

# FCC Test Report

**Application No.:** T31620220011EM  
**Applicant:** KIDZTECH TOYS MANUFACTURING LTD.  
**Address:** Rm 1201, Inter-Continental Plaza,  
94 Granville Road, TST, Hong Kong.

**Product Information:**  
**Product Description:** R/C Sand X-Monster  
**Item No.:** 84411 / 84412 / 84413 / 84414 / 84415 ♣  
♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

**Countrt of Origin:** China  
**Age Grading:** 8+  
**Product Class :** Low Power Communication Device – Transmitter (2.4 GHz)  
**FCC ID:** OTM-8441116-24GTX  
**Requirement:** CFR 47 FCC PART 15 SUBPART C, 2015  
Intentional Radiators (Section 15.249)  
**Date of Receipt:** 2016-06-02  
**Date of Test:** 2016-06-17 to 2016-06-23  
**Date of Issue:** 2016-08-01

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

In the configuration tested, the EUT complied with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

Authorized Signature:



TSANG KA TING, Calvin

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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## 2 Test Summary

| Test                                                              | Test Requirement                | Test Method      | Result            |
|-------------------------------------------------------------------|---------------------------------|------------------|-------------------|
| Conducted Emission<br>(150KHz to 30MHz)                           | FCC PART 15,<br>SUBPART C: 2015 | ANSI C63.10:2013 | N/A <sup>1)</sup> |
| Radiated Emission<br>(9kMHz to 1GHz)                              | FCC PART 15,<br>SUBPART C: 2015 | ANSI C63.10:2013 | PASS              |
| Radiated Emission<br>above 1 GHz                                  | FCC PART 15,<br>SUBPART C: 2015 | ANSI C63.10:2013 | PASS              |
| Restricted-band band-<br>edge measurements<br>(Radiated Emission) | FCC PART 15,<br>SUBPART C: 2015 | ANSI C63.10:2013 | PASS              |

**Remark :**

1) Please refer to section 6.1 of this report for explanation.

♣ Item no.: 84411 / 84412 / 84413 / 84414 / 84415

According to the confirmation from the applicant, the above models are identical in all electrical aspects in relating to the circuit design, PCB layout, electrical components used, internal wiring and function. The differences are only the model, color and decorations.  
Therefore only the model 84411 shown in photo 7.1 was tested in this report.

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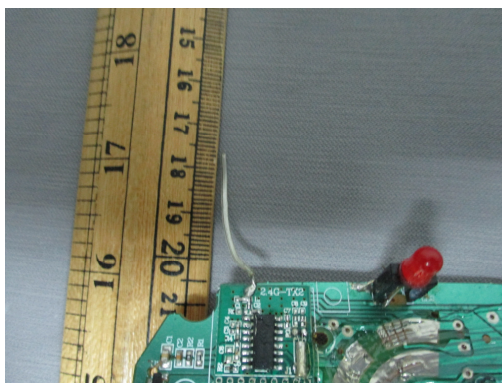
## 4 General Information

### 4.1 General Description of EUT

Product Description: R/C Sand X-Monster  
Item No.: 84411  
Serial No.: --

### 4.2 Details of EUT

Power Supply: DC 9V (6F22 battery x 1)  
Operating Frequency: 2405-2475MHz  
Antenna Type: Unreplaceable internal integral antenna



Modulation Type: GFSK

Test frequency tested are the lowest channel: 1 channel (2405MHz), middle channel: 2 channel (2440MHz) and highest channel: 3 channel (2475MHz)

Channel configuration method:

1. Press the button & the knob to anti-clockwise and then power on to enter test mode.
2. Press the button to change the channel from low to high frequency.

### 4.3 Conditions of EUT

The received sample was under good condition.

### 4.4 Description of Support Units

1. All field strength measures in this test report were done by the sample which set the frequency with continuous transmission

### 4.5 Standards Applicable for Testing

CFR 47, FCC Part 15, 2015  
ANSI C63.10:2013

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#### 4.6 Test Location

All tests were performed at:

SGS IECC Limited (Member of the SGS Group (SGS SA))

Units 303-305, 3/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480

#### 4.7 Test Facility

Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules (FCC Registration No. : 97774).

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

FCC – CAB Registration No.: 446297

Measurement facility located at Fanling (Hong Kong), accredited as a Conformity Assessment Body (CAB) and was designated by FCC to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules.

#### 4.8 Deviation from Standards

None.

#### 4.9 Abnormalities from Standard Conditions

None.

#### 4.10 Declaration of Family Grouping

None.

#### 4.11 Abbreviations

N/A: Not Applicable

EUT: Equipment Under Test

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## 5 Equipments Used during Test

| Conducted Emission                 |                 |                      |            |               |
|------------------------------------|-----------------|----------------------|------------|---------------|
| Equipment                          | Manufacturer    | Model / Serial No.   | Cal. Date  | Cal. Due Date |
| Test Receiver                      | Rohde & Schwarz | ESHS 30 / 839667/002 | 2015/09/29 | 2016/09/28    |
| Artificial Mains Network<br>(LISN) | Schwarzbeck     | NSLK 8127 / 8127312  | 2016/04/20 | 2017/04/19    |
| Impulse Limiter                    | Rohde & Schwarz | ESH-3-Z2 / 357881052 | 2015/02/02 | 2017/02/01    |

| Radiated Emission                   |                 |                        |            |               |
|-------------------------------------|-----------------|------------------------|------------|---------------|
| Equipment                           | Manufacturer    | Model / Serial No.     | Cal. Date  | Cal. Due Date |
| 3m Semi-Anechoic Chamber (pre-test) | --              | --                     | --         | --            |
| 3m / 10m Open Area Test Site        | --              | --                     | 2015/03/11 | 2018/03/10    |
| Test Receiver                       | Rohde & Schwarz | ESCS 30 / 100388       | 2014/10/17 | 2016/09/28    |
| Spectrum Analyzer                   | Rohde & Schwarz | FSP 30 / 101474        | 2016/05/31 | 2017/05/30    |
| Loop antenna                        | Rohde & Schwarz | HFH2-Z2 / 871336/48    | 2016/01/23 | 2019/01/22    |
| Antenna 30-1000MHz                  | Schaffner       | CBL6111C / 2791        | 2014/10/19 | 2016/10/18    |
| Horn Antenna 1-18GHz                | Schwarzbeck     | BBHA9120D / 9120D-1070 | 2016/01/23 | 2018/01/22    |
| Horn Antenna 15-26.5GHz             | Schwarzbeck     | BBHA9170 / 9170-492    | 2014/11/24 | 2016/11/23    |
| Preamplifier 10MHz – 6GHz           | Schwarzbeck     | BBV9743 / 9743-052     | 2016/03/09 | 2017/03/08    |
| Preamplifier 1-18GHz                | Schwarzbeck     | BBV9718 / 9718-223     | 2016/01/23 | 2017/01/22    |
| Preamplifier 18- 26.5GHz            | Schwarzbeck     | BBV9719 / 9719-019     | 2014/11/19 | 2016/11/18    |
| Coaxial Cable                       | --              | E167                   | 2015/06/24 | 2016/06/23    |
| RF Cable                            | HUBER+SUHNER    | E207                   | 2014/11/17 | 2016/11/16    |

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|                           |             |            |    |    |
|---------------------------|-------------|------------|----|----|
| Antenna Mast System       | Schwarzbeck | AM9104 / - | -- | -- |
| Turntable with Controller | Drehtisch   | DT312 / -  | -- | -- |

| General Use Equipment        |              |                    |            |               |
|------------------------------|--------------|--------------------|------------|---------------|
| Equipment                    | Manufacturer | Model / Serial No. | Cal. Date  | Cal. Due Date |
| Digital Multimeter           | Fluke        | 189 / 83640020     | 2016/04/20 | 2017/04/19    |
| Temperature / Humidity meter | -            | E159               | 2015/10/07 | 2016/10/06    |

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## 6 Test Results

### 6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 C

Test Method: ANSI C63.10

Test Date: Not Applicable

**Remark:**

This test is not applicable as the EUT is battery operated.

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## 6.2 Radiated Emissions, 9kHz to 1GHz

Test Requirement: FCC Part15 Subpart C Section 15.209 and 15.249(d)  
Test Method: ANSI C63.10:2013  
Test Date: 2016-06-17  
Frequency Range: The lowest frequency generated by EUT, 12MHz to 1GHz  
Measurement Distance: 3m  
Detector: Peak for pre-scan  
(200Hz resolution bandwidth and 1kHz video bandwidth for measurement between 9kHz – 150kHz)  
(9kHz resolution bandwidth and 100kHz video bandwidth for measurement between 150kHz – 30MHz)  
(120kHz resolution bandwidth and 1MHz video bandwidth for measurement between 30MHz to 1GHz)  
Quasi-Peak if maximised peak within 6dB of limit

Limit :

| Frequency range<br>MHz                                                                                                                                                                                                                                                                | Quasi-peak limits<br>dB (µV/m) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 0.009 – 0.490                                                                                                                                                                                                                                                                         | -72.4 – 20logF(MHz)            |
| 0.490 – 1.705                                                                                                                                                                                                                                                                         | -12.4 – 20logF(MHz)            |
| 1.705 – 30.0                                                                                                                                                                                                                                                                          | -10.5                          |
| 30 to 88                                                                                                                                                                                                                                                                              | 40                             |
| 88 to 216                                                                                                                                                                                                                                                                             | 43.5                           |
| 216 to 960                                                                                                                                                                                                                                                                            | 46                             |
| Above 960                                                                                                                                                                                                                                                                             | 54                             |
| Note: 1) At transitional frequencies the lower limit applies.<br>2) F is the frequency of the spurious emission measured in MHz.<br>3) Limit from 0.009 – 30 MHz is converted from measuring distance 300m or 30m to 3m with the formula provided in FCC Part 15, section 15.31(f)(2) |                                |

### 6.2.1 EUT Operation

Operating Environment:

Temperature: 25 °C Humidity: 47 %

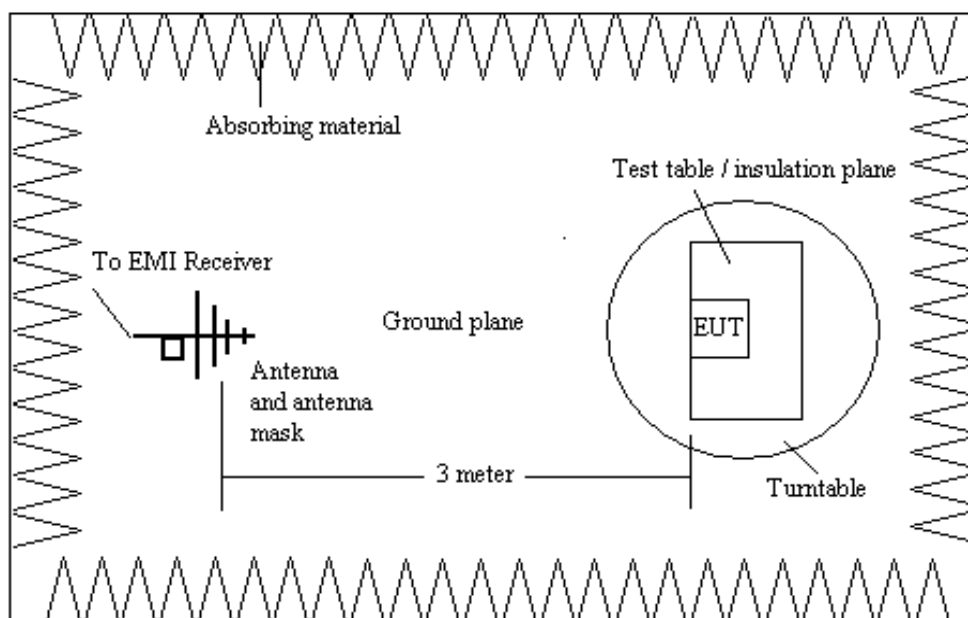
EUT Operation: Pre-test with Peak detector with the following mode(s):  
1: Transmission in continuous transmitting mode  
2. Test in lowest, middle and high frequency

Final test with Quasi-Peak detector with the following mode(s):  
1: Transmission in continuous transmitting mode  
2. Test in lowest, middle and high frequency

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## 6.2.2 Test Setup and Procedure



1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
2. The EUT was connected to AC power source through a mains power outlet which was bonded to the ground reference plane. The EUT was placed upon a non-metallic table 0.8m above the ground reference plane.
3. Loop antenna and Bilog antenna was used for the frequency range from the lowest generated frequency to 30MHz and 30MHz to 1GHz respectively
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters for Bilog antenna (Loop antenna is still maintain in 1m high) in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

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### 6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and frequencies of peak emissions from the EUT were detected within 6dB of the limit line. Final measurement was conducted in the open area test site with data as follows:

#### Test results:

##### (1) Operation Frequency : 2405 MHz

| Frequency (MHz) | Antenna Polarization | Correction Factor (dB/m) | Receiver QP Reading (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) |
|-----------------|----------------------|--------------------------|----------------------------|-------------------------|----------------|-----------------|
| 30.688          | H                    | 19.1                     | 4.5                        | 23.6                    | 40.0           | -16.4           |
| 45.750          | V                    | 13.4                     | 4.6                        | 18.0                    | 40.0           | -22.0           |
| 88.188          | V                    | 9.5                      | 5.4                        | 14.9                    | 43.5           | -28.6           |
| 150.375         | V                    | 11.4                     | 4.8                        | 16.2                    | 43.5           | -27.3           |
| 295.000         | H                    | 14.0                     | 5.4                        | 19.4                    | 46.0           | -26.6           |
| 691.063         | V                    | 20.8                     | 4.5                        | 25.3                    | 46.0           | -20.7           |

##### (2) Operation Frequency : 2440 MHz

| Frequency (MHz) | Antenna Polarization | Correction Factor (dB/m) | Receiver QP Reading (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) |
|-----------------|----------------------|--------------------------|----------------------------|-------------------------|----------------|-----------------|
| 30.625          | V                    | 19.1                     | 4.4                        | 23.5                    | 40.0           | -16.5           |
| 59.625          | H                    | 10.1                     | 5.0                        | 15.1                    | 40.0           | -24.9           |
| 136.688         | V                    | 11.7                     | 4.9                        | 16.6                    | 43.5           | -26.9           |
| 280.188         | V                    | 13.7                     | 5.5                        | 19.2                    | 46.0           | -26.8           |
| 536.688         | V                    | 19.0                     | 5.3                        | 24.3                    | 46.0           | -21.7           |
| 796.813         | V                    | 21.7                     | 3.4                        | 25.1                    | 46.0           | -20.9           |

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**(3) Operation Frequency : 2475 MHz**

| Frequency (MHz) | Antenna Polarization | Correction Factor (dB/m) | Receiver QP Reading (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) |
|-----------------|----------------------|--------------------------|----------------------------|-------------------------|----------------|-----------------|
| 30.375          | H                    | 19.3                     | 3.5                        | 22.7                    | 40.0           | -17.3           |
| 45.750          | V                    | 13.4                     | 4.8                        | 18.2                    | 40.0           | -21.8           |
| 74.938          | H                    | 9.2                      | 5.2                        | 14.4                    | 40.0           | -25.6           |
| 130.063         | H                    | 11.6                     | 5.0                        | 16.6                    | 43.5           | -26.9           |
| 297.438         | H                    | 14.0                     | 5.4                        | 19.4                    | 46.0           | -26.6           |
| 620.063         | V                    | 19.9                     | 5.0                        | 24.9                    | 46.0           | -21.1           |

**Note:**

- 1) All readings are Quasi-Peak values.
- 2) Correction Factor = Antenna Factor + Cable Loss.
- 3) The above results were the worst case results with the EUT positioned in all 3 axis during the test. The EUT was positioned vertically and horizontally on the table for vertical and horizontal measurement respectively.
- 4) Other emissions more than 20dB below the limit are not shown on the above table and only worst six emissions below 1GHz are listed.

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### 6.3 Radiated Emissions above 1 GHz

Test Requirement: FCC Part15 Subpart C Section 15.209 & 15.249(a) & (d)  
Test Method: ANSI C63.10:2013  
Test Date: 2016-06-23  
Frequency Range: 1GHz – 26GHz  
Measurement Distance: 3m  
Detector: Peak for pre-scan (1MHz resolution bandwidth, 3MHz video bandwidth)  
Average and Peak detector for final test

Limit :

Fundamental Frequency :

| Frequency range<br>MHz | Limits (Peak)<br>dB (μV/m) | Limits (Average)<br>dB (μV/m) |
|------------------------|----------------------------|-------------------------------|
| 2400 to 2483.5         | 114                        | 94                            |

Spurious Emission :

| Frequency range<br>MHz | Limits (Peak)<br>dB (μV/m) | Limits (Average)<br>dB (μV/m) |
|------------------------|----------------------------|-------------------------------|
| Over 1000              | 74                         | 54                            |

#### 6.3.1 EUT Operation

Operating Environment:

Temperature: 25 °C Humidity: 47 %

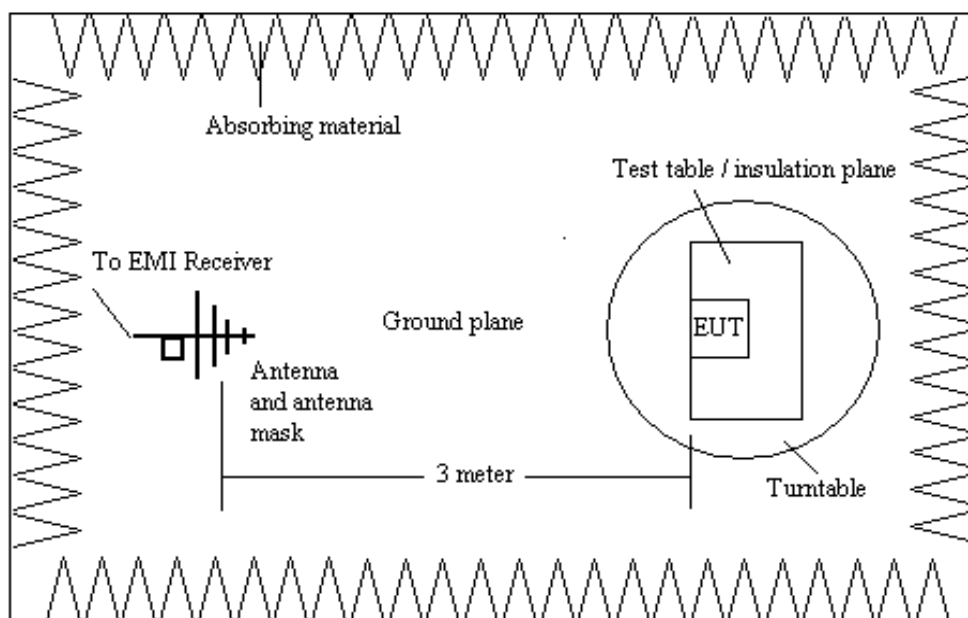
EUT Operation: Pre-test with Peak detector with the following mode(s):  
1: Transmission in continuous transmitting mode  
2: Test in lowest, middle and high frequency

Final test with Peak and Average detector with the following mode(s):  
1: Transmission in continuous transmitting mode  
2: Test in lowest, middle and high frequency

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### 6.3.2 Test Setup and Procedure



1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
2. The EUT was connected to AC power source through a mains power outlet which was bonded to the ground reference plane. The EUT was placed upon a non-metallic table 1.5m above the ground reference plane.
3. Horn antenna was used for the frequency over 1GHz
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

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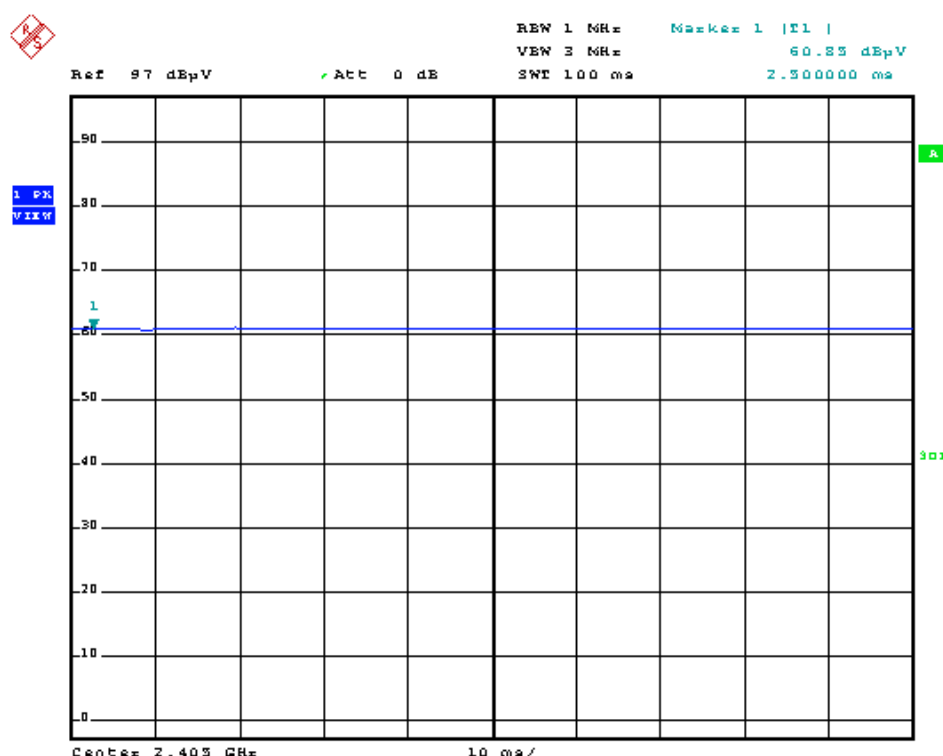
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## 6.3.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured with 2 orthogonal polarities and frequencies of average emissions from the EUT were measured as follows:

Emission at the fundamental frequency for the pulse modulated device was measured with the peak detector function of the test receiver and was properly adjusted for the duty cycle correction factor as pulse desensitization to calculate the average emission value.

### Time Domain Plots (Fundamental frequency of Transmitter) :



According to above plot, the duty cycle of the this device is 100%, pulsed operation according to C63.10 clause 7.5 is not employed and the average correction calculation is not applied on this report.

Hence, the average measurement is used below setting:

Dectector = peak

RBW =  $\geq 1\text{MHz}$

VBW =  $\geq 1\text{Hz}$

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## Test results :

### (1) Fundamental Frequency

| Frequency (MHz) | Antenna Polarization | Emission Level (dBμV/m) |         | Limit (dBμV/m) |         | Remark |
|-----------------|----------------------|-------------------------|---------|----------------|---------|--------|
|                 |                      | Peak                    | Average | Peak           | Average |        |
| 2405.0          | H                    | 90.74                   | 62.67   | 114            | 94      | Pass   |
| 2405.0          | V                    | 93.17                   | 63.87   | 114            | 94      | Pass   |
| 2440.0          | H                    | 90.41                   | 62.79   | 114            | 94      | Pass   |
| 2440.0          | V                    | 93.20                   | 64.03   | 114            | 94      | Pass   |
| 2475.0          | H                    | 90.80                   | 63.16   | 114            | 94      | Pass   |
| 2475.0          | V                    | 92.98                   | 63.55   | 114            | 94      | Pass   |

### (1) Spurious Emission

#### Operation Frequency : 2405.0 MHz

| Frequency (MHz) | Antenna Polarization | Emission Level (dBμV/m) |         | Limit (dBμV/m) |         | Remark |
|-----------------|----------------------|-------------------------|---------|----------------|---------|--------|
|                 |                      | Peak                    | Average | Peak           | Average |        |
| 4810.000        | V                    | 53.60                   | 36.51   | 74             | 54      | Pass   |
| 6674.000        | H                    | 50.20                   | 34.60   | 74             | 54      | Pass   |
| 7215.000        | V                    | 51.50                   | 36.14   | 74             | 54      | Pass   |
| 8349.000        | V                    | 54.70                   | 39.53   | 74             | 54      | Pass   |
| 9620.000        | V                    | 53.10                   | 37.82   | 74             | 54      | Pass   |
| 12025.000       | H                    | 57.10                   | 41.74   | 74             | 54      | Pass   |

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**Operation Frequency : 2440.0 MHz**

| Frequency (MHz) | Antenna Polarization | Emission Level (dB $\mu$ V/m) |         | Limit (dB $\mu$ V/m) |         | Remark |
|-----------------|----------------------|-------------------------------|---------|----------------------|---------|--------|
|                 |                      | Peak                          | Average | Peak                 | Average |        |
| 4501.000        | H                    | 45.80                         | 30.41   | 74                   | 54      | Pass   |
| 4880.000        | V                    | 54.40                         | 37.18   | 74                   | 54      | Pass   |
| 7320.000        | V                    | 52.30                         | 37.29   | 74                   | 54      | Pass   |
| 8523.000        | V                    | 54.30                         | 39.27   | 74                   | 54      | Pass   |
| 9760.000        | H                    | 54.90                         | 39.86   | 74                   | 54      | Pass   |
| 12200.000       | H                    | 57.50                         | 42.20   | 74                   | 54      | Pass   |

**Operation Frequency : 2475.0 MHz**

| Frequency (MHz) | Antenna Polarization | Emission Level (dB $\mu$ V/m) |         | Limit (dB $\mu$ V/m) |         | Remark |
|-----------------|----------------------|-------------------------------|---------|----------------------|---------|--------|
|                 |                      | Peak                          | Average | Peak                 | Average |        |
| 4950.000        | V                    | 53.20                         | 36.73   | 74                   | 54      | Pass   |
| 6347.000        | H                    | 49.20                         | 33.68   | 74                   | 54      | Pass   |
| 7425.000        | H                    | 53.50                         | 38.61   | 74                   | 54      | Pass   |
| 7920.000        | H                    | 54.50                         | 38.73   | 74                   | 54      | Pass   |
| 9900.000        | H                    | 56.10                         | 40.68   | 74                   | 54      | Pass   |
| 12375.000       | V                    | 59.40                         | 43.73   | 74                   | 54      | Pass   |

**Note:**

- 1) The above results were the worst case results with the EUT positioned in all 3 axis during the test. The EUT was positioned vertically and horizontally on the table for vertical and horizontal measurement respectively.
- 2) Other emissions more than 20dB below the limit are not shown on the above table and only worst six emissions below 1GHz are listed.

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#### 6.4 Restricted-band band-edge measurements (Radiated Emission)

Test Requirement: FCC Part15 Subpart C Section 15.215, 15.249(d)  
Test Method: ANSI C63.10:2013  
Measurement Distance: 3m  
Detector: (1MHz resolution bandwidth, 3MHz video bandwidth)  
Average and Peak detector  
Limit: 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 field strength limits listed in RSS-Gen, whichever is less stringent.

| Frequency     | Limit (dBuV/m @3m) | Remark           |
|---------------|--------------------|------------------|
| 30MHz-88MHz   | 40.0               | Quasi-peak Value |
| 88MHz-216MHz  | 43.5               | Quasi-peak Value |
| 216MHz-960MHz | 46.0               | Quasi-peak Value |
| 960MHz-1GHz   | 54.0               | Quasi-peak Value |
| Above 1GHz    | 54.0               | Average Value    |
|               | 74.0               | Peak Value       |

Test Date: 2016-06-23  
EUT Operation: 1: Transmission with GFSK  
Result: Pass

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**Test results :** (Worst case: Transmissin with GFSK)

Operation frequency : 2405.0 MHz

| Frequency<br>(MHz) | Antenna<br>Polarization | Emission Level (dBμV/m) |         | Limit (dBμV/m) |         | Remark |
|--------------------|-------------------------|-------------------------|---------|----------------|---------|--------|
|                    |                         | Peak                    | Average | Peak           | Average |        |
| 2390.0             | V                       | 37.46                   | 19.75   | 74             | 54      | Pass   |
| 2400.0             | V                       | 38.13                   | 20.88   | 74             | 54      | Pass   |

Operation frequency : 2475.0 MHz

| Frequency<br>(MHz) | Antenna<br>Polarization | Emission Level (dBμV/m) |         | Limit (dBμV/m) |         | Remark |
|--------------------|-------------------------|-------------------------|---------|----------------|---------|--------|
|                    |                         | Peak                    | Average | Peak           | Average |        |
| 2483.5             | V                       | 36.66                   | 20.83   | 74             | 54      | Pass   |

According to above bandedge measurement, emissions radiated outside of the specified frequency bands, (2400-2483.5)MHz except for harmonics, are below general field strength limits under 15.209 It is deemed to comply with section 15.215 and 15.249(d)

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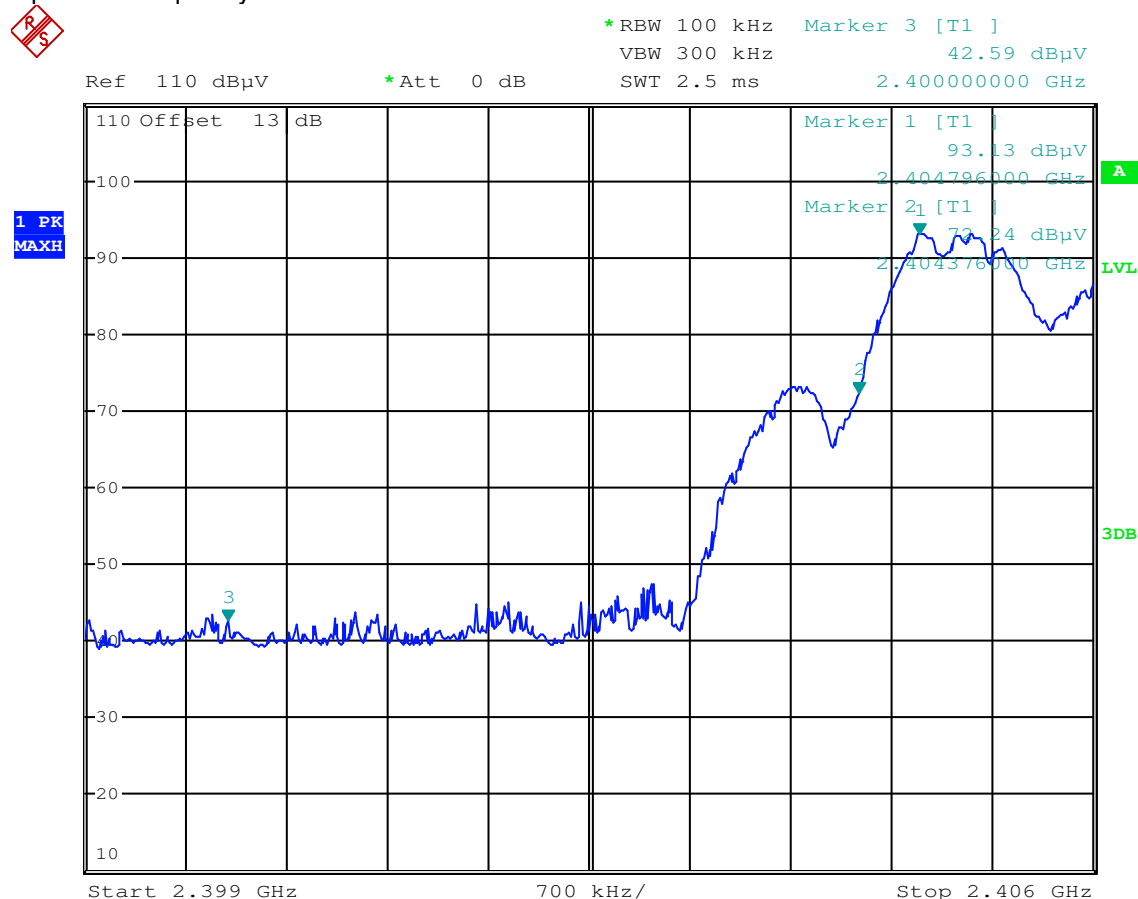
## 6.5 20 dB Bandwidth

Test Requirement: FCC Part15 Subpart C Section 15.215  
Test Method: ANSI C63.10:2013  
Test Date: 2016-05-16  
EUT Operation: 1: Transmission with GFSK

Result: Pass

**Test Plot** : (Worst case: Transmission with GFSK)

Operation frequency : 2405.0 MHz

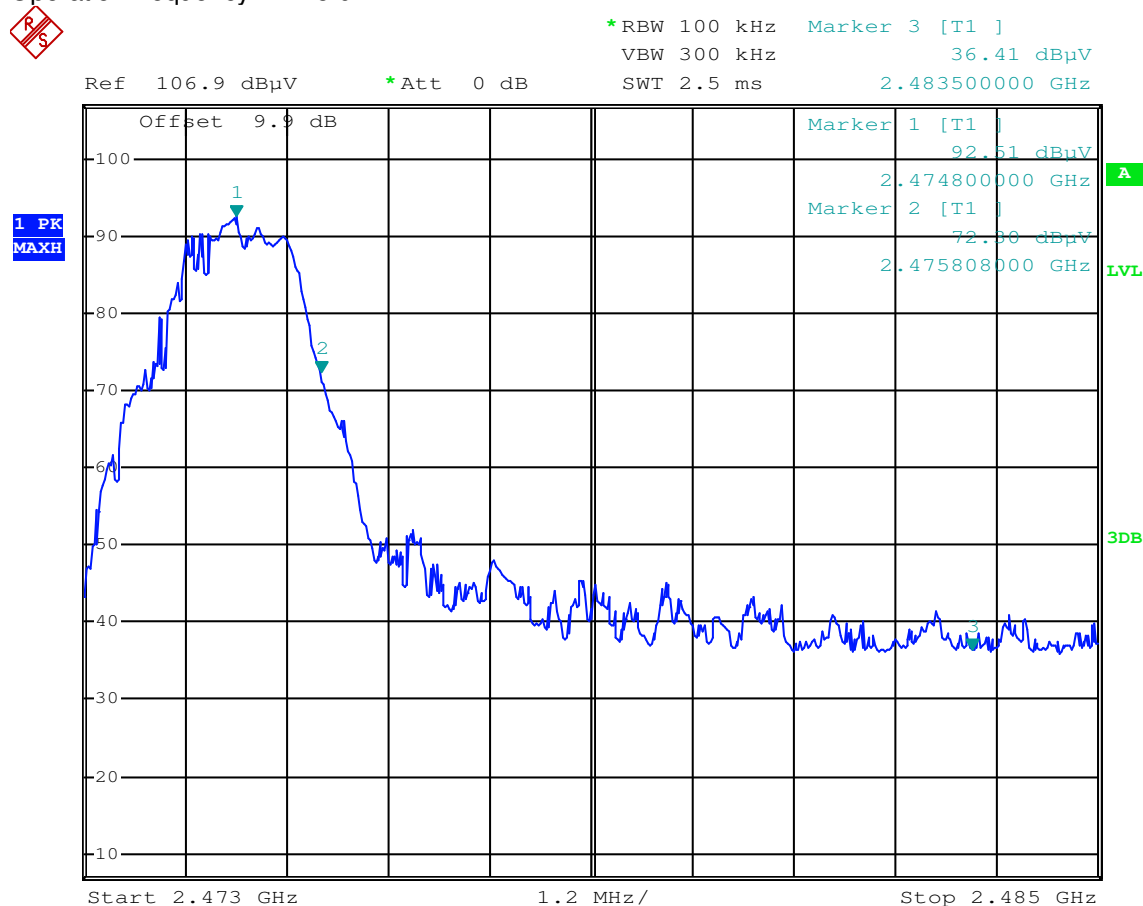


According to above plot, 20dB bandwidth falls in assigned band (2400-2483.5)MHz. It is deemed to comply with section 15.215

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Operation frequency : 2475.0 MHz



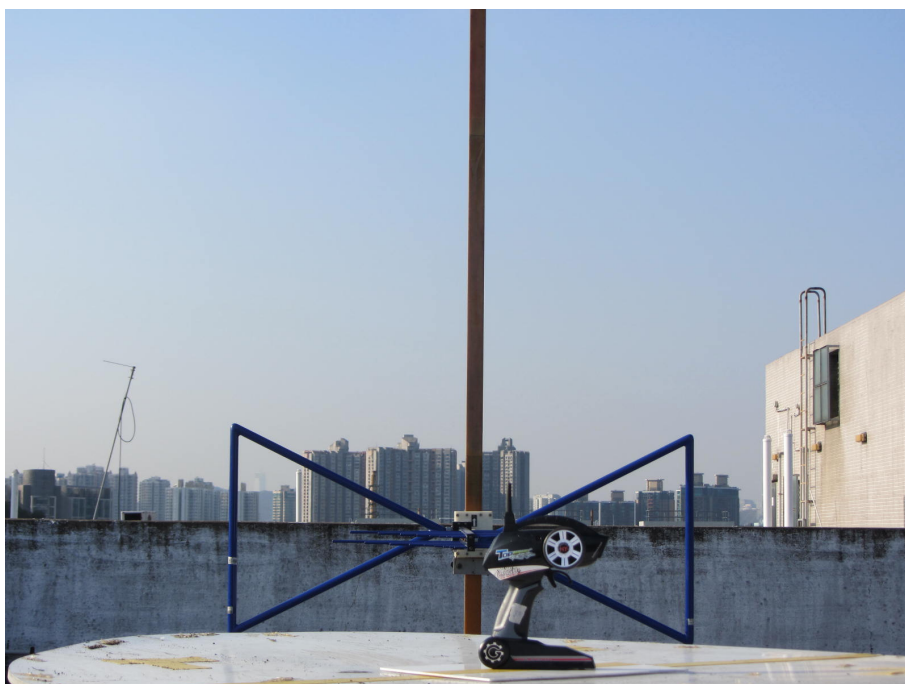
According to above plot, 20dB bandwidth falls in assigned band (2400-2483.5)MHz. It is deemed to comply with section 15.215

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## 7 Photographs

### 7.1 Radiated Emission Test Setup



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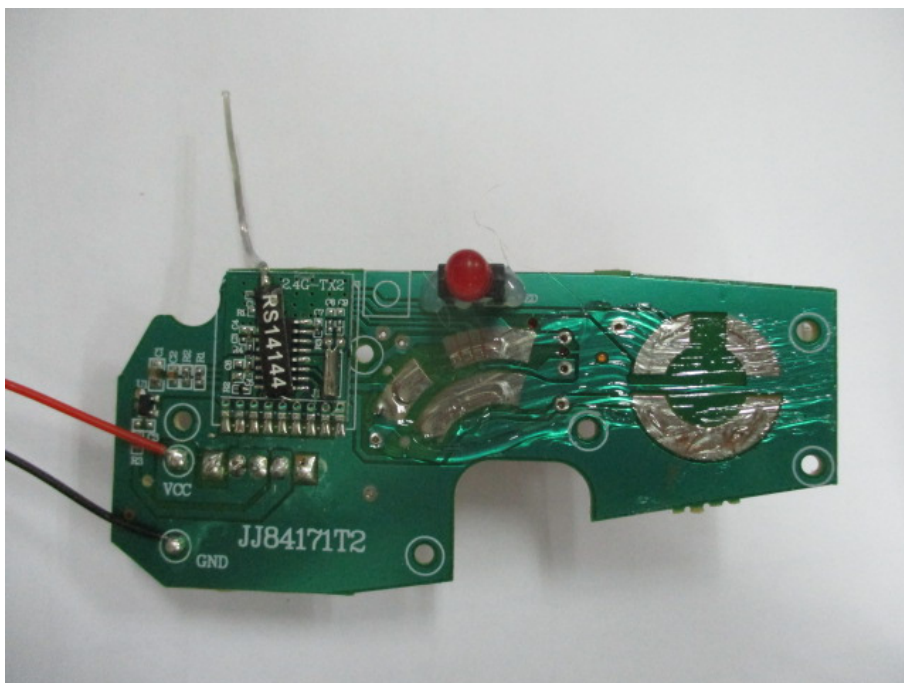
## 7.2 EUT Constructional Details



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## 7.3 EUT Internal Photo



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