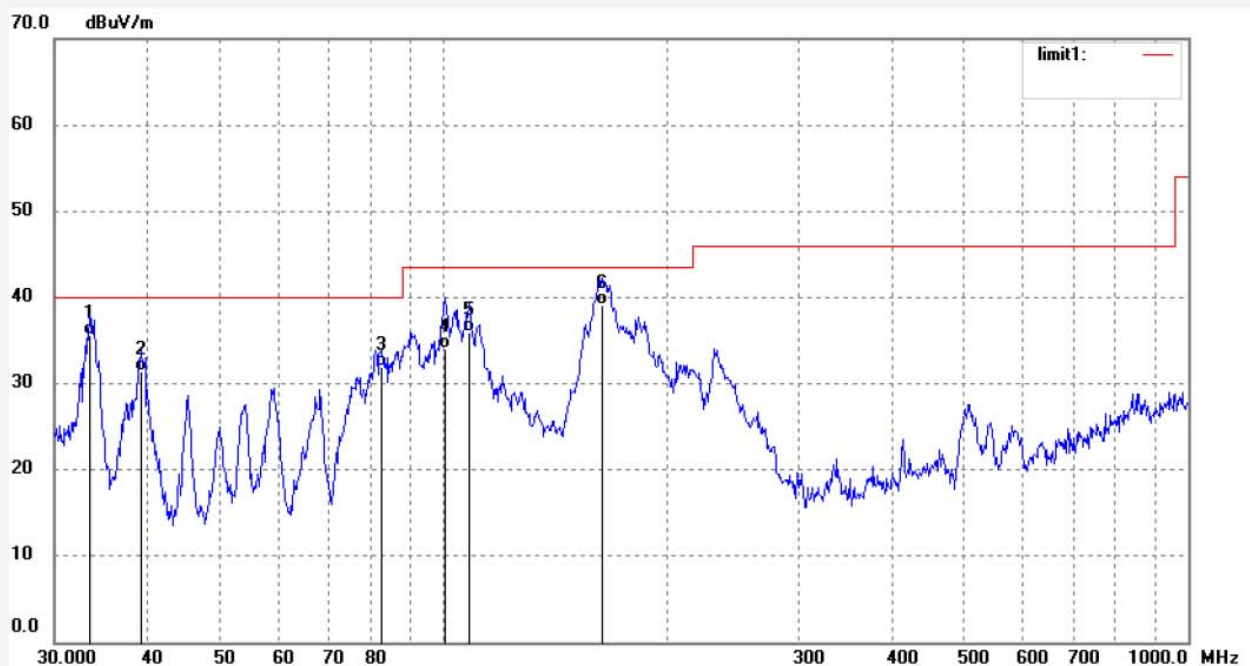
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2017 #1144  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Wireless Charger  
Mode: High channel  
Model: AFCC01  
Manufacturer: Xinyixin

Polarization: Vertical  
Power Source: DC 24V  
Date: 2017/11/24  
Time: 11:51:26  
Engineer Signature: star  
Distance: 3m

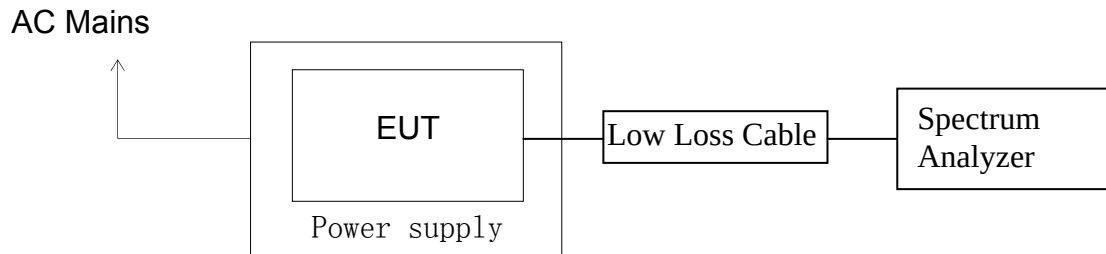
Note: Report No.: ATE20172264



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 33.4520     | 56.73            | -21.06      | 35.67           | 40.00          | -4.33       | QP       |             |               |        |
| 2   | 39.1824     | 54.62            | -23.24      | 31.38           | 40.00          | -8.62       | QP       |             |               |        |
| 3   | 82.5257     | 59.33            | -27.43      | 31.90           | 40.00          | -8.10       | QP       |             |               |        |
| 4   | 100.4711    | 62.06            | -28.05      | 34.01           | 43.50          | -9.49       | QP       |             |               |        |
| 5   | 108.1647    | 63.50            | -27.60      | 35.90           | 43.50          | -7.60       | QP       |             |               |        |
| 6   | 163.1622    | 65.81            | -26.73      | 39.08           | 43.50          | -4.42       | QP       |             |               |        |

## 6. 99% OCCUPIED BANDWIDTH

### 6.1. Block Diagram of Test Setup



(EUT: Wireless Charger)

### 6.2. EUT Configuration on Measurement

The following equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 6.3. Operating Condition of EUT

6.3.1. Setup the EUT and simulator as shown as Section 6.1.

6.3.2. Turn on the power of all equipment.

6.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 110-205kHz. We select 110kHz, 157kHz and 205kHz TX frequency to transmit.

### 6.4. Test Procedure

6.4.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.4.2. Set RBW of spectrum analyzer to 10 Hz and VBW to 30 Hz.

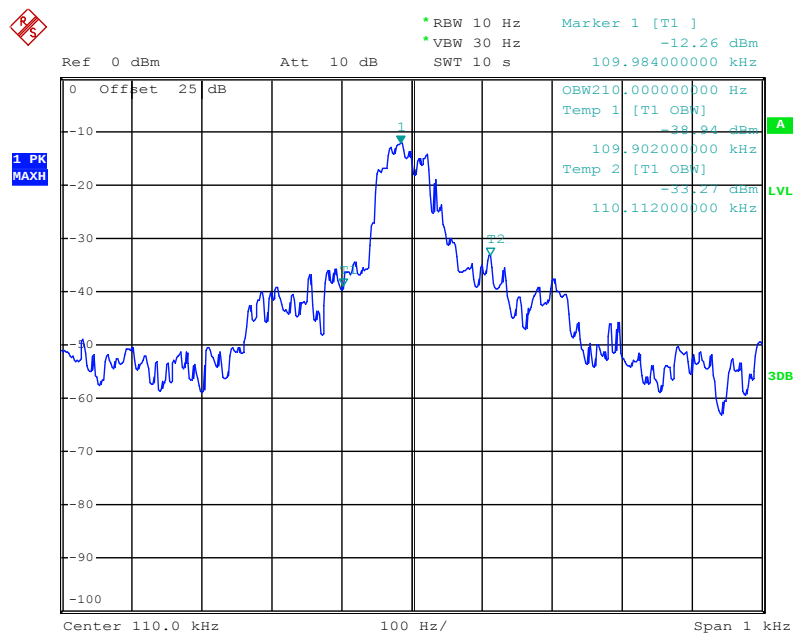
6.4.3. Set SPA "Meas" function, Select "Occupied Bandwidth" function, Select "99% Power Bandwidth". The frequency of the upper and lower markers indicating the edges of the transmitters "99% Power" emission bandwidth shall be recorded to automate by SPA.

## 6.5.Measurement Result

| Frequency<br>(kHz) | 99% Occupied Bandwidth<br>(Hz) |
|--------------------|--------------------------------|
| 110                | 210                            |
| 157                | 200                            |
| 205                | 212                            |

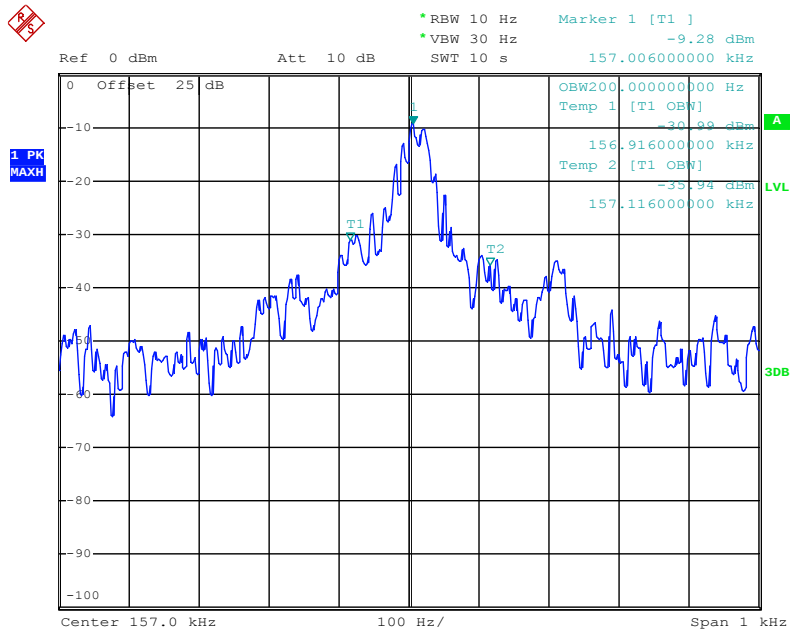
The spectrum analyzer plots are attached as below.

### Low Channel



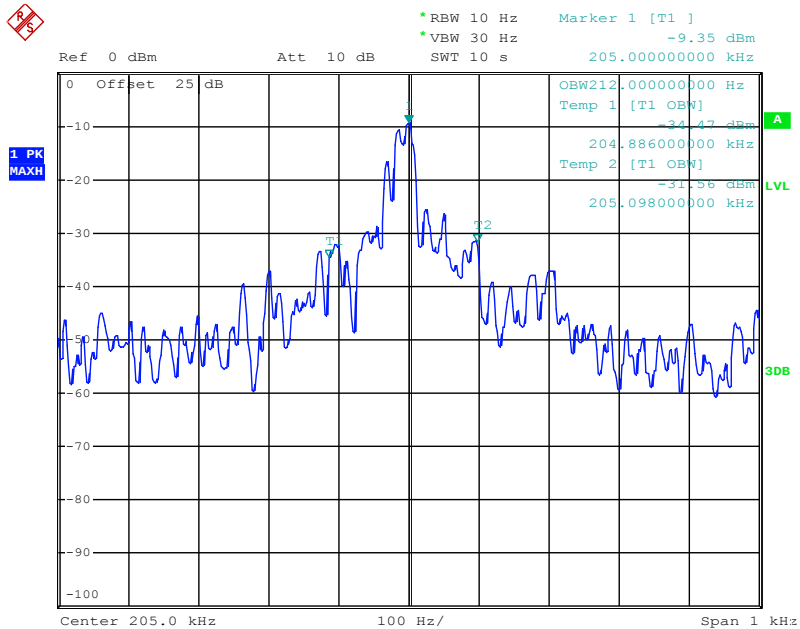
Date: 23.NOV.2017 15:16:02

## Middle Channel



Date: 23.NOV.2017 15:35:23

## High Channel



Date: 23.NOV.2017 16:09:09

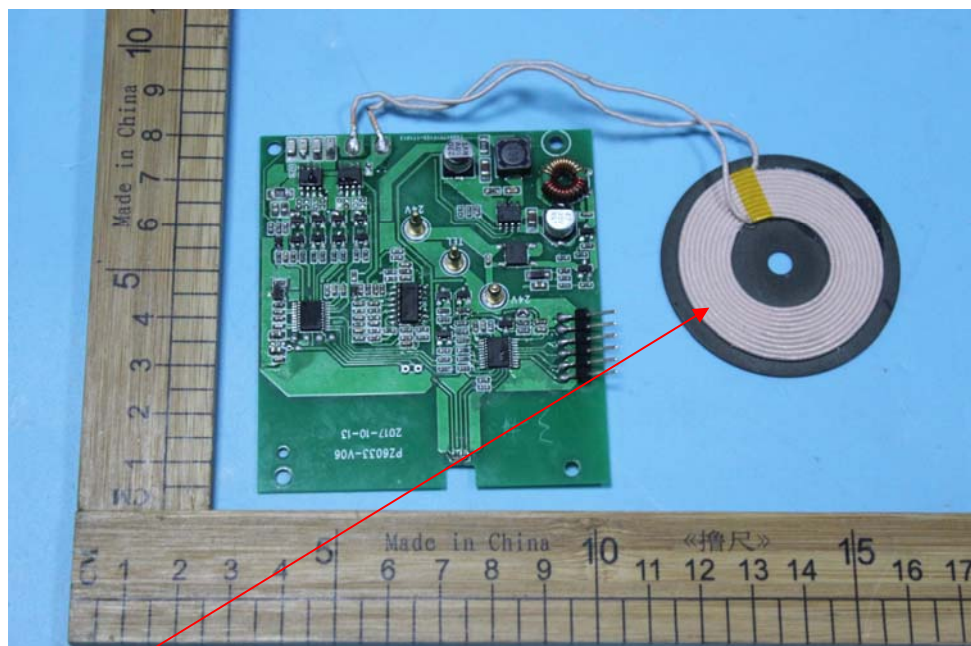
## 7. ANTENNA REQUIREMENT

### 7.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 7.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The max Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna