# FCC TEST REPORT
# FCC ID:2BEVL-ZNMB

| | |
|---|---|
| **Report Number**.....: | **ZHT-240115016E** |
| Date of Test.....: | Jan.15, 2024 to Jan. 26, 2024 |
| Date of issue.....: | Jan. 26, 2024 |
| Test Result .....: | PASS |
| **Testing Laboratory**.....: | **Guangdong Zhonghan Testing Technology Co., Ltd.** |
| Address .....: | Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| **Applicant's name** .....: | **Shenzhen CWG Technology Co., Ltd** |
| Address .....: | 2/F, 1 building,No. 69 Shilong Avenue, Shiyan Street, Baoan District, Shenzhen City |
| **Manufacturer's name** .....: | **Shenzhen CWG Technology Co., Ltd** |
| Address .....: | 2/F, 1 building,No. 69 Shilong Avenue, Shiyan Street, Baoan District, Shenzhen City |
| **Test specification:** | |
| Standard.....: | FCC CFR Title 47 Part 15 Subpart C |
| Test procedure.....: | / |
| Non-standard test method .....: | N/A |

This device described above has been tested by ZHT, and the test resul/ show that the equipment under test (EUT) is in compliance with the FCC requiremen/. And it is applicable only to the tested sample identified in the report.
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| | |
|---|---|
| **Product name**.....: | **Intelligent Touch Panel LED strip** |
| Trademark .....: | 创唯光 |
| Model/Type reference.....: | CWG-12V-60D-ZNMB |
| Model Difference.....: | / |
| Ratings.....: | Input:DC 12V<br>Wireless charging output: 15 W Max |

Testing procedure and testing location:

| | |
|---|---|
| Testing Laboratory..... : | Guangdong Zhonghan Testing Technology Co., Ltd. |
| Address..... : | Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Tested by (name + signature)..... : | Leon Li |
| Reviewer (name + signature)..... : | Baret Wu |
| Approved (name + signature)..... : | Levi Lee |

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## 1. VERSION

| Report No. | Version | Description | Approved |
|---|---|---|---|
| ZHT-240115016E | Rev.01 | Initial issue of report | Jan. 26, 2024 |
| | | | |
| | | | |

## 2. TEST SUMMARY

| Test Item | Section in CFR 47 | Result |
|---|---|---|
| Antenna requirement | 15.203 | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| 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

Guangdong Zhonghan Testing Technology Co., Ltd.
Add. : Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an Distric Shenzhen, Guangdong, China

FCC Registration Number:255941
Designation Number: CN0325
IC Registered No.: 29832
CAB identifier: CN0143

## 2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U，where expended 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 | Conducted Emission Test | ±1.38dB |
| 2 | RF power conducted | ±0.16dB |
| 3 | Spurious emissions conducted | ±0.21dB |
| 4 | All emissions radiated(9k-30MHz) | ±4.68dB |
| 5 | All emissions radiated(<1G) | ±4.68dB |
| 6 | All emissions radiated(>1G) | ±4.89dB |
| 7 | Temperature | ±0.5°C |
| 8 | Humidity | ±2% |
| 9 | Occupied Bandwidth | ±4.96% |

## 3. GENERAL INFORMATION

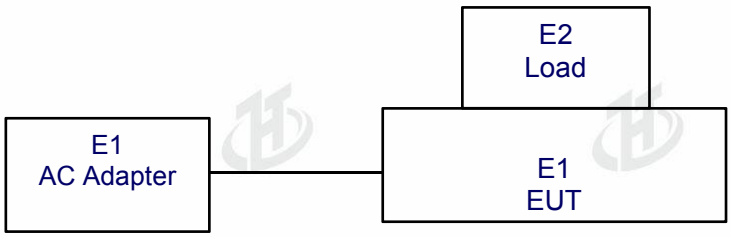
### 3.1 GENERAL DESCRIPTION OF EUT

| | | |
|---|---|---|
| EUT Name | : | Intelligent Touch Panel LED strip |
| Test Model No. | : | CWG-12V-60D-ZNMB |
| Operation frequency | : | 110-205KHz |
| Modulation | : | MSK |
| Antenna Type | : | Coil Antenna |
| Channel numbers | : | 1 |
| Hardware Version | : | V1.0 |
| Software Version | : | V1.0 |

### 3.2 Test mode

| **Test Modes:** | |
|---|---|
| Mode 1 | Wireless charging mode(15W) |
| Mode 2 | Wireless charging mode(10W) |
| Mode 3 | Wireless charging mode(7.5W) |
| Mode 4 | Wireless charging mode(5W) |
| Note: All modes were tested, only the worst-case was recorded in the report. Mode 1 is the worst mode. | |

### 3.3 Block Diagram of EUT Configuration




### 3.4 Test Conditions

Temperature: 23~26℃

Relative Humidity: 54~63 %

3.5 Description Of Support Uni/ (Conducted Mode)

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

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|---|---|---|---|---|---|
| E1 | Power adapter | / | GS-551E | / | AE |
| E2 | Wireless charging load | / | EESON | N/A | AE |
| | | | | | |
| | | | | | |
| | | | | | |

| 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”.

3.6 EQUIPMEN/ LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Item | Equipment | Manufacturer | Model | Last Cal. | Next Cal. |
|---|---|---|---|---|---|
| 1 | Receiver | R&S | ESCI | Mar 12, 2023 | Mar 11, 2024 |
| 2 | Loop antenna | EMCI | LAP600 | Mar 12, 2023 | Mar 11, 2024 |
| 3 | Amplifier | Schwarzbeck | BBV 9743 B | Mar 12, 2023 | Mar 11, 2024 |
| 4 | Amplifier | Schwarzbeck | BBV 9718 B | Mar 12, 2023 | Mar 11, 2024 |
| 5 | Bilog Antenna | Schwarzbeck | VULB9162 | Mar 17, 2023 | Mar 16, 2024 |
| 6 | Horn Antenna | Schwarzbeck | BBHA9120D | Mar 17, 2023 | Mar 16, 2024 |
| 7 | Horn Antenna | A.H.SYSTEMS | SAS574 | Mar 12, 2023 | Mar 11, 2024 |
| 8 | Amplifier | AEROFLEX | 100KHz-40GHz | Mar 12, 2023 | Mar 11, 2024 |
| 9 | Spectrum Analyzer | R&S | FSV40 | Mar 12, 2023 | Mar 11, 2024 |
| 10 | CDNE | Schwarzbeck | CDNE M2 + CDNE M3 | Aug. 09, 2022 | Aug. 08, 2023 |
| 11 | 966 Anechoic Chamber | EMToni | 9m6m6m | Nov. 25, 2021 | Nov. 24, 2024 |
| 12 | Spectrum Analyzer | KEYSIGHT | N9020A | Mar 12, 2023 | Mar 11, 2024 |
| 13 | WIDBAND RADIO COMMUNICATI ON TESTER | R&S | CMW500 | Mar 12, 2023 | Mar 11, 2024 |
| 14 | Single Generator | Agilent | N5182A | Mar 12, 2023 | Mar 11, 2024 |
| 15 | Power Sensor | MWRFtest | MW100-RFCB | Mar 12, 2023 | Mar 11, 2024 |
| 16 | Audio analyzer | R&S | UPL | Mar 12, 2023 | Mar 11, 2024 |
| 17 | Single Generator | R&S | SMB100A | Mar 12, 2023 | Mar 11, 2024 |
| 18 | Power Amplifier Shielding Room | EMToni | 2m3m3m | Nov. 25, 2021 | Nov. 24, 2024 |

Conduction Test equipment

| Equipment | Manufacturer | Model | Asset NO. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|
| Receiver | R&S | ESCI | ZH-E005 | May 12, 2023 | May 11, 2024 |
| LISN | R&S | ENV216 | ZH-E006 | May 12, 2023 | May 11, 2024 |
| ISN CAT 6 | Schwarzbeck | NTFM 8158 | ZH-E012 | May 12, 2023 | May 11, 2024 |
| ISN CAT 5 | Schwarzbeck | CAT5 8158 | ZH-E013 | May 12, 2023 | May 11, 2024 |
| Capacitive Voltage Probe | Schwarzbeck | CVP 9222 C | ZH-E014 | May 12, 2023 | May 11, 2024 |
| Current Transformer Clamp | Schwarzbeck | SW 9605 | ZH-E015 | May 12, 2023 | May 11, 2024 |
| CE Shielding Room | EMToni | 9m4m3m | ZH-E002 | Nov. 25, 2021 | Nov. 24, 2024 |

## 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 Limit

| FREQUENCY (MHz) | Limit (dBuV) | | Standard |
|---|---|---|---|
| | QP | AVG | |
| 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.

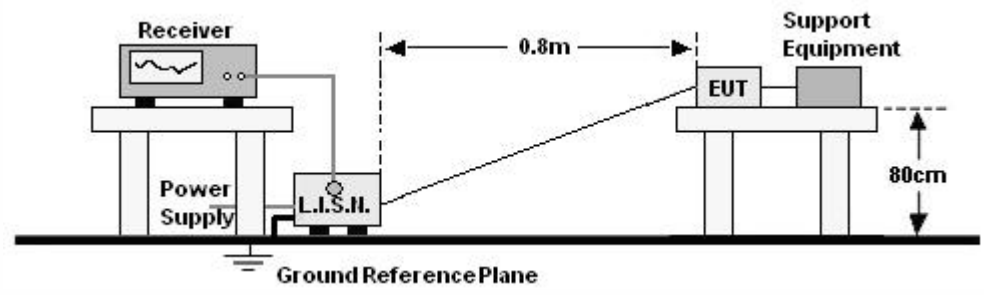
#### 4.1.2 TEST PROCEDURE

a. 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 equipmen/ powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. 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.
c. 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

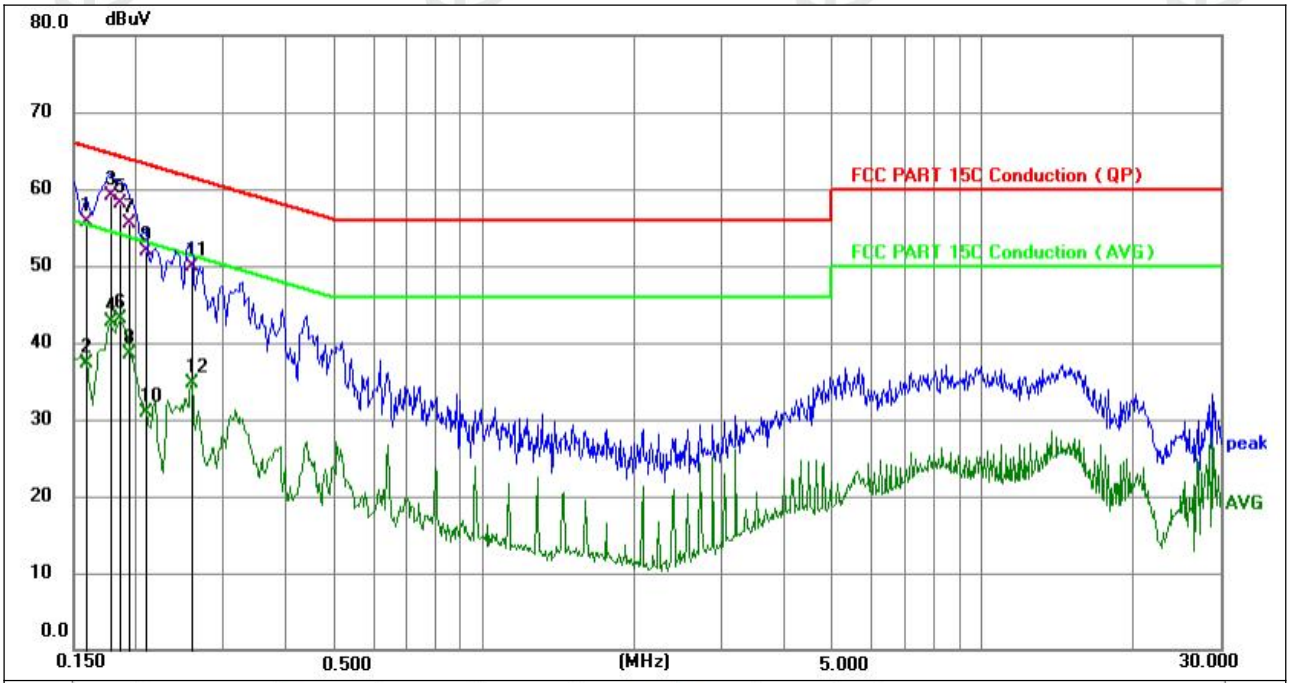



4.1.5 EUT OPERATING CONDITIONS

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

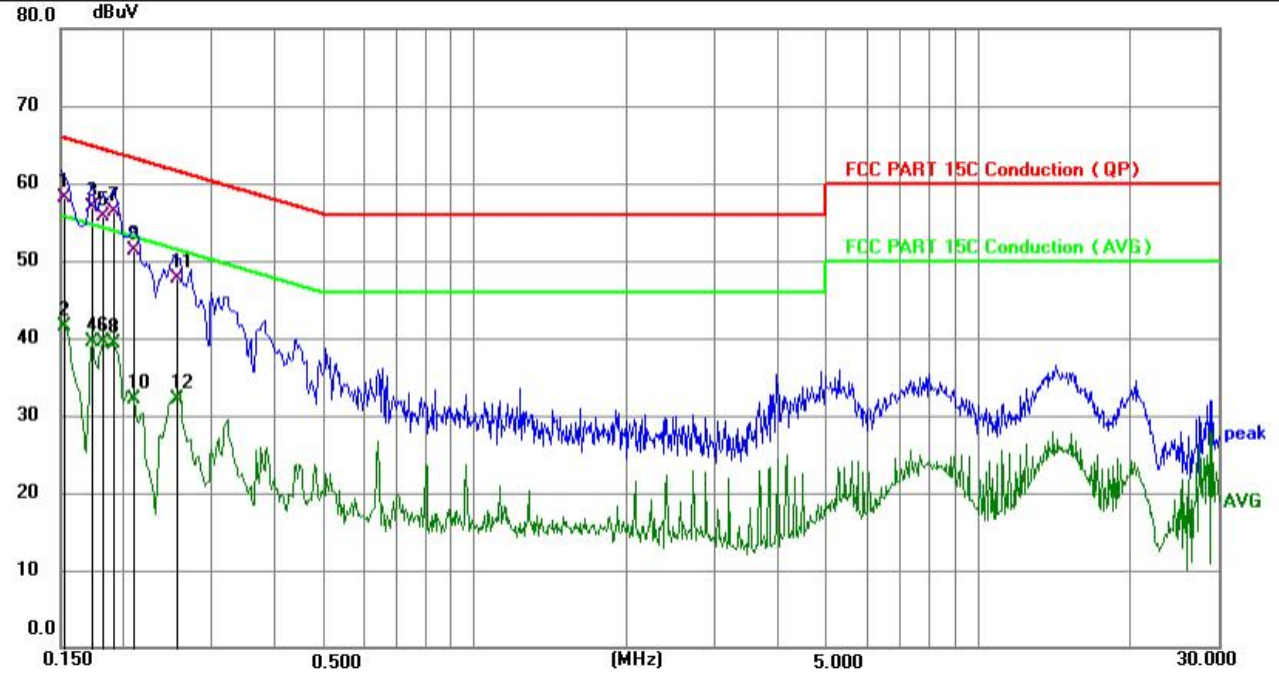
| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101kPa | Phase : | L |
| Test Voltage: | AC 120V/60Hz | | |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.1590 | 46.20 | 9.52 | 55.72 | 65.52 | -9.80 | QP | P | |
| 2 | 0.1590 | 27.71 | 9.52 | 37.23 | 55.52 | -18.29 | AVG | P | |
| 3 * | 0.1770 | 49.53 | 9.53 | 59.06 | 64.63 | -5.57 | QP | P | |
| 4 | 0.1770 | 33.15 | 9.53 | 42.68 | 54.63 | -11.95 | AVG | P | |
| 5 | 0.1860 | 48.55 | 9.53 | 58.08 | 64.21 | -6.13 | QP | P | |
| 6 | 0.1860 | 33.61 | 9.53 | 43.14 | 54.21 | -11.07 | AVG | P | |
| 7 | 0.1949 | 46.05 | 9.55 | 55.60 | 63.83 | -8.23 | QP | P | |
| 8 | 0.1949 | 28.96 | 9.55 | 38.51 | 53.83 | -15.32 | AVG | P | |
| 9 | 0.2084 | 42.28 | 9.55 | 51.83 | 63.27 | -11.44 | QP | P | |
| 10 | 0.2084 | 21.43 | 9.55 | 30.98 | 53.27 | -22.29 | AVG | P | |
| 11 | 0.2580 | 40.33 | 9.57 | 49.90 | 61.50 | -11.60 | QP | P | |
| 12 | 0.2580 | 25.15 | 9.57 | 34.72 | 51.50 | -16.78 | AVG | P | |

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

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




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.1524 | 48.55 | 9.52 | 58.07 | 65.87 | -7.80 | QP | P | |
| 2 | 0.1524 | 32.02 | 9.52 | 41.54 | 55.87 | -14.33 | AVG | P | |
| 3 | 0.1725 | 47.36 | 9.53 | 56.89 | 64.84 | -7.95 | QP | P | |
| 4 | 0.1725 | 29.93 | 9.53 | 39.46 | 54.84 | -15.38 | AVG | P | |
| 5 | 0.1815 | 46.13 | 9.53 | 55.66 | 64.42 | -8.76 | QP | P | |
| 6 | 0.1815 | 29.93 | 9.53 | 39.46 | 54.42 | -14.96 | AVG | P | |
| 7 * | 0.1905 | 46.68 | 9.54 | 56.22 | 64.01 | -7.79 | QP | P | |
| 8 | 0.1905 | 29.77 | 9.54 | 39.31 | 54.01 | -14.70 | AVG | P | |
| 9 | 0.2085 | 41.75 | 9.54 | 51.29 | 63.26 | -11.97 | QP | P | |
| 10 | 0.2085 | 22.49 | 9.54 | 32.03 | 53.26 | -21.23 | AVG | P | |
| 11 | 0.2535 | 38.17 | 9.56 | 47.73 | 61.64 | -13.91 | QP | P | |
| 12 | 0.2535 | 22.53 | 9.56 | 32.09 | 51.64 | -19.55 | AVG | P | |

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

## 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 Limi/

**Limi/ for frequency below 30MHz**

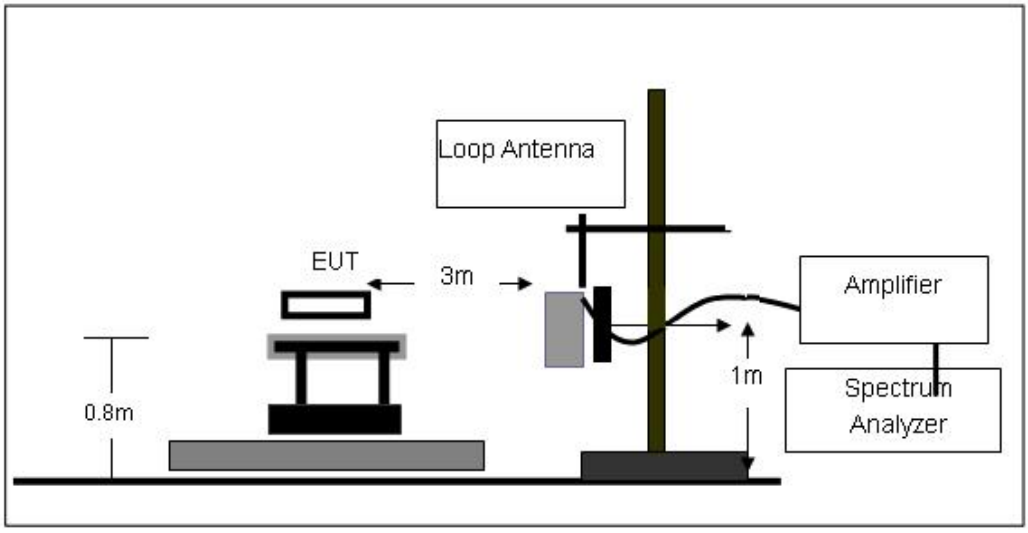
| Frequency | Limit (uV/m) | Measurement Distance(m) | Remark |
|---|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 | Quasi-peak Value |
| 0.490-1.705 | 24000/F(kHz) | 30 | Quasi-peak Value |
| 1.705-30 | 30 | 30 | Quasi-peak Value |

**Limi/ for frequency Above 30MHz**

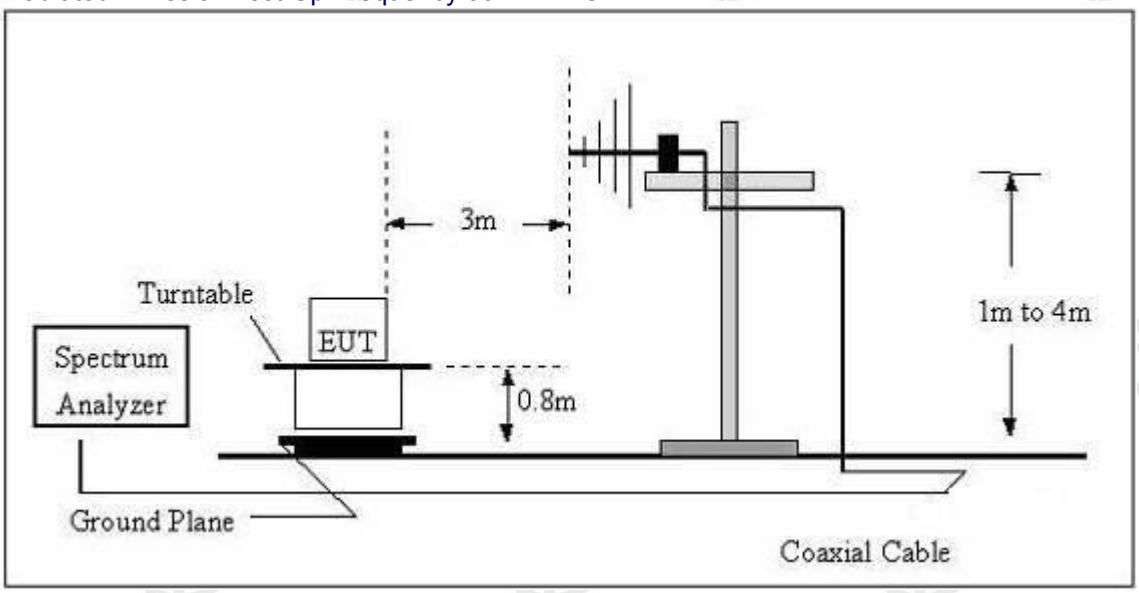
| Frequency | Limit (dBuV/m @3m) | Remark |
|---|---|---|
| 30MHz-88MHz | 40.00 | Quasi-peak Value |
| 88MHz-216MHz | 43.50 | Quasi-peak Value |
| 216MHz-960MHz | 46.00 | Quasi-peak Value |
| 960MHz-1GHz | 54.00 | Quasi-peak Value |
| Above 1GHz | 54.00 | Average Value |
| | 74.00 | Peak Value |

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 tes/ 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 limi/.

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

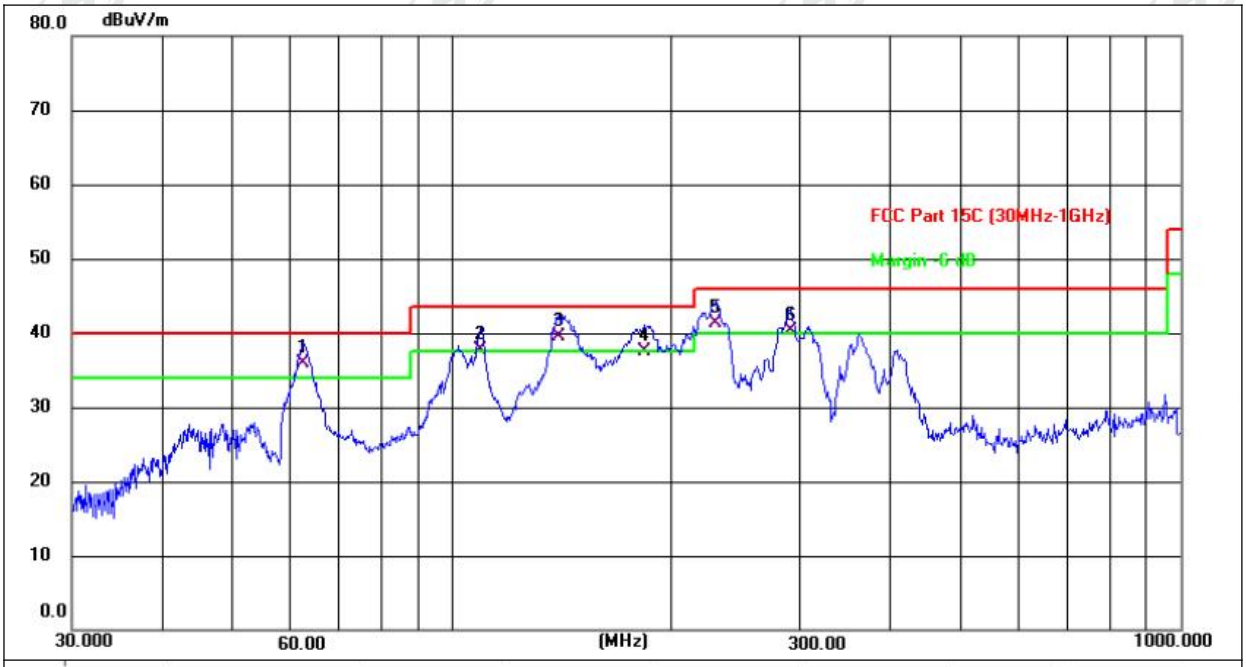
9 kHz~30 MHz

| Frequency | Meter Reading | Factor | Emission Level | Limi/ | Margin | Detector Type |
|---|---|---|---|---|---|---|
| (kHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 65.86 | 48.96 | 15.15 | 64.11 | 111.85 | -47.74 | AVG |
| 100.83 | 49.87 | 15.18 | 65.05 | 106.78 | -41.73 | AVG |
| 186.91 | 68.92 | 15.2 | 84.12 | 105.58 | -21.46 | AVG |
| 608.57 | 30.14 | 16.33 | 46.47 | 70.83 | -24.36 | QP |
| 998.52 | 30.57 | 16.87 | 47.44 | 68.37 | -20.93 | QP |
| 1207.55 | 21.47 | 17.62 | 39.09 | 65.29 | -26.2 | QP |

Note:
Pre-scan in the all of mode, the worst case in of was recorded.
Factor = antenna factor + cable loss – pre-amplifier.
Emission Level = Meter Reading - Factor
Margin = Emission Level- Limit.
The amplitude of emissions which are attenuated by more than 20db below the permissible value has no need to be reported.

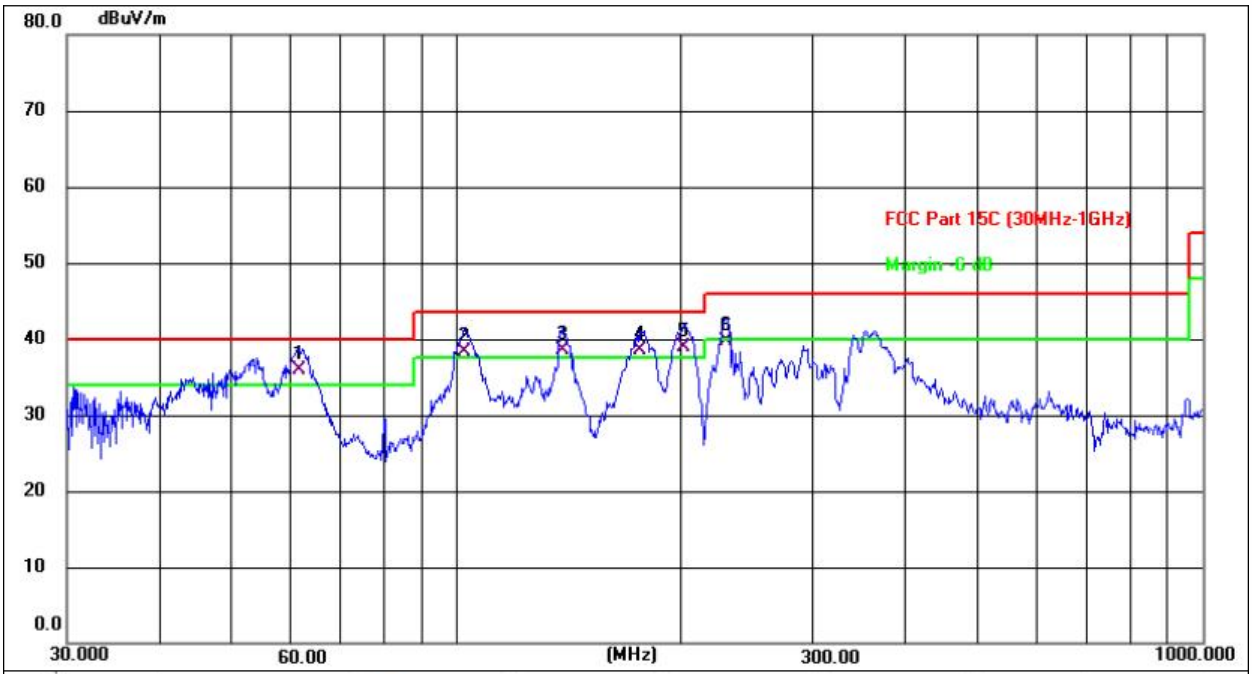
30MHz-1GHz

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




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 ! | 62.2128 | 46.41 | -10.52 | 35.89 | 40.00 | -4.11 | QP |
| 2 ! | 109.4116 | 49.49 | -11.80 | 37.69 | 43.50 | -5.81 | QP |
| 3 * | 139.8507 | 53.12 | -13.56 | 39.56 | 43.50 | -3.94 | QP |
| 4 ! | 183.2005 | 49.55 | -12.01 | 37.54 | 43.50 | -5.96 | QP |
| 5 ! | 230.0985 | 50.97 | -9.69 | 41.28 | 46.00 | -4.72 | QP |
| 6 ! | 291.0360 | 48.47 | -8.12 | 40.35 | 46.00 | -5.65 | 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 * | 61.3463 | 46.15 | -10.24 | 35.91 | 40.00 | -4.09 | QP |
| 2 ! | 102.3596 | 49.45 | -11.07 | 38.38 | 43.50 | -5.12 | QP |
| 3 ! | 138.3873 | 52.10 | -13.51 | 38.59 | 43.50 | -4.91 | QP |
| 4 ! | 175.6516 | 50.98 | -12.47 | 38.51 | 43.50 | -4.99 | QP |
| 5 ! | 201.3930 | 49.69 | -10.73 | 38.96 | 43.50 | -4.54 | QP |
| 6 | 230.0985 | 49.38 | -9.69 | 39.69 | 46.00 | -6.31 | QP |

Remarks:
1. Factor = Antenna Factor + Cable Loss – Preamplifier Factor
2. Level = Reading + Factor
3. Margin = Emission Level- Limit.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

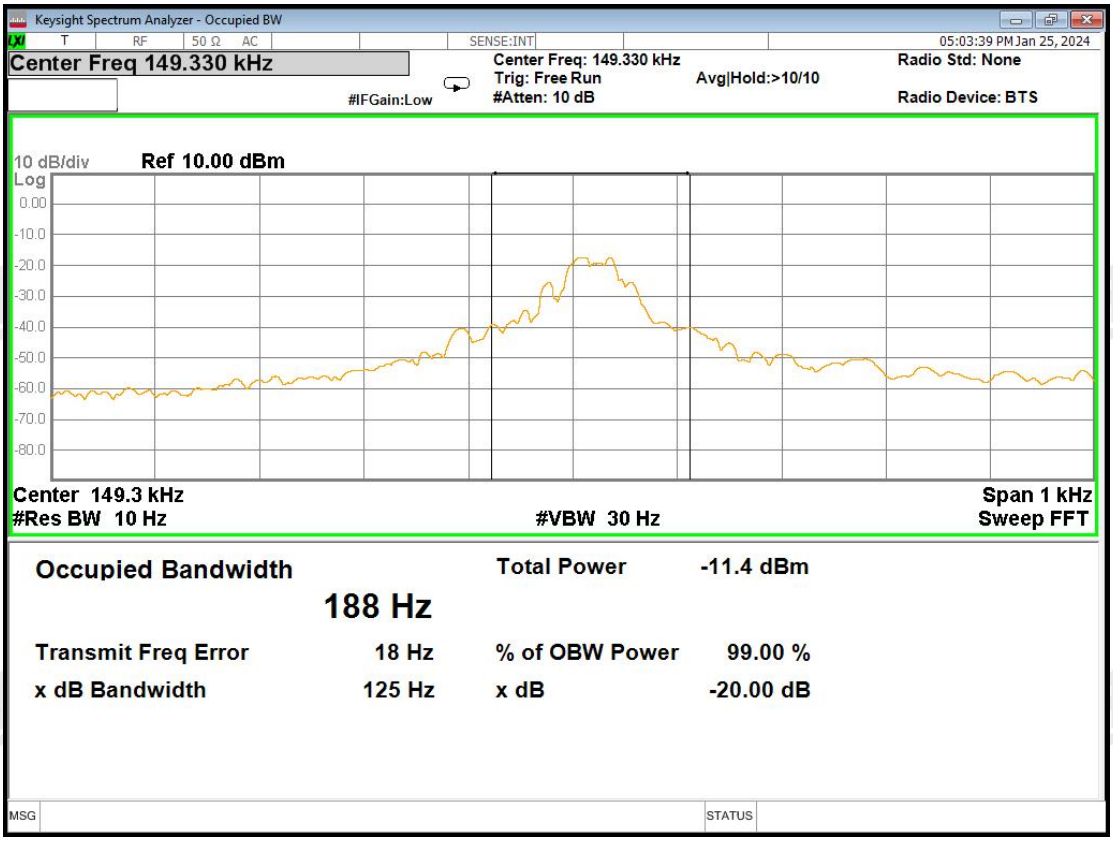
## 6. BANDWIDTH TEST

1. Set RBW = 10 Hz.
2. Set the video bandwidth (VBW) ≥ 3 x 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 point (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP

| | | | |
|---|---|---|---|
| Temperature: | 25.7 ℃ | Relative Humidity: | 55% |
| Pressure: | 101kPa | | |

| Frequency (KHz) | 20dB bandwidth (KHz) | Result |
|---|---|---|
| 149.330 | 0.125 | 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 Antenna, 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** ※※※※※