

TEST REPORT

Product Name: Wireless Charging Pen Holder with Dual Outputs
FCC ID: 2ADK3XY-PR011
Trademark: N/A
Model Number: XY-PR011
Prepared For: XING DA INTERNATIONAL ELECTRONICS LIMITED
Address: #98 LiWu Swan Industrial District, Qiao Tou Town, Dong Guan, Guang Dong, China
Manufacturer: Dongguan Xing Yue Electronic co., Ltd
Address: #98 LiWu Swan Industrial District, Qiao Tou Town, Dong Guan, Guang Dong, China
Prepared By: Shenzhen CTB Testing Technology Co., Ltd.
Address: Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong China
Sample Received Date: Apr. 15, 2022
Sample tested Date: Apr. 15, 2022 to May. 10, 2022
Issue Date: May. 10, 2022
Report No.: CTB220511027RFX
Test Standards: FCC Part 15 C
Test Results: PASS
Remark: This is wireless charger radio test report.

Compiled by:

Arron Liu

Arron Liu

Reviewed by:

Bin Mei

Bin Mei

Approved by:



Rita Xiao / Director

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1. GENERAL INFORMATION

1.1. Report information

- 1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that CTB approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that CTB in any way guarantees the later performance of the product/equipment.
- 1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, CTB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 1.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through CTB, unless the applicant has authorized CTB in writing to do so.

1.2. Measurement Uncertainty

Available upon request.

1.3. Test Facility

Site Description

Name of Firm : Shenzhen CTB Testing Technology Co., Ltd.

Site Location : Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong China

1.4. Test Uncertainty

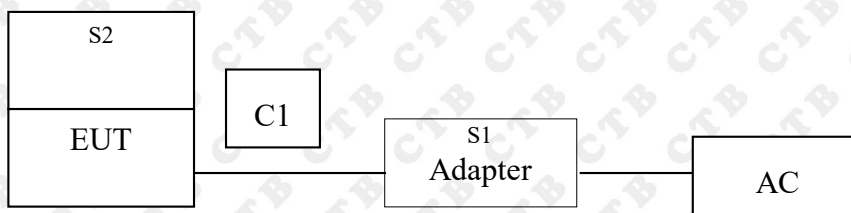
| Item | Uncertainty |
|---|--|
| Occupancy bandwidth | 54.3kHz |
| Conducted output power Above 1G | 0.9dB |
| Conducted output power below 1G | 0.9dB |
| Power Spectral Density , Conduction | 0.9dB |
| Conduction spurious emissions | 2.0dB |
| Out of band emission | 2.0dB |
| 3m chamber Radiated spurious emission(9KHz-30MHz) | 3m chamber Radiated spurious emission(9KHz-30MHz) |
| 3m chamber Radiated spurious emission(30MHz-1GHz) | 3m chamber Radiated spurious emission(30MHz-1GHz) |
| 3m chamber Radiated spurious emission(1GHz-18GHz) | 3m chamber Radiated spurious emission(1GHz-18GHz) |
| 3m chamber Radiated spurious emission(18GHz-40GHz) | 3m chamber Radiated spurious emission(18GHz-40GHz) |
| humidity uncertainty | 5.5% |
| Temperature uncertainty | 0.63°C |
| frequency | 1×10 ⁻⁷ |
| Conducted Emission (150KHz-30MHz) | 3.2 dB |
| Radiated Emission(30MHz ~ 1000MHz) | 4.8 dB |
| Radiated Emission(1GHz ~6GHz) | 4.9 dB |

2. PRODUCT DESCRIPTION

2.1. EUT Description

Description : Wireless Charging Pen Holder with Dual Outputs
Model Number : XY-PR011
Serial Model : N/A
Model Difference : N/A
Power Supply INPUT: 5V/2A
OUTPUT: 5W MAX
USB-A Outputs: 5V/1.5A total
MAX wireless charger power 5000mW
Work Frequency : 110-205KHz

2.2. Block Diagram of EUT Configuration



2.3. Test Conditions

Temperature: 23~25°C
Relative Humidity: 55~63 %

2.4. 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 | Wireless Charging Pen Holder with Dual Outputs | N/A | XY-PR011 | N/A | EUT |
| S1 | Adapter | N/A | HP18A-09020000-AU | N/A | EUT |
| S2 | I Phone | N/A | A12 | N/A | EUT |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| | | | | |
| | | | | |
| | | | | |

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. TEST RESULTS SUMMARY

Table 1 Test Results Summary

| Section | Test Items | Test Results |
|--------------|-----------------------|--------------|
| 15.207 | Conducted disturbance | Pass |
| 15.209(a)(f) | Radiated disturbance | Pass |
| 15.215 | 20 d B Bandwidth | Pass |
| 15.203 | Antenna requirement | Pass |

Remark: “N/A” means “Not applicable.”

4. TEST EQUIPMENT USED

4.1. MEASUREMENT INSTRUMENTS LIST

| Item | Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------|---|--------------|---------------------------|--------------|------------------|------------------|
| 1 | Spectrum Analyzer | Agilent | N9020A | MY52090073 | 2020.09.27 | 2022.08.05 |
| 2 | Power Sensor | Agilent | U2021XA | MY56120032 | 2020.09.27 | 2022.08.05 |
| 3 | Power Sensor | Agilent | U2021XA | MY56120034 | 2020.09.27 | 2022.08.05 |
| 4 | Communication test set | R&S | CMW500 | 108058 | 2020.09.27 | 2022.08.05 |
| 5 | Spectrum Analyzer | R&S | FSP40 | 100550 | 2020.09.27 | 2022.08.05 |
| 6 | Signal Generator | Agilent | N5181A | MY49060920 | 2020.09.27 | 2022.08.16 |
| 7 | Signal Generator | Agilent | N5182A | MY47420195 | 2020.09.27 | 2022.08.05 |
| 8 | Communication test set | Agilent | E5515C | MY50102567 | 2020.09.27 | 2022.08.16 |
| 9 | band rejection filter | Shenxiang | MSF2400-24 83.5MS-1154 | 20181015001 | 2020.09.27 | 2022.08.05 |
| 10 | band rejection filter | Shenxiang | MSF5150-58 50MS-1155 | 20181015001 | 2020.09.27 | 2022.08.05 |
| 11 | band rejection filter | Xingbo | XBLBQ-DZA 120 | 190821-1-1 | 2020.09.27 | 2022.08.05 |
| 12 | BT&WI-FI Automatic test software | Microwave | MTS8310 | Ver. 2.0.0.0 | \ | \ |
| 13 | Rohde & Schwarz SFU Broadcast Test System | R&S | SFU | 101017 | 2020.09.27 | 2022.08.05 |
| 14 | Temperature humidity chamber | Hongjing | TH-80CH | DG-15174 | 2020.09.27 | 2022.08.05 |
| 15 | 234G Automatic test software | Microwave | MTS8200 | Ver. 2.0.0.0 | \ | \ |
| 16 | 966 chamber | C.R.T. | 966 Room | 966 | 2020.09.27 | 2024.08.11 |
| 17 | Receiver | R&S | ESPI | 100362 | 2020.09.27 | 2022.08.05 |
| 18 | Amplifier | HP | 8447E | 2945A02747 | 2020.09.27 | 2022.08.05 |
| 19 | Amplifier | Agilent | 8449B | 3008A01838 | 2020.09.27 | 2022.08.05 |
| 20 | TRILOG Broadband Antenna | Schwarzbeck | VULB 9168 | 00869 | 2020.09.27 | 2022.08.07 |
| 21 | Horn Antenna | Schwarzbeck | BBHA9120D | 1911 | 2020.09.27 | 2022.08.08 |
| 22 | Software | Fala | EZ-EMC | FA-03A2 RE | \ | \ |
| 23 | 3-Loop Antenna | Daze | ZN30401 | 17014 | 2020.09.27 | 2022.08.05 |

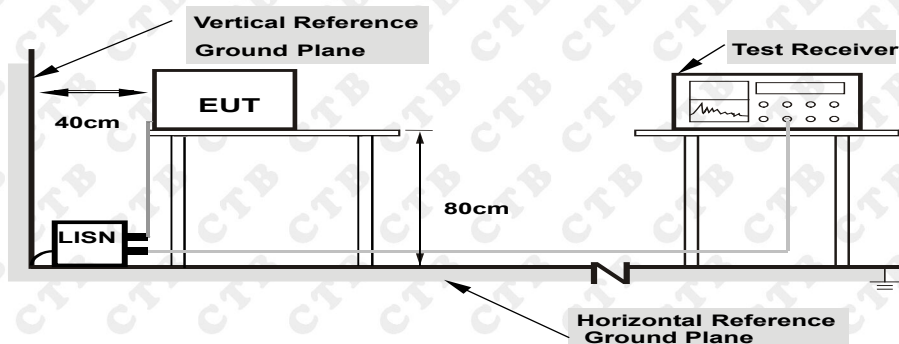
| | | | | | | |
|----|--------------|------------|----------|----------|------------|------------|
| 24 | loop antenna | ZHINAN | ZN30900A | / | 2020.09.27 | 2022.08.05 |
| 25 | Horn antenna | A/H/System | SAS-574 | 588 | 2020.09.27 | 2022.08.05 |
| 26 | Amplifier | AEROFLEX | / | S/N/ 097 | 2020.09.27 | 2022.08.05 |

| Conducted emissions Test | | | | | |
|--------------------------|-------------------|--------------|------------------|------------|------------|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. |
| AMN | ROHDE&SCHW ARZ | ESH3-Z5 | 100318 | 2020.09.27 | 2022.08.05 |
| Pulse limiter | ROHDE&SCHW ARZ | ESH3Z2 | 357881052 | 2020.09.27 | 2022.08.05 |
| EMI TEST RECEIVER | ROHDE&SCHW ARZ | ESCS30 | 834115/006 | 2020.09.27 | 2022.08.05 |
| Coaxial cable | ZDECL | Z302S | 18091804 | 2020.09.27 | 2022.08.05 |
| ISN | TESEQ | NTFM815 8 | 183 | 2020.09.27 | 2022.08.05 |
| EMI TEST RECEIVER | ROHDE&SCHW ARZ | ESCI | 100428/003 | 2020.09.27 | 2022.08.05 |
| Software | Fala | EZ-EMC | EMC-CON 3A1.1 | \ | \ |

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|--|---------------|---------------------------|------------|------------|------------|
| Double Ridged Broadband Horn Antenna | Schwarzbeck | BBHA 9120D | 1911 | 2020.09.27 | 2022.08.08 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB 9168 | 869 | 2020.09.27 | 2022.08.05 |
| Amplifier | Agilent | 8449B | 3008A01838 | 2020.09.27 | 2022.08.05 |
| Amplifier | HP | 8447E | 2945A02747 | 2020.09.27 | 2022.08.05 |
| EMI TEST RECEIVER | ROHDE&SCHWARZ | ESPI7 | 100362 | 2020.09.27 | 2022.08.05 |
| Coaxial cable | ETS | RFC-SNS-100-NMS-80 NI | / | 2020.09.27 | 2022.08.05 |
| Coaxial cable | ETS | RFC-SNS-100-NMS-20 NI | / | 2020.09.27 | 2022.08.05 |
| Coaxial cable | ETS | RFC-SNS-100-SMS-20 NI | / | 2020.09.27 | 2022.08.05 |
| Coaxial cable | ETS | RFC-NNS-100-NMS-300 NI | / | 2020.09.27 | 2022.08.05 |
| Communication test set | Agilent | E5515C | MY50102567 | 2020.09.27 | 2022.08.16 |
| Communication test set | R&S | CMW500 | 108058 | 2020.09.27 | 2022.08.05 |
| EZ-EMC | Frad | EMC-con3A1.1 | / | / | / |

5. CONDUCTED EMISSION TEST

5.1. Block Diagram of 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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

5.2. Test Standard

FCC§15.207

5.3. Conducted Emission Limit

| Frequency MHz | Limits dB(μ V) | |
|------------------|---------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66 ~ 56* | 56 ~ 46* |
| 0.50 ~ 5.00 | 56 | 46 |
| 5.00 ~ 30.00 | 60 | 50 |

Notes: 1. *Decreasing linearly with logarithm of frequency.

5.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC Part 15.207 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

5.5. Operating Condition of EUT

5.5.1. Setup the EUT and simulators as shown in Section 5.1.

5.5.2. Turn on the power of all equipments.

5.5.3. Let the EUT work in test modes (EUT Working) and test it.

5.6. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESHS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

The bandwidth of the test receiver (R&S Test Receiver ESHS30) is set at 10kHz.

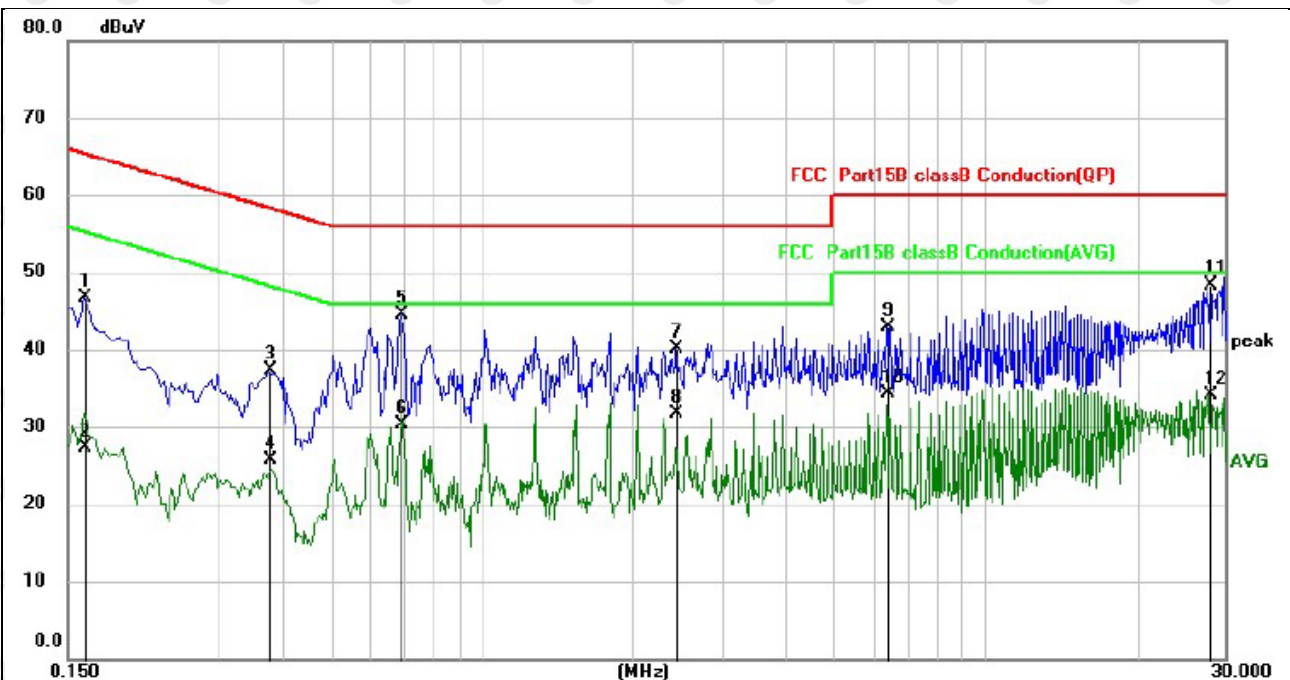
We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

5.7. Test Result

PASS

Please refer to the following pages.

| | | | |
|----------------|--------------|--------------------|-------------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | L |
| Test Voltage : | AC 120V/60Hz | Test Mode: | Normal Link |

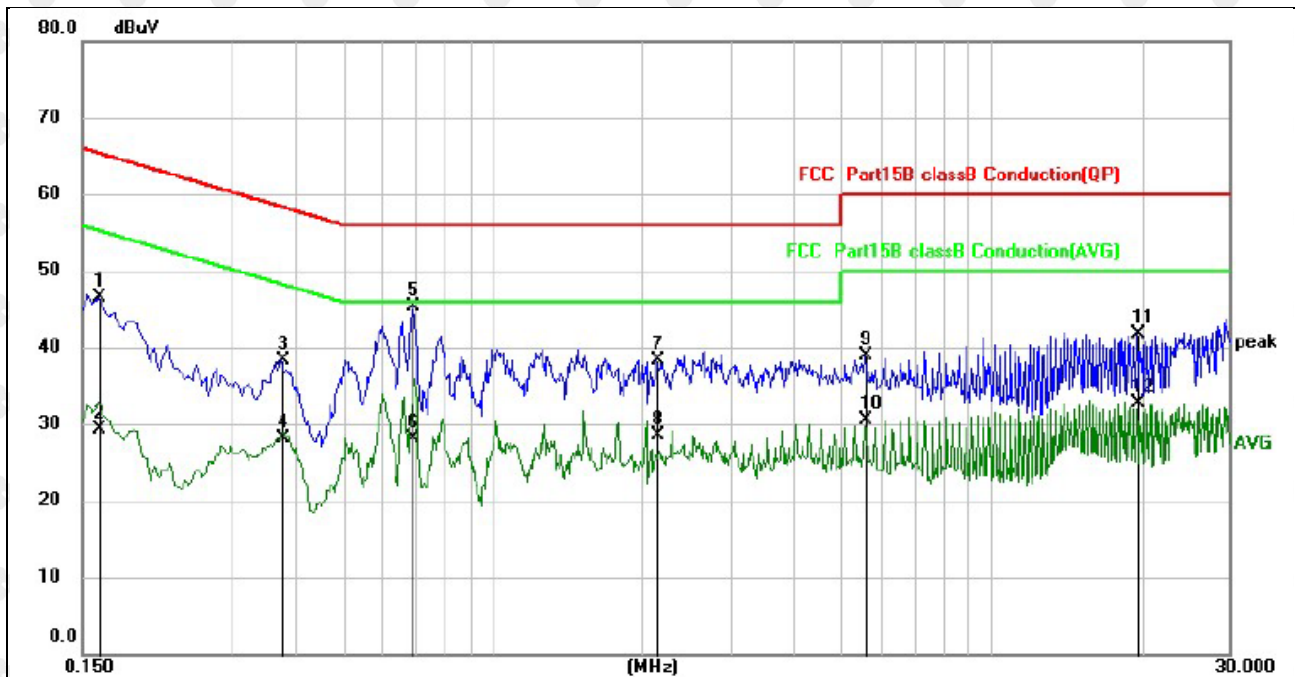


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|
| 1 | | 0.1620 | 36.00 | 10.71 | 46.71 | 65.36 | -18.65 | QP |
| 2 | | 0.1620 | 16.64 | 10.71 | 27.35 | 55.36 | -28.01 | AVG |
| 3 | | 0.3780 | 26.67 | 10.59 | 37.26 | 58.32 | -21.06 | QP |
| 4 | | 0.3780 | 15.11 | 10.59 | 25.70 | 48.32 | -22.62 | AVG |
| 5 | * | 0.6900 | 33.90 | 10.56 | 44.46 | 56.00 | -11.54 | QP |
| 6 | | 0.6900 | 19.82 | 10.56 | 30.38 | 46.00 | -15.62 | AVG |
| 7 | | 2.4340 | 29.57 | 10.63 | 40.20 | 56.00 | -15.80 | QP |
| 8 | | 2.4340 | 21.06 | 10.63 | 31.69 | 46.00 | -14.31 | AVG |
| 9 | | 6.3580 | 32.14 | 10.70 | 42.84 | 60.00 | -17.16 | QP |
| 10 | | 6.3580 | 23.62 | 10.70 | 34.32 | 50.00 | -15.68 | AVG |
| 11 | | 27.9300 | 37.38 | 11.02 | 48.40 | 60.00 | -11.60 | QP |
| 12 | | 27.9300 | 23.03 | 11.02 | 34.05 | 50.00 | -15.95 | AVG |

| | | | |
|----------------|--------------|--------------------|-------------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | N |
| Test Voltage : | AC 120V/60Hz | Test Mode: | Normal Link |



Remark:

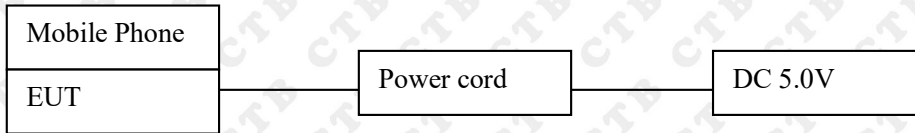
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|
| 1 | | 0.1620 | 35.76 | 10.71 | 46.47 | 65.36 | -18.89 | QP |
| 2 | | 0.1620 | 18.55 | 10.71 | 29.26 | 55.36 | -26.10 | AVG |
| 3 | | 0.3780 | 27.78 | 10.59 | 38.37 | 58.32 | -19.95 | QP |
| 4 | | 0.3780 | 17.52 | 10.59 | 28.11 | 48.32 | -20.21 | AVG |
| 5 | * | 0.6900 | 34.81 | 10.56 | 45.37 | 56.00 | -10.63 | QP |
| 6 | | 0.6900 | 17.51 | 10.56 | 28.07 | 46.00 | -17.93 | AVG |
| 7 | | 2.1340 | 27.65 | 10.63 | 38.28 | 56.00 | -17.72 | QP |
| 8 | | 2.1340 | 17.87 | 10.63 | 28.50 | 46.00 | -17.50 | AVG |
| 9 | | 5.5900 | 28.28 | 10.67 | 38.95 | 60.00 | -21.05 | QP |
| 10 | | 5.5900 | 19.81 | 10.67 | 30.48 | 50.00 | -19.52 | AVG |
| 11 | | 19.5700 | 30.70 | 10.98 | 41.68 | 60.00 | -18.32 | QP |
| 12 | | 19.5700 | 21.74 | 10.98 | 32.72 | 50.00 | -17.28 | AVG |

6. RADIATED EMISSION MEASUREMENT

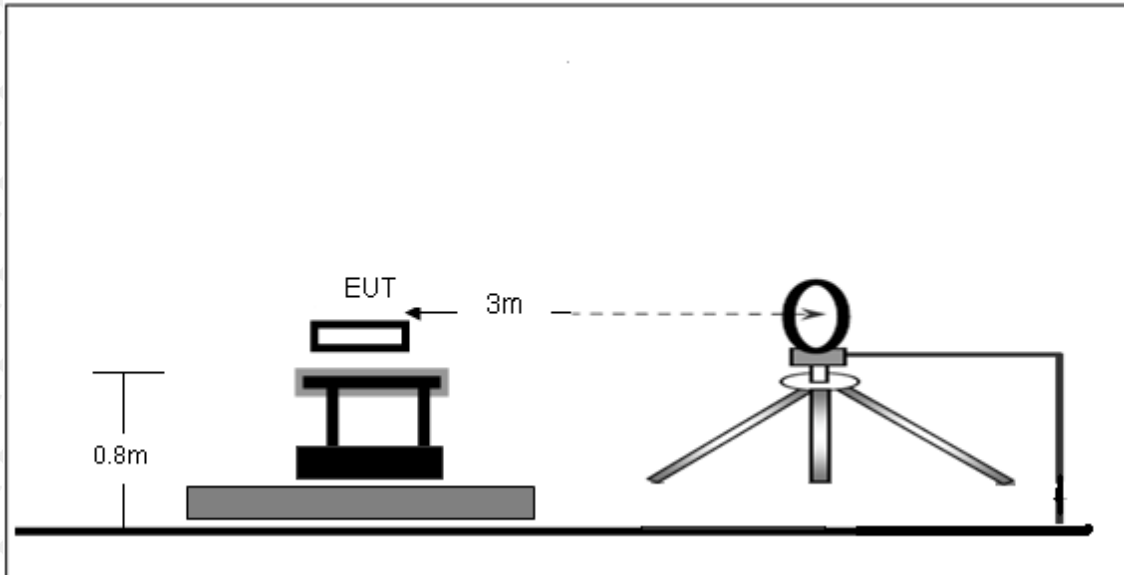
6.1. Block Diagram of Test Setup

6.1.1. Block Diagram of connection between the EUT and the simulators

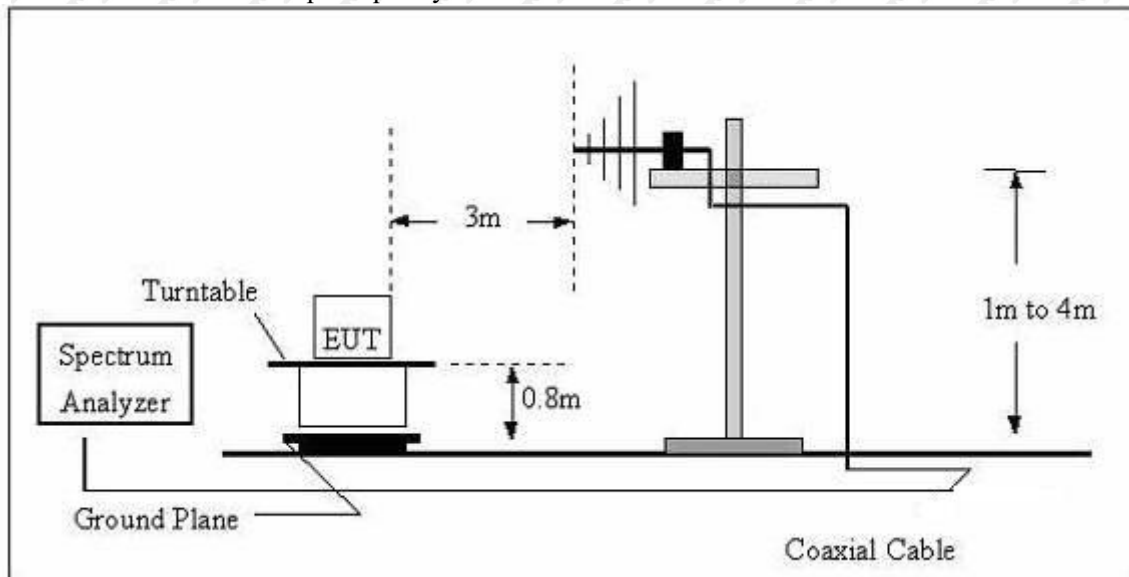


6.1.2. Anechoic Chamber Test Setup Diagram

(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.

6.2. Test Standard

FCC §15.209; §15.205

6.3. EMI Test Receiver Setup

The system was investigated from 9kHz to1GHz.

During the radiated emission test, the EMI test receiver setup was set with the following configurations:

| Frequency Range | RBW | Video B/W | Detector |
|-------------------|---------|-----------|----------|
| 9 kHz – 150 kHz | 200 kHz | 1 kHz | QP |
| 150 kHz – 30MHz | 9kHz | 30kHz | QP |
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz | QP |

Note: For the frequency bands 9-90 kHz and 110-490 kHz, the test was based on average detector.

6.4. 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.

6.5. Test Result

PASS

Please refer to the following pages.

9kHz-30MHz

| | | | |
|----------------|-------------|--------------------|------------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010 hPa | Polarization : | Horizontal |
| Test Voltage : | AC120V/60Hz | Test Mode : | 5W |

| Freq. (MHz) | Detector Mode (PK/QP/AV) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
|-------------|--------------------------|----------------|-------------|--------------------|--------------------|-----------------|
| 0.113 | PEAK | 52.31 | 20.47 | 72.78 | 106.50 | -33.72 |
| 0.338 | PEAK | 43.35 | 20.23 | 63.58 | 97.00 | -33.42 |
| 0.566 | PEAK | 36.51 | 20.01 | 56.52 | 72.50 | -15.98 |
| 0.802 | PEAK | 32.76 | 19.95 | 52.71 | 69.50 | -16.79 |
| 1.134 | PEAK | 24.88 | 19.87 | 44.75 | 69.50 | -24.75 |
| 2.354 | PEAK | 27.80 | 19.78 | 47.58 | 69.50 | -21.92 |

Note:

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

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

Margin = Limit - Emission Level.

30MHz-1GHz

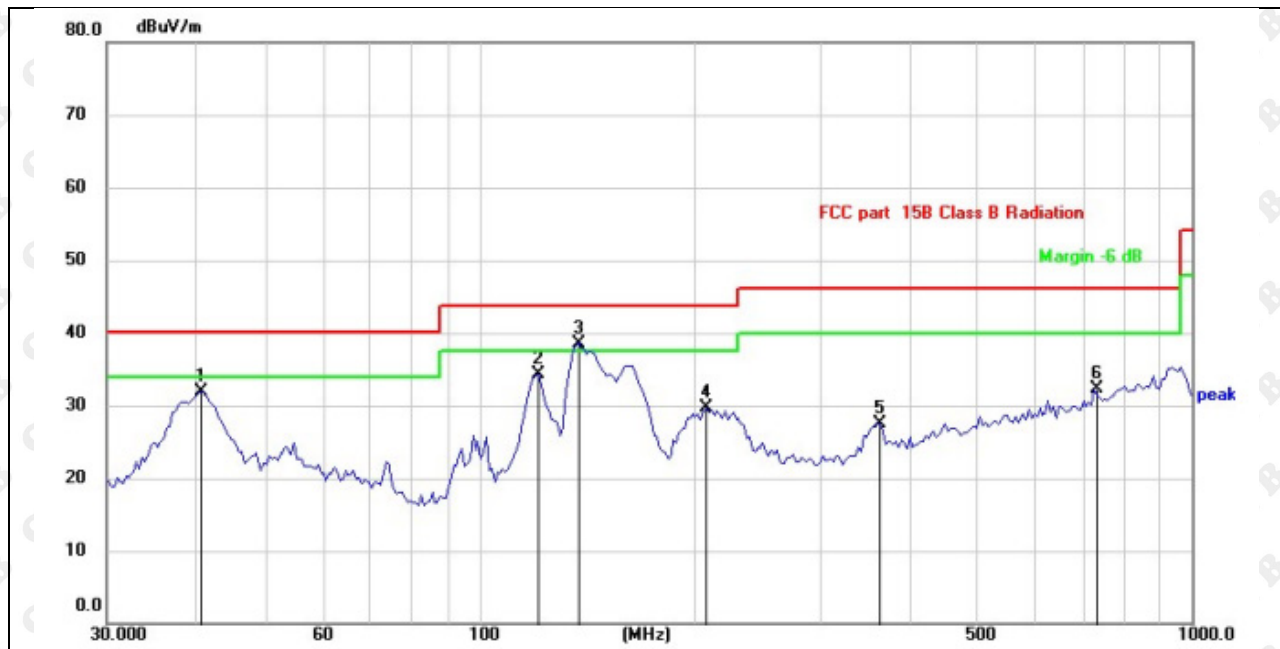
| | | | |
|-----------------------|-------------|--------------------|------------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010 hPa | Polarization : | Horizontal |
| Test Voltage : | AC120V/60Hz | Test Mode : | 5W |



Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier, Margin = Measurement– Limit.

| No. Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dB/m | Over dB | Detector |
|---------|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1 | 40.0644 | 28.41 | -5.27 | 23.14 | 40.00 | -16.86 | QP |
| 2 | 74.6569 | 31.55 | -8.78 | 22.77 | 40.00 | -17.23 | QP |
| 3 | 119.8556 | 38.45 | -6.91 | 31.54 | 43.50 | -11.96 | QP |
| 4 | 162.8959 | 37.94 | -5.74 | 32.20 | 43.50 | -11.30 | QP |
| 5 * | 229.2931 | 42.39 | -5.95 | 36.44 | 43.50 | -7.06 | QP |
| 6 | 364.8987 | 34.11 | -2.92 | 31.19 | 46.00 | -14.81 | QP |

| | | | |
|----------------|-------------|--------------------|----------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010 hPa | Polarization : | Vertical |
| Test Voltage : | AC120V/60Hz | Test Mode : | 5W |

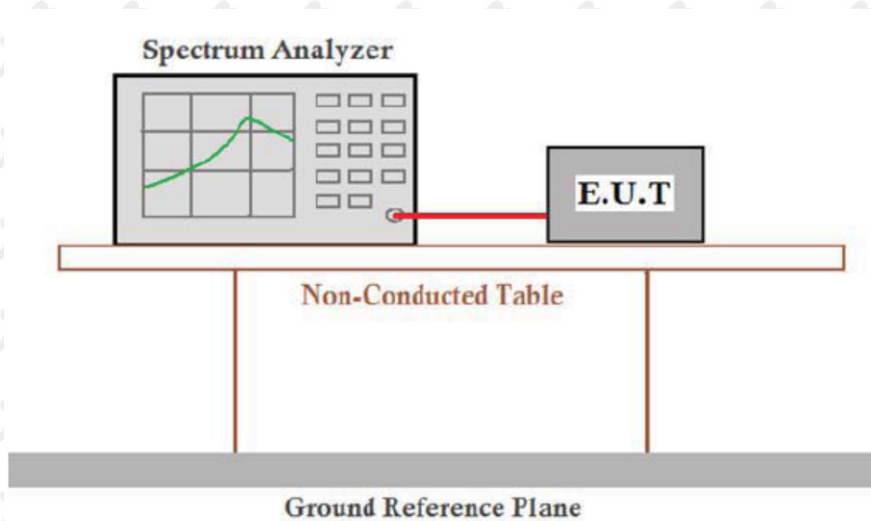


Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier, Margin = Measurement– Limit.

| No. Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dB/m | Over dB | Detector |
|---------|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1 | 40.7730 | 37.14 | -5.30 | 31.84 | 40.00 | -8.16 | QP |
| 2 | 120.9109 | 41.08 | -6.82 | 34.26 | 43.50 | -9.24 | QP |
| 3 * | 137.9028 | 44.19 | -5.59 | 38.60 | 43.50 | -4.90 | QP |
| 4 | 208.2148 | 37.36 | -7.63 | 29.73 | 43.50 | -13.77 | QP |
| 5 | 364.8987 | 30.48 | -2.92 | 27.56 | 46.00 | -18.44 | QP |
| 6 | 729.3583 | 27.67 | 4.57 | 32.24 | 46.00 | -13.76 | QP |

7. OCCUPIED BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Rules and specifications

CFR 47 Part 15.215(c)
ANSI C63.10-2013

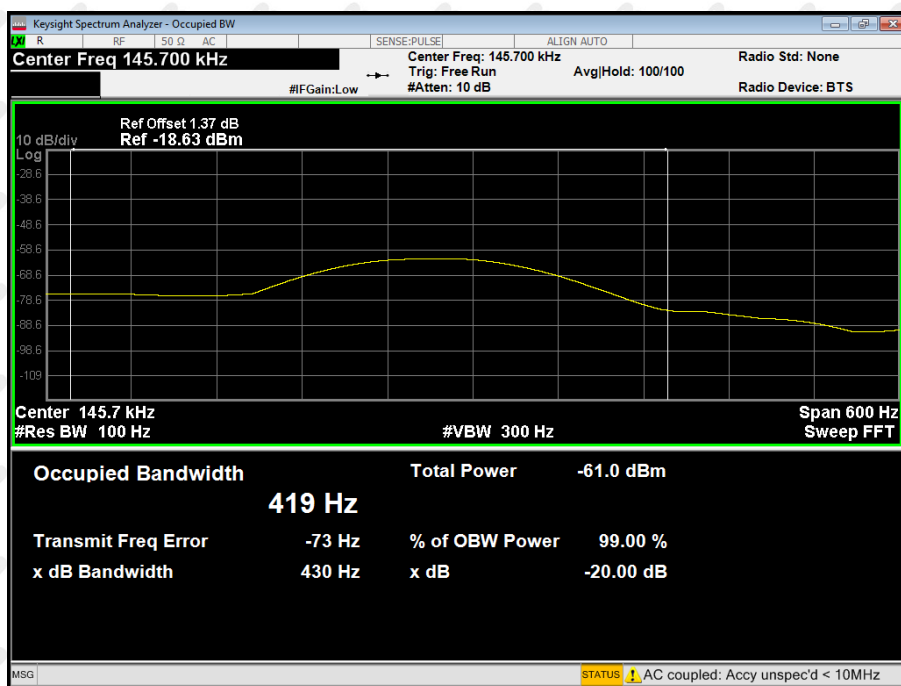
7.3. Test Procedure

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

7.4. Test Result

PASS

| Mode | Freq (KHz) | 20dB Bandwidth (Hz) | Limit (Hz) | Conclusion |
|---------|------------|---------------------|------------|------------|
| Tx Mode | 145.7 | 430 | / | PASS |



8. ANTENNA REQUIREMENT

15.203 requirement:

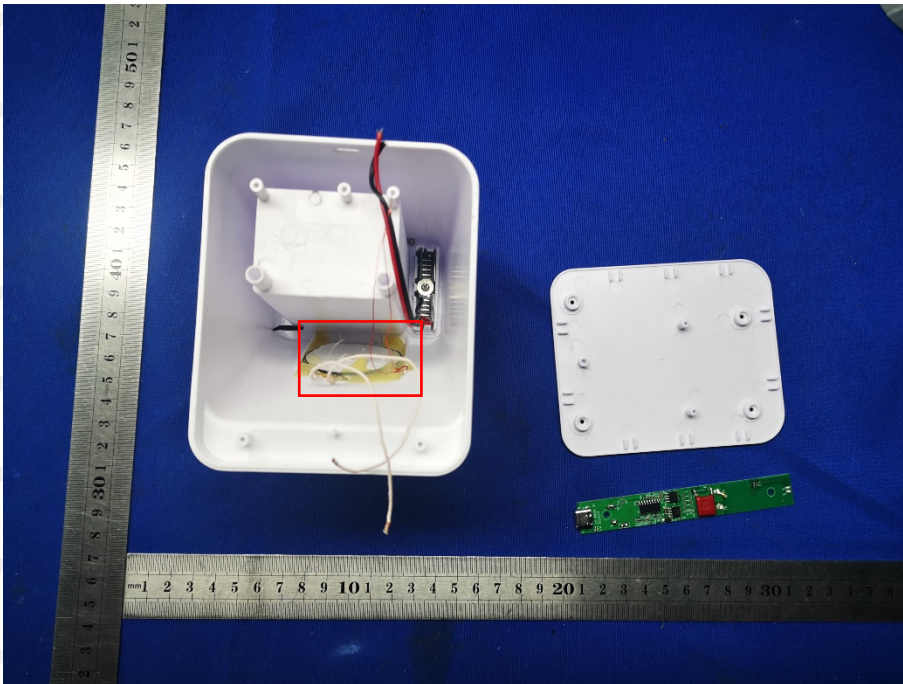
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

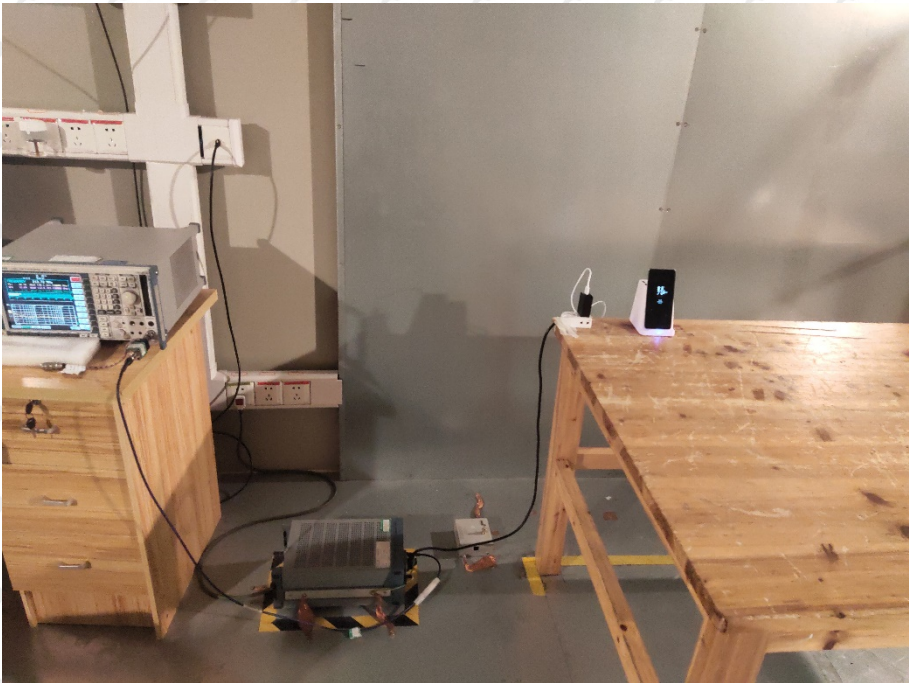
EUT Antenna:

The antenna is Loop antenna. The best case gain of the antenna is 0dBi.

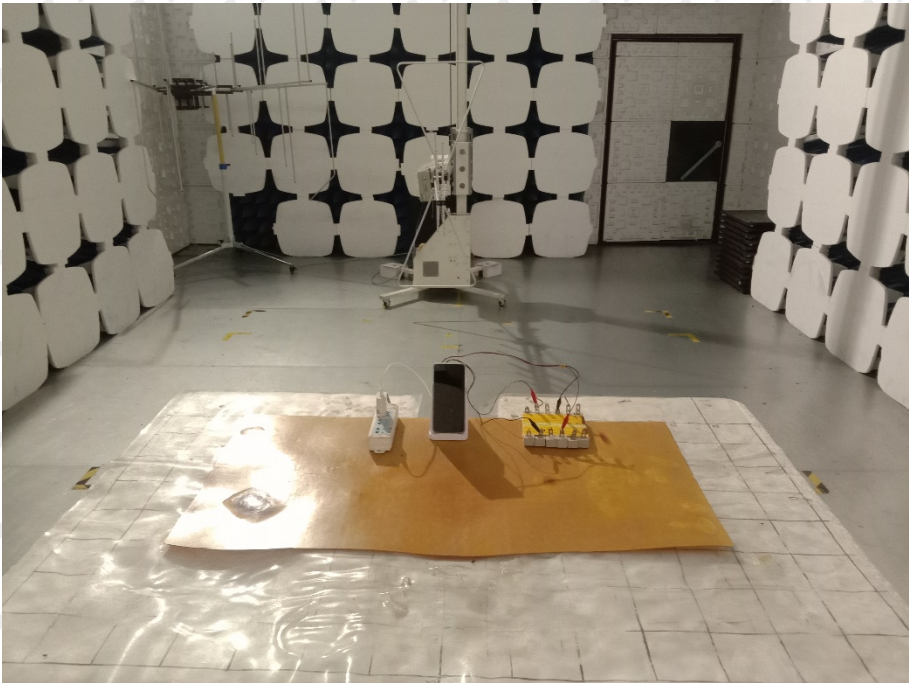


9. EUT TEST PHOTOS

Conducted Measurement Photos



30MHz-1GHz



9KHz-30MHz



10.EUT PHOTOS

EUT 1



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