



**Shenzhen GUOREN Certification Technology Service Co., Ltd.**

101#, Building K & Building T, The Second Industrial Zone, Jiazitang Community,  
Fenghuang Street, Guangming District, Shenzhen, China

## FCC PART 15 SUBPART C TEST REPORT

### FCC Rules and Regulations Part PART 15.249

**Report Reference No.....: GRCTR220802001-01**

**FCC ID.....: 2A6TG-H200**

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Date of issue.....: Aug. 18, 2022

**Testing Laboratory Name.....: Shenzhen GUOREN Certification Technology Service Co., Ltd.**

Address.....: 101#, Building K & Building T, The Second Industrial Zone,  
Jiazitang Community, Fenghuang Street, Guangming District,  
Shenzhen, China

**Applicant's name.....: Noorio Innovations Limited**

Address.....: LEVEL 54, HOPEWELL CENTRE, 183 QUEEN'S ROAD EAST,  
HongKong

**Test specification.....:**

Standard.....: **FCC Rules and Regulations Part PART 15.249**

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**Test item description.....: Contact Sensor**

Trade Mark.....: /

Manufacturer.....: **Noorio Innovations Limited**

Model/Type reference.....: H200

Listed Models .....: /

Ratings.....: DC 3.0V From Battery

Modulation .....: ASK

Frequency.....: 915MHz

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

**T E S T   R E P O R T**

Equipment under Test : Contact Sensor

Model /Type : H200

Listed Models : /

**Applicant : Noorio Innovations Limited**

Address : LEVEL 54, HOPEWELL CENTRE, 183 QUEEN'S ROAD EAST,  
HongKong

**Manufacturer : Noorio Innovations Limited**

Address : LEVEL 54, HOPEWELL CENTRE, 183 QUEEN'S ROAD EAST,  
HongKong

|                     |             |
|---------------------|-------------|
| <b>Test Result:</b> | <b>PASS</b> |
|---------------------|-------------|

The test report merely corresponds to the test sample.  
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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# **1 TEST STANDARDS**

The tests were performed according to following standards:

[FCC Rules Part 15.249](#): Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

[ANSI C63.10:2013](#) : American National Standard for Testing Unlicensed Wireless Devices

[ANSI C63.4: 2014](#) American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

## 2 SUMMARY

### 2.1 General Remarks

|                                |   |               |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | Aug. 03, 2022 |
| Testing commenced on           | : | Aug. 03, 2022 |
| Testing concluded on           | : | Aug. 18, 2022 |

### 2.2 Product Description

|                       |  |
|-----------------------|--|
| Product Name:         | Contact Sensor   |
| Model/Type reference: | H200   |
| Testing sample ID:    | GRCTR220802001-1# (Engineer sample),<br>GRCTR220802001-2#(Normal sample) |
| Power supply:         | DC 3.0V From Battery   |
| Operation frequency:  | 915MHz   |
| Modulation:           | ASK  |
| Antenna Type:         | Spring antenna   |
| Antenna gain:         | 1.0 dBi  |

### 2.3 Equipment Under Test

#### Power supply system utilised

|                      |   |   |                                   |
|----------------------|---|---|-----------------------------------|
| Power supply voltage | : | <input type="radio"/> 230V / 50 Hz                                | <input type="radio"/> 120V / 60Hz |
|                      |   | <input type="radio"/> 12 V DC                                     | <input type="radio"/> 24 V DC     |
|                      |   | <input checked="" type="radio"/> Other (specified in blank below) |                                   |

DC 3.0V From Battery

### 2.4 Short description of the Equipment under Test (EUT)

This is a Contact Sensor.

For more details, refer to the user's manual of the EUT.

### 2.5 Block Diagram of Test Setup



### 2.6 EUT operation mode

The Applicant provides test software to control the EUT for staying in continuous transmitting and receiving mode for testing. There is 1 channels provided to the EUT. Channel 00 was selected to test.

| Channel | Frequency(MHz) |
|---------|----------------|
| 00      | 915            |

## 2.7 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

| Description | Manufacturer | Model | Technical Parameters | Certificate | Provided by |
|-------------|--------------|-------|----------------------|-------------|-------------|
| /           | /            | /     | /                    | /           | /           |
| /           | /            | /     | /                    | /           | /           |

## 2.8 Modifications

No modifications were implemented to meet testing criteria.

### **3 TEST ENVIRONMENT**

#### **3.1 Address of the test laboratory**

**Shenzhen GUOREN Certification Technology Service Co., Ltd.**

101#, Building K & Building T, The Second Industrial Zone, Jiazitang Community, Fenghuang Street, Guangming District, Shenzhen, China

#### **3.2 Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

**FCC-Registration No.: 920798    Designation Number: CN1304**

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

**A2LA-Lab Cert. No.: 6202.01**

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

**ISED#: 27264    CAB identifier: CN0115**

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

**CNAS-Lab Code: L15631**

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories for the Competence of Testing and Calibration Laboratories.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

#### **3.3 Environmental conditions**

During the measurement the environmental conditions were within the listed ranges:

|                    |              |
|--------------------|--------------|
| Normal Temperature | 15-35 °C     |
| Relative Humidity  | 30-60 %      |
| Air Pressure       | 950-1050mbar |

### 3.4 Summary of measurement results

| FCC Requirements   |                               |      |
|--------------------|-------------------------------|------|
| FCC Part 15.249(a) | Field Strength of Fundamental | PASS |
| FCC Part 15.209    | Spurious Emission             | PASS |
| FCC Part 15.209    | Band edge                     | PASS |
| FCC Part 15.215(c) | 20dB bandwidth                | PASS |
| FCC Part 15.207    | Conducted Emission            | N/A  |
| FCC Part 15.203    | Antenna Requirement           | PASS |

Remark: The measurement uncertainty is not included in the test result.

### 3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen GUOREN Certification Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GUOREN Certification Technology Service Co., Ltd.:

| Test                  | Range      | Measurement Uncertainty | Notes |
|-----------------------|------------|-------------------------|-------|
| Radiated Emission     | 30~1000MHz | 4.06 dB                 | (1)   |
| Radiated Emission     | 1~18GHz    | 5.14 dB                 | (1)   |
| Radiated Emission     | 18-40GHz   | 5.38 dB                 | (1)   |
| Conducted Disturbance | 0.15~30MHz | 2.14 dB                 | (1)   |

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .



### 3.6 Equipments Used during the Test

| Test Equipment             | Manufacturer           | Model No.   | Equipment No. | Calibration Date | Calibration Due Date |
|----------------------------|------------------------|-------------|---------------|------------------|----------------------|
| LISN                       | R&S                    | ENV216      | GRCTEE009     | 2021/10/30       | 2022/10/29           |
| LISN                       | R&S                    | ENV216      | GRCTEE010     | 2021/10/30       | 2022/10/29           |
| EMI Test Receiver          | R&S                    | ESPI        | GRCTEE017     | 2021/10/30       | 2022/10/29           |
| EMI Test Receiver          | R&S                    | ESCI        | GRCTEE008     | 2021/10/30       | 2022/10/29           |
| Spectrum Analyzer          | Agilent                | N9020A      | GRCTEE002     | 2021/10/30       | 2022/10/29           |
| Spectrum Analyzer          | R&S                    | FSP         | GRCTEE003     | 2021/10/20       | 2022/10/19           |
| Vector Signal generator    | Agilent                | N5181A      | GRCTEE007     | 2021/10/30       | 2022/10/29           |
| Analog Signal Generator    | R&S                    | SML03       | GRCTEE006     | 2021/10/30       | 2022/10/29           |
| Climate Chamber            | QIYA                   | LCD-9530    | GRCTES016     | 2021/10/30       | 2022/10/29           |
| Ultra-Broadband Antenna    | Schwarzbeck            | VULB9163    | GRCTEE018     | 2020/10/25       | 2023/10/24           |
| Horn Antenna               | Schwarzbeck            | BBHA 9120D  | GRCTEE019     | 2020/10/25       | 2023/10/24           |
| Loop Antenna               | Zhinan                 | ZN30900C    | GRCTEE020     | 2020/10/25       | 2023/10/24           |
| Horn Antenna               | Beijing Hangwei Dayang | OBH100400   | GRCTEE049     | 2021/1/18        | 2024/1/17            |
| Amplifier                  | Schwarzbeck            | BBV 9745    | GRCTEE021     | 2021/10/30       | 2022/10/29           |
| Amplifier                  | Taiwan chengyi         | EMC051845B  | GRCTEE022     | 2021/10/30       | 2022/10/29           |
| Temperature/Humidity Meter | Huaguan                | HG-308      | GRCTES037     | 2021/10/30       | 2022/10/29           |
| Directional coupler        | NARDA                  | 4226-10     | GRCTEE004     | 2021/10/30       | 2022/10/29           |
| High-Pass Filter           | XingBo                 | XBLBQ-GTA18 | GRCTEE053     | 2021/10/30       | 2022/10/29           |
| High-Pass Filter           | XingBo                 | XBLBQ-GTA27 | GRCTEE054     | 2021/10/30       | 2022/10/29           |
| Automated filter bank      | Tonscend               | JS0806-F    | GRCTEE055     | 2021/10/30       | 2022/10/29           |
| Power Sensor               | Agilent                | U2021XA     | GRCTEE070     | 2021/10/30       | 2022/10/29           |
| EMI Test Software          | ROHDE & SCHWARZ        | ESK1-V1.71  | GRCTEE060     | N/A              | N/A                  |
| EMI Test Software          | Fera                   | EZ-EMC      | GRCTEE061     | N/A              | N/A                  |

## 4 TEST CONDITIONS AND RESULTS

### 4.1 AC Power Conducted Emission

#### TEST CONFIGURATION



#### 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 C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/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.
- 8 During the above scans, the emissions were maximized by cable manipulation.

#### AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

| Frequency range (MHz) | Limit (dBuV) |           |
|-----------------------|--------------|-----------|
|                       | Quasi-peak   | Average   |
| 0.15-0.5              | 66 to 56*    | 56 to 46* |
| 0.5-5                 | 56           | 46        |
| 5-30                  | 60           | 50        |

\* Decreases with the logarithm of the frequency.

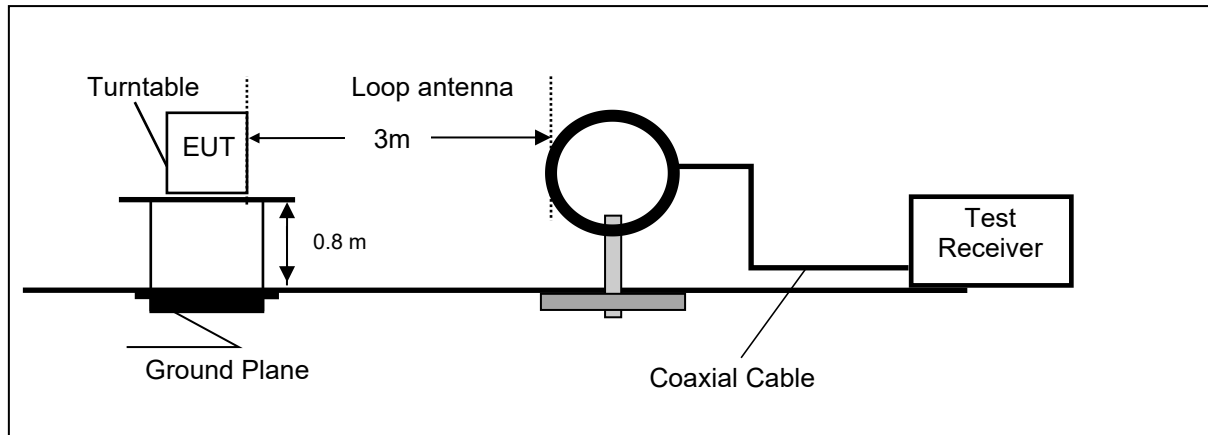
#### TEST RESULTS

The EUT is powered by the Battery, so this test item is not applicable for the EUT.

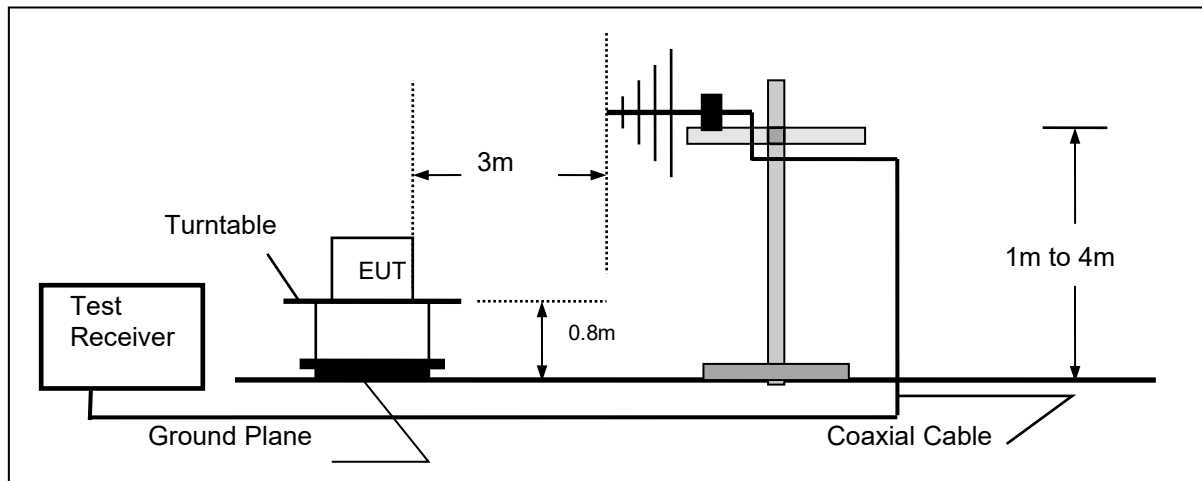
## 4.2 Radiated Emission

### TEST CONFIGURATION

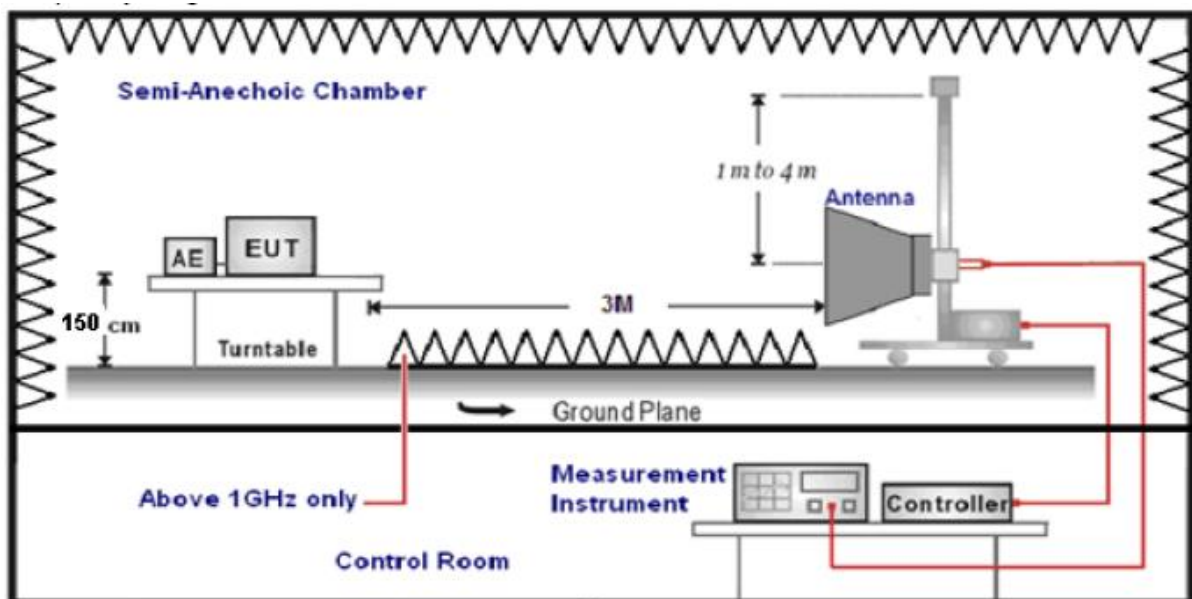
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



**TEST PROCEDURE**

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 26MHz and maximum operation frequency was 1910MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type          | Test Distance |
|----------------------|----------------------------|---------------|
| 9KHz-30MHz           | Active Loop Antenna        | 3             |
| 30MHz-1GHz           | Ultra-Broadband Antenna    | 3             |
| 1GHz-18GHz           | Double Ridged Horn Antenna | 3             |
| 18GHz-25GHz          | Horn Antenna               | 1             |

7. Setting test receiver/spectrum as following table states:

| Test Frequency range | Test Receiver/Spectrum Setting  | Detector |
|----------------------|---|----------|
| 9KHz-150KHz          | RBW=200Hz/VBW=3KHz, Sweep time=Auto   | QP       |
| 150KHz-30MHz         | RBW=9KHz/VBW=100KHz, Sweep time=Auto  | QP       |
| 30MHz-1GHz           | RBW=120KHz/VBW=1000KHz, Sweep time=Auto   | QP       |
| 1GHz-40GHz           | Peak Value: RBW=1MHz/VBW=3MHz,<br>Sweep time=Auto<br>Average Value: RBW=1MHz/VBW=10Hz,<br>Sweep time=Auto | Peak     |

**Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

|                           |  |
|---------------------------|--|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |
| AF = Antenna Factor       |  |

$$\text{Transd} = AF + CL - AG$$

**RADIATION LIMIT**

According 15.249, the field strength of emissions from intentional radiators operated within 902MHz-928 MHz shall not exceed 94dBμV/m (50mV/m):

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.

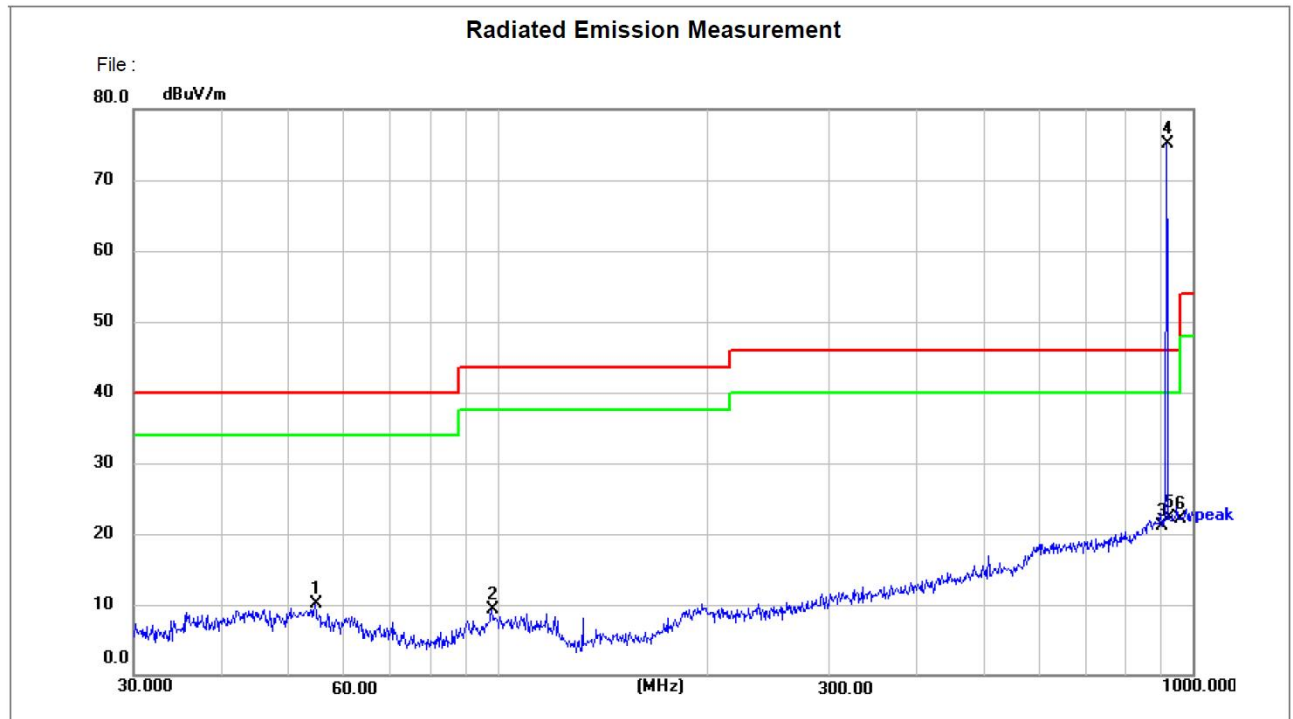
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

| Frequency (MHz) | Distance (Meters) | Radiated (dBμV/m)                            | Radiated (μV/m)       |
|-----------------|-------------------|--|-----------------------|
| 0.009-0.49      | 3                 | $20\log(2400/F(\text{KHz})) + 40\log(300/3)$ | $2400/F(\text{KHz})$  |
| 0.49-1.705      | 3                 | $20\log(24000/F(\text{KHz})) + 40\log(30/3)$ | $24000/F(\text{KHz})$ |
| 1.705-30        | 3                 | $20\log(30) + 40\log(30/3)$                  | 30                    |
| 30-88           | 3                 | 40.0   | 100                   |
| 88-216          | 3                 | 43.5   | 150                   |
| 216-960         | 3                 | 46.0   | 200                   |
| Above 960       | 3                 | 54.0   | 500                   |

**TEST RESULTS**

Remark: Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

**For 30MHz-1GHz****Horizontal**

Site LAB

Polarization: **Horizontal**

Temperature: 24.5(C)

Limit: FCC Part15 RE\_30-1000MHz

Power: DC3V

Humidity: 52 %

EUT:

Distance: 3m

M/N: HC200

Mode:

Note:

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 54.6429         | 28.19          | -18.08        | 10.11          | 40.00          | -29.89      | peak     | 100         | 227            | P   |        |
| 2   | 98.1419         | 28.49          | -19.28        | 9.21           | 43.50          | -34.29      | peak     | 100         | 325            | P   |        |
| 3   | 902.0000        | 28.25          | -7.15         | 21.10          | 46.00          | -24.90      | peak     | 200         | 64             | P   |        |
| 4 * | 916.0685        | 82.23          | -7.04         | 75.19          | 94.00          | -18.81      | peak     | 100         | 182            | P   |        |
| 5   | 928.0000        | 29.22          | -6.96         | 22.26          | 46.00          | -23.74      | peak     | 100         | 253            | P   |        |
| 6   | 960.0000        | 28.70          | -6.56         | 22.14          | 54.00          | -31.86      | peak     | 100         | 172            | P   |        |

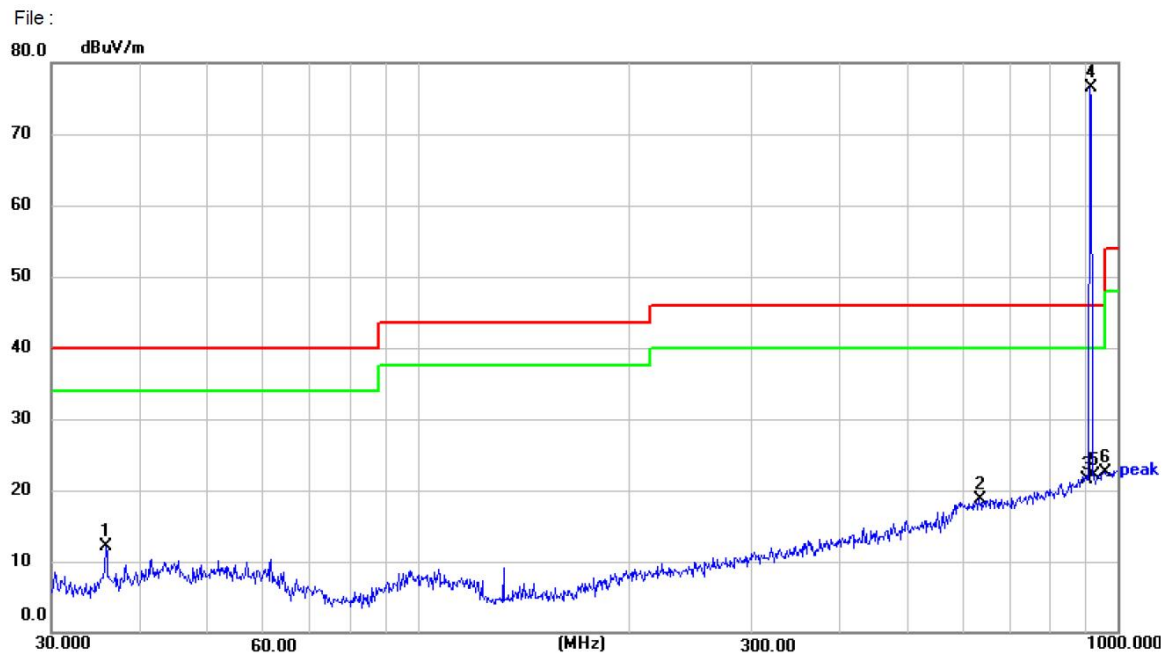
Note:1).Level (dBuV/m)= Reading (dBuV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBuV/m) - Level (dBuV/m)

## Vertical

## Radiated Emission Measurement



Site LAB

Polarization: **Vertical**

Temperature: 24.5(C)

Limit: FCC Part15 RE\_30-1000MHz

Power: DC3V

Humidity: 52 %

EUT:

Distance: 3m

M/N: HC200

Mode:

Note:

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 35.8746         | 31.64          | -19.57        | 12.07          | 40.00          | -27.93      | peak     | 100         | 219            | P   |        |
| 2   | 633.9073        | 29.34          | -10.55        | 18.79          | 46.00          | -27.21      | peak     | 200         | 351            | P   |        |
| 3   | 902.0000        | 28.66          | -7.15         | 21.51          | 46.00          | -24.49      | peak     | 100         | 84             | P   |        |
| 4 * | 916.0685        | 83.61          | -7.04         | 76.57          | 94.00          | -17.43      | peak     | 200         | 175            | P   |        |
| 5   | 928.0000        | 29.13          | -6.56         | 22.57          | 46.00          | -23.43      | peak     | 100         | 262            | P   |        |
| 6   | 960.0000        | 29.09          | -6.96         | 22.13          | 54.00          | -31.87      | peak     | 100         | 185            | P   |        |

Note:1).Level (dBuV/m)= Reading (dBuV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBuV/m) - Level (dBuV/m)



### 4.3 Occupied Bandwidth Measurement

#### TEST CONFIGURATION



#### TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 51KHz RBW and 150KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

#### LIMIT

N/A

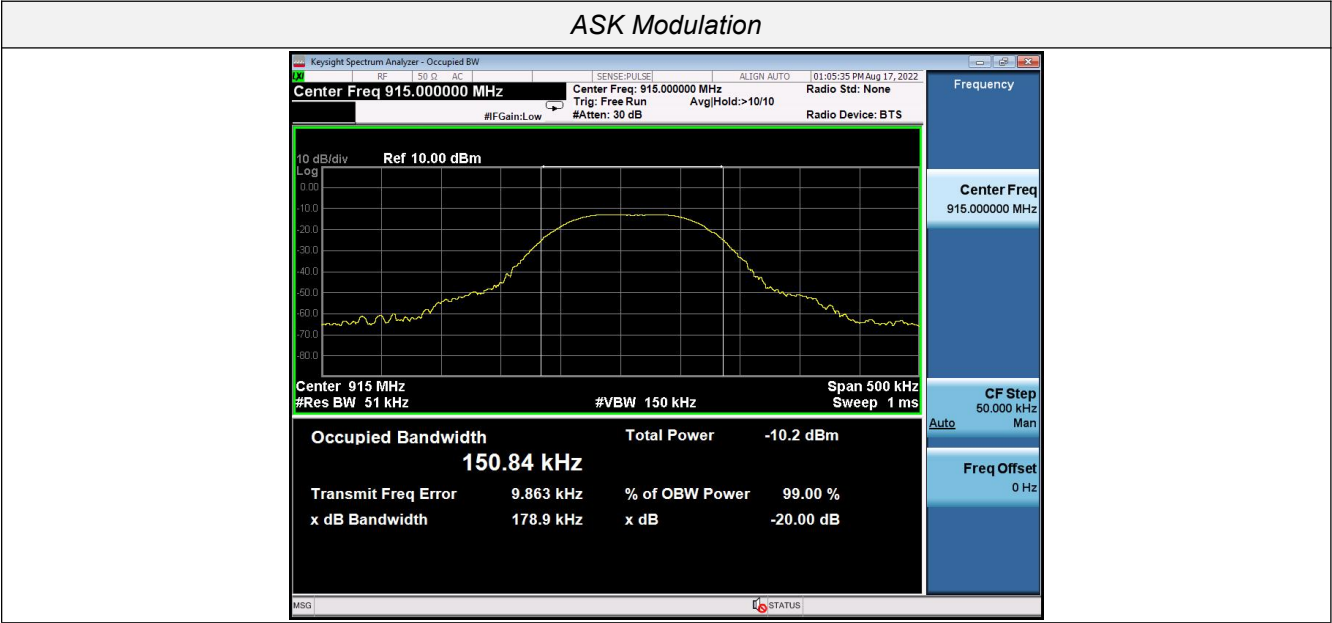
#### TEST RESULTS

| Modulation | Channel | 20dB bandwidth (kHz) | Result |
|------------|---------|----------------------|--------|
| ASK        | CH00    | 178.9                | Pass   |

Note: 1.The test results including the cable lose.



Test plot as follows:



#### **4.4 Antenna Requirement**

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.

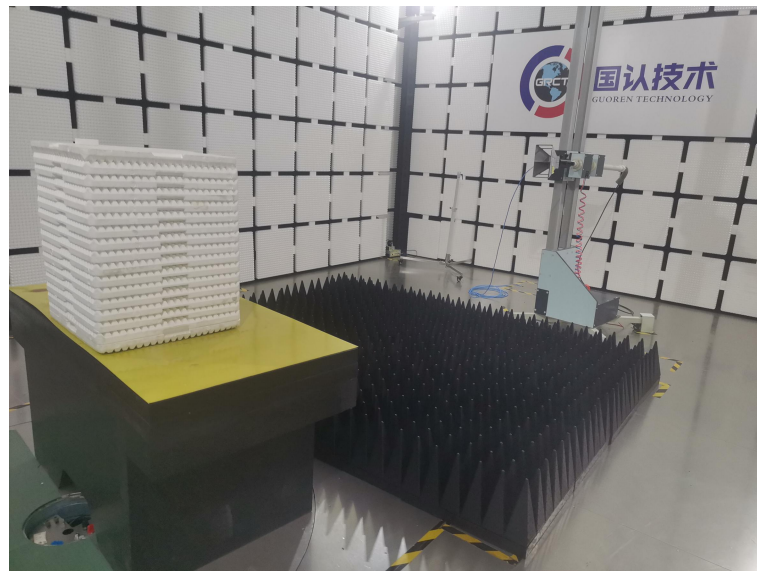
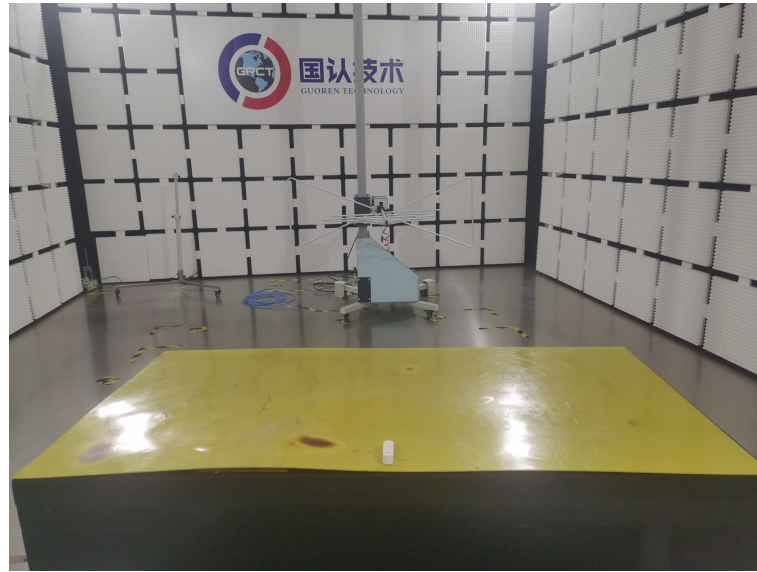
And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

##### **Antenna Information**

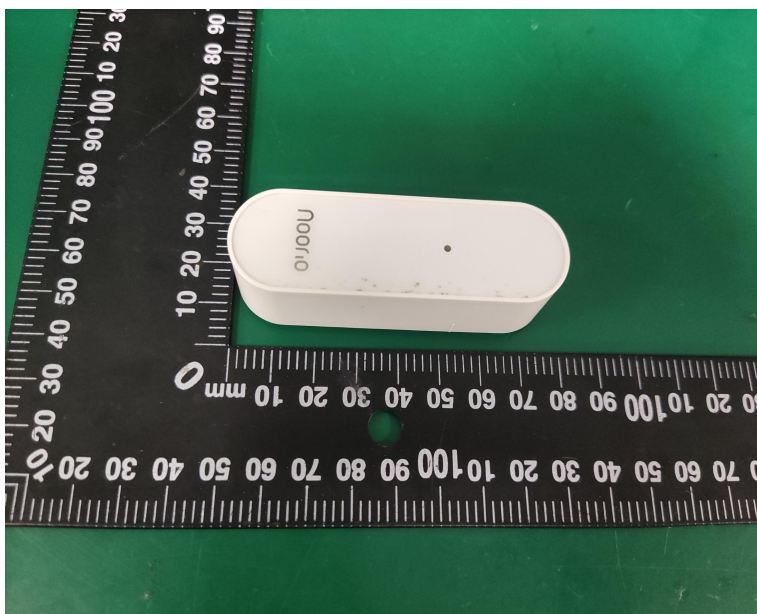
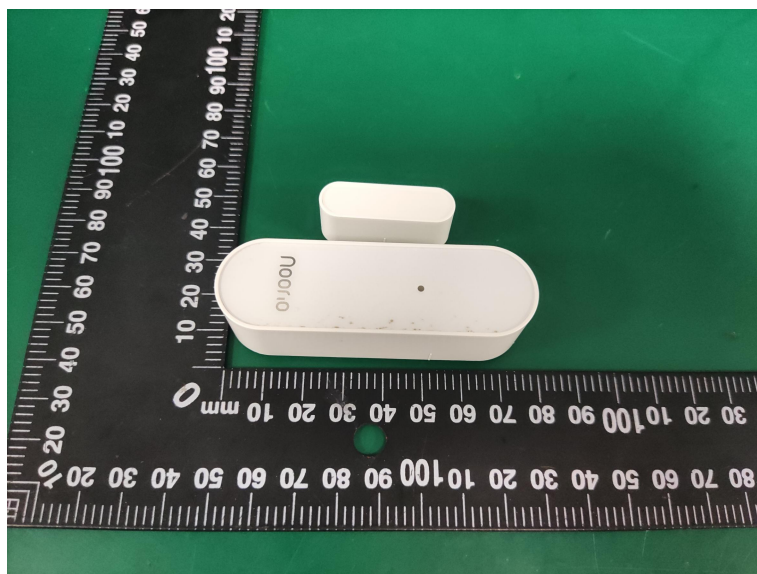
The directional gains of antenna used for transmitting is 1.0 dBi.

Remark: The antenna gain is provided by the customer , if the data provided by the customer is not accurate, Shenzhen GUOREN Certification Technology Service Co., Ltd. does not assume any responsibility.

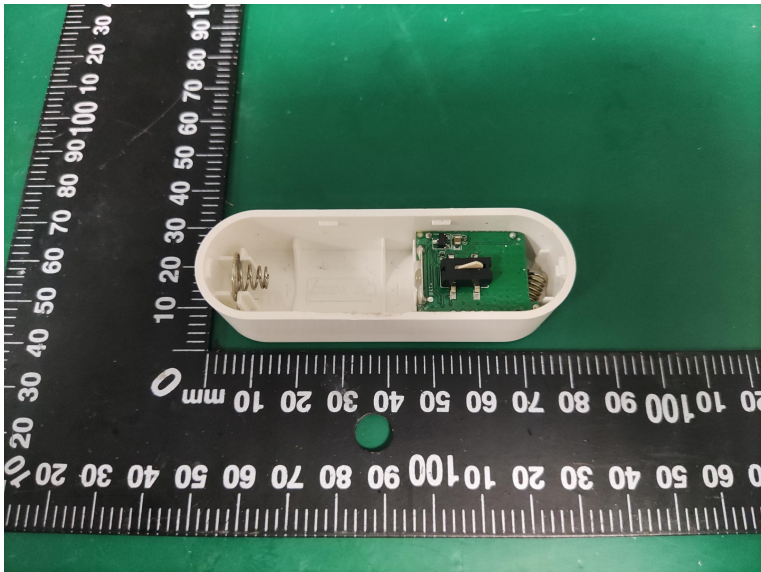
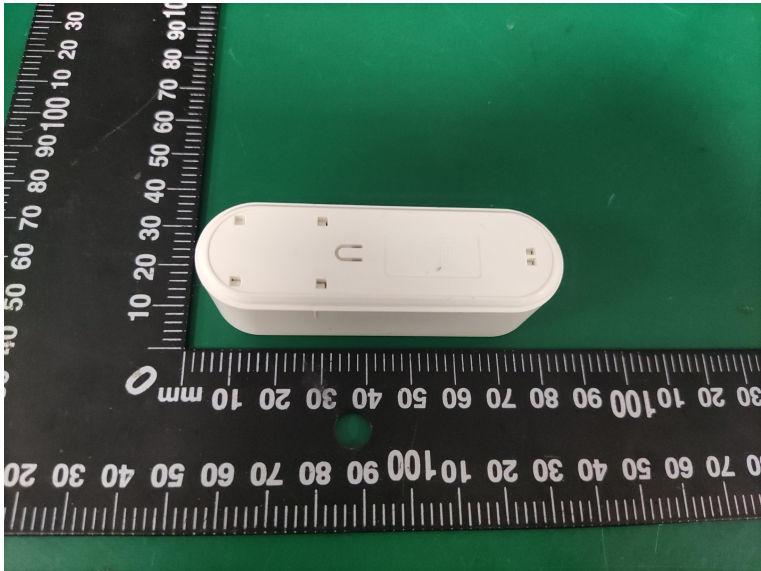
## 5 Test Setup Photos of the EUT



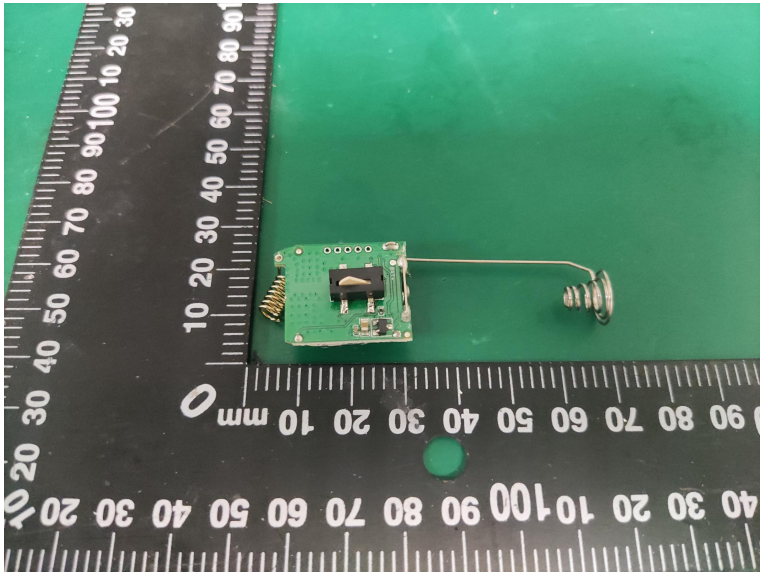
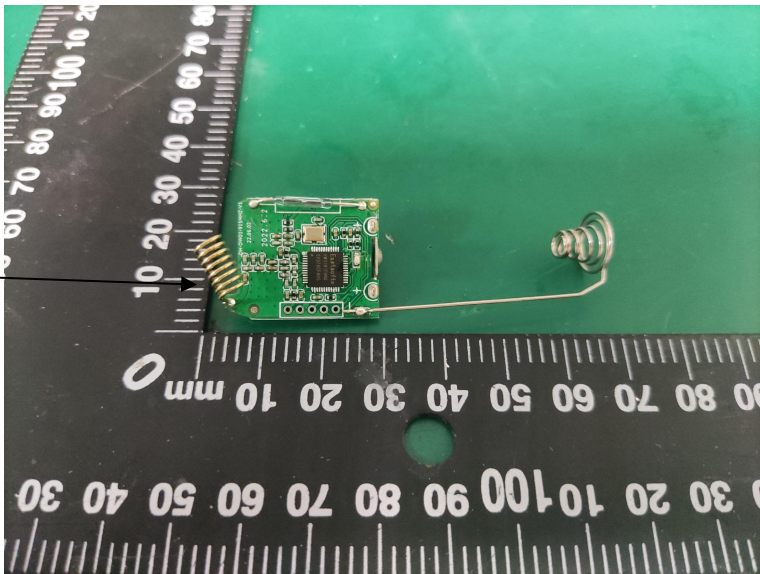
## 6 Photos of the EUT







Antenna



\*\*\*\*\* End of Report \*\*\*\*\*