



**FCC TEST REPORT**  
**For**  
**Shenzhen Kaixinghui Technology Co., Ltd.**  
**Wireless Charger**  
**Test Model: X2**  
**Additional Model No.: X1, X3, X4, X7**

|                                |  |
|--------------------------------|--|
| Prepared for                   | : Shenzhen Kaixinghui Technology Co., Ltd.   |
| Address                        | : 1~3/F, No.6 Yunfeng Road, Queshan, Gaofeng Community, Dalang Street, Longhua District, Shenzhen, China |
| Prepared by                    | : Shenzhen LCS Compliance Testing Laboratory Ltd.  |
| Address                        | : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China     |
| Tel                            | : (+86)755-82591330  |
| Fax                            | : (+86)755-82591332  |
| Web                            | : <a href="http://www.LCS-cert.com">www.LCS-cert.com</a>   |
| Mail                           | : <a href="mailto:webmaster@LCS-cert.com">webmaster@LCS-cert.com</a>                                     |
| Date of receipt of test sample | : February 22, 2022  |
| Number of tested samples       | : 2  |
| Serial number                  | : 220221038A-1(Engineer sample), 220221038A-2(Normal sample)   |
| Date of Test                   | : February 22, 2022 ~ March 05, 2022   |
| Date of Report                 | : March 09, 2022   |



Scan code to check authenticity

**FCC TEST REPORT  
FCC CFR 47 PART 18****Report Reference No. .... : LCS220221038AEA**

Date Of Issue..... : March 09, 2022

**Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.**Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street,  
Baoan District, Shenzhen, ChinaTesting Location/ Procedure..... : Full application of Harmonised standards ■  
Partial application of Harmonised standards □  
Other standard testing method □**Applicant's Name..... : Shenzhen Kaixinghui Technology Co., Ltd.**Address..... : 1~3/F, No.6 Yunfeng Road, Queshan, Gaofeng Community, Dalang  
Street, Longhua District, Shenzhen, China**Test Specification**

Standard..... : FCC CFR 47 PART 18

Test Report Form No..... : LCSEMC-1.0

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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**Test Item Description..... : Wireless Charger**

Trade Mark..... : N/A

Test Model..... : X2

Power Supply..... : Input: 5V~2A, 9V~2A  
Output: 5W/7.5W/10W Max**Result ..... : Positive****Compiled by:**

Diamond Lu// Administrator

**Supervised by:**

Jin Wang/ Technique principal

**Approved by:**

Gavin Liang/ Manager

**FCC TEST REPORT**

|                          |                        |  |
|--------------------------|------------------------|--|
| <b>Test Report No. :</b> | <b>LCS220221038AEA</b> | <u>March 09, 2022</u><br>Date of issue |
|--------------------------|------------------------|--|

|                          |  |
|--------------------------|--|
| Test Model.....          | : X2   |
| EUT.....                 | : Wireless Charger   |
| <b>Applicant.....</b>    | <b>: Shenzhen Kaixinghui Technology Co., Ltd.</b>  |
| Address.....             | : 1~3/F, No.6 Yunfeng Road, Queshan, Gaofeng Community, Dalang Street, Longhua District, Shenzhen, China |
| Telephone.....           | : /  |
| Fax.....                 | : /  |
| <b>Manufacturer.....</b> | <b>: Shenzhen Kaixinghui Technology Co., Ltd.</b>  |
| Address.....             | : 1~3/F, No.6 Yunfeng Road, Queshan, Gaofeng Community, Dalang Street, Longhua District, Shenzhen, China |
| Telephone.....           | : /  |
| Fax.....                 | : /  |
| <b>Factory.....</b>      | <b>: Shenzhen Kaixinghui Technology Co., Ltd.</b>  |
| Address.....             | : 1~3/F, No.6 Yunfeng Road, Queshan, Gaofeng Community, Dalang Street, Longhua District, Shenzhen, China |
| Telephone.....           | : /  |
| Fax.....                 | : /  |

|                    |                 |
|--------------------|-----------------|
| <b>Test Result</b> | <b>Positive</b> |
|--------------------|-----------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



## Revision History

| Revision | Issue Date     | Revision Content | Revised By |
|----------|----------------|------------------|------------|
| 000      | March 09, 2022 | Initial Issue    | --         |
|          |                |                  |            |
|          |                |                  |            |



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## 1. GENERAL INFORMATION

### 1.1 Description of Device (EUT)

EUT : Wireless Charger

Test Model : X2

Additional Model No. : X1, X3, X4, X7

Model Declaration : PCB board, structure and internal of these model(s) are the same, So no additional models were tested

Power Supply : Input: 5V $\overline{=}$ 2A, 9V $\overline{=}$ 2A  
Output: 5W/7.5W/10W Max

Hardware Version : TX-X2-330-V10

Software Version : Checksum: BBA6

Wireless Charging :

Operating Frequency : 110.3KHz~205KHz

Modulation Type : Continuous Wave

Antenna Type : Coil Antenna

### 1.2 Support equipment List

| Manufacturer | Description | Model    | Serial Number | Certificate |
|--------------|-------------|----------|---------------|-------------|
| OPPO         | Adapter     | OP52KAUH | --            | FCC         |
| Apple        | Phone       | ipone 11 | --            | FCC         |

Note: Auxiliary equipment is provided by the laboratory.

### 1.3 External I/O Cable

| I/O Port Description | Quantity | Cable |
|----------------------|----------|-------|
| Type-C Port          | 1        | N/A   |



## 1.4 Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

## 1.5 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

## 1.6 Measurement Uncertainty

| Test Item              | Frequency Range | Uncertainty | Note |
|------------------------|-----------------|-------------|------|
| Radiation Uncertainty  | 9KHz~30MHz      | 3.10dB      | (1)  |
|                        | 30MHz~200MHz    | 2.96dB      | (1)  |
|                        | 200MHz~1000MHz  | 3.10dB      | (1)  |
|                        | 1GHz~26.5GHz    | 3.80dB      | (1)  |
|                        | 26.5GHz~40GHz   | 3.90dB      | (1)  |
| Conduction Uncertainty | 150kHz~30MHz    | 1.63dB      | (1)  |
| Power disturbance      | 30MHz~300MHz    | 1.60dB      | (1)  |

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



## 1.7 Description of Test Modes

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

Modulation Type: CW (Continuous Wave)

| Test Modes  |  |            |
|---|--|------------|
| Mode 1  | AC/DC Adapter (9V/2A) + EUT + iPhone (Battery Status: <1%)   | Record     |
| Mode 2  | AC/DC Adapter (9V/2A) + EUT + iPhone (Battery Status: <50%)  | Pre-tested |
| Mode 3  | AC/DC Adapter (9V/2A) + EUT + iPhone (Battery Status: < 99%) | Pre-tested |
| Note: All test modes were pre-tested, but we only recorded the worst case in this report. |  |            |



## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with MP-5, and FCC CFR PART 18.

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The EUT was operated in the charging and compunction mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 18.305 and 18.307 under the FCC Rules Part 18.

### 2.3 General Test Procedures

#### 2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in FCC MP-5 for Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in FCC MP-5 for radiated emission.



### 3. SYSTEM TEST CONFIGURATION

#### 3.1 Justification

The system was configured for testing in a normal condition.

#### 3.2 EUT Exercise Software

N/A.

#### 3.3 Special Accessories

N/A.

#### 3.4 Block Diagram/Schematics

Please refer to the related document.

#### 3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

#### 3.6 Test Setup

Please refer to the test setup photo.



#### 4. SUMMARY OF TEST EQUIPMENT

| Item | Equipment                | Manufacturer   | Model No.   | Serial No.      | Cal Date   | Due Date   |
|------|--------------------------|----------------|-------------|-----------------|------------|------------|
| 1    | MXA Signal Analyzer      | Agilent        | N9020A      | MY49100040      | 2021-06-21 | 2022-06-20 |
| 2    | SPECTRUM ANALYZER        | R&S            | FSP40       | 100503          | 2021-11-16 | 2022-11-15 |
| 3    | 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M      | 03CH03-HY       | 2021-06-21 | 2022-06-20 |
| 4    | Positioning Controller   | MF             | MF7082      | MF78020803      | 2021-06-21 | 2022-06-20 |
| 5    | EMI Test Software        | AUDIX          | E3          | /               | N/A        | N/A        |
| 6    | EMI Test Receiver        | R&S            | ESR 7       | 101181          | 2021-06-21 | 2022-06-20 |
| 7    | Active Loop Antenna      | SCHWARZBECK    | FMZB 1519B  | 00005           | 2021-07-25 | 2024-07-24 |
| 8    | By-log Antenna           | SCHWARZBECK    | VULB9163    | 9163-470        | 2021-07-25 | 2024-07-24 |
| 9    | Horn Antenna             | SCHWARZBECK    | BBHA 9120D  | 9120D-1925      | 2021-07-01 | 2024-06-30 |
| 10   | EMI Test Receiver        | R&S            | ESPI        | 101840          | 2021-06-21 | 2022-06-20 |
| 11   | Artificial Mains         | R&S            | ENV216      | 101288          | 2021-06-21 | 2022-06-20 |
| 12   | 10dB Attenuator          | SCHWARZBECK    | MTS-IMP-136 | 261115-001-0032 | 2021-06-21 | 2022-06-20 |
| 13   | EMI Test Software        | Farad          | EZ          | /               | N/A        | N/A        |



## 5. SUMMARY OF TEST RESULT

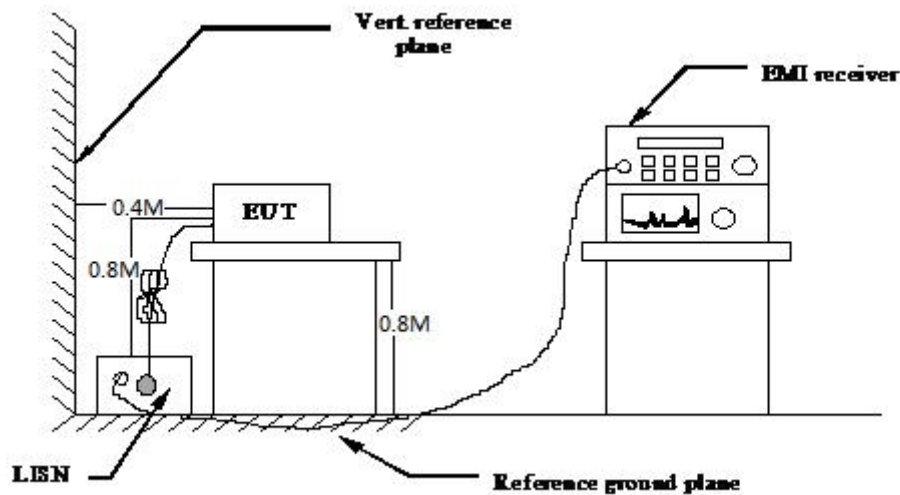
| Test Item             | FCC Rule No. | Temperature conditions | Power source conditions | C                                   | NC                       | NA                       | NP                       | Remark |
|-----------------------|--------------|------------------------|-------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------|
| Radiated Emission     | §18.305 (b)  | Nominal                | Nominal                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -/-    |
| AC conducted emission | §18.307 (a)  | Nominal                | Nominal                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -/-    |

*Remark: The measurement uncertainty is not included in the test result.*

*N/A – Not Applicable!!!*

## 6. POWER LINE CONDUCTED MEASUREMENT

### 6.1. Block Diagram of Test Setup



### 6.2. Standard Applicable

According to §18.307 (b): For all other part 18 consumer devices which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

| Frequency Range (MHz) | Limits (dBμV) |          |
|-----------------------|---------------|----------|
|                       | Quasi-peak    | Average  |
| 0.15 to 0.50          | 66 to 56      | 56 to 46 |
| 0.50 to 5             | 56            | 46       |
| 5 to 30               | 60            | 50       |

\* Decreasing linearly with the logarithm of the frequency

### 6.3 Test Results

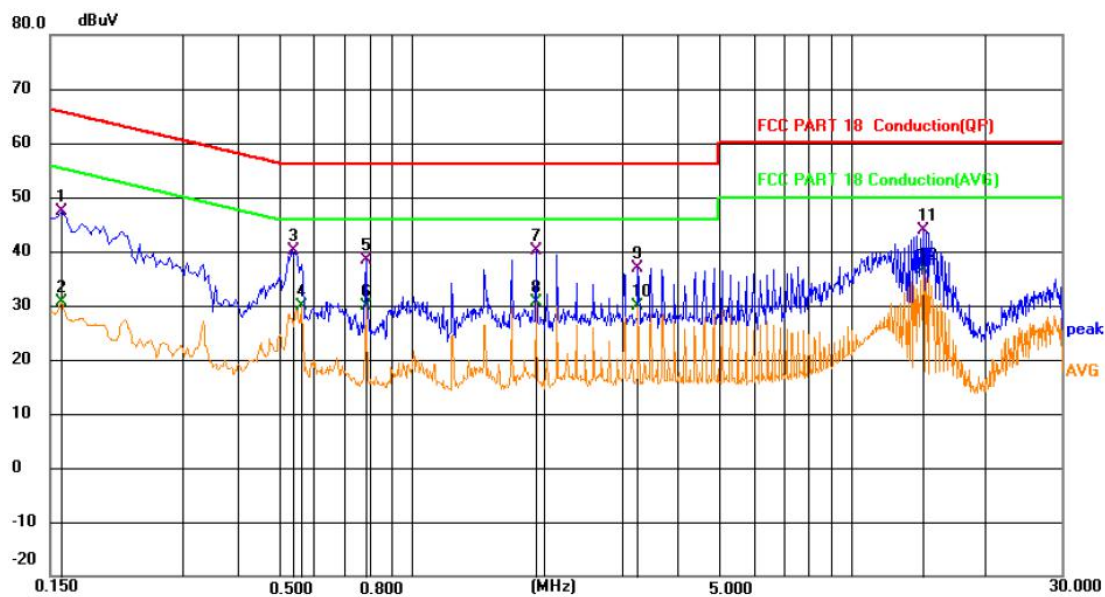
**PASS**

The test data please refer to following page.

|               |        |                |          |
|---------------|--------|----------------|----------|
| Temperature   | 22.5°C | Humidity       | 53.7%    |
| Test Engineer | Kay Hu | Configurations | Transmit |

**AC Power Line Conducted Emission (@ AC 120V/60Hz (Worst Case))**

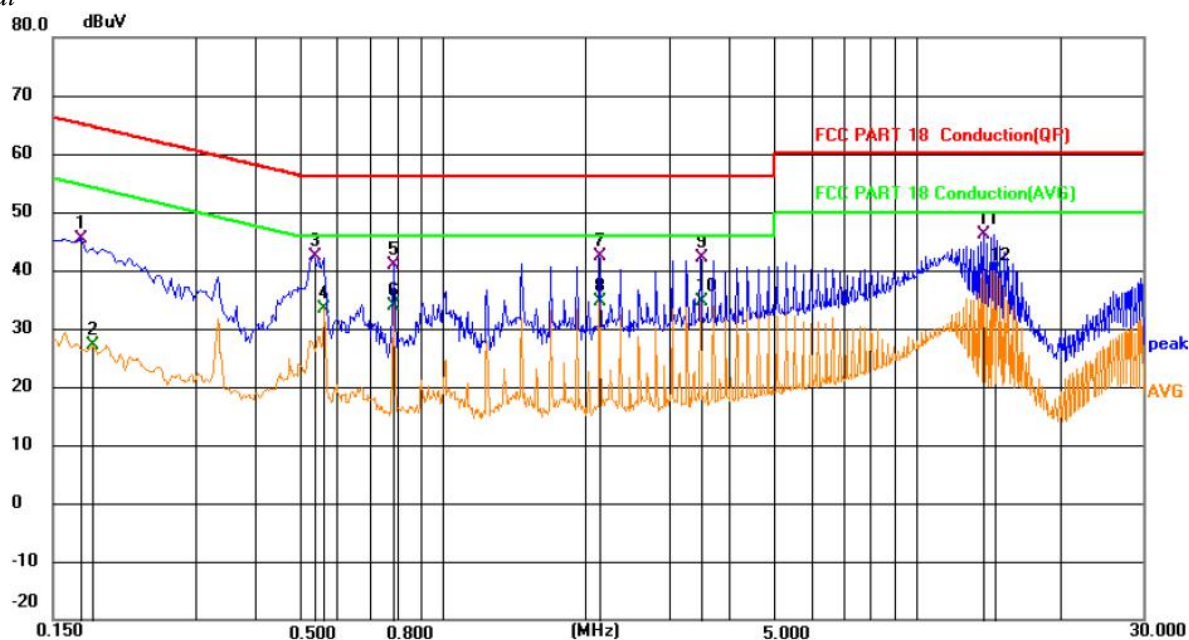
Line



| No. | Mk. | Freq.   | Reading | Correct | Measure- | Limit | Margin |          |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|
|     |     | MHz     | Level   | Factor  | ment     |       |        | Detector |
|     |     |         | dBuV    | dB      | dBuV     | dBuV  | dB     |          |
| 1   |     | 0.1590  | 27.54   | 19.76   | 47.30    | 65.52 | -18.22 | QP       |
| 2   |     | 0.1590  | 10.94   | 19.76   | 30.70    | 55.52 | -24.82 | AVG      |
| 3   |     | 0.5326  | 20.35   | 19.80   | 40.15    | 56.00 | -15.85 | QP       |
| 4   |     | 0.5596  | 10.04   | 19.80   | 29.84    | 46.00 | -16.16 | AVG      |
| 5   |     | 0.7846  | 18.48   | 19.79   | 38.27    | 56.00 | -17.73 | QP       |
| 6   |     | 0.7846  | 10.17   | 19.79   | 29.96    | 46.00 | -16.04 | AVG      |
| 7   |     | 1.9141  | 20.19   | 19.84   | 40.03    | 56.00 | -15.97 | QP       |
| 8   |     | 1.9141  | 10.70   | 19.84   | 30.54    | 46.00 | -15.46 | AVG      |
| 9   |     | 3.2686  | 17.00   | 19.88   | 36.88    | 56.00 | -19.12 | QP       |
| 10  |     | 3.2686  | 10.10   | 19.88   | 29.98    | 46.00 | -16.02 | AVG      |
| 11  |     | 14.5501 | 23.28   | 20.50   | 43.78    | 60.00 | -16.22 | QP       |
| 12  | *   | 14.5501 | 16.13   | 20.50   | 36.63    | 50.00 | -13.37 | AVG      |



Neutral



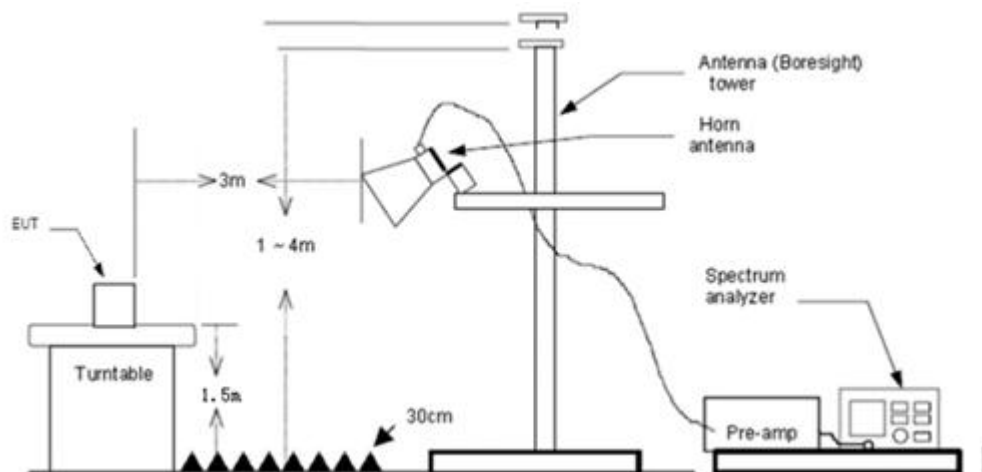
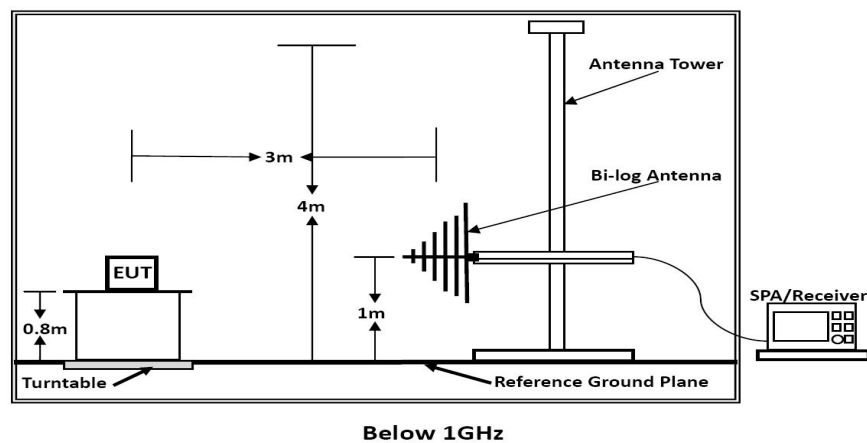
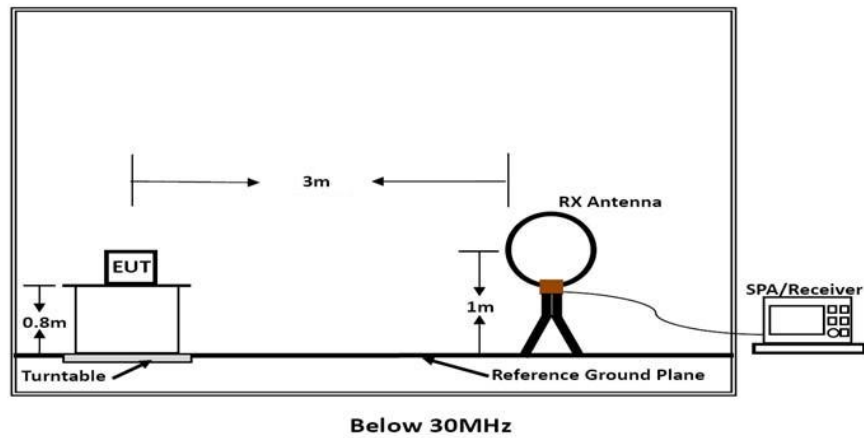
| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Margin |          |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector |
| 1   |     | 0.1726  | 25.60         | 19.76          | 45.36       | 64.83 | -19.47 | QP       |
| 2   |     | 0.1816  | 7.47          | 19.76          | 27.23       | 54.41 | -27.18 | AVG      |
| 3   |     | 0.5326  | 22.66         | 19.77          | 42.43       | 56.00 | -13.57 | QP       |
| 4   |     | 0.5596  | 13.58         | 19.78          | 33.36       | 46.00 | -12.64 | AVG      |
| 5   |     | 0.7846  | 21.05         | 19.77          | 40.82       | 56.00 | -15.18 | QP       |
| 6   |     | 0.7846  | 14.07         | 19.77          | 33.84       | 46.00 | -12.16 | AVG      |
| 7   |     | 2.1436  | 22.65         | 19.83          | 42.48       | 56.00 | -13.52 | QP       |
| 8   |     | 2.1436  | 14.70         | 19.83          | 34.53       | 46.00 | -11.47 | AVG      |
| 9   |     | 3.4981  | 22.15         | 19.87          | 42.02       | 56.00 | -13.98 | QP       |
| 10  |     | 3.4981  | 14.66         | 19.87          | 34.53       | 46.00 | -11.47 | AVG      |
| 11  |     | 13.8931 | 25.74         | 20.44          | 46.18       | 60.00 | -13.82 | QP       |
| 12  | *   | 14.5726 | 19.45         | 20.52          | 39.97       | 50.00 | -10.03 | AVG      |

\*\*\*Note: Pre-scan all modes and recorded the worst case results in this report.

Margin=Reading level + Correct - Limit

## 7. RADIATED EMISSION MEASUREMENT

### 7.1. Block Diagram of Test Setup





## 7.2. Radiated Emission Limit

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

| Frequency<br>MHz | Distance<br>Meters | Field Strengths Limit |            |
|------------------|--------------------|-----------------------|------------|
|                  |                    | dBμV/m                | Remark     |
| 0.009~30MHz      | 3                  | 103.5                 | Quasi-peak |
| 30~88            | 3                  | 40.0                  | Quasi-peak |
| 88~216           | 3                  | 43.5                  | Quasi-peak |
| 216~960          | 3                  | 46.0                  | Quasi-peak |
| 960~1000         | 3                  | 54.0                  | Quasi-peak |

Remark:

- (1) Emission level dBμV/m for 0.009~30MHz =  $20\log(25) + 40\log(300/3)$  dBμV/m;
- (2) Calculated according FCC 18.305.
- (3) The smaller limit shall apply at the cross point between two frequency bands.
- (4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 7.3. EUT Configuration on Measurement

The following equipment 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.

## 7.4. Operating Condition of EUT

- (1) Setup the EUT as shown in Section 4.1.

## 7.5. Measuring Setting

The following table is the setting of spectrum analyzer and receiver.

| Receiver Parameter     | Setting                               |
|------------------------|---------------------------------------|
| Attenuation            | Auto                                  |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP/Average |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP/Average |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 100kHz for QP      |



## 7.6. Test Procedure

### 1) Sequence of testing 9 kHz to 30 MHz

#### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

#### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

#### Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



## 2) Sequence of testing 30 MHz to 1 GHz (Not required)

### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

## 7.7. Test Results

PASS.

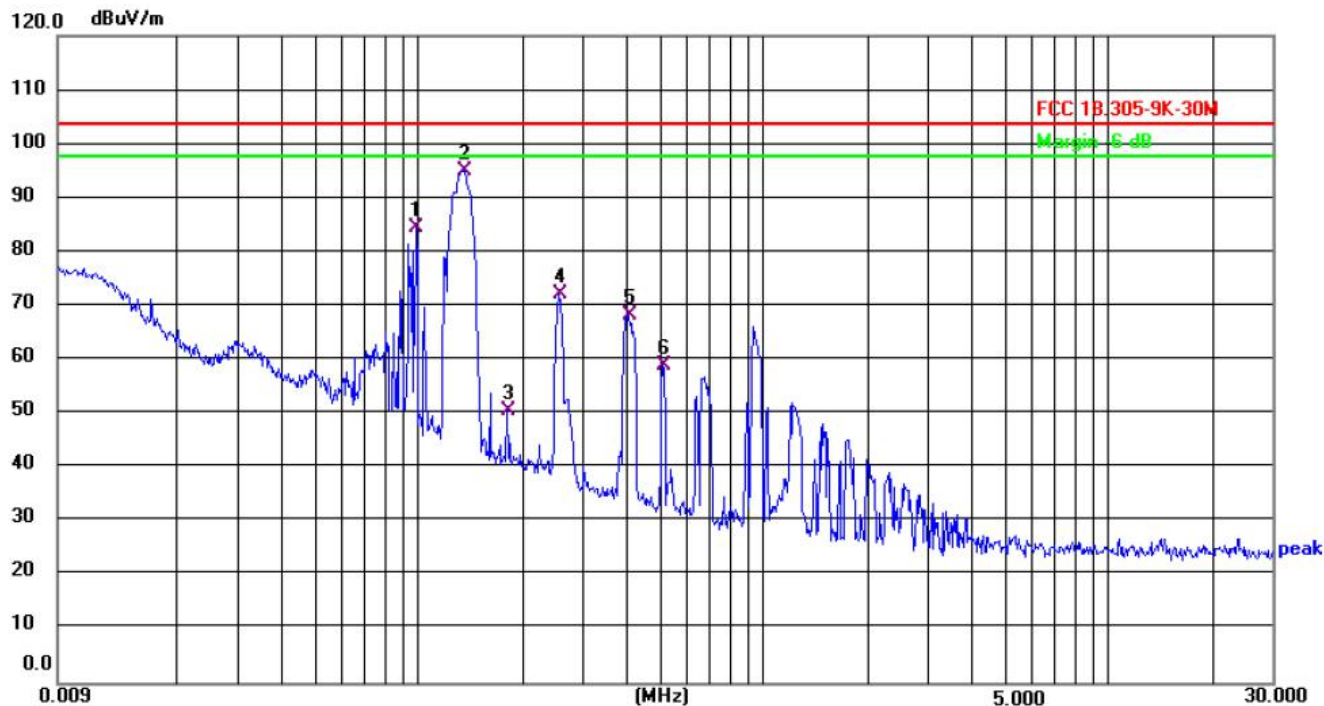
*Only report the worst test data (Mode 1) in test report;*

*The test data please refer to following page:*

|               |        |                |          |
|---------------|--------|----------------|----------|
| Temperature   | 23.6°C | Humidity       | 52.2%    |
| Test Engineer | Kay Hu | Configurations | Transmit |

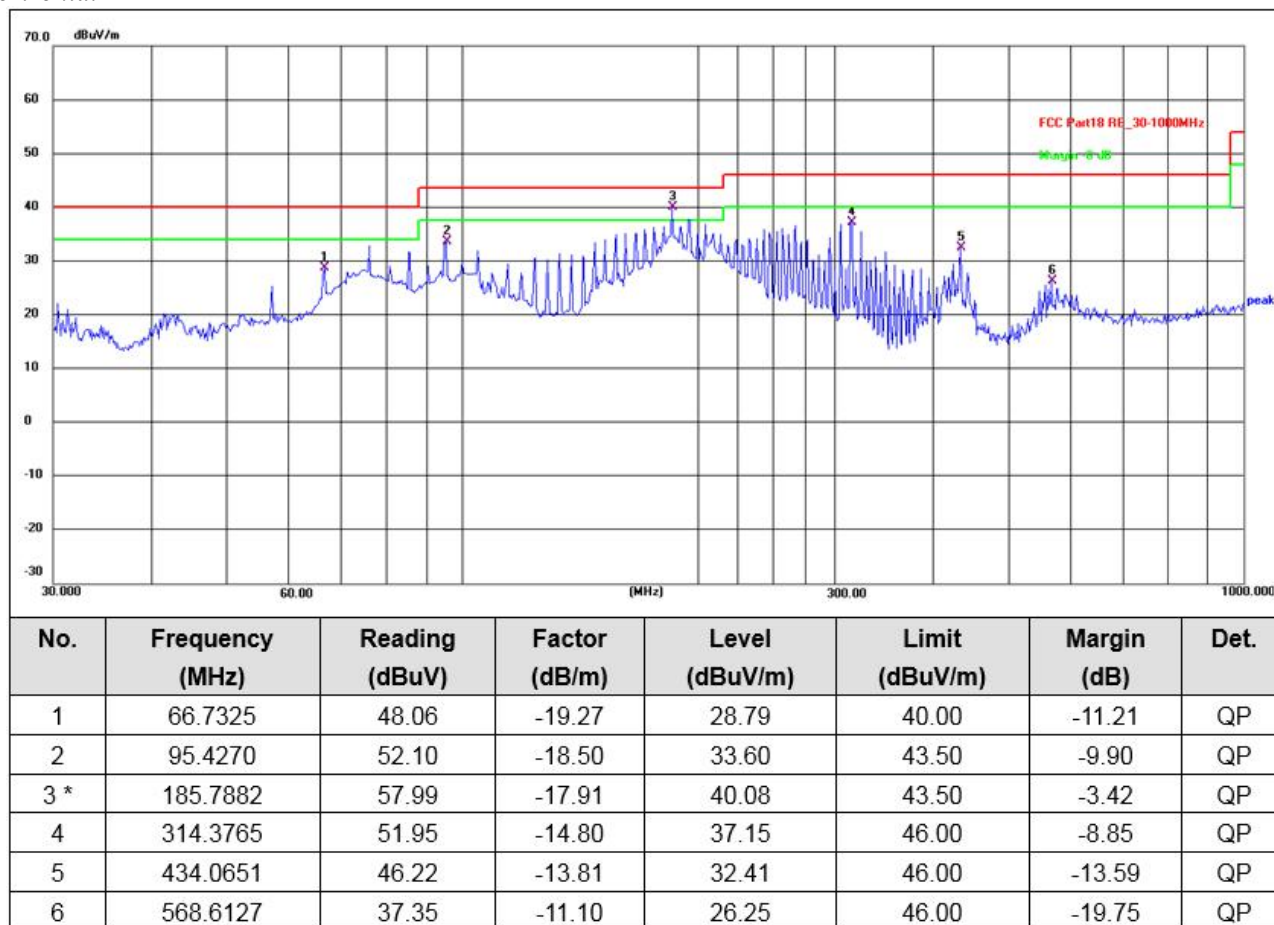


0.009 MHz – 30 MHz



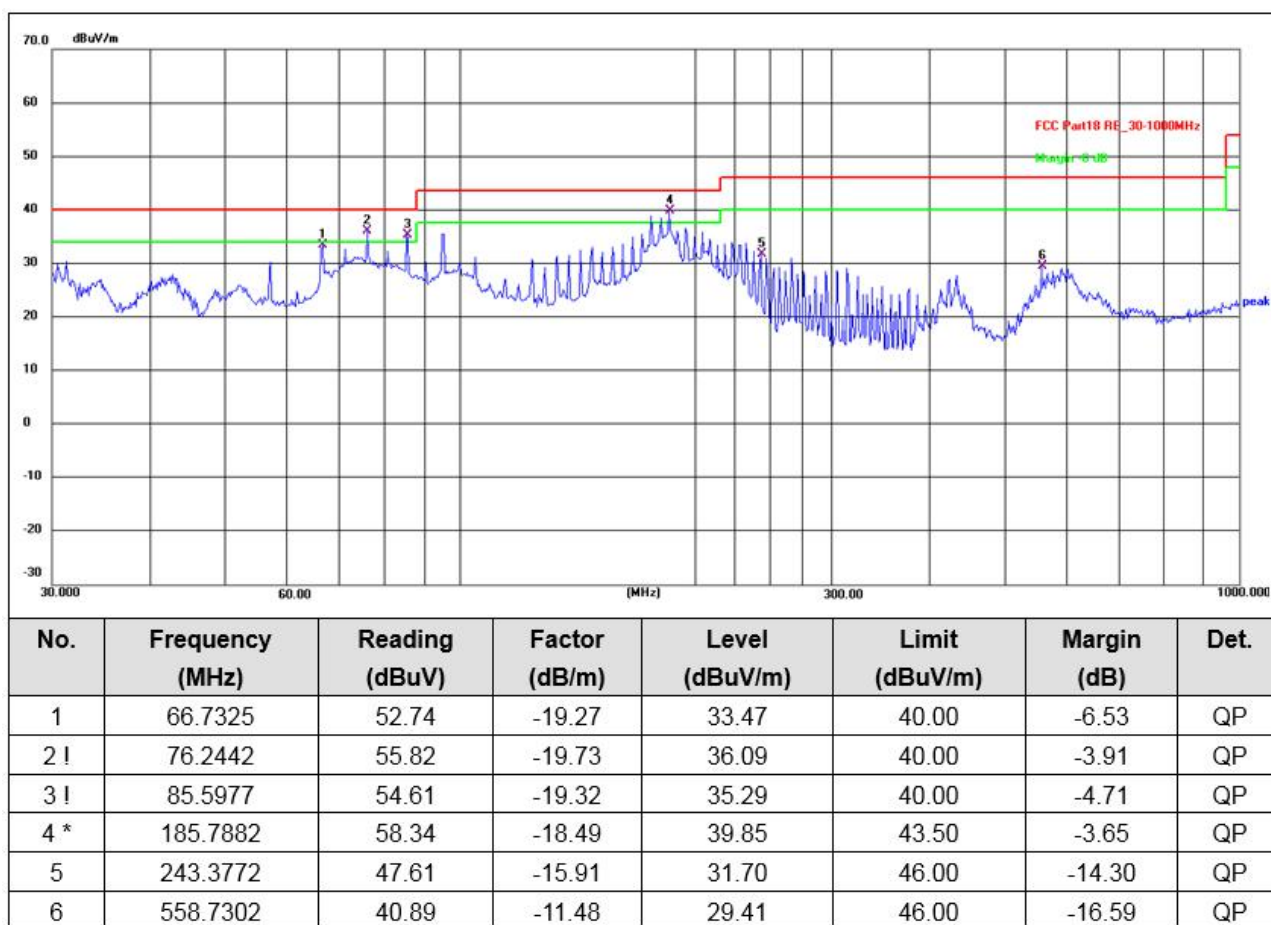
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 0.0985          | 94.02          | -9.46         | 84.56          | 103.50         | -18.94      | QP       |
| 2   | 0.1352          | 104.50         | -9.50         | 95.00          | 103.50         | -8.50       | QP       |
| 3   | 0.1810          | 60.03          | -9.50         | 50.53          | 103.50         | -52.97      | QP       |
| 4   | 0.2566          | 81.11          | -8.98         | 72.13          | 103.50         | -31.37      | QP       |
| 5   | 0.4074          | 76.81          | -8.70         | 68.11          | 103.50         | -35.39      | QP       |
| 6   | 0.5113          | 67.51          | -8.51         | 59.00          | 103.50         | -44.50      | QP       |

Remark: Measured at antenna position 0 degree and 90 degree, recorded worst case at 90 degree.  
Margin=Reading level + Factor- Limit.

**Below 1GHz****Horizontal**



## Vertical



1). Emission level (dBuV/m) = 20 log Emission level (uV/m).

2). Margin=Reading level + Factor- Limit



## **8. PHOTOGRAPHS OF TEST SETUP**

Please refer to separated files for Test Setup Photos of the EUT.

## **9. EXTERNAL PHOTOGRAPHS OF THE EUT**

Please refer to separated files for External Photos of the EUT.

## **10. INTERNAL PHOTOGRAPHS OF THE EUT**

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----