

TECHNICAL REPORT



Report No: FCC1605007-01  
File reference No: 2016-05-09

Applicant: Dongguan IMLONG Electronic Co., Ltd

Product: Wireless Race Car Mouse

Model No: F4056931

Brand Name: N/A

Test Standards: FCC Part 15.249 and RSS-210 Issue 8

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations and RSS-210 for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated: May 09, 2016

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone, Futian District,Shenzhen,  
Guangdong China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m Anechoic Chamber  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-02  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: Dongguan IMLONG Electronic Co., Ltd  
Address: Huixiang Road5, Jinglian Community, Qiaotou Town, Dongguan City,  
Guang dong Province, China.  
Telephone: 13316634339/0769-81038178  
Fax: 0769-81038179

### 1.3 Description of EUT

Product: Wireless Race Car Mouse  
Manufacturer: Dongguan IMLONG Electronic Co., Ltd  
Address: Huixiang Road5, Jinglian Community, Qiaotou Town,  
Dongguan City, Guang dong Province, China.  
Brand Name: N/A  
Model Number: F4056931  
Additional Model Name N/A  
Input Voltage: DC3V, Two PCS AAA batteries  
Modulation Type: MSK  
Operation Frequency 2405-2470MHz  
Antenna Designation PCB antenna with gain 1.6dBi Max

### 1.4 Submitted Sample

2 Sample

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1.5 Test Duration

2016-05-03 to 2016-05-06

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

*Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

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| <b>2.0 Test Equipments</b> |                  |                             |             |              |            |
|----------------------------|------------------|-----------------------------|-------------|--------------|------------|
| Instrument Type            | Manufacturer     | Model                       | Serial No.  | Date of Cal. | Due Date   |
| ESPI Test Receiver         | R&S              | ESPI 3                      | 100379      | 2015-08-22   | 2016-08-21 |
| TWO<br>Line-V-NETW         | R&S              | EZH3-Z5                     | 100294      | 2015-08-22   | 2016-08-21 |
| TWO<br>Line-V-NETW         | R&S              | EZH3-Z5                     | 100253      | 2015-08-22   | 2016-08-21 |
| ESDV Test Receiver         | R&S              | ESDV                        | 100008      | 2015-08-22   | 2016-08-21 |
| Impuls-Begrenzer           | R&S              | ESH3-Z2                     | 100281      | 2015-08-22   | 2016-08-21 |
| System Controller          | CT               | SC100                       | -           | --           | --         |
| Loop Antenna               | EMCO             | 6502                        | 00042960    | 2015-08-23   | 2016-08-22 |
| ESPI Test Receiver         | R&S              | ES126                       | 838786/013  | 2015-08-22   | 2016-08-21 |
| 3m Anechoic<br>Chamber     | ZhongYu Electron | 9.2(L)*6.2(W)<br>) * 6.4(H) | --          | 2015-08-23   | 2016-08-22 |
| Horn Antenna               | R&S              | BBHA 9170                   | BBHA9170265 | 2015-08-24   | 2016-08-23 |
| Horn Antenna               | R&S              | BBHA 9120D                  | 9120D-631   | 2015-08-24   | 2016-08-23 |
| Power meter                | Anritsu          | ML2487A                     | 6K00003613  | 2015-08-22   | 2016-08-21 |
| Power sensor               | Anritsu          | MA2491A                     | 32263       | 2015-08-22   | 2016-08-21 |
| Bilog Antenna              | Schwarebeck      | VULB9163                    | 9163/340    | 2015-08-23   | 2016-08-21 |
| 9*6*6 Anechoic             | --               | --                          | N/A         | 2015-08-24   | 2016-08-23 |
| EMI Test Receiver          | RS               | ESCS30                      | 100139      | 2015-08-22   | 2016-08-21 |
| RF Cable                   | SCHWARZBECK      | --                          | --          | 2015-08-23   | 2016-08-22 |
| Pre-Amplifier              | HP               | 8447D                       | 2727A05017  | 2015-08-05   | 2016-08-04 |
| Pre-Amplifier              | EM               | EM30265                     | --          | 2015-08-05   | 2016-08-04 |

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### 3.0 Technical Details

#### 3.1 Summary of test results

| <b>The EUT has been tested according to the following specifications:</b>          |                                      |               |                 |
|--|--------------------------------------|---------------|-----------------|
| <b>Standard</b>  | <b>Test Type</b>                     | <b>Result</b> | <b>Notes</b>    |
| <b>FCC Part 15, Paragraph 15.207 and RSS-210</b>                                   | <b>Conducted Emission Test</b>       | <b>PASS</b>   | <b>Complies</b> |
| <b>FCC Part 15 Subpart C Paragraph 15.249(a) &amp; 15.249(b) Limit and RSS-210</b> | <b>Field Strength of Fundamental</b> | <b>PASS</b>   | <b>Complies</b> |
| <b>FCC Part 15, Paragraph 15.209 and RSS-210</b>                                   | <b>Radiated Emission Test</b>        | <b>PASS</b>   | <b>Complies</b> |
| <b>FCC Part 15 Subpart C Paragraph 15.249(d) Limit and RSS-210</b>                 | <b>Band Edge Test</b>                | <b>PASS</b>   | <b>Complies</b> |

#### 3.2 Test Standards

**FCC Part 15 Subpart C, Paragraph 15.249 , RSS-210 Issue 8, ANSI C63.4 :2014 and ANSI C63.10 :2013**

#### 4.0 EUT Modification

**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES**

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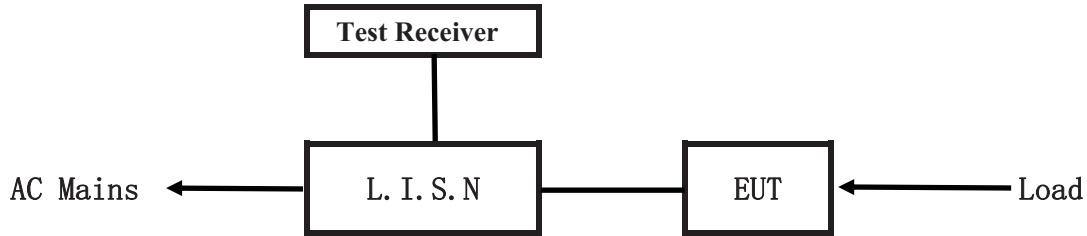
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**5. Power Line Conducted Emission Test**

5.1 Schematics of the test

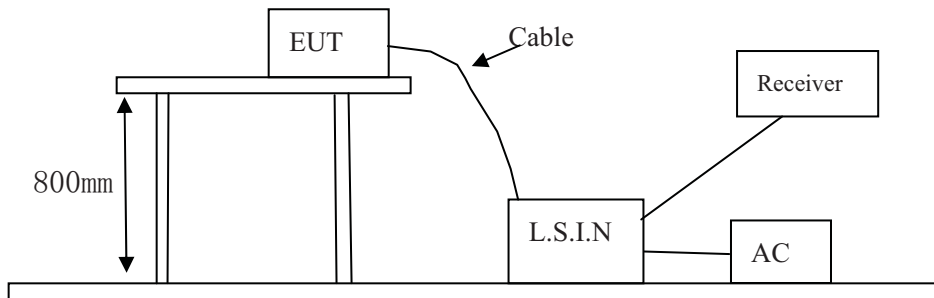


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

| Device                  | Manufacturer                        | Model    | FCC ID         |
|-------------------------|-------------------------------------|----------|----------------|
| Wireless Race Car Mouse | Dongguan IMLONG Electronic Co., Ltd | F4056931 | 2AH9Y-F4056931 |

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B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A    |              |       |            |

C. Peripherals

| Device | Manufacturer | Model | FCC ID/DOC | Cable |
|--------|--------------|-------|------------|-------|
| N/A    |              |       |            |       |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107 and 15.207

| Frequency(MHz) | Class A Limits (dB $\mu$ V) |               | Class B Limits (dB $\mu$ V) |               |
|----------------|-----------------------------|---------------|-----------------------------|---------------|
|                | Quasi-peak Level            | Average Level | Quasi-peak Level            | Average Level |
| 0.15 ~ 0.50    | 79.0                        | 66.0          | 66.0~56.0*                  | 56.0~46.0*    |
| 0.50 ~ 5.00    | 73.0                        | 60.0          | 56.0                        | 46.0          |
| 5.00 ~ 30.00   | 73.0                        | 60.0          | 60.0                        | 50.0          |

- Notes:
- \*Decreasing linearly with logarithm of frequency.
  - The tighter limit shall apply at the transition frequencies

5.6 Test Results

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

**Note: Due to Battery operation, this test item not applicable.**

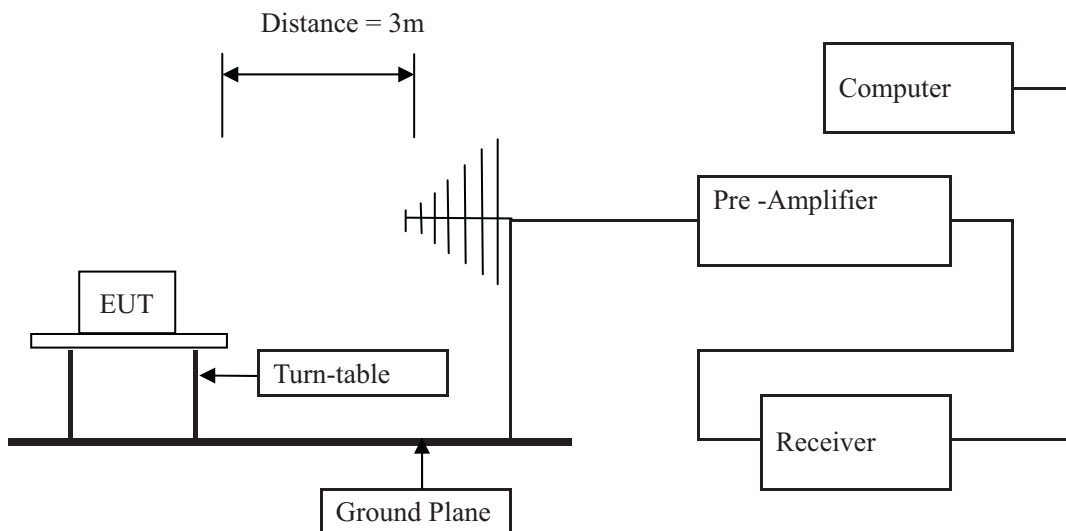


## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at TIMEWAY EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup



### 6.2 Configuration of The EUT

Same as section 5.3 of this report  
New battery is used during all test

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**A FCC Part 15 Subpart C Paragraph 15.249(a) Limit**

| Fundamental Frequency (MHz) | Field Strength of Fundamental (3m) |                         | Field Strength of Harmonics (3m) |              |           |
|-----------------------------|------------------------------------|-------------------------|----------------------------------|--------------|-----------|
|                             | mV/m                               | dBuV/m                  | uV/m                             | dBuV/m       |           |
| 2400-2483.5                 | 50                                 | 94 (Average) 114 (Peak) | 500                              | 54 (Average) | 74 (Peak) |

- Note:
1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
  2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
  3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

**B. Frequencies in restricted band are complied to limit on Paragraph 15.209.**

| Frequency Range (MHz) | Distance (m) | Field strength (dB $\mu$ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88                 | 3            | 40.0                          |
| 88-216                | 3            | 43.5                          |
| 216-960               | 3            | 46.0                          |
| Above 960             | 3            | 54.0                          |

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
  4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
  - 5 All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-18G, the final emission level got using PK. For fundamental measurement, PK detector used.



**6.5 Test result**

**A Fundamental & Harmonics Radiated Emission Data**

|               |                                    |              |                               |
|---------------|------------------------------------|--------------|-------------------------------|
| Product:      | Wireless Race Car Mouse            | Test Mode:   | Keep transmitting-Low Channel |
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                          |
| Test Voltage: | DC3V                               | Humidity:    | 56%                           |
| Test Result:  | Pass                               |              |                               |

| Frequency (MHz) | Emission PK/AV (dBuV/m) | Horiz / Vert | Limits PK/AV (dBuV/m) | Margin (dB)   |
|-----------------|-------------------------|--------------|-----------------------|---------------|
| 2405            | 92.37(PK)/ 83.63(AV)    | H            | 114/94                | -21.63/-10.37 |
| 2405            | 92.22(PK)/ 83.29(AV)    | V            | 114/94                | -21.78/-10.71 |
| 4810            | --                      | H/V          | 74/54                 | --            |
| 7215            | --                      | H/V          | 74/54                 | --            |
| 9620            | --                      | H/V          | 74/54                 | --            |
| 12025           | --                      | H/V          | 74/54                 | --            |
| 14430           | --                      | H/V          | 74/54                 | --            |
| 16835           | --                      | H/V          | 74/54                 | --            |
| 19240           | --                      | H/V          | 74/54                 | --            |
| 21645           | --                      | H/V          | 74/54                 | --            |
| 24050           | --                      | H/V          | 74/54                 | --            |

- Note:
- (1) PK= Peak, AV= Average
  - (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
  - (3)Margin=Emission-Limits
  - (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
  - (5) For fundamental frequency RBW 3MHz VBW 3MHz Peak detector is used for PK value RMS detector is for AV value , For other emission , RBW 1MHz VBW 1MHz Peak detector is used for PK value RMS detector is for AV value

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|               |                                    |              |                                  |
|---------------|------------------------------------|--------------|----------------------------------|
| Product:      | Wireless Race Car Mouse            | Test Mode:   | Keep transmitting-Middle Channel |
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                             |
| Test Voltage: | DC3V                               | Humidity:    | 56%                              |
| Test Result:  | Pass                               |              |                                  |

| Frequency (MHz) | Emission PK/AV (dBuV/m) | Horiz / Vert | Limits PK/AV (dBuV/m) | Margin (dB)   |
|-----------------|-------------------------|--------------|-----------------------|---------------|
| 2430            | 93.28(PK) /84.08(PK)    | H            | 114/94                | -20.72/-9.92  |
| 2430            | 93.19(PK)/ 83.89(PK)    | V            | 114/94                | -20.81/-10.11 |
| 4860            | --                      | H/V          | 74/54                 | --            |
| 7290            | --                      | H/V          | 74/54                 | --            |
| 9720            | --                      | H/V          | 74/54                 | --            |
| 12150           | --                      | H/V          | 74/54                 | --            |
| 14580           | --                      | H/V          | 74/54                 | --            |
| 17010           | --                      | H/V          | 74/54                 | --            |
| 19440           | --                      | H/V          | 74/54                 | --            |
| 21870           | --                      | H/V          | 74/54                 | --            |
| 24300           | --                      | H/V          | 74/54                 | --            |

- Note:
- (1) PK= Peak, AV= Average
  - (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
  - (3)Margin=Emission-Limits
  - (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
  - (5) For fundamental frequency RBW 3MHz VBW 3MHz Peak detector is used for PK value RMS detector is for AV value , For other emission , RBW 1MHz VBW 1MHz Peak detector is used for PK value RMS detector is for AV value

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|               |                                    |              |                                |
|---------------|------------------------------------|--------------|--------------------------------|
| Product:      | Wireless Race Car Mouse            | Test Mode:   | Keep transmitting-High Channel |
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                           |
| Test Voltage: | DC3V                               | Humidity:    | 56%                            |
| Test Result:  | Pass                               |              |                                |

| Frequency (MHz) | Emission PK/AV (dBuV/m) | Horiz / Vert | Limits PK/AV (dBuV/m) | Margin (dB)  |
|-----------------|-------------------------|--------------|-----------------------|--------------|
| 2470            | 94.36(PK)/ 85.20(PK)    | H            | 114/94                | -19.64/-8.80 |
| 2470            | 94.22(PK)/ 85.02(PK)    | V            | 114/94                | -19.78/-8.98 |
| 4940            | --                      | H/V          | 74/54                 | --           |
| 7410            | --                      | H/V          | 74/54                 | --           |
| 9880            | --                      | H/V          | 74/54                 | --           |
| 12350           | --                      | H/V          | 74/54                 | --           |
| 14820           | --                      | H/V          | 74/54                 | --           |
| 17290           | --                      | H/V          | 74/54                 | --           |
| 19760           | --                      | H/V          | 74/54                 | --           |
| 22230           | --                      | H/V          | 74/54                 | --           |
| 24700           | --                      | H/V          | 74/54                 | --           |

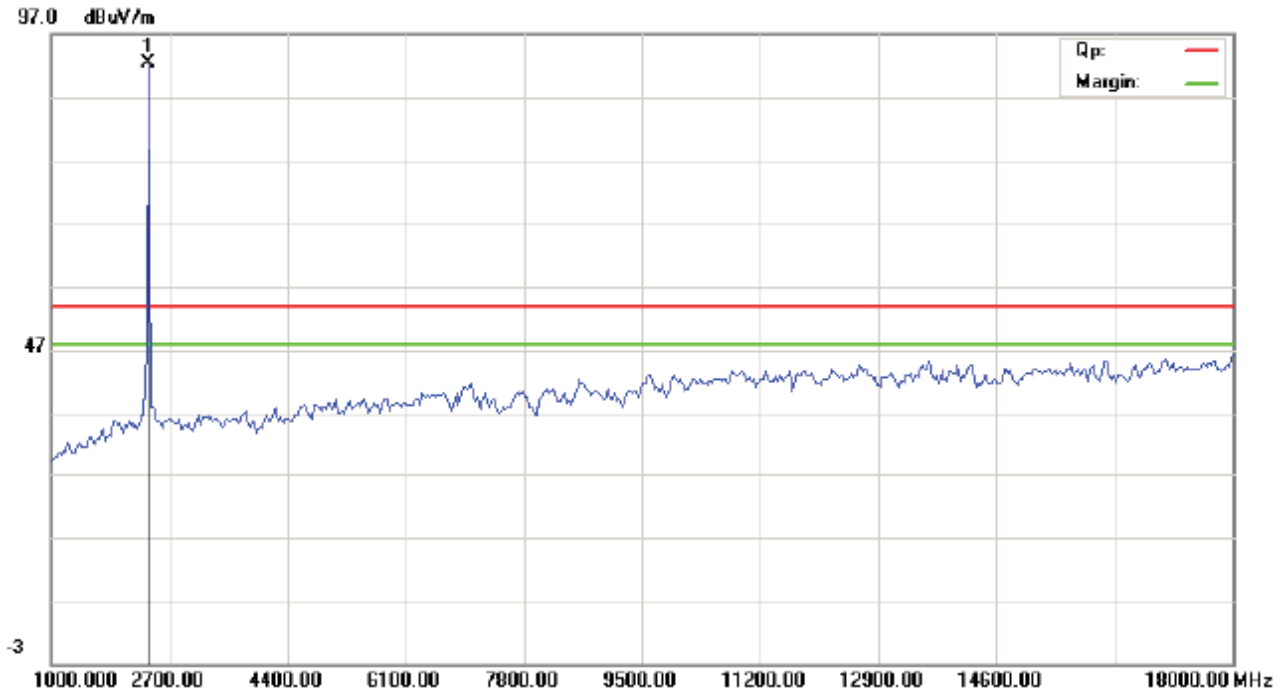
- Note:
- (1) PK= Peak, AV= Average
  - (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
  - (3) Margin=Emission-Limits
  - (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
  - (5) For fundamental frequency RBW 3MHz VBW 3MHz Peak detector is used for PK value RMS detector is for AV value , For other emission , RBW 1MHz VBW 1MHz Peak detector is used for PK value RMS detector is for AV value

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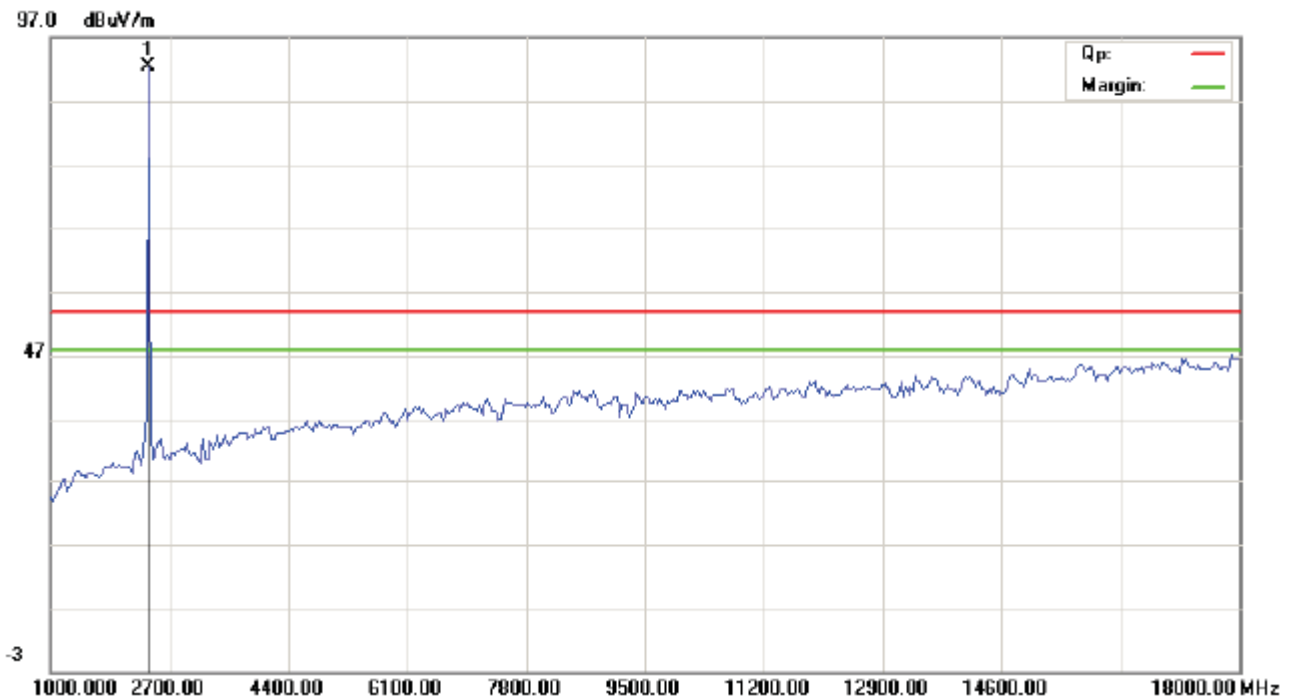


Please refer to the following test plots for details: Low Channel

### Horizontal



### Vertical



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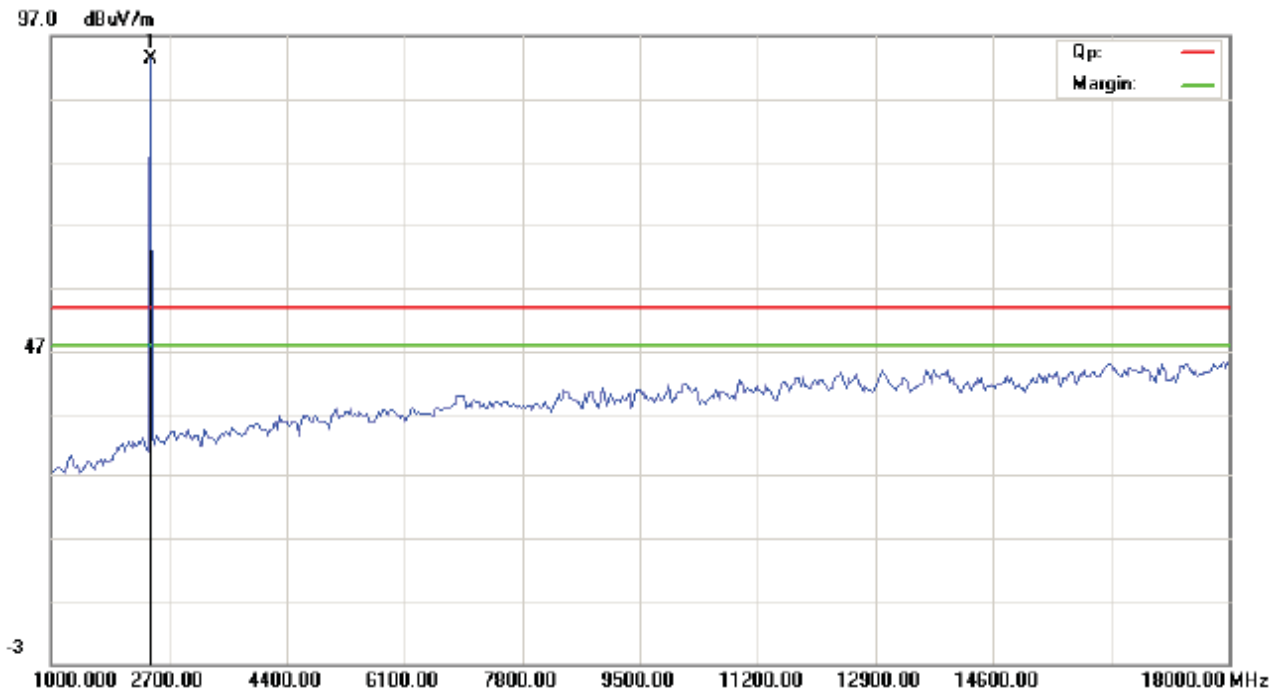
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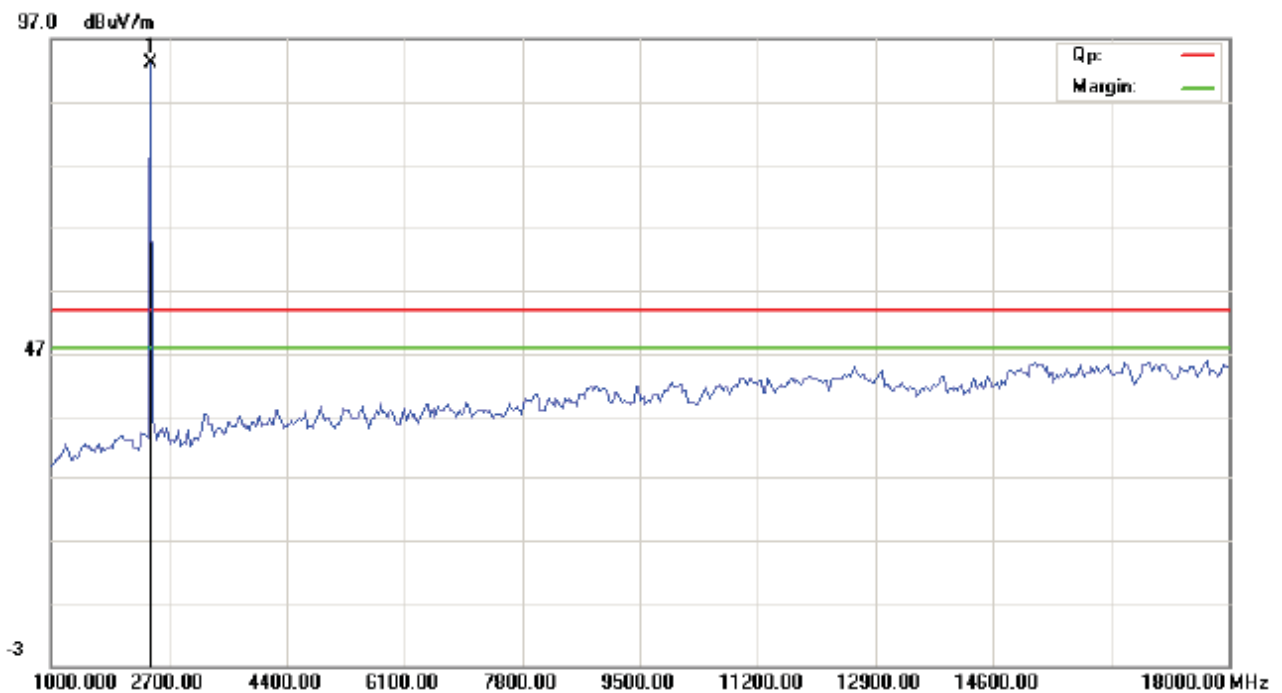


Please refer to the following test plots for details: Middle Channel

### Horizontal



### Vertical



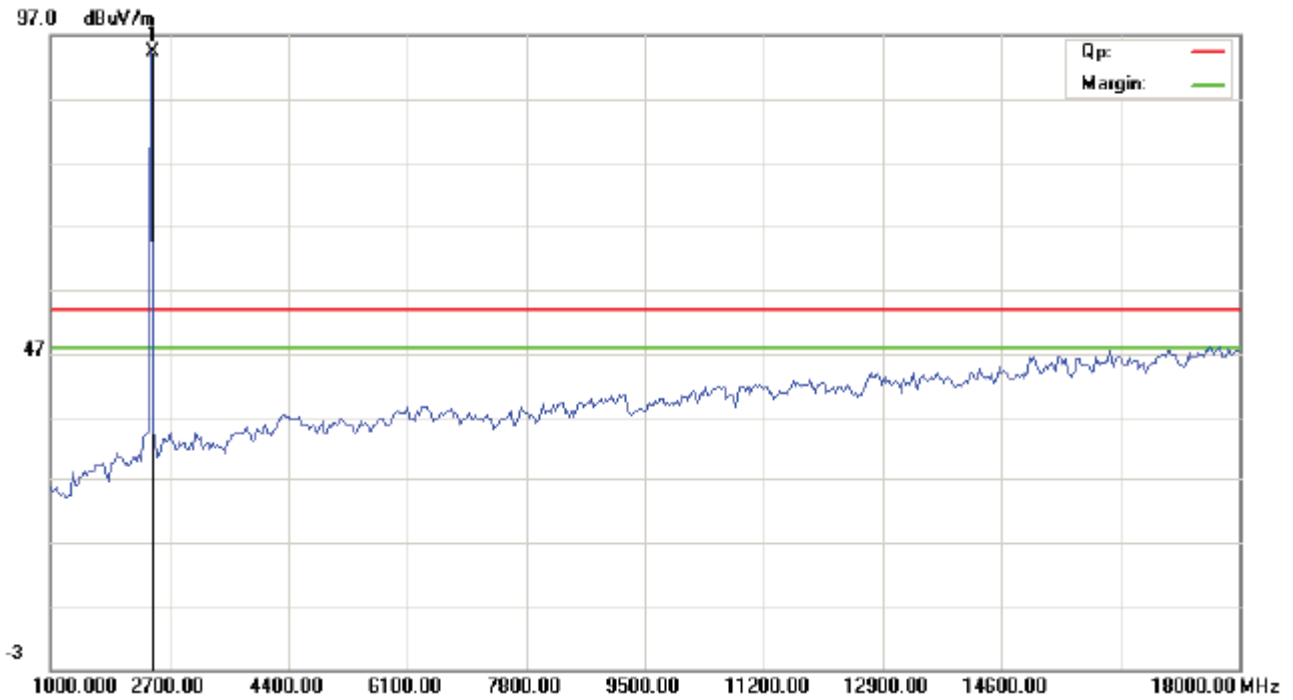
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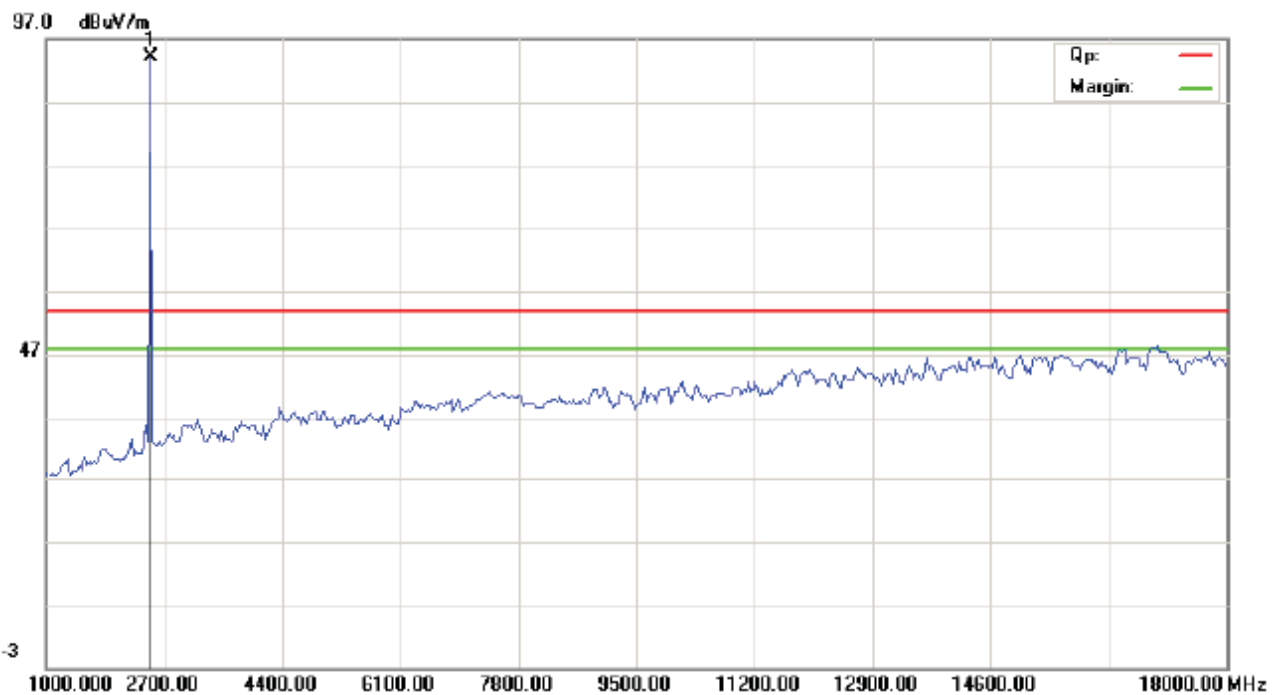


Please refer to the following test plots for details: High Channel

**Horizontal**



**Vertical**



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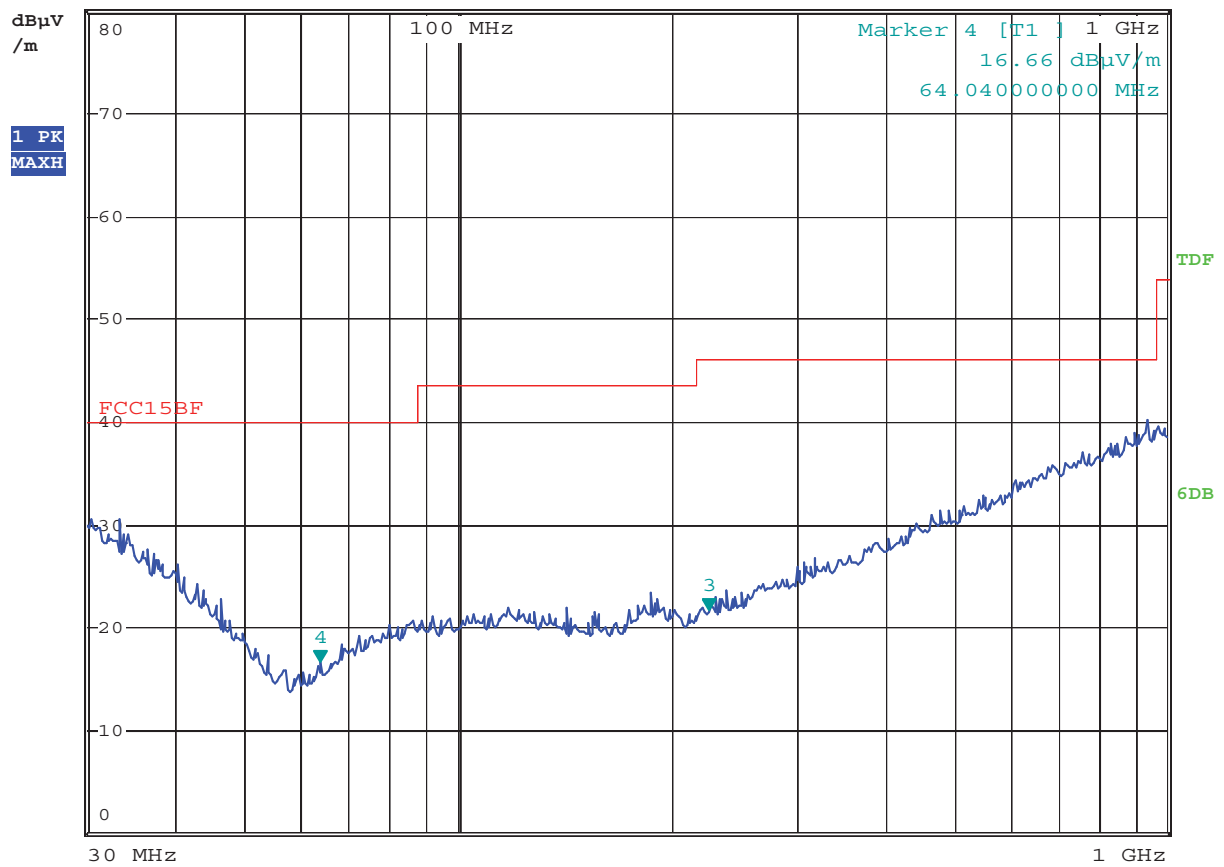
**B. General Radiated Emission Data**  
**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual

|  |                           |               |                    |
|--|---------------------------|---------------|--------------------|
|  | <b>RECEIVER FREQUENCY</b> | RBW 120 kHz   | Marker 3 [T1 ]     |
|  | 521 MHz                   | Att 10 dB     | 21.76 dB $\mu$ V/m |
|  |                           | MT 50 $\mu$ s | 226.360000000 MHz  |
|  |                           | PREAMP ON     |                    |



Date: 5.MAY.2016 10:57:08

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 226.360         | 21.76                   | H                | 46.00                   |
| 64.040          | 16.66                   | H                | 40.00                   |

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**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

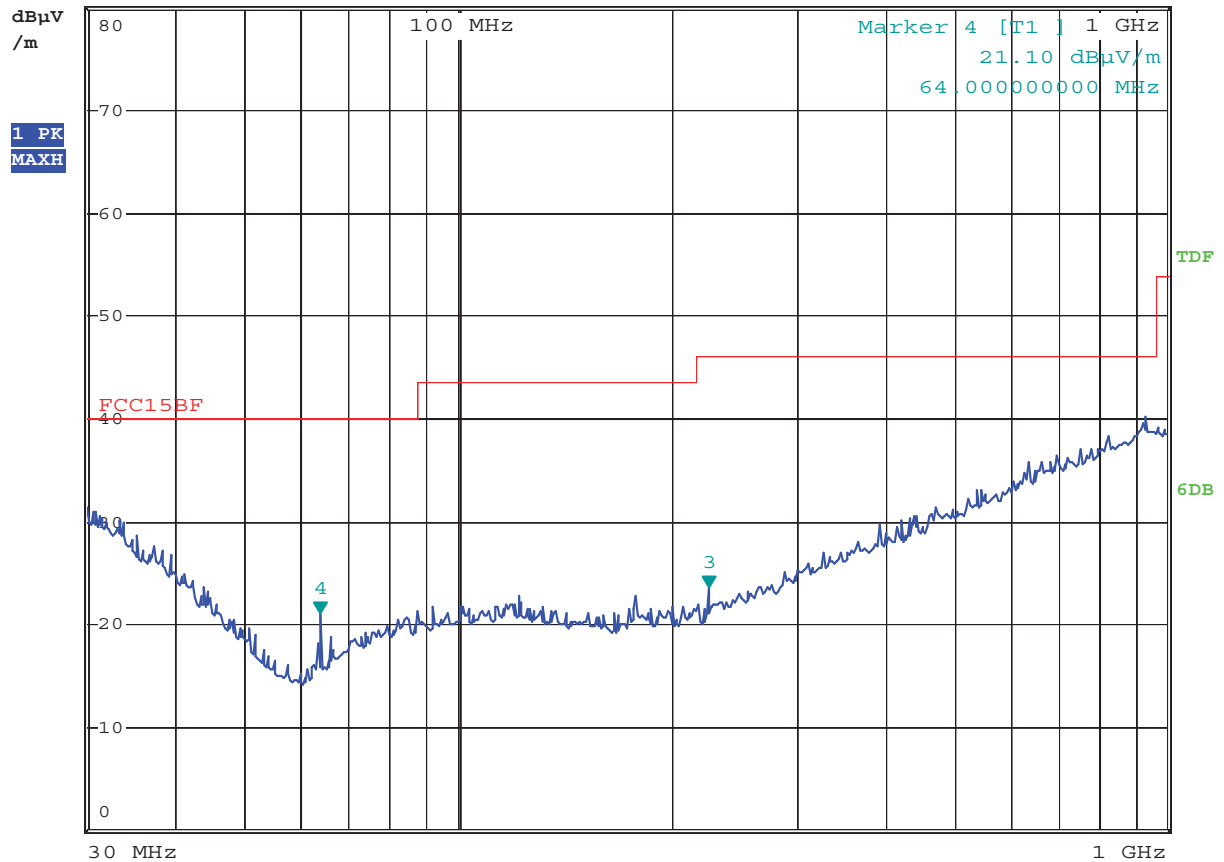
**Results: Pass**

Please refer to following diagram for individual



**MARKER 3**  
 226.32 MHz  
 Att 10 dB

RBW 120 kHz Marker 3 [T1 ]  
 MT 50 μs 23.71 dBμV/m  
 PREAMP ON 226.320000000 MHz



Date: 5.MAY.2016 10:54:16

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|---------------------|------------------|---------------------|
| 226.320         | 23.71               | V                | 46.00               |
| 64.000          | 21.10               | V                | 40.00               |

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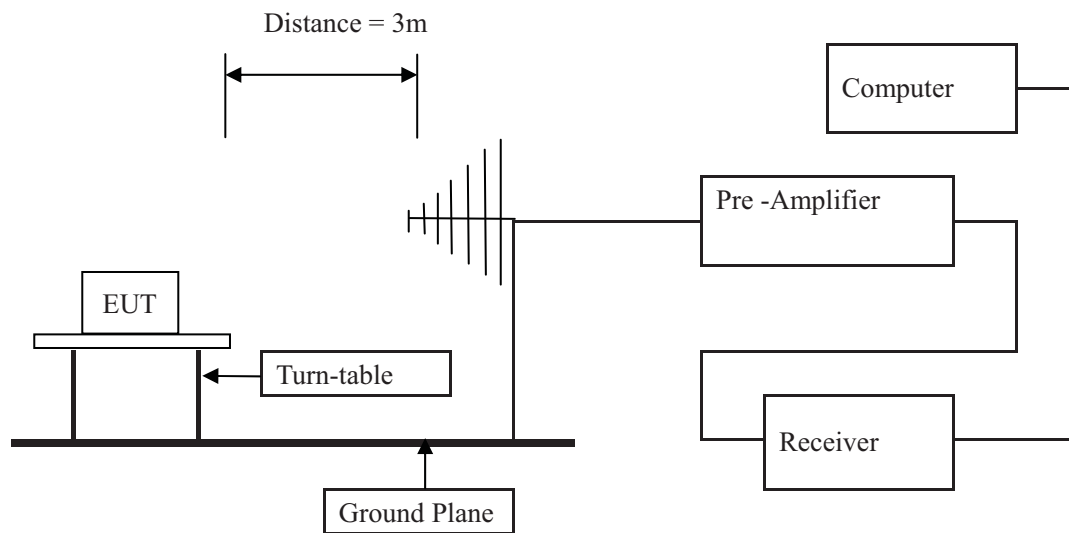


## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at TIMEWAY EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 899988
- (2) Set Spectrum as RBW=120kHz,VBW=300kHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge 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 radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Note: This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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**7.6 Test Result**

|              |                         |       |              |                 |
|--------------|-------------------------|-------|--------------|-----------------|
| Product:     | Wireless Race Car Mouse |       | Polarity     | Horizontal      |
| Mode         | Keeping Transmitting    |       | Test Voltage | DC3V            |
| Temperature  | 24 deg. C,              |       | Humidity     | 56% RH          |
| Test Result: | Pass                    |       | --           | --              |
| 2400MHz      | PK (dB $\mu$ V/m)       | 41.38 | Limit        | 74 dB $\mu$ V/m |
| 2400MHz      | AV (dB $\mu$ V/m)       | --    | Limit        | 54 dB $\mu$ V/m |
| 2390 MHz     | PK (dB $\mu$ V/m)       | 38.12 | Limit        | 74 dB $\mu$ V/m |
| 2390 MHz     | AV (dB $\mu$ V/m)       | --    | Limit        | 54 dB $\mu$ V/m |

|              |                         |       |              |                 |
|--------------|-------------------------|-------|--------------|-----------------|
| Product:     | Wireless Race Car Mouse |       | Detector     | Vertical        |
| Mode         | Keeping Transmitting    |       | Test Voltage | DC3V            |
| Temperature  | 24 deg. C,              |       | Humidity     | 56% RH          |
| Test Result: | Pass                    |       | --           | --              |
| 2400MHz      | PK (dB $\mu$ V/m)       | 40.90 | Limit        | 74 dB $\mu$ V/m |
| 2400MHz      | AV (dB $\mu$ V/m)       | --    | Limit        | 54 dB $\mu$ V/m |
| 2390 MHz     | PK (dB $\mu$ V/m)       | 37.88 | Limit        | 74 dB $\mu$ V/m |
| 2390 MHz     | AV (dB $\mu$ V/m)       | --    | Limit        | 54 dB $\mu$ V/m |

|              |                         |       |              |                 |
|--------------|-------------------------|-------|--------------|-----------------|
| Product:     | Wireless Race Car Mouse |       | Polarity     | Horizontal      |
| Mode         | Keeping Transmitting    |       | Test Voltage | DC3V            |
| Temperature  | 24 deg. C,              |       | Humidity     | 56% RH          |
| Test Result: | Pass                    |       | --           | --              |
| 2483.5MHz    | PK (dB $\mu$ V/m)       | 42.15 | Limit        | 74 dB $\mu$ V/m |
| 2483.5MHz    | AV (dB $\mu$ V/m)       | --    | Limit        | 54 dB $\mu$ V/m |

|              |                         |       |              |                 |
|--------------|-------------------------|-------|--------------|-----------------|
| Product:     | Wireless Race Car Mouse |       | Detector     | Vertical        |
| Mode         | Keeping Transmitting    |       | Test Voltage | DC3V            |
| Temperature  | 24 deg. C,              |       | Humidity     | 56% RH          |
| Test Result: | Pass                    |       | --           | --              |
| 2483.5MHz    | PK (dB $\mu$ V/m)       | 42.40 | Limit        | 74 dB $\mu$ V/m |
| 2483.5MHz    | AV (dB $\mu$ V/m)       | --    | Limit        | 54 dB $\mu$ V/m |

Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

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## 8.0 Antenna Requirement

### Applicable Standard

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 shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna. The antenna gain is 1.6dBi Max. It fulfills the requirement of this section.  
Test Result: Pass

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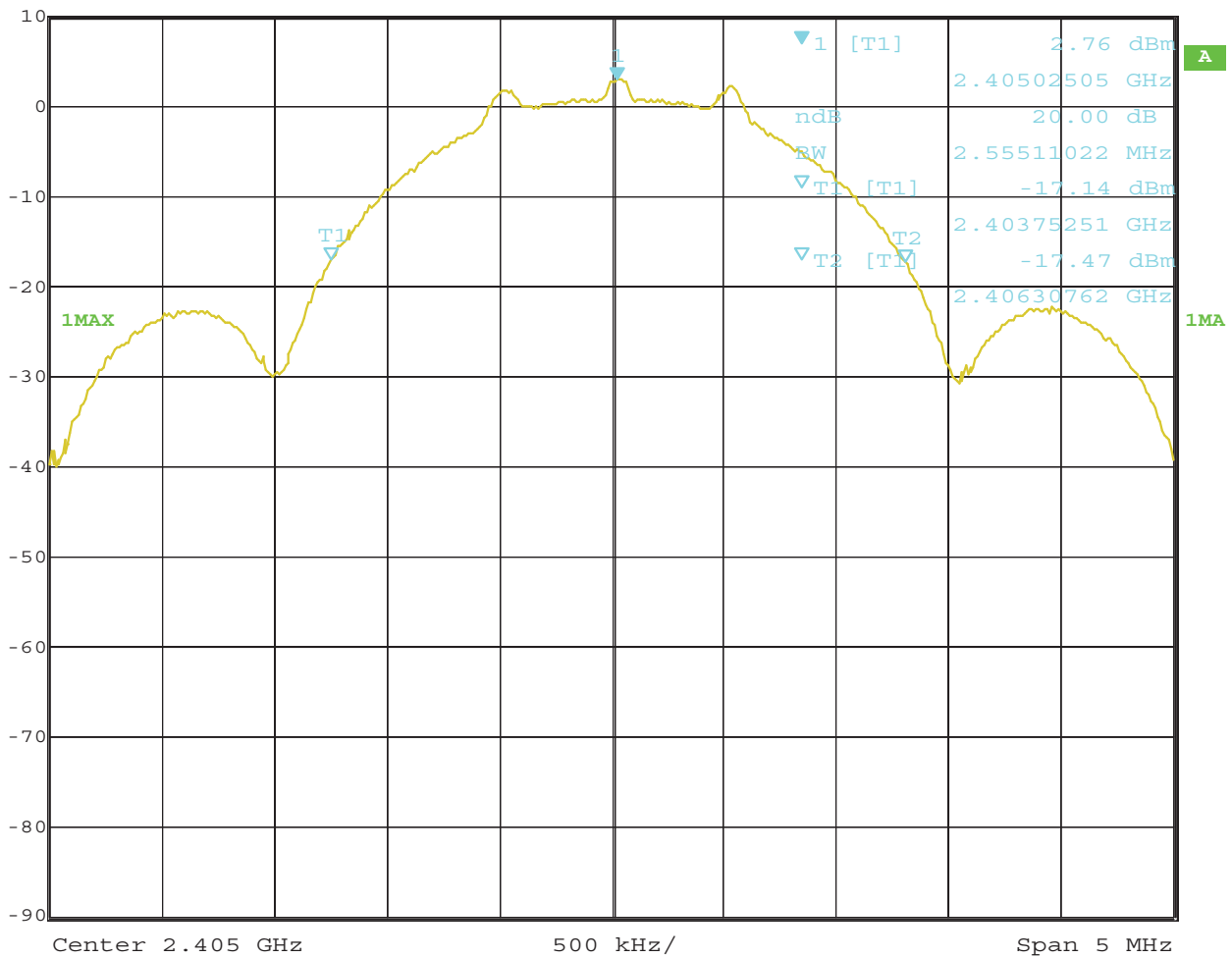
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| 9.0 20dB Bandwidth Measurement |                         |              |                   |
|--------------------------------|-------------------------|--------------|-------------------|
| Product:                       | Wireless Race Car Mouse | Test Mode:   | Keep transmitting |
| Mode                           | Keeping Transmitting    | Test Voltage | DC3V              |
| Temperature                    | 24 deg. C,              | Humidity     | 56% RH            |
| Test Result:                   | Pass                    | Detector     | PK                |
| 20dB Bandwidth                 | 2.56MHz                 | --           | --                |



Marker 1 [T1 ndB] RBW 100 kHz RF Att 20 dB  
 Ref Lvl ndB 20.00 dB VBW 300 kHz  
 10 dBm BW 2.55511022 MHz SWT 21 ms Unit dBm



Date: 4.MAY.2016 15:27:15

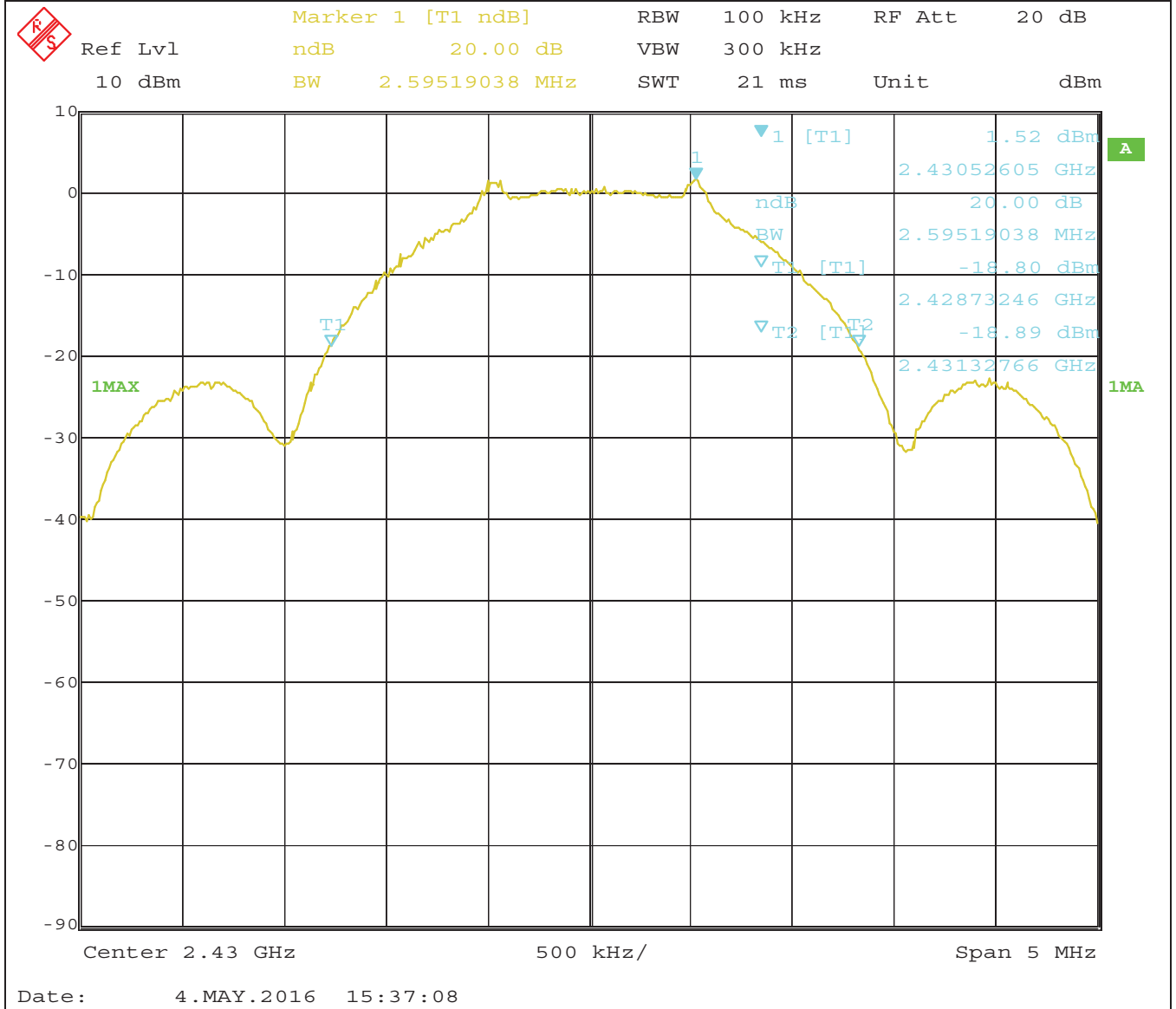
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|                |                         |              |                   |
|----------------|-------------------------|--------------|-------------------|
| Product:       | Wireless Race Car Mouse | Test Mode:   | Keep transmitting |
| Mode           | Keeping Transmitting    | Test Voltage | DC3V              |
| Temperature    | 24 deg. C,              | Humidity     | 56% RH            |
| Test Result:   | Pass                    | Detector     | PK                |
| 20dB Bandwidth | 2.60MHz                 | --           | --                |

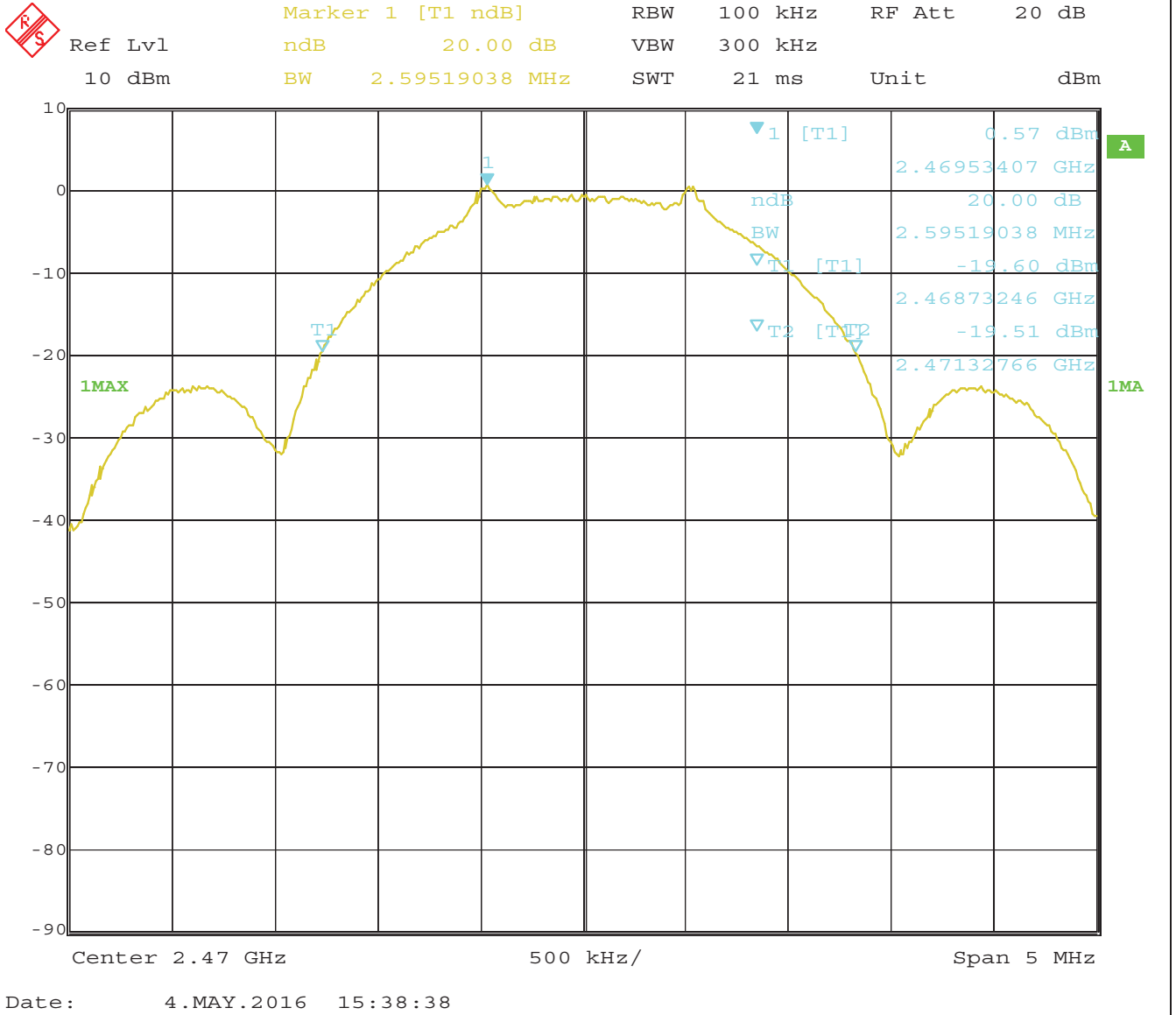


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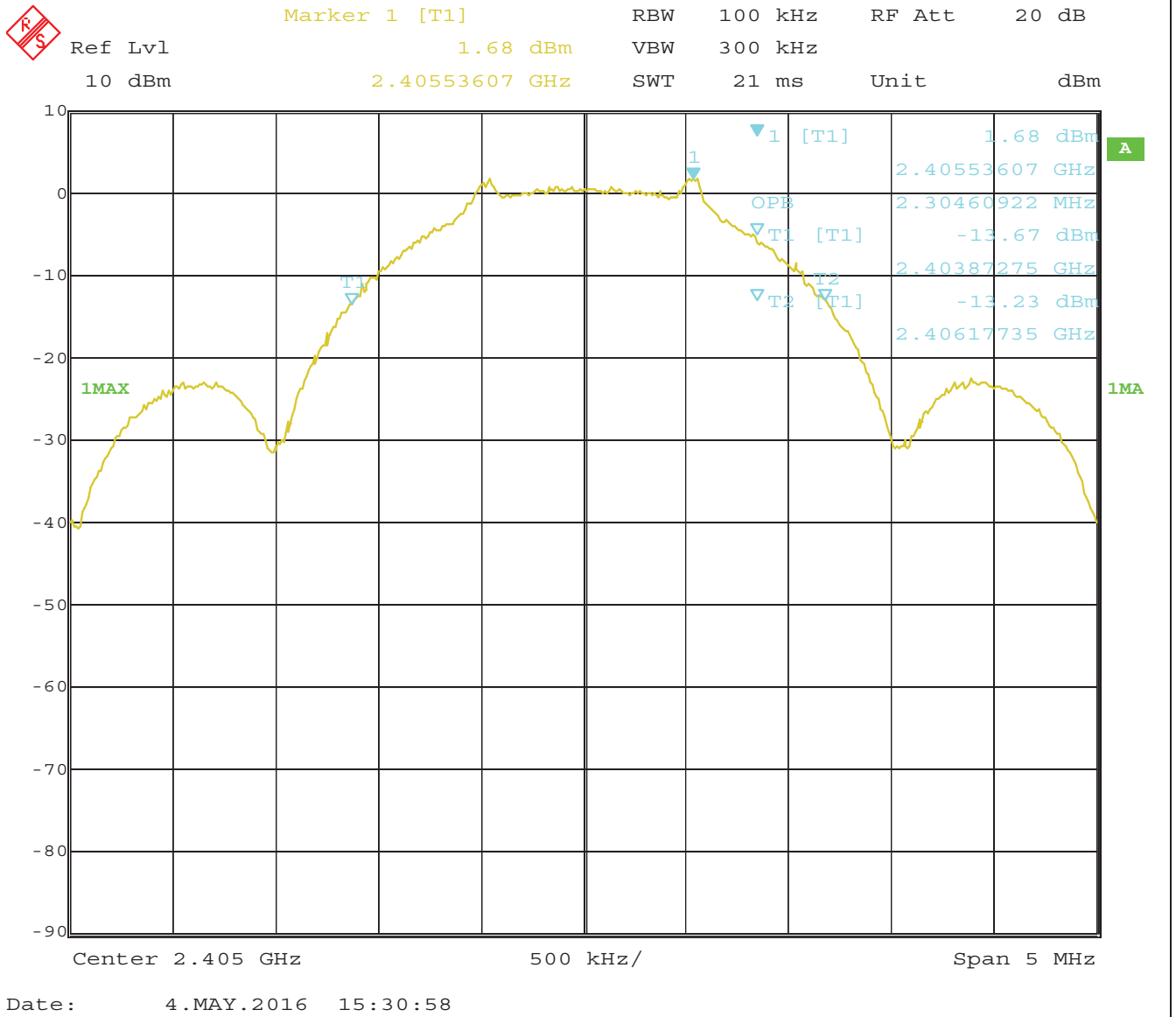
|                |                         |              |                   |
|----------------|-------------------------|--------------|-------------------|
| Product:       | Wireless Race Car Mouse | Test Mode:   | Keep transmitting |
| Mode           | Keeping Transmitting    | Test Voltage | DC3V              |
| Temperature    | 24 deg. C,              | Humidity     | 56% RH            |
| Test Result:   | Pass                    | Detector     | PK                |
| 20dB Bandwidth | 2.60MHz                 | --           | --                |



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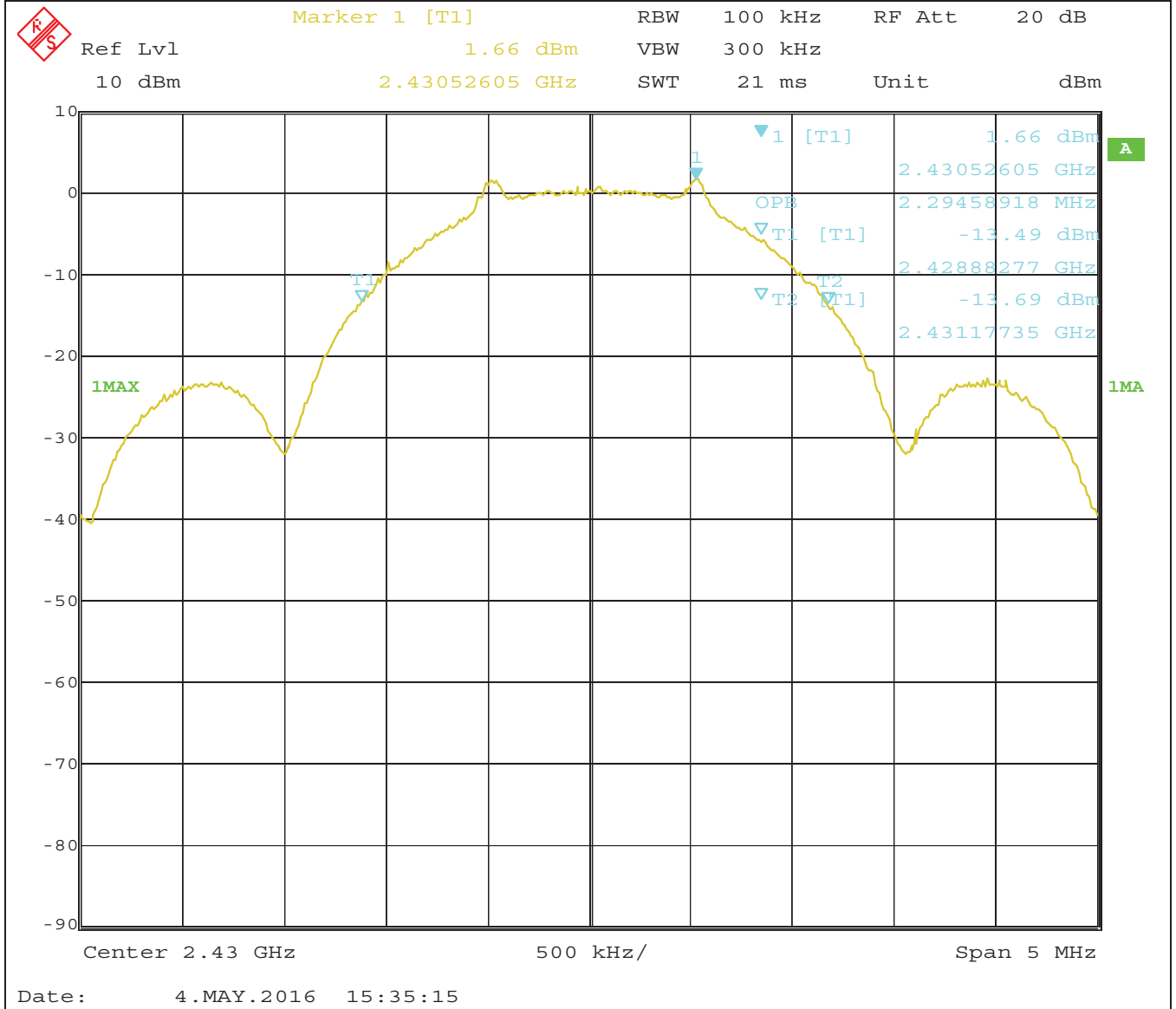
| 99% Bandwidth Measurement |                         |              |                   |
|---------------------------|-------------------------|--------------|-------------------|
| Product:                  | Wireless Race Car Mouse | Test Mode:   | Keep transmitting |
| Mode                      | Keeping Transmitting    | Test Voltage | DC3V              |
| Temperature               | 24 deg. C,              | Humidity     | 56% RH            |
| Test Result:              | Pass                    | Detector     | PK                |
| 99% Bandwidth             | 2.30MHz                 | --           | --                |



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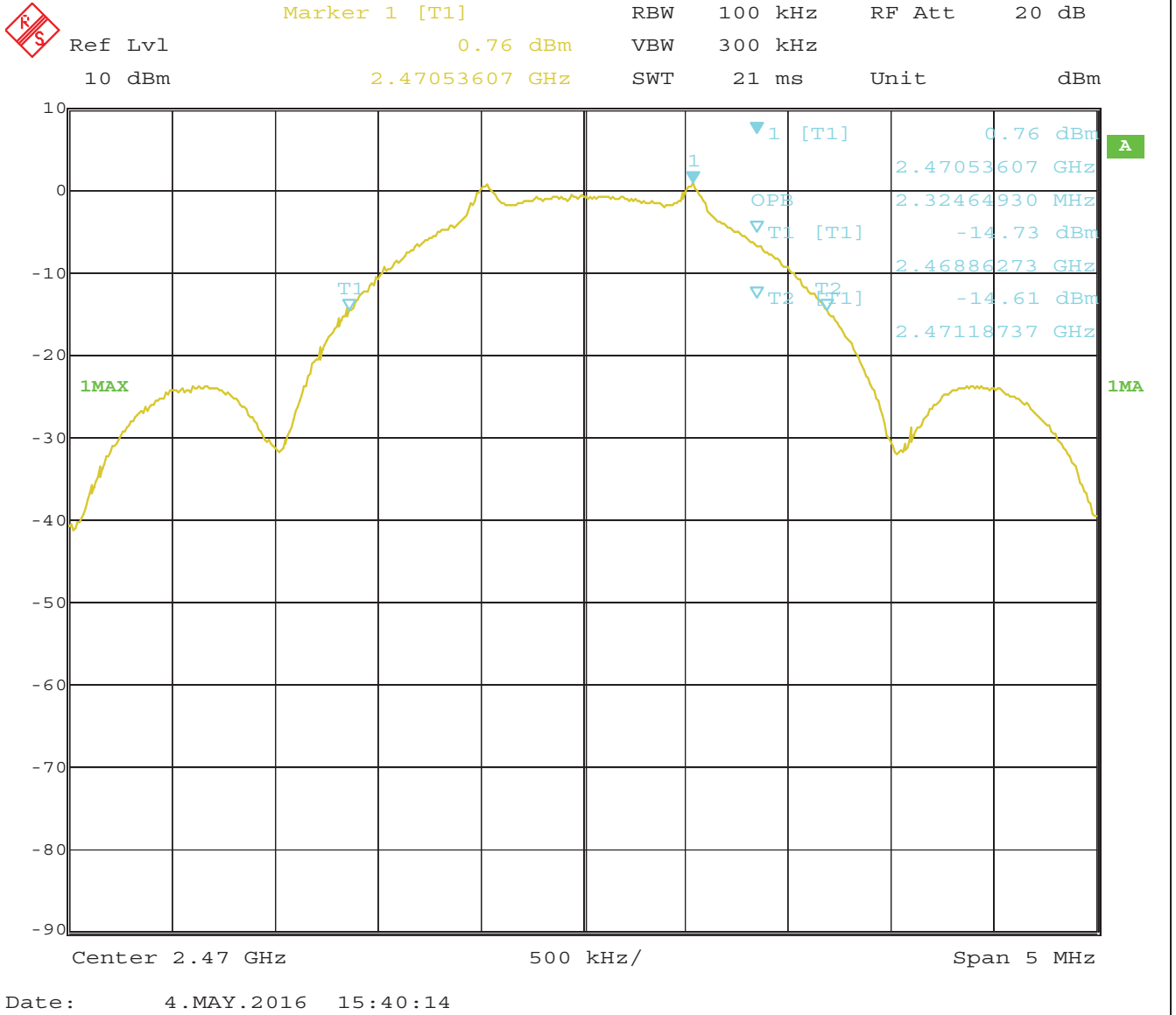
|               |                         |              |                   |
|---------------|-------------------------|--------------|-------------------|
| Product:      | Wireless Race Car Mouse | Test Mode:   | Keep transmitting |
| Mode          | Keeping Transmitting    | Test Voltage | DC3V              |
| Temperature   | 24 deg. C,              | Humidity     | 56% RH            |
| Test Result:  | Pass                    | Detector     | PK                |
| 99% Bandwidth | 2.29MHz                 | --           | --                |



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|               |                         |              |                   |
|---------------|-------------------------|--------------|-------------------|
| Product:      | Wireless Race Car Mouse | Test Mode:   | Keep transmitting |
| Mode          | Keeping Transmitting    | Test Voltage | DC3V              |
| Temperature   | 24 deg. C,              | Humidity     | 56% RH            |
| Test Result:  | Pass                    | Detector     | PK                |
| 99% Bandwidth | 2.32MHz                 | --           | --                |



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## 10.0 FCC ID Label

**FCC ID: 2AH9Y-F4056931**

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### Mark Location:



FCC Label Location

The report refers only to the sample tested and does not apply to the bulk.

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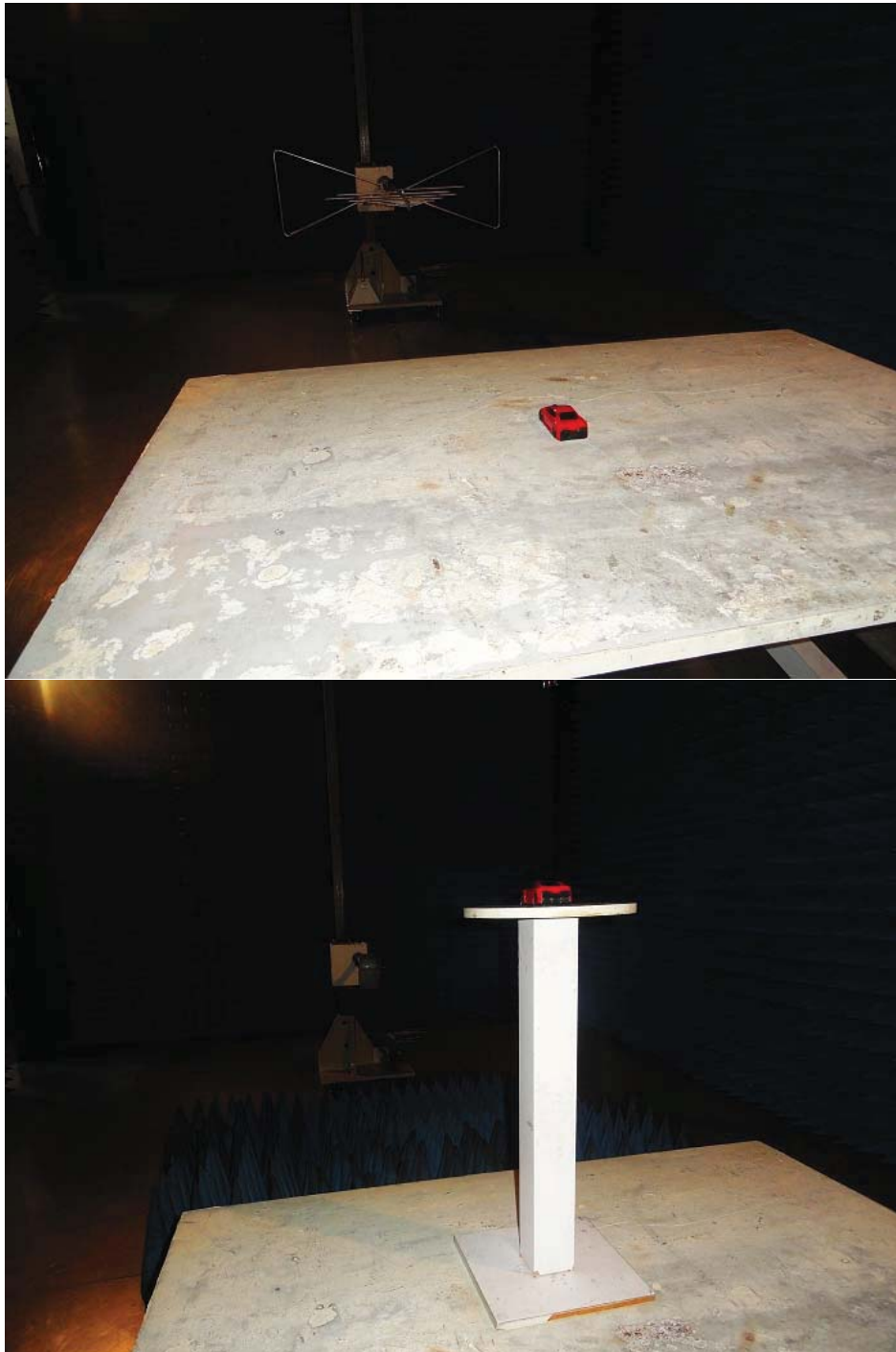


## 11.0 Photo of testing

11.1 Conducted test View--

N/A

11.2 Radiated emission test view



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### 11.3 Photographs - EUT

Outside view



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Outside view



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Inside view



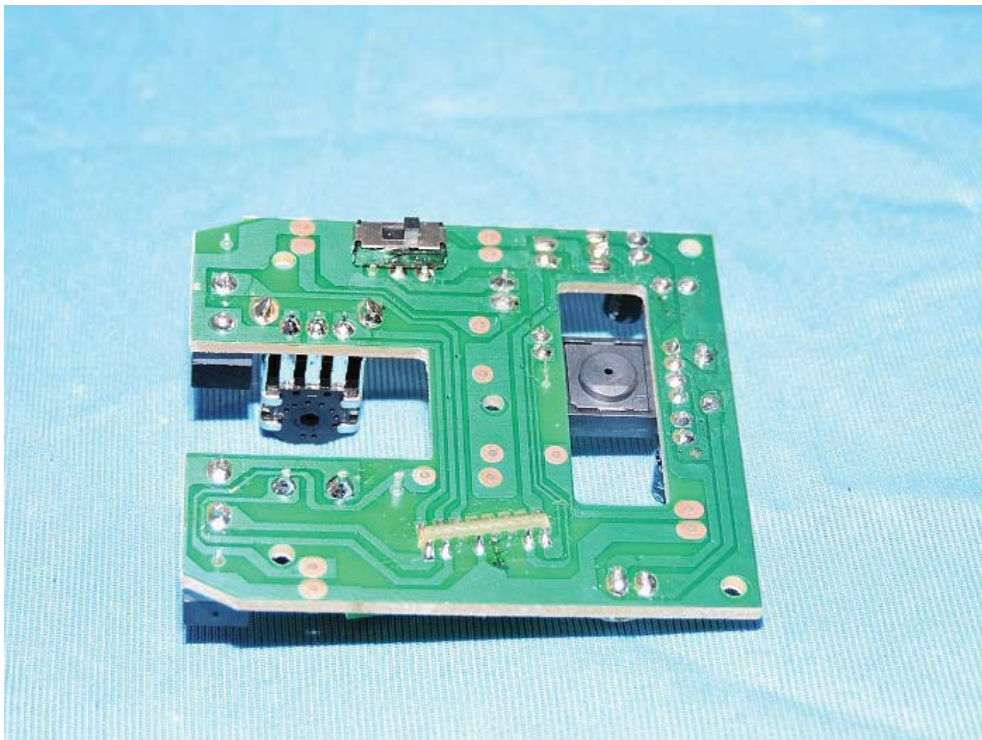
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Inside view



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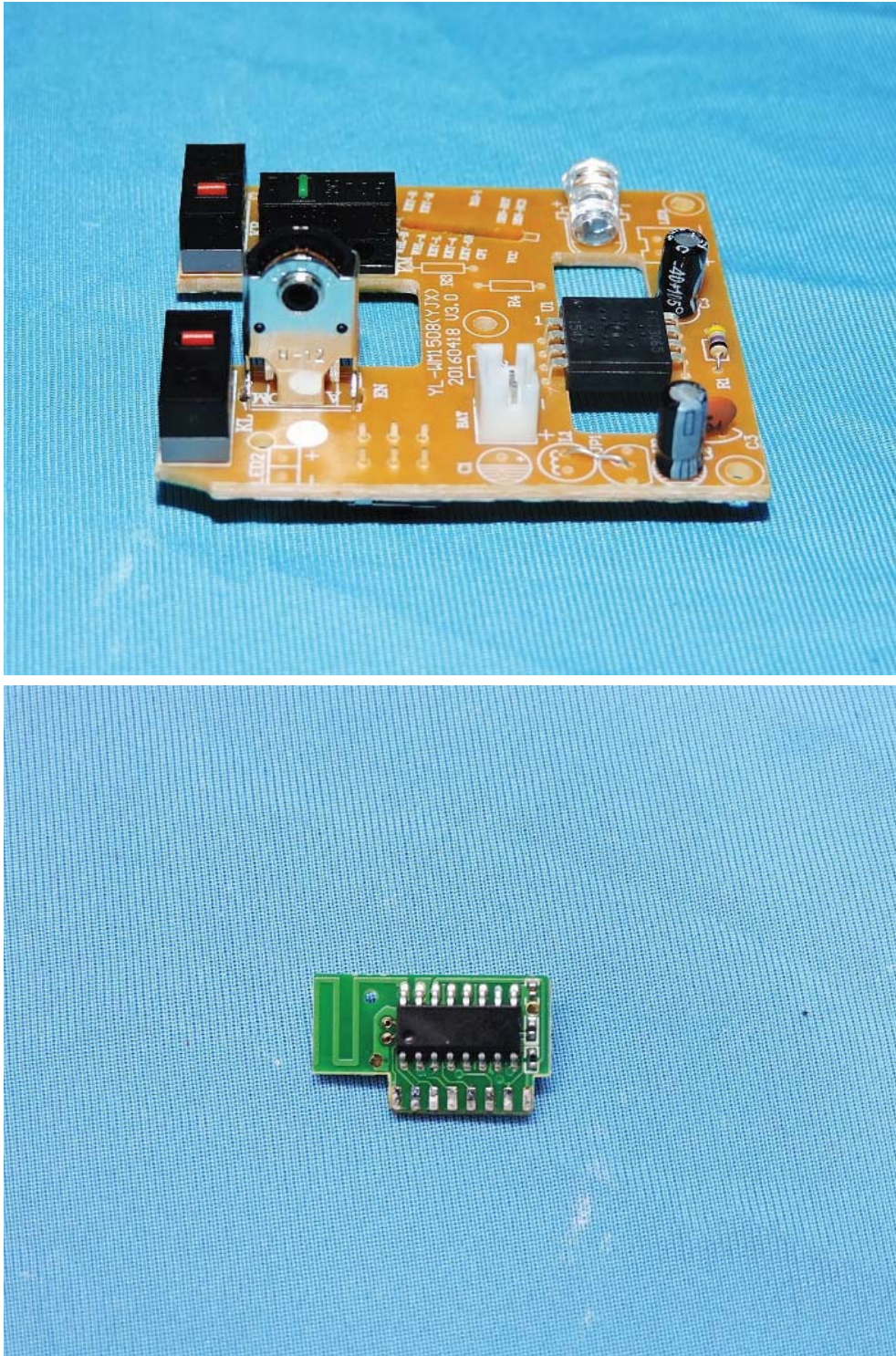
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Inside view



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Inside view



**--End of the report--**

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