



FCC TEST REPORT

Test report**On Behalf of****Guangzhou EZVALO Technology Company Limited****For****Remote Control****Model No.: LRC2, LRC3, LRC4, LRC5, LRC6, LRC7, LRC8, LRC9, LRC10, LRC11, LRC12, LRC13, LRC14, LRC15, LRC16, LRC17, LRC18, LRC19, LRC20****FCC ID: 2AYQN-LRC2**

Prepared for : **Guangzhou EZVALO Technology Company Limited**
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Prepared By : **Shenzhen HUAK Testing Technology Co., Ltd.**
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Date of Test: **Dec. 08, 2023 ~ Dec. 15, 2023****Date of Report:** **Dec. 15, 2023****Report Number:** **HK2312085977-E**



TEST RESULT CERTIFICATION

Applicant's name : Guangzhou EZVALO Technology Company Limited
Address : Unit 1503 and 1504, 15/F, 166 Huangpu Park West Road, Huangpu District, Guangzhou, China

Manufacturer's Name : Guangzhou EZVALO Technology Company Limited
Address : Unit 1503 and 1504, 15/F, 166 Huangpu Park West Road, Huangpu District, Guangzhou, China

Product description

Trade Mark : N/A

Product name : Remote Control

Model and/or type reference : LRC2, LRC3, LRC4, LRC5, LRC6, LRC7, LRC8, LRC9, LRC10, LRC11, LRC12, LRC13, LRC14, LRC15, LRC16, LRC17, LRC18, LRC19, LRC20

Standards : FCC Rules and Regulations Part 15 Subpart C Section 15.249
ANSI C63.10: 2013

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Date of Test :

Date (s) of performance of tests : **Dec. 08, 2023 ~ Dec. 15, 2023**

Date of Issue : **Dec. 15, 2023**

Test Result : **Pass**

Testing Engineer : Len Liao

(Len Liao)

Technical Manager : Sliver Wan

(Sliver Wan)

Authorized Signatory : Jason Zhou

(Jason Zhou)



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**** Modified History ****

| Revision | Description | Issued Data | Remark |
|--------------|-----------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release | Dec. 14, 2023 | Jason Zhou |
| | | | |
| | | | |

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1. TEST SUMMARY

1.1 Test Procedures And Results

| DESCRIPTION OF TEST | | RESULT |
|--------------------------------|------------------------|-----------|
| CONDUCTED EMISSIONS TEST | § 15.207 | N/A |
| RADIATED EMISSION TEST | § 15.249 (a) / §15.209 | COMPLIANT |
| BAND EDGE | § 15.249 (d) / §15.209 | COMPLIANT |
| OCCUPIED BANDWIDTH MEASUREMENT | § 15.215 (c) | COMPLIANT |
| ANTENNA REQUIREMENT | § 15.203 | COMPLIANT |

1.2 Information of The Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3 Measurement Uncertainty

| | |
|---|---------------|
| Conducted Emission Expanded Uncertainty | = 2.23dB, k=2 |
| Radiated emission expanded uncertainty(9kHz-30MHz) | = 3.08dB, k=2 |
| Radiated emission expanded uncertainty(30MHz-1000MHz) | = 4.42dB, k=2 |
| Radiated emission expanded uncertainty(Above 1GHz) | = 4.06dB, k=2 |



2. GENERAL INFORMATION

2.1 General Description of EUT

| | |
|---------------------|---|
| Equipment | Remote Control |
| Model Name | LRC2 |
| Serial Model | LRC3, LRC4, LRC5, LRC6, LRC7, LRC8, LRC9, LRC10, LRC11, LRC12, LRC13, LRC14, LRC15, LRC16, LRC17, LRC18, LRC19, LRC20 |
| Model Difference | All model's the function, software and electric circuit are the same, only with model named different. Test sample model: LRC2. |
| FCC ID | 2AYQN-LRC2 |
| Antenna Type | PCB Antenna |
| Antenna Gain | -0.58dBi |
| Equipment | Remote Control |
| Operation frequency | 2420MHz |
| Number of Channels | 1CH |
| Modulation Type | GFSK |
| Power Source | DC 3V from Battery |
| Power Rating | DC 3V from Battery |
| Firmware Version | V2.0 |
| Hardware Version | V2.0 |

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2.2 Carrier Frequency of Channels

| Description of Channel: | |
|-------------------------|-----------------|
| Channel | Frequency (MHz) |
| 1 | 2420 |

2.3 Operation of EUT during testing

Operating Mode

The mode is used: **Transmitting mode**

Channel1: 2420MHz

2.4 Description of Test Setup

Operation of EUT during radiation testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed.

During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position



2.5 Description of Support Units

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. | Specification | Note |
|------|----------------|-----------|----------------|---------------|------|
| 1 | Remote Control | N/A | LRC2 | N/A | EUT |
| | | | | | |

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



2.6 Measurement Instruments List

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------------------------|-----------------|------------------|------------|---------------|---------------|
| 1. | L.I.S.N. Artificial Mains Network | R&S | ENV216 | HKE-002 | Feb. 17, 2023 | 1 Year |
| 2. | Receiver | R&S | ESR-7 | HKE-010 | Feb. 17, 2023 | 1 Year |
| 3. | RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Feb. 17, 2023 | 1 Year |
| 4. | Spectrum analyzer | R&S | FSP40 | HKE-025 | Feb. 17, 2023 | 1 Year |
| 5. | Spectrum analyzer | Agilent | N9020A | HKE-048 | Feb. 17, 2023 | 1 Year |
| 6. | Preamplifier | Schwarzbeck | BBV 9743 | HKE-006 | Feb. 17, 2023 | 1 Year |
| 7. | EMI Test Receiver | Rohde & Schwarz | ESCI 7 | HKE-010 | Feb. 17, 2023 | 1 Year |
| 8. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | HKE-012 | Feb. 17, 2023 | 1 Year |
| 9. | Loop Antenna | Schwarzbeck | FMZB 1519 B | HKE-014 | Feb. 17, 2023 | 1 Year |
| 10. | Horn Antenna | Schwarzbeck | 9120D | HKE-013 | Feb. 17, 2023 | 1 Year |
| 11. | Pre-amplifier | EMCI | EMC051845S E | HKE-015 | Feb. 17, 2023 | 1 Year |
| 12. | Pre-amplifier | Agilent | 83051A | HKE-016 | Feb. 17, 2023 | 1 Year |
| 13. | EMI Test Software EZ-EMC | Tonscend | JY3120-B Version | HKE-083 | N/A | N/A |
| 14. | Power Sensor | Agilent | E9300A | HKE-086 | Feb. 17, 2023 | 1 Year |
| 15. | Spectrum analyzer | Agilent | N9020A | HKE-048 | Feb. 17, 2023 | 1 Year |
| 16. | Signal generator | Agilent | N5182A | HKE-029 | Feb. 17, 2023 | 1 Year |
| 17. | Signal Generator | Agilent | 83630A | HKE-028 | Feb. 17, 2023 | 1 Year |
| 18. | Shielded room | Shiel Hong | 4*3*3 | HKE-039 | Dec. 09, 2021 | 3 Year |
| 19. | High gain antenna | Schwarzbeck | LB-180400KF | HKE-054 | Feb. 17, 2023 | 1 Year |
| 20. | 10dB Attenuator | Schwarzbeck | VTSD9561F | HKE-153 | Feb. 17, 2023 | 1 Year |

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3. CONDUCTED EMISSIONS TEST

3.1 Conducted Power Line Emission Limit

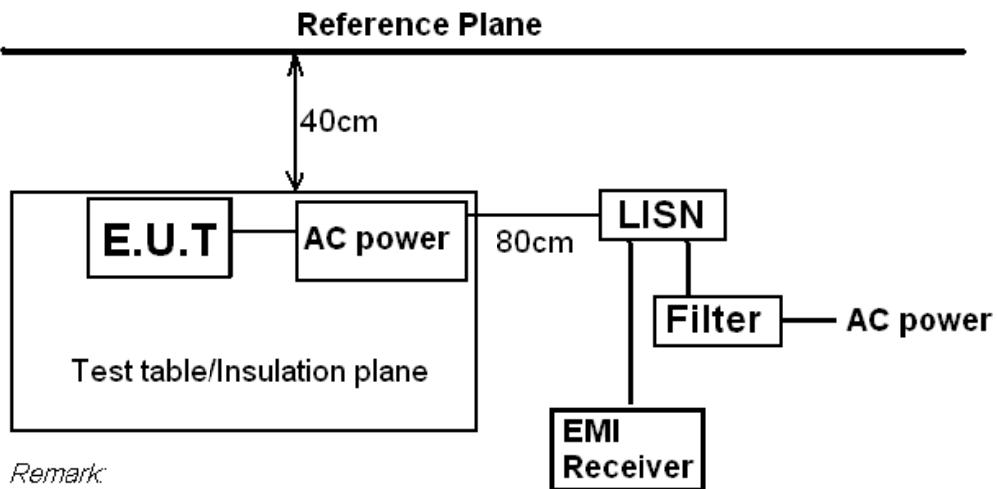
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

| Frequency (MHz) | Maximum RF Line Voltage (dB μ V) | | | |
|--------------------|--------------------------------------|------|---------|--------|
| | CLASS A | | CLASS B | |
| | Q.P. | Ave. | Q.P. | Ave. |
| 0.15 - 0.50 | 79 | 66 | 66-56* | 56-46* |
| 0.50 - 5.00 | 73 | 60 | 56 | 46 |
| 5.00 - 30.0 | 73 | 60 | 60 | 50 |

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



Remark:

E.U.T: Equipment Under Test

LISN: Line Impedance Stabilization Network

Test table height=0.8m

3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.



3.4 Test Result

Not applicable

Note: EUT powers supply by DC Power, so this test item not applicable.



4 RADIATED EMISSION TEST

4.1 Radiation Limit

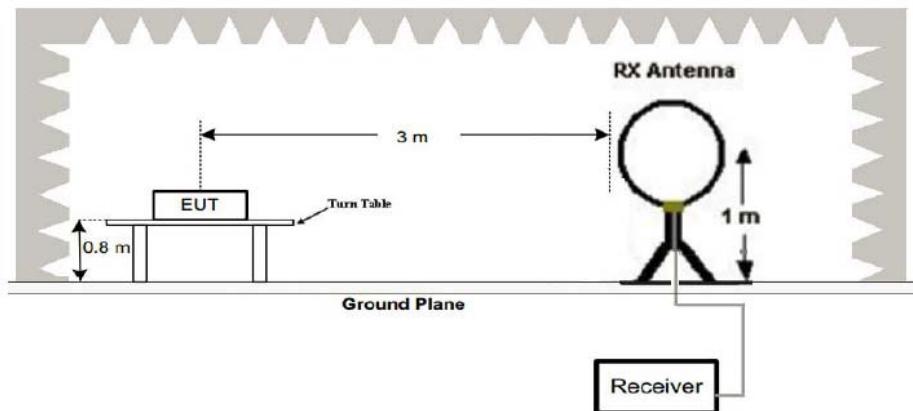
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency (MHz) | Distance (Meters) | Radiated (dB μ V/m) | Radiated (μ V/m) |
|-----------------|-------------------|-------------------------|-----------------------|
| 30-88 | 3 | 40 | 100 |
| 88-216 | 3 | 43.5 | 150 |
| 216-960 | 3 | 46 | 200 |
| Above 960 | 3 | 54 | 500 |

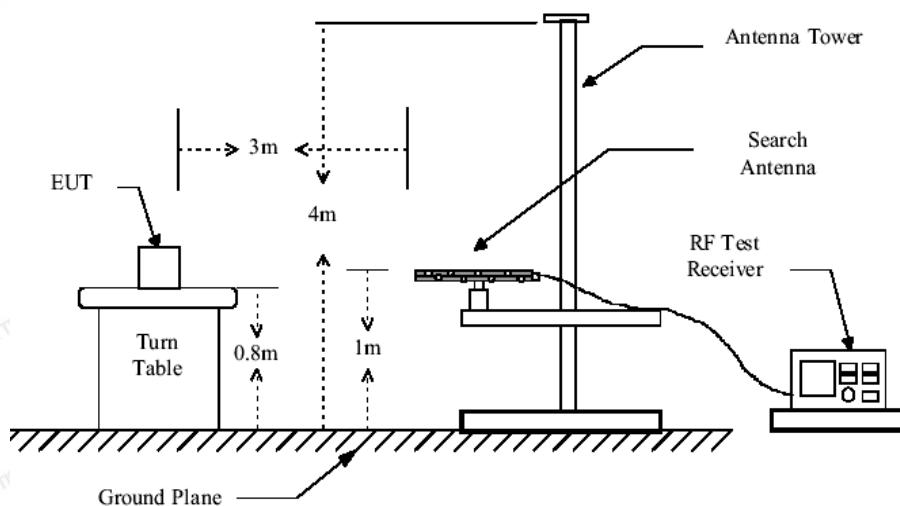
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

(1) Radiated Emission Test-Up Frequency Below 30MHz

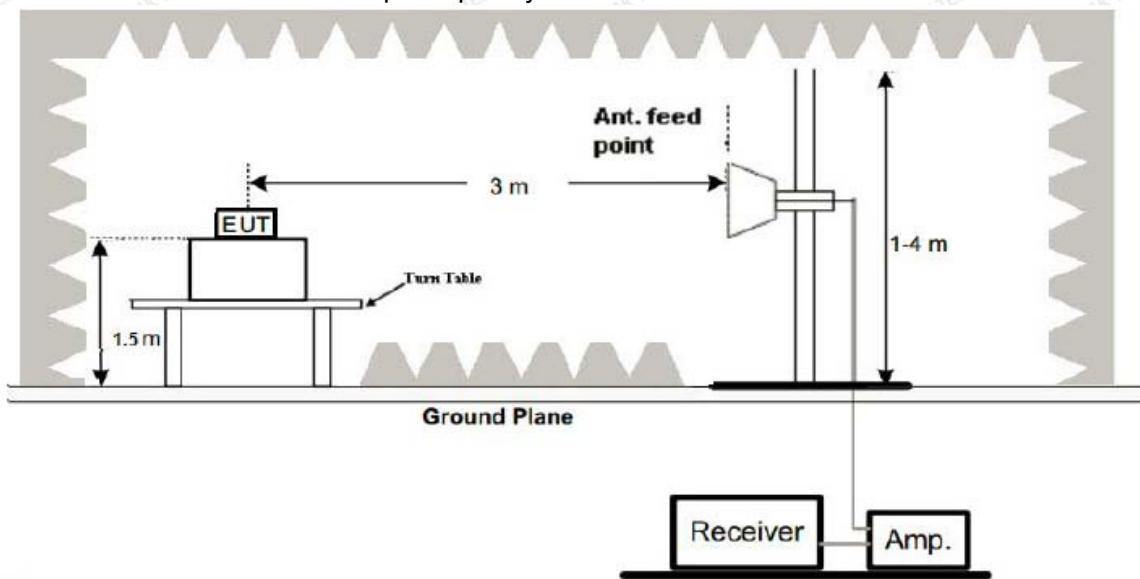


(2) Radiated Emission Test-Up Frequency 30MHz~1GHz





(3) Radiated Emission Test-Up Frequency Above 1GHz



4.3 Test Procedure

1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

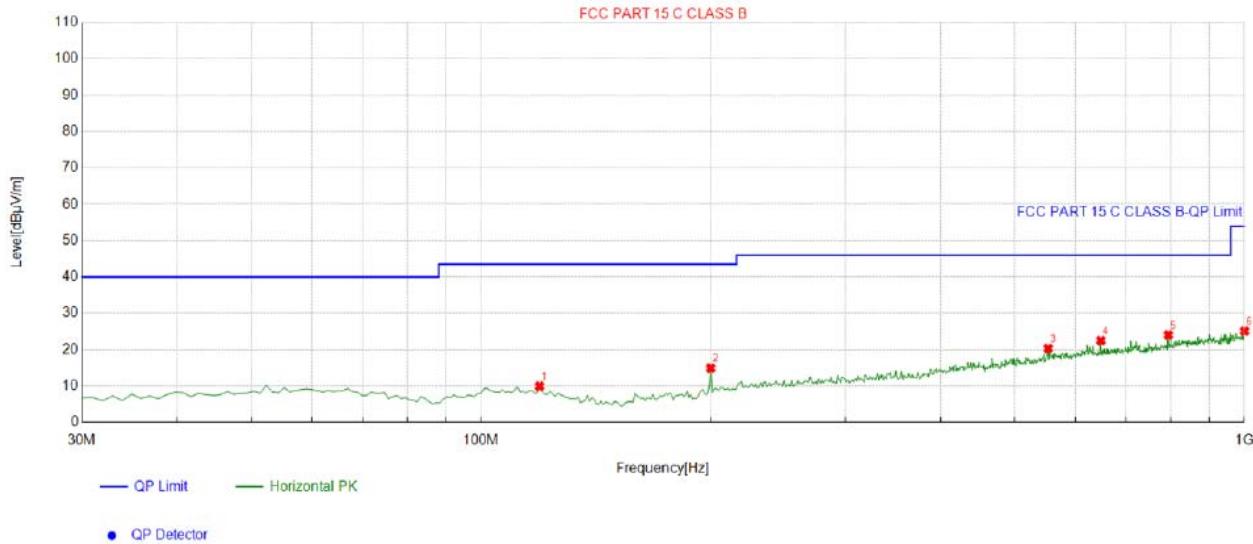
4.4 Test Result

PASS



Below 1GHz Test Results:

Antenna polarity: H

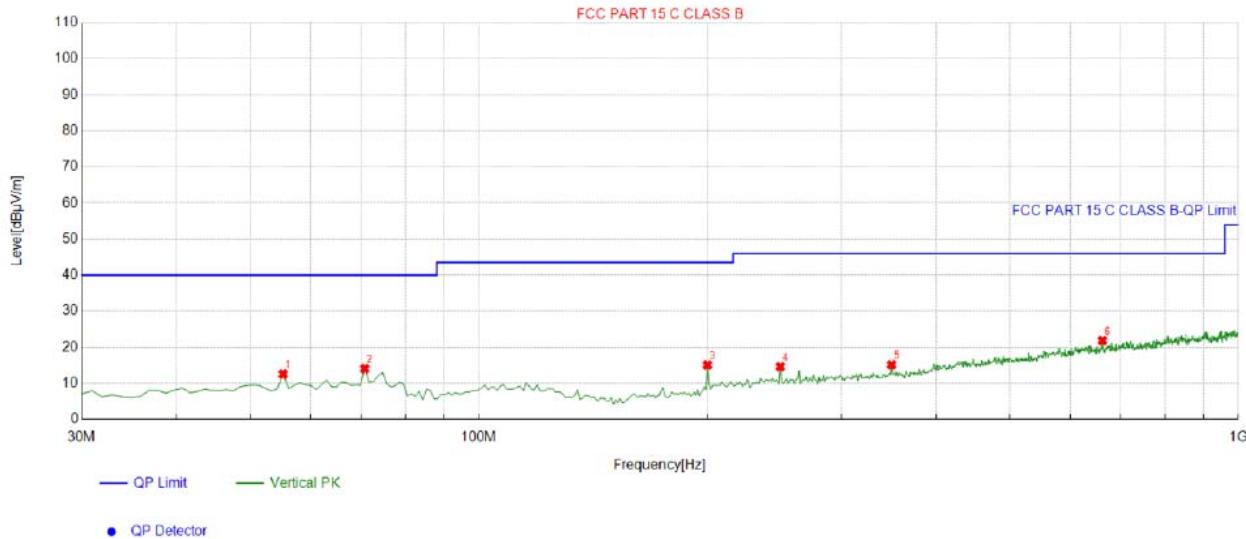


| Suspected List | | | | | | | | | |
|----------------|----------------|----------------|---------------------------|-------------------------|-------------------------|----------------|----------------|--------------|------------|
| NO. | Freq. [MHz] | Factor [dB] | Reading [dB μ V/m] | Level [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 119.32932 | -15.50 | 25.44 | 9.94 | 43.50 | 33.56 | 100 | 46 | Horizontal |
| 2 | 199.91992 | -15.27 | 30.20 | 14.93 | 43.50 | 28.57 | 100 | 230 | Horizontal |
| 3 | 553.35335 | -6.05 | 26.38 | 20.33 | 46.00 | 25.67 | 100 | 175 | Horizontal |
| 4 | 648.50850 | -4.43 | 26.93 | 22.50 | 46.00 | 23.50 | 100 | 203 | Horizontal |
| 5 | 795.12512 | -2.01 | 26.04 | 24.03 | 46.00 | 21.97 | 100 | 228 | Horizontal |
| 6 | 1000 | 0.64 | 24.46 | 25.10 | 54.00 | 28.90 | 100 | 327 | Horizontal |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin =Limit – Level



Antenna polarity: V



| Suspected List | | | | | | | | | |
|----------------|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 55.245245 | -14.32 | 26.88 | 12.56 | 40.00 | 27.44 | 100 | 143 | Vertical |
| 2 | 70.780781 | -16.20 | 30.26 | 14.06 | 40.00 | 25.94 | 100 | 174 | Vertical |
| 3 | 199.91992 | -15.27 | 30.35 | 15.08 | 43.50 | 28.42 | 100 | 6 | Vertical |
| 4 | 249.43943 | -13.15 | 27.76 | 14.61 | 46.00 | 31.39 | 100 | 193 | Vertical |
| 5 | 349.44944 | -11.23 | 26.38 | 15.15 | 46.00 | 30.85 | 100 | 162 | Vertical |
| 6 | 662.10210 | -4.39 | 26.25 | 21.86 | 46.00 | 24.14 | 100 | 356 | Vertical |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin =Limit – Level

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



Above 1 GHz Test Results:

CH Middle (2420MHz)

Horizontal:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 2420 | 101.32 | -5.71 | 95.61 | 114 | -18.39 | peak |
| 2420 | 82.35 | -5.71 | 76.64 | 94 | -17.36 | AVG |
| 4840 | 57.74 | -3.51 | 54.23 | 74 | -19.77 | peak |
| 4840 | 41.02 | -3.51 | 37.51 | 54 | -16.49 | AVG |
| 7260 | 55.51 | -0.82 | 54.69 | 74 | -19.31 | peak |
| 7260 | 37.33 | -0.82 | 36.51 | 54 | -17.49 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 2420 | 99.89 | -5.71 | 94.18 | 114 | -19.82 | peak |
| 2420 | 79.16 | -5.71 | 73.45 | 94 | -20.55 | AVG |
| 4840 | 56.68 | -3.51 | 53.17 | 74 | -20.83 | peak |
| 4840 | 36.12 | -3.51 | 32.61 | 54 | -21.39 | AVG |
| 7260 | 54.47 | -0.82 | 53.65 | 74 | -20.35 | peak |
| 7260 | 36.99 | -0.82 | 36.17 | 54 | -17.83 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark :

- (1) Measuring frequencies from 1 GHz to the 25 GHz .
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.



5 BAND EDGE

5.1 Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 1MHz and VBW to 3MHz, to measure the conducted peak band edge.



5.3 Test Result

PASS**Radiated Band Edge Test:****Operation Mode: TX CH Low (2420MHz)****Horizontal (Worst case)**

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------------|--------|---------------|
| (MHz) | (dB μ V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) | |
| 2310 | 54.01 | -5.81 | 48.2 | 74 | -25.8 | peak |
| 2310 | / | -5.81 | / | 54 | / | AVG |
| 2390 | 55.25 | -5.84 | 49.41 | 74 | -24.59 | peak |
| 2390 | / | -5.84 | / | 54 | / | AVG |
| 2400 | 55.72 | -5.84 | 49.88 | 74 | -24.12 | peak |
| 2400 | / | -5.84 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------------|--------|---------------|
| (MHz) | (dB μ V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) | |
| 2310 | 56.15 | -5.81 | 50.34 | 74 | -23.66 | peak |
| 2310 | / | -5.81 | / | 54 | / | AVG |
| 2390 | 55.92 | -5.84 | 50.08 | 74 | -23.92 | peak |
| 2390 | / | -5.84 | / | 54 | / | AVG |
| 2400 | 54.62 | -5.84 | 48.78 | 74 | -25.22 | peak |
| 2400 | / | -5.84 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Setup

Same as Radiated Emission Measurement

6.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on ANSI C63.10 section 6.9.2: RBW= 150KHz. VBW= 470KHz, Span=25MHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

6.4 Test Result

PASS

| Frequency | 20dB Bandwidth (MHz) | Result |
|-----------|----------------------|-------------|
| 2420 MHz | 11.16 | PASS |

CH: 2420MHz



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7 ANTENNA REQUIREMENT

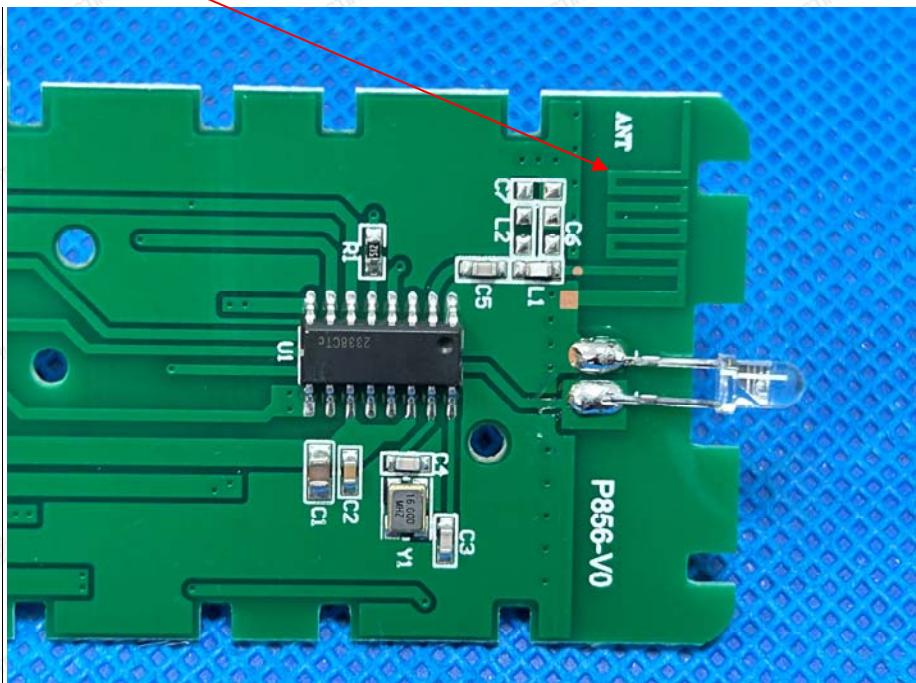
Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

Antenna Connected Construction

The antenna used in this product is a PCB Antenna which permanently attached. It conforms to the standard requirements, The directional gains of antenna used for transmitting is -0.58dBi.

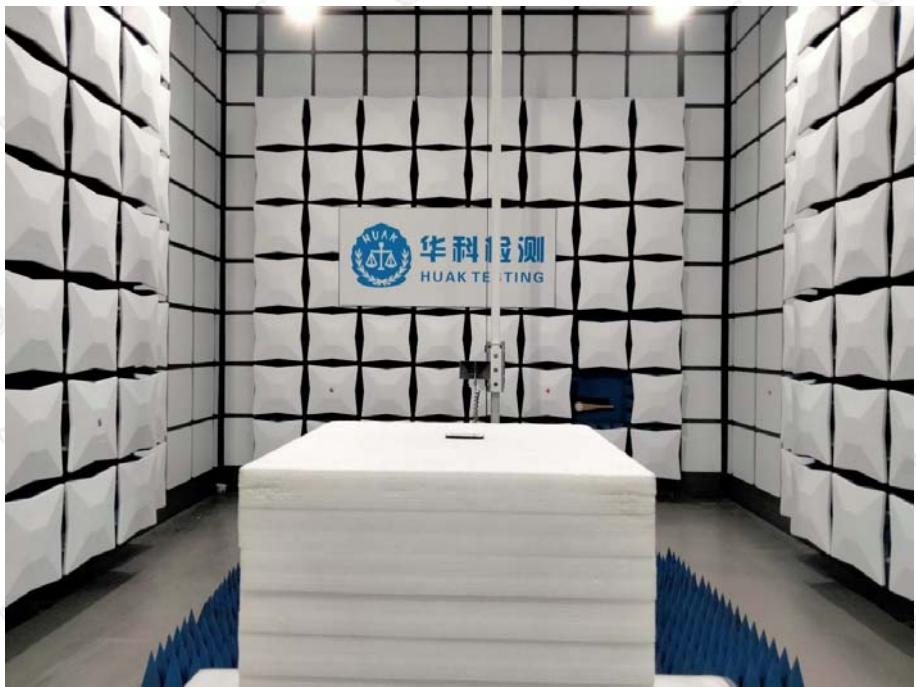
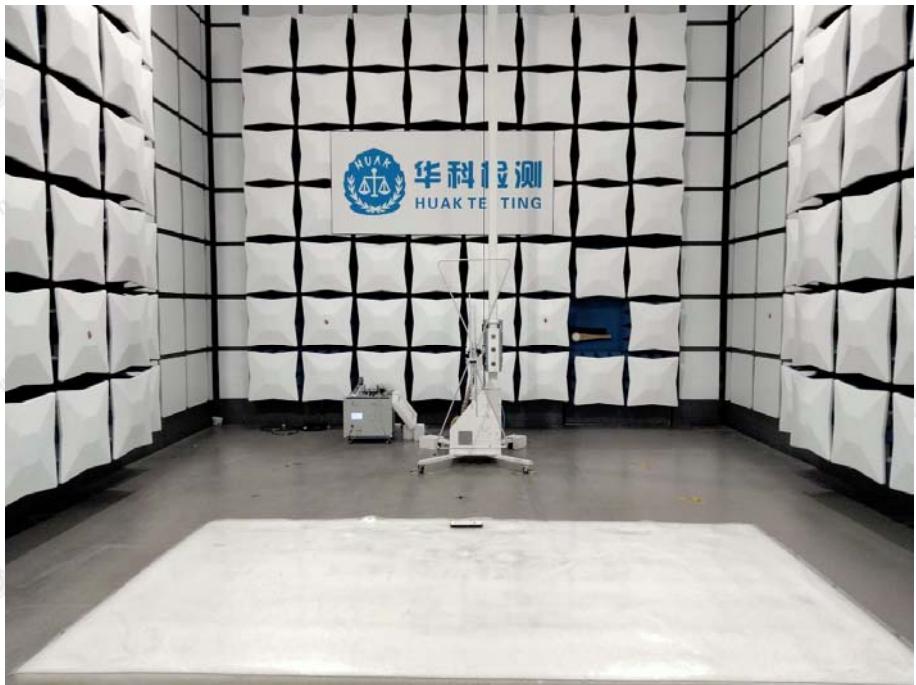
ANTENNA





8 PHOTOGRAPH OF TEST

8.1 Radiated Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>

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**9 PHOTOS OF THE EUT**

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----

