

FCC Test Report

Report No.: AGC00723210801FE01

FCC ID : YMURF1XG9V2
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : RF1XG9V2
BRAND NAME : RFRemotech
MODEL NAME : RF1XG9V2
APPLICANT : RFRemotech Company
DATE OF ISSUE : Aug. 19, 2021
STANDARD(S) : FCC Part 15 Subpart B
REPORT VERSION : V1.0

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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Aug. 19, 2021 | Valid | Initial release |

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1. VERIFICATION OF CONFORMITY

| | |
|---------------------------------|---|
| Applicant | RFRemotech Company |
| Address | Room G210, Building G, Guangzhou International Business Incubator, No.3, Lanyue Rd., Guangzhou Science Park, Guangzhou, China |
| Manufacturer | RFRemotech Company |
| Address | Room G210, Building G, Guangzhou International Business Incubator, No.3, Lanyue Rd., Guangzhou Science Park, Guangzhou, China |
| Factory | RFRemotech Company |
| Address | Room G210, Building G, Guangzhou International Business Incubator, No.3, Lanyue Rd., Guangzhou Science Park, Guangzhou, China |
| Product Designation | RF1XG9V2 |
| Brand Name | RFRemotech |
| Test Model | RF1XG9V2 |
| Measurement Procedure | ANSI C63.4: 2014 |
| Date of test | Aug. 11, 2021 to Aug. 19, 2021 |
| Deviation | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Report Template | AGCRT-US-IT/AC |

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

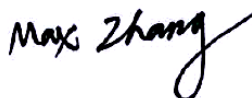
Prepared By



Kelly Cheng
(Project Engineer)

Aug. 19, 2021

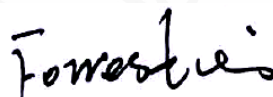
Reviewed By



Max Zhang
(Reviewer)

Aug. 19, 2021

Approved By



Forrest Lei
(Authorized Officer)

Aug. 19, 2021

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2. SYSTEM DESCRIPTION

| TEST MODE DESCRIPTION | | |
|-------------------------------------|--------------------------|-------|
| NO. | TEST MODE DESCRIPTION | WORST |
| 1 | Receiving mode with load | V |
| Note: 1. V means EMI worst mode. | | |

3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB

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4. PRODUCT INFORMATION

| | |
|----------------------------------|------------------------|
| Housing Type | Plastic |
| Hardware Version | V2.2.1 |
| Software Version | V2.1.1 |
| Highest Operate Frequency | Receiving at 433.92MHz |
| Power Supply | DC 9V by battery |

I/O Port Information (☒ Applicable ☐ Not Applicable)

| I/O Port of EUT | | | |
|-----------------|--------|----------|-------------|
| I/O Port Type | Number | Specific | Tested With |
| -- | -- | -- | -- |

Note:

1. All the above "--" means that EUT has no cable.
2. All the cables were provided by AGC Lab.

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5. SUPPORT EQUIPMENT

| Device Type | Manufacturer | Model Name | Serial No. | Data Cable | Power Cable |
|-------------|--------------|------------|------------|------------|-------------|
| Load | -- | RX24-50W | -- | -- | -- |

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6. TEST FACILITY

| | |
|------------------|--|
| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| Location | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|------------------------------|--------------|---------------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | May 11, 2021 | May 10, 2022 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec. 07, 2020 | Dec. 06, 2021 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | Apr. 23, 2021 | Apr. 22, 2023 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Sep. 03, 2020 | Sep. 02, 2022 |
| ANTENNA | SCHWARZBECK | VULB9168 | 494 | Sep. 20, 2019 | Sep. 19, 2021 |
| Test software | FARA | EZ-EMC (Ver RA-03A) | N/A | N/A | N/A |

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7. TEST ITEMS AND THE RESULTS

| Test item | Test Requirement | Test Method | Class/Severity | Result |
|--------------------|-------------------|-------------|----------------|--------|
| CONDUCTED EMISSION | FCC Part 15 Rules | ANSI C63.4 | Class B | N/A |
| RADIATED EMISSION | FCC Part 15 Rules | ANSI C63.4 | Class B | Pass |

Note: The conducted limits are not required for devices which only employ battery power for operation.

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8. RADIATED EMISSION TEST

8.1. LIMITS OF RADIATED EMISSION TEST

30MHz to 1GHz:

| Frequency (MHz) | Distance (m) | Maximum Field Strength Limit (dBuV/m/ Q.P.) |
|-----------------|--------------|---|
| 30~88 | 3 | 40.0 |
| 88~216 | 3 | 43.5 |
| 216~960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note: The lower limit shall apply at the transition frequency.

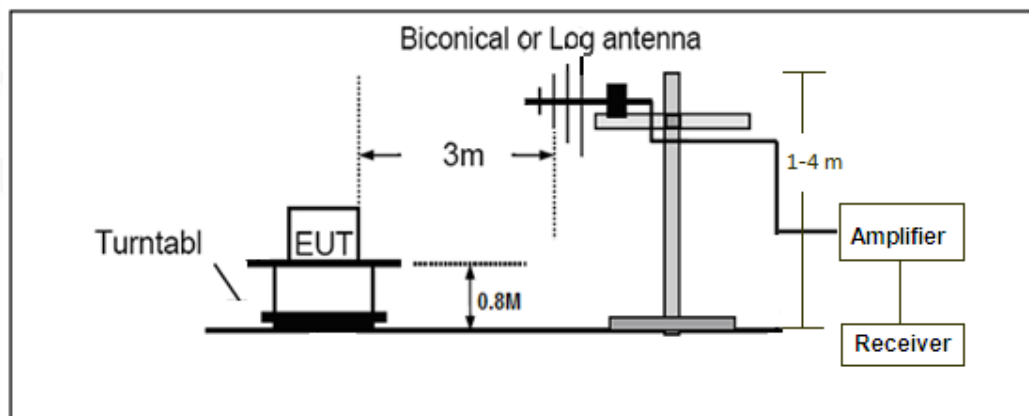
Above 1GHz:

| Frequency range (GHz) | Peak dB(μV/m) | Average dB(μV/m) |
|-----------------------|---------------|------------------|
| 1-6 | 74 | 54 |

Note: The lower limit shall apply at the transition frequency.

8.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators below 1GHz

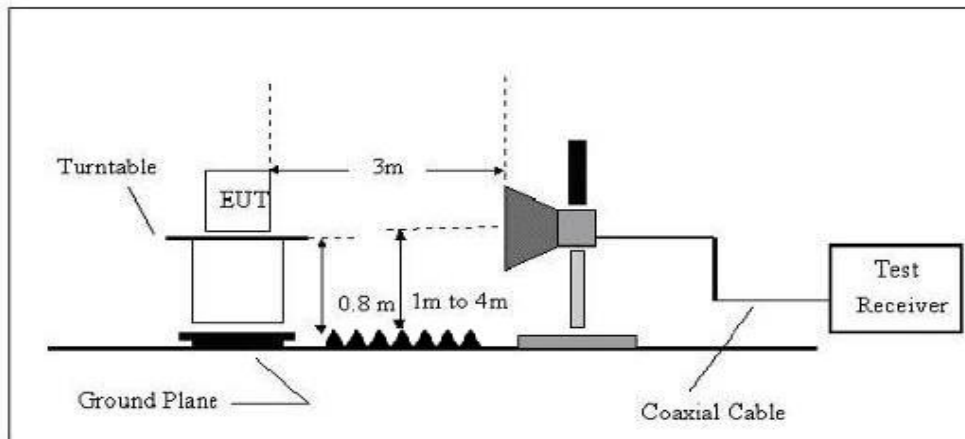


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Above 1GHz



8.3. PROCEDURE OF RADIATED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) All support equipments received AC120V/60Hz power from socket under the turntable, if any.
- (5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz, 1GHz-6GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

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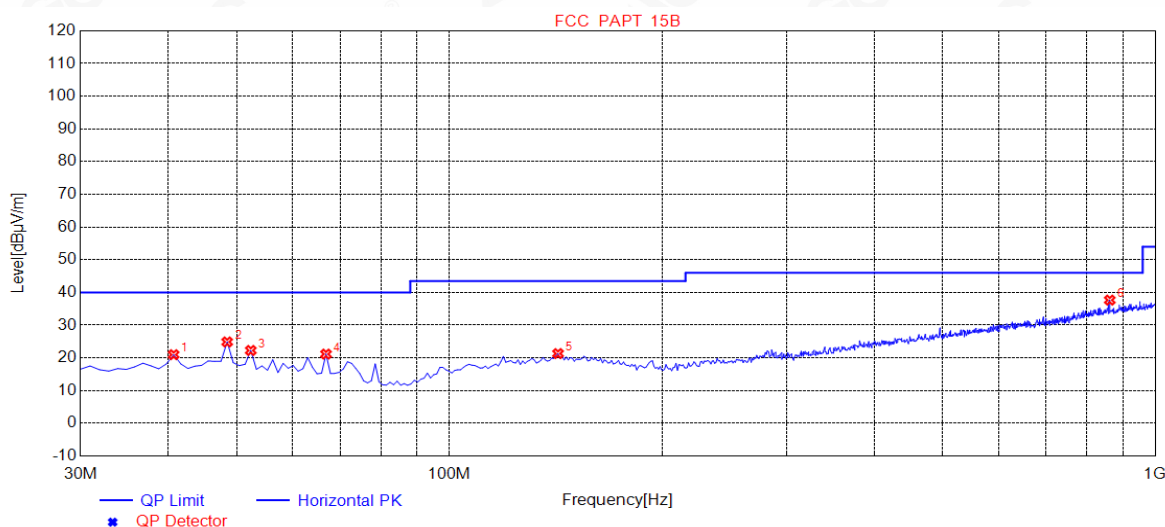
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8.4. TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission below 1GHz Test at 3m Distance-Horizontal



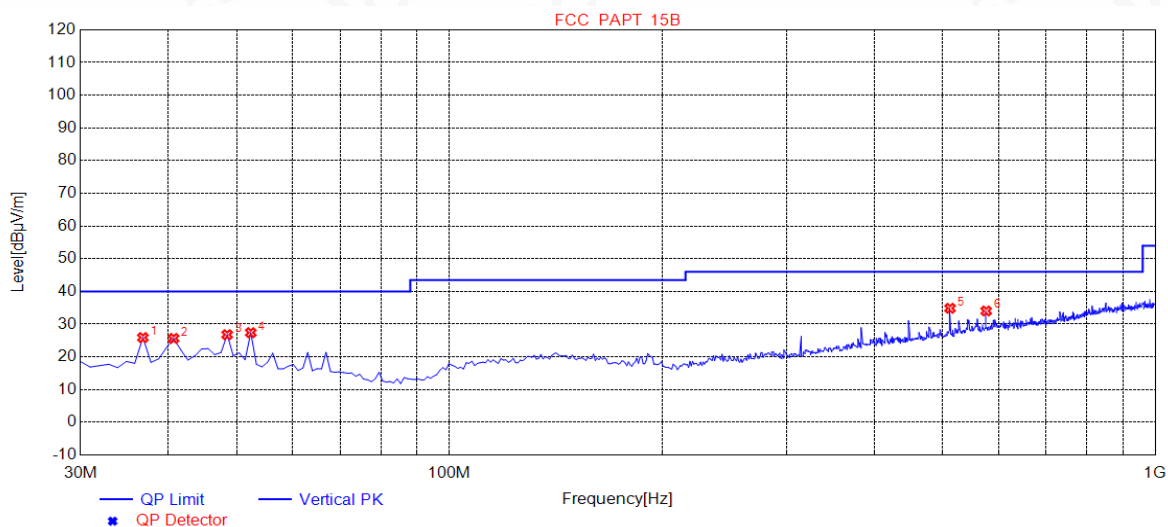
| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1 | 40.6700 | 20.99 | 11.91 | 40.00 | 19.01 | 100 | 274 | Horizontal |
| 2 | 48.4300 | 24.89 | 11.71 | 40.00 | 15.11 | 100 | 123 | Horizontal |
| 3 | 52.3100 | 22.28 | 11.49 | 40.00 | 17.72 | 100 | 231 | Horizontal |
| 4 | 66.8600 | 21.17 | 9.76 | 40.00 | 18.83 | 100 | 254 | Horizontal |
| 5 | 142.5200 | 21.33 | 14.88 | 43.50 | 22.17 | 100 | 163 | Horizontal |
| 6 | 862.2600 | 37.68 | 29.52 | 46.00 | 8.32 | 100 | 358 | Horizontal |

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Radiated Emission below 1GHz Test at 3m Distance-Vertical



| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1 | 36.7900 | 25.91 | 11.16 | 40.00 | 14.09 | 100 | 153 | Vertical |
| 2 | 40.6700 | 25.66 | 11.91 | 40.00 | 14.34 | 100 | 276 | Vertical |
| 3 | 48.4300 | 26.80 | 11.71 | 40.00 | 13.20 | 100 | 359 | Vertical |
| 4 | 52.3100 | 27.42 | 11.49 | 40.00 | 12.58 | 100 | 34 | Vertical |
| 5 | 512.0900 | 34.87 | 22.42 | 46.00 | 11.13 | 100 | 233 | Vertical |
| 6 | 576.1100 | 34.05 | 23.81 | 46.00 | 11.95 | 100 | 308 | Vertical |

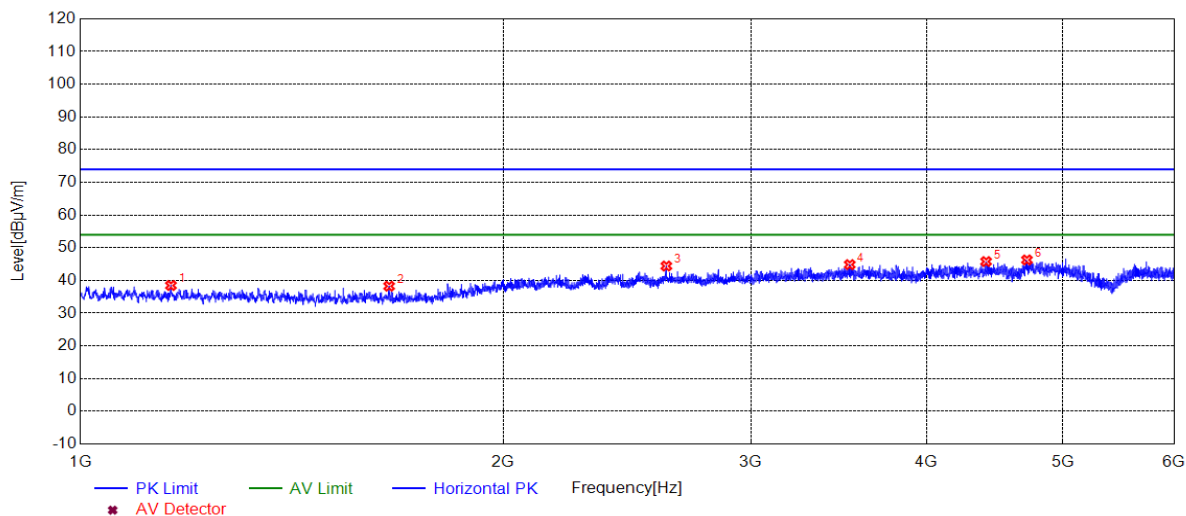
RESULT: PASS

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RADIATED EMISSION ABOVE 1GHz – HORIZONTAL



| NO | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1 | 1160.0160 | 38.47 | -16.80 | 74.00 | 35.53 | 150 | 300 | Horizontal |
| 2 | 1658.5659 | 38.26 | -15.45 | 74.00 | 35.74 | 150 | 190 | Horizontal |
| 3 | 2612.1612 | 44.42 | -9.63 | 74.00 | 29.58 | 150 | 240 | Horizontal |
| 4 | 3527.7528 | 44.85 | -7.54 | 74.00 | 29.15 | 150 | 40 | Horizontal |
| 5 | 4410.8411 | 45.79 | -5.43 | 74.00 | 28.21 | 150 | 290 | Horizontal |
| 6 | 4715.8716 | 46.29 | -4.99 | 74.00 | 27.71 | 150 | 180 | Horizontal |

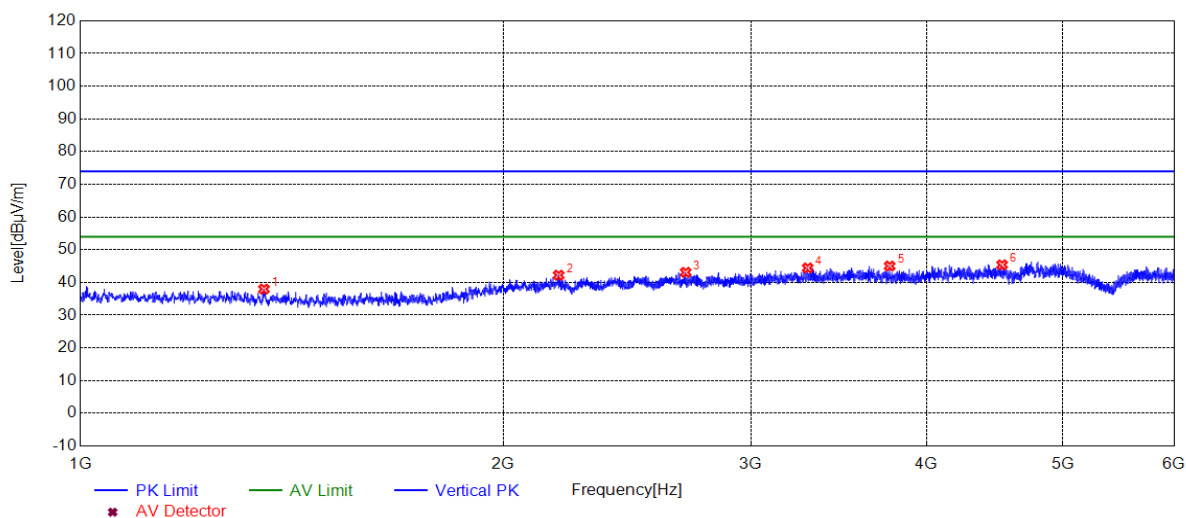
RESULT: PASS

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RADIATED EMISSION ABOVE 1GHz - VERTICAL



| NO | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1 | 1351.0351 | 37.99 | -16.98 | 74.00 | 36.01 | 150 | 290 | Vertical |
| 2 | 2189.6190 | 42.23 | -11.02 | 74.00 | 31.77 | 150 | 180 | Vertical |
| 3 | 2696.1696 | 43.11 | -9.57 | 74.00 | 30.89 | 150 | 70 | Vertical |
| 4 | 3292.7293 | 44.44 | -8.32 | 74.00 | 29.56 | 150 | 10 | Vertical |
| 5 | 3766.2766 | 45.03 | -7.01 | 74.00 | 28.97 | 150 | 0 | Vertical |
| 6 | 4527.8528 | 45.40 | -5.17 | 74.00 | 28.60 | 150 | 200 | Vertical |

RESULT: PASS

Note:

 $\text{Level (dB}\mu\text{V/m)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB/m)}$ $\text{Factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable loss (dB)} + \text{Attenuation (dB) for Attenuator}$ $\text{Margin} = \text{Limit} - \text{Level}$

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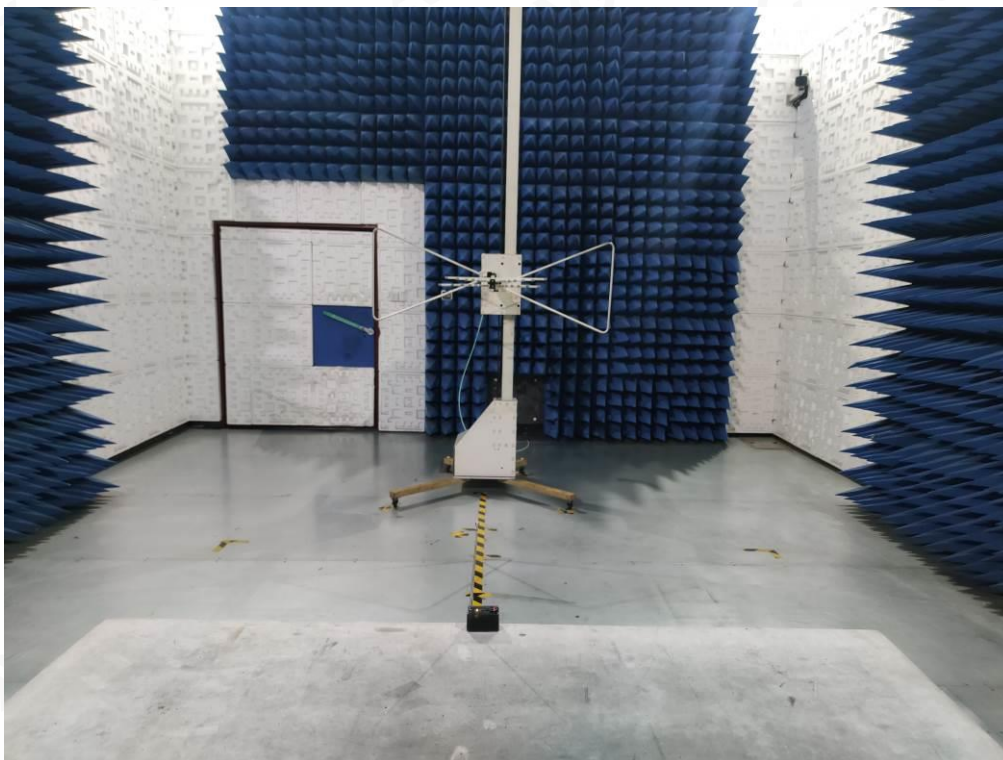
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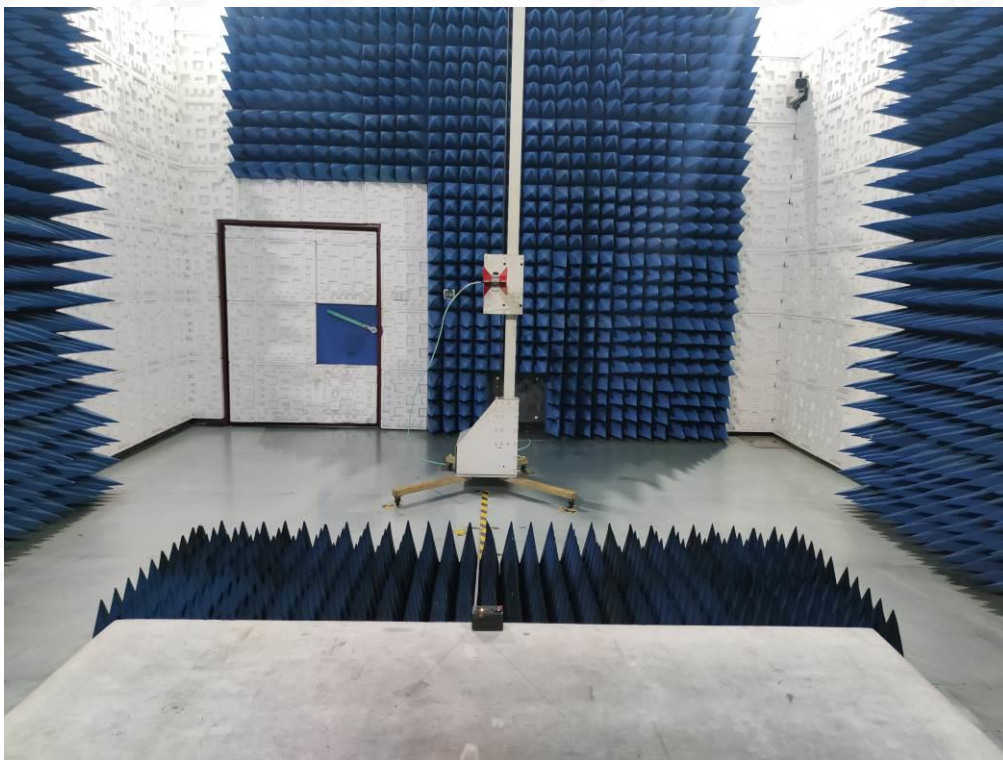


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP-BELOW 1GHz



FCC RADIATED EMISSION TEST SETUP-ABOVE 1GHz



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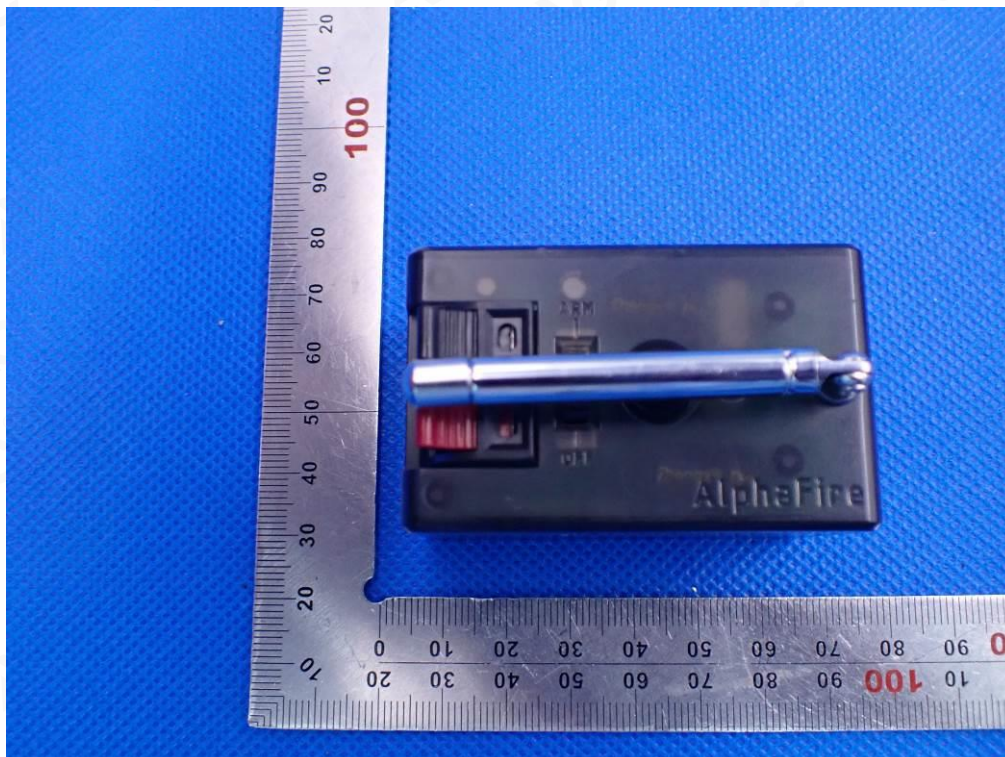
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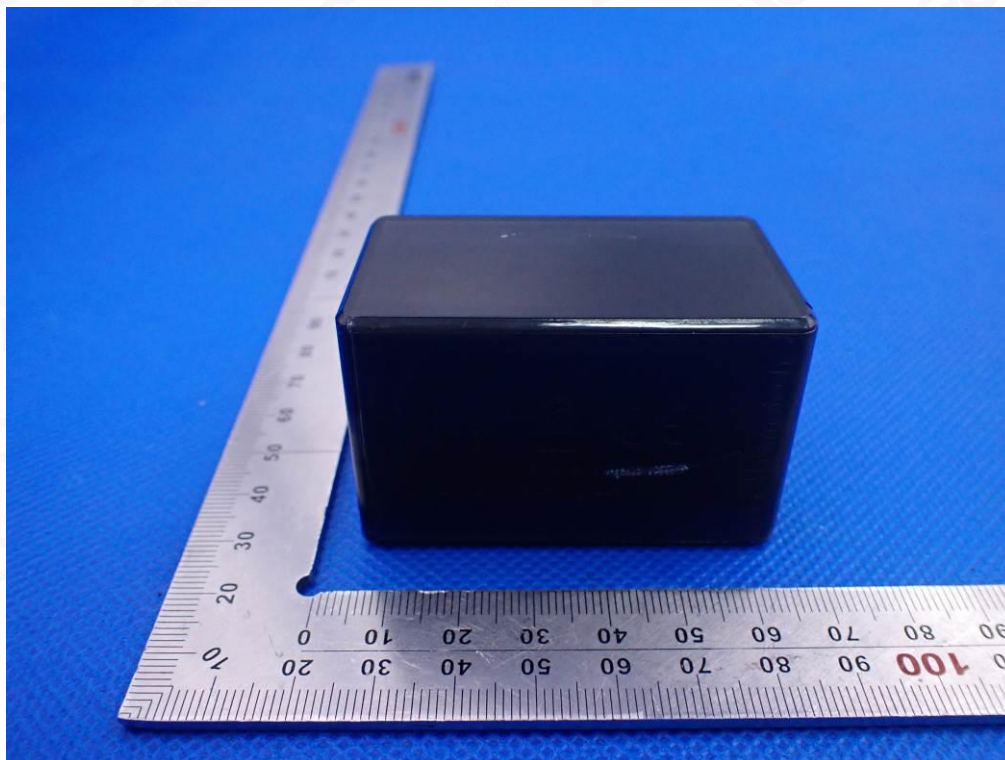


APPENDIX B: PHOTOGRAPHS OF EUT

OUTSIDE VIEW-1 OF EUT



OUTSIDE VIEW-2 OF EUT



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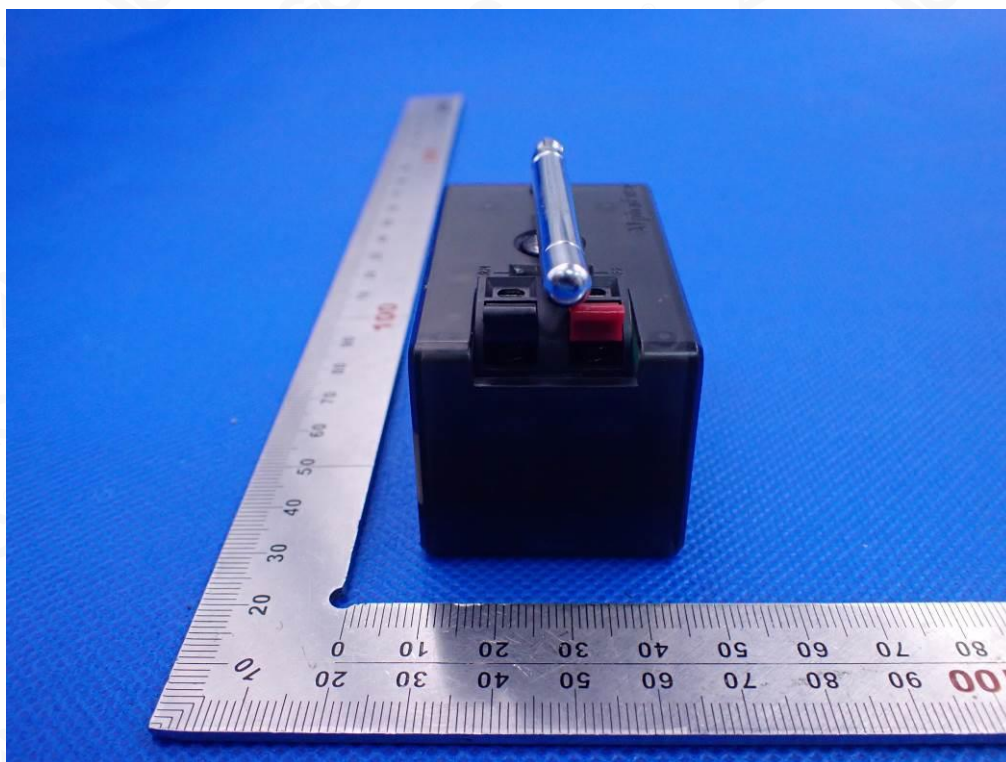
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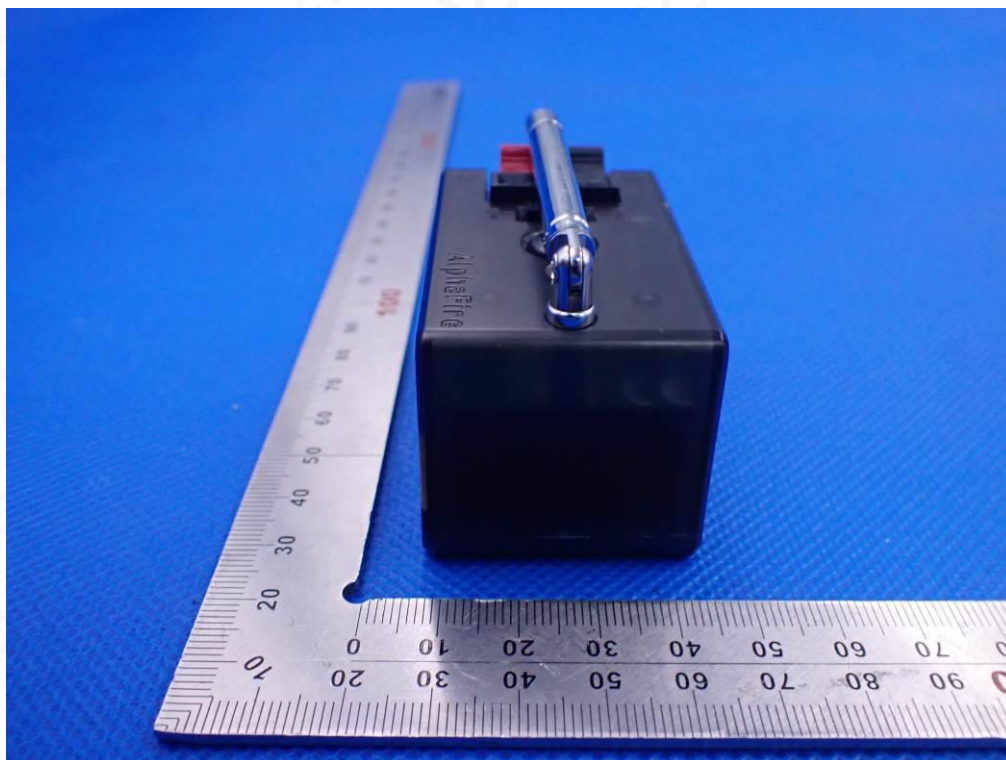
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OUTSIDE VIEW-3 OF EUT



OUTSIDE VIEW-4 OF EUT

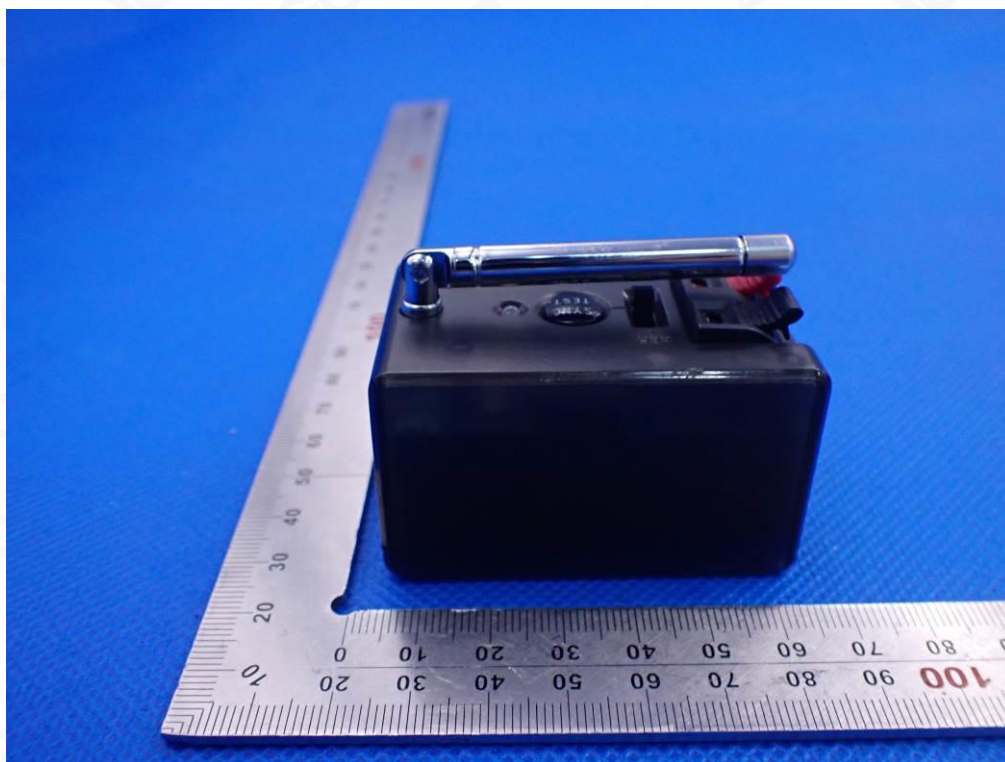


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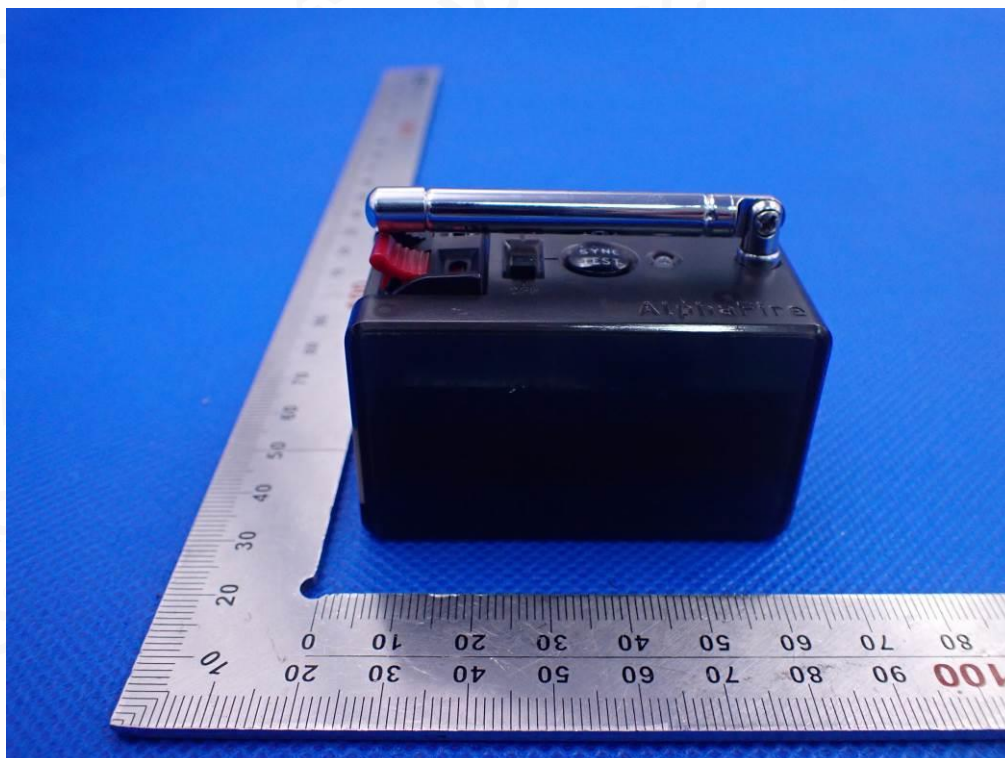
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OUTSIDE VIEW-5 OF EUT



OUTSIDE VIEW-6 OF EUT

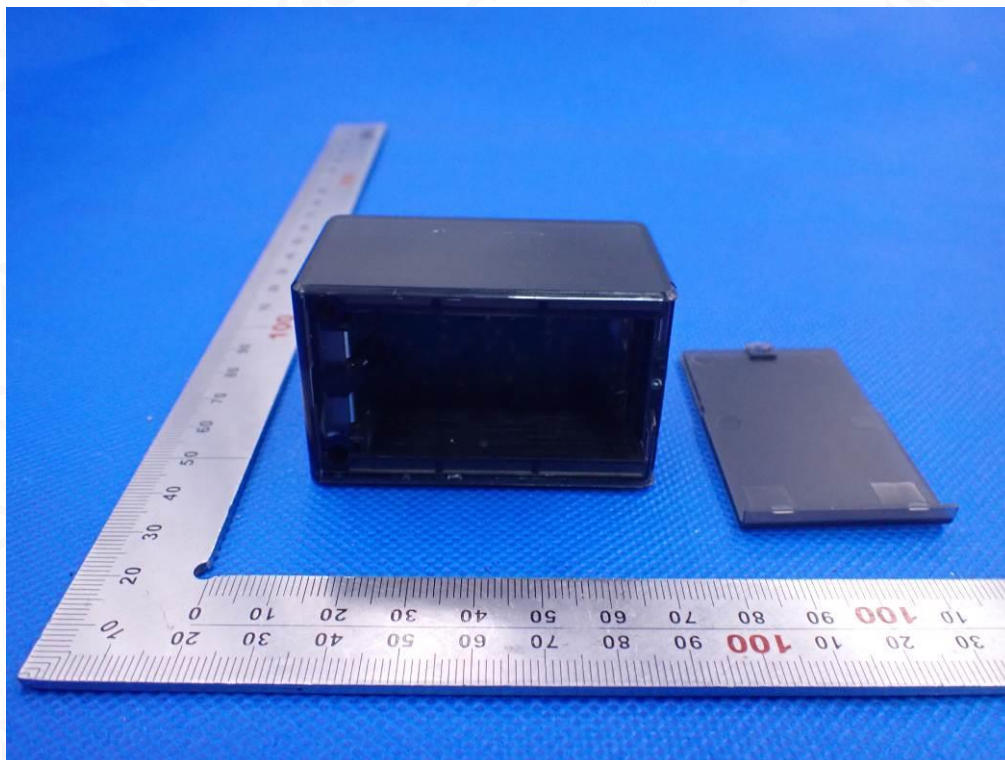


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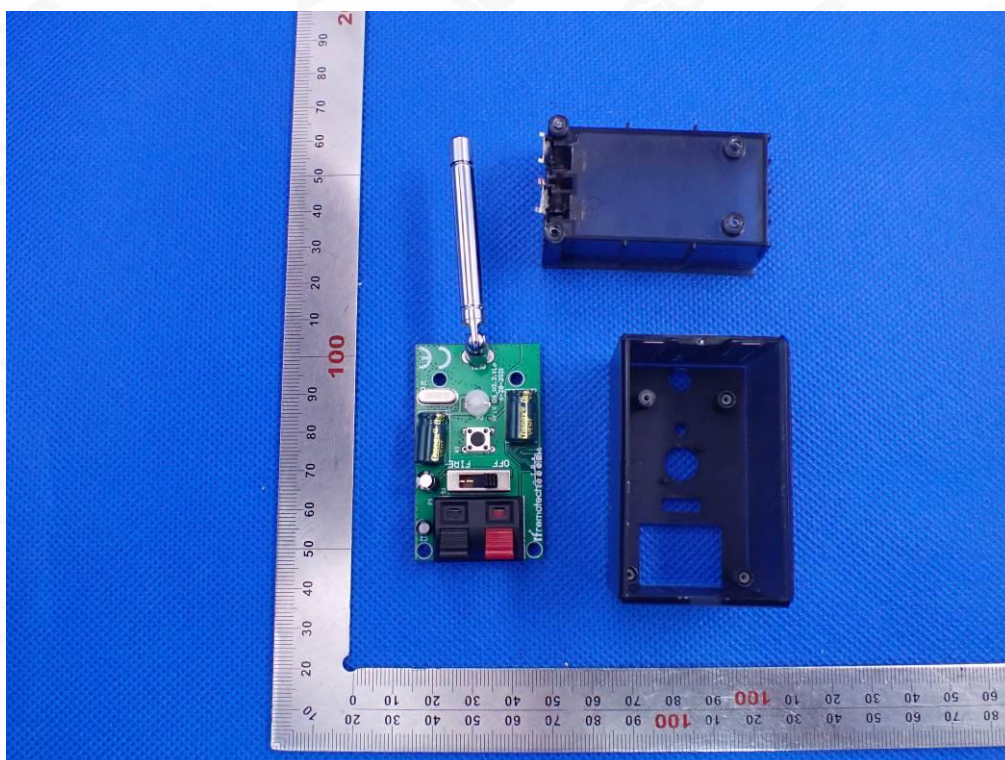
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INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT

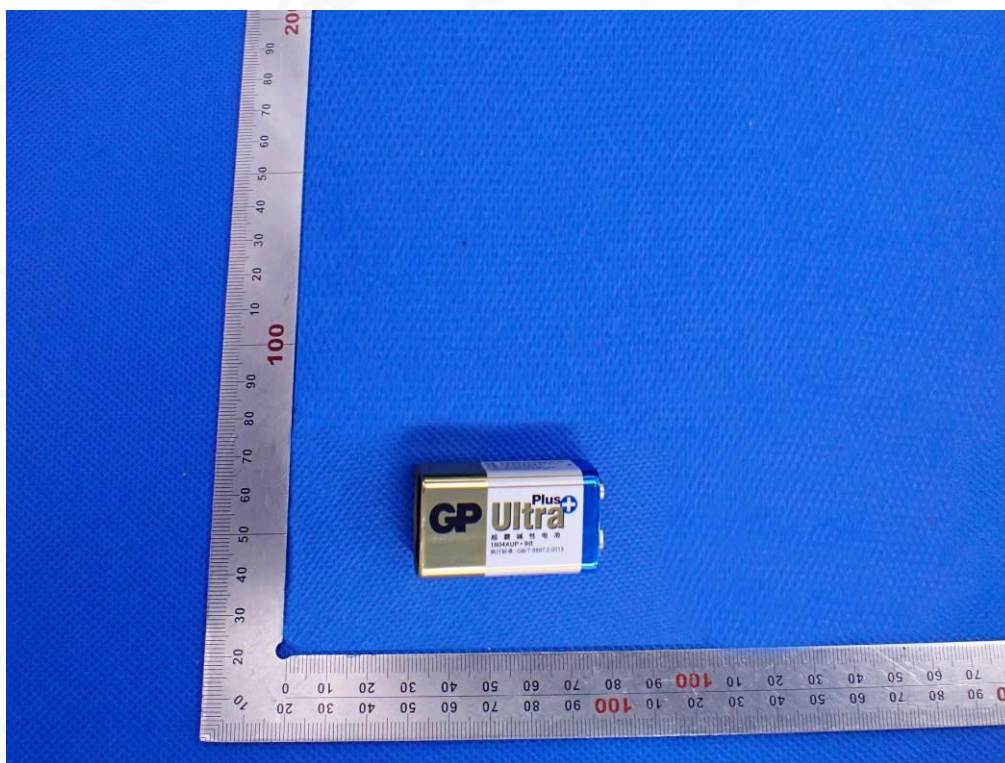


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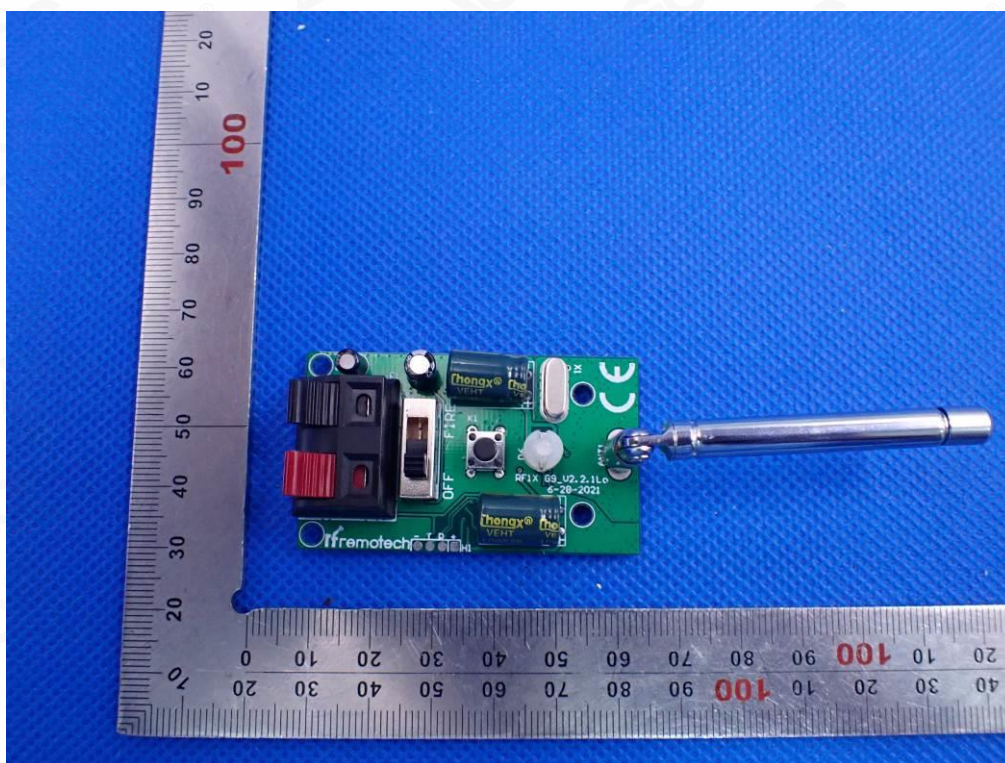
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INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT

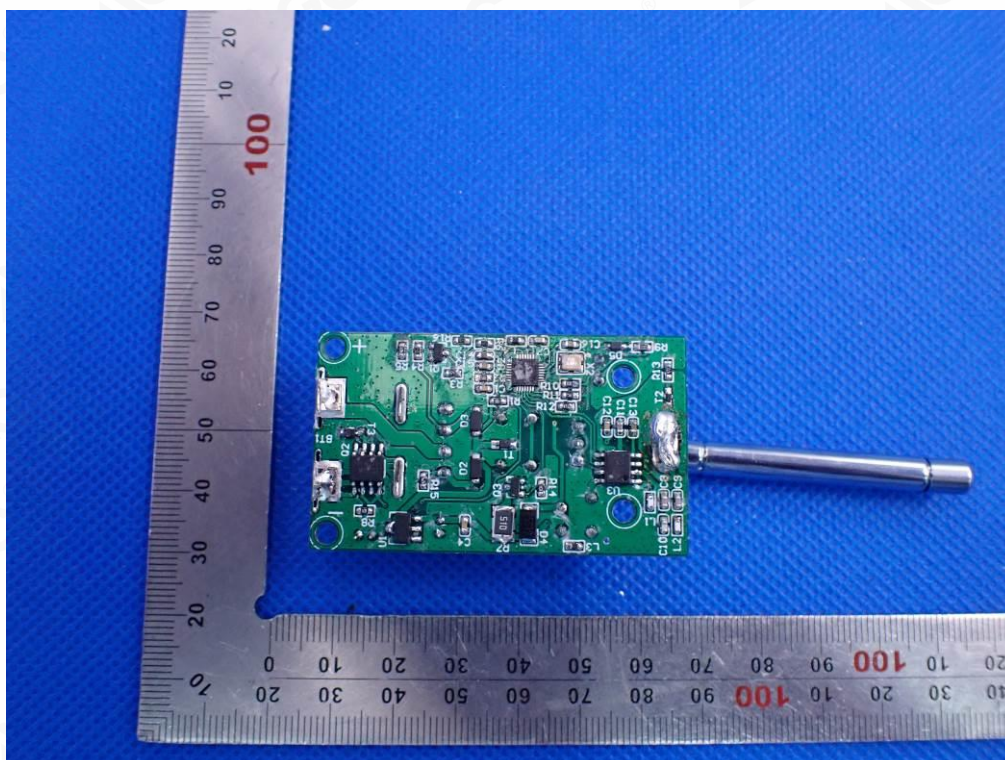


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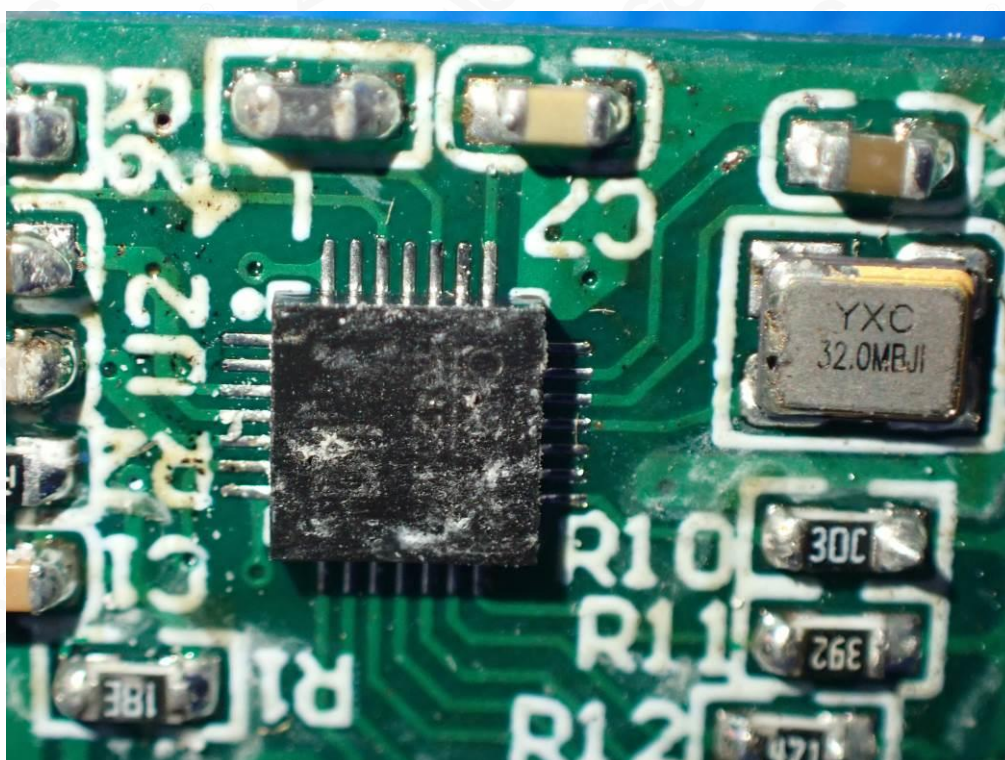
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INTERNAL VIEW-5 OF EUT



INTERNAL VIEW-6 OF EUT

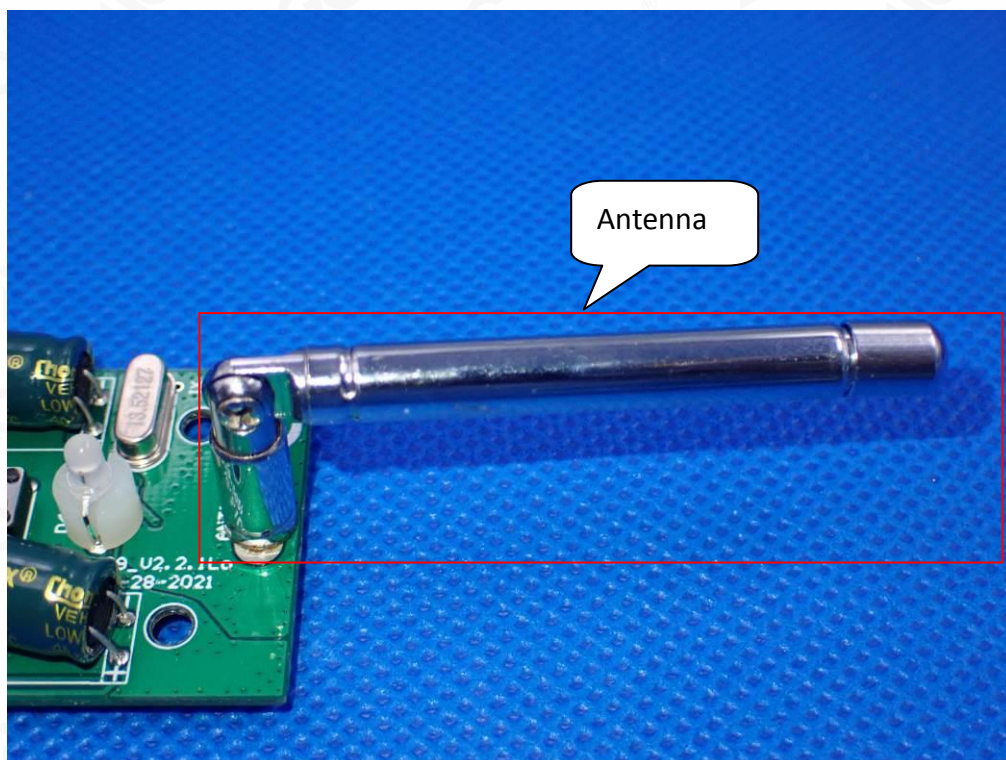


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INTERNAL VIEW-7 OF EUT



----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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