

# FCC TEST REPORT

Client Name : DGL Group LTD.  
Address : 195 Raritan Center Parkway, Edison, New Jersey, United States 08837  
Product Name : GENERIC RC STUNT CAR JAX -WITH REMOTE  
Date : Apr. 26, 2020



**Shenzhen Anbotek Compliance Laboratory Limited**



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# TEST REPORT

Applicant : DGL Group LTD.  
Manufacturer : DGL Group LTD.  
Product Name : GENERIC RC STUNT CAR JAX -WITH REMOTE  
Model No. : WKM-33, AW-RC-JAX, AW-RC-JAX-XXX (X:A~Z)  
Trade Mark : N.A.  
Rating(s) : Input: DC 3V by "AA"\*2 battery inside

**Test Standard(s) : FCC Part15 Subpart C, Section 15.227**

**Test Method(s) : ANSI C63.10: 2013**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Apr. 07, 2020

Date of Test

Apr. 07~16, 2020

Prepared by

*Dolly mo*

(Engineer / Dolly Mo)

Reviewer

*Bibo Zhang*

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

*Tom Chen*

(Manager / Tom Chen)

## 1. General Information

### 1.1. Client Information

|              |   |   |
|--------------|---|---|
| Applicant    | : | DGL Group LTD.  |
| Address      | : | 195 Raritan Center Parkway, Edison, New Jersey, United States 08837 |
| Manufacturer | : | DGL Group LTD.  |
| Address      | : | 195 Raritan Center Parkway, Edison, New Jersey, United States 08837 |
| Factory      | : | DGL Group LTD.  |
| Address      | : | 195 Raritan Center Parkway, Edison, New Jersey, United States 08837 |

### 1.2. Description of Device (EUT)

|   |   |   |                |
|---|---|---|----------------|
| Product Name  | : | GENERIC RC STUNT CAR JAX -WITH REMOTE   |                |
| Model No.   | : | WKM-33, AW-RC-JAX, AW-RC-JAX-XXX (X:A~Z)<br>(Note: All samples are the same except the model appearance, so we prepare "WKM-33" for test only.) |                |
| Trade Mark  | : | N.A.  |                |
| Test Power Supply   | : | DC 3V battery inside  |                |
| Test Sample No.   | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample)   |                |
| Product Description   | : | Operation Frequency:  | 27.145MHz      |
|   | : | Number of Channel:  | 1 Channel      |
|   | : | Modulation Type:  | ASK            |
|   | : | Antenna Type:   | Spring Antenna |
|   | : | Antenna Gain(Peak):   | 3 dBi          |
| <b>Remark:</b> 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |   |   |                |

### 1.3. Auxiliary Equipment Used During Test

|     |  |
|-----|--|
| N/A |  |
|-----|--|

### 1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-------------|
| Mode 1       | CH01        |

| For Radiated Emission |             |
|-----------------------|-------------|
| Final Test Mode       | Description |
| Mode 1                | CH01        |

**Note:**

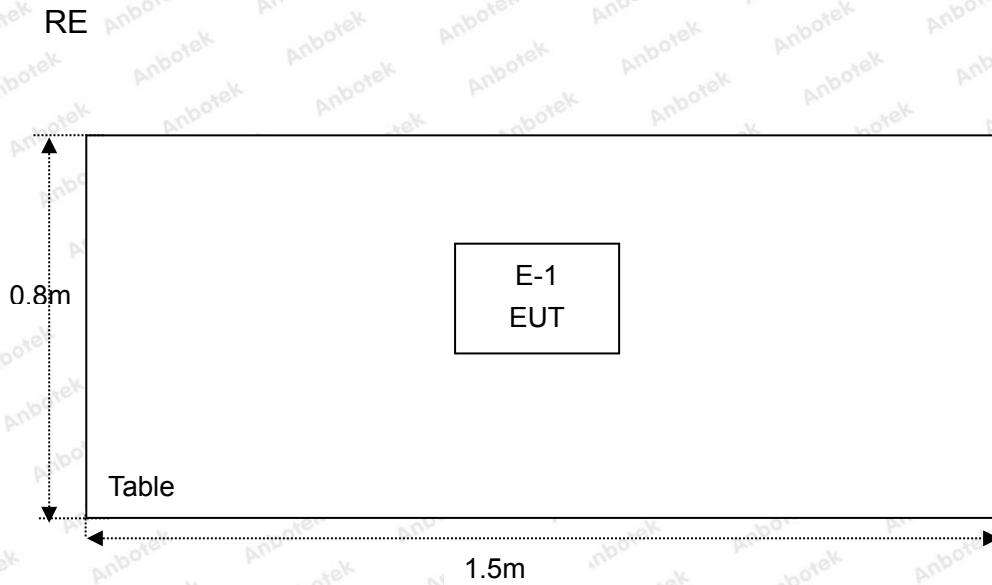
1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

### 1.5. List of Channels

| Channel | Freq.  |
|---------|--------|
|         | (MHz)  |
| 01      | 27.145 |



## 1.6. Description of Test Setup



## 1.7. Test Equipment List

| Item | Equipment                                   | Manufacturer               | Model No.        | Serial No.    | Last Cal.     | Cal. Interval |
|------|---|----------------------------|------------------|---------------|---------------|---------------|
| 1.   | L.I.S.N.<br>Artificial Mains<br>Network     | Rohde & Schwarz            | ENV216           | 100055        | Nov. 04, 2019 | 1 Year        |
| 2.   | EMI Test Receiver                           | Rohde & Schwarz            | ESPI3            | 101604        | Nov. 04, 2019 | 1 Year        |
| 3.   | RF Switching Unit                           | Compliance<br>Direction    | RSU-M2           | 38303         | Nov. 04, 2019 | 1 Year        |
| 4.   | MAX Spectrum<br>Analysis                    | Agilent                    | N9020A           | MY51170037    | Nov. 04, 2019 | 1 Year        |
| 5.   | Preamplifier                                | SKET Electronic            | BK1G18G30<br>D   | KD17503       | Nov. 04, 2019 | 1 Year        |
| 6.   | Double Ridged Horn<br>Antenna               | Instruments<br>corporation | GTH-0118         | 351600        | Nov. 01, 2019 | 1 Year        |
| 7.   | Bilog Broadband<br>Antenna                  | Schwarzbeck                | VULB9163         | VULB 9163-289 | Nov. 01, 2019 | 1 Year        |
| 8.   | Loop Antenna                                | Schwarzbeck                | FMZB1519B        | 00053         | Nov. 01, 2019 | 1 Year        |
| 9.   | Horn Antenna                                | A-INFO                     | LB-180400-K<br>F | J211060628    | Nov. 01, 2019 | 1 Year        |
| 10.  | Pre-amplifier                               | SONOMA                     | 310N             | 186860        | Nov. 04, 2019 | 1 Year        |
| 11.  | EMI Test Software<br>EZ-EMC                 | SHURPLE                    | N/A              | N/A           | N/A           | N/A           |
| 12.  | RF Test Control<br>System                   | YIHENG                     | YH3000           | 2017430       | Nov. 04, 2019 | 1 Year        |
| 13.  | Power Sensor                                | DAER                       | RPR3006W         | 15I00041SN045 | Nov. 04, 2019 | 1 Year        |
| 14.  | Power Sensor                                | DAER                       | RPR3006W         | 15I00041SN046 | Nov. 04, 2019 | 1 Year        |
| 15.  | MXA Spectrum<br>Analysis                    | Agilent                    | N9020A           | MY51170037    | Nov. 04, 2019 | 1 Year        |
| 16.  | MXG RF Vector<br>Signal Generator           | Agilent                    | N5182A           | MY48180656    | Nov. 04, 2019 | 1 Year        |
| 17.  | Signal Generator                            | Agilent                    | E4421B           | MY41000743    | Nov. 04, 2019 | 1 Year        |
| 18.  | DC Power Supply                             | LW                         | TPR-6420D        | 374470        | Nov. 04, 2019 | 1 Year        |
| 19.  | Constant<br>Temperature<br>Humidity Chamber | ZHONGJIAN                  | ZJ-KHWS80<br>B   | N/A           | Nov. 04, 2019 | 1 Year        |

### 1.8. Measurement Uncertainty

|                        |   |                          |
|------------------------|---|--------------------------|
| Radiation Uncertainty  | : | Ur = 3.9 dB (Horizontal) |
|                        |   | Ur = 3.8 dB (Vertical)   |
| Conduction Uncertainty | : | Uc = 3.4 dB              |

### 1.9. Description of Test Facility

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

#### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 27, 2019.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

#### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



## 2. Summary of Test Results

| Standard Section  | Test Item               | Result |
|---|-------------------------|--------|
| 15.203  | Antenna Requirement     | PASS   |
| 15.207  | Conducted Emission      | N/A    |
| 15.205/15.209/15.227  | Spurious Emission       | PASS   |
| 15.215(c)   | 20dB Occupied Bandwidth | PASS   |
| <b>Remark:</b> "N/A" is an abbreviation for Not Applicable. |                         |        |



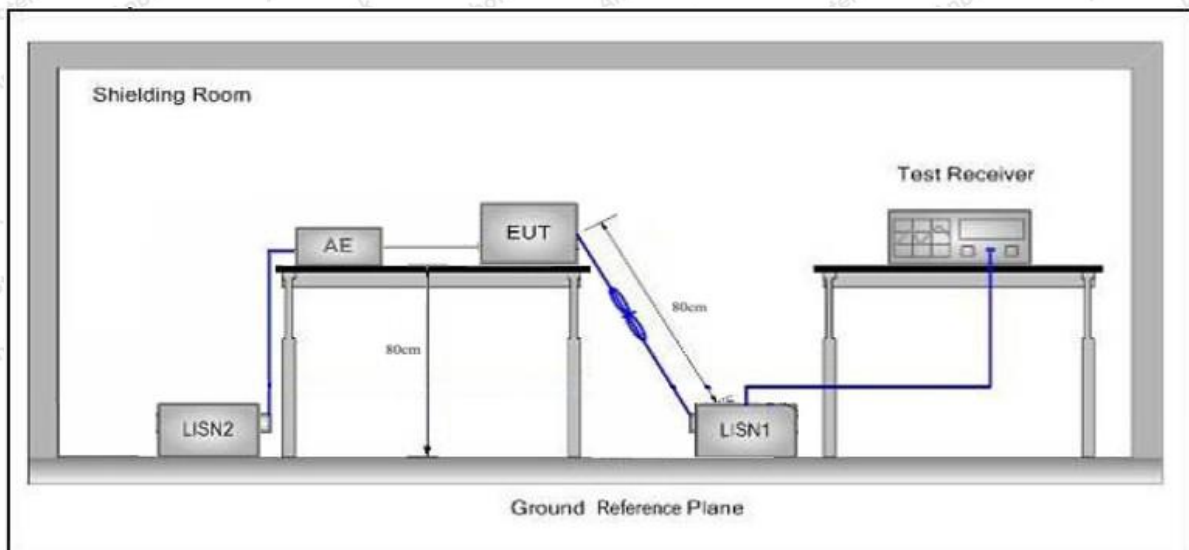
## 3. Conducted Emission Test

### 3.1. Test Standard and Limit

| Test Standard | FCC Part15 Section 15.207 |                                |               |
|---------------|---------------------------|--------------------------------|---------------|
| Test Limit    | Frequency                 | Maximum RF Line Voltage (dBuV) |               |
|               |                           | Quasi-peak Level               | Average Level |
|               | 150kHz~500kHz             | 66 ~ 56 *                      | 56 ~ 46 *     |
|               | 500kHz~5MHz               | 56                             | 46            |
|               | 5MHz~30MHz                | 60                             | 50            |

**Remark:** (1) \*Decreasing linearly with logarithm of the frequency.  
 (2) The lower limit shall apply at the transition frequency.

### 3.2. Test Setup



### 3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

### 3.4. Test Data

The EUT is powered by DC 3V battery inside, so there is no need to conduct this test.

## 4. Radiated Emission and Band Edge

### 4.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.209, 15.205 and 15.227(a) |                                  |                |            |                          |
|---------------|---|----------------------------------|----------------|------------|--------------------------|
| Test Limit    | Frequency (MHz)                                   | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark     | Measurement distance (m) |
|               | 0.009MHz~0.490MHz                                 | 2400/F(kHz)                      | -              | -          | 300                      |
|               | 0.490MHz-1.705MHz                                 | 24000/F(kHz)                     | -              | -          | 30                       |
|               | 1.705MHz-30MHz                                    | 30                               | -              | -          | 30                       |
|               | 30MHz~88MHz                                       | 100                              | 40.0           | Quasi-peak | 3                        |
|               | 88MHz~216MHz                                      | 150                              | 43.5           | Quasi-peak | 3                        |
|               | 216MHz~960MHz                                     | 200                              | 46.0           | Quasi-peak | 3                        |
|               | 960MHz~1000MHz                                    | 500                              | 54.0           | Quasi-peak | 3                        |
|               | Above 1000MHz                                     | 500                              | 54.0           | Average    | 3                        |
| -             |   | 74.0                             | Peak           | 3          |                          |

**Remark:**

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission

According to §15.227(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

$$\text{Emission Level (dBuV/m)} = 20 \log \text{Emission Level (uV/m)}$$

The field strength of emission limits have been calculated in below table:

| Fundamental Frequency (MHz) | Field Strength of Fundamental (dBuV/m)@3m |
|-----------------------------|---|
| 26.96~27.28                 | 80.0 (AVG)                                |
| 26.96~27.28                 | 100.0 (Peak)                              |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average

detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

## 4.2. Test Setup

Figure 1. Below 30MHz

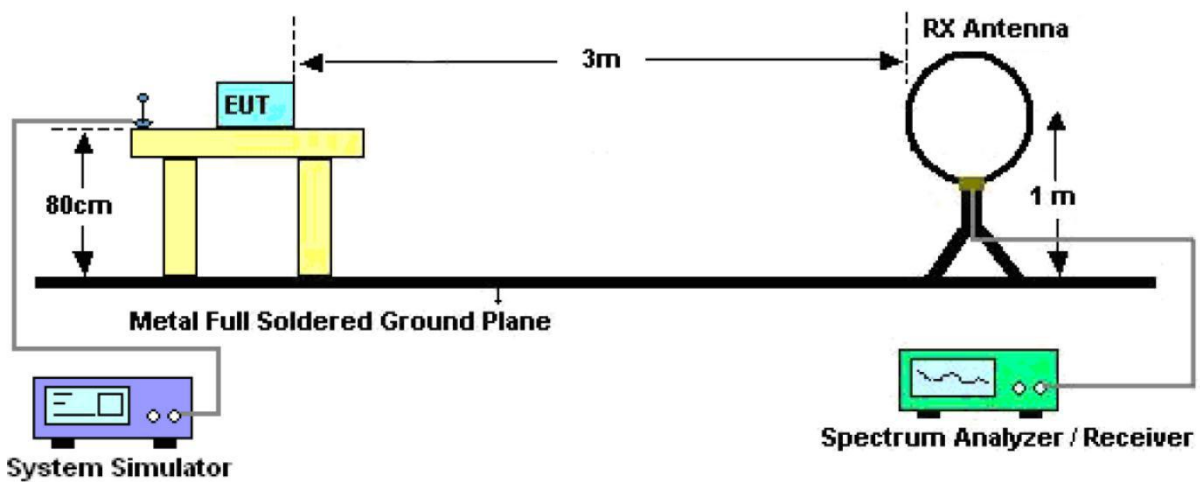


Figure 2. 30MHz to 1GHz

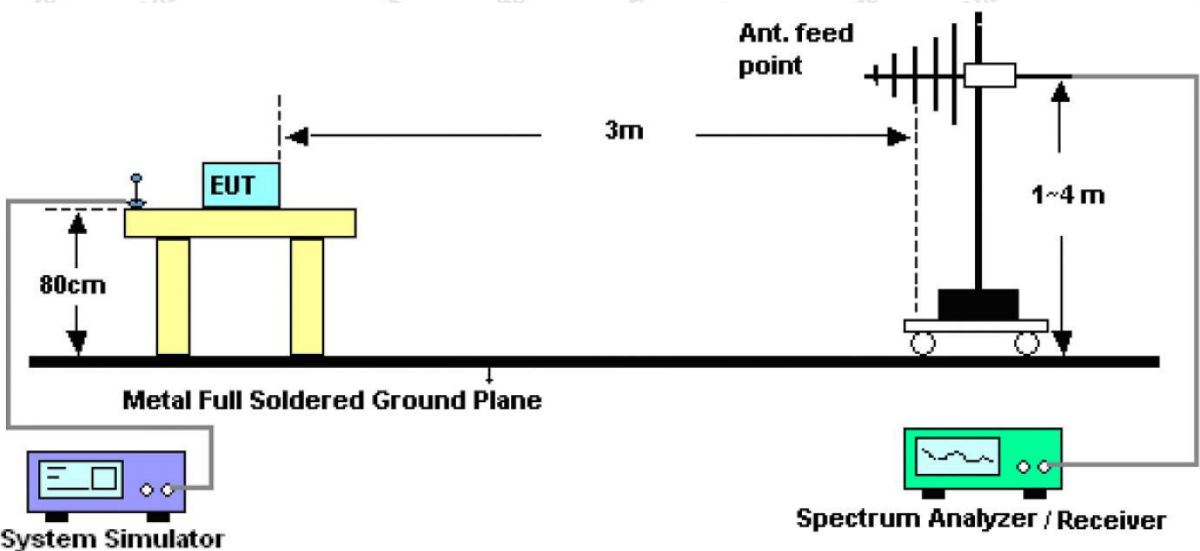
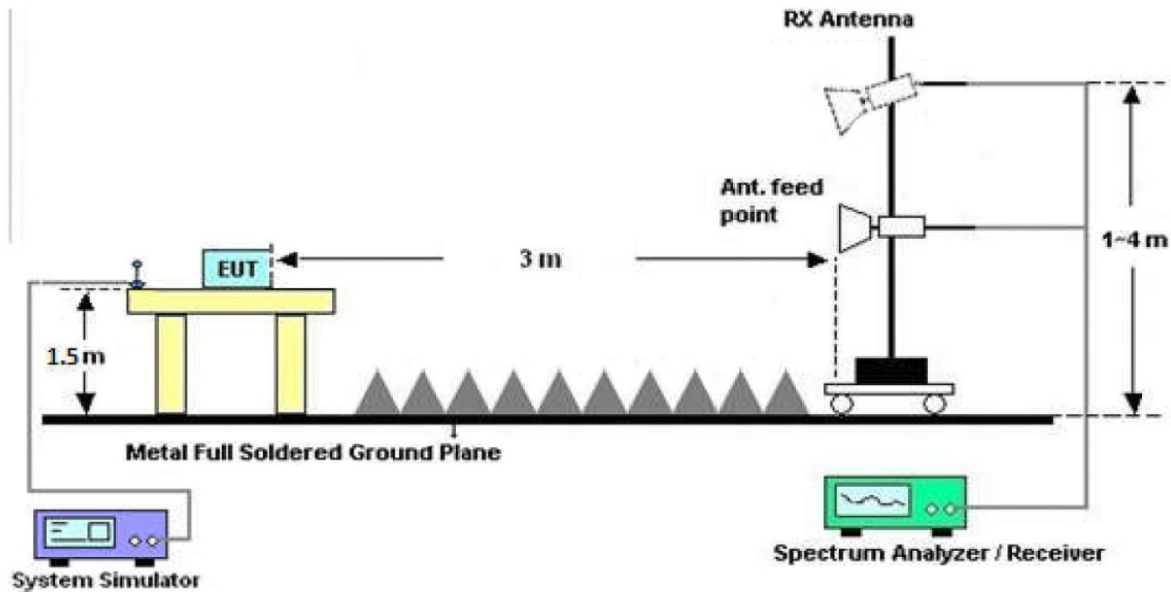


Figure 3. Above 1 GHz



### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9kHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

### 4.4. Test Data

#### PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report, Only report the fundamental frequency results.

**Test Results (Fundamental 27.145MHz)**

| Frequency | Antenna | Reading  | Cable Loss | Ant Factor | Amplifier | Duty cycle Factor | Results  | Limits   | Det. |
|-----------|---------|----------|------------|------------|-----------|-------------------|----------|----------|------|
| (MHz)     | Pol.    | (dBuV/m) | (dB)       | (dB)       | (dB)      | (dB)              | (dBuV/m) | (dBuV/m) | Mode |
| 27.145    | /       | 55.18    | 1.12       | -16.70     | 0.00      | --                | 39.60    | 100.00   | PK   |
| 27.145    | /       | 55.18    | 1.12       | -16.70     | 0.00      | -4.12             | 35.48    | 80.00    | AV   |

Remark :

1. Result = Reading + Cable Loss +Ant Factor –Amplifier + Duty cycle Factor

3. Duty Cycle Factor

**Calculate Formula:**

AV=PEAK +Duty Cycle Factor

Duty Cycle Factor=20log(Duty Cycle)

Duty Cycle= on time/ period

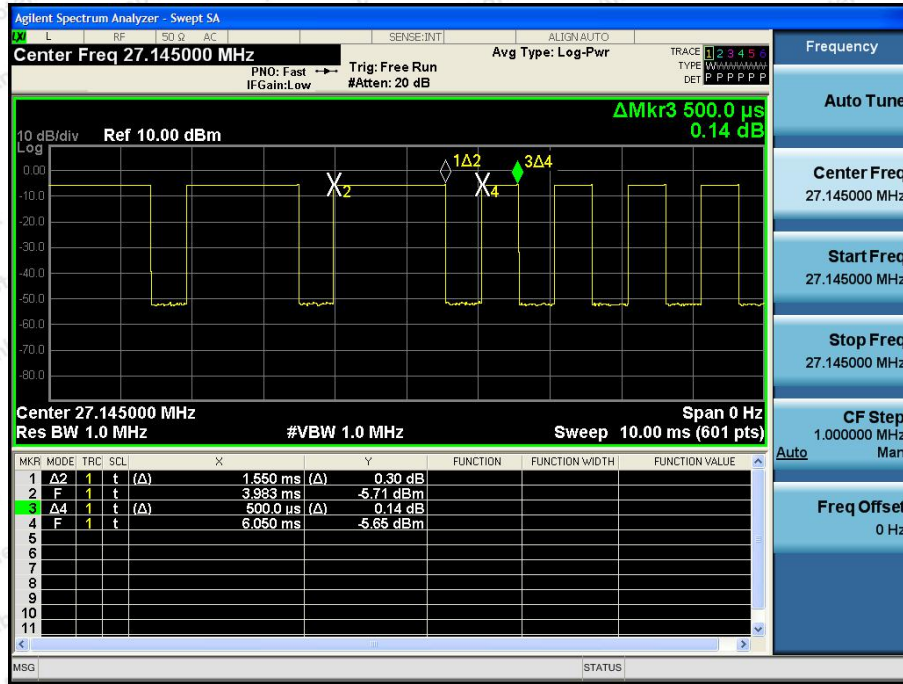
**Test Data:**

T on time=1.55ms\*4+0.5ms\*10=11.20ms

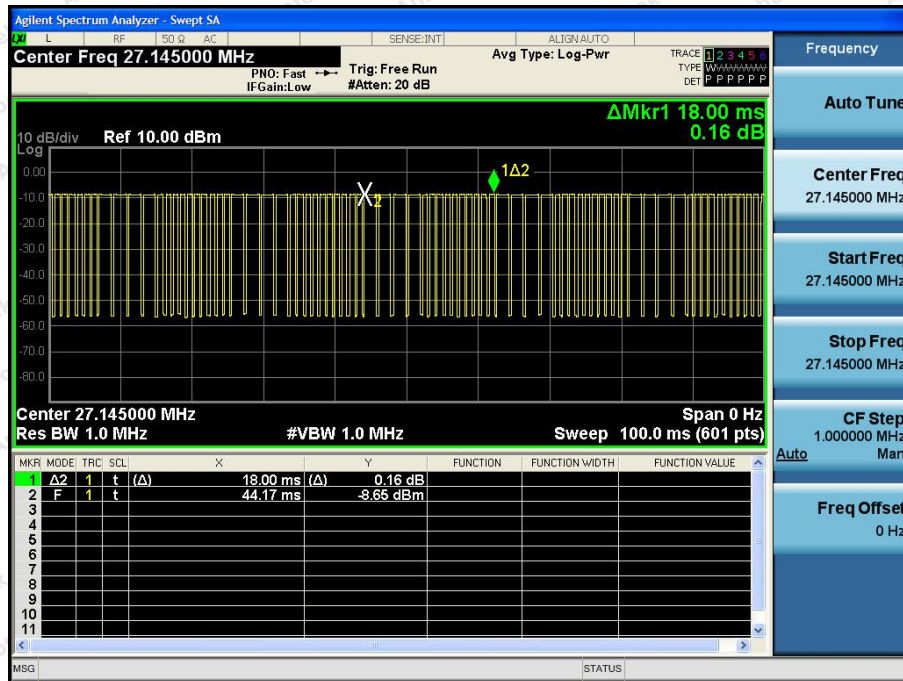
T period=18.0ms

Duty Cycle=62.22%

Duty Cycle Factor =20log(Duty Cycle)=-4.12



T period



**Test Results (Radiated Emission: 30M-1GHz)**

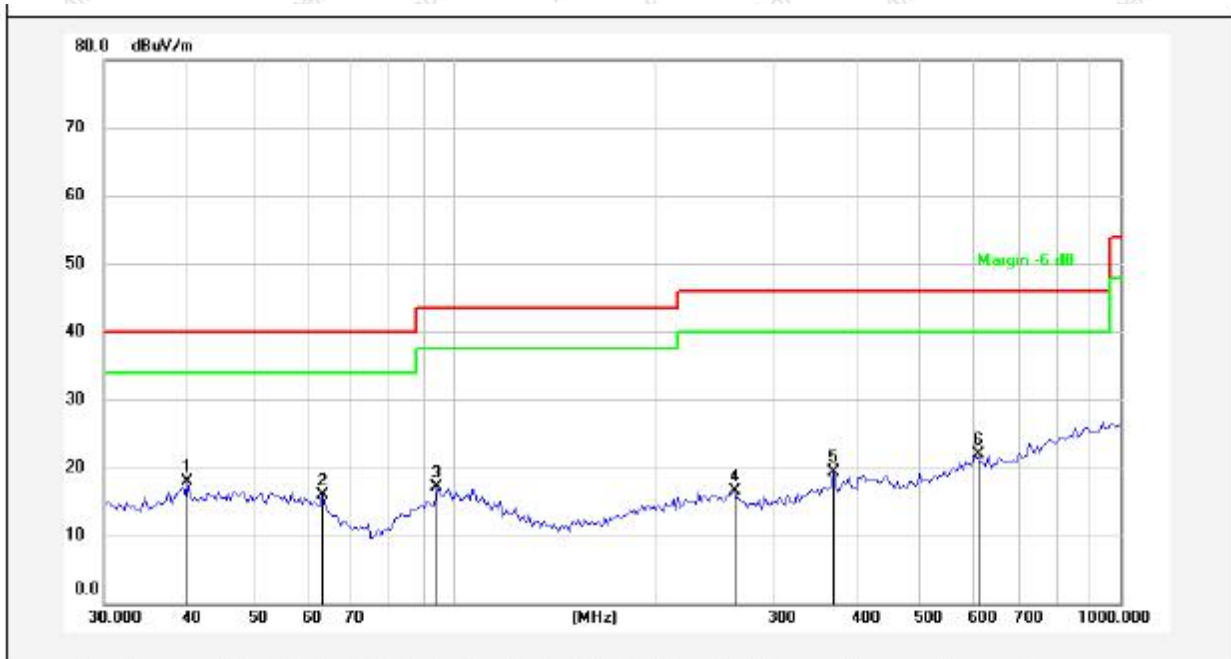
Test Mode: CH01  
 Power Source: DC 3V Battery inside  
 Polarization: Vertical  
 Temp.(°C)/Hum.(%RH): 23.0°C/56%RH



| No. | Freq. (MHz) | Reading (dBUV) | Factor ( ) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1   | 39.7146     | 34.32          | -15.64     | 18.68           | 40.00          | -21.32          | QP       | 100         | 360          |        |
| 2   | 55.9026     | 32.53          | -16.17     | 16.36           | 40.00          | -23.64          | QP       | 100         | 0            |        |
| 3   | 94.5941     | 32.88          | -16.21     | 16.67           | 43.50          | -26.83          | QP       | 100         | 360          |        |
| 4   | 250.3012    | 32.93          | -16.19     | 16.74           | 46.00          | -29.26          | QP       | 100         | 0            |        |
| 5   | 419.8436    | 33.77          | -14.42     | 19.35           | 46.00          | -26.65          | QP       | 100         | 360          |        |
| 6   | 846.5708    | 33.88          | -8.31      | 25.57           | 46.00          | -20.43          | QP       | 100         | 0            |        |



Test Mode: CH01  
 Power Source: DC 3V Battery inside  
 Polarization: Horizontal  
 Temp.(°C)/Hum.(%RH): 23.0°C/56%RH



| No. | Freq. (MHz) | Reading (dBuV) | Factor ( ) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1   | 40.0644     | 33.38          | -15.57     | 17.81           | 40.00          | -22.19          | QP       | 100         | 0            |        |
| 2   | 63.7588     | 33.70          | -17.88     | 15.82           | 40.00          | -24.18          | QP       | 100         | 360          |        |
| 3   | 94.5941     | 33.39          | -16.21     | 17.18           | 43.50          | -26.32          | QP       | 100         | 360          |        |
| 4   | 261.5164    | 32.87          | -16.28     | 16.59           | 46.00          | -29.41          | QP       | 100         | 0            |        |
| 5   | 371.3528    | 34.61          | -15.34     | 19.27           | 46.00          | -26.73          | QP       | 100         | 360          |        |
| 6   | 606.7221    | 33.91          | -12.07     | 21.84           | 46.00          | -24.16          | QP       | 100         | 0            |        |

Remark:

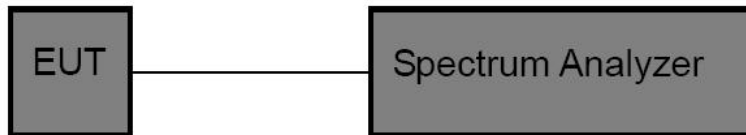
1. Results = Reading + Cable Loss +Ant Factor –Amplifier

## 5. 20dB Bandwidth Test

### 5.1. Test Standard and Limit

|               |  |
|---------------|--|
| Test Standard | FCC Part15 C Section 15.215  |
| Test Limit    | <p>15.215(c), Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.</p> <p>Operation within the band: 26.96 – 27.28 MHz</p> |

### 5.2. Test Setup



### 5.3. Test Procedure

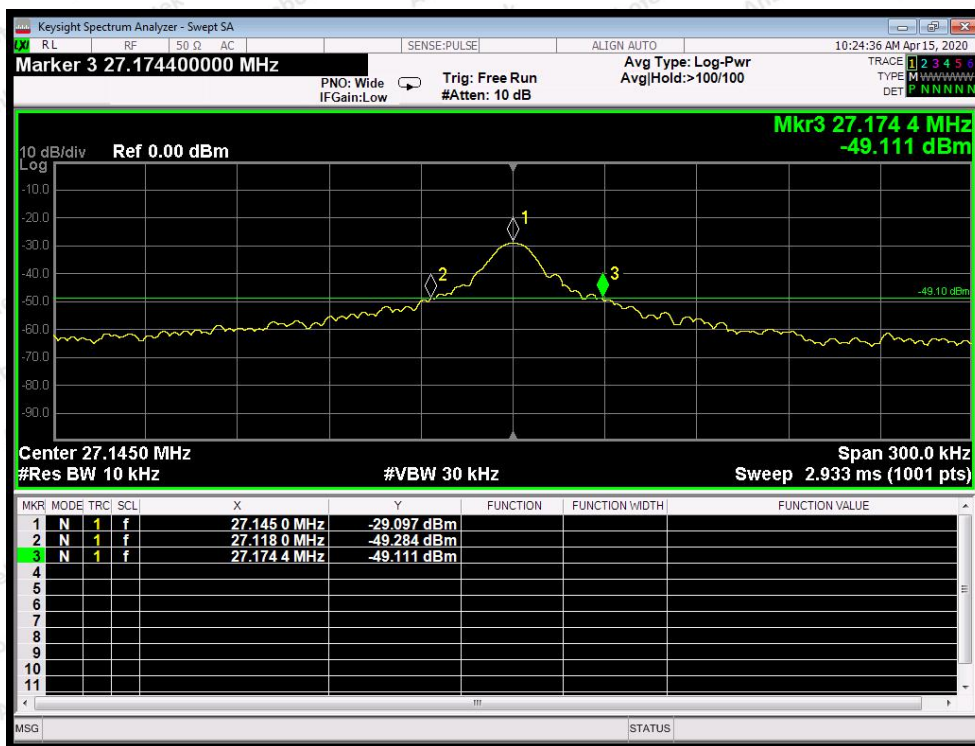
1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
  - RBW = 30kHz, VBW ≥ 3 \* RBW = 100kHz,
  - Detector = Average
  - Trace mode = Max hold.
  - Sweep - auto couple.
4. Mark the peak frequency and -20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

### 5.4. Test Data

Test Item : 20dB Bandwidth  
 Test Voltage : DC 3V battery inside  
 Test Result : PASS

Test Mode : Mode 1  
 Temperature : 22.4°C  
 Humidity : 55%RH

| FI(MHz) | Fh(MHz) | Permitted frequency range(MHz) | Result |
|---------|---------|--------------------------------|--------|
| 27.1180 | 27.1744 | 26.96-27.28                    | PASS   |



20 dB BW

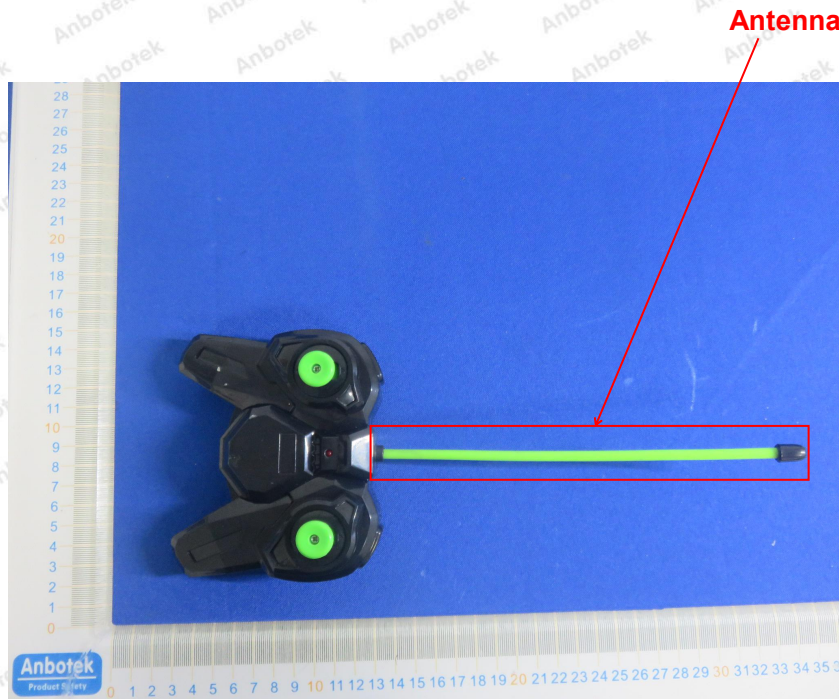
## 6. Antenna Requirement

### 6.1. Test Standard and Requirement

|               |  |
|---------------|--|
| Test Standard | FCC Part15 Section 15.203  |
| Requirement   | 1) 15.203 requirement:<br>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. |

### 6.2. Antenna Connected Construction

The antenna is a Spring Antenna which permanently attached, and the best case gain of the antenna is 3 dBi. It complies with the standard requirement.



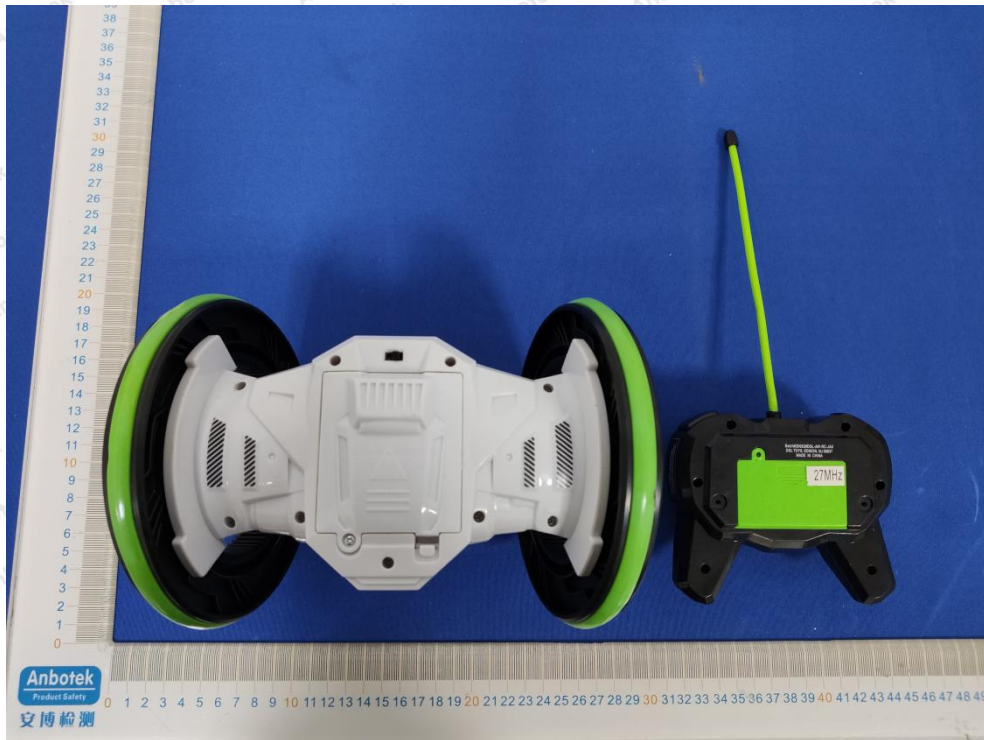
## APPENDIX I -- TEST SETUP PHOTOGRAPH

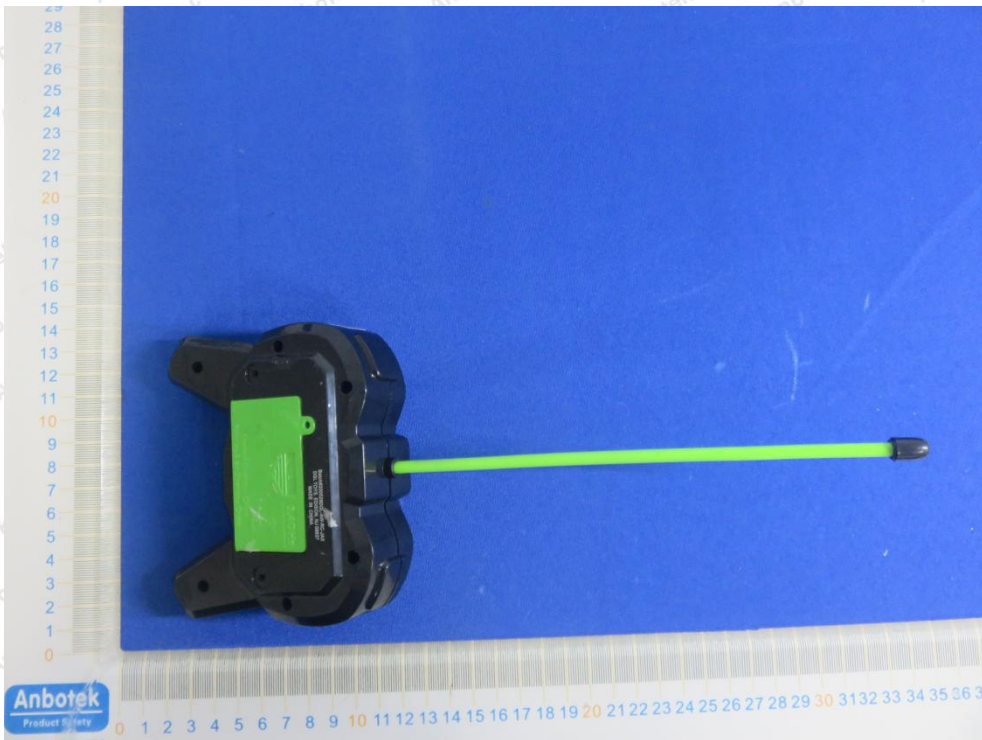
Photo of Radiation Emission Test



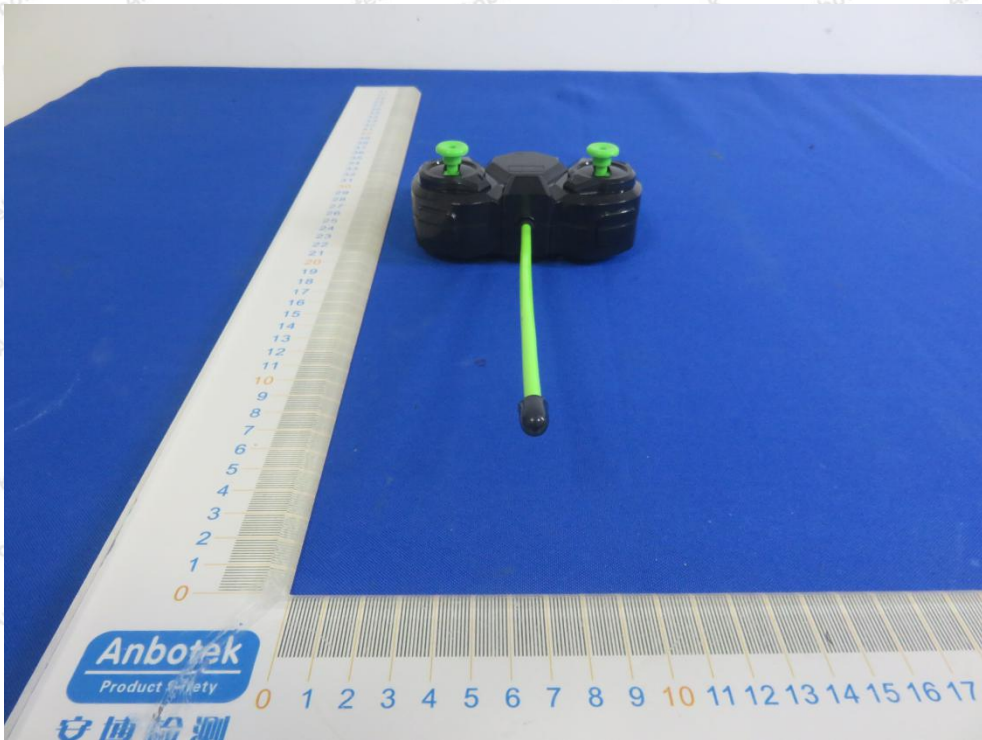
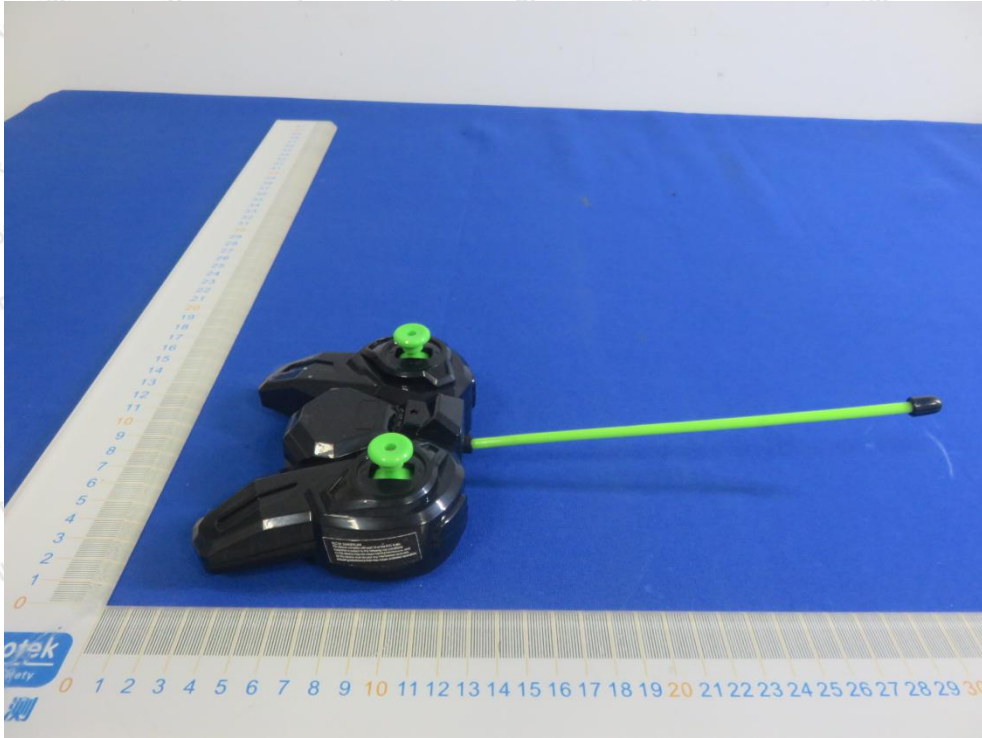
## APPENDIX II -- EXTERNAL PHOTOGRAPH

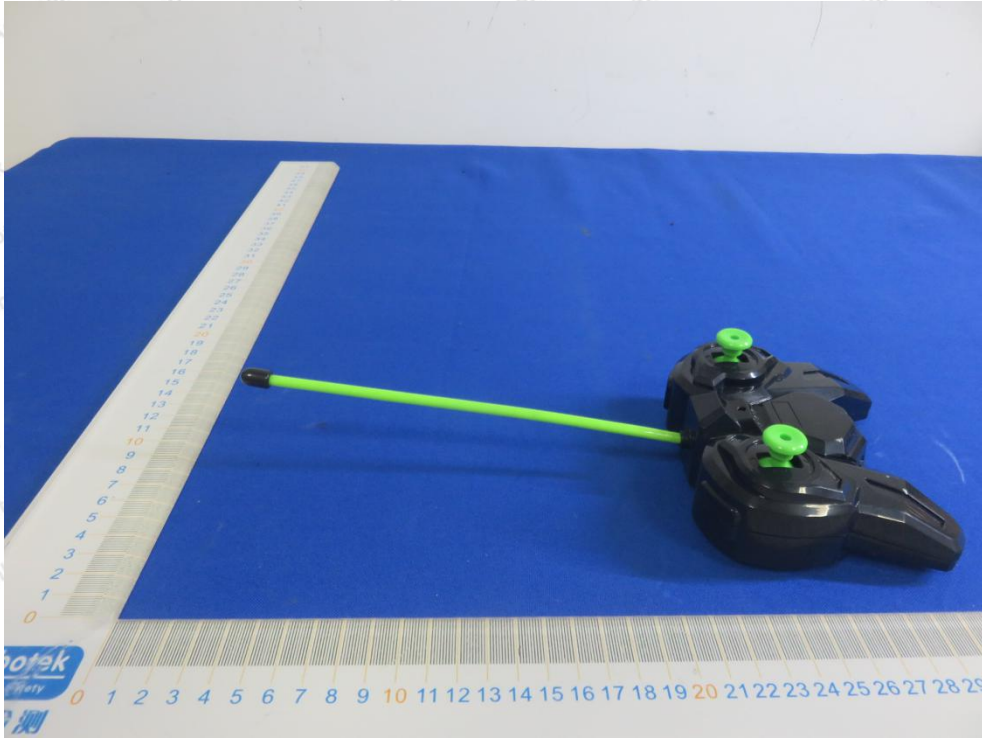




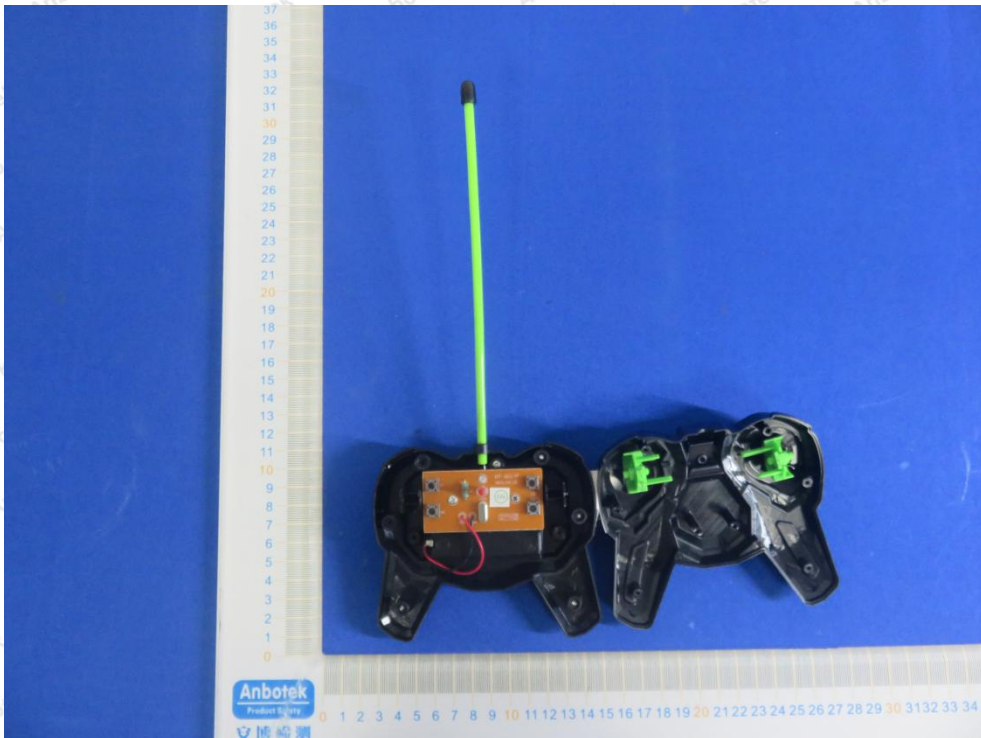
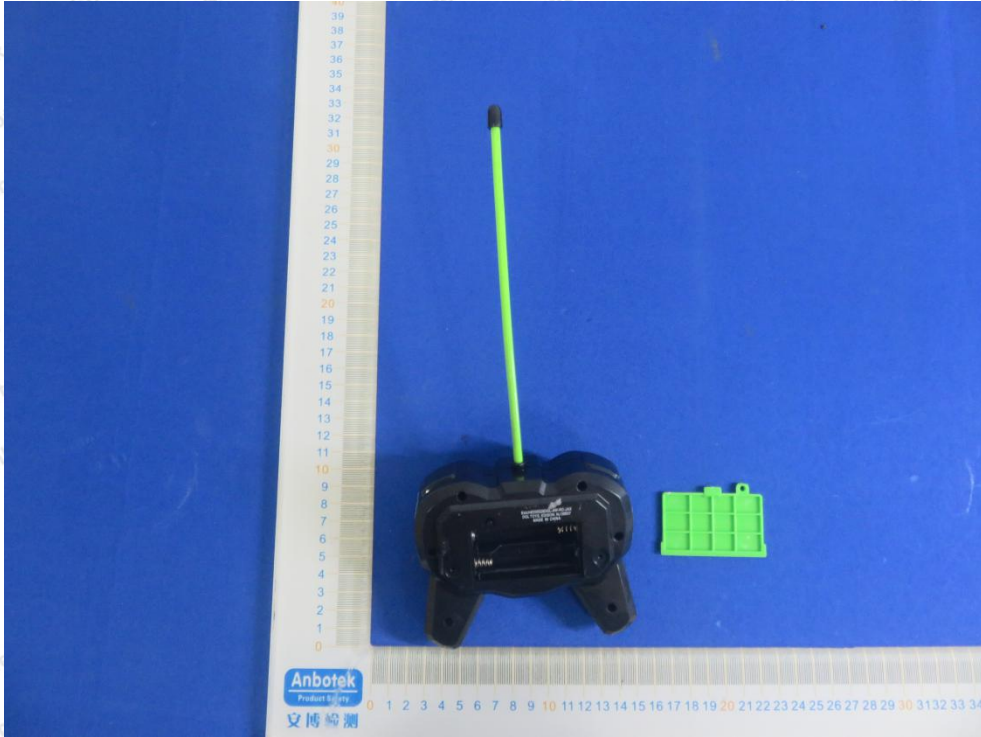


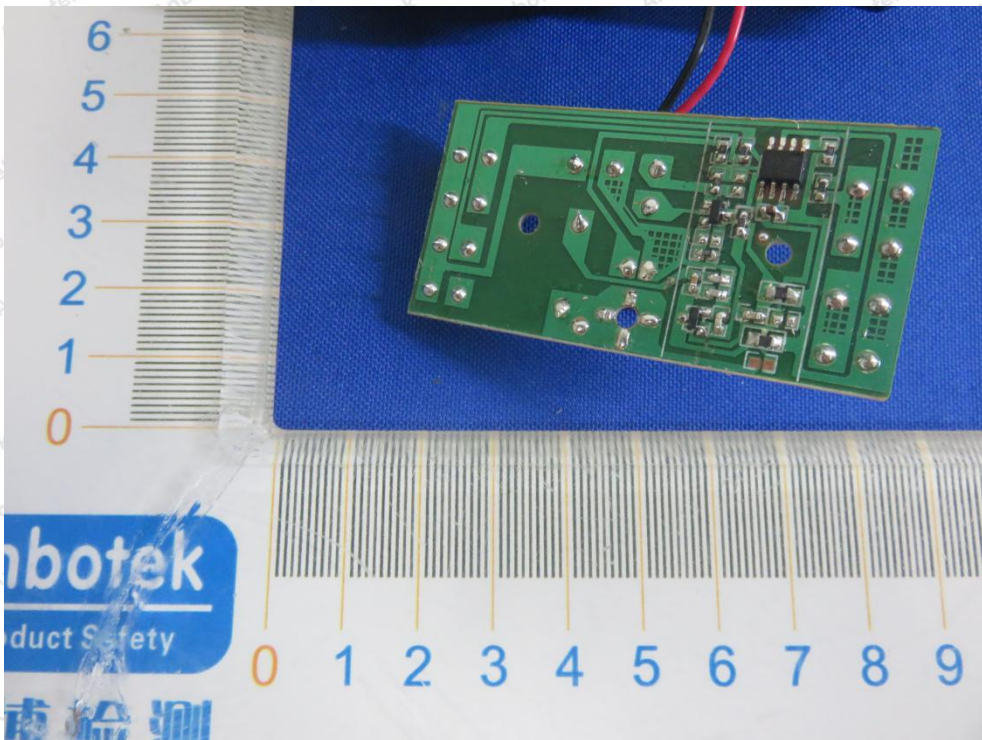
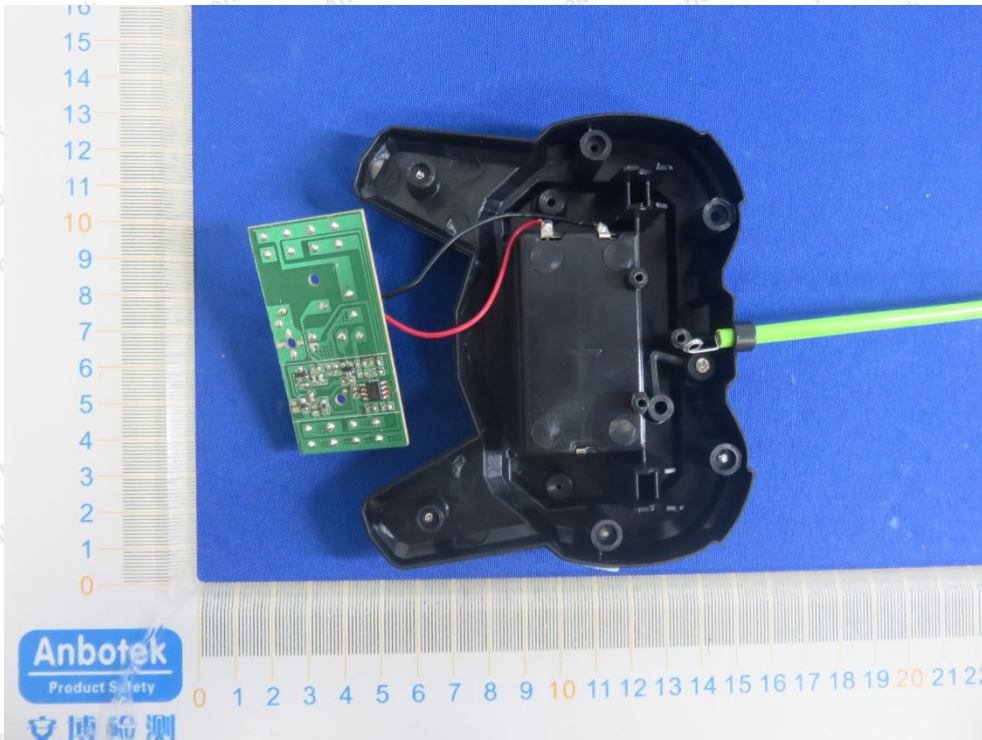


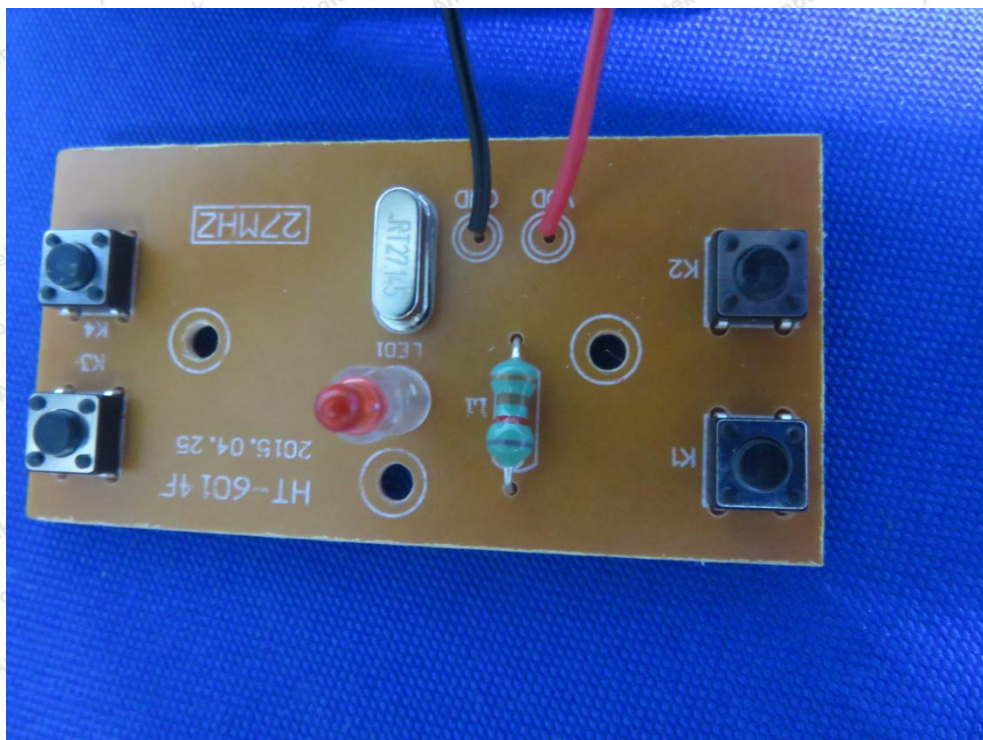
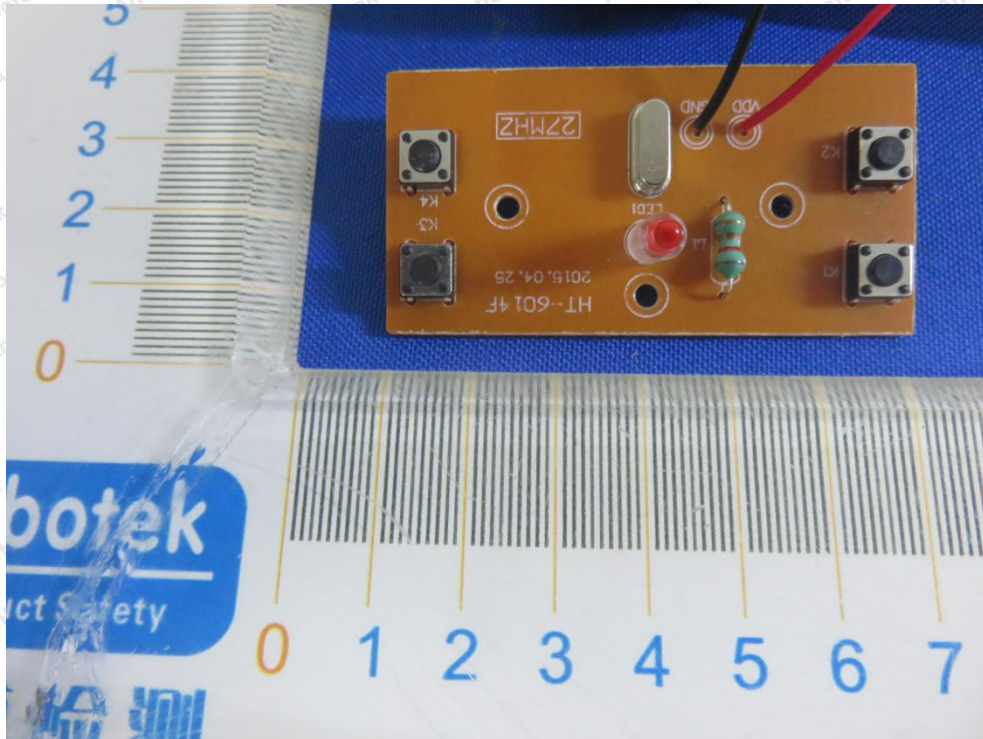


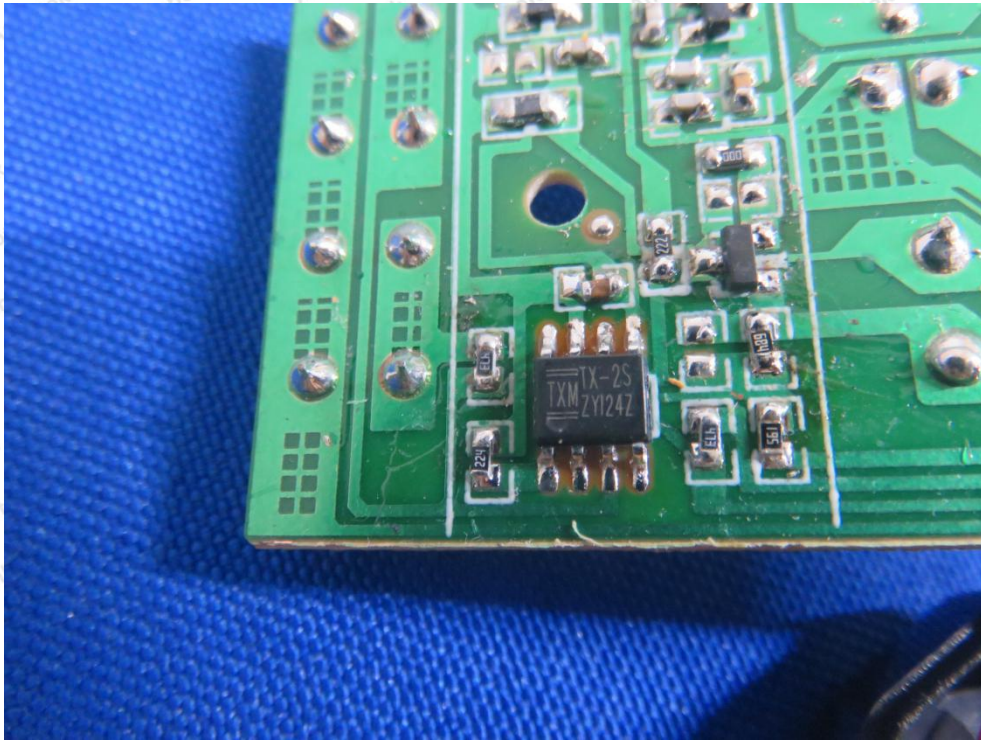


## APPENDIX III -- INTERNAL PHOTOGRAPH









----- End of Report -----

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