

## FCC TEST REPORT

For

CJ Global Inc.

Wireless Car Charger

Test Model: 53816-DI

Prepared for : CJ Global Inc.  
Address : 20-21 Wagaraw Road Bldg 30 Fair Lawn, New Jersey, New Jersey, 07410, United States

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park  
Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel : (+86)755-82591330  
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Web : www.LCS-cert.com  
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : June 11, 2021  
Number of tested samples : 1  
Serial number : Prototype  
Date of Test : June 11, 2021 ~ June 23, 2021  
Date of Report : June 28, 2021

**FCC TEST REPORT  
FCC CFR 47 PART 18**

**Report Reference No.** ..... : **LCS210610038AEA**

**Date Of Issue** ..... : June 28, 2021

**Testing Laboratory Name** ..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

**Address** ..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park  
Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,  
518000, China

**Testing Location/ Procedure**..... : Full application of Harmonised standards ■  
Partial application of Harmonised standards □  
Other standard testing method □

**Applicant's Name** ..... : **CJ Global Inc.**

**Address** ..... : 20-21 Wagaraw Road Bldg 30 Fair Lawn, New Jersey, New  
Jersey, 07140, United States

**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 Car Charger**

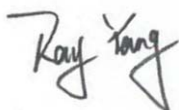
**Trade Mark** ..... : CJ TECH

**Test Model** ..... : 53816-DI

**Power Supply** ..... : Input: 5V==2A, 9V==1.67A  
Output: 10W(Compatible with 5 or 7.5W)

**Result** ..... : **Positive**

**Compiled by:**



Ray Yang / Administrators

**Supervised by:**



Jin Wang/ Technique principal

**Approved by:**



Gavin Liang/ Manager

## FCC TEST REPORT

|   |                                       |
|---|---------------------------------------|
| <b>Test Report No. :</b> <b>LCS210610038AEA</b> | <u>June 28, 2021</u><br>Date of issue |
|---|---------------------------------------|

|                          |  |
|--------------------------|--|
| Test Model.....          | : 53816-DI   |
| EUT.....                 | : Wireless Car Charger   |
| <b>Applicant.....</b>    | <b>: CJ Global Inc.</b>  |
| Address.....             | : 20-21 Wagaraw Road Bldg 30 Fair Lawn, New Jersey, New Jersey, 07140, United States |
| Telephone.....           | : /  |
| Fax.....                 | : /  |
| <b>Manufacturer.....</b> | <b>: CJ Global Inc.</b>  |
| Address.....             | : 20-21 Wagaraw Road Bldg 30 Fair Lawn, New Jersey, New Jersey, 07140, United States |
| Telephone.....           | : /  |
| Fax.....                 | : /  |
| <b>Factory.....</b>      | <b>: /</b>   |
| Address.....             | : /  |
| 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    | Revisions     | Revised By  |
|----------|---------------|---------------|-------------|
| 000      | June 28, 2021 | Initial Issue | Gavin Liang |
|          |               |               |             |
|          |               |               |             |

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### 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 + EUT + Mobile Phone (Battery Status: <1%)  | Record     |
| Mode 2  | AC/DC Adapter + EUT + Mobile Phone (Battery Status: <50%) | Pre-tested |
| Mode 3  | AC/DC Adapter + EUT + Mobile Phone (Battery Status: 100%) | Pre-tested |
| Note: All test modes were pre-tested, but we only recorded the worst case in this report. |   |            |

For AC conducted emission, pre-test at both AC 120V/60Hz and AC 240V/50Hz, recorded worst case;

For AC conducted emission, pre-test at both AC charge from power adapter, recorded worst case.

## 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      | 2020-06-17 | 2021-06-16 |
| 2    | SPECTRUM ANALYZER        | R&S            | FSP40        | 100503          | 2020-11-17 | 2021-11-16 |
| 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        | Farad          | EZ           | /               | 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           | 2018-07-26 | 2021-07-25 |
| 8    | By-log Antenna           | SCHWARZBECK    | VULB9163     | 9163-470        | 2018-07-26 | 2021-07-25 |
| 9    | Horn Antenna             | SCHWARZBECK    | BBHA 9120D   | 9120D-1925      | 2018-07-02 | 2021-07-01 |
| 10   | RF Cable-R03m            | Jye Bao        | RG142        | CB021           | 2021-06-21 | 2022-06-20 |
| 11   | RF Cable-HIGH            | SUHNER         | SUCOFLEX 106 | 03CH03-HY       | 2021-06-21 | 2022-06-20 |
| 12   | EMI Test Receiver        | R&S            | ESPI         | 101840          | 2021-06-21 | 2022-06-20 |
| 13   | Artificial Mains         | R&S            | ENV216       | 101288          | 2021-06-21 | 2022-06-20 |
| 14   | 10dB Attenuator          | SCHWARZBECK    | MTS-IMP-136  | 261115-001-0032 | 2021-06-21 | 2022-06-20 |
| 15   | Exposure Level Tester    | Narda          | ELT-400      | N-0713          | 2021-06-21 | 2022-06-20 |
| 16   | B-Field Probe            | Narda          | ELT-400      | M-1154          | 2021-06-21 | 2022-06-20 |
| 17   | EMI Test Software        | AUDIX          | E3           | /               | N/A        | N/A        |

## 5. SUMMARY OF TEST RESULT

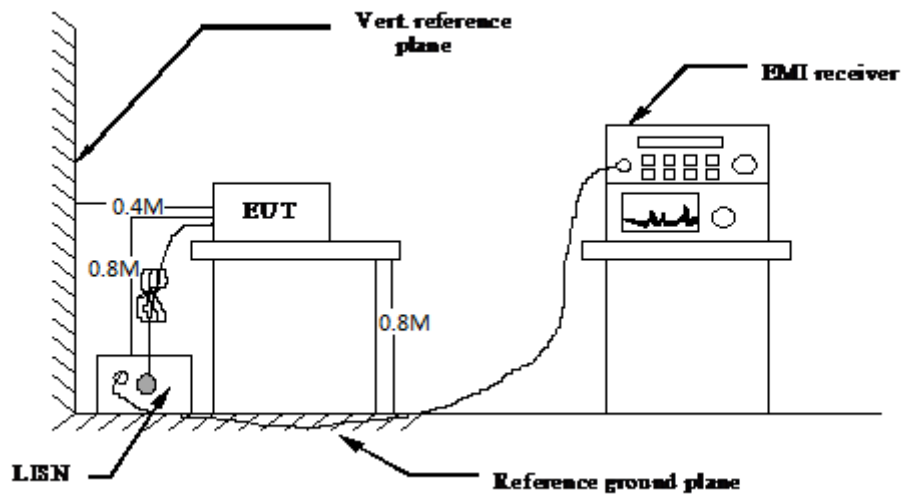
| Test Item             | FCC Rule No. | Temperature conditions | Power source conditions | C                                   | NC                       | NA                       | NP                       | Remark |
|-----------------------|--------------|------------------------|-------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------|
| 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 (dB $\mu$ V) |          |
|-----------------------|---------------------|----------|
|                       | 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

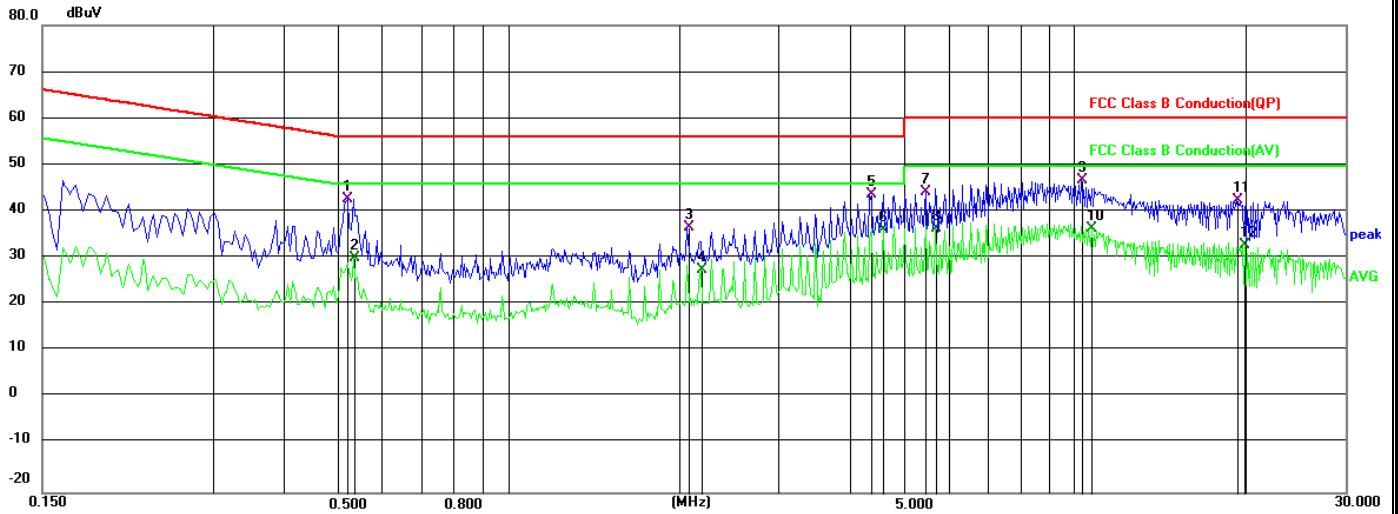
**PASS**

The test data please refer to following page.

|               |         |                |          |
|---------------|---------|----------------|----------|
| Temperature   | 23.3°C  | Humidity       | 53.7%    |
| Test Engineer | Carl Fu | Configurations | Transmit |

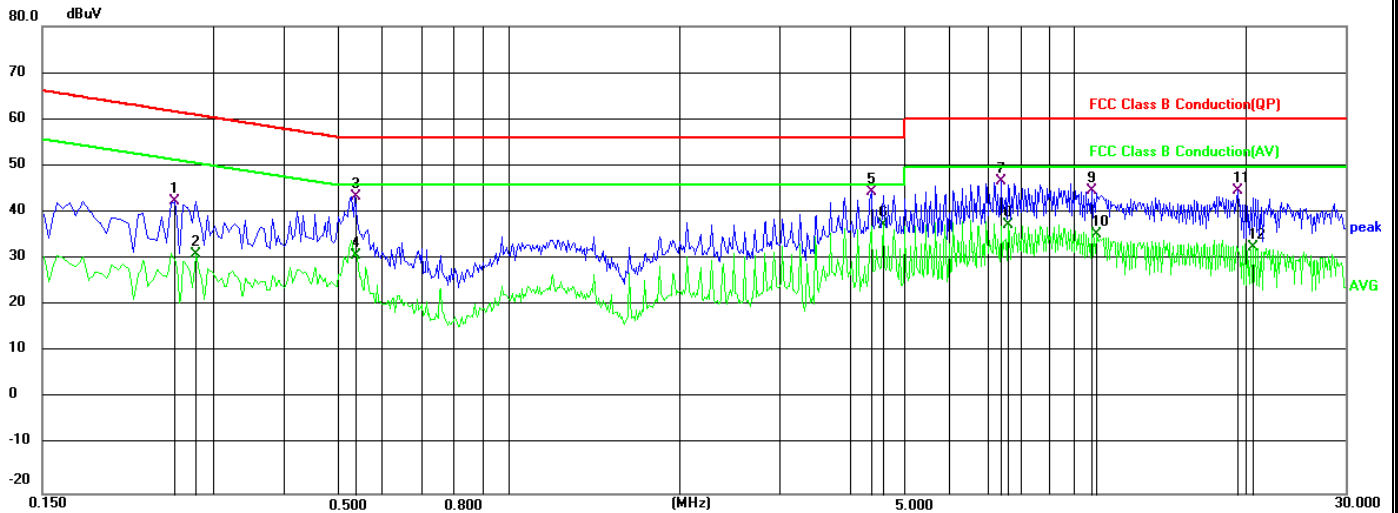
**AC Power Line Conducted Emission (Power input to Adapter @ AC 120V/60Hz (Worst Case))**

Line



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1   | 0.5191          | 31.39          | 11.52        | 42.91         | 56.00        | -13.09      | QP     |
| 2   | 0.5325          | 18.74          | 11.52        | 30.26         | 46.00        | -15.74      | AVG    |
| 3   | 2.0715          | 24.40          | 12.40        | 36.80         | 56.00        | -19.20      | QP     |
| 4   | 2.1795          | 15.27          | 12.41        | 27.68         | 46.00        | -18.32      | AVG    |
| 5   | 4.3576          | 31.38          | 12.39        | 43.77         | 56.00        | -12.23      | QP     |
| 6   | 4.5781          | 23.84          | 12.37        | 36.21         | 46.00        | -9.79       | AVG    |
| 7   | 5.4511          | 32.10          | 12.28        | 44.38         | 60.00        | -15.62      | QP     |
| 8   | 5.6716          | 24.24          | 12.25        | 36.49         | 50.00        | -13.51      | AVG    |
| 9   | 10.2526         | 34.31          | 12.64        | 46.95         | 60.00        | -13.05      | QP     |
| 10  | 10.6981         | 23.91          | 12.73        | 36.64         | 50.00        | -13.36      | AVG    |
| 11  | 19.3111         | 29.54          | 13.16        | 42.70         | 60.00        | -17.30      | QP     |
| 12  | 19.9816         | 19.87          | 13.12        | 32.99         | 50.00        | -17.01      | AVG    |

Neutral

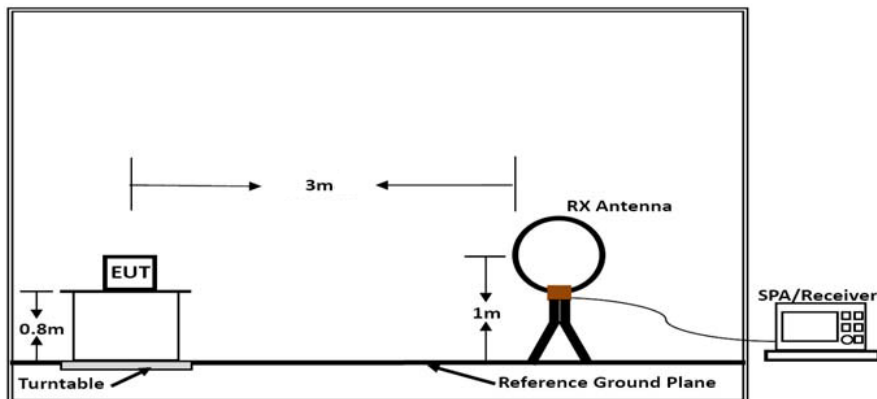


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1   | 0.2581          | 30.97          | 11.52        | 42.49         | 61.49        | -19.00      | QP     |
| 2   | 0.2806          | 19.64          | 11.52        | 31.16         | 50.80        | -19.64      | AVG    |
| 3   | 0.5371          | 32.19          | 11.52        | 43.71         | 56.00        | -12.29      | QP     |
| 4   | 0.5378          | 19.50          | 11.52        | 31.02         | 46.00        | -14.98      | AVG    |
| 5   | 4.3621          | 32.17          | 12.39        | 44.56         | 56.00        | -11.44      | QP     |
| 6   | 4.5825          | 25.16          | 12.37        | 37.53         | 46.00        | -8.47       | AVG    |
| 7   | 7.4176          | 34.54          | 12.31        | 46.85         | 60.00        | -13.15      | QP     |
| 8   | 7.6426          | 25.18          | 12.32        | 37.50         | 50.00        | -12.50      | AVG    |
| 9   | 10.7026         | 32.11          | 12.73        | 44.84         | 60.00        | -15.16      | QP     |
| 10  | 10.9186         | 22.76          | 12.78        | 35.54         | 50.00        | -14.46      | AVG    |
| 11  | 19.3381         | 31.73          | 13.16        | 44.89         | 60.00        | -15.11      | QP     |
| 12  | 20.6431         | 19.62          | 13.16        | 32.78         | 50.00        | -17.22      | AVG    |

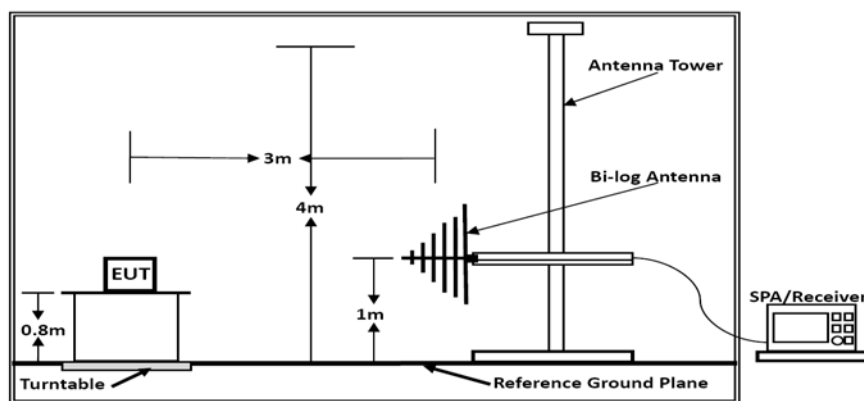
\*\*\*Note: Pre-scan all modes and recorded the worst case results in this report.

## 7. RADIATED EMISSION MEASUREMENT

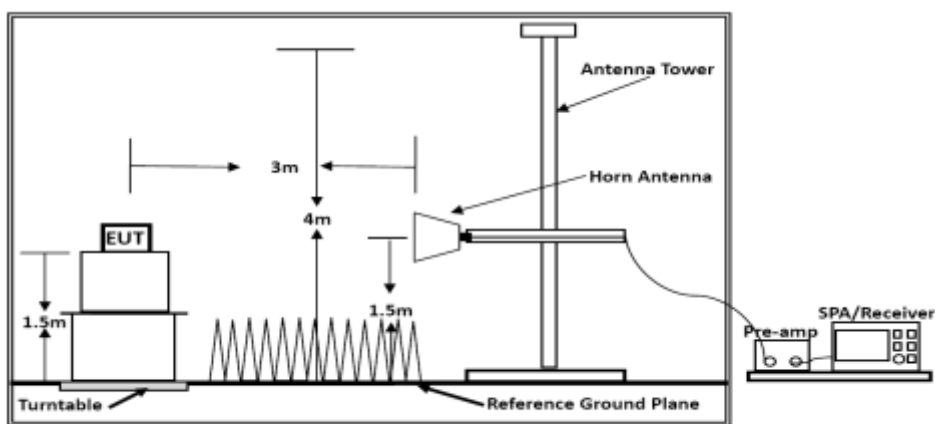
### 7.1. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 1GHz

### 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 |            |
|------------------|--------------------|-----------------------|------------|
|                  |                    | dB $\mu$ V/m          | Remark     |
| 0.009~30MHz      | 3                  | 103.5                 | Quasi-peak |

Remark:

- (1) Emission level dB $\mu$ V/m for 0.009~30MHz = 20log (15) + 40log (300/3) dB $\mu$ V/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.
- (2) Let the EUT work in worst test mode (Mode 1) and measure it.

### 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**

**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**

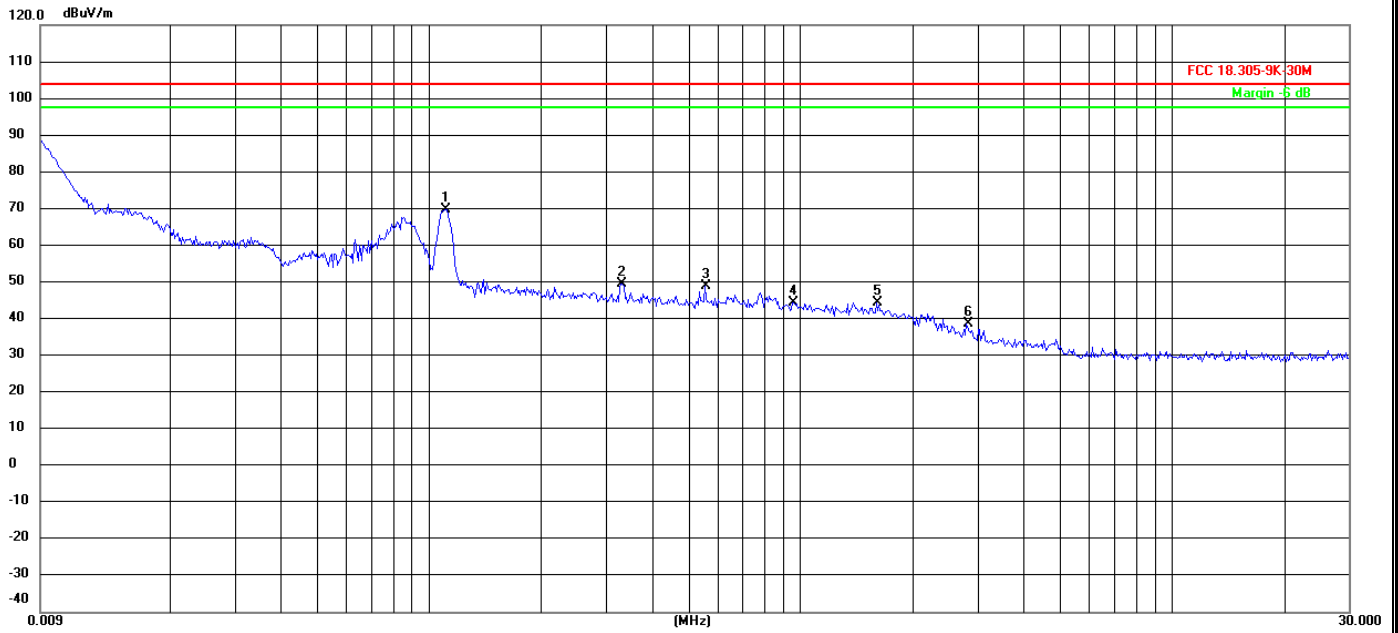
PASS.

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

*The test data please refer to following page:*

|               |         |                |          |
|---------------|---------|----------------|----------|
| Temperature   | 23.5°C  | Humidity       | 53.7%    |
| Test Engineer | Carl Fu | Configurations | Transmit |

0.009 MHz – 30 MHz



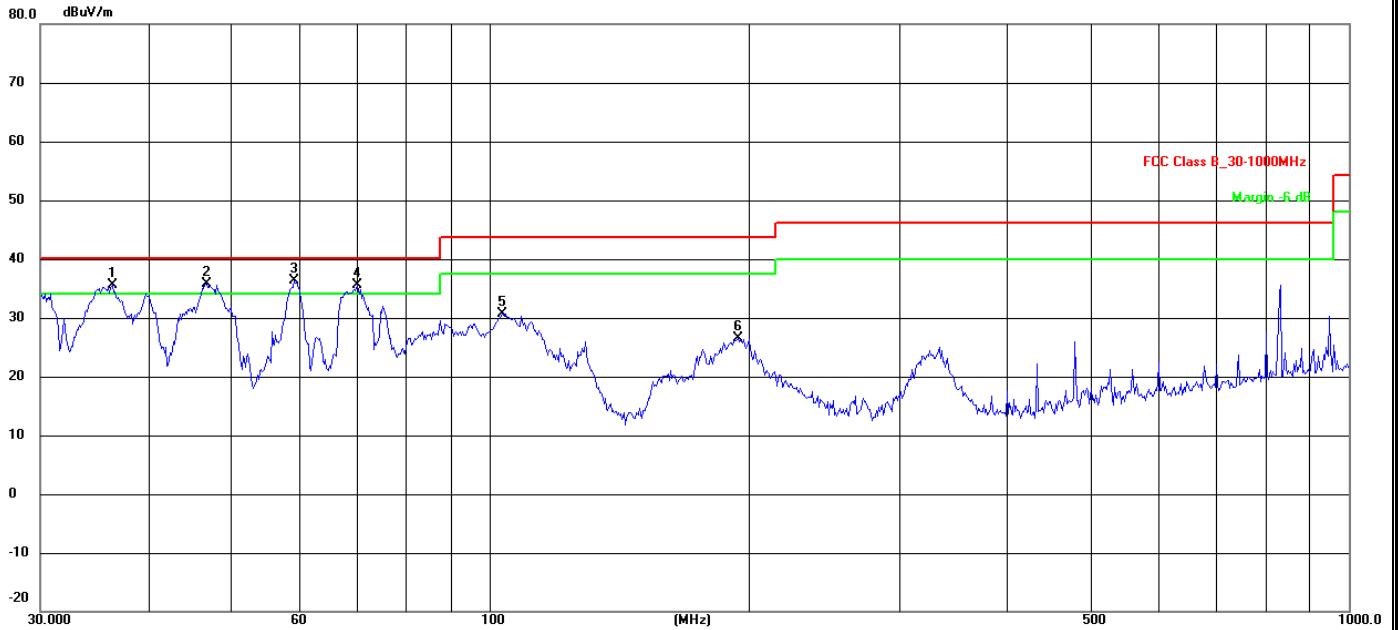
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1 * | 0.1104          | 49.00          | 20.72         | 69.72          | 103.50         | -33.78      | QP   |
| 2   | 0.3326          | 29.09          | 20.50         | 49.59          | 103.50         | -53.91      | QP   |
| 3   | 0.5545          | 28.34          | 20.50         | 48.84          | 103.50         | -54.66      | QP   |
| 4   | 0.9548          | 23.94          | 20.53         | 44.47          | 103.50         | -59.03      | QP   |
| 5   | 1.6046          | 23.87          | 20.50         | 44.37          | 103.50         | -59.13      | QP   |
| 6   | 2.8083          | 18.17          | 20.49         | 38.66          | 103.50         | -64.84      | QP   |

Remark: Measured at antenna position 0 degree and 90 degree, recorded worst case at 0 degree.

|               |         |                |          |
|---------------|---------|----------------|----------|
| Temperature   | 23.5°C  | Humidity       | 53.7%    |
| Test Engineer | Carl Fu | Configurations | Transmit |

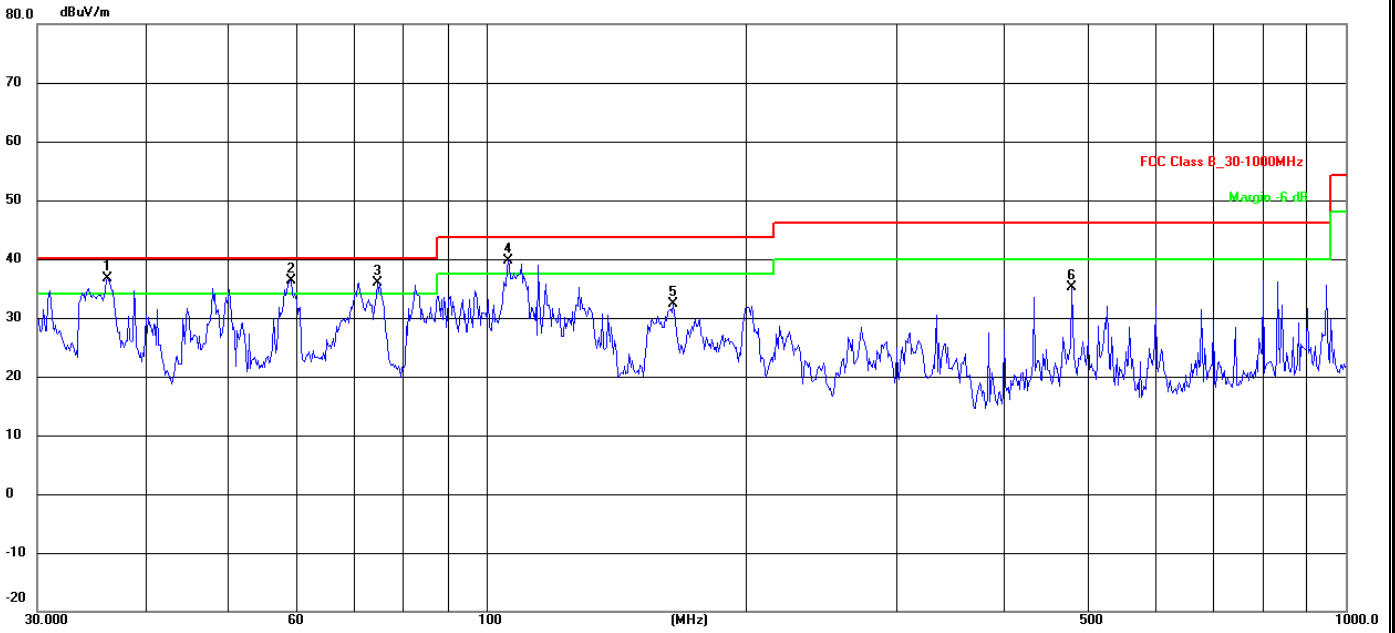
**Below 1GHz**

*Horizontal*



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1 ! | 36.3813         | 58.61          | -22.95        | 35.66          | 40.00          | -4.34       | QP   |
| 2 ! | 46.8301         | 56.55          | -20.78        | 35.77          | 40.00          | -4.23       | QP   |
| 3 * | 59.2323         | 58.11          | -21.88        | 36.23          | 40.00          | -3.77       | QP   |
| 4 ! | 70.0901         | 59.24          | -23.70        | 35.54          | 40.00          | -4.46       | QP   |
| 5   | 103.4419        | 50.03          | -19.30        | 30.73          | 43.50          | -12.77      | QP   |
| 6   | 194.4533        | 49.62          | -23.11        | 26.51          | 43.50          | -16.99      | QP   |

Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1 * | 36.2539         | 59.74          | -22.99        | 36.75          | 40.00          | -3.25       | QP   |
| 2 ! | 59.2323         | 58.21          | -21.88        | 36.33          | 40.00          | -3.67       | QP   |
| 3 ! | 74.6568         | 60.16          | -24.13        | 36.03          | 40.00          | -3.97       | QP   |
| 4 ! | 106.0126        | 59.18          | -19.38        | 39.80          | 43.50          | -3.70       | QP   |
| 5   | 164.9073        | 57.11          | -24.73        | 32.38          | 43.50          | -11.12      | QP   |
| 6   | 480.5276        | 53.13          | -17.87        | 35.26          | 46.00          | -10.74      | QP   |

Note: Level = Reading + Factor .  
 Margin = Level – 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-----