Report No.SH16030055W36

# FCC RF TEST REPORT

*Issued to*

**TRIMBLE EUROPE B.V.**

*For*

**Rugged Smart Phone**

| | | |
|---|---|---|
| Model Name | : | TDC100_4G |
| Trade Name | : | Trimble |
| Brand Name | : | Trimble |
| Standard | : | 47 CFR Part 15,Subpart C<br>ANSI C63.10-2013<br>RSS 247 Issue 1<br>RSS GEN Issue 4 |
| FCC ID | : | NZI-10900320 |
| IC ID | : | 9288A-10900320 |
| Test date | : | Apr.7,2016 to Apr.8,2016 |
| Issue date | : | Jul.12,2016 |

*by*

**Shanghai Skylabs Co., Ltd.**

***Tested by*** Wu Hongfei ***Approved by*** Gu Yongjiang ***Review by*** Leonard Bao

# DIRECTORY

## Change History

| Issue | Date | Reason for change |
|---|---|---|
| 1.0 | Apr.9,2016 | First edition |
| 2.0 | Jul.12,2016 | Second edition |
| | | |
| | | |
| | | |
| | | |

# 1. General Information

## 1.1 Applicant

**TRIMBLE EUROPE B.V.**
European Regional Fulfilment Centre
Meerheide, 45
5521DZ Eersel
THE NETHERLANDS

## 1.2 Manufacturer

**TRIMBLE EUROPE B.V.**
European Regional Fulfilment Centre
Meerheide, 45
5521DZ Eersel
THE NETHERLANDS

## 1.3 Description of EUT

| | |
|---|---|
| EUT Name..... : | Rugged Smart Phone |
| Model Name..... : | TDC100_4G |
| Brand Name..... : | Trimble |
| Trade Name ..... : | Trimble |
| Hardware Version ..... : | TDC100.4G_V1.0 |
| Software Version ..... : | TDC100.4G.16.22.08 |
| Modulation Type ..... : | Bluetooth V4.0:1Mbps(GFSK), FHSS |
| Frequency Range..... : | 2.402GHz - 2.480GHz (at interval of 2MHz) |
| Channel Number..... : | 40 |
| EUT Stage ..... : | Production Unit |
| Antenna Type..... : | ABS Frame and FPC antenna |
| Antenna Gain..... : | 0.44 dBi |

*NOTE 1:*
*The EUT is a Smart Phone. The EUT contains Bluetooth Module operating at 2.4GHz ISM band; the frequencies allocated for the Bluetooth Module is F(MHz)=2402+2*n (0<=n<=39). The lowest, middle, highest channel numbers of the Bluetooth Module used and tested in this report are separately 0 (2402MHz), 19 (2440MHz) and 39 (2480MHz).*
*NOTE 2:*
*For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacture.*

# 2. Facilities and Accreditations

## 2.1 Test Facility

Shanghai Skylabs Co., Ltd. Skylabs is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6644. A 9*6*6(m) full/semi-anechoic chamber was used for the radiated emissions test.

## 2.2 Environmental Conditions

Ambient temperature: 15~35°C
Relative humidity: 30~60%
Atmosphere pressure: 86-106kPa

## 2.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.
Uncertainty of Conducted Emission: ±1.76dB
Uncertainty of Radiated Emission:±3.16dB

## 2.4 List of Equipments Used

| Description | Manufacturer | Model | Serial No. | Cal. Date | Cal. Due |
|---|---|---|---|---|---|
| Service Simulator | Anritsu | MT8852A | 6K00002788 | 2015.9.22 | 1year |
| Spectrum Analyzer | R&S | FSU26 | 200880 | 2016.2.25 | 1year |
| Power Splitter | Weinschel | 1506A | NW521 | (n.a.) | (n.a.) |
| Power Splitter | Mini-Circuits | ZFRSC-183-S+ | 765001016 | (n.a.) | (n.a.) |
| Attenuator 1 | Resnet | 10dB | (n.a.) | (n.a.) | (n.a.) |
| Attenuator 2 | Resnet | 3dB | (n.a.) | (n.a.) | (n.a.) |
| Full/Semi-Anechoic Chamber | CHENGYU | 9.2×6.25×6.15m | SAR | 2015.9.14 | 3year |
| EMI Test Receiver | R&S | ESCI7 | 100787 | 2016.2.55 | 1year |
| Antenna | R&S | HL562 | 100385 | 2015.6.17 | 1year |
| Antenna | R&S | HF906 | 100565 | 2015.6.17 | 1year |
| LISN | TESEQ | NNB 51 | 33285 | 2016.2.25 | 1year |
| Personal Computer | HP | (n.a.) | (n.a.) | (n.a.) | (n.a.) |
| Test Antenna-Horn | Schwarzbeck | BBHA9170 | BBHA91970171 | 2015.9.22 | 1year |
| Test Antenna-Horn | Schwarzbeck | BBHA 9120D | 9120D-1033 | 2015.7.25 | 1year |
| Test Antenna-Log | Schwarzbeck | VULB 9163 | 9163-561 | 2015.9.25 | 1year |
| Test Antenna-Loop | Rohde&Schwarz | HFH2-Z2 | 860004/001 | 2015.9.22 | 1year |
| Temporary Antenna Connector | Farpu | SMA-K | (n.a.) | (n.a.) | (n.a.) |
| RF Cable | (n.a.) | (n.a.) | (n.a.) | (n.a.) | (n.a.) |

*NOTE:*
*Equipments listed above have been calibrated and are in the period of validation.*

# 3. Test Standards and Results

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

FCC Part 15 Subpart C §15.247
ANSI C63.10-2013
June 2015 KDB558074
INDUSTRY CANADA RSS 247 Issue 1
INDUSTRY CANADA RSS GEN Issue 4

*NOTE:*
*(1)All test items were verified and recorded according to the standards and without any deviation during the test.*
*(2)This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart C (Bluetooth,2.4GHz ISM band radiators),recorded in a separate test report.*

Test items and the results are as bellow:

| No. | FCC Rules | IC Rules | Description | Result |
|---|---|---|---|---|
| 1 | 15.203 | RSS-GEN 7.1.2 | Antenna Requirement | Pass |
| 2 | 15.247(b) | RSS-247 5.4(4) | Peak Output power | Pass |
| 3 | 15.247(b) | RSS-247 5.4(4) | Average Power | Pass |
| 4 | 15.247(a) | RSS-247 5.2(1) | 6dB & 20dB Bandwidth | Pass |
| 5 | 15.247(d) | RSS-247 5.5<br>RSS-GEN 8.10 | Conducted Spurious Emission and Band Edge | Pass |
| 6 | 15.247(d) | RSS-247 5.5<br>RSS-GEN 8.10 | Restricted Frequency Bands | Pass |
| 7 | 15.207 | RSS-GEN 8.8 | Conducted Emission | Pass |
| 8 | 15.247(d)<br>15.209 | RSS-247 5.5<br>RSS-GEN 8.9 | Radiated Emission | Pass |
| 9 | 15.247(e) | RSS-247 5.2(2) | Power Spectral Density (PSD) | Pass |

# 4. 47 CFR Part 15C

## 4.1 Antenna requirement

### 4.1.1 Applicable standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by 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.

### 4.1.2 Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

# 5. Test Result

## 5.1 Peak Output Power

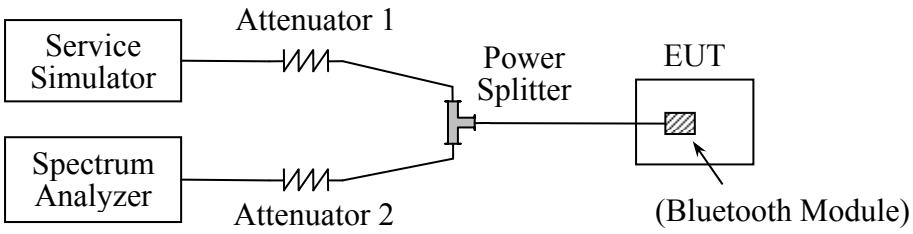
### 5.1.1 Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

### 5.1.2 Test Description

The measured output power was calculated by the reading of the spectrum analyzer and calibration.

**A. Test Setup:**




The Bluetooth Module of the EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the Bluetooth Service Simulator (SS) withAttenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm;the path loss as the factoris calibrated to correct the reading.During the measurement, the Bluetooth Module of the EUT is activated and controlled by theSS, and is set to operate under test mode transmitting at maximum power.

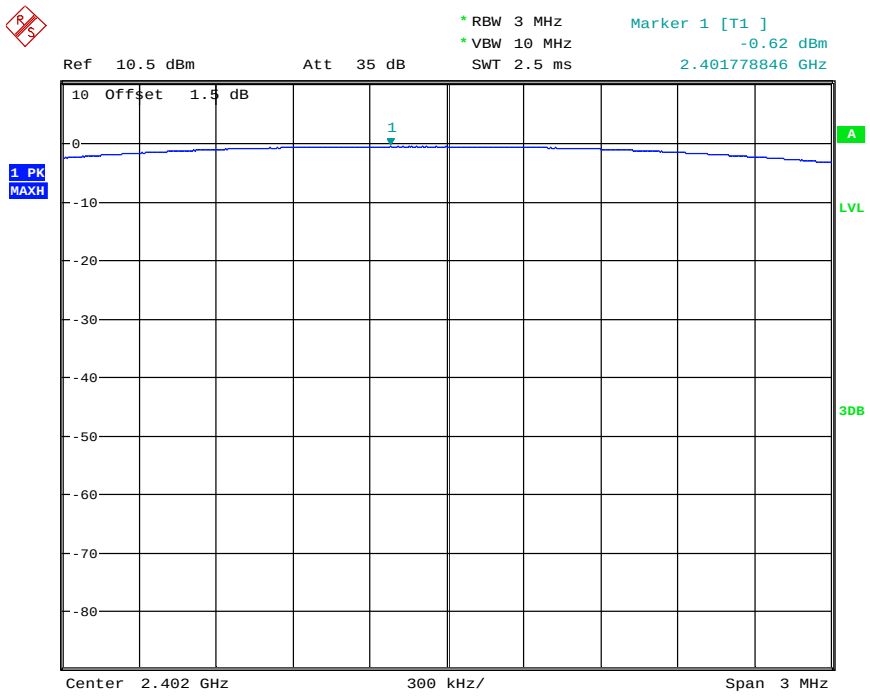
### 5.1.3 Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.(Duty cycle > 98%)

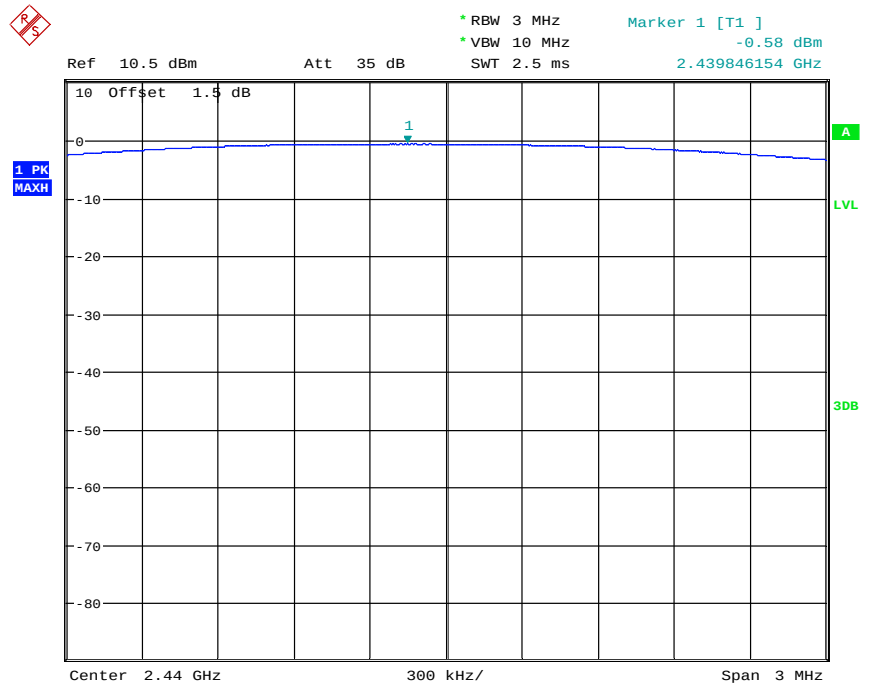
**A. Test Verdict:**

| Channel | Frequency (MHz) | Measured Output Peak Power | | Refer to plot | Limit | | Verdict |
|---|---|---|---|---|---|---|---|
| | | dBm | W | | dBm | W | |
| 0 | 2402 | -0.62 | 0.00087 | Plot A | 30 | 1 | Pass |
| 19 | 2440 | -0.58 | 0.00087 | Plot B | | | Pass |
| 39 | 2480 | -3.55 | 0.00044 | Plot C | | | Pass |

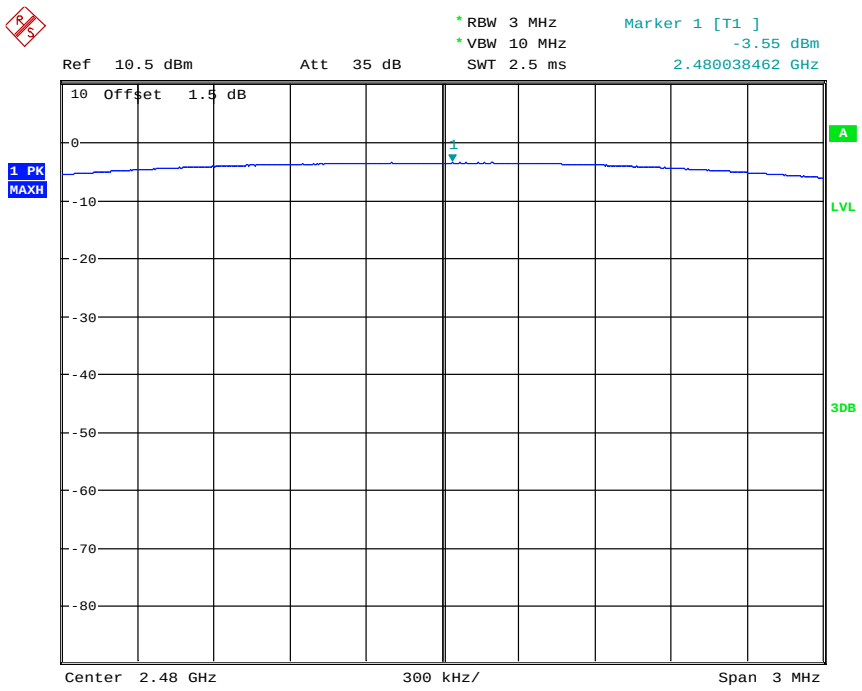
## B. Test Plots:




(Plot A: Channel 0:2402MHz)




(Plot B:Channel 19: 2440MHz)

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(Plot C: Channel 39:2480MHz)

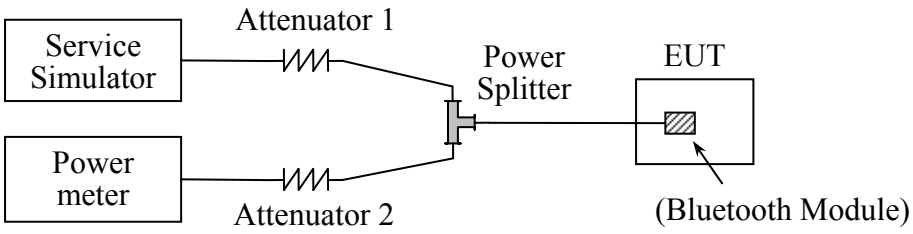
## 5.2 Average Power

### 5.2.1 Requirement

None; for reporting purposes only.

### 5.2.2 Test Description

The transmitter output was split to 2 ways, the one was connected to Service Simulator as monitor, the other one was connected to Power Meter. (Duty cycle > 98%)




### 5.2.3 Results

| Channel | Frequency (MHz) | Measured Output Peak Power | |
|---|---|---|---|
| | | dBm | W |
| 0 | 2402 | -0.74 | 0.00084 |
| 19 | 2440 | -0.71 | 0.00085 |
| 39 | 2480 | -3.72 | 0.00042 |

## 5.3 6dB & 20dB Bandwidth

### 5.3.1 Requirement

According to FCC section 15.247(a) (2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 5.3.2 Test Description

See section 5.1.2 of this report.

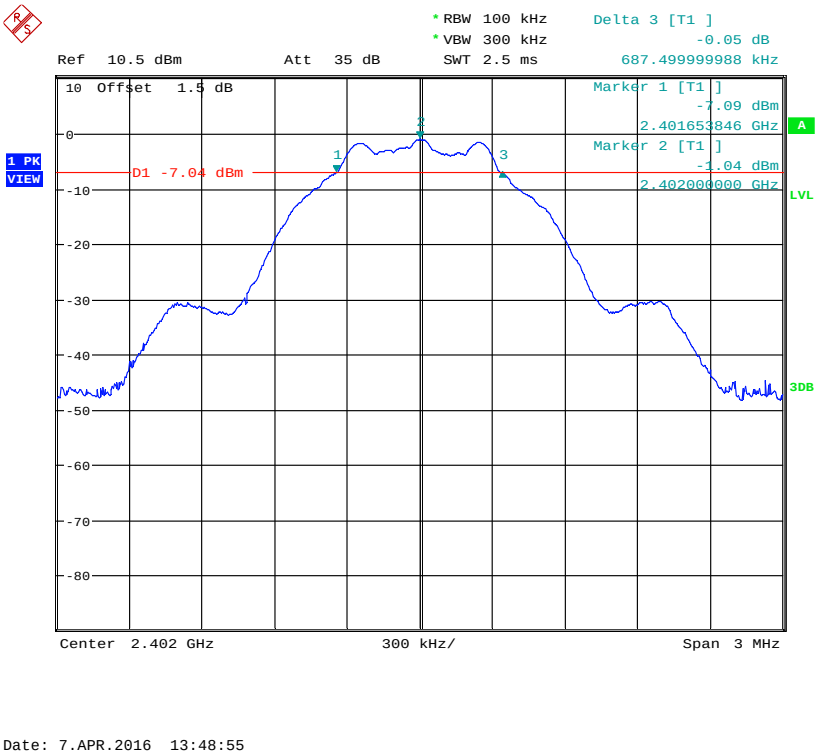
### 5.3.3 Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

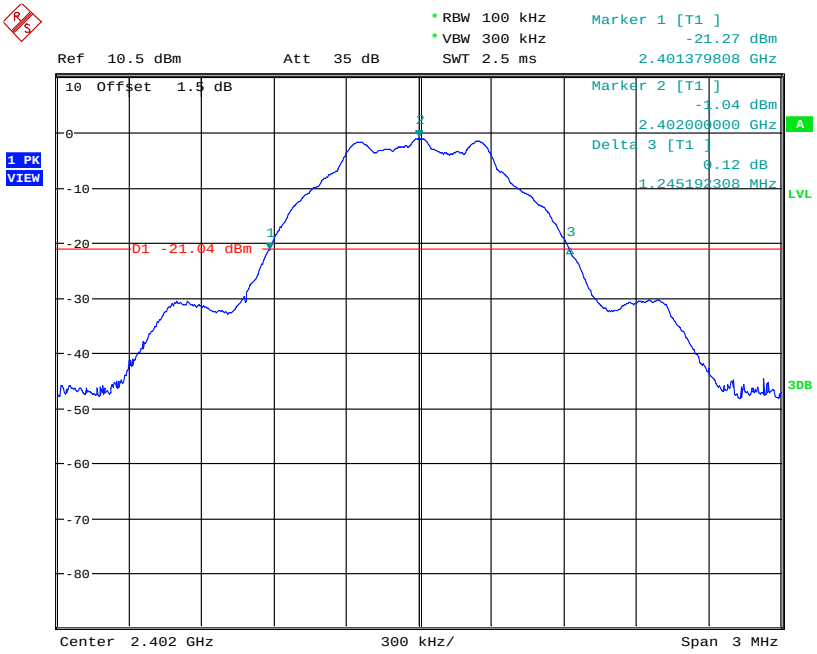
**A. Test Verdict:**

| Channel | Frequency (MHz) | 6dB Bandwidth (KHz) | Refer to plot | 20dB Bandwidth (MHz) | Refer to plot | Limit (KHz) | Result |
|---|---|---|---|---|---|---|---|
| 0 | 2402 | 687.499 | Plot A1 | 1.245 | Plot A2 | ≥500 | Pass |
| 19 | 2440 | 701.923 | Plot B1 | 1.240 | Plot B2 | ≥500 | Pass |
| 39 | 2480 | 667.884 | Plot C1 | 1.153 | Plot C2 | ≥500 | Pass |

**B. Test Plots:**




(Plot A1:Channel 0:2402MHz)

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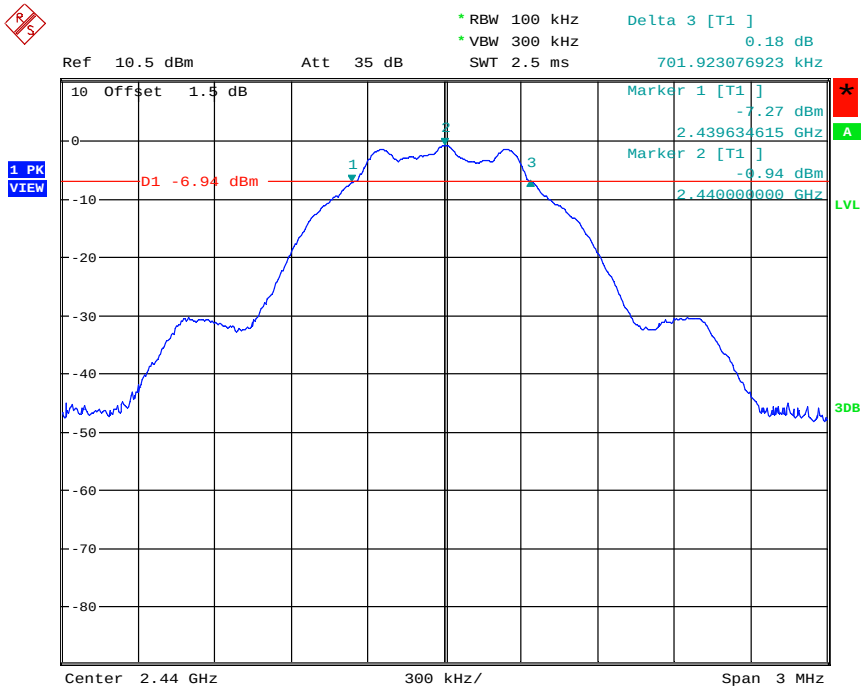
(Plot A2:Channel 0:2402MHz)

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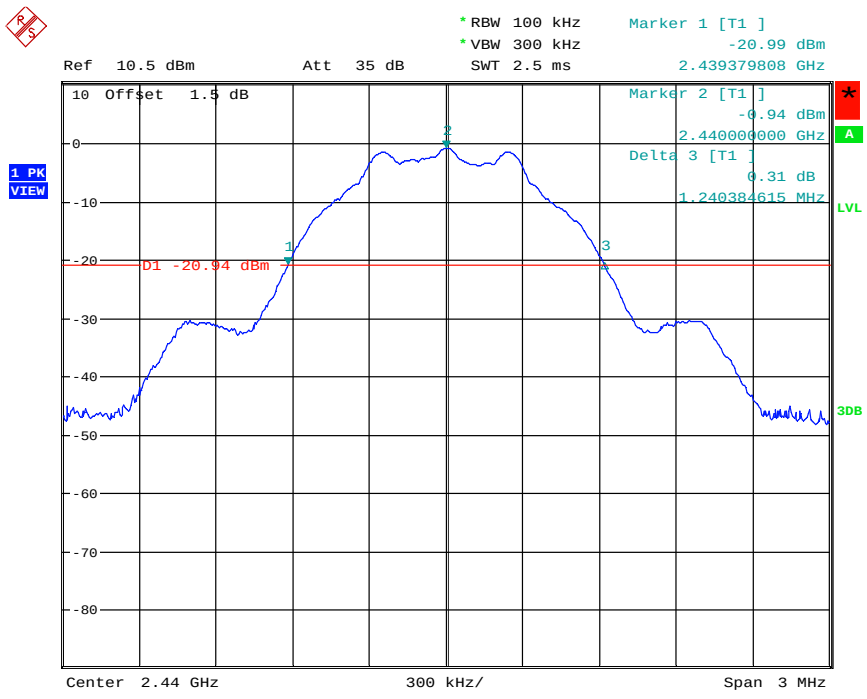
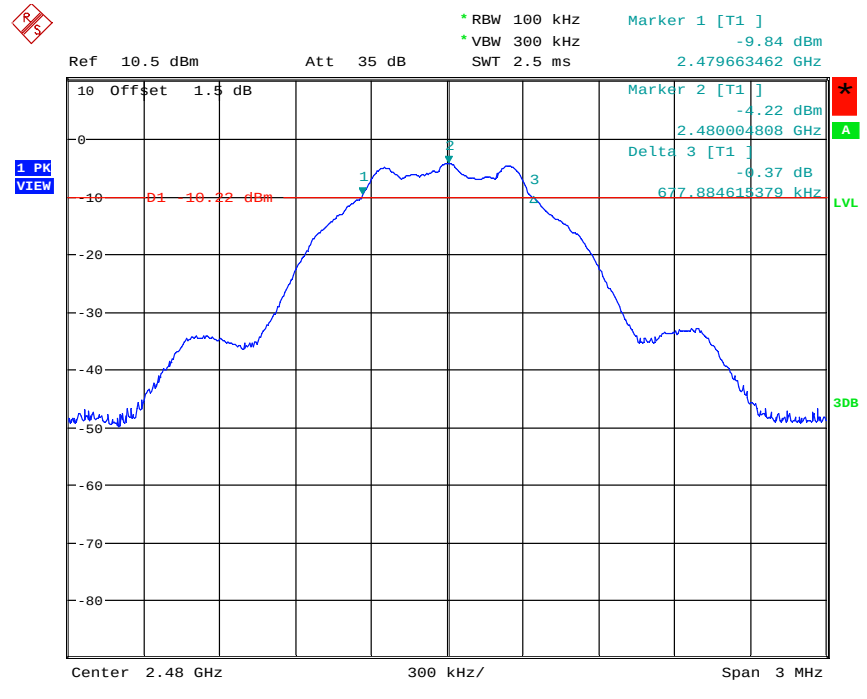
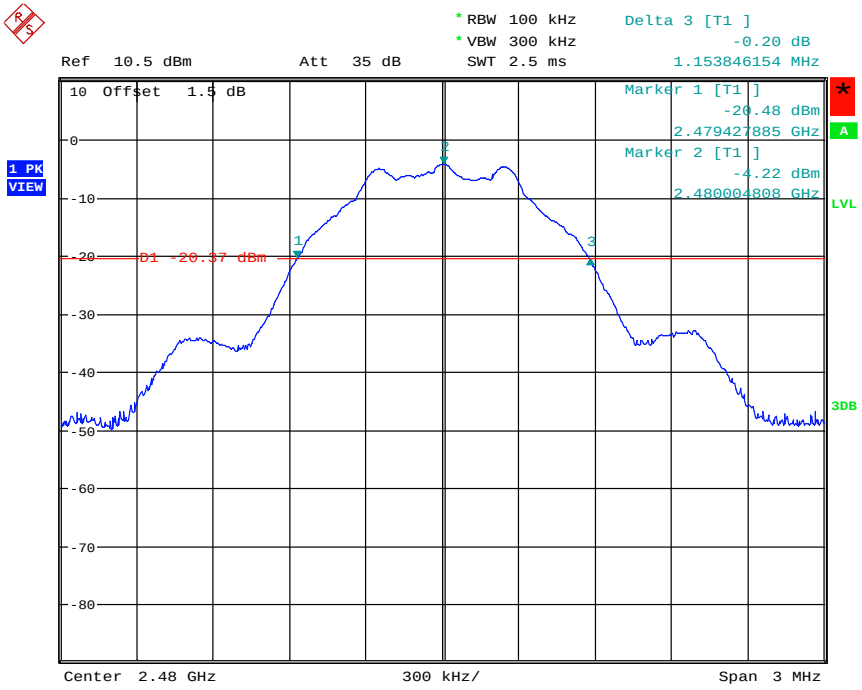
(Plot B1:Channel 19:2440MHz)




(Plot B2:Channel 19:2440MHz)




(Plot C1:Channel 39:2480MHz)

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(Plot C2:Channel 39:2480MHz)

## 5.4 Conducted Spurious Emissions and Band Edge

### 5.4.1 Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### 5.4.2 Test Description

See section 5.1.2 of this report.

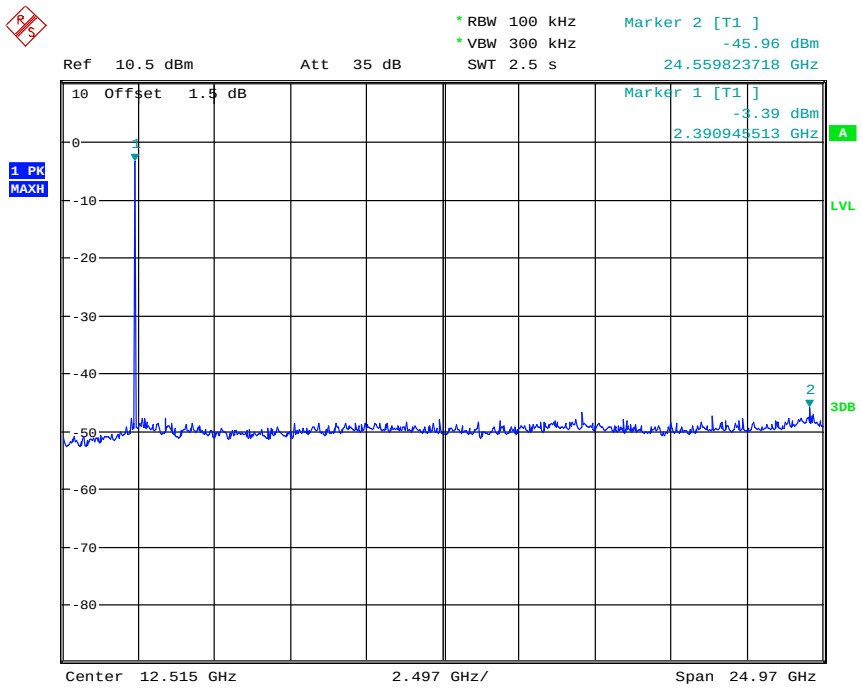
### 5.4.3 Test Result

The Bluetooth Module operates at hopping-off test mode. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

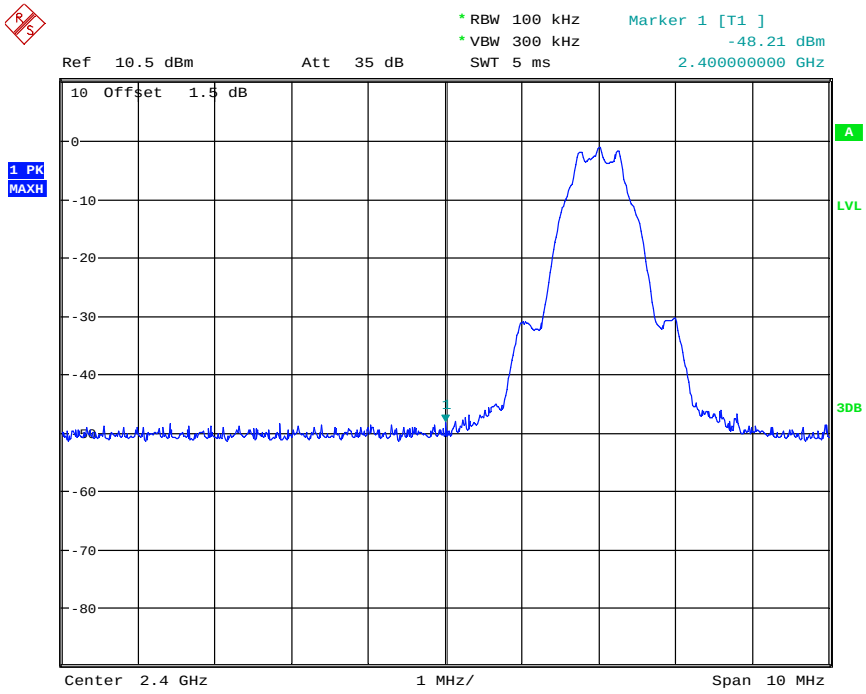
**A. Test Verict:**

| Channel | Frequency (MHz) | Measured max out of band emission(dBm) | Refer to plot | Limit(dBm) | | Result |
|---|---|---|---|---|---|---|
| | | | | Carrier level | Calculated 20dBc limit | |
| 0 | 2402 | -45.96 | Plot A1/A2 | -3.39 | -23.39 | Pass |
| 19 | 2440 | -46.30 | Plot B | -1.29 | -21.29 | Pass |
| 39 | 2480 | -47.75 | Plot C1/C2 | -5.46 | -25.46 | Pass |

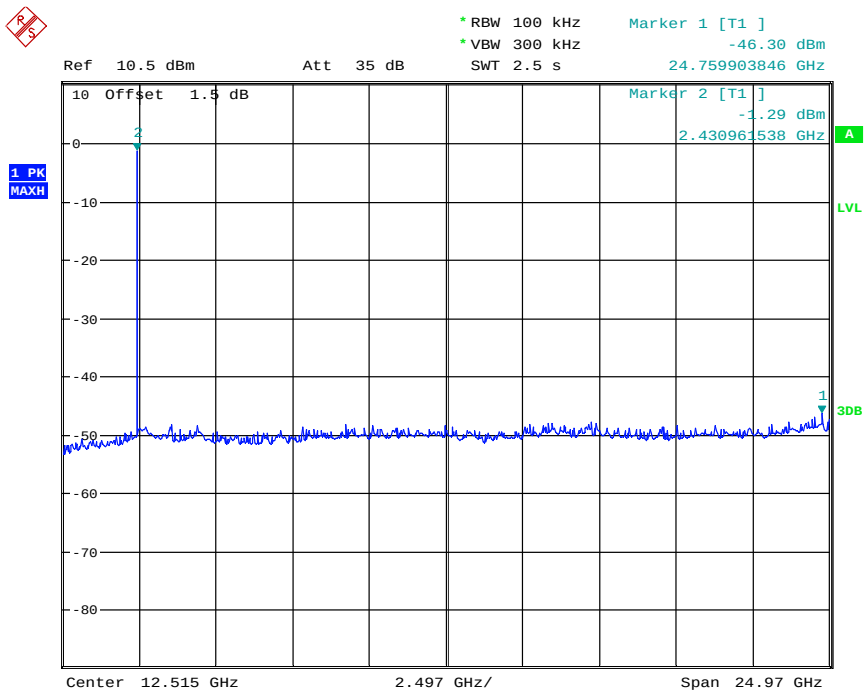
## B. Test Plot:




(Plot A1:Channel0:2402MHz 30MHz~25GHz)




(Plot A2: Channel 0: 2402MHz Band Edge)

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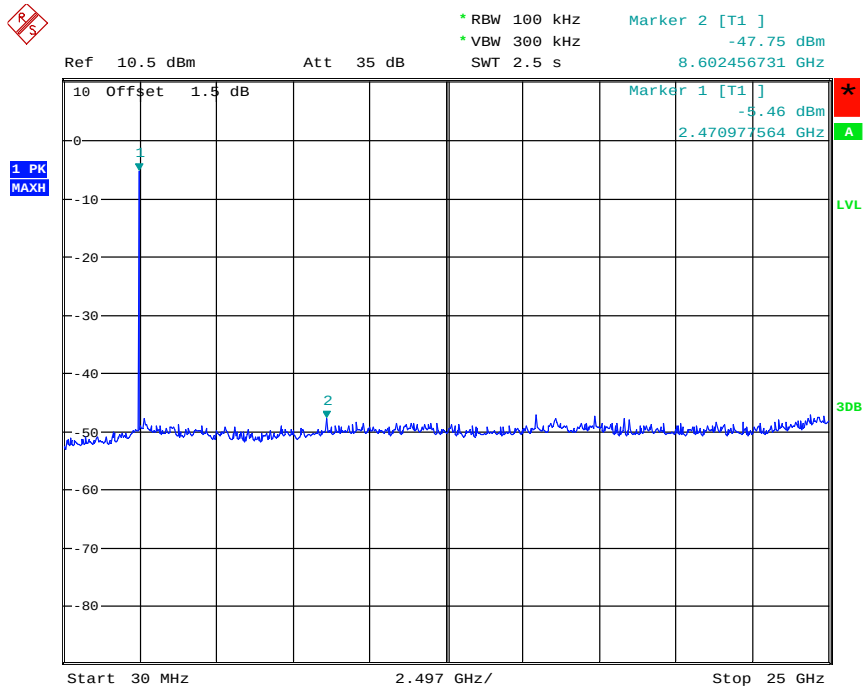
(Plot B: Channel 19:2440MHz 30MHz~25GHz)

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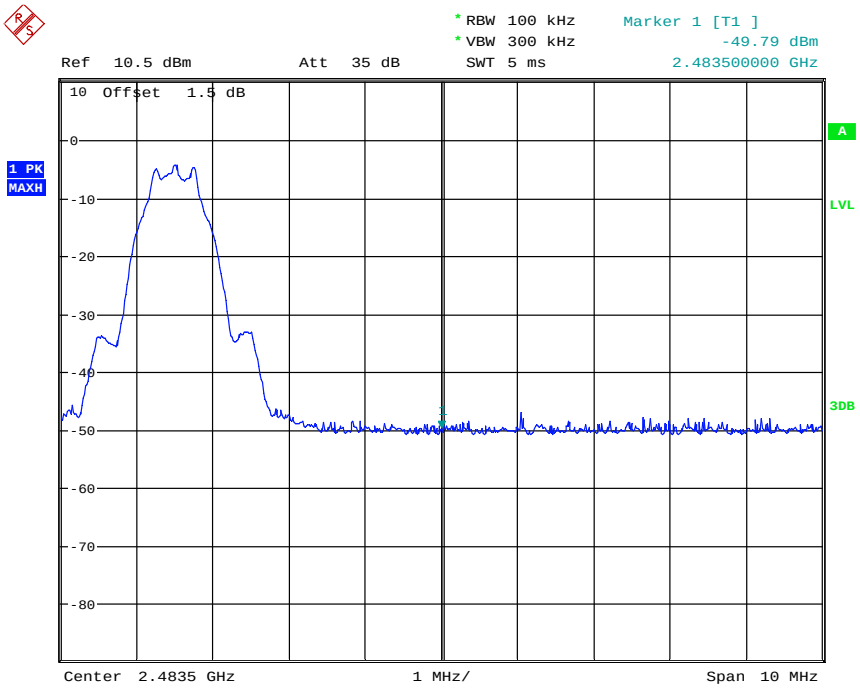
(PlotC1:Channel39:2480MHz 30MHz~25GHz)

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(PlotC2:Channel 39:2480MHz Band Edge)

## 5.5 Power Spectral Density(PSD)

### 5.5.1 Requirement

According to FCC section 15.247(e), the same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used

### 5.5.2 Test Description

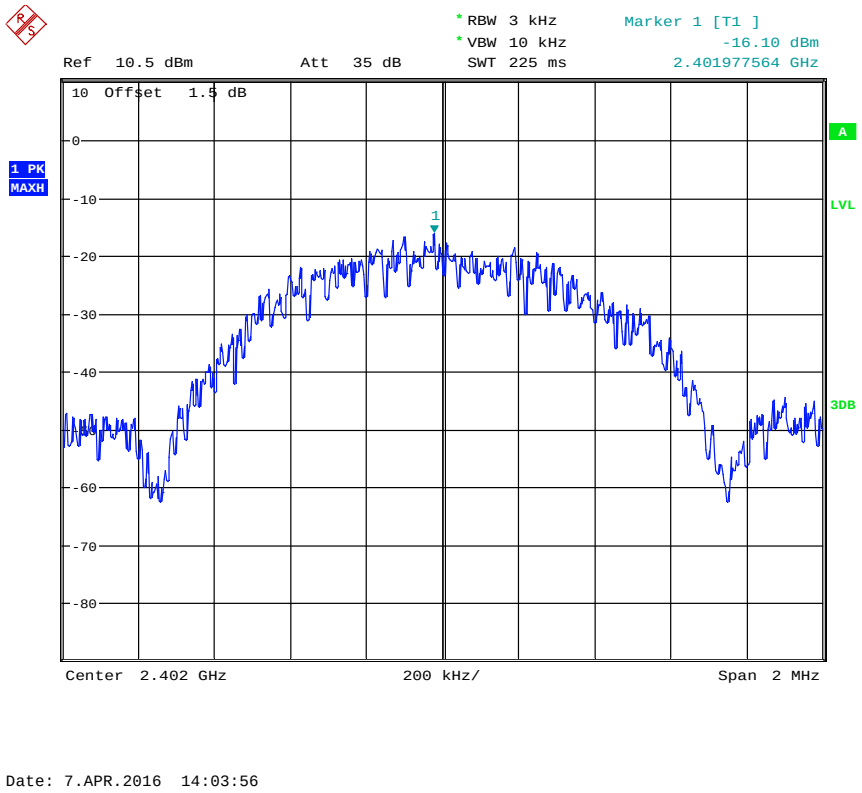
See section 5.1.2 of this report.

### 5.5.3 Test Result

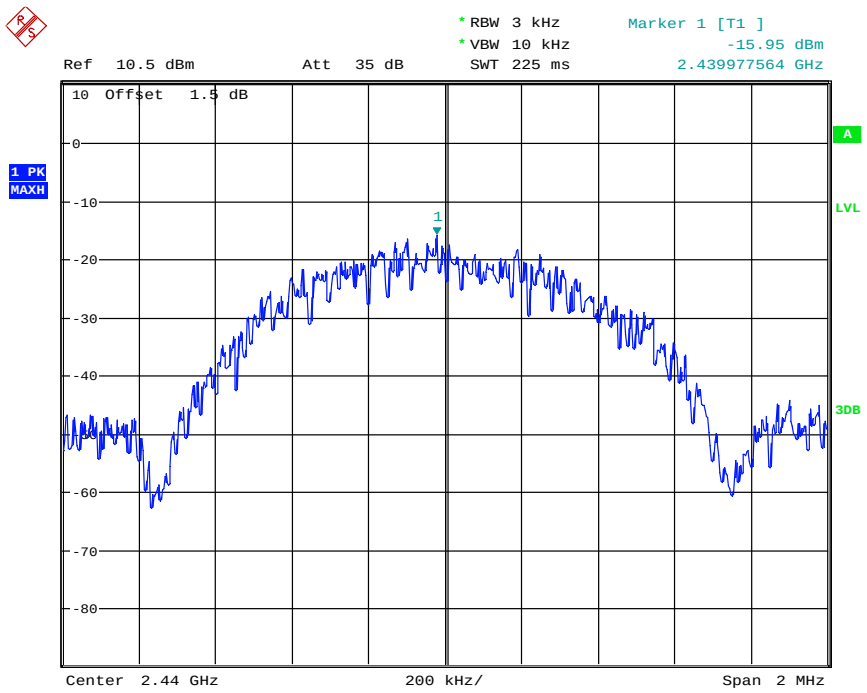
**A. Test Verdict**

| Channel | Frequency (MHz) | Measured PSD (dBm/3kHz) | Refer to plot | Limit (dBm/3kHz) | Result |
|---|---|---|---|---|---|
| 0 | 2402 | -16.10 | Plot A | 8 | Pass |
| 19 | 2440 | -15.95 | Plot B | 8 | Pass |
| 39 | 2480 | -19.18 | Plot C | 8 | Pass |

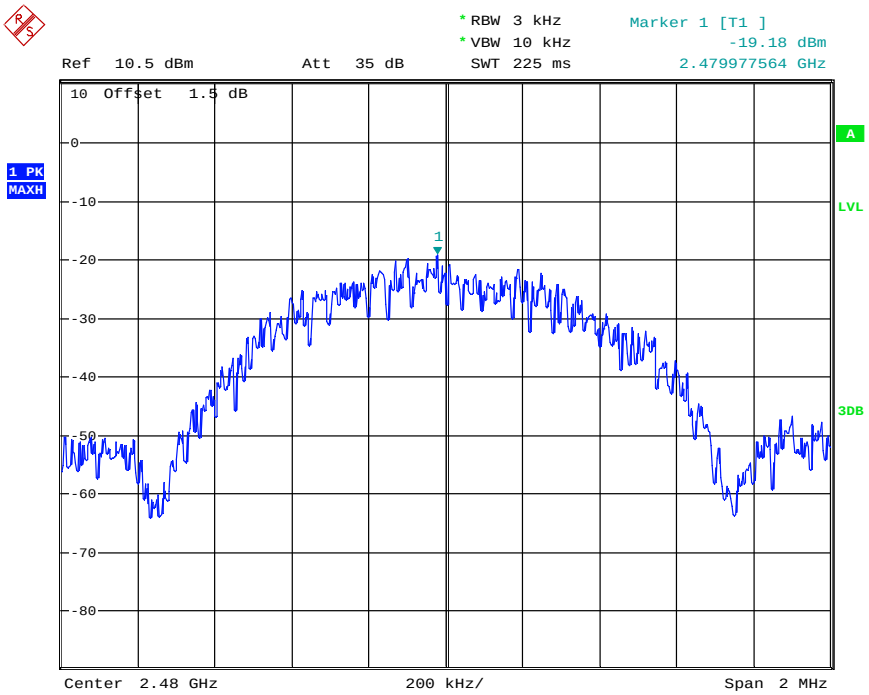
**B. Test Plot**




(Plot A: Channel = 0, 2402MHz)




(Plot B: Channel = 19, 2440MHz)



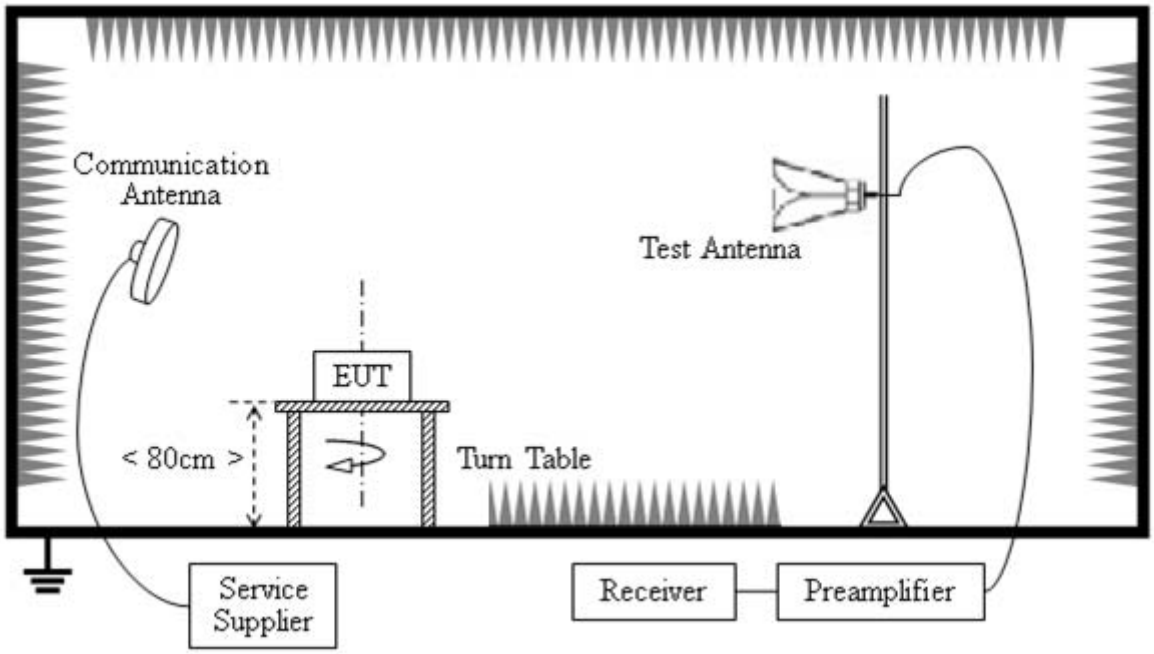

(Plot C: Channel = 39, 2480MHz)

## 5.6 Restricted Frequency Bands

### 5.6.1 Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, , In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

### 5.6.2 Test Description




The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.
For the Test Antenna:
Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

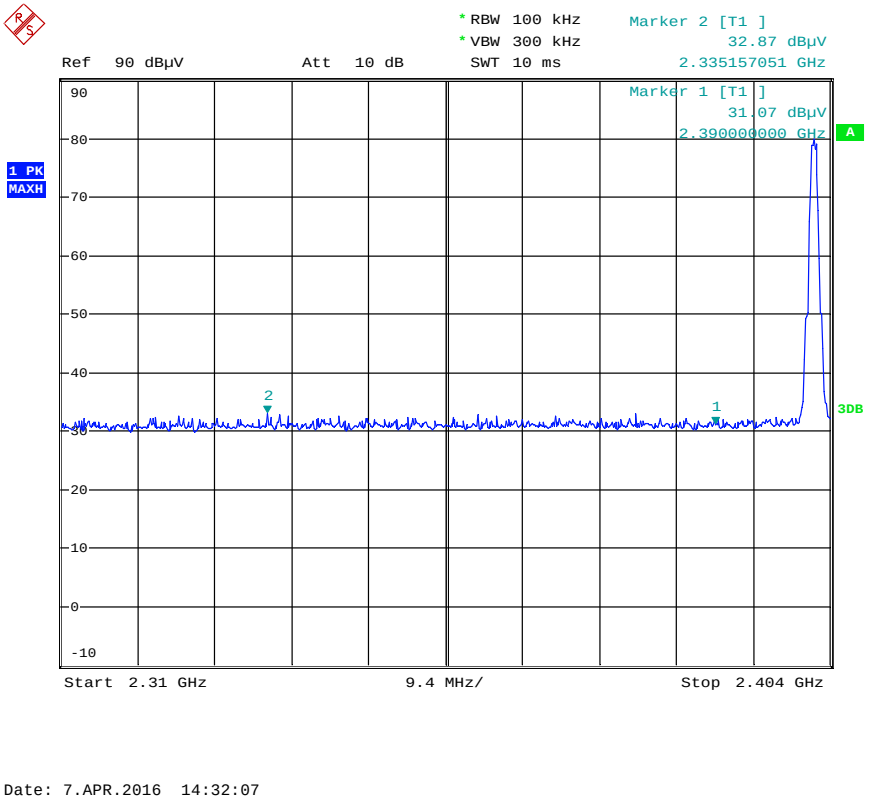
### 5.6.3 Test Result

The lowest and highest channels are tested to verify the Restricted Frequency Bands.
The measurement results are obtained as below:
E [dBV/m] =UR + AT + AFactor [dB]; AT =LCable loss [dB]-Gpreamp [dB]
AT: Total correction Factor except Antenna
UR: Receiver Reading
Gpreamp: Preamplifier Gain
AFactor: Antenna Factor at 3m
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.
The lowest and highest channels are tested to verify the Restricted Frequency Bands

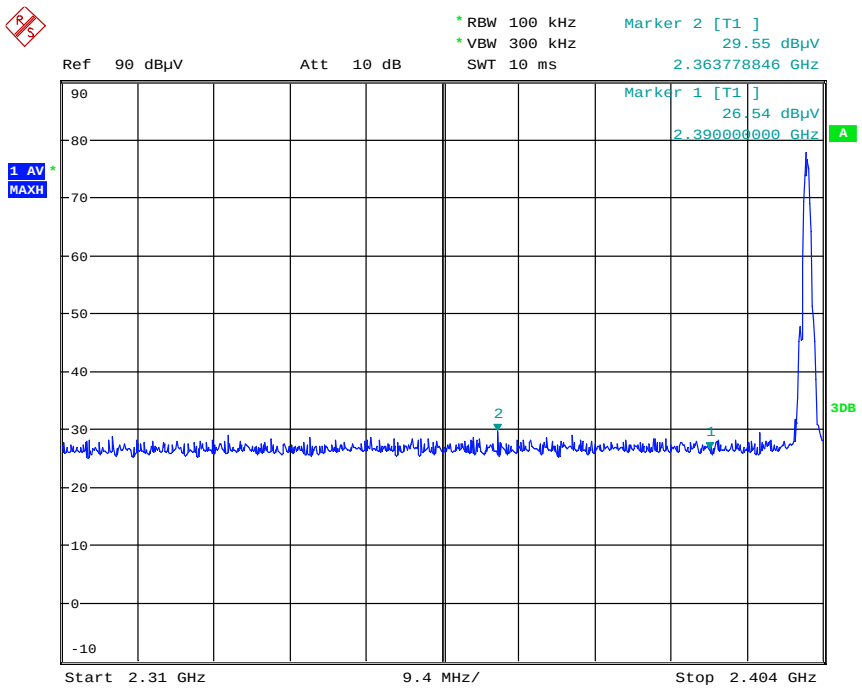
## A. Test Verdict

| Ch | Frequency (MHz) | Detector PK/AV | Receiver Reading UR (dBuV/m) | AT (dB) | Afactor (dB@3m) | Max. Emission (dBuV/m) | Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|---|---|
| 0 | 2335.15 | PK | 32.87 | -32.2 | 32.56 | 33.23 | 74 | Pass |
| 0 | 2363.77 | AV | 29.55 | -32.2 | 32.56 | 29.91 | 54 | Pass |
| 39 | 2485.05 | PK | 31.86 | -30.7 | 32.50 | 33.66 | 74 | Pass |
| 39 | 2492.56 | AV | 29.45 | -30.7 | 32.50 | 31.25 | 54 | Pass |

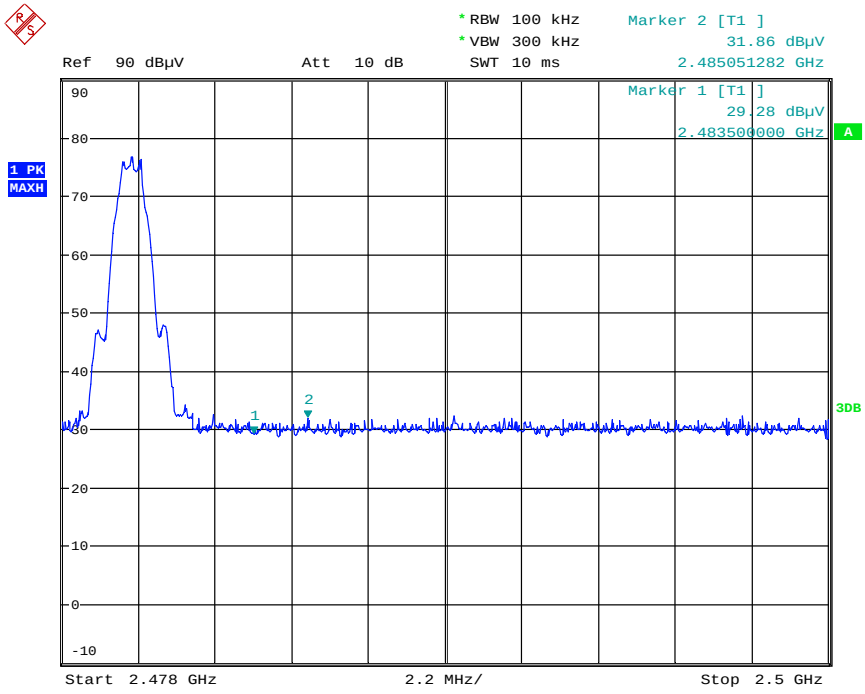
## B. Test Plot



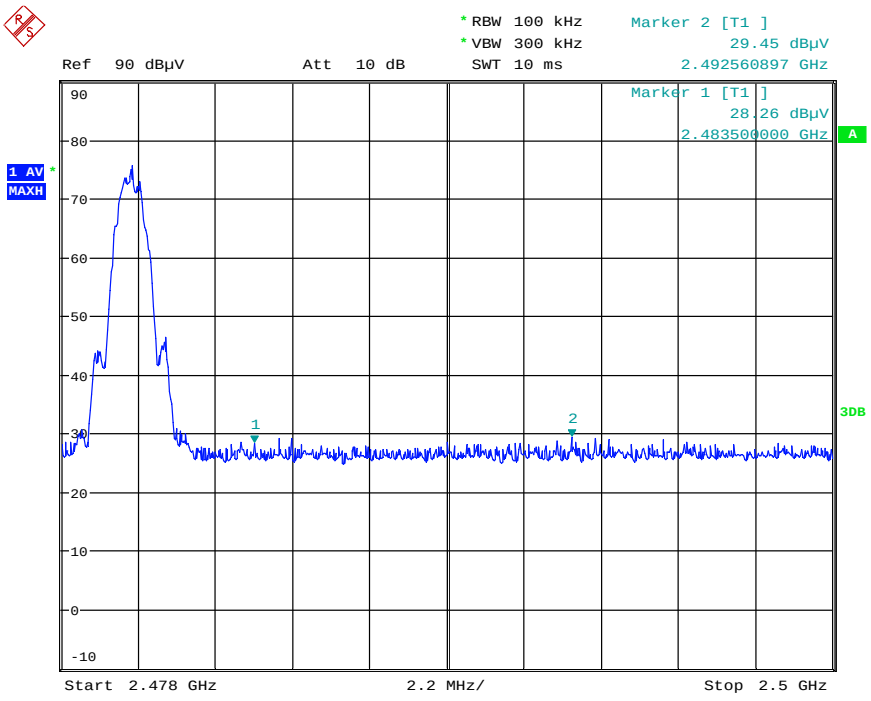

(Channel = 0 PK)




(Channel = 0 AV)




(Channel = 39 PK)

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(Channel = 39 AV)

## 5.7 Conducted Emission

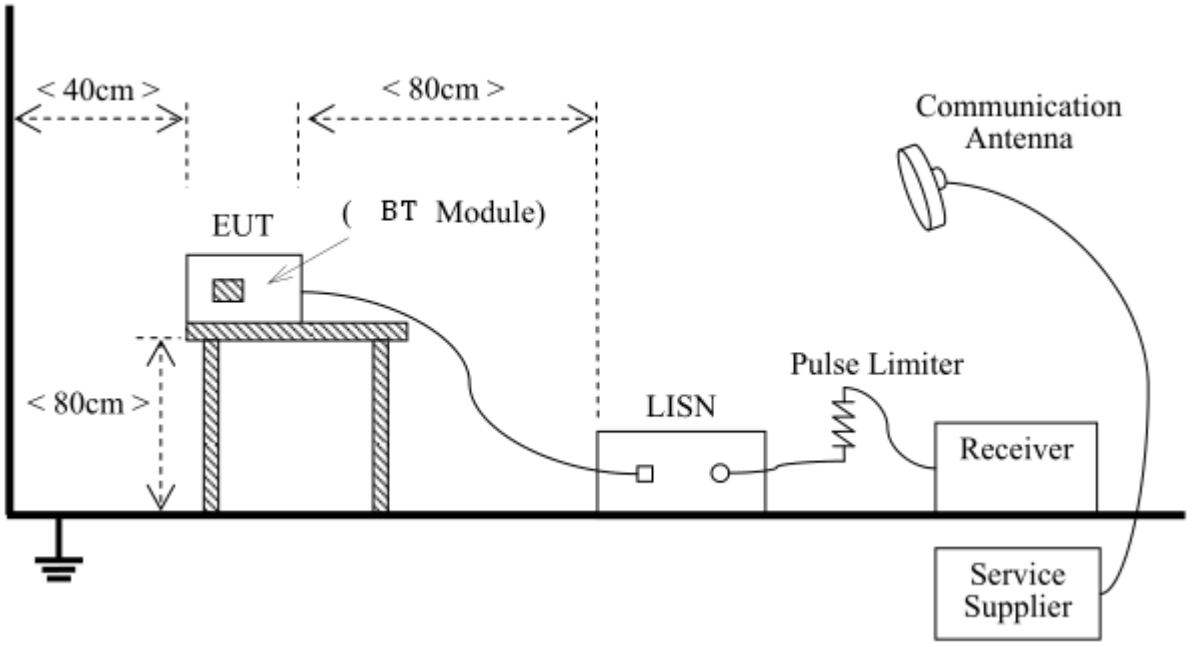
### 5.7.1 Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network(LISN).

| Frequency range (MHz) | Conducted Limit (dBμV) | |
|---|---|---|
| | Quai-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

NOTE:
(a) The lower limit shall apply at the band edges.
(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

### 5.7.2 Test Description

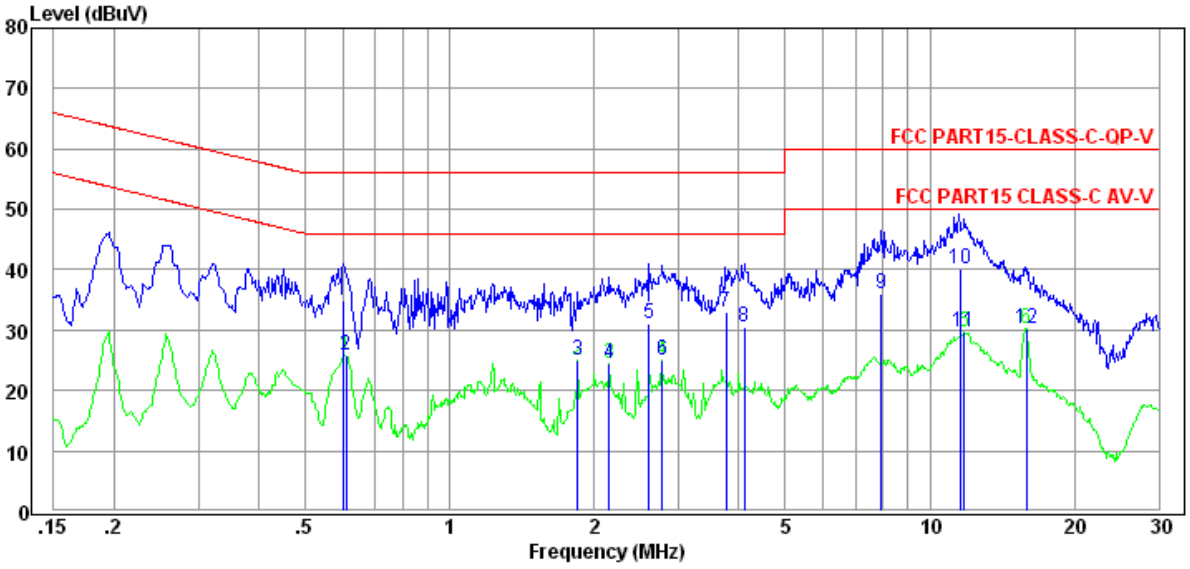



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10-2013

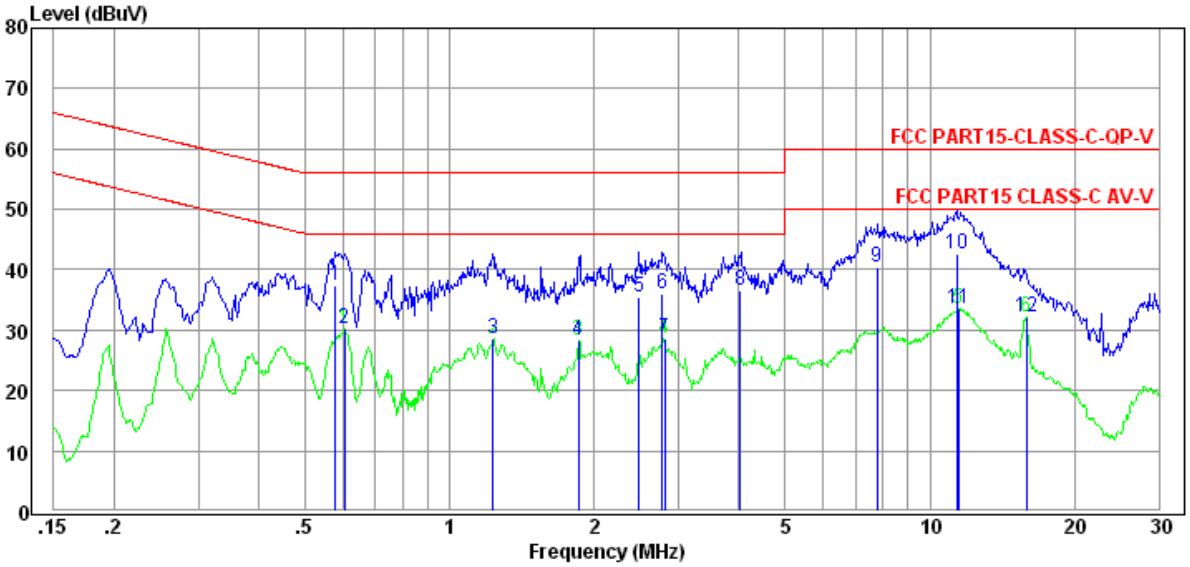
### 5.7.3 Test result

| Frequency (MHz) | Level (dBuV) | Limit Line (dBuV) | Margin (dB) | Phase line | Detector |
|---|---|---|---|---|---|
| 0.60 | 34.84 | 56.00 | 21.16 | L | QP |
| 0.61 | 25.83 | 56.00 | 30.17 | L | Average |
| 1.85 | 24.93 | 56.00 | 31.07 | L | Average |
| 2.15 | 24.47 | 56.00 | 31.53 | L | Average |
| 2.61 | 31.06 | 56.00 | 24.94 | L | QP |
| 2.77 | 25.10 | 56.00 | 30.90 | L | Average |
| 3.76 | 32.89 | 56.00 | 23.11 | L | QP |
| 4.12 | 30.46 | 56.00 | 25.54 | L | QP |
| 7.92 | 36.03 | 60.00 | 23.97 | L | QP |
| 11.54 | 40.23 | 60.00 | 19.77 | L | QP |
| 0.58 | 37.34 | 56.00 | 18.66 | N | QP |
| 0.61 | 30.12 | 46.00 | 15.88 | N | Average |
| 1.23 | 28.53 | 46.00 | 17.47 | N | Average |
| 1.86 | 28.24 | 46.00 | 17.76 | N | Average |
| 2.49 | 35.50 | 56.00 | 20.50 | N | QP |
| 2.78 | 36.05 | 56.00 | 19.95 | N | QP |
| 2.81 | 28.65 | 46.00 | 17.35 | N | Average |
| 4.04 | 36.56 | 56.00 | 19.44 | N | QP |
| 7.77 | 40.28 | 60.00 | 19.72 | N | QP |
| 11.42 | 42.55 | 60.00 | 17.45 | N | QP |
| 11.45 | 33.54 | 50.00 | 16.46 | N | Average |
| 15.92 | 32.28 | 50.00 | 17.72 | N | Average |

### 5.7.4 Test Plot




L Line


Level (dBuV)
80
70
60
50
40
30
20
10
0
.15
.2
.5
1
2
5
10
20
30
Frequency (MHz)
FCC PART15-CLASS-C-QP-V
FCC PART15 CLASS-C AV-V
1
2
3
4
5
6
7
8
9
10
11
12

N Line

## 5.8 Radiated Emission

### 5.8.1 Requirement

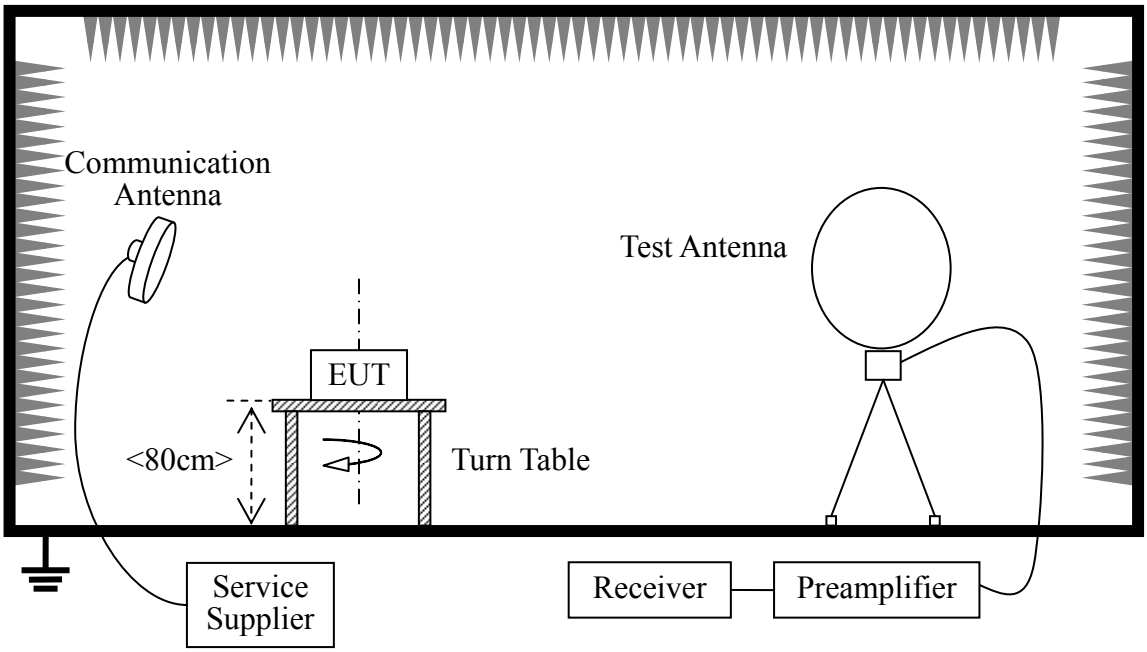
According to FCC section 15.247(c), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

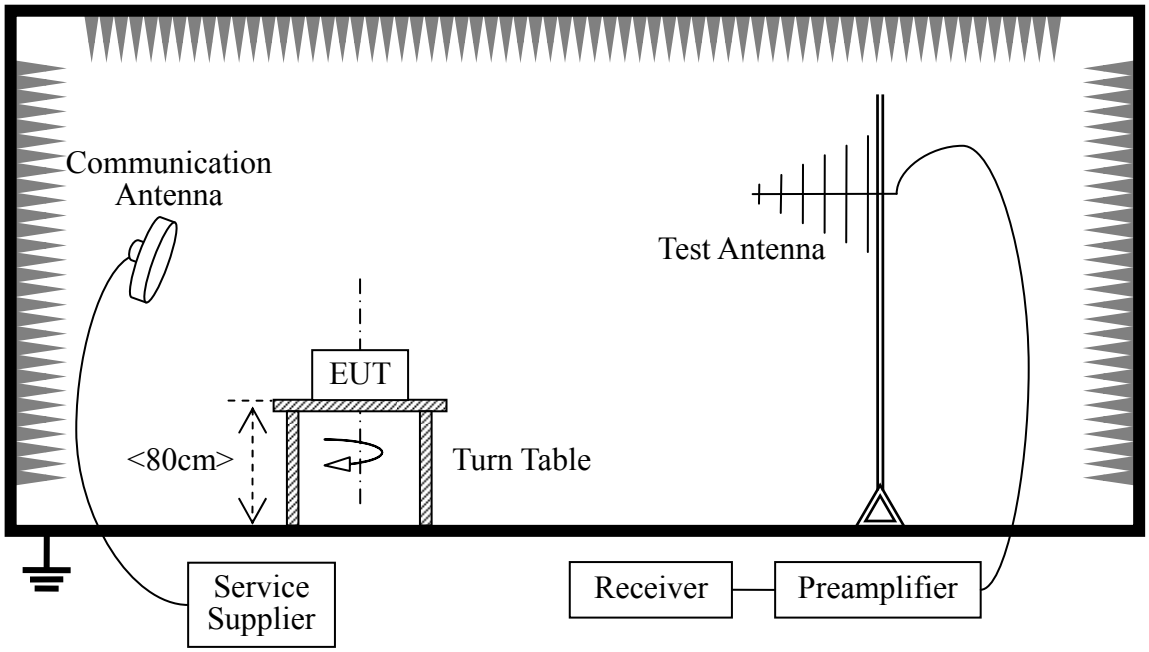
| Frequency (MHz) | Field Strength (μV/m) | Measurement Distance (m) | Limit(dBμV/m) | Detector |
|---|---|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 | / | / |
| 0.490-1.705 | 24000/F(kHz) | 30 | / | / |
| 1.705-30 | 30 | 30 | / | / |
| 30 - 88 | 100 | 3 | 40 | QP |
| 88 - 216 | 150 | 3 | 43.5 | QP |
| 216 - 960 | 200 | 3 | 46 | QP |
| 960 - 1000 | 500 | 3 | 54 | QP |
| Above 1000 | 500 | 3 | 54 | AV |

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

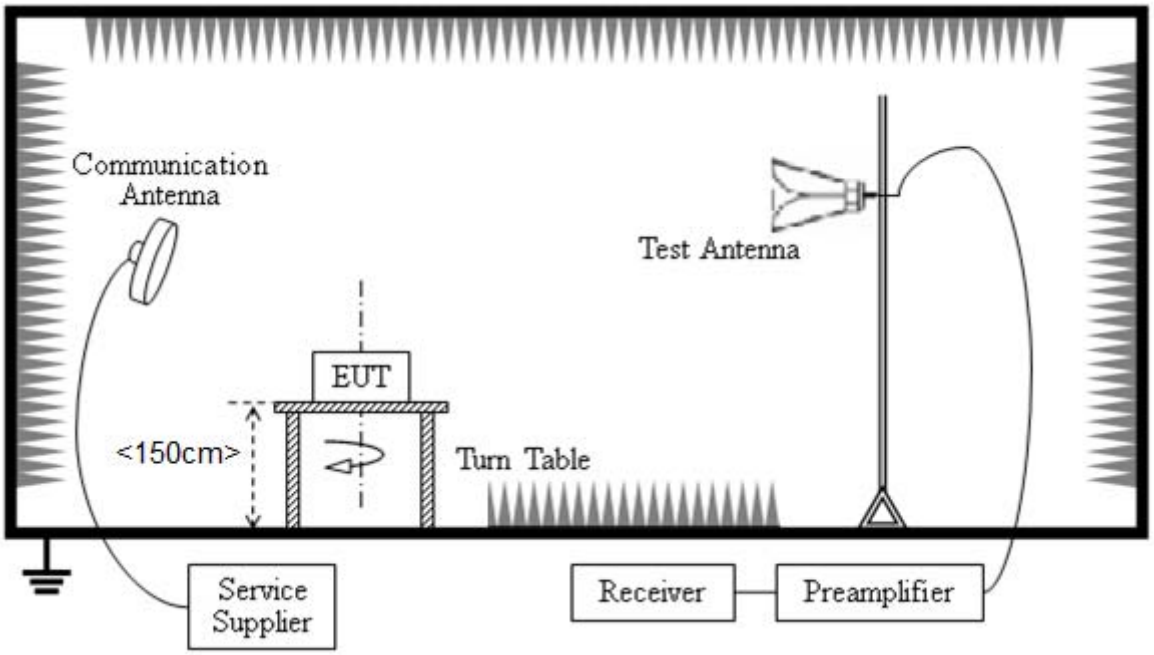
### 5.8.2 Test setup




Radiated Emissions Below 30MHz




Radiated Emissions 30-1000MHz




Radiated Emissions above 1000MHz

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10-2013. Below 1GHz, the EUT was set-up on insulator 80cm above the Ground Plane. Above 1GHz, the EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10

The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the Bluetooth Module is activated and controlled by the Bluetooth Service Supplier (SS) via a Common Antenna, and is set to

operate under hopping-on test mode transmitting at maximum power.

For the Test Antenna: In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength, the azimuth range of turntable was 0o to 360o, the receive antenna has two polarizations horizontal and vertical. When doing measurements above 1GHz, the EUT was placed within the 3dB beam width range of the horn antenna, and the EUT was tested in 3 orthogonal positions as recommended in ANSI C63.10 for Radiated Emissions and the worst-case data was presented.

### 5.8.3 Test Result

A. Test Result for 9kHz~30MHz

| Frequency (MHz) | Level (dBuV) | Over Limit (dB) | Limit Line (dBuV) | Remark |
|---|---|---|---|---|
| -- | -- | 20 | -- | See Note |

*Note:*

*a) The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.*

*b) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);*

*c) Limit line = specific limits (dBuV) + distance extrapolation factor.*

B. Test Result for above 30MHz ~ 10th Harmonic

| Frequency (MHz) | Level (dBuV) | Limit Line (dBuV) | Margin (dB) | Antenna Polarization | Result |
|---|---|---|---|---|---|
| 104.90 | 19.96 | 43.50 | 23.54 | Horizontal | PASS |
| 223.73 | 19.47 | 46.00 | 26.53 | Horizontal | PASS |
| 348.03 | 23.67 | 46.00 | 22.33 | Horizontal | PASS |
| 1271.37 | 35.51 | 54.00 | 18.49 | Horizontal | PASS |
| 1989.80 | 35.88 | 54.00 | 18.12 | Horizontal | PASS |
| 4804.64 | 38.02 | 54.00 | 15.98 | Horizontal | PASS |
| 56.79 | 19.71 | 40.00 | 20.29 | Vertical | PASS |
| 100.23 | 19.78 | 43.50 | 23.72 | Vertical | PASS |
| 203.52 | 18.48 | 43.50 | 25.02 | Vertical | PASS |
| 1327.24 | 39.88 | 54.00 | 54.00 | Vertical | PASS |
| 1443.85 | 40.44 | 54.00 | 54.00 | Vertical | PASS |
| 1607.72 | 37.42 | 54.00 | 54.00 | Vertical | PASS |
| 1996.95 | 42.58 | 54.00 | 54.00 | Vertical | PASS |
| 4804.64 | 45.46 | 54.00 | 54.00 | Vertical | PASS |

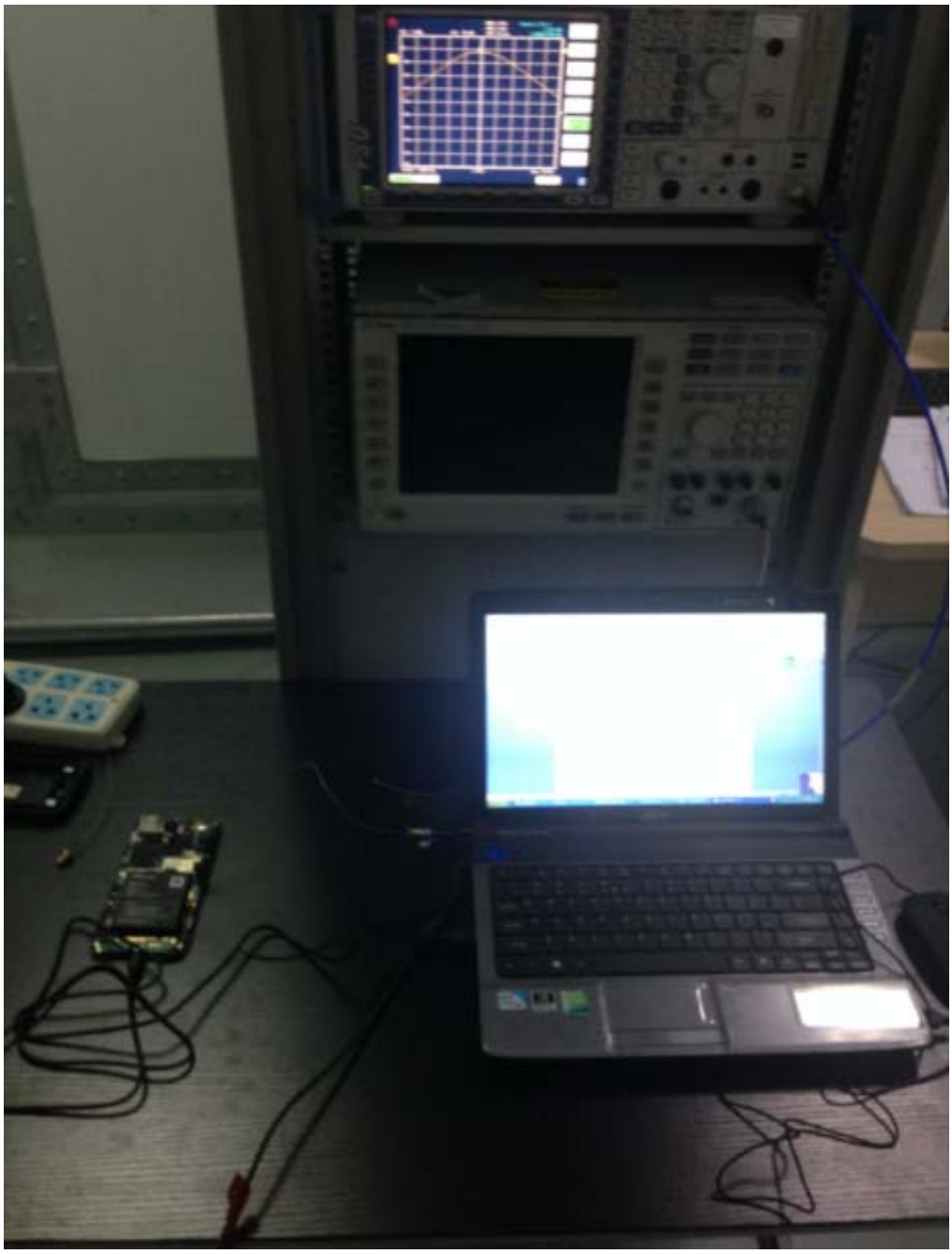
*Note:*

*The worst case (Channel 0:2402MHz) is recorded in the report.*

# Annex A Photos of the EUT

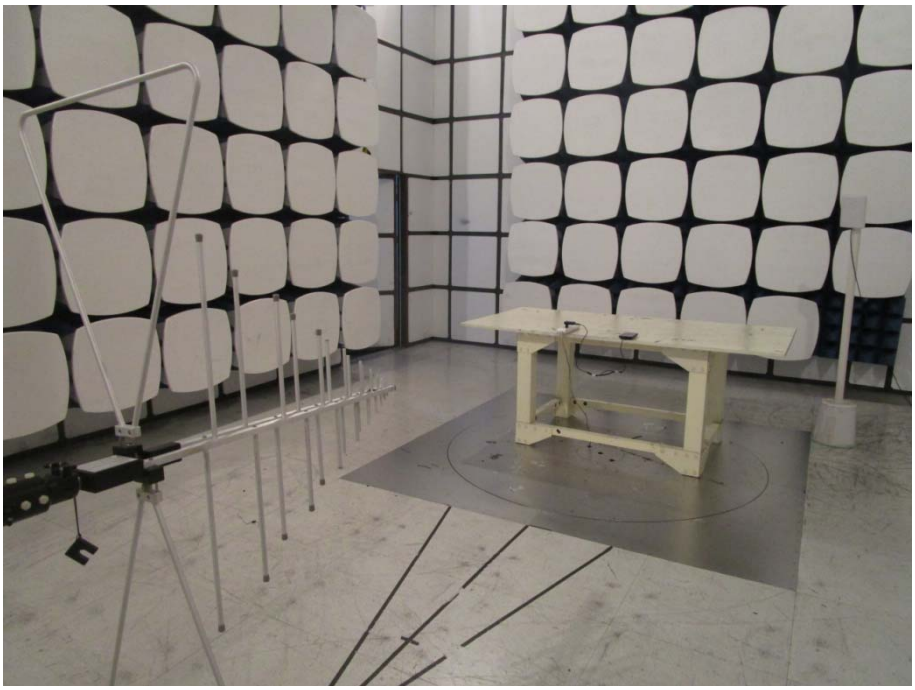
# Annex B Photos of Setup

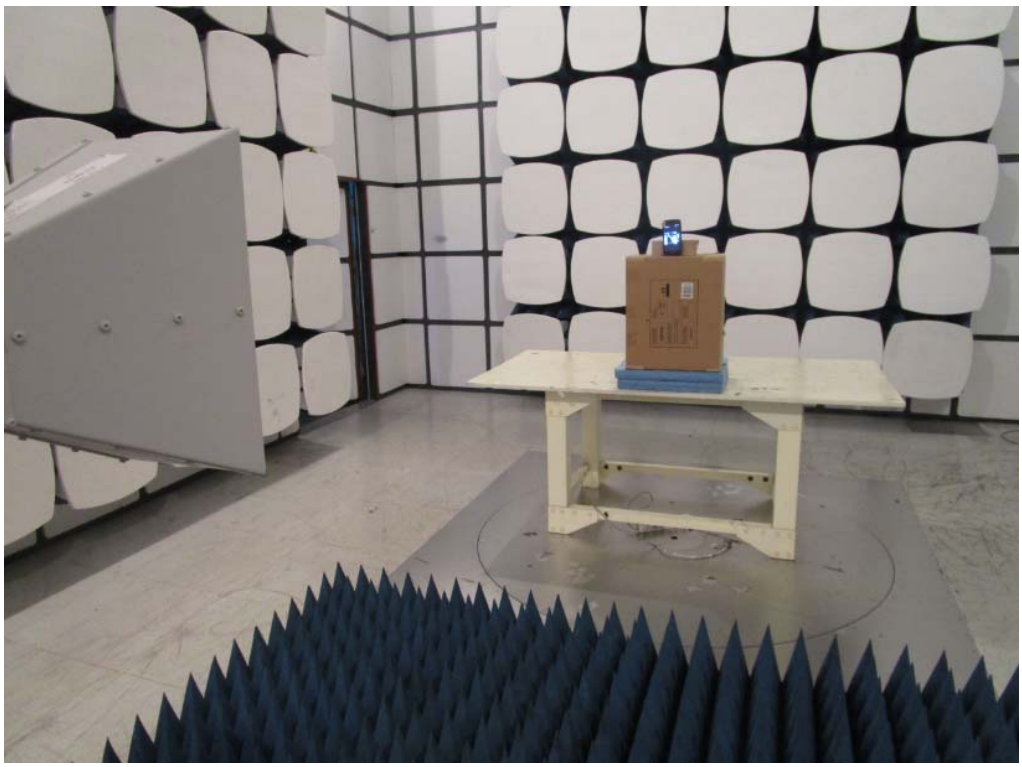
1. RF



2. Conducted Emission

3. Radiated Emission





** END OF REPORT **