

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

**Product Name:** 2.4GHz Wireless Mouse  
**Brand Name:** N/A  
**Model No.:** B003MR  
**Model Difference:** N/A  
**FCC ID:** P5A-CB0021  
**Report No.:** ER/2016/60010  
**Issue Date:** Jun. 24, 2016  
**FCC Rule Part:** §15.249  
**Prepared for:** ARESON Technology Corp.  
11F, No.646, Sec.5, Chongxin Rd., SanChong  
Dist., New Taipei City 241,Taiwan(R.O.C.)  
**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No.134, Wu Kung Road, New Taipei Industrial  
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24803



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## VERIFICATION OF COMPLIANCE

**Applicant:** ARESON Technology Corp.  
11F, No.646, Sec.5, Chongxin Rd., SanChong Dist., New Taipei  
City 241,Taiwan(R.O.C.)

**Product Name:** 2.4GHz Wireless Mouse

**Brand Name:** N/A

**Model No.:** B003MR

**Model Difference:** N/A

**FCC ID:** P5A-CB0021

**File Number:** ER/2016/60010

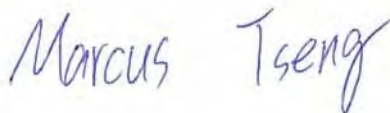
**Date of test:** Jun. 03 2016 ~Jun. 07, 2016

**Date of EUT Received:** Jun. 03 2016

**We hereby certify that:**

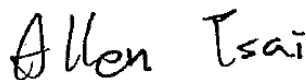
The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

**Test By:****Date**

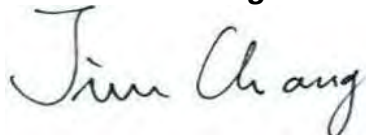
Jun. 24, 2016

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**Marcus Tseng / Sr.Engineer****Prepared By:****Date**

Jun. 24, 2016

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**Allen Tsai / Engineer****Approved By:****Date**

Jun. 24, 2016

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**Jim Chang / Asst. Manager**

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## Revision History

| Report Number | Revision | Description                  | Issue Date    |
|---------------|----------|------------------------------|---------------|
| ER/2016/60010 | Rev.00   | Initial creation of document | Jun. 24, 2016 |
|               |          |                              |               |
|               |          |                              |               |
|               |          |                              |               |

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## 1 GENERAL INFORMATION

### 1.1 Product Description

General:

|                              |                               |
|------------------------------|-------------------------------|
| Product Name:                | 2.4GHz Wireless Mouse         |
| Brand Name:                  | N/A                           |
| Model No.:                   | B003MR                        |
| Model Difference:            | N/A                           |
| Product SW/HW version:       | 0/0                           |
| Radio SW/HW version:         | N/A / NV                      |
| Test SW Version:             | N/A                           |
| RF power setting in TEST SW: | N/A                           |
| Power Supply:                | 3Vdc from 1.5Vdc AA Battery*2 |
| Antenna Designation:         | PCB Antenna Gain: 0.01 dBi    |

### 2.4GHz

|                      |                    |
|----------------------|--------------------|
| Transmit Power       | 88.23dBuV/m (Peak) |
| Operation Frequency: | 2405 ~ 2477MHz     |
| Channel number:      | 16 channels        |
| Channel space:       | 1MHz               |
| Modulation Type:     | GFSK               |

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## 1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.249

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.

## 1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 509634

Canada Registration Number: 4260A-5.

## 1.4 Special Accessories

There are no special accessories used while test was conducted.

## 1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

### 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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## 2.5 Limitation

### (1) Conducted Emission

Conducted Emission Limits is as following.

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-Peak             | Average |
| 0.15 – 0.5      | 66 - 56                | 56 - 46 |
| 0.5 – 5         | 56                     | 46      |
| 5 - 30          | 60                     | 50      |

### (2) Radiated Emission

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

| Frequency (MHz)  | Field strength of Fundamental | Field strength of Harmonics | Distance (m) |
|------------------|-------------------------------|-----------------------------|--------------|
| 902 – 928        | 50 mV/m<br>(94dBuV/m)         | 500 uV/m<br>(54dBuV/m)      | 3            |
| 2400 – 2483.5    | 50 mV/m<br>(94dBuV/m)         | 500 uV/m<br>(54dBuV/m)      | 3            |
| 5725 – 5875      | 50 mV/m<br>(94dBuV/m)         | 500 uV/m<br>(54dBuV/m)      | 3            |
| 24.0 – 24.25 GHz | 250 mV/m<br>(107.95dBuV/m)    | 2500 uV/m<br>(67.95dBuV/m)  | 3            |

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### (3) Radiated Emission

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits as below, whichever is the lesser attenuation.

| Frequency (MHz) | Field strength $\mu\text{V/m}$ | Distance (m) | Field strength at 3m dB $\mu\text{V/m}$ |
|-----------------|--------------------------------|--------------|-----------------------------------------|
| 1.705-30        | 30                             | 30           | 69.54                                   |
| 30-88           | 100                            | 3            | 40                                      |
| 88-216          | 150                            | 3            | 43.5                                    |
| 216-960         | 200                            | 3            | 46                                      |
| Above 960       | 500                            | 3            | 54                                      |

### (4) Radiated Emission

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

- Re- mark:
1. Emission level in dB $\mu\text{V/m}$ =20 log ( $\mu\text{V/m}$ )
  2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
  3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of  $\xi$  15.205 and RSS-Gen  $\xi$  8.10
  4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of  $\xi$ 15.205 and RSS-Gen  $\xi$  8.10, then the general radiated emission limits in  $\xi$  15.209 and RSS-Gen  $\xi$  8.9 apply.

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## 2.6 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) Configuration



Table 2-1 Equipment Used in Tested System

| Item | Equipment                     | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|-------------------------------|-----------|----------------|------------|------------|------------|
| 1.   | 2.4GHz Wireless Test Software | N/A       | N/A            | N/A        | N/A        | N/A        |

## 3 SUMMARY OF TEST RESULTS

| FCC Rules        | Description Of Test              | Result    |
|------------------|----------------------------------|-----------|
| §15.207(a)       | AC Power Line Conducted Emission | Compliant |
| §15.249(a)(d)(e) | Radiated Emission                | Compliant |
| §15.215(c)       | 20dB bandwidth Measurement       | Compliant |

## 4 DESCRIPTION OF TEST MODES

### 4.1 Operated in 2405 ~ 2477MHz Band

16 channels are provided.

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 1       | 2405MHz   | 5       | 2421MHz   | 9       | 2440MHz   | 13      | 2455MHz   |
| 2       | 2407MHz   | 6       | 2428MHz   | 10      | 2441MHz   | 14      | 2467MHz   |
| 3       | 2410MHz   | 7       | 2435MHz   | 11      | 2442MHz   | 15      | 2468MHz   |
| 4       | 2414MHz   | 8       | 2437MHz   | 12      | 2449MHz   | 16      | 2477MHz   |

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## 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

### RADIATED EMISSION TEST:

| RADIATED EMISSION TEST (BELOW 1 GHz) |                   |                |            |                  |              |
|--------------------------------------|-------------------|----------------|------------|------------------|--------------|
| MODE                                 | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 2.4G                                 | 1 to 16           | 2,11,16        | FSK        | 2                | MAIN         |
| RADIATED EMISSION TEST (ABOVE 1 GHz) |                   |                |            |                  |              |
| MODE                                 | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 2.4G                                 | 1 to 16           | 2,11,16        | FSK        | 2                | MAIN         |

#### Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE Transmitter for channel Low, Mid and High, the worst case H position was reported.

### ANTENNA PORT CONDUCTED MEASUREMENT:

| CONDUCTED TEST |                   |                |            |                  |              |
|----------------|-------------------|----------------|------------|------------------|--------------|
| MODE           | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 2.4G           | 1 to 16           | 2,11,16        | FSK        | 2                | MAIN         |

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                                | Uncertainty                 |
|-------------------------------------------|-----------------------------|
| AC Power Line Conducted Emission          | +/- 2.586 dB                |
| 20dB & 99% Bandwidth                      | +/- 51.33 Hz                |
| 100 kHz Bandwidth Of Frequency Band Edges | +/- 0.84 dB                 |
| Temperature                               | +/- 0.65 °C                 |
| Humidity                                  | +/- 4.6 %                   |
| DC / AC Power Source                      | DC= +/- 0.13%, AC= +/- 0.2% |

Radiated Spurious Emission:

|                                                              |                            |
|--------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Vertical</b> ) | 9kHz – 30MHz: +/- 2.87 dB  |
|                                                              | 30MHz - 180MHz: +/- 3.37dB |
|                                                              | 180MHz -417MHz: +/- 3.19dB |
|                                                              | 0.417GHz-1GHz: +/- 3.19dB  |
|                                                              | 1GHz - 18GHz: +/- 4.04dB   |
|                                                              | 18GHz - 40GHz: +/- 4.04dB  |

|                                                                |                            |
|----------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Horizontal</b> ) | 9kHz – 30MHz: +/- 2.87 dB  |
|                                                                | 30MHz - 167MHz: +/- 4.22dB |
|                                                                | 167MHz -500MHz: +/- 3.44dB |
|                                                                | 0.5GHz-1GHz: +/- 3.39dB    |
|                                                                | 1GHz - 18GHz: +/- 4.08dB   |
|                                                                | 18GHz - 40GHz: +/- 4.08dB  |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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## 6 CONDUCTED EMISSION TEST

### 6.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

| Frequency range<br>MHz                                                                                                                                                       | Limits<br>dB(μV) |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|
|                                                                                                                                                                              | Quasi-peak       | Average  |
| 0.15 to 0.50                                                                                                                                                                 | 66 to 56         | 56 to 46 |
| 0.50 to 5                                                                                                                                                                    | 56               | 46       |
| 5 to 30                                                                                                                                                                      | 60               | 50       |
| Note<br>1.The lower limit shall apply at the transition frequencies<br>2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. |                  |          |

### 6.2 Measurement Equipment Used:

| Conducted Emission Test Site |             |                             |                  |              |            |
|------------------------------|-------------|-----------------------------|------------------|--------------|------------|
| EQUIPMENT<br>TYPE            | MFR         | MODEL<br>NUMBER             | SERIAL<br>NUMBER | LAST<br>CAL. | CAL DUE.   |
| EMI Test Receiver            | R&S         | ESC17                       | 100760           | 05/10/2016   | 05/09/2017 |
| LISN                         | SCHWARZBECK | NSLK 8127                   | 8127-649         | 05/16/2016   | 05/15/2017 |
| LISN                         | MESS TEC    | FCC-LISN-50/2<br>50-25-2-01 | 4034             | 05/16/2016   | 05/15/2017 |
| Coaxial Cables               | N/A         | WK CE Cable                 | N/A              | 11/26/2015   | 11/25/2016 |

### 6.3 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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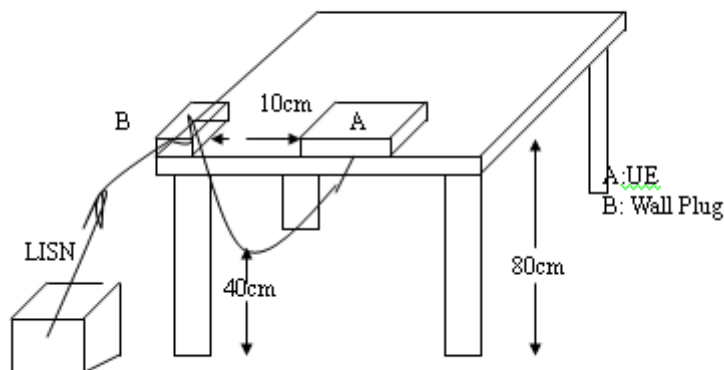
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## 6.4 Test SET-UP (Block Diagram of Configuration)



## 6.5 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

## 6.6 Measurement Result:

N/A, This device is powered by battery.

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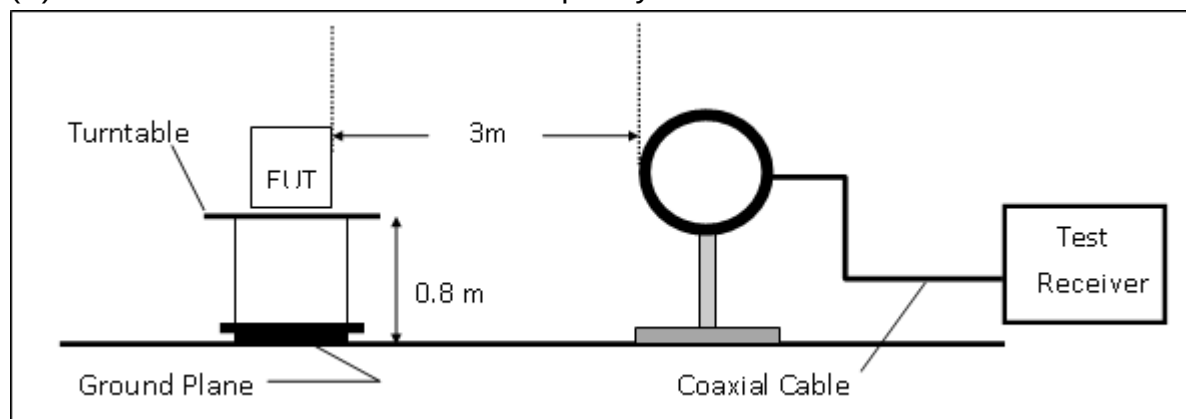
## 7 RADIATED EMISSION TEST

### 7.1. Measurement Procedure

1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

### 7.2. Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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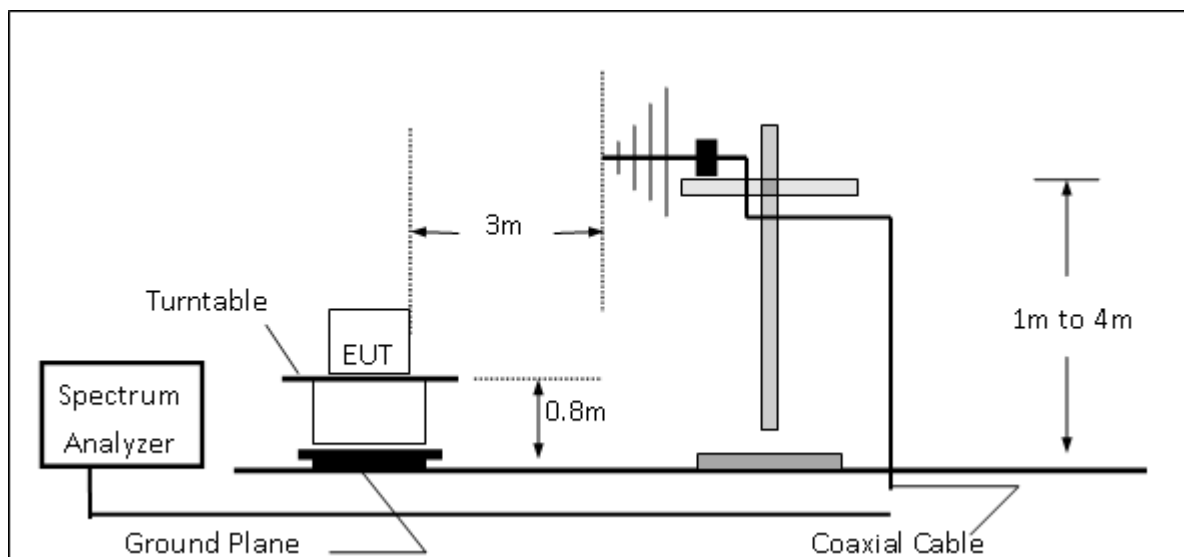
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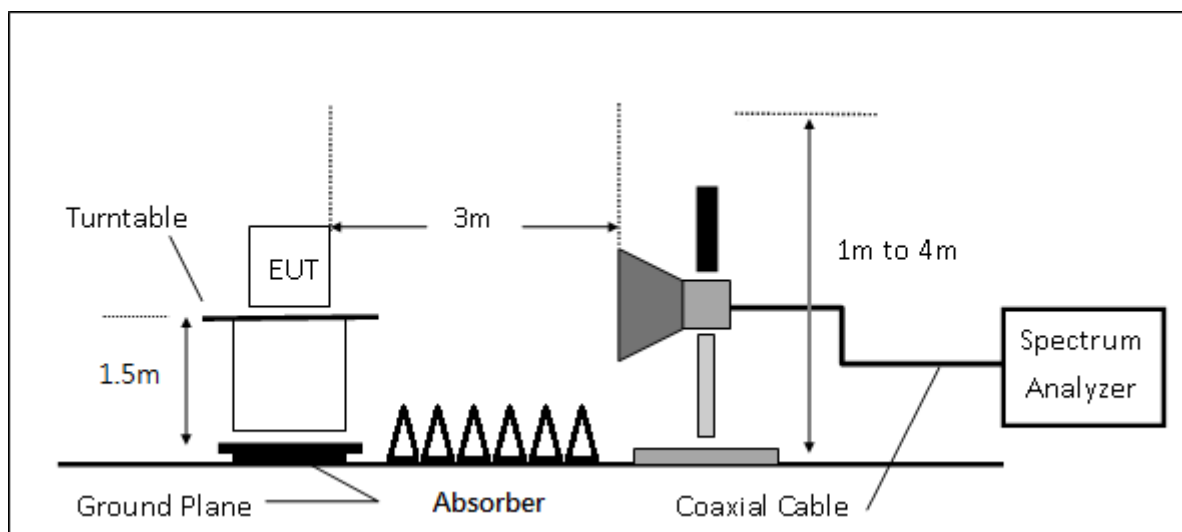
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### (B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



### (C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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### 7.3. Measurement Equipment Used:

| 966 Chamber       |                       |              |               |            |            |
|-------------------|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE    | MFR                   | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EMI Test Receiver | R&S                   | ESCI7        | 100760        | 05/10/2016 | 05/09/2017 |
| Spectrum Analyzer | Agilent               | E4446A       | MY51100003    | 01/29/2016 | 01/28/2017 |
| Loop Antenna      | ETS.LINDGREN          | 6502         | 148045        | 09/07/2015 | 09/06/2016 |
| Bilog Antenna     | SCHWAZBECK            | VULB9168     | 378           | 12/14/2015 | 12/13/2016 |
| Horn Antenna      | Schwarzbeck           | BBHA9120D    | 1441          | 08/10/2015 | 08/09/2016 |
| Pre-Amplifier     | Agilent               | 8447D        | 2944A07676    | 01/02/2016 | 01/01/2017 |
| Pre-Amplifier     | EMC Instruments Corp. | EMC0126530   | 980038        | 01/02/2016 | 01/01/2017 |
| Turn Table        | HD                    | DT420        | N/A           | N.C.R      | N.C.R      |
| Antenna Tower     | ChamPro               | AM-BS-4500-B | 060776-ABS    | N.C.R      | N.C.R      |
| Controller        | ChamPro               | EM1000       | 60776         | N.C.R      | N.C.R      |
| Low Loss Cable    | Huber Suhner          | 966_RX       | 9             | 01/02/2016 | 01/01/2017 |
| 3m Site NSA       | SGS                   | 966 chamber  | N/A           | 07/02/2015 | 07/01/2016 |
| Low Loss Cable    | Huber Suhner          | 966 TX       | 1             | 01/02/2016 | 01/01/2017 |
| Horn Antenna      | Schwarzbeck           | BBHA9170     | 184           | 12/12/2015 | 12/11/2016 |
| Pre-Amplifier     | EMC Instruments Corp. | EMC184045    | 980135        | 01/02/2016 | 01/01/2017 |

Note: N.C.R refers to Not Calibrated Required

### 7.4. Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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## 7.5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

|                           |                                            |
|---------------------------|--------------------------------------------|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |
| AF = Antenna Factor       |                                            |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

**Note :** “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

## 7.6. Measurement Result

### Radiated Spurious Emission Measurement Result (MAIN)

Operation Mode : 2.4G Test Date : 06/06/2016  
Fundamental Frequency : 2405 MHz Temp. / Humi. : 22 deg\_C / 61 RH  
Operation Band : MAIN LOW Test Engineer : Tin  
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq.   | Note    | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|-----------|--------|
| MHz     | F/H/E/S | QP/AV/PK     | dBμV/m               | dBμV/m      | dB     | dBuV/m    | dB     |
| 2404.63 | F       | Average      | 51.11                | 52.87       | -1.76  | 94.00     | -42.89 |
| 2404.63 | F       | Peak         | 80.13                | 81.90       | -1.76  | 114.00    | -33.87 |

Operation Mode : 2.4G Test Date : 06/06/2016  
Fundamental Frequency : 2405 MHz Temp. / Humi. : 22 deg\_C / 61 RH  
Operation Band : MAIN LOW Test Engineer : Tin  
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq.   | Note    | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|-----------|--------|
| MHz     | F/H/E/S | QP/AV/PK     | dBμV/m               | dBμV/m      | dB     | dBuV/m    | dB     |
| 2404.65 | F       | Average      | 54.27                | 56.03       | -1.76  | 94.00     | -39.73 |
| 2404.65 | F       | Peak         | 88.23                | 89.99       | -1.76  | 114.00    | -25.77 |

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Operation Mode : 2.4G      Test Date : 06/06/2016  
 Fundamental Frequency : 2442 MHz      Temp. / Humi. : 22 deg\_C / 61 RH  
 Operation Band : MAIN MID      Test Engineer : Tin  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : VERTICAL

| Freq.   | Note    | Decetor  | Actual        | Spectrum | Factor | Limit  | Margin |
|---------|---------|----------|---------------|----------|--------|--------|--------|
|         |         | Mode     | Reading Level | FS       |        | @3m    |        |
| MHz     | F/H/E/S | QP/AV/PK | dBμV/m        | dBμV/m   | dB     | dBuV/m | dB     |
| 2441.58 | F       | Average  | 53.88         | 55.55    | -1.67  | 94.00  | -40.12 |
| 2441.58 | F       | Peak     | 72.37         | 74.04    | -1.67  | 114.00 | -41.63 |

Operation Mode : 2.4G      Test Date : 06/06/2016  
 Fundamental Frequency : 2442 MHz      Temp. / Humi. : 22 deg\_C / 61 RH  
 Operation Band : MAIN MID      Test Engineer : Tin  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL

| Freq.   | Note    | Decetor  | Actual        | Spectrum | Factor | Limit  | Margin |
|---------|---------|----------|---------------|----------|--------|--------|--------|
|         |         | Mode     | Reading Level | FS       |        | @3m    |        |
| MHz     | F/H/E/S | QP/AV/PK | dBμV/m        | dBμV/m   | dB     | dBuV/m | dB     |
| 2442.01 | F       | Average  | 53.46         | 55.13    | -1.67  | 94.00  | -40.54 |
| 2442.01 | F       | Peak     | 87.32         | 88.99    | -1.67  | 114.00 | -26.68 |

Operation Mode : 2.4G      Test Date : 06/06/2016  
 Fundamental Frequency : 2477 MHz      Temp. / Humi. : 22 deg\_C / 61 RH  
 Operation Band : MAIN HIGH      Test Engineer : Tin  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : VERTICAL

| Freq.   | Note    | Decetor  | Actual        | Spectrum | Factor | Limit  | Margin |
|---------|---------|----------|---------------|----------|--------|--------|--------|
|         |         | Mode     | Reading Level | FS       |        | @3m    |        |
| MHz     | F/H/E/S | QP/AV/PK | dBμV/m        | dBμV/m   | dB     | dBuV/m | dB     |
| 2477.47 | F       | Average  | 52.98         | 54.60    | -1.62  | 94.00  | -41.02 |
| 2477.47 | F       | Peak     | 75.62         | 77.24    | -1.62  | 114.00 | -38.38 |

Operation Mode : 2.4G      Test Date : 06/06/2016  
 Fundamental Frequency : 2477 MHz      Temp. / Humi. : 22 deg\_C / 61 RH  
 Operation Band : MAIN HIGH      Test Engineer : Tin  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL

| Freq.   | Note    | Decetor  | Actual        | Spectrum | Factor | Limit  | Margin |
|---------|---------|----------|---------------|----------|--------|--------|--------|
|         |         | Mode     | Reading Level | FS       |        | @3m    |        |
| MHz     | F/H/E/S | QP/AV/PK | dBμV/m        | dBμV/m   | dB     | dBuV/m | dB     |
| 2476.58 | F       | Average  | 57.59         | 59.21    | -1.62  | 94.00  | -36.41 |
| 2476.58 | F       | Peak     | 87.41         | 89.03    | -1.62  | 114.00 | -26.59 |

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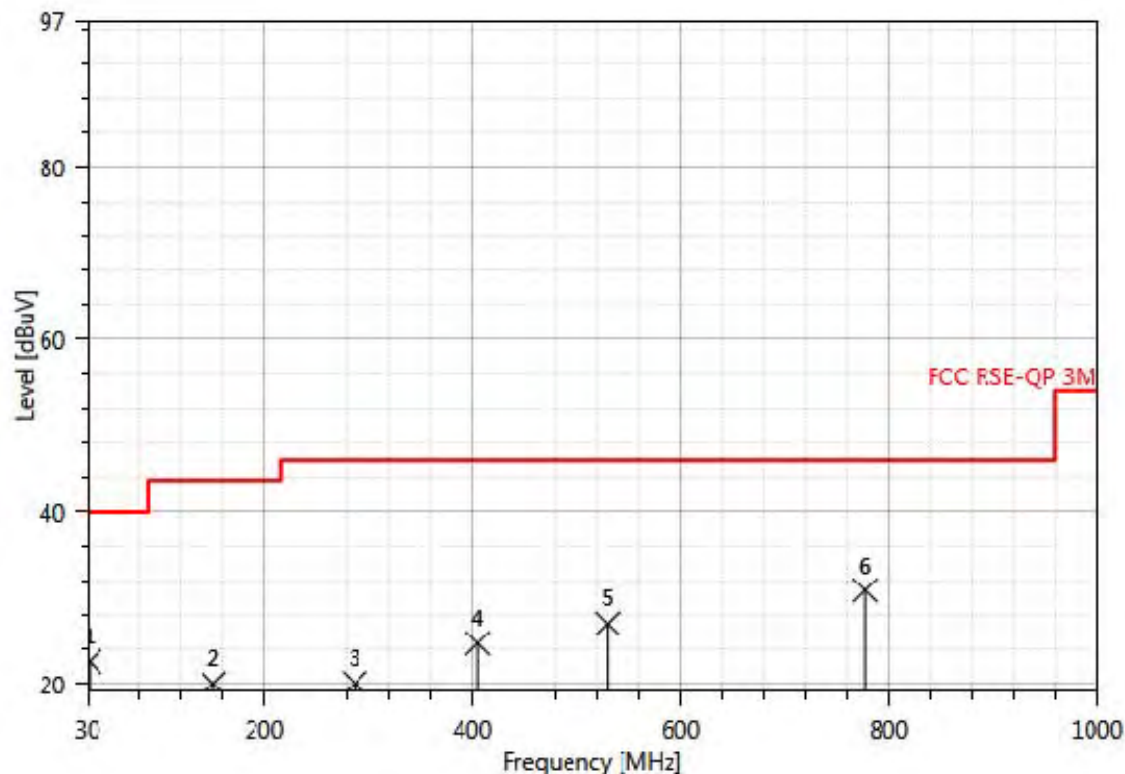
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## Radiated Spurious Emission Measurement Result

|                         |           |                            |                  |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode :        | 2.4G      | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2405 MHz  | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH LOW | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane  | Measurement Antenna Pol. : | VERTICAL         |



| Freq.  | Note    | Decetor  | Actual        | Spectrum | Factor | Limit  | Margin |
|--------|---------|----------|---------------|----------|--------|--------|--------|
| MHz    | F/H/E/S | Mode     | Reading Level | FS       |        | @3m    |        |
|        |         | QP/AV/PK | dBμV/m        | dBμV/m   | dB     | dBuV/m | dB     |
| 31.94  | S       | Peak     | 22.60         | 31.71    | -9.11  | 40.00  | -17.40 |
| 151.25 | S       | Peak     | 20.04         | 27.73    | -7.70  | 43.50  | -23.46 |
| 287.05 | S       | Peak     | 20.08         | 26.27    | -6.19  | 46.00  | -25.92 |
| 405.39 | S       | Peak     | 24.70         | 28.40    | -3.70  | 46.00  | -21.30 |
| 529.55 | S       | Peak     | 26.99         | 28.24    | -1.25  | 46.00  | -19.01 |
| 776.90 | S       | Peak     | 30.87         | 28.32    | 2.54   | 46.00  | -15.13 |

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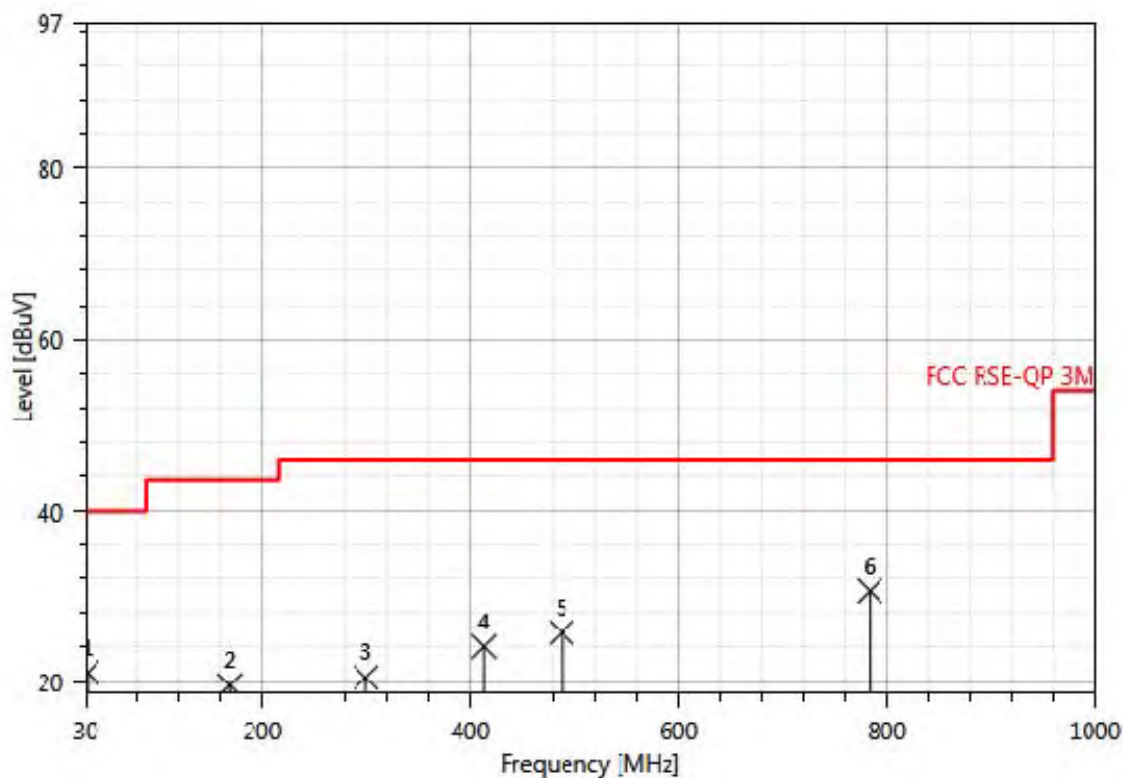
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|                         |           |                            |                  |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode :        | 2.4G      | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2405 MHz  | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH LOW | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane  | Measurement Antenna Pol. : | HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | Decetor<br>Mode<br>QP/AV/PK | Actual<br>Reading Level<br>dBμV/m | Spectrum<br>FS<br>dBμV/m | Factor<br>dB | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|------------------------|--------------|
| 31.94        | S               | Peak                        | 21.10                             | 30.21                    | -9.11        | 40.00                  | -18.90       |
| 168.71       | S               | Peak                        | 19.62                             | 27.15                    | -7.53        | 43.50                  | -23.88       |
| 299.66       | S               | Peak                        | 20.53                             | 26.46                    | -5.93        | 46.00                  | -25.47       |
| 413.15       | S               | Peak                        | 24.12                             | 27.51                    | -3.39        | 46.00                  | -21.88       |
| 487.84       | S               | Peak                        | 25.77                             | 28.11                    | -2.34        | 46.00                  | -20.23       |
| 783.69       | S               | Peak                        | 30.58                             | 27.83                    | 2.75         | 46.00                  | -15.42       |

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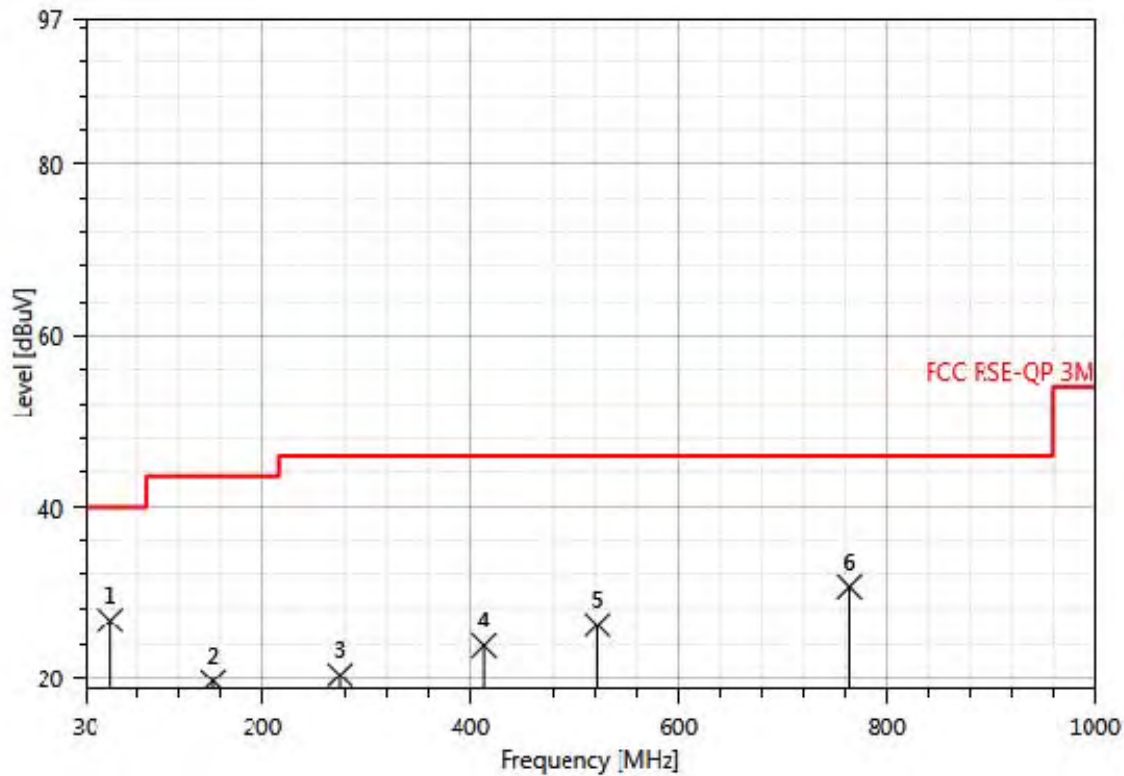
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|                         |           |                            |                  |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode :        | 2.4G      | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2442 MHz  | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH MID | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane  | Measurement Antenna Pol. : | VERTICAL         |



| Freq.<br>MHz | Note<br>F/H/E/S | Decetor<br>Mode<br>QP/AV/PK | Actual<br>Reading Level<br>dBμV/m | Spectrum<br>FS<br>dBμV/m | Factor<br>dB | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|------------------------|--------------|
| 54.25        | S               | Peak                        | 26.74                             | 34.56                    | -7.82        | 40.00                  | -13.26       |
| 153.19       | S               | Peak                        | 19.63                             | 27.34                    | -7.70        | 43.50                  | -23.87       |
| 274.44       | S               | Peak                        | 20.36                             | 27.04                    | -6.67        | 46.00                  | -25.64       |
| 413.15       | S               | Peak                        | 23.78                             | 27.17                    | -3.39        | 46.00                  | -22.22       |
| 521.79       | S               | Peak                        | 26.21                             | 27.81                    | -1.60        | 46.00                  | -19.79       |
| 764.29       | S               | Peak                        | 30.60                             | 27.63                    | 2.97         | 46.00                  | -15.40       |

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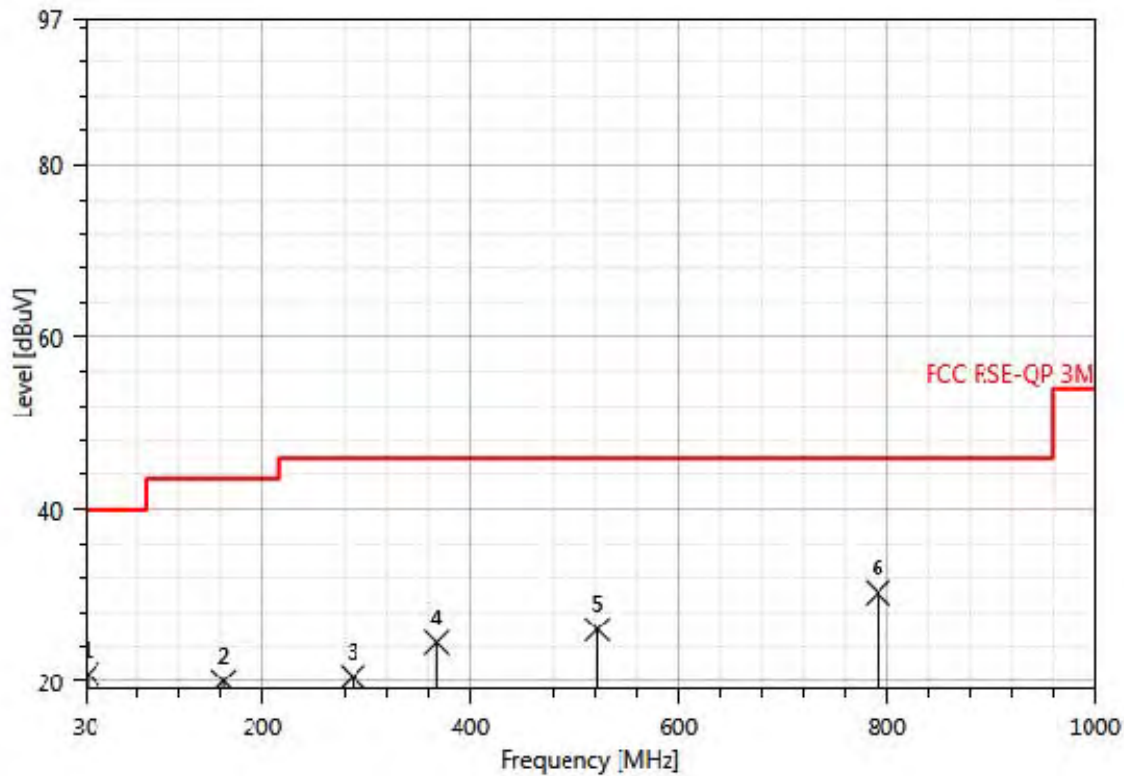
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|                         |           |                            |                  |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode :        | 2.4G      | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2442 MHz  | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH MID | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane  | Measurement Antenna Pol. : | HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | Decetor<br>Mode<br>QP/AV/PK | Actual<br>Reading Level<br>dBμV/m | Spectrum<br>FS<br>dBμV/m | Factor<br>dB | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|------------------------|--------------|
| 31.94        | S               | Peak                        | 20.84                             | 29.95                    | -9.11        | 40.00                  | -19.16       |
| 162.89       | S               | Peak                        | 20.02                             | 27.50                    | -7.48        | 43.50                  | -23.48       |
| 287.05       | S               | Peak                        | 20.53                             | 26.72                    | -6.19        | 46.00                  | -25.47       |
| 367.56       | S               | Peak                        | 24.51                             | 29.23                    | -4.73        | 46.00                  | -21.49       |
| 521.79       | S               | Peak                        | 26.03                             | 27.64                    | -1.60        | 46.00                  | -19.97       |
| 791.45       | S               | Peak                        | 30.26                             | 27.36                    | 2.89         | 46.00                  | -15.74       |

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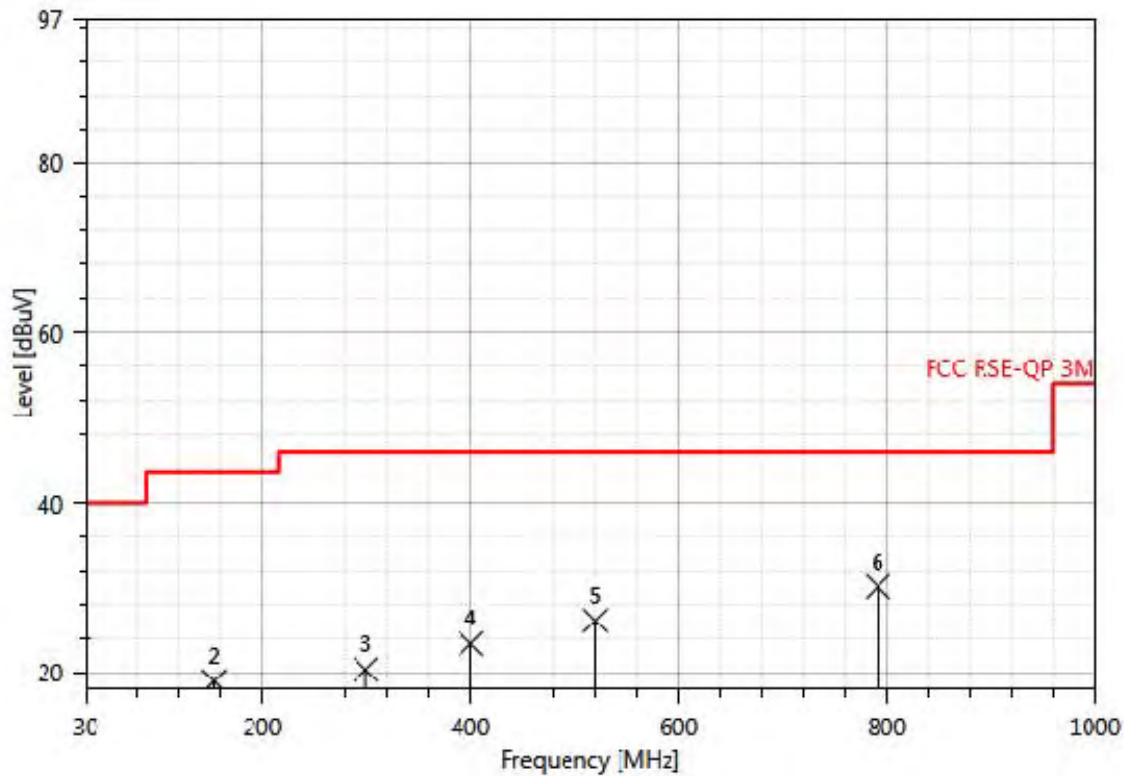
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|-------------------------|------------|----------------------------|------------------|
| Operation Mode :        | 2.4G       | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2447 MHz   | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH HIGH | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane   | Measurement Antenna Pol. : | VERTICAL         |



| Freq.<br>MHz | Note<br>F/H/E/S | Decetor<br>Mode<br>QP/AV/PK | Actual<br>Reading Level<br>dBμV/m | Spectrum<br>FS<br>dBμV/m | Factor<br>dB | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|------------------------|--------------|
| 30.00        | S               | Peak                        | 21.76                             | 30.95                    | -9.19        | 40.00                  | -18.24       |
| 154.16       | S               | Peak                        | 18.96                             | 26.66                    | -7.70        | 43.50                  | -24.54       |
| 299.66       | S               | Peak                        | 20.34                             | 26.27                    | -5.93        | 46.00                  | -25.66       |
| 400.54       | S               | Peak                        | 23.38                             | 27.32                    | -3.94        | 46.00                  | -22.62       |
| 519.85       | S               | Peak                        | 26.11                             | 27.73                    | -1.62        | 46.00                  | -19.89       |
| 791.45       | S               | Peak                        | 30.08                             | 27.18                    | 2.89         | 46.00                  | -15.92       |

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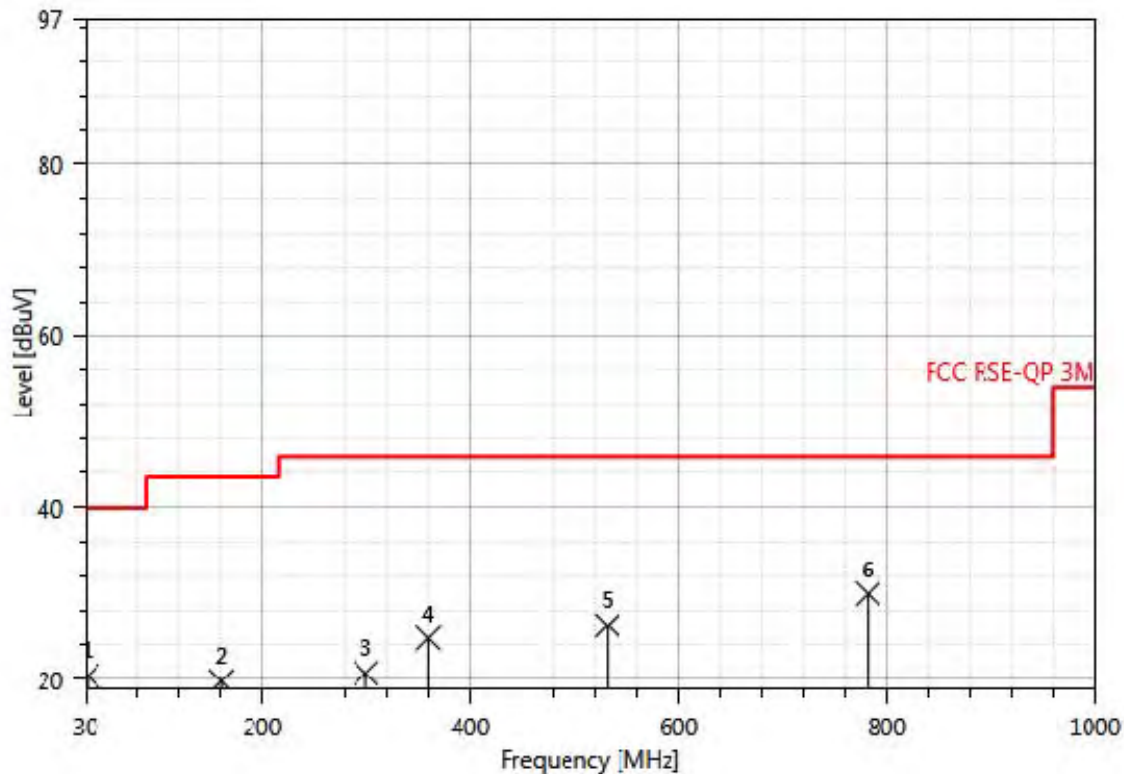
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| Operation Mode :        | 2.4G       | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2447 MHz   | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH HIGH | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane   | Measurement Antenna Pol. : | HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | Decetor<br>Mode<br>QP/AV/PK | Actual<br>Reading Level<br>dBμV/m | Spectrum<br>FS<br>dBμV/m | Factor<br>dB | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|------------------------|--------------|
| 31.94        | S               | Peak                        | 20.37                             | 29.48                    | -9.11        | 40.00                  | -19.63       |
| 160.95       | S               | Peak                        | 19.74                             | 27.18                    | -7.44        | 43.50                  | -23.76       |
| 299.66       | S               | Peak                        | 20.69                             | 26.62                    | -5.93        | 46.00                  | -25.31       |
| 359.80       | S               | Peak                        | 24.74                             | 29.54                    | -4.80        | 46.00                  | -21.26       |
| 531.49       | S               | Peak                        | 26.26                             | 27.82                    | -1.57        | 46.00                  | -19.74       |
| 781.75       | S               | Peak                        | 29.94                             | 27.18                    | 2.76         | 46.00                  | -16.06       |

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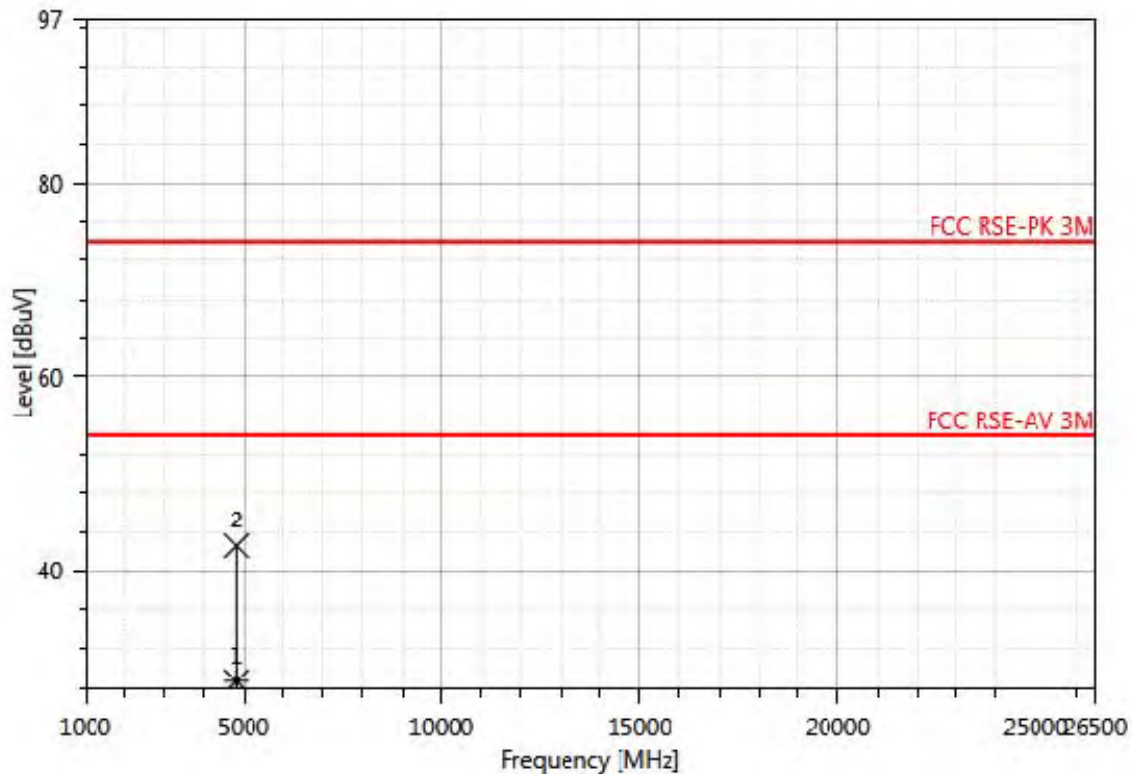
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|                         |           |                            |                  |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode :        | 2.4G      | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2405 MHz  | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH LOW | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane  | Measurement Antenna Pol. : | VERTICAL         |



| Freq.   | Note    | Decetor  | Actual        | Spectrum | Factor | Limit  | Margin |
|---------|---------|----------|---------------|----------|--------|--------|--------|
| MHz     | F/H/E/S | Mode     | Reading Level | FS       | dB     | @3m    | dB     |
|         |         | QP/AV/PK | dBμV/m        | dBμV/m   |        | dBuV/m |        |
| 4810.00 | H       | Average  | 28.59         | 23.66    | 4.93   | 54.00  | -25.41 |
| 4810.00 | H       | Peak     | 42.59         | 37.66    | 4.93   | 74.00  | -31.41 |

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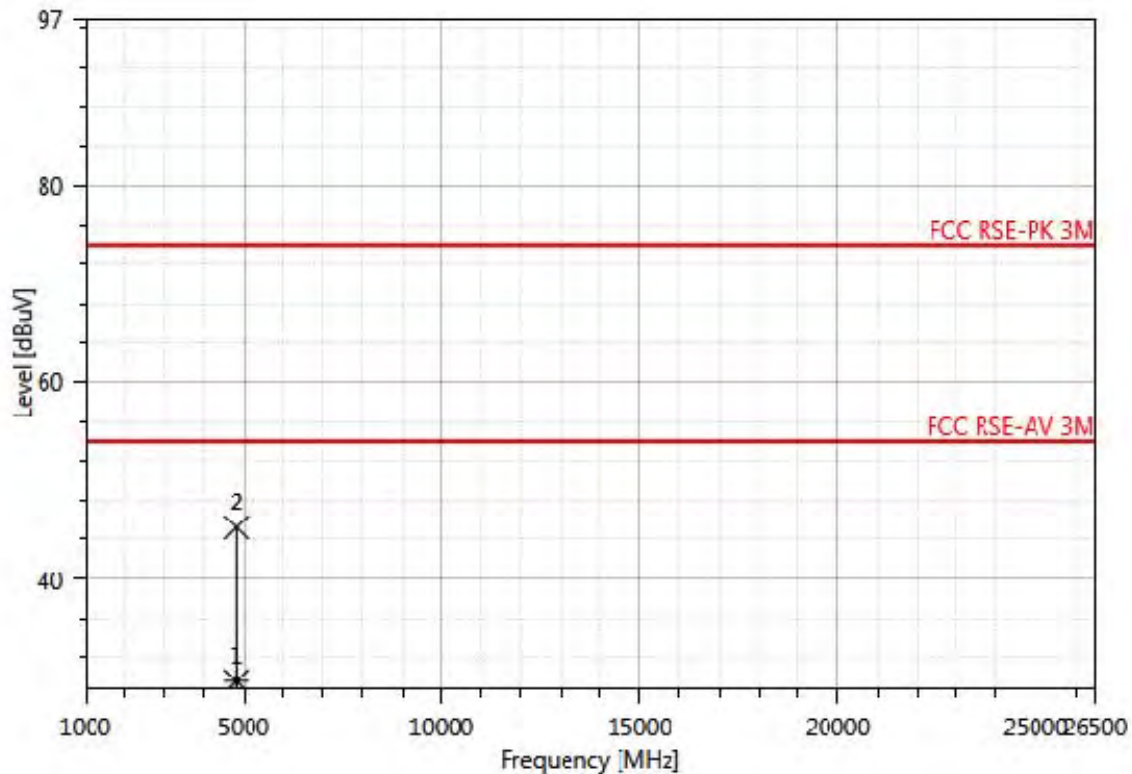
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|-------------------------|-----------|----------------------------|------------------|
| Operation Mode :        | 2.4G      | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2405 MHz  | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH LOW | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane  | Measurement Antenna Pol. : | HORIZONTAL       |



| Freq.   | Note    | Decetor  | Actual        | Spectrum | Factor | Limit  | Margin |
|---------|---------|----------|---------------|----------|--------|--------|--------|
| MHz     | F/H/E/S | Mode     | Reading Level | FS       | dB     | @3m    | dB     |
|         |         | QP/AV/PK | dBμV/m        | dBμV/m   |        | dBuV/m |        |
| 4810.00 | H       | Average  | 29.58         | 24.65    | 4.93   | 54.00  | -24.42 |
| 4810.00 | H       | Peak     | 45.23         | 40.30    | 4.93   | 74.00  | -28.77 |

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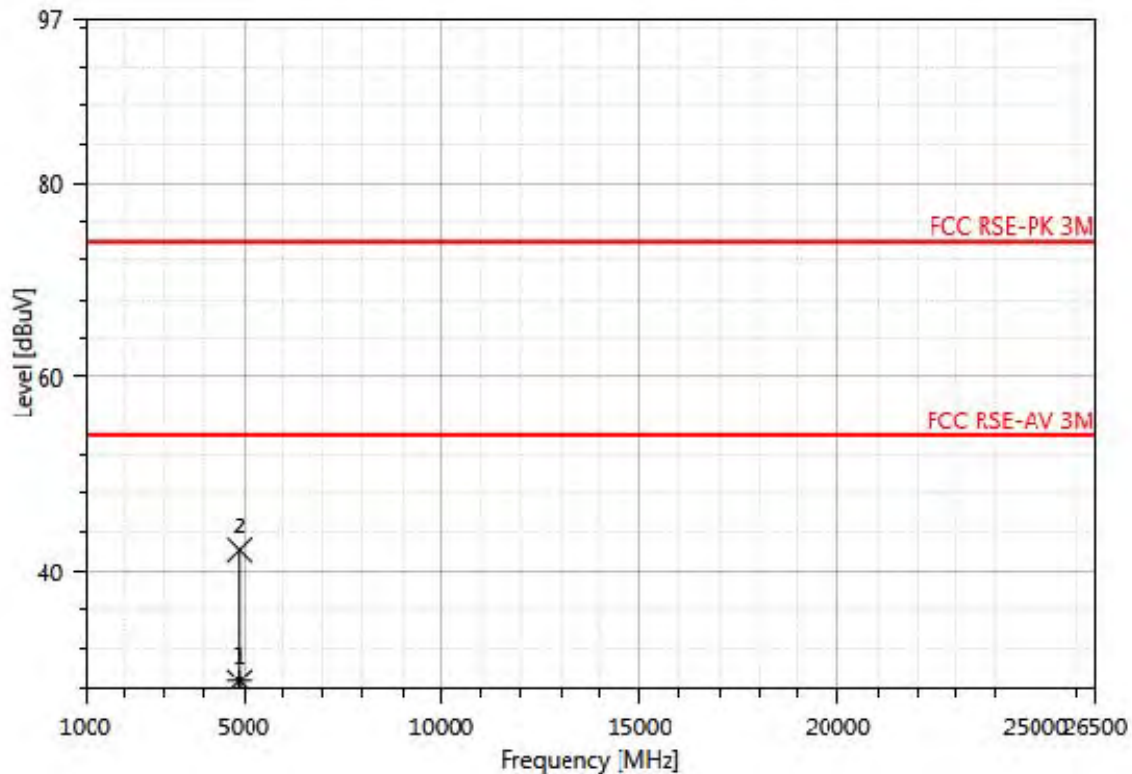
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|                         |           |                            |                  |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode :        | 2.4G      | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2442 MHz  | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH MID | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane  | Measurement Antenna Pol. : | VERTICAL         |



| Freq.<br>MHz | Note<br>F/H/E/S | Decetor<br>Mode<br>QP/AV/PK | Actual<br>Reading Level<br>dBμV/m | Spectrum<br>FS<br>dBμV/m | Factor<br>dB | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|------------------------|--------------|
| 4884.00      | H               | Average                     | 28.60                             | 23.41                    | 5.19         | 54.00                  | -25.40       |
| 4884.00      | H               | Peak                        | 42.17                             | 36.97                    | 5.19         | 74.00                  | -31.83       |

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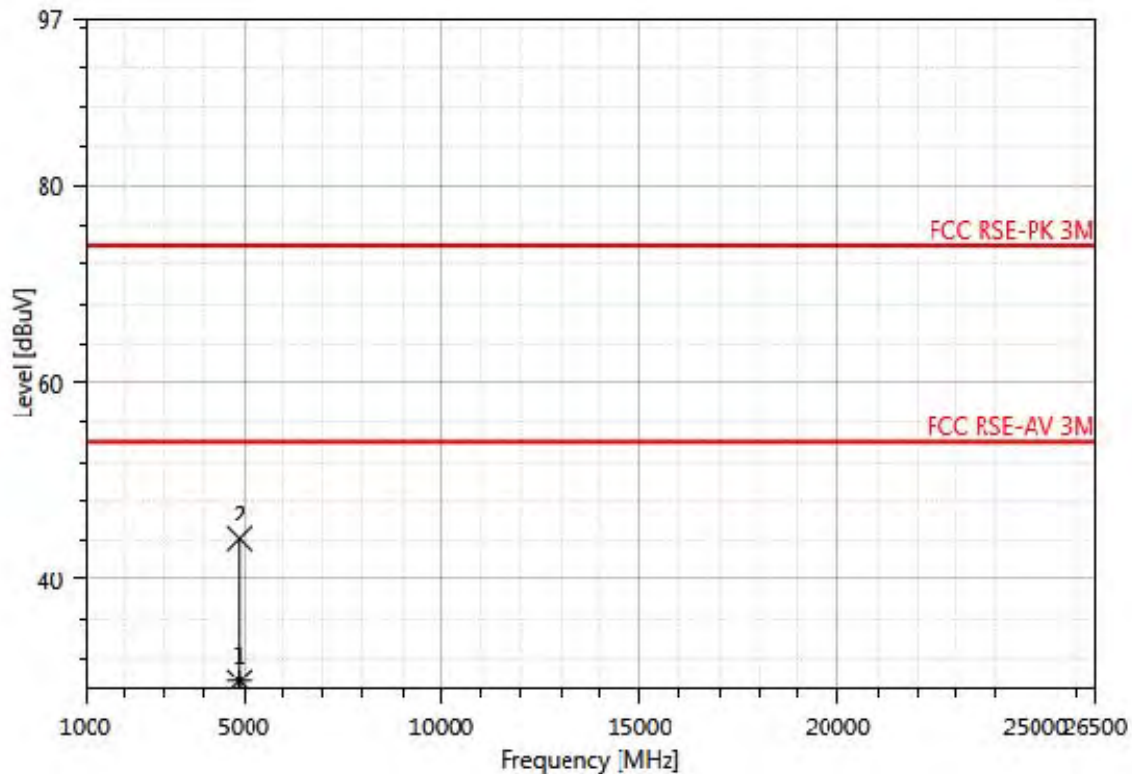
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|                         |           |                            |                  |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode :        | 2.4G      | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2442 MHz  | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH MID | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane  | Measurement Antenna Pol. : | HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | Decetor<br>Mode<br>QP/AV/PK | Actual<br>Reading Level<br>dBμV/m | Spectrum<br>FS<br>dBμV/m | Factor<br>dB | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|------------------------|--------------|
| 4884.00      | H               | Average                     | 29.66                             | 24.47                    | 5.19         | 54.00                  | -24.34       |
| 4884.00      | H               | Peak                        | 44.14                             | 38.95                    | 5.19         | 74.00                  | -29.86       |

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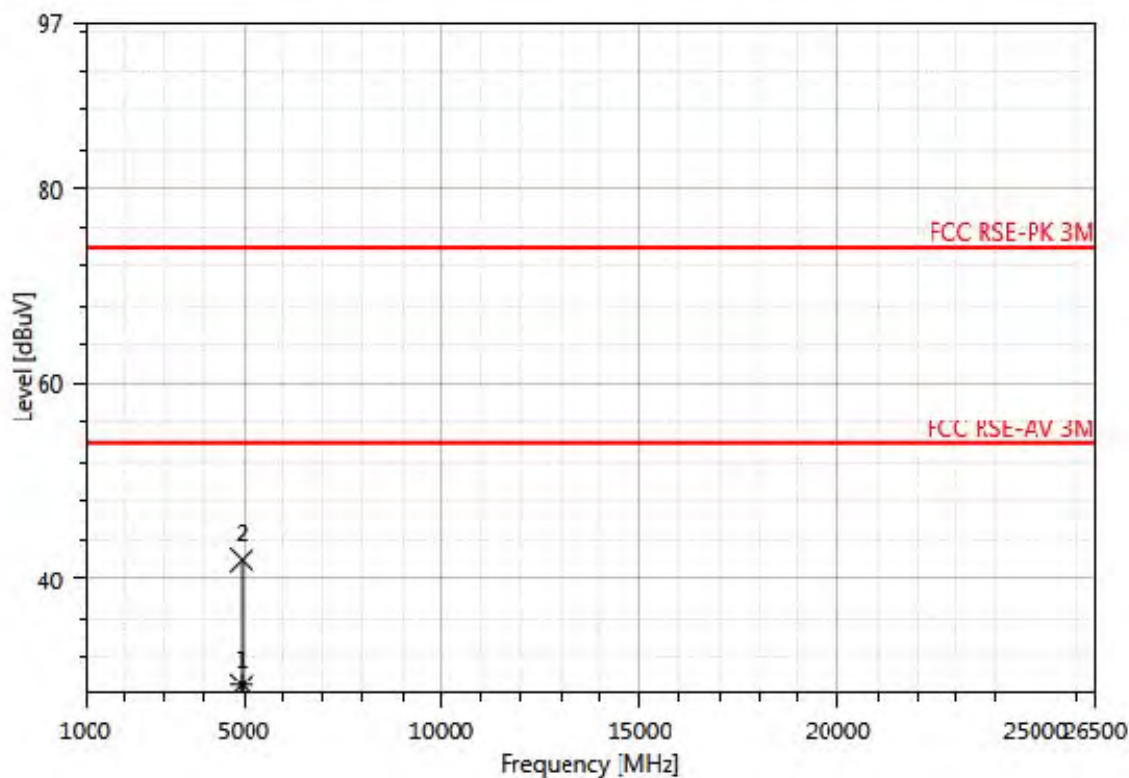
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|-------------------------|------------|----------------------------|------------------|
| Operation Mode :        | 2.4G       | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2477 MHz   | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH HIGH | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane   | Measurement Antenna Pol. : | VERTICAL         |



| Freq.   | Note    | Decetor  | Actual        | Spectrum | Factor | Limit  | Margin |
|---------|---------|----------|---------------|----------|--------|--------|--------|
| MHz     | F/H/E/S | Mode     | Reading Level | FS       | dB     | @3m    | dB     |
|         |         | QP/AV/PK | dBμV/m        | dBμV/m   |        | dBuV/m |        |
| 4954.00 | H       | Average  | 29.18         | 23.89    | 5.29   | 54.00  | -24.82 |
| 4954.00 | H       | Peak     | 42.03         | 36.74    | 5.29   | 74.00  | -31.97 |

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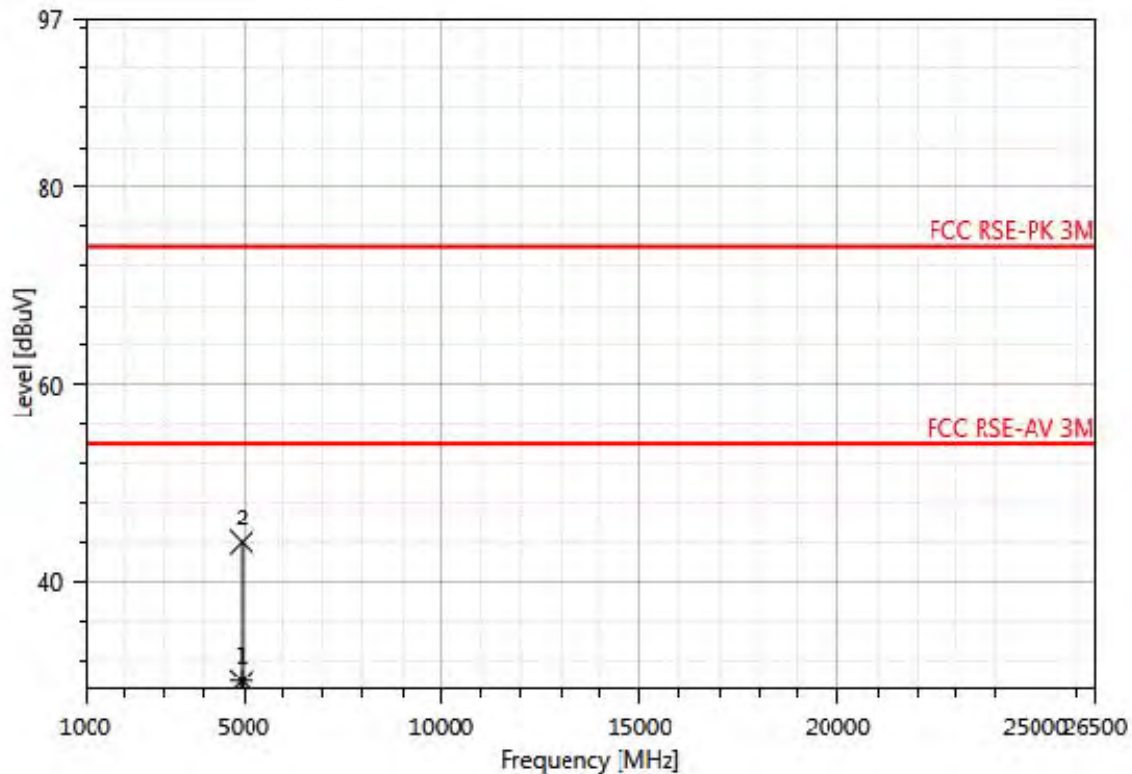
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| Operation Mode :        | 2.4G       | Test Date :                | 06/06/2016       |
| Fundamental Frequency : | 2477 MHz   | Temp. / Humi. :            | 22 deg_C / 61 RH |
| Operation Band :        | Tx CH HIGH | Test Engineer :            | Tin              |
| EUT Pol. :              | E2 Plane   | Measurement Antenna Pol. : | HORIZONTAL       |



| Freq.   | Note    | Decetor  | Actual        | Spectrum | Factor | Limit  | Margin |
|---------|---------|----------|---------------|----------|--------|--------|--------|
| MHz     | F/H/E/S | Mode     | Reading Level | FS       | dB     | @3m    | dB     |
|         |         | QP/AV/PK | dBμV/m        | dBμV/m   |        | dBuV/m |        |
| 4954.00 | H       | Average  | 29.97         | 24.68    | 5.29   | 54.00  | -24.03 |
| 4954.00 | H       | Peak     | 44.02         | 38.74    | 5.29   | 74.00  | -29.98 |

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## 8 20 dB BANDWIDTH MEASUREMENT

### 8.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set ETU normal operating mode.
3. Set SPA Center Frequency = fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 5MHz.
4. Set SPA Max hold. Mark peak, -20dB.

### 8.2 Test SET-UP (Block Diagram of Configuration)

Refer to section 7.2 for the plot.

### 8.3 Measurement Equipment Used:

| Conducted Emission Test Site |               |                 |               |            |            |
|------------------------------|---------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE               | MFR           | MODEL NUMBER    | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Power Meter                  | Anritsu       | ML2495A         | 1005007       | 12/20/2014 | 12/19/2015 |
| Power Sensor                 | Anritsu       | MA2411B         | 917032        | 12/20/2014 | 12/19/2015 |
| Spectrum Analyzer            | Agilent       | E4446A          | MY51100003    | 01/29/2015 | 01/28/2016 |
| Low Loss Cable               | HUBER+SUHNER  | SUCOFLEX 104PEA | N/A           | 01/02/2015 | 01/01/2016 |
| Spectrum Analyzer            | Agilent       | E4440A          | MY45304525    | 05/05/2015 | 05/04/2016 |
| DC Block                     | Mini-Circuits | BLK-18-S+       | 1             | 01/02/2015 | 01/01/2016 |
| Attenuator                   | Mini-Circuit  | BW-S10W2+       | 002           | 01/02/2015 | 01/01/2016 |
| Splitter                     | Agilent       | 11636B          | N/A           | 01/02/2015 | 01/01/2016 |

### 8.4 Measurement Results:

| Frequency (MHz) | 20dB Bandwidth (kHz) |
|-----------------|----------------------|
| 2405            | 2117                 |
| 2475            | 2127                 |
| 2480            | 2136                 |

Refer to attached data chart.

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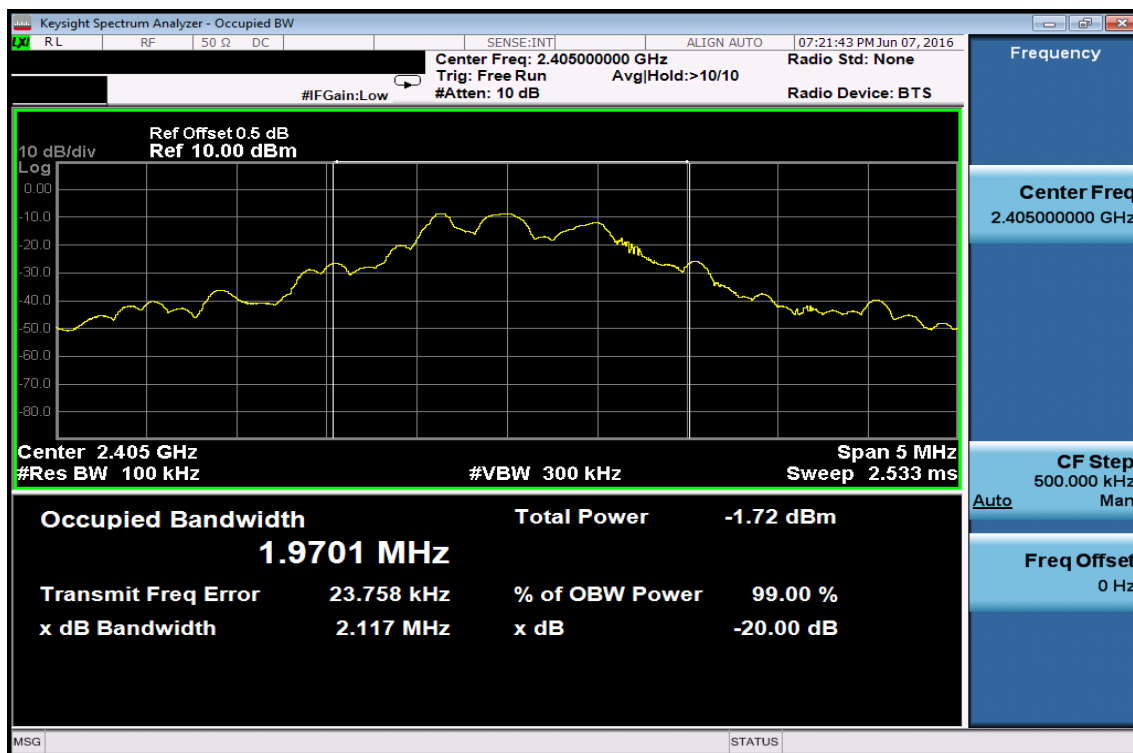
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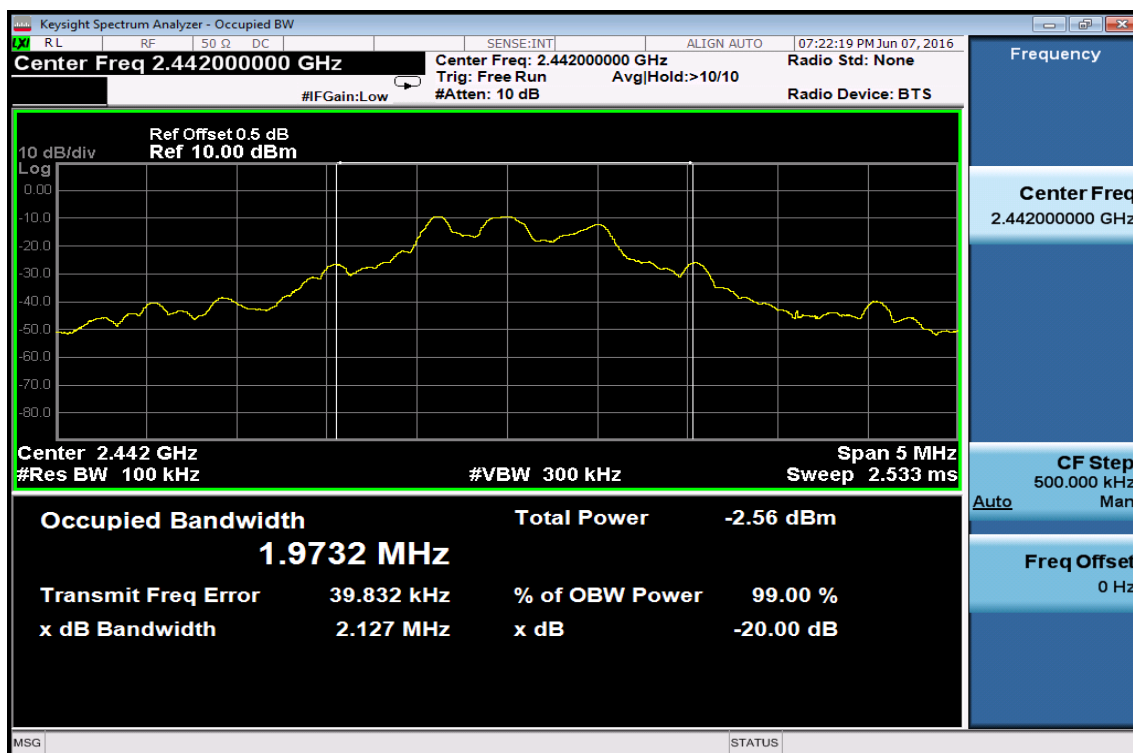
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## 2405MHz



## 2442MHz



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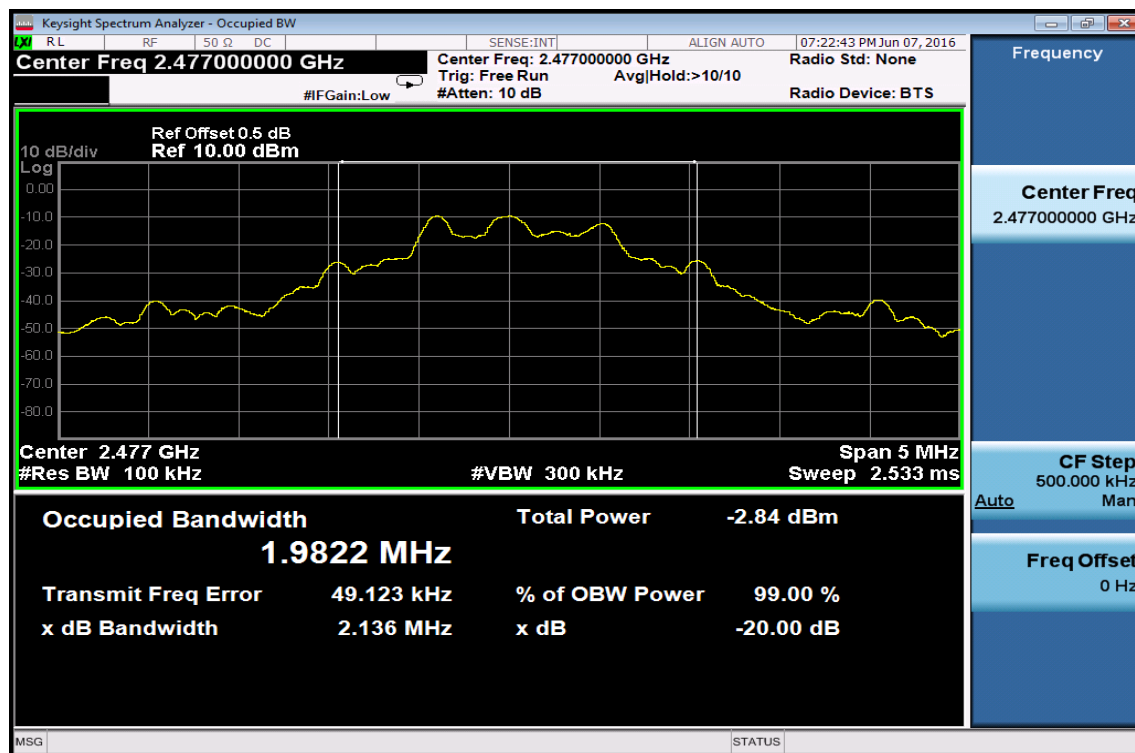
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## 2477MHz



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## 9 ANTENNA REQUIREMENT

### 9.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

### 9.2 Antenna Connected Construction:

embedded-in antenna design is used.

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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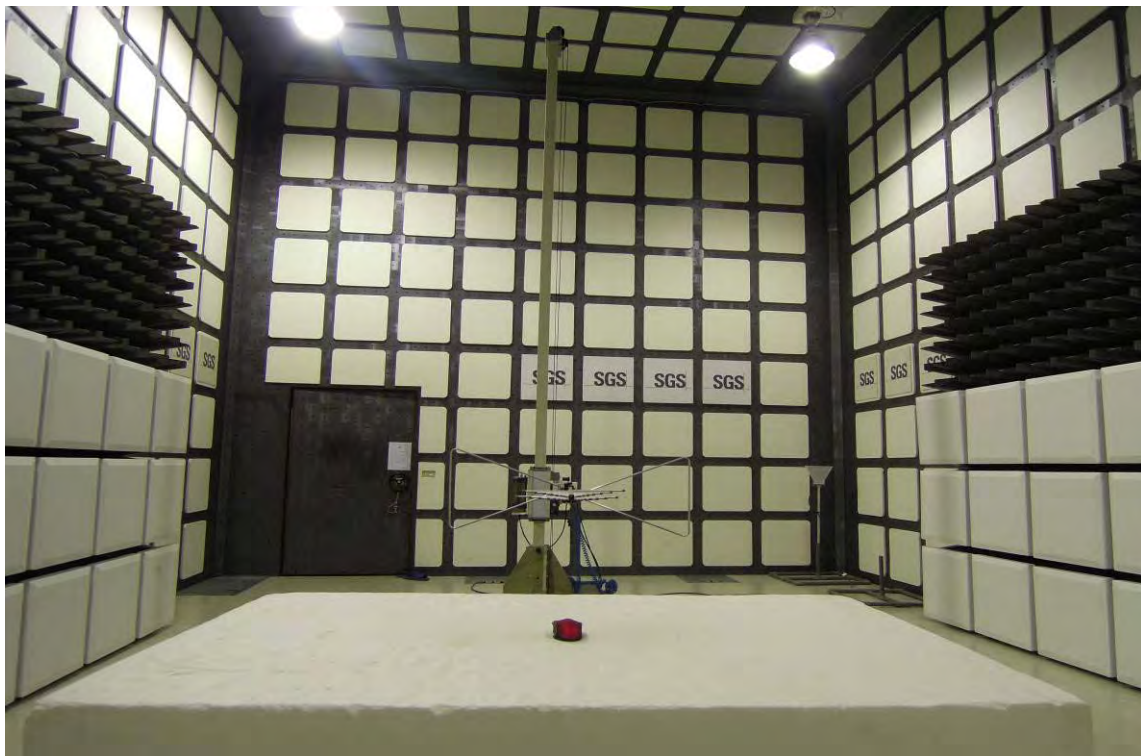
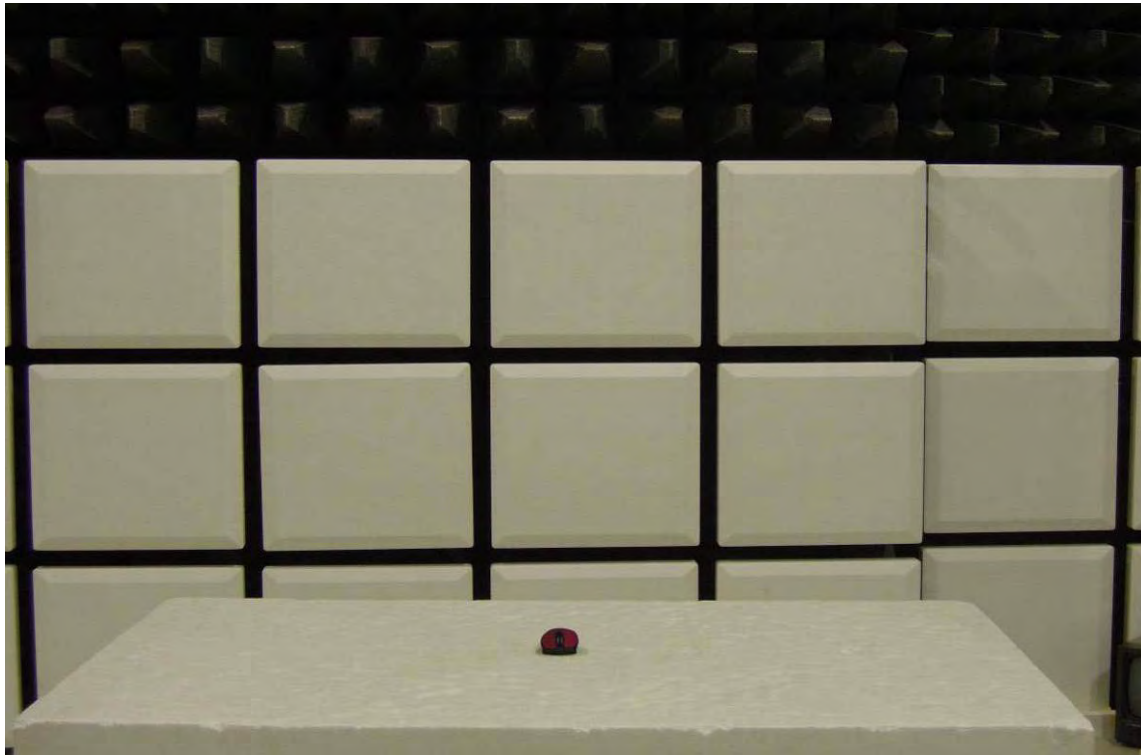
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## PHOTOGRAPHS OF SET UP

### Radiated Emission Set up Photos (Below 1GHz)



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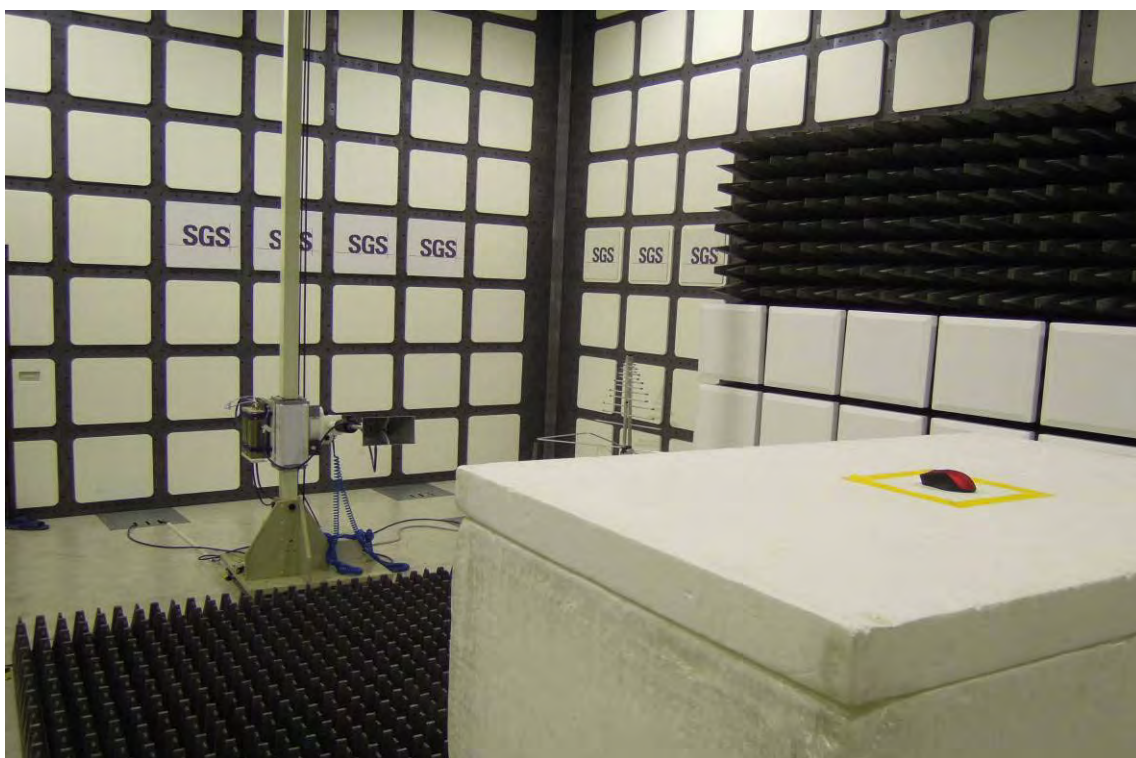
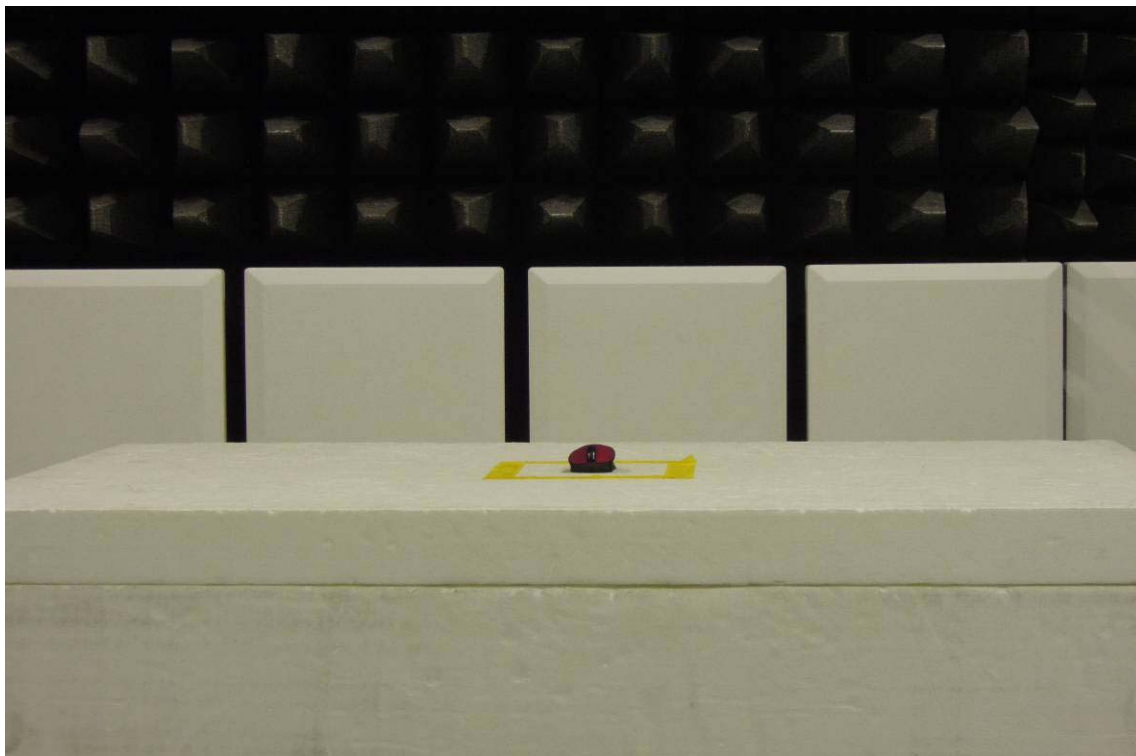
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## Radiated Emission Set up Photos (Above 1GHz)



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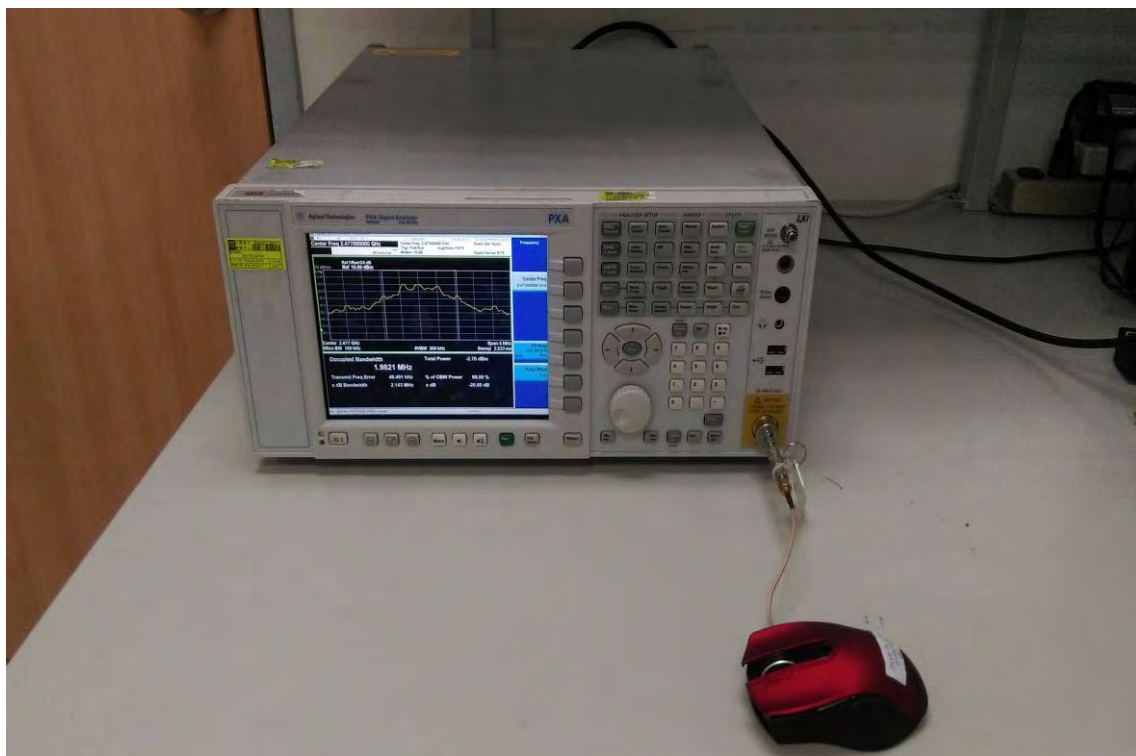
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## Conducted Setup Photo (Measurement at Antenna Port)



## PHOTOGRAPHS OF EUT

Please refer to the attached file(EUT Photo)

~ End of Report ~

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