



## Shenzhen EBO Testing Center

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Report No.: EBO1708138-E256  
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# FCC REPORT

**Applicant:** SHANTOU CITY PAIERGE TOYS  
**Address of Applicant:** CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG  
PROVINCE, CHINA

### Equipment Under Test (EUT)

**Product Name:** REMOTE CONTROL CAR  
**Model No.:** PEG-88  
**FCC ID:** 2ANMKPEG-88  
**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.249:2017  
**Date of sample receipt:** August 1, 2017  
**Date of Test:** August 1, 2017 to August 13, 2017  
**Date of report issued:** August 13, 2017  
**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above

Authorized Signature:

Kevin Yu  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



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### 2 Version

| Version No. | Date            | Description |
|-------------|-----------------|-------------|
| 00          | August 13, 2017 | Original    |
|             |                 |             |
|             |                 |             |
|             |                 |             |
|             |                 |             |

Prepared By:

Date:

August 13, 2017

Project Engineer

Check By:

Date:

August 13, 2017

Reviewer

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### 4 Test Summary

| Test Item                                | Section in CFR 47     | Result |
|------------------------------------------|-----------------------|--------|
| Antenna requirement                      | 15.203                | Pass   |
| AC Power Line Conducted Emission         | 15.207                | N/A    |
| Field strength of the fundamental signal | 15.249 (a)            | Pass   |
| Spurious emissions                       | 15.249 (a) (d)/15.209 | Pass   |
| Band edge                                | 15.249 (d)/15.205     | Pass   |
| 20dB Occupied Bandwidth                  | 15.215 (c)            | Pass   |

*Pass: The EUT complies with the essential requirements in the standard.*

*Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.*

#### 4.1 Measurement Uncertainty

| Test Item                        | Frequency Range | Measurement Uncertainty | Notes |
|----------------------------------|-----------------|-------------------------|-------|
| Radiated Emission                | 9kHz ~ 30MHz    | $\pm 4.34\text{dB}$     | (1)   |
| Radiated Emission                | 30MHz ~ 1000MHz | $\pm 4.24\text{dB}$     | (1)   |
| Radiated Emission                | 1GHz ~ 26.5GHz  | $\pm 4.68\text{dB}$     | (1)   |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | $\pm 3.45\text{dB}$     | (1)   |

Note (1): The measurement uncertainty is for coverage factor of  $k=2$  and a level of confidence of 95%.



## 5 General Information

### 5.1 General Description of EUT

|                      |                                              |
|----------------------|----------------------------------------------|
| Product Name:        | REMOTE CONTROL CAR                           |
| Model No.:           | PEG-88                                       |
| Operation Frequency: | 2402MHz~2480MHz                              |
| Channel numbers:     | 17                                           |
| Modulation type:     | FM                                           |
| Antenna Type:        | Integrated antenna                           |
| Antenna gain:        | 0dBi                                         |
| Power supply:        | Remote control: DC 3.0V (2*1.5V AAA Battery) |

#### Channel List(MHz):

|      |      |      |      |
|------|------|------|------|
| 2402 | 2425 | 2450 | 2475 |
| 2405 | 2430 | 2455 | 2480 |
| 2410 | 2435 | 2460 |      |
| 2415 | 2440 | 2465 |      |
| 2420 | 2445 | 2470 |      |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2402MHz   |
| The middle channel  | 2440MHz   |
| The Highest channel | 2480MHz   |

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### 5.2 Test mode

|                                              |                                                |
|----------------------------------------------|------------------------------------------------|
| Transmitting mode                            | Keep the EUT in continuously transmitting mode |
| Remark: New battery is used during all test. |                                                |

#### Pre-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

| Axis                   | X     | Y     | Z     |
|------------------------|-------|-------|-------|
| Field Strength(dBuV/m) | 88.08 | 89.23 | 88.74 |

#### Final Test Mode:

According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”:  
Y axis (see the test setup photo)

### 5.3 Description of Support Units

|      |
|------|
| None |
|------|

### 5.4 Test Facility

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"><li>● <b>FCC —Registration No.: 600491</b><br/>Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 600491, June 22, 2016.</li><li>● <b>Industry Canada (IC) —Registration No.: 9079A-2</b><br/>The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016</li></ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 5.5 Test Location

|                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All tests were performed at:                                                                                                                                                                |
| Global United Technology Services Co., Ltd.<br>No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 |

### 5.6 Other Information Requested by the Customer

|       |
|-------|
| None. |
|-------|

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### 6 Test Instruments list

| Radiated Emission: |                               |                                |                             |               |                     |                         |
|--------------------|-------------------------------|--------------------------------|-----------------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment                | Manufacturer                   | Model No.                   | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | 3m Semi- Anechoic Chamber     | ZhongYu Electron               | 9.2(L)*6.2(W)* 6.4(H)       | GTS250        | July 03 2015        | July 02 2020            |
| 2                  | Control Room                  | ZhongYu Electron               | 6.2(L)*2.5(W)* 2.4(H)       | GTS251        | N/A                 | N/A                     |
| 3                  | Spectrum Analyzer             | Agilent                        | E4440A                      | GTS533        | June 28 2017        | June 27 2018            |
| 4                  | EMI Test Receiver             | Rohde & Schwarz                | ESU26                       | GTS203        | June 28 2017        | June 27 2018            |
| 5                  | BiConiLog Antenna             | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9163                    | GTS214        | June 28 2017        | June 27 2018            |
| 6                  | Double -ridged waveguide horn | SCHWARZBECK<br>MESS-ELEKTRONIK | 9120D-829                   | GTS208        | June 28 2017        | June 27 2018            |
| 7                  | Horn Antenna                  | ETS-LINDGREN                   | 3160                        | GTS217        | June 28 2017        | June 27 2018            |
| 8                  | EMI Test Software             | AUDIX                          | E3                          | N/A           | N/A                 | N/A                     |
| 9                  | Coaxial Cable                 | GTS                            | N/A                         | GTS213        | June 28 2017        | June 27 2018            |
| 10                 | Coaxial Cable                 | GTS                            | N/A                         | GTS211        | June 28 2017        | June 27 2018            |
| 11                 | Coaxial cable                 | GTS                            | N/A                         | GTS210        | June 28 2017        | June 27 2018            |
| 12                 | Coaxial Cable                 | GTS                            | N/A                         | GTS212        | June 28 2017        | June 27 2018            |
| 13                 | Amplifier(100kHz-3GHz)        | HP                             | 8347A                       | GTS204        | June 28 2017        | June 27 2018            |
| 14                 | Amplifier(2GHz-20GHz)         | HP                             | 8349B                       | GTS206        | June 28 2017        | June 27 2018            |
| 15                 | Amplifier (18-26GHz)          | Rohde & Schwarz                | AFS33-18002<br>650-30-8P-44 | GTS218        | June 28 2017        | June 27 2018            |
| 16                 | Band filter                   | Amindeon                       | 82346                       | GTS219        | June 28 2017        | June 27 2018            |
| 17                 | Power Meter                   | Anritsu                        | ML2495A                     | GTS540        | June 28 2017        | June 27 2018            |
| 18                 | Power Sensor                  | Anritsu                        | MA2411B                     | GTS541        | June 28 2017        | June 27 2018            |

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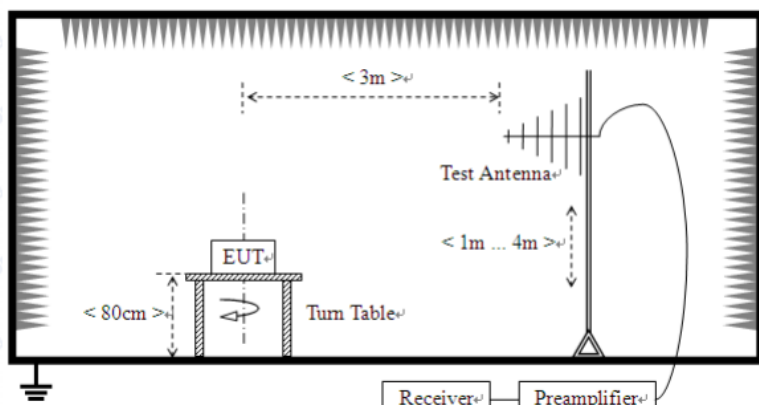


## 7 Test results and Measurement Data

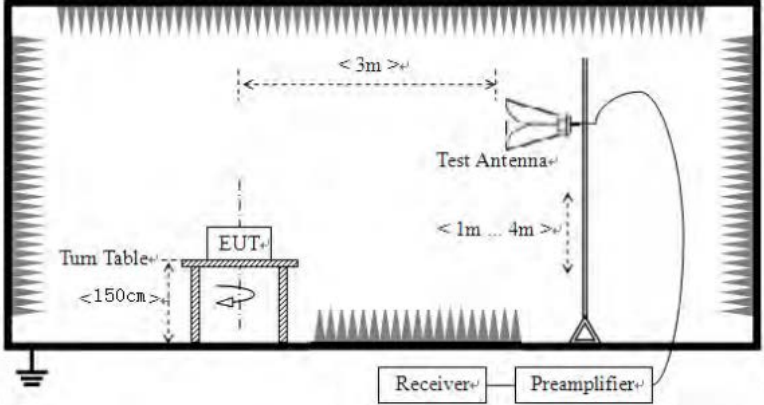
### 7.1 Antenna requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FCC Part15 C Section 15.203 |
| <b>15.203 requirement:</b><br><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. |                             |
| <b>EUT Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |
| <i>The antenna is Integrated antenna, the best case gain of the antenna is 0 dBi</i>                                                                                                                                                                                                                                                                                                                                                                                                 |                             |

## 7.2 Radiated Emission Method

|                                                      |                                                                                                                                                                                                                                                                |            |                    |        |                  |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|--------|------------------|
| Test Requirement:                                    | FCC Part15 C Section 15.209                                                                                                                                                                                                                                    |            |                    |        |                  |
| Test Method:                                         | ANSI C63.10:2013                                                                                                                                                                                                                                               |            |                    |        |                  |
| Test Frequency Range:                                | 30MHz to 25GHz                                                                                                                                                                                                                                                 |            |                    |        |                  |
| Test site:                                           | Measurement Distance: 3m                                                                                                                                                                                                                                       |            |                    |        |                  |
| Receiver setup:                                      | Frequency                                                                                                                                                                                                                                                      | Detector   | RBW                | VBW    | Remark           |
|                                                      | 30MHz-1GHz                                                                                                                                                                                                                                                     | Quasi-peak | 120KHz             | 300KHz | Quasi-peak Value |
|                                                      | Above 1GHz                                                                                                                                                                                                                                                     | Peak       | 1MHz               | 3MHz   | Peak Value       |
|                                                      |                                                                                                                                                                                                                                                                | Peak       | 1MHz               | 10Hz   | Average Value    |
| Limit:<br>(Field strength of the fundamental signal) | Frequency                                                                                                                                                                                                                                                      |            | Limit (dBuV/m @3m) |        | Remark           |
|                                                      | 2400MHz-2483.5MHz                                                                                                                                                                                                                                              |            | 94.00              |        | Average Value    |
|                                                      |                                                                                                                                                                                                                                                                |            | 114.00             |        | Peak Value       |
| Limit:<br>(Spurious Emissions)                       | Frequency                                                                                                                                                                                                                                                      |            | Limit (dBuV/m @3m) |        | Remark           |
|                                                      | 30MHz-88MHz                                                                                                                                                                                                                                                    |            | 40.00              |        | Quasi-peak Value |
|                                                      | 88MHz-216MHz                                                                                                                                                                                                                                                   |            | 43.50              |        | Quasi-peak Value |
|                                                      | 216MHz-960MHz                                                                                                                                                                                                                                                  |            | 46.00              |        | Quasi-peak Value |
|                                                      | 960MHz-1GHz                                                                                                                                                                                                                                                    |            | 54.00              |        | Quasi-peak Value |
|                                                      | Above 1GHz                                                                                                                                                                                                                                                     |            | 54.00              |        | Average Value    |
|                                                      |                                                                                                                                                                                                                                                                |            | 74.00              |        | Peak Value       |
| Limit:<br>(band edge)                                | 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 Section 15.209, whichever is the lesser attenuation. |            |                    |        |                  |
| Test setup:                                          | Below 1GHz                                                                                                                                                                                                                                                     |            |                    |        |                  |
|                                                      | <div></div>                                                                                                                                                                |            |                    |        |                  |
| Test setup:                                          | Above 1GHz                                                                                                                                                                                                                                                     |            |                    |        |                  |
|                                                      |                                                                                                                                                                                                                                                                |            |                    |        |                  |

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|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>Test Procedure:</p>   | <ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol> |
| <p>Test Instruments:</p> | <p>Refer to section 6.0 for details</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>Test mode:</p>        | <p>Refer to section 5.2 for details</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>Test results:</p>     | <p>Pass</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### Measurement data:

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### 7.2.1 Field Strength of The Fundamental Signal

#### Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2402.00         | 89.97             | 27.58                 | 5.39            | 34.01                    | 88.93          | 114.00              | -25.07          | Vertical     |
| 2402.00         | 85.01             | 27.58                 | 5.39            | 34.01                    | 83.97          | 114.00              | -30.03          | Horizontal   |
| 2440.00         | 90.28             | 27.48                 | 5.43            | 33.96                    | 89.23          | 114.00              | -24.77          | Vertical     |
| 2440.00         | 84.39             | 27.48                 | 5.43            | 33.96                    | 83.34          | 114.00              | -30.66          | Horizontal   |
| 2480.00         | 89.42             | 27.52                 | 5.47            | 33.92                    | 88.49          | 114.00              | -25.51          | Vertical     |
| 2480.00         | 83.67             | 27.52                 | 5.47            | 33.92                    | 82.74          | 114.00              | -31.26          | Horizontal   |

#### Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2402.00         | 80.33             | 27.58                 | 5.39            | 34.01                    | 79.29          | 94.00               | -14.71          | Vertical     |
| 2402.00         | 75.33             | 27.58                 | 5.39            | 34.01                    | 74.29          | 94.00               | -19.71          | Horizontal   |
| 2440.00         | 80.30             | 27.48                 | 5.43            | 33.96                    | 79.25          | 94.00               | -14.76          | Vertical     |
| 2440.00         | 73.79             | 27.48                 | 5.43            | 33.96                    | 72.74          | 94.00               | -21.26          | Horizontal   |
| 2480.00         | 79.31             | 27.52                 | 5.47            | 33.92                    | 78.38          | 94.00               | -15.62          | Vertical     |
| 2480.00         | 73.95             | 27.52                 | 5.47            | 33.92                    | 73.02          | 94.00               | -20.98          | Horizontal   |

**NOTE: RBW 4MHz VBW 4MHz Peak detector is for PK value , RMS detector is for AV value**

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### 7.2.2 Spurious emissions

#### ■ Below 1GHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 32.75           | 24.52             | 11.25                 | 0.58            | 30.08                    | 6.27           | 40.00               | -33.73          | Vertical     |
| 64.21           | 26.46             | 8.73                  | 0.90            | 29.89                    | 6.20           | 40.00               | -33.80          | Vertical     |
| 92.14           | 25.59             | 10.98                 | 1.13            | 29.74                    | 7.96           | 40.00               | -32.04          | Vertical     |
| 123.70          | 30.92             | 8.75                  | 1.39            | 29.55                    | 11.51          | 40.00               | -28.49          | Vertical     |
| 219.08          | 30.13             | 10.88                 | 1.95            | 29.38                    | 13.58          | 40.00               | -26.42          | Vertical     |
| 457.51          | 24.65             | 16.65                 | 3.12            | 29.38                    | 15.04          | 47.00               | -31.96          | Vertical     |
| 35.38           | 26.15             | 11.20                 | 0.61            | 30.07                    | 7.89           | 40.00               | -32.11          | Horizontal   |
| 59.23           | 26.97             | 11.40                 | 0.85            | 29.93                    | 9.29           | 40.00               | -30.71          | Horizontal   |
| 89.91           | 27.45             | 10.60                 | 1.11            | 29.75                    | 9.41           | 40.00               | -30.59          | Horizontal   |
| 131.76          | 31.49             | 8.10                  | 1.45            | 29.50                    | 11.54          | 40.00               | -28.46          | Horizontal   |
| 243.38          | 33.22             | 11.66                 | 2.09            | 29.59                    | 17.38          | 47.00               | -29.62          | Horizontal   |
| 477.17          | 24.85             | 17.08                 | 3.21            | 29.34                    | 15.80          | 47.00               | -31.20          | Horizontal   |

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■ Above 1GHz

|               |                |
|---------------|----------------|
| Test channel: | Lowest channel |
|---------------|----------------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4804.00         | 36.10             | 31.78                 | 8.60            | 32.09              | 44.39          | 74.00               | -29.61          | Vertical     |
| 7206.00         | 31.03             | 36.15                 | 11.65           | 32.00              | 46.83          | 74.00               | -27.17          | Vertical     |
| 9608.00         | 30.76             | 37.95                 | 14.14           | 31.62              | 51.23          | 74.00               | -22.77          | Vertical     |
| 12010.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14412.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4804.00         | 40.15             | 31.78                 | 8.60            | 32.09              | 48.44          | 74.00               | -25.56          | Horizontal   |
| 7206.00         | 32.68             | 36.15                 | 11.65           | 32.00              | 48.48          | 74.00               | -25.52          | Horizontal   |
| 9608.00         | 30.07             | 37.95                 | 14.14           | 31.62              | 50.54          | 74.00               | -23.46          | Horizontal   |
| 12010.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14412.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4804.00         | 25.15             | 31.78                 | 8.60            | 32.09              | 33.44          | 54.00               | -20.56          | Vertical     |
| 7206.00         | 19.86             | 36.15                 | 11.65           | 32.00              | 35.66          | 54.00               | -18.34          | Vertical     |
| 9608.00         | 19.01             | 37.95                 | 14.14           | 31.62              | 39.48          | 54.00               | -14.52          | Vertical     |
| 12010.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14412.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4804.00         | 29.24             | 31.78                 | 8.60            | 32.09              | 37.53          | 54.00               | -16.47          | Horizontal   |
| 7206.00         | 21.95             | 36.15                 | 11.65           | 32.00              | 37.75          | 54.00               | -16.25          | Horizontal   |
| 9608.00         | 18.64             | 37.95                 | 14.14           | 31.62              | 39.11          | 54.00               | -14.89          | Horizontal   |
| 12010.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14412.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “\*”, means this data is the too weak instrument of signal is unable to test.

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|               |                |
|---------------|----------------|
| Test channel: | Middle channel |
|---------------|----------------|

### Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4880.00         | 36.64             | 31.85                 | 8.67            | 32.12              | 45.04          | 74.00               | -28.96          | Vertical     |
| 7320.00         | 31.39             | 36.37                 | 11.72           | 31.89              | 47.59          | 74.00               | -26.41          | Vertical     |
| 9760.00         | 31.08             | 38.35                 | 14.25           | 31.62              | 52.06          | 74.00               | -21.94          | Vertical     |
| 12200.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14640.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4880.00         | 40.79             | 31.85                 | 8.67            | 32.12              | 49.19          | 74.00               | -24.81          | Horizontal   |
| 7320.00         | 33.09             | 36.37                 | 11.72           | 31.89              | 49.29          | 74.00               | -24.71          | Horizontal   |
| 9760.00         | 30.44             | 38.35                 | 14.25           | 31.62              | 51.42          | 74.00               | -22.58          | Horizontal   |
| 12200.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14640.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

### Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4880.00         | 25.59             | 31.85                 | 8.67            | 32.12              | 33.99          | 54.00               | -20.01          | Vertical     |
| 7320.00         | 20.16             | 36.37                 | 11.72           | 31.89              | 36.36          | 54.00               | -17.64          | Vertical     |
| 9760.00         | 19.28             | 38.35                 | 14.25           | 31.62              | 40.26          | 54.00               | -13.74          | Vertical     |
| 12200.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14640.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4880.00         | 29.75             | 31.85                 | 8.67            | 32.12              | 38.15          | 54.00               | -15.85          | Horizontal   |
| 7320.00         | 22.29             | 36.37                 | 11.72           | 31.89              | 38.49          | 54.00               | -15.51          | Horizontal   |
| 9760.00         | 18.95             | 38.35                 | 14.25           | 31.62              | 39.93          | 54.00               | -14.07          | Horizontal   |
| 12200.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14640.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

### Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “\*”, means this data is the too weak instrument of signal is unable to test.

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|               |                 |
|---------------|-----------------|
| Test channel: | Highest channel |
|---------------|-----------------|

### Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4960.00         | 36.78             | 31.93                 | 8.73            | 32.16              | 45.28          | 74.00               | -28.72          | Vertical     |
| 7440.00         | 31.48             | 36.59                 | 11.79           | 31.78              | 48.08          | 74.00               | -25.92          | Vertical     |
| 9920.00         | 31.16             | 38.81                 | 14.38           | 31.88              | 52.47          | 74.00               | -21.53          | Vertical     |
| 12400.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14880.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4960.00         | 40.95             | 31.93                 | 8.73            | 32.16              | 49.45          | 74.00               | -24.55          | Horizontal   |
| 7440.00         | 33.19             | 36.59                 | 11.79           | 31.78              | 49.79          | 74.00               | -24.21          | Horizontal   |
| 9920.00         | 30.53             | 38.81                 | 14.38           | 31.88              | 51.84          | 74.00               | -22.16          | Horizontal   |
| 12400.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14880.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

### Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4960.00         | 25.76             | 31.93                 | 8.73            | 32.16              | 34.26          | 54.00               | -19.74          | Vertical     |
| 7440.00         | 20.27             | 36.59                 | 11.79           | 31.78              | 36.87          | 54.00               | -17.13          | Vertical     |
| 9920.00         | 19.38             | 38.81                 | 14.38           | 31.88              | 40.69          | 54.00               | -13.31          | Vertical     |
| 12400.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14880.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4960.00         | 29.94             | 31.93                 | 8.73            | 32.16              | 38.44          | 54.00               | -15.56          | Horizontal   |
| 7440.00         | 22.42             | 36.59                 | 11.79           | 31.78              | 39.02          | 54.00               | -14.98          | Horizontal   |
| 9920.00         | 19.07             | 38.81                 | 14.38           | 31.88              | 40.38          | 54.00               | -13.62          | Horizontal   |
| 12400.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14880.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

### Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “\*”, means this data is the too weak instrument of signal is unable to test.

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### 7.2.3 Bandedge emissions

*All of the restriction bands were tested, and only the data of worst case was exhibited.*

|               |                |
|---------------|----------------|
| Test channel: | Lowest channel |
|---------------|----------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 41.03             | 27.59                 | 5.38            | 30.18              | 43.82          | 74.00               | -30.18          | Horizontal   |
| 2400.00         | 47.55             | 27.58                 | 5.39            | 30.18              | 50.34          | 74.00               | -23.66          | Horizontal   |
| 2390.00         | 41.40             | 27.59                 | 5.38            | 30.18              | 44.19          | 74.00               | -29.81          | Vertical     |
| 2400.00         | 48.39             | 27.58                 | 5.39            | 30.18              | 51.18          | 74.00               | -22.82          | Vertical     |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 31.99             | 27.59                 | 5.38            | 30.18              | 34.78          | 54.00               | -19.22          | Horizontal   |
| 2400.00         | 33.12             | 27.58                 | 5.39            | 30.18              | 35.91          | 54.00               | -18.09          | Horizontal   |
| 2390.00         | 31.81             | 27.59                 | 5.38            | 30.18              | 34.60          | 54.00               | -19.40          | Vertical     |
| 2400.00         | 33.59             | 27.58                 | 5.39            | 30.18              | 36.38          | 54.00               | -17.62          | Vertical     |

|               |                 |
|---------------|-----------------|
| Test channel: | Highest channel |
|---------------|-----------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 42.91             | 27.53                 | 5.47            | 29.93              | 45.98          | 74.00               | -28.02          | Horizontal   |
| 2500.00         | 42.43             | 27.55                 | 5.49            | 29.93              | 45.54          | 74.00               | -28.46          | Horizontal   |
| 2483.50         | 43.44             | 27.53                 | 5.47            | 29.93              | 46.51          | 74.00               | -27.49          | Vertical     |
| 2500.00         | 43.26             | 27.55                 | 5.49            | 29.93              | 46.37          | 74.00               | -27.63          | Vertical     |

Average value:

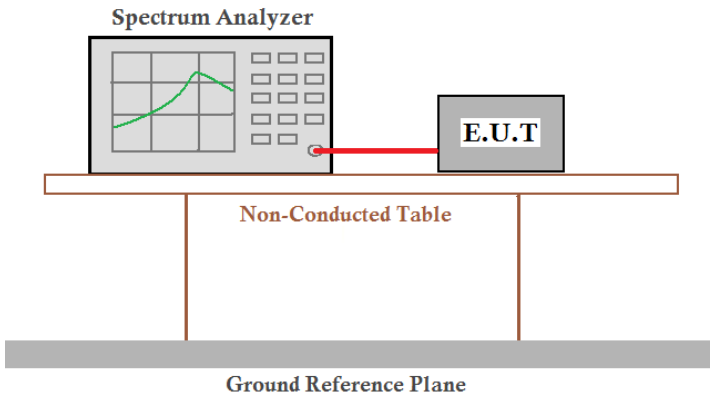
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 34.80             | 27.53                 | 5.47            | 29.93              | 37.87          | 54.00               | -16.13          | Horizontal   |
| 2500.00         | 33.07             | 27.55                 | 5.49            | 29.93              | 36.18          | 54.00               | -17.82          | Horizontal   |
| 2483.50         | 35.86             | 27.53                 | 5.47            | 29.93              | 38.93          | 54.00               | -15.07          | Vertical     |
| 2500.00         | 32.83             | 27.55                 | 5.49            | 29.93              | 35.94          | 54.00               | -18.06          | Vertical     |

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*

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## 7.3 20dB Occupy Bandwidth

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.249/15.215                                                 |
| Test Method:      | ANSI C63.10:2013                                                                   |
| Limit:            | Operation Frequency range 2400MHz~2483.5MHz                                        |
| Test setup:       |  |
| Test Instruments: | Refer to section 6.0 for details                                                   |
| Test mode:        | Refer to section 5.2 for details                                                   |
| Test results:     | Pass                                                                               |

### Measurement Data

| Test channel | 20dB bandwidth(MHz) | Result |
|--------------|---------------------|--------|
| Lowest       | 3.434               | Pass   |
| Middle       | 3.493               | Pass   |
| Highest      | 3.202               | Pass   |

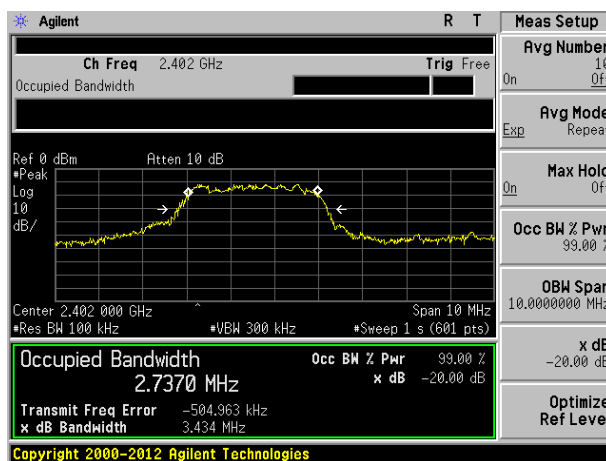
Test plot as follows:



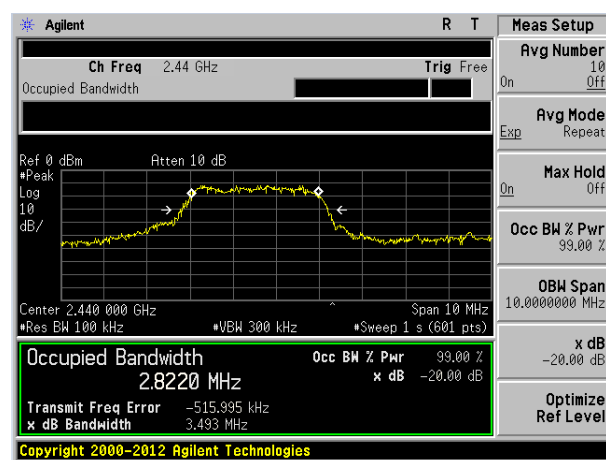
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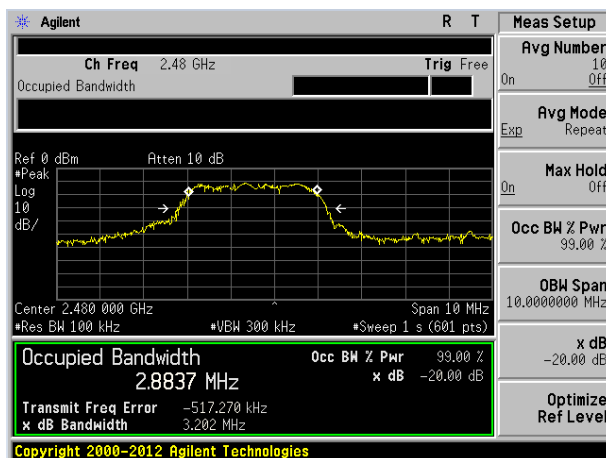
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Lowest channel



Middle channel

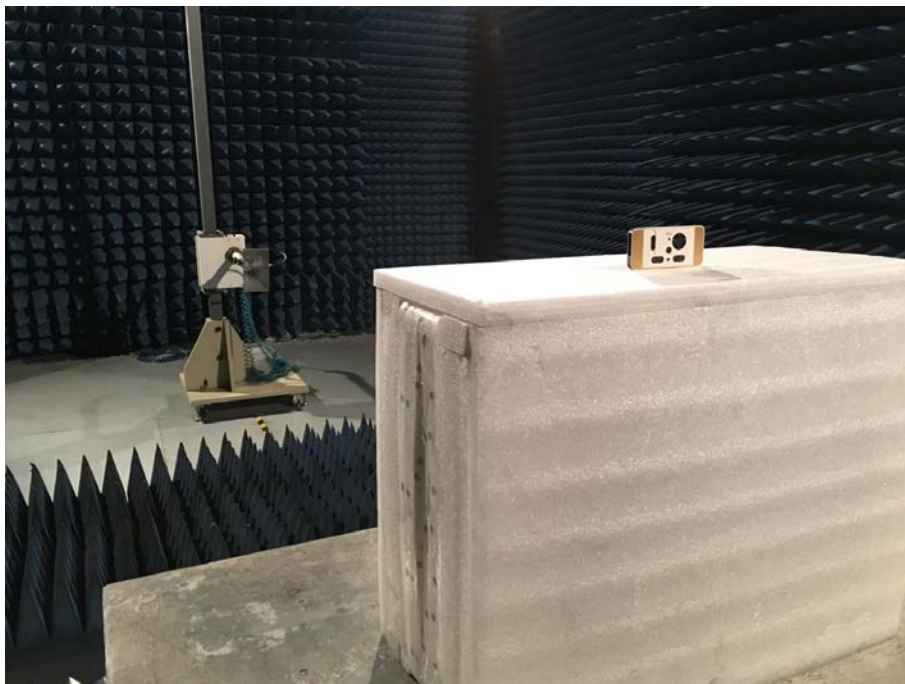


Highest channel

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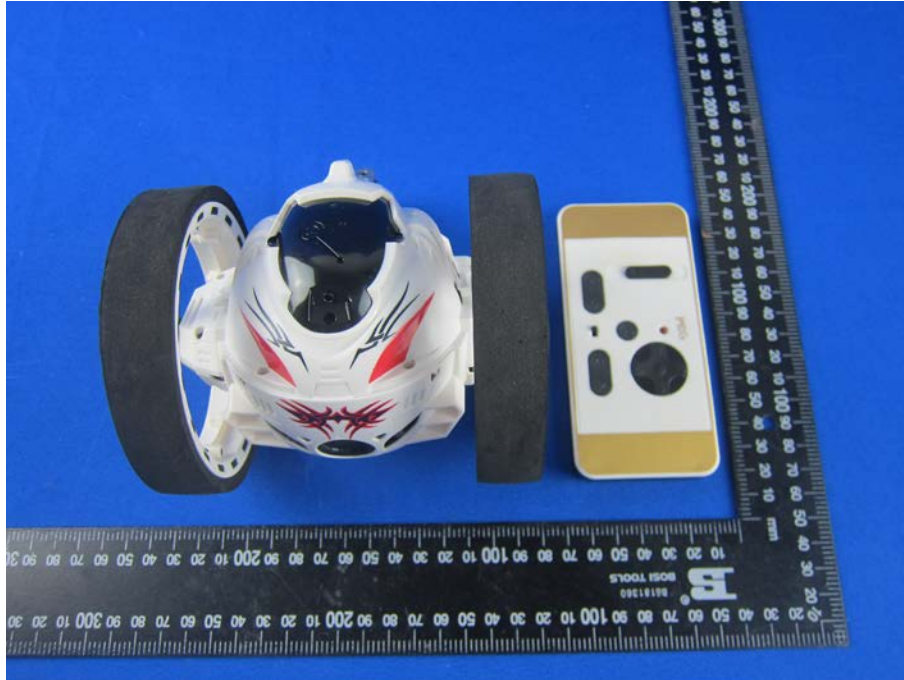
### 8 Test Setup Photo

#### Radiated Emission



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### 9 EUT Constructional Details



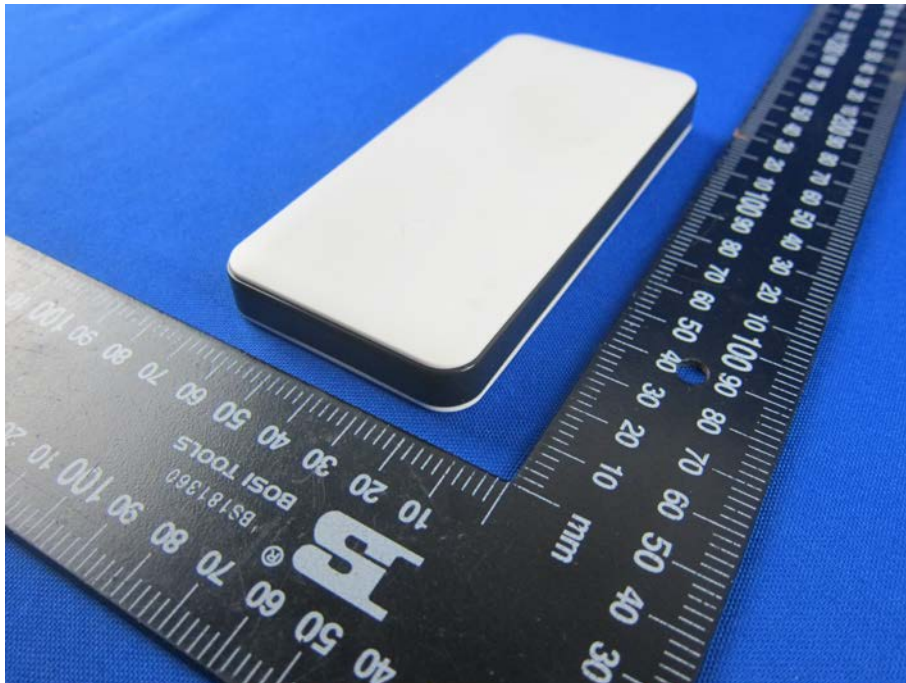
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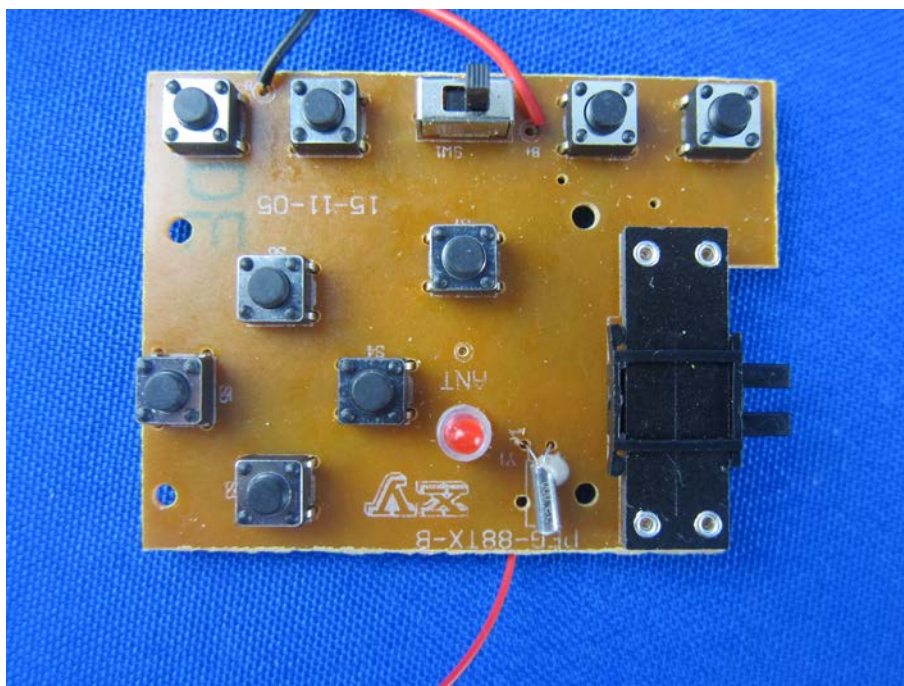
## Shenzhen EBO Testing Center

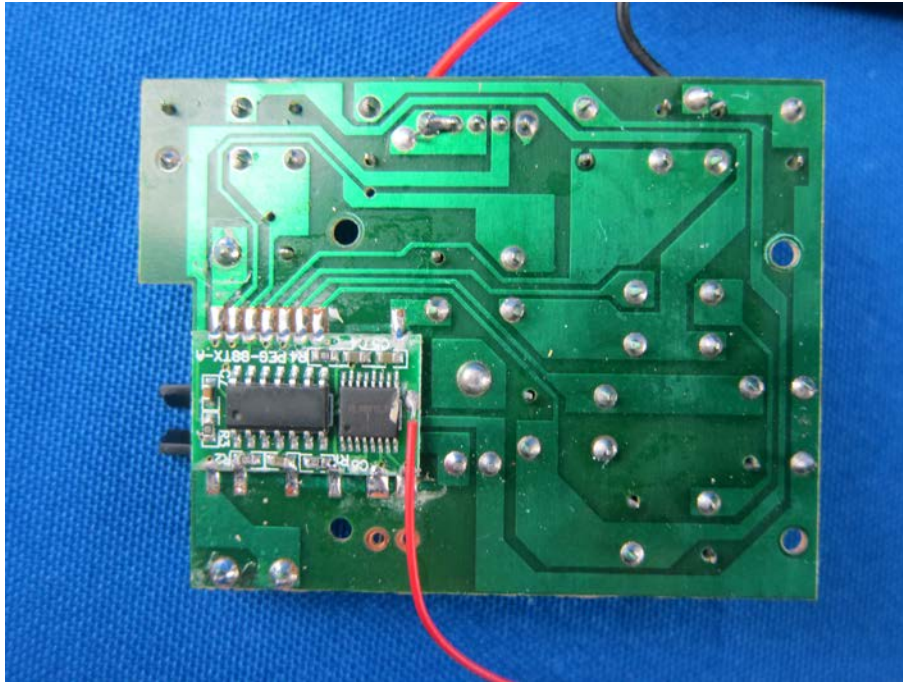
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