



# FCC TEST REPORT

## FCC ID:2A59P-KP-MS15

**Report Number**..... : ZKT-221028260E

**Date of Test**..... Nov. 10, 2022 to Nov. 16, 2022

**Date of issue**..... : Nov. 16, 2022

**Total number of pages**..... 20

**Test Result** ..... : PASS

**Testing Laboratory**..... : Shenzhen ZKT Technology Co., Ltd.

**Address** ..... : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

**Applicant's name** ..... : Shenzhen Huani electronics Co.,Ltd

**Address** ..... : 3rd Floor, Building B, Jinkaijin Industrial Zone, Shilongzai, Shiyao, Bao'an, Shenzhen, GD, CN,518108

**Manufacturer's name** ..... : Shenzhen Huani electronics Co.,Ltd

**Address** ..... : 3rd Floor, Building B, Jinkaijin Industrial Zone, Shilongzai, Shiyao, Bao'an, Shenzhen, GD, CN,518108

### Test specification:

**Standard**..... : FCC CFR Title 47 Part 15 Subpart C

**Test procedure**..... : /

**Non-standard test method** ..... : N/A

**Test Report Form No**..... : TRF-EL-107\_V0

**Test Report Form(s) Originator**..... : ZKT Testing

**Master TRF** ..... : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Product name**..... : CAR CHARGER

**Trademark** ..... : Koo-Power

**Model/Type reference**..... : KP-MS15

**Ratings**..... : Input: DC 5V 2A DC 9V 2A

Wireless Output: 15W Max



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community  
Industrial Avenue, Fuhai Street, Bao'an District,  
Shenzhen, China

Tested by (name + signature).....: Tom Zou

Tom Zou

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Jackson Fang

Approved (name + signature).....: Lake Xie





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## 1. VERSION

| Report No.     | Version | Description             | Approved      |
|----------------|---------|-------------------------|---------------|
| ZKT-221028260E | Rev.01  | Initial issue of report | Nov. 16, 2022 |
|                |         |                         |               |
|                |         |                         |               |



## 2. TEST SUMMARY

| Test Item                        | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement              | 15.203            | Pass   |
| AC Power Line Conducted Emission | 15.207            | N/A    |
| Spurious Emission                | 15.209(a)(f)      | Pass   |
| 20dB Bandwidth                   | 15.215            | Pass   |

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report



## 2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.  
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street,  
Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225  
Designation Number: CN1299  
IC Registered No.: 27033

## 2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

| No. | Item                                              | Uncertainty |
|-----|---------------------------------------------------|-------------|
| 1   | 3m chamber Radiated spurious emission(9KHz-30MHz) | U=4.5dB     |
| 2   | 3m chamber Radiated spurious emission(30MHz-1GHz) | U=4.8dB     |
| 3   | 3m chamber Radiated spurious emission(1GHz-6GHz)  | U=4.9dB     |
| 4   | 3m chamber Radiated spurious emission(6GHz-40GHz) | U=5.0dB     |
| 5   | Conducted disturbance                             | U=3.2dB     |
| 6   | RF Band Edge                                      | U=1.68dB    |
| 7   | RF power conducted                                | U=1.86dB    |
| 8   | RF conducted Spurious Emission                    | U=2.2dB     |
| 9   | RF Occupied Bandwidth                             | U=1.8dB     |
| 10  | RF Power Spectral Density                         | U=1.75dB    |
| 11  | humidity uncertainty                              | U=5.3%      |
| 12  | Temperature uncertainty                           | U=0.59℃     |



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                      |                                                      |
|----------------------|------------------------------------------------------|
| Product Name:        | CAR CHARGER                                          |
| Model No.:           | KP-MS15                                              |
| Model Difference:    | N/A                                                  |
| Serial No.:          | N/A                                                  |
| Hardware version:    | H1.0                                                 |
| Software version:    | S1.0                                                 |
| Operation Frequency: | 115kHz ~ 205KHz                                      |
| Modulation type:     | MSK                                                  |
| Antenna Type:        | Inductive loop coil Antenna                          |
| Antenna gain:        | 0dBi                                                 |
| Power supply:        | Input: DC 5V 2A DC 9V 2A<br>Wireless Output: 15W Max |

#### 3.2 Test mode

| Test Modes:                                                                               |                                         |        |
|-------------------------------------------------------------------------------------------|-----------------------------------------|--------|
| Mode 1                                                                                    | DC Adapter (5V/2A) + EUT + Phone (5W)   |        |
| Mode 2                                                                                    | DC Adapter (9V/2A) + EUT + Phone (15W)  | Record |
| Mode 3                                                                                    | DC Adapter (9V/2A) + EUT + Phone (10W)  |        |
| Mode 4                                                                                    | DC Adapter (9V/2A) + EUT + Phone (7.5W) |        |
| Mode 5                                                                                    | DC Adapter (9V/2A) + EUT + Phone (5W)   |        |
| Note: All test modes were pre-tested, but we only recorded the worst case in this report. |                                         |        |



### 3.3 Block Diagram of EUT Configuration

#### Conducted Emission

N/A

#### Radiated Emission



### 3.4 Test Conditions

Temperature: 23~26℃

Relative Humidity: 54~63 %

### 3.5 Description Of Support Units (Conducted Mode)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment   | Mfr/Brand | Model/Type No. | Series No. | Note      |
|------|-------------|-----------|----------------|------------|-----------|
| E1   | CAR CHARGER | Koo-Power | KP-MS15        | N/A        | EUT       |
| E2   | DC CHARGER  | N/A       | N/A            | N/A        | EUT       |
| A1   | Phone       | XIAOMI    | DL01           | N/A        | Auxiliary |
| A2   | DC Battery  | N/A       | DL02           | N/A        | Auxiliary |

| Item | Shielded Type | Ferrite Core | Length | Note                |
|------|---------------|--------------|--------|---------------------|
| C1   | NO            | NO           | 1.0M   | DC cable unshielded |
|      |               |              |        |                     |
|      |               |              |        |                     |

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



### 3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

#### Radiation Test equipment

| Item | Equipment                        | Manufacturer   | Type No.        | Serial No.         | Last calibration | Calibrated until |
|------|----------------------------------|----------------|-----------------|--------------------|------------------|------------------|
| 1    | Spectrum Analyzer (9kHz-26.5GHz) | KEYSIGHT       | 9020A           | MY55370835         | Oct. 18,2022     | Oct. 17,2023     |
| 2    | Spectrum Analyzer (1GHz-40GHz)   | R&S            | FSQ             | 100363             | Oct. 17,2022     | Oct. 16, 2023    |
| 3    | EMI Test Receiver (9kHz-7GHz)    | R&S            | ESCI7           | 101169             | Oct. 18,2022     | Oct. 17, 2023    |
| 4    | Bilog Antenna (30MHz-1500MHz)    | Schwarzbeck    | VULB9168        | N/A                | Oct. 17,2022     | Oct. 16, 2023    |
| 5    | Horn Antenna (1GHz-18GHz)        | Agilent        | AH-118          | 071145             | Oct. 17,2022     | Oct. 16, 2023    |
| 6    | Loop Antenna                     | TESEQ          | HLA6121         | 58357              | Oct. 17,2022     | Oct. 16, 2023    |
| 7    | Amplifier (30-1000MHz)           | EM Electronics | EM330 Amplifier | 060747             | Oct. 18,2022     | Oct. 17, 2023    |
| 8    | Amplifier (1GHz-26.5GHz)         | Agilent        | 8449B           | 3008A00315         | Oct. 18,2022     | Oct. 17, 2023    |
| 9    | RF cables1 (9kHz-30MHz)          | N/A            | 9kHz-30MHz      | N/A                | Oct. 18,2022     | Oct. 17, 2023    |
| 10   | RF cables2 (30MHz-1GHz)          | N/A            | 30MHz-1GHz      | N/A                | Oct. 18,2022     | Oct. 17, 2023    |
| 11   | RF cables3 (1GHz-40GHz)          | N/A            | 1GHz-40GHz      | N/A                | Oct. 18,2022     | Oct. 17, 2023    |
| 12   | ESG Signal Generator             | Agilent        | E4421B          | N/A                | Oct. 22,2022     | Oct. 21, 2023    |
| 13   | Signal Generator                 | Agilent        | N5182A          | N/A                | Oct. 22,2022     | Oct. 21, 2023    |
| 14   | Magnetic Field Probe Tester      | Narda          | ELT-400         | 0-0344             | Oct. 17,2022     | Oct. 16, 2023    |
| 15   | MWRF Power Meter Test system     | MW             | MW100-RP CB     | N/A                | Oct. 22,2022     | Oct. 21, 2023    |
| 16   | D.C. Power Supply                | LongWei        | TPR-6405D       | N/A                | \                | \                |
| 17   | EMC Software                     | Frad           | EZ-EMC          | Ver.EMC-C ON 3A1.1 | \                | \                |
| 18   | RF Software                      | MW             | MTS8310         | V2.0.0.0           | \                | \                |
| 19   | Turntable                        | MF             | MF-7802BS       | N/A                | \                | \                |
| 20   | Antenna tower                    | MF             | MF-7802BS       | N/A                | \                | \                |



#### Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No.         | Last calibration | Calibrated until |
|------|-------------------|--------------|----------|--------------------|------------------|------------------|
| 1    | LISN              | R&S          | ENV216   | 101471             | Oct. 22, 2022    | Oct. 21, 2023    |
| 2    | LISN              | CYBERTEK     | EM5040A  | E1850400149        | Oct. 22, 2022    | Oct. 21, 2023    |
| 3    | Test Cable        | N/A          | C01      | N/A                | Oct. 18, 2022    | Oct. 17, 2023    |
| 4    | Test Cable        | N/A          | C02      | N/A                | Oct. 18, 2022    | Oct. 17, 2023    |
| 5    | EMI Test Receiver | R&S          | ESCI3    | 101393             | Oct. 17, 2022    | Oct. 16, 2023    |
| 6    | EMC Software      | Frad         | EZ-EMC   | Ver.EMC-CO N 3A1.1 | \                | \                |

## 4. CONDUCTED EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

|                       |                                      |
|-----------------------|--------------------------------------|
| Test Requirement:     | FCC Part15 C Section 15.207          |
| Test Method:          | ANSI C63.10:2013                     |
| Test Frequency Range: | 150KHz to 30MHz                      |
| Receiver setup:       | RBW=9KHz, VBW=30KHz, Sweep time=auto |

#### 4.1.1 POWER LINE CONDUCTED EMISSION Limits

| FREQUENCY (MHz) | Limit (dBuV) |           | Standard |
|-----------------|--------------|-----------|----------|
|                 | Quas-peak    | Average   |          |
| 0.15 -0.5       | 66 - 56 *    | 56 - 46 * | FCC      |
| 0.50 -5.0       | 56.00        | 46.00     | FCC      |
| 5.0 -30.0       | 60.00        | 50.00     | FCC      |

Note:

(1) \*Decreases with the logarithm of the frequency.

#### 4.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

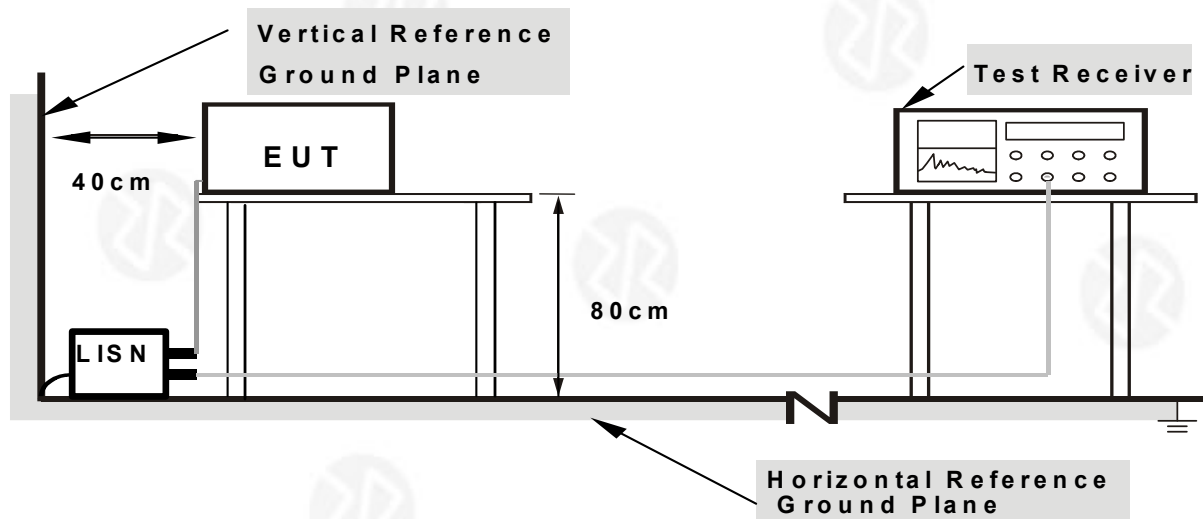


- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



**Note:** 1.Support units were connected to second LISN.  
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### 4.1.6 Test Result

The EUT is powered by the DC only, the test item is not applicable.



## 5. RADIATED EMISSION MEASUREMENT

|                       |                             |            |        |        |            |
|-----------------------|-----------------------------|------------|--------|--------|------------|
| Test Requirement:     | FCC Part15 C Section 15.209 |            |        |        |            |
| Test Method:          | ANSI C63.10:2013            |            |        |        |            |
| Test Frequency Range: | 9kHz to 1GHz                |            |        |        |            |
| Test site:            | Measurement Distance: 3m    |            |        |        |            |
| Receiver setup:       | Frequency                   | Detector   | RBW    | VBW    | Value      |
|                       | 9KHz-150KHz                 | Quasi-peak | 200Hz  | 600Hz  | Quasi-peak |
|                       | 150KHz-30MHz                | Quasi-peak | 9KHz   | 30KHz  | Quasi-peak |
|                       | 30MHz-1GHz                  | Quasi-peak | 100KHz | 300KHz | Quasi-peak |
|                       | Above 1GHz                  | Peak       | 1MHz   | 3MHz   | Peak       |
|                       |                             | Peak       | 1MHz   | 10Hz   | Average    |

### 5.1 Radiated Emission Limits

#### Limits for frequency below 30MHz

| Frequency   | Limit (uV/m) | Measurement Distance(m) | Remark           |
|-------------|--------------|-------------------------|------------------|
| 0.009-0.490 | 2400/F(kHz)  | 300                     | Quasi-peak Value |
| 0.490-1.705 | 24000/F(kHz) | 30                      | Quasi-peak Value |
| 1.705-30    | 30           | 30                      | Quasi-peak Value |

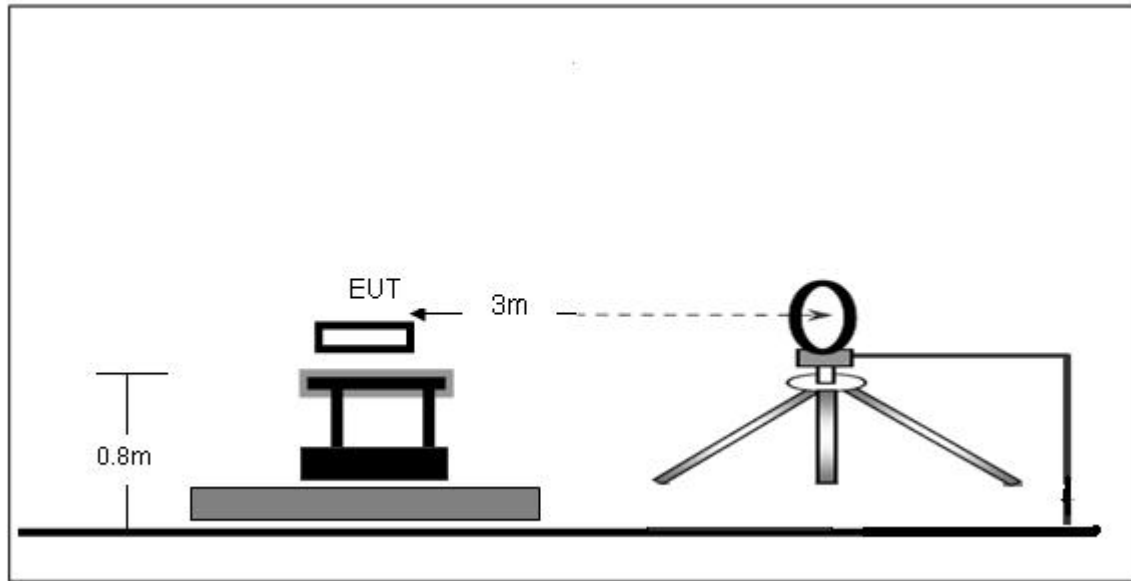
#### Limits for frequency Above 30MHz

| Frequency     | Limit (dBuV/m @3m) | Remark           |
|---------------|--------------------|------------------|
| 30MHz-88MHz   | 40.00              | Quasi-peak Value |
| 88MHz-216MHz  | 43.50              | Quasi-peak Value |
| 216MHz-960MHz | 46.00              | Quasi-peak Value |
| 960MHz-1GHz   | 54.00              | Quasi-peak Value |
| Above 1GHz    | 54.00              | Average Value    |
|               | 74.00              | Peak Value       |

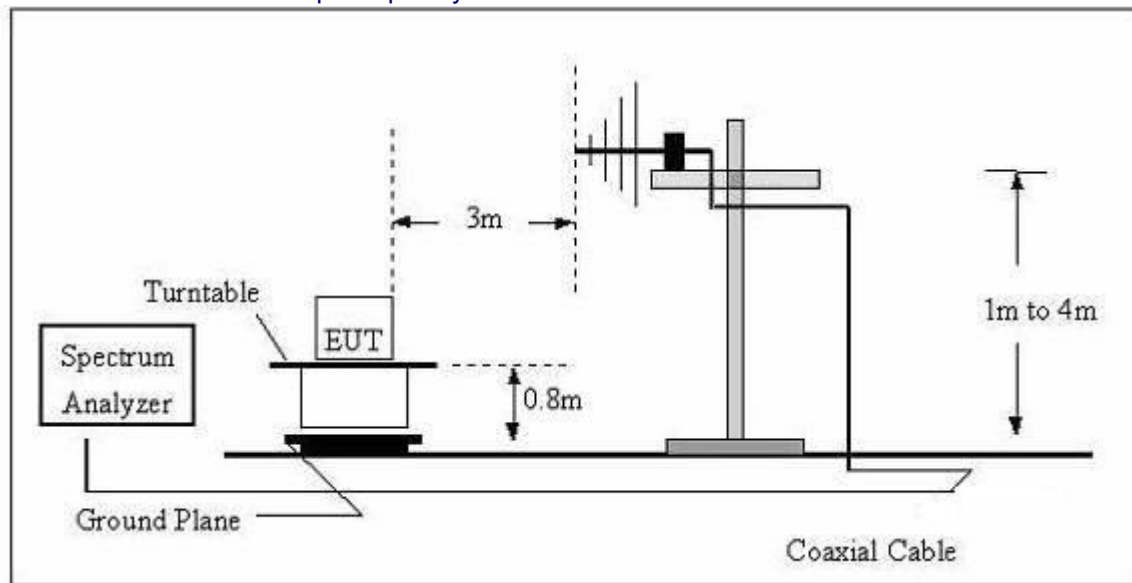


## 5.2 Anechoic Chamber Test Setup Diagram

### (A) Radiated Emission Test-Up Frequency Below 30MHz



### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

## 5.3 Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

## 5.4 DEVIATION FROM TEST STANDARD

No deviation



## 5.5 Test Result

### Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80  
Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin  | Detector Type |
|-----------|---------------|--------|----------------|----------|---------|---------------|
| (kHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)    |               |
| 24.83     | 39.58         | 20.15  | 59.73          | 119.39   | -59.66  | AV            |
| 56.75     | 50.17         | 20.33  | 70.50          | 112.51   | -42.01  | AV            |
| 124.43    | 71.358        | 20.55  | 91.908         | 106.34   | -14.432 | AV            |
| 685.18    | 31.98         | 20.64  | 52.62          | 70.89    | -18.27  | QP            |
| 965.64    | 35.22         | 21.26  | 56.48          | 67.91    | -11.43  | QP            |
| 1222.38   | 25.27         | 22.32  | 47.59          | 65.86    | -18.27  | QP            |

### Note:

Pre-scan in the all of mode, the worst case in of was recorded.

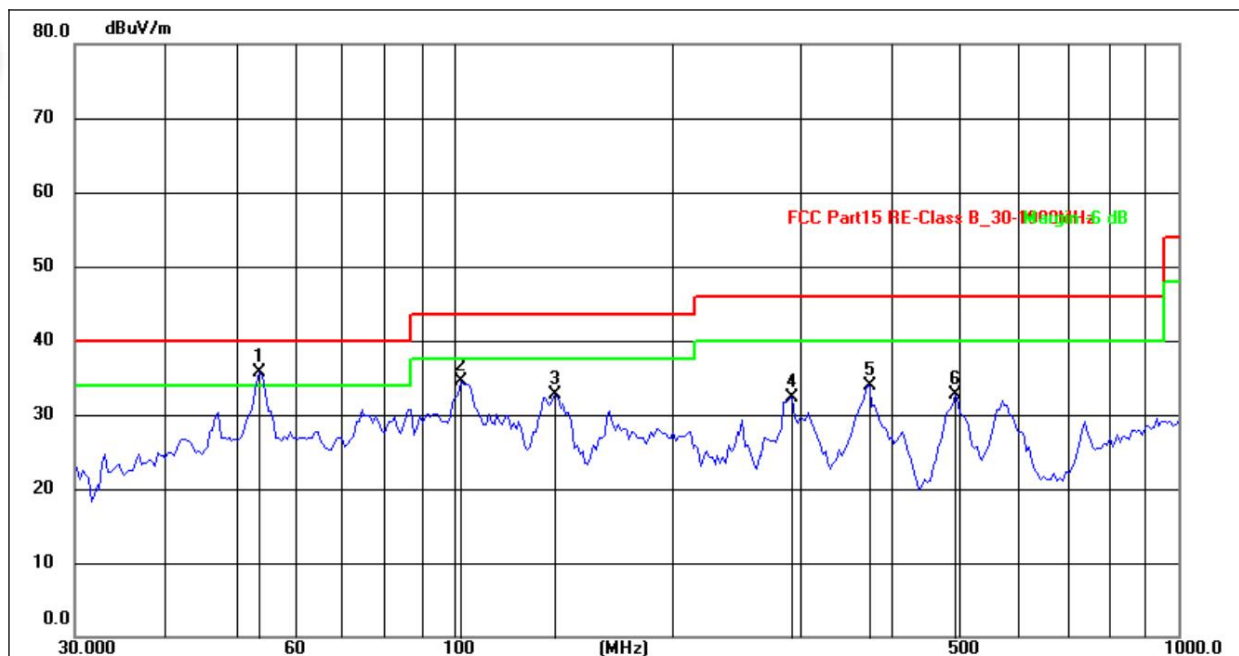
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



30MHz-1GHz

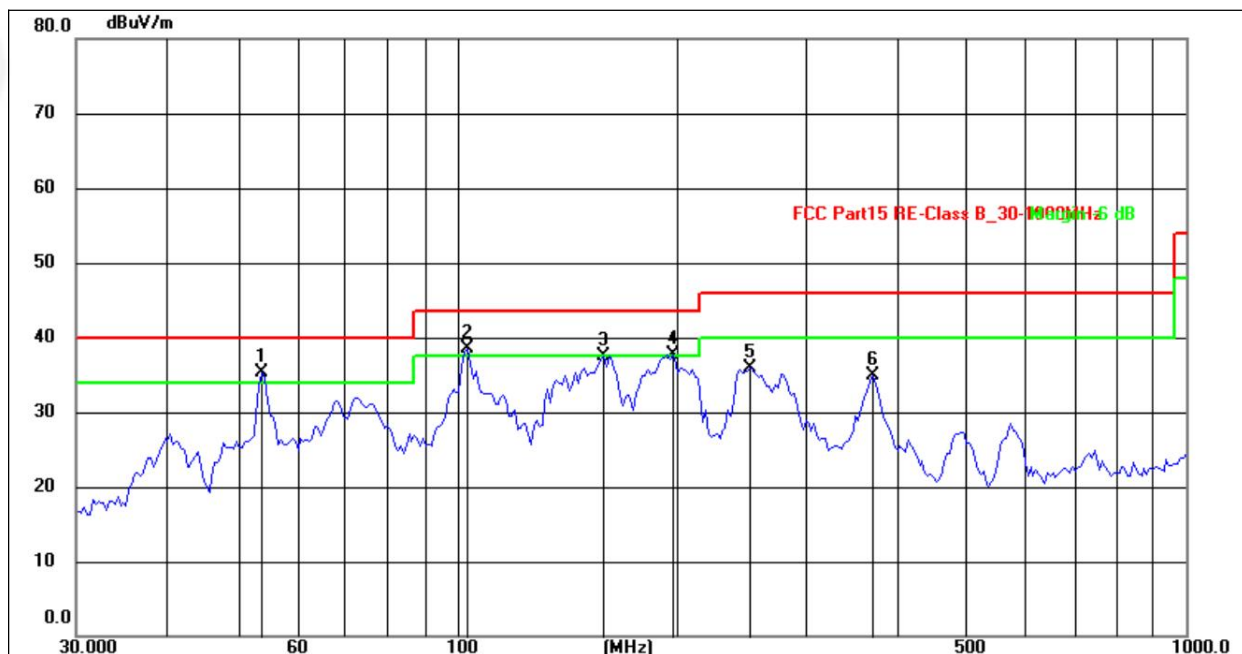
|               |         |                    |            |
|---------------|---------|--------------------|------------|
| Temperature:  | 26℃     | Relative Humidity: | 54%        |
| Pressure:     | 101 kPa | Polarization:      | Horizontal |
| Test Voltage: | DC 9V   |                    |            |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 53.9763         | 53.45          | -17.71        | 35.74          | 40.00          | -4.26       | QP       |
| 2   | 102.3596        | 55.83          | -21.24        | 34.59          | 43.50          | -8.91       | QP       |
| 3   | 137.9028        | 53.59          | -20.97        | 32.62          | 43.50          | -10.88      | QP       |
| 4   | 293.0842        | 50.84          | -18.54        | 32.30          | 46.00          | -13.70      | QP       |
| 5   | 374.6225        | 49.84          | -15.87        | 33.97          | 46.00          | -12.03      | QP       |
| 6   | 491.6057        | 44.55          | -11.87        | 32.68          | 46.00          | -13.32      | QP       |



|               |              |                    |          |
|---------------|--------------|--------------------|----------|
| Temperature:  | 26℃          | Relative Humidity: | 54%      |
| Pressure:     | 101kPa       | Polarization:      | Vertical |
| Test Voltage: | AC 120V/60Hz |                    |          |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 53.9763         | 49.38          | -14.13        | 35.25          | 40.00          | -4.75       | QP       |
| 2   | 103.2609        | 58.03          | -19.62        | 38.41          | 43.50          | -5.09       | QP       |
| 3   | 158.6676        | 53.76          | -16.24        | 37.52          | 43.50          | -5.98       | QP       |
| 4   | 197.5460        | 56.48          | -18.68        | 37.80          | 43.50          | -5.70       | QP       |
| 5   | 252.5049        | 51.80          | -15.83        | 35.97          | 46.00          | -10.03      | QP       |
| 6   | 371.3528        | 51.61          | -16.69        | 34.92          | 46.00          | -11.08      | QP       |

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



## 6. BANDWIDTH TEST

1. Set RBW = 100Hz.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

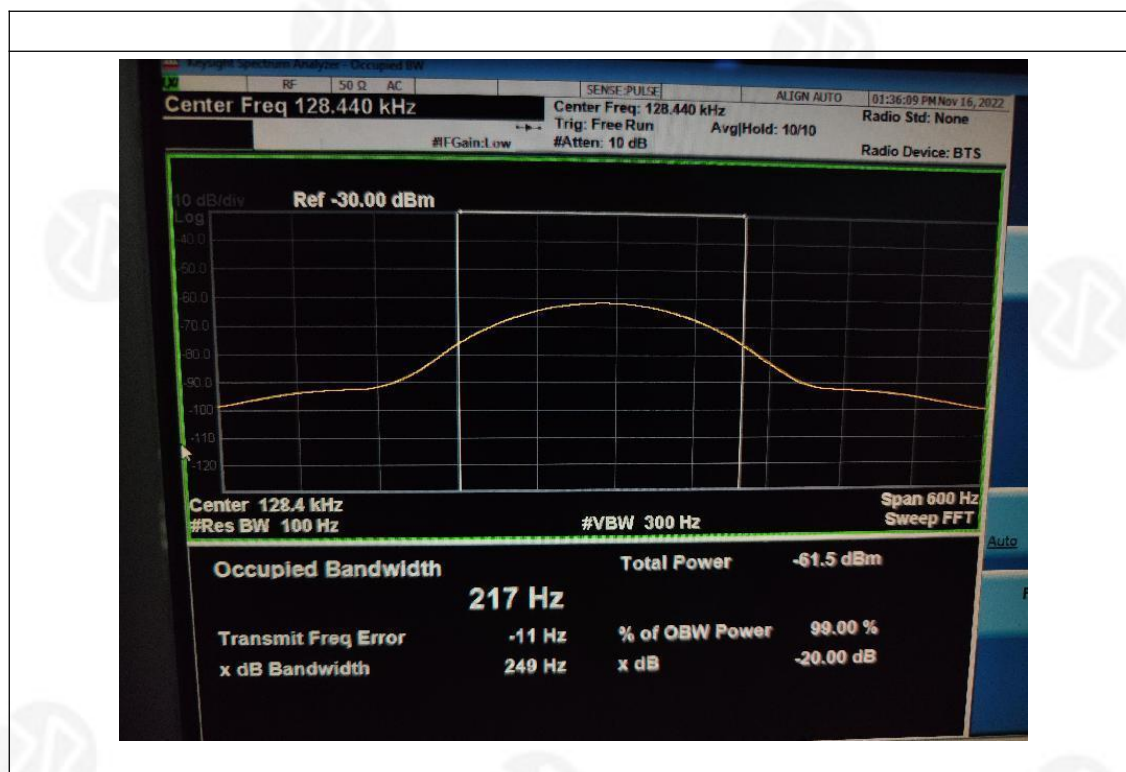
### TEST SETUP





|              |        |                    |     |
|--------------|--------|--------------------|-----|
| Temperature: | 26 °C  | Relative Humidity: | 54% |
| Pressure:    | 101kPa |                    |     |

| Frequency (KHz) | 20dB bandwidth (Hz) | 99% bandwidth (Hz) | Result |
|-----------------|---------------------|--------------------|--------|
| 128.440         | 249                 | 217                | Pass   |





## 7. ANTENNA REQUIREMENT

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Standard requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FCC Part15 C Section 15.203 |
| 15.203 requirement:<br>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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. |                             |
| EUT Antenna:                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |
| The antenna is Coil ANT, the best case gain of the antennas is 0dBi, reference to the appendix II for details                                                                                                                                                                                                                                                                                                                                                             |                             |



## 8. TEST SETUP PHOTO

Reference to the appendix I for details.

## 9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

\*\*\*\*\* END OF REPORT \*\*\*\*\*