# FCC Test Report

Report No.: AGC10519210502FE03

| | | |
|---|---|---|
| **FCC ID** | : | 2AZWC9802M |
| **APPLICATION PURPOSE** | : | Original Equipment |
| **PRODUCT DESIGNATION** | : | Remote Control Car Series |
| **BRAND NAME** | : | N/A |
| **MODEL NAME** | : | Please see page 4 |
| **APPLICANT** | : | SHANTOU CHENGHAI CHENQI TOYS FACTORY |
| **DATE OF ISSUE** | : | Jun. 02. 2021 |
| **STANDARD(S)**<br>**TEST PROCEDURE(S)** | : | FCC Part 15 Subpart C Section 15.235 |
| **REPORT VERSION** | : | V1.0 |

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance(Shenzhen)Co., Ltd
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## Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|---|---|---|---|---|
| V1.0 | / | Jun. 02. 2021 | Valid | Initial release |

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## 1. VERIFICATION OF CONFORMITY

| | |
|---|---|
| **Applicant** | SHANTOU CHENGHAI CHENQI TOYS FACTORY |
| **Address** | Cailiao Industrial Zone, Lianxia Town, Chenghai District, Shantou City |
| **Manufacturer** | SHANTOU CHENGHAI CHENQI TOYS FACTORY |
| **Address** | Cailiao Industrial Zone, Lianxia Town, Chenghai District, Shantou City |
| **Factory** | SHANTOU CHENGHAI CHENQI TOYS FACTORY |
| **Address** | Cailiao Industrial Zone, Lianxia Town, Chenghai District, Shantou City |
| **Product Designation** | Remote Control Car Series |
| **Brand Name** | N/A |
| **Test Model** | 11031971 |
| **Series Model** | Please see page 5 |
| **Difference description** | All the series models are the same as the test model except for the model names and the different of packing. |
| **Date of test** | May 26, 2021 to Jun. 02, 2021 |
| **Deviation** | No any deviation from the test method |
| **Condition of Test Sample** | Normal |
| **Test Result** | Pass |
| **Report Template** | AGCRT-US-SRD/RF |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.235. The test results of this report relate only to the tested sample identified in this report.

Prepared By

Eddy Liu
(Project Engineer)
Jun. 02, 2021

Reviewed By

Max Zhang
(Reviewer)
Jun. 02, 2021

Approved By

Forrest Lei
(Authorized Officer)
Jun. 02, 2021

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# 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

| | |
|---|---|
| **Operation Frequency** | 49.86MHz |
| **Field Strength(3m)** | 77.92dBuV/m(Peak)@3m |
| **Modulation** | ASK |
| **Number of channels** | 1 Channel |
| **Hardware Version** | 06 |
| **Software Version** | 06 |
| **Antenna Designation** | external antenna (Comply with requirements of the FCC part 15.203) |
| **Antenna Gain** | 0dBi |
| **Power Supply** | DC 3V (alkaline dry battery AA*2) |

| | |
|---|---|
| **Series Model** | CQ-9802M, CQ-012, CQ-011, CQ-013, CQ-015, CQ-017, CQ-005, CQ-009, CQ-009A, CQ-137, CQ-147, CQ-147A, CQ-133, CQ-132, CQ-131, CQ-300A, CQ-301A, CQ-302A, CQ-303A, CQ-304A, CQ-305A, CQ-306A, CQ-307A, CQ-308A, CQ-309A, CQ-310A, CQ-311A, CQ-312A, CQ-313A, CQ-314A, CQ-315A, CQ-316A, CQ-317A, CQ-318A, CQ-319A, CQ-320A, CQ-321A, CQ-500, CQ-501, CQ-502, CQ-503, CQ-504, CQ-505, CQ-506, CQ-507, CQ-508, CQ-509, CQ-510, CQ-511, CQ-512, CQ-513, CQ-514, CQ-515, CQ-516, CQ-517, CQ-518, CQ-519, CQ-520, CQ-521, CQ-522, CQ-523, CQ-524, CQ-525, CQ-526, CQ-527, CQ-528, CQ-529, CQ-530, CQ-531, CQ-532, CQ-533, CQ-534, CQ-535, CQ-536, CQ-537, CQ-538, CQ-539, CQ-540, CQ-613, CQ-614, CQ-615, CQ-616, CQ-617, CQ-618, CQ-619, CQ-620, CQ-621, CQ-622, CQ-623, CQ-624, CQ-625, CQ-626, CQ-627, CQ-628, CQ-629, CQ-630 |

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## 3. 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%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %

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## 4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|---|---|
| 1 | Transmitting mode |

Note:
1. All the test modes can be supply by new battery, and only the data of the worst case recorded in the test report.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:

EUT

### 5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Mfr/Brand | Model/Type No. | Remark |
|---|---|---|---|---|
| 1 | Remote Control Car Series | N/A | 11031971 | EUT |

### 5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|---|---|---|
| §15.235&15.209 | Radiated Emission and Band Edges | Compliant |
| §15.215 | 20dB bandwidth | Compliant |
| §15.207 | Conducted Emission | N/A |

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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 |
| **Designation Number** | CN1259 |
| **FCC Test Firm Registration Number** | 975832 |
| **A2LA Cert. No.** | 5054.02 |
| **Description** | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA |

## 7. TEST EQUIPMENT LIST

### TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|---|---|---|---|---|---|
| TEST RECEIVER | R&S | ESCI | 10096 | Jun. 26, 2020 | Jun. 25, 2021 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec. 11, 2020 | Dec. 10, 2021 |
| Attenuator | ZHINAN | E-002 | N/A | Aug. 25, 2020 | Aug. 24, 2021 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | Jun. 13, 2020 | Jun. 12, 2021 |
| ANTENNA | SCHWARZBECK | VULB9168 | 494 | Jan. 08, 2021 | Jan. 07, 2021 |
| Test software | FARA | EZ-EMC (Ver RA-03A) | N/A | N/A | N/A |

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# 8. RADIATED EMISSION

## 8.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter | Setting |
|---|---|
| Start ~Stop Frequency | 9KHz~150KHz/RBW 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RBW 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RBW 120KHz for QP |
| Start ~Stop Frequency | 1GHz~26.5GHz<br>1MHz/1MHz for Peak, 1MHz/10Hz for Average |

| Receiver Parameter | Setting |
|---|---|
| Start ~Stop Frequency | 9KHz~150KHz/RBW 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RBW 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RBW 120KHz for QP |

**Test limit for Standard FCC15.235**

The field strength of any emission within this band shall not exceed 10,000 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in §15.209, whichever permits the higher emission levels. The field strength of any emissions removed by more than 10 kHz from the band edges shall not exceed the general radiated emission limits in §15.209.

**Test limit for Standard FCC 15.209**

| **Frequency (MHz)** | **Distance Meters** | **Field Strengths Limit** | |
|---|---|---|---|
| | | **μV/m** | **dB(μV)/m** |
| 0.009 ~ 0.490 | 300 | 2400/F(kHz) | --- |
| 0.490 ~ 1.705 | 30 | 24000/F(kHz) | --- |
| 1.705 ~ 30 | 30 | 30 | --- |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average) | |
| Remark: (1) Emission level dBμV = 20 log Emission level μV/m<br>(2) The smaller limit shall apply at the cross point between two frequency bands.<br>(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system. | | | |

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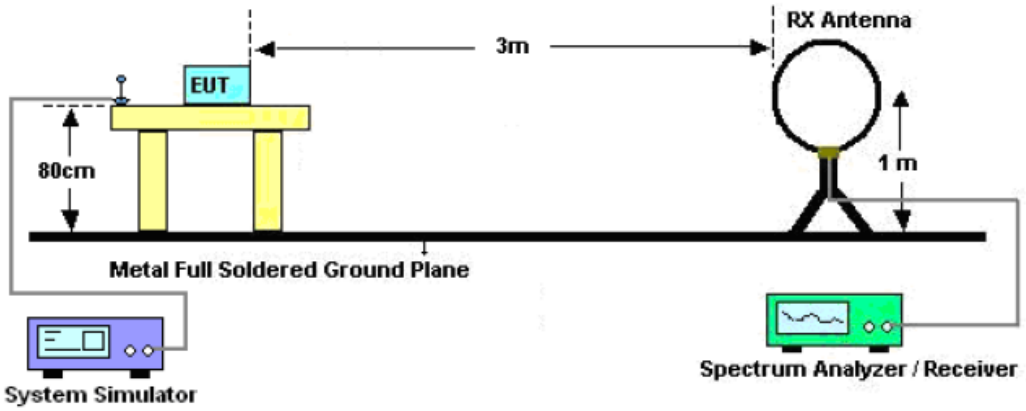
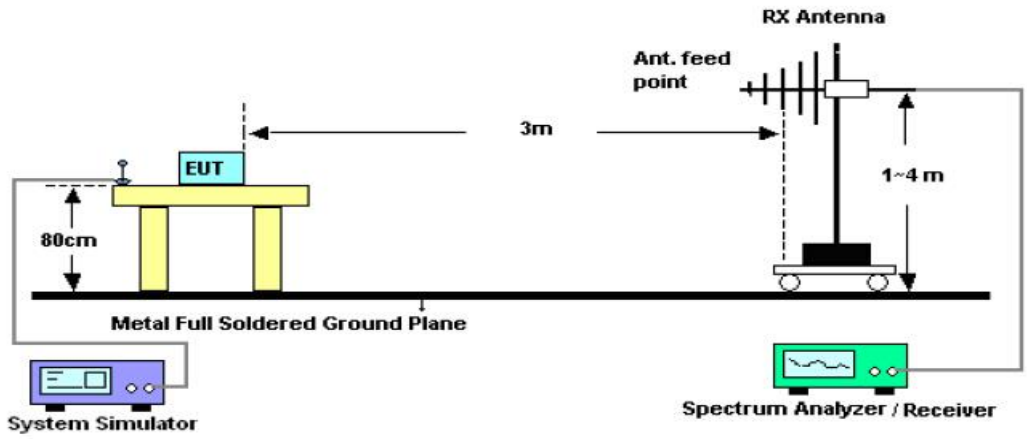
## 8.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz




RADIATED EMISSION TEST SETUP 30MHz-1000MHz

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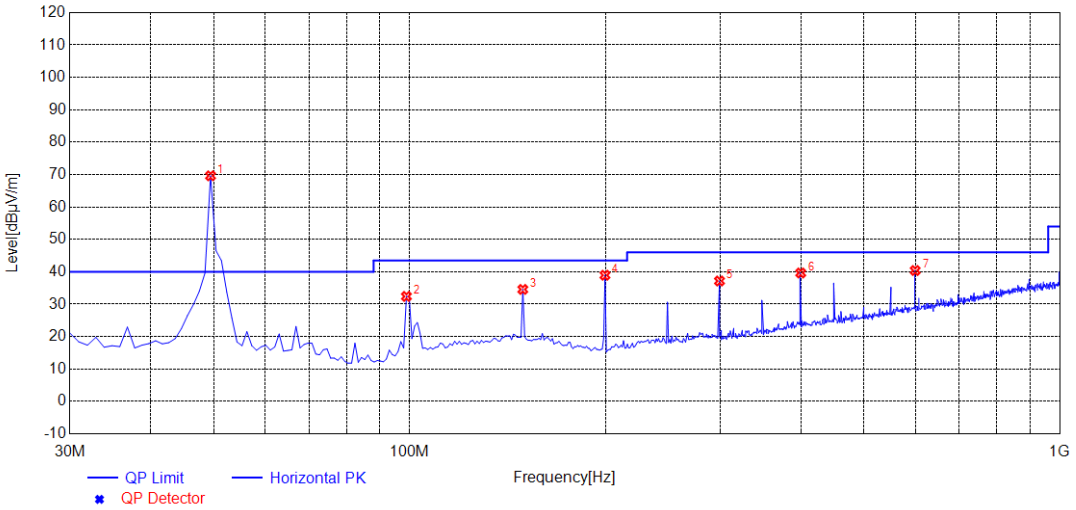
## 8.3. TEST RESULT

**RADIATED EMISSION BELOW 30MHz**

No emission found between lowest internal used/generated frequencies to 30MHz.

**RADIATED EMISSION BELOW 1GHZ-Horizontal**




| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 49.8600 | 69.64 | 11.69 | 80.00 | 10.36 | 150 | 78 | Horizontal |
| 2 | 98.8700 | 32.41 | 10.91 | 43.50 | 11.09 | 150 | 276 | Horizontal |
| 3 | 149.3100 | 34.57 | 14.88 | 43.50 | 8.93 | 150 | 120 | Horizontal |
| 4 | 199.7500 | 38.95 | 12.07 | 43.50 | 4.55 | 150 | 315 | Horizontal |
| 5 | 299.6600 | 37.17 | 15.91 | 46.00 | 8.83 | 150 | 342 | Horizontal |
| 6 | 399.5700 | 39.65 | 19.77 | 46.00 | 6.35 | 150 | 296 | Horizontal |
| 7 | 599.3900 | 40.41 | 24.31 | 46.00 | 5.59 | 150 | 186 | Horizontal |

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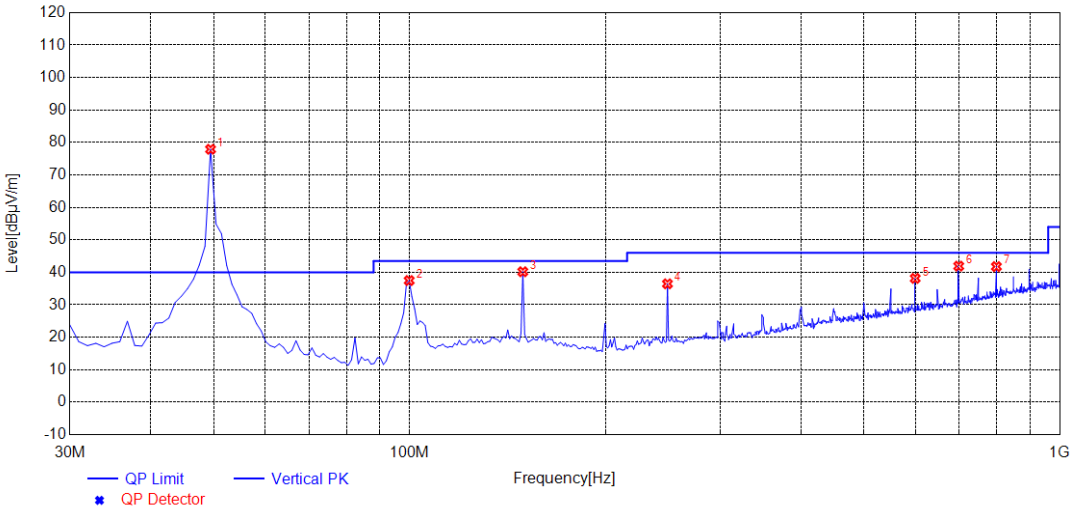
## RADIATED EMISSION BELOW 1GHZ- Vertical




| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 49.8600 | 77.92 | 11.69 | 80.00 | 2.08 | 150 | 163 | Vertical |
| 2 | 99.8400 | 37.47 | 11.30 | 43.50 | 6.03 | 150 | 170 | Vertical |
| 3 | 149.3100 | 40.19 | 14.88 | 43.50 | 3.31 | 150 | 269 | Vertical |
| 4 | 249.2200 | 36.48 | 14.70 | 46.00 | 9.52 | 150 | 282 | Vertical |
| 5 | 599.3900 | 38.15 | 24.31 | 46.00 | 7.85 | 150 | 89 | Vertical |
| 6 | 699.3000 | 41.92 | 25.95 | 46.00 | 4.08 | 150 | 127 | Vertical |
| 7 | 799.2100 | 41.77 | 28.49 | 46.00 | 4.23 | 150 | 0 | Vertical |

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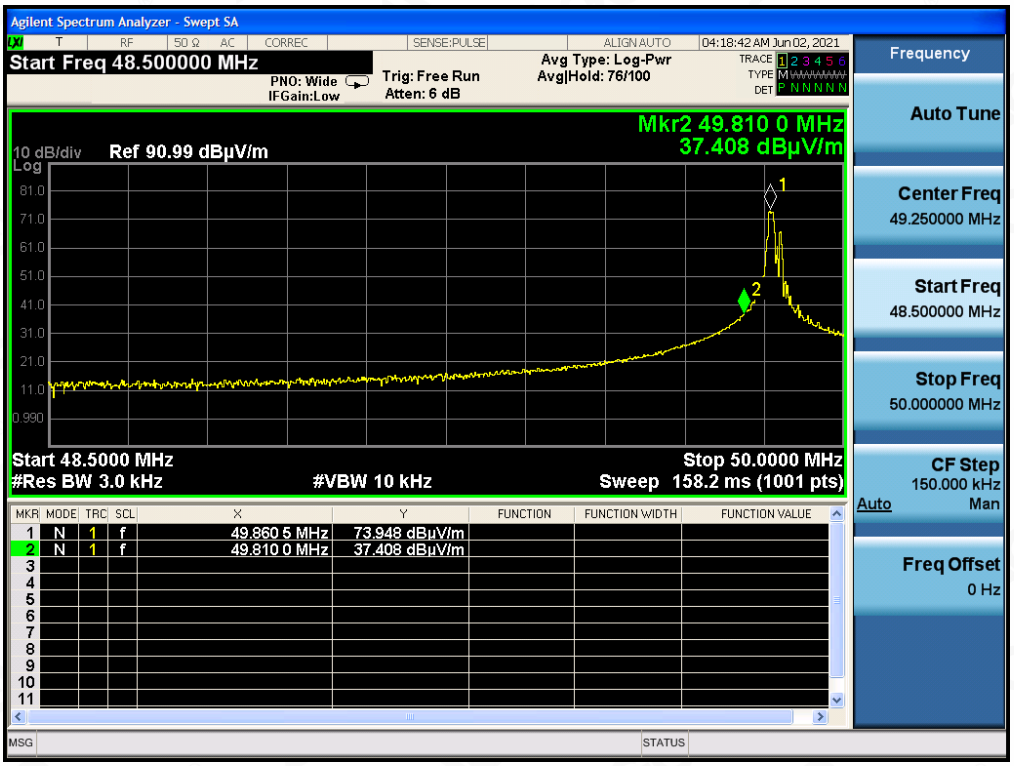
## BAND EDGE EMISSION-Left

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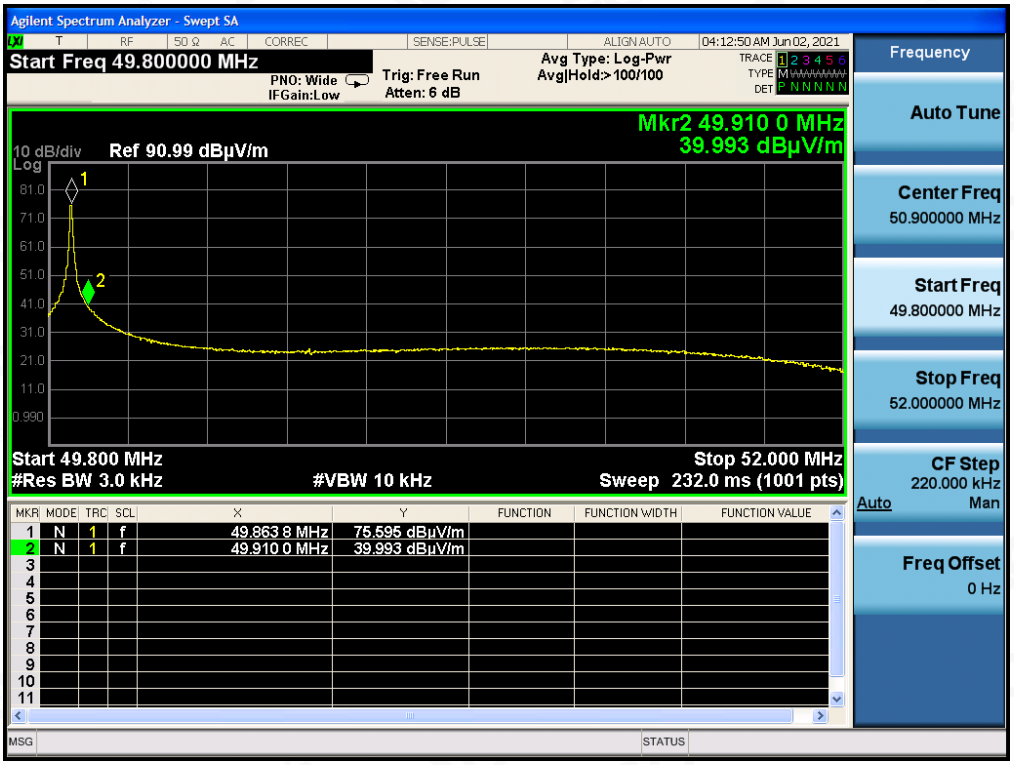
**BAND EDGE EMISSION-Right**




**RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

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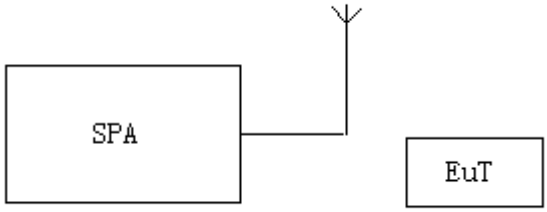
# 9. BANDWIDTH

## 9.1. MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:
   Centre frequency = Operation Frequency
   RBW=510Hz
   VBW=1.5KHz
   Span: 50kHz
   Sweep time: Auto
2. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the “N dB down” function of SPA to define the bandwidth.
3. Record the plots and Reported.

## 9.2. TEST SETUP

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## 9.3. TEST RESULT

| | |
|---|---|
| **TEST ITEM** | 20DB BANDWIDTH |
| **TEST MODULATION** | ASK |

| Test Data (kHz) | | Criteria |
|---|---|---|
| Operate Channel | 8.022 | PASS |

TEST PLOT OF BANDWIDTH

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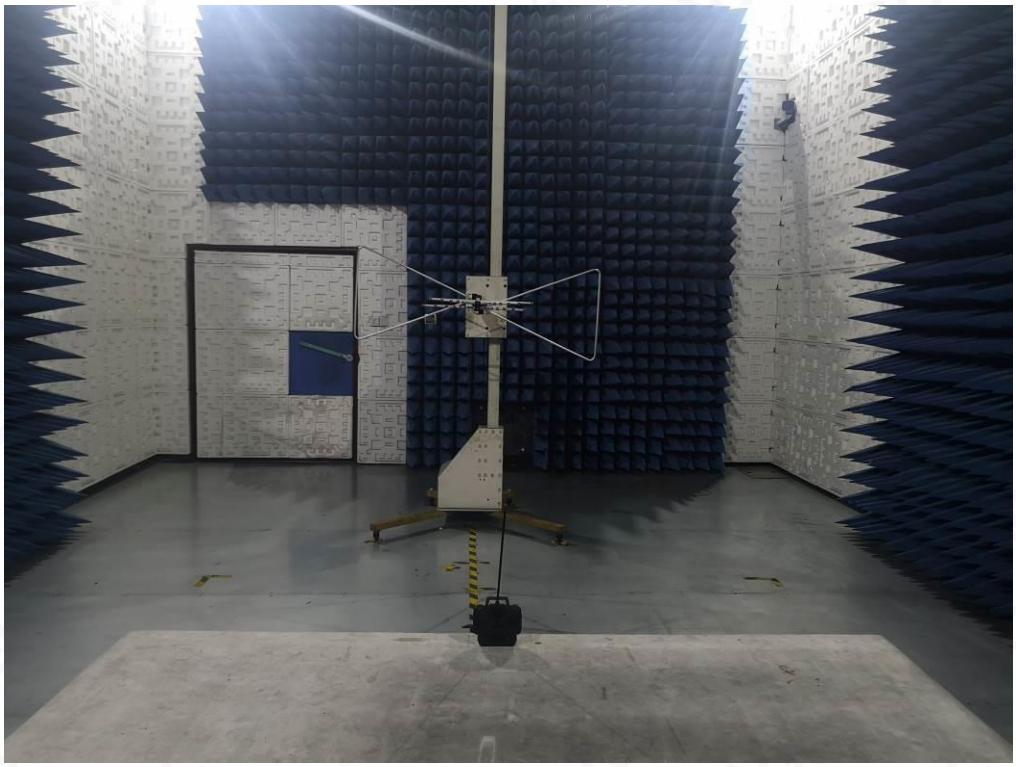
# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP



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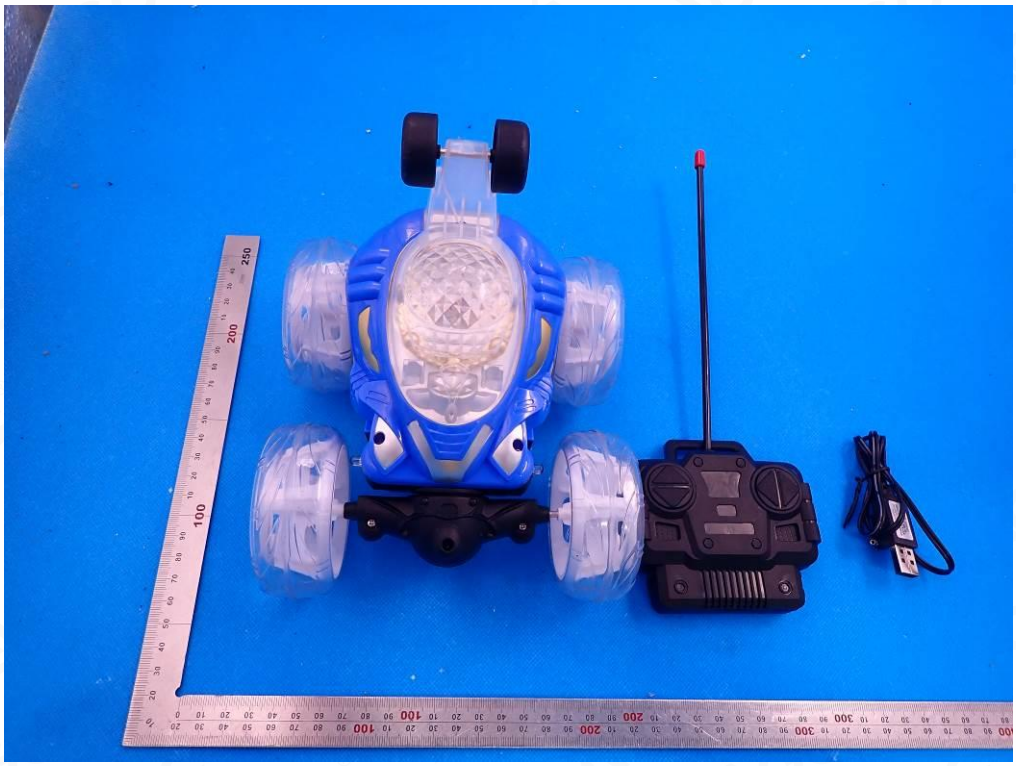
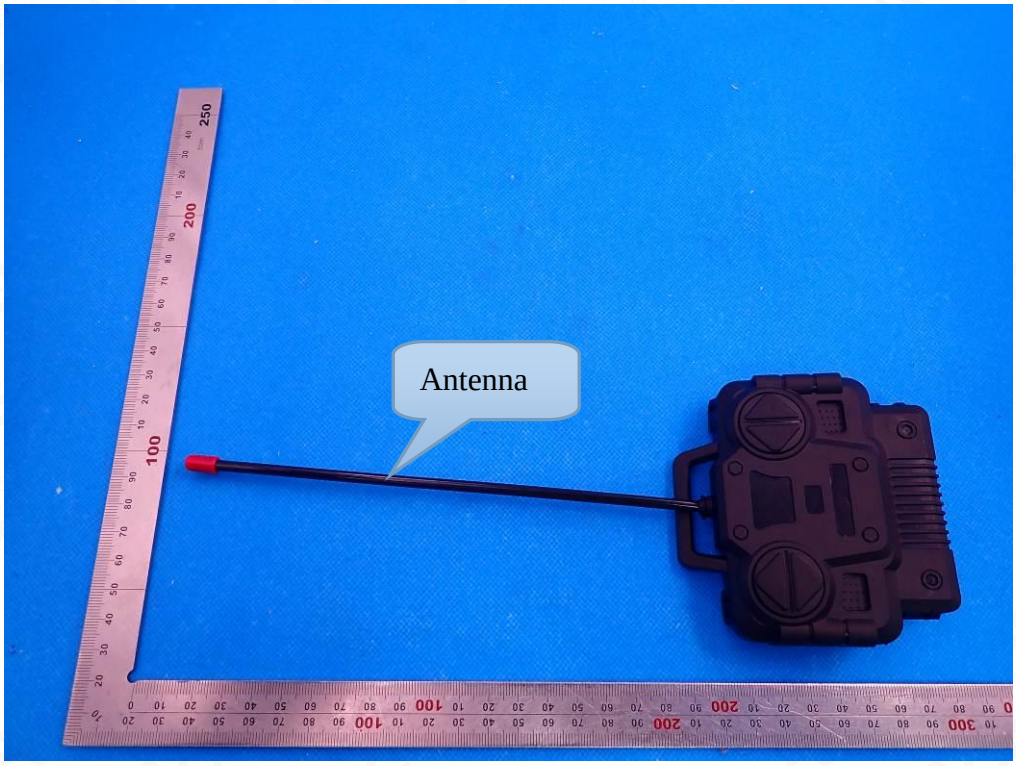
# APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT

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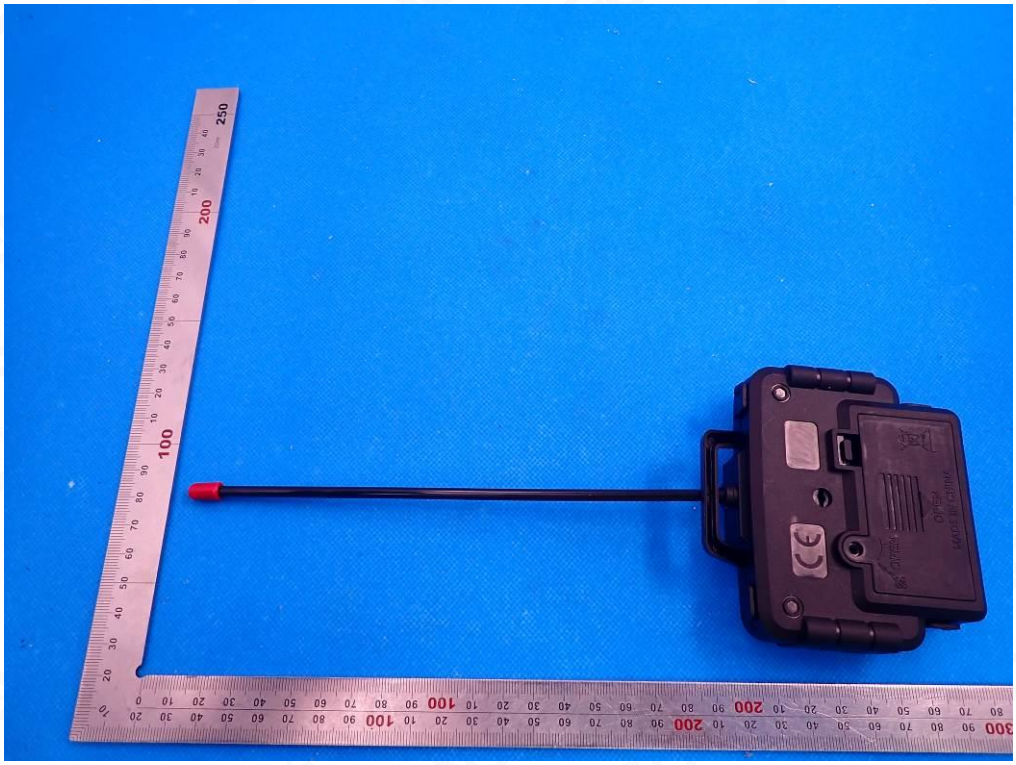
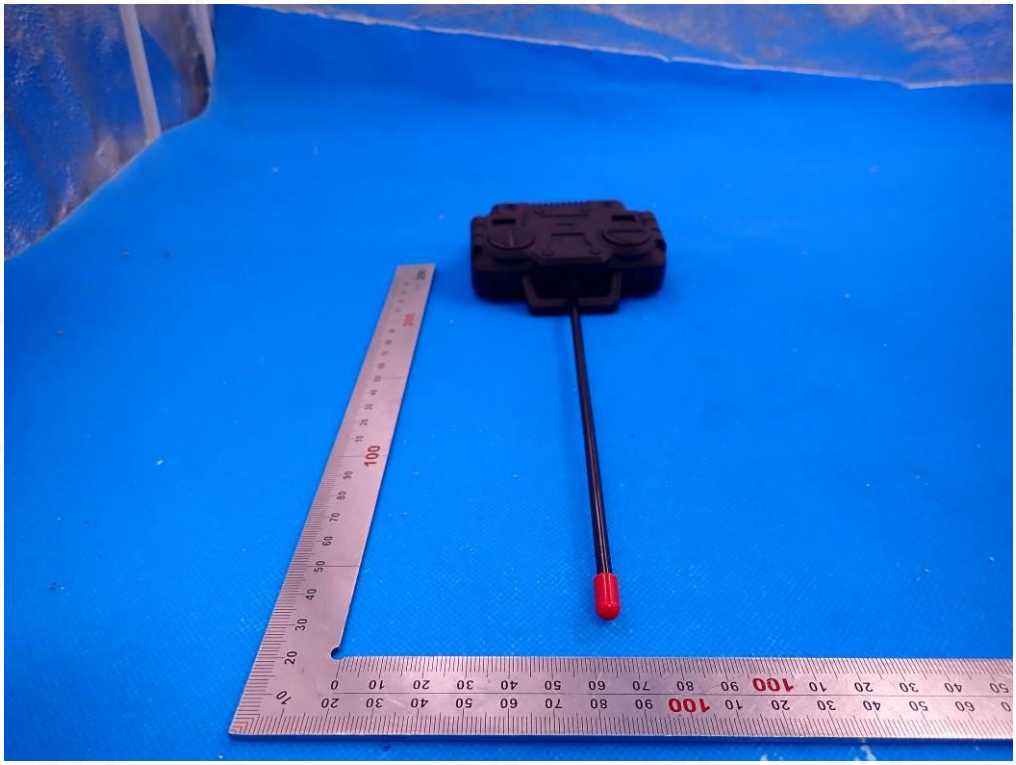
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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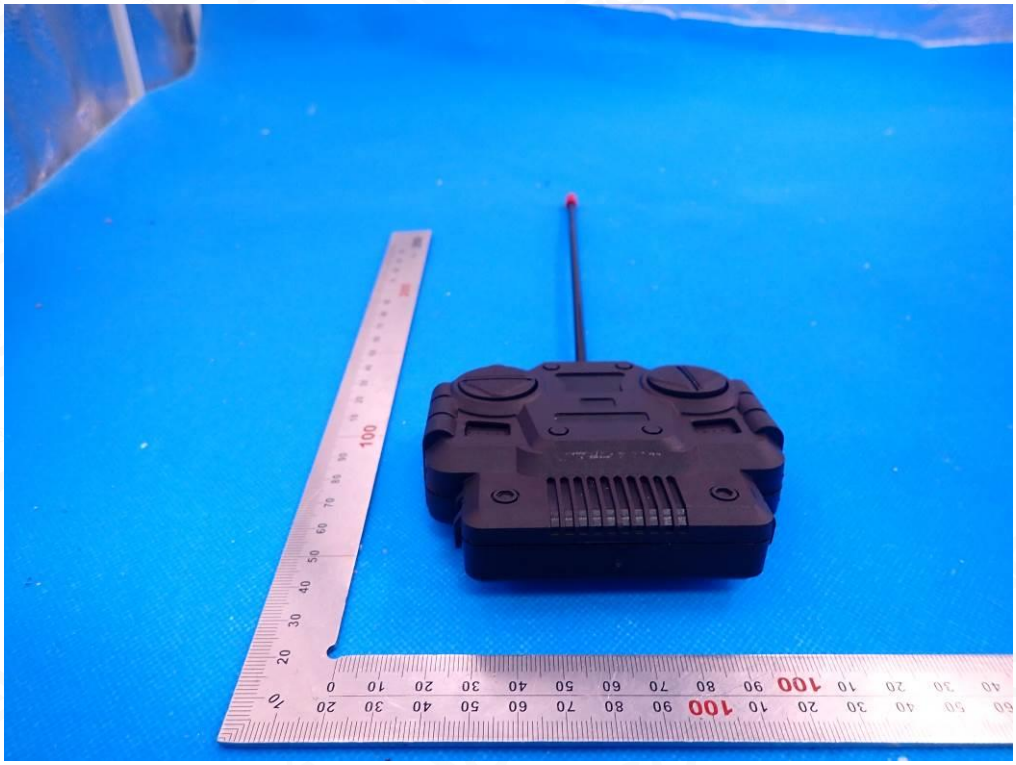
BACK VIEW OF EUT



LEFT VIEW OF EUT

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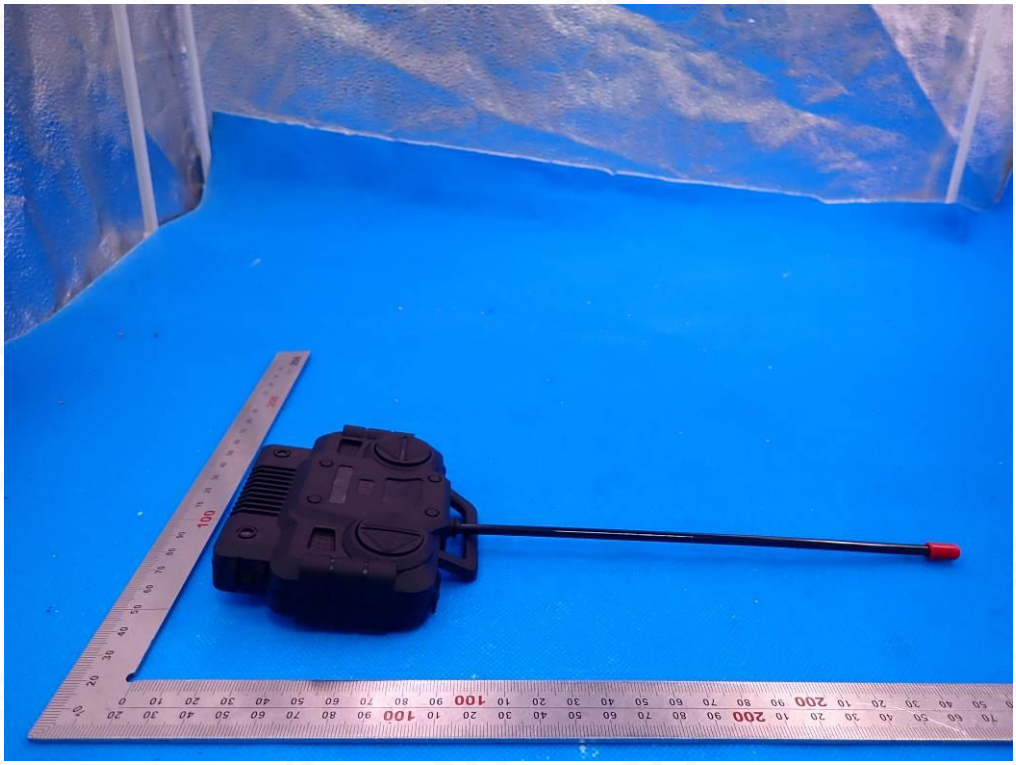
RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1

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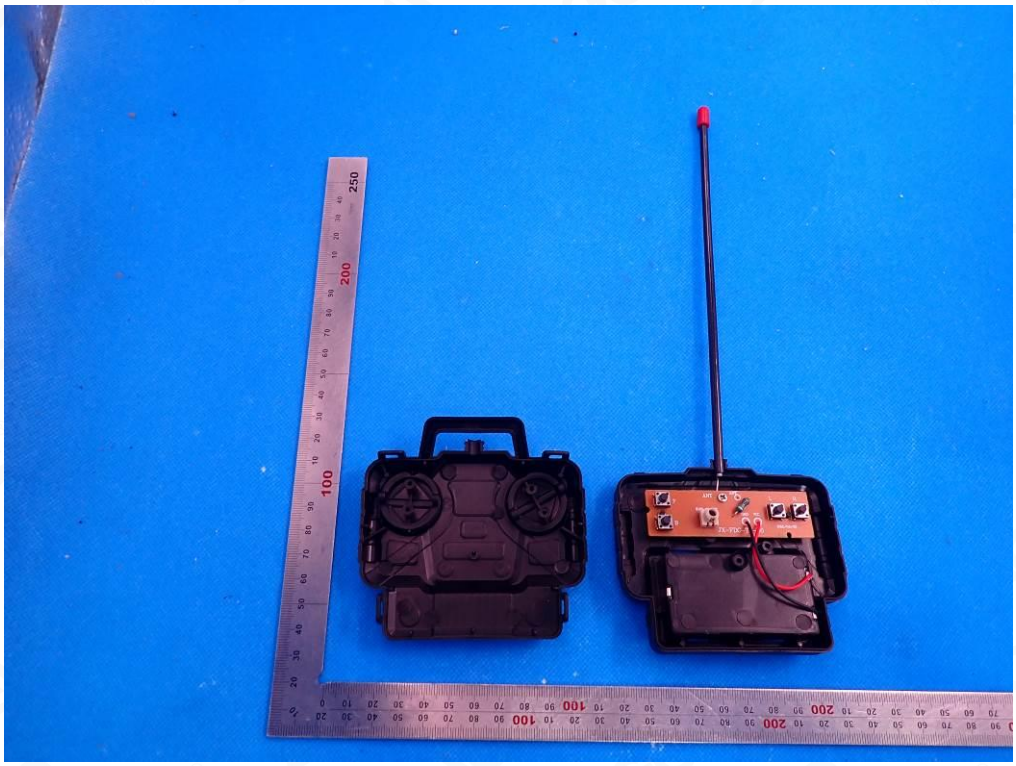
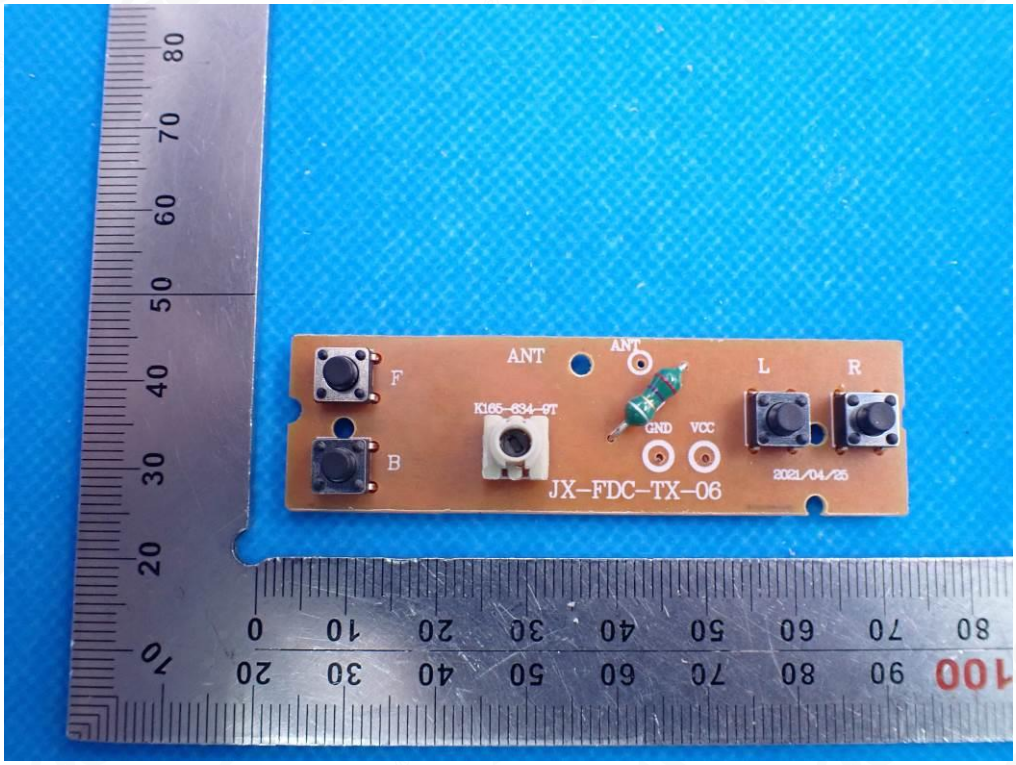
OPEN VIEW OF EUT-2



INTERNAL VIEW-1 OF EUT

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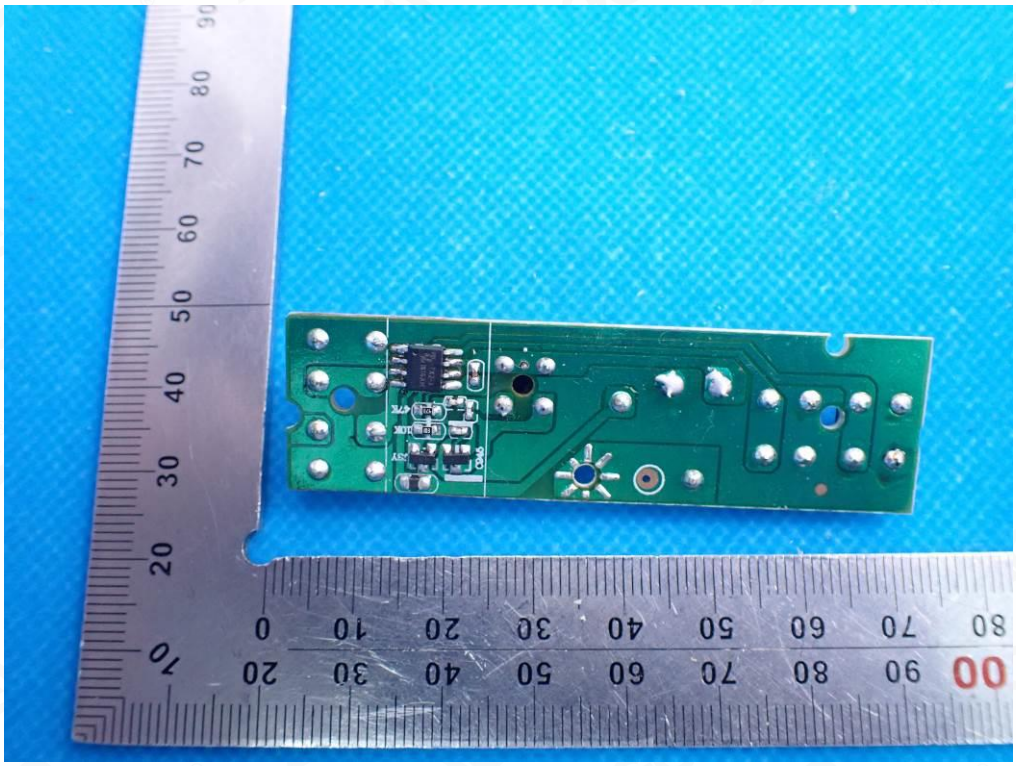
INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT

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

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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

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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