

## RF Test Report

Applicant : InnoComm Mobile Technology Corporation  
Product Type : Wireless Audio Module  
Trade Name : InnoComm  
Model Number : WB15  
Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
ANSI C63.10:2013  
Received Date : Jul. 08, 2020  
Test Period : Jul. 21 ~ Oct. 21, 2020  
Issued Date : Nov. 10, 2020

### Issued by

A Test Lab Techno Corp.  
No. 140-1, Changan Street, Bade District,  
Taoyuan City 33465, Taiwan (R.O.C.)  
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330  
Frequency Range : 9 kHz to 40 GHz  
Test Firm MRA designation number: TW0010

#### Note:

- 1.The test results are valid only for samples provided by customers and under the test conditions described in this report.
- 2.This report shall not be reproduced except in full, without the written approval of A Test Lab Technology Corporation.
- 3.The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.



### Revision History

Rev.	Issued Date	Revisions	Revised By
00	Oct. 30, 2020	Initial Issue	Tobey Cheng
01	Nov. 10, 2020	Update chapter 3.3 (P.8) Update chapter 5 (P.23)	Emma Chao

## Verification of Compliance

Applicant : InnoComm Mobile Technology Corporation  
Product Type : Wireless Audio Module  
Trade Name : InnoComm  
Model Number : WB15  
FCC ID : YAIWB15  
EUT Rated Voltage : DC 5 V  
Test Voltage : 120 Vac, 60 Hz / DC 5 V  
Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
ANSI C63.10:2013  
Test Result : Complied  
Performing Lab. : A Test Lab Techno Corp.  
No. 140-1, Changan Street, Bade District,  
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Taiwan Accreditation Foundation accreditation number: 1330  
<http://www.atl-lab.com.tw/e-index.htm>



A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Ken Yang  
(Manager) (Ken Yang)



## TABLE OF CONTENTS

<b>1</b>	<b>General Information .....</b>	<b>5</b>
1.1.	Summary of Test Result.....	5
1.2.	Measurement Uncertainty.....	5
<b>2</b>	<b>EUT Description .....</b>	<b>6</b>
<b>3</b>	<b>Test Methodology .....</b>	<b>7</b>
3.1.	Mode of Operation.....	7
3.2.	EUT Test Step.....	7
3.3.	Configuration of Test System Details .....	8
3.4.	Test Instruments .....	9
3.5.	Test Site Environment.....	10
<b>4</b>	<b>Measurement Procedure .....</b>	<b>11</b>
4.1.	AC Power Line Conducted Emission Measurement.....	11
4.2.	Radiated Emission Measurement .....	13
4.3.	Maximum Conducted Output Power Measurement.....	17
4.4.	6 dB RF Bandwidth Measurement .....	18
4.5.	Maximum Power Density Measurement .....	19
4.6.	Out of Band Conducted Emissions Measurement .....	20
4.7.	Antenna Measurement .....	20
<b>5</b>	<b>Test Results.....</b>	<b>21</b>
Annex A.	Conducted Emission .....	21
Annex B.	Conducted Test Results .....	23
Annex C.	Radiated Emission Measurement .....	30



# 1 General Information

## 1.1. Summary of Test Result

Standard	Item	Result	Remark
15.207	AC Power Conducted Emission	PASS	-----
15.247(d)	Transmitter Radiated Emissions	PASS	-----
15.247(b)(3)	Max. Output Power	PASS	-----
15.247(a)(2)	6 dB RF Bandwidth	PASS	-----
15.247(e)	Maximum Power Spectral Density	PASS	-----
15.247(d)	Out of Band Conducted Spurious Emission	PASS	-----
15.203	Antenna Requirement	PASS	-----

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 15.247 Meas Guidance v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

Decision Rule

- Uncertainty is not included.
- Uncertainty is included.

## 1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	150 kHz ~ 30 MHz	2.68
Radiated Emission	9 kHz ~ 30 MHz	2.14
	30 MHz ~ 1000 MHz	4.99
	1000 MHz ~ 18000 MHz	4.99
	18000 MHz ~ 26500 MHz	4.23
	26500 MHz ~ 40000 MHz	4.39
Conducted Output Power	0.92 dB	
RF Bandwidth	4.79 %	
Power Spectral Density	0.92 dB	



## 2 EUT Description

Applicant	InnoComm Mobile Technology Corporation 3F, No. 6, Hsin Ann Rd., Hsinchu Science Park, Hsinchu, Taiwan, R.O.C.			
Manufacturer	InnoComm Mobile Technology Corporation 3F, No. 6, Hsin Ann Rd., Hsinchu Science Park, Hsinchu, Taiwan, R.O.C.			
Product Type	Wireless Audio Module			
Trade Name	InnoComm			
Model No.	WB15			
FCC ID	YAIWB15			
Hardware Version	Mozart_R003, Mozart_R004			
Difference description of Hardware Version	<p>Mozart_R004 version difference than Mozart_R003 is fine-tunes the DDR trace spacing according to the vendor's recommendations to improve its performance. The appearance and all components are same.</p> <p>After evaluation, the verification of Mozart_R003 and Mozart_R004, The result is the worst case of Mozart_R003, Therefore, only the complete test data of Mozart_R003 is displayed.</p>			
Frequency Range	2402 ~ 2480 MHz			
Modulation Type	GFSK			
Operate Temp. Range	0 ~ +55 °C			
Antenna information	Antenna	Model No.	Type	Max. Gain (dBi)
	ANT-0	N14-0808-R0A	PCB Antenna	2.09
		WA-F-LA-01-015	FPCB Antenna	2.17
Note : Antenna (Model Number: WA-F-LA-01-015) is the worst case.				
RF Output Power	0.00126 W			

### 3 Test Methodology

#### 3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit mode
Mode 2: LE, GFSK Continuous TX Mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

Note 1: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %.

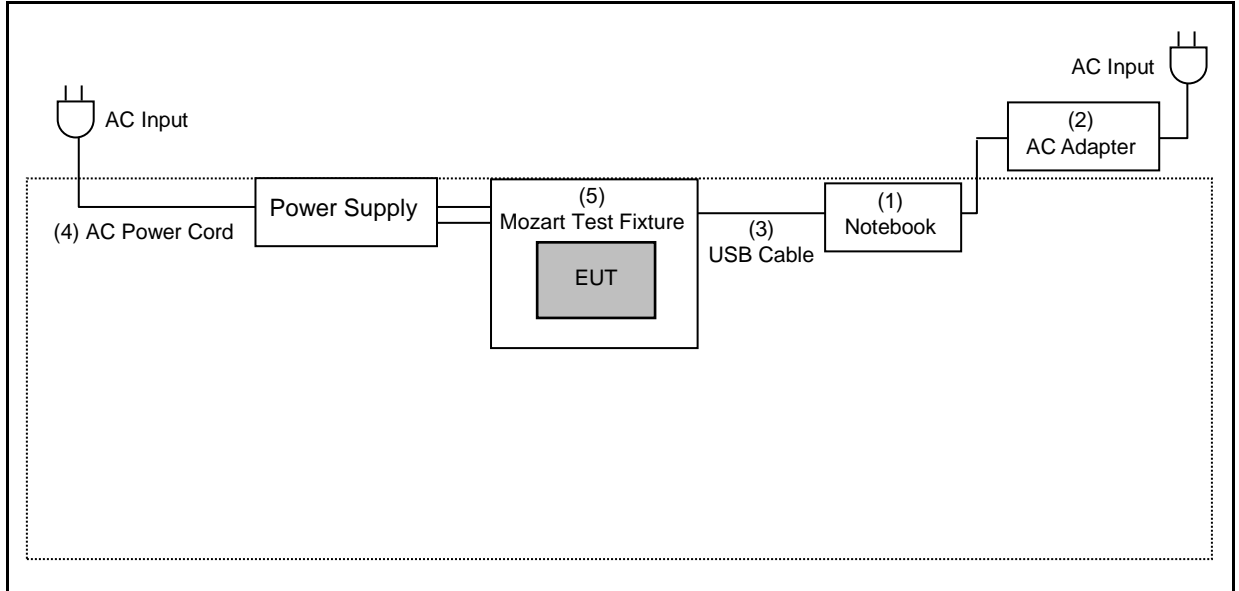
#### 3.2. EUT Test Step

1	Setup the EUT shown on "Configuration of Test System Details".
2	Turn on the power of all equipment.
3	Turn on TX function.
4	EUT run test program.

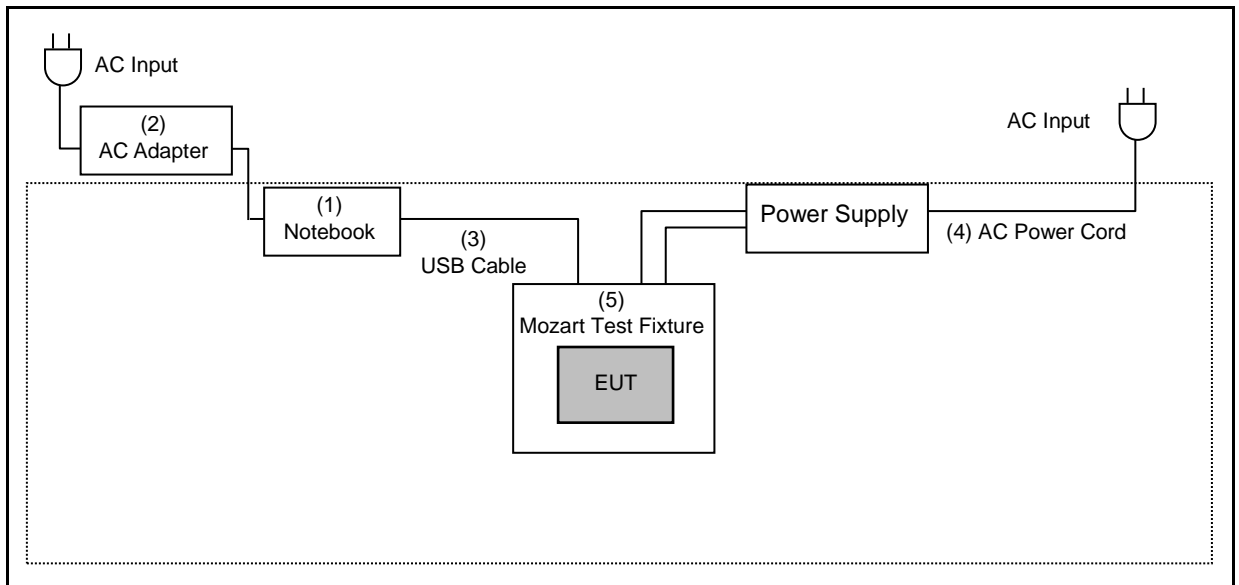
Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

### 3.3. Configuration of Test System Details

#### Conducted Emission



#### Radiated Emissions



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	DELL	LATITUDE E6440	48GBD72	---
(2)	AC Adapter	DELL	HA65NM130	---	Non-Shielded, 0.8 m
(3)	USB Cable	LG	EAD62377902	---	---
(4)	AC Power Cord	I-SHENG	---	---	---
(5)	Mozart Test Fixture	InnoComm	Mozart EVB	---	---





### 3.4. Test Instruments

For Conducted Emission

Test Period: Jul. 28 ~ Sep. 09, 2020

Testing Engineer: Louis Shen, Andy Lu

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/25/2020	1 year
LISN	R&S	ENV216	101040	03/23/2020	1 year
LISN	R&S	ENV216	101041	04/06/2020	1 year
RF Cable	Woken	00100D1380194M	TE-02-03	05/26/2020	1 year
Power Supply	KEITHLEY	2303	4045290	02/11/2020	1 year

For Radiated Emissions

Test Period: Jul. 21 ~ Oct. 21, 2020

Testing Engineer: Marc Yeh

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	01/13/2020	1 year
Pre Amplifier (1~26.5 GHz)	EMCI	EMC012645SE	980289	01/15/2020	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	01/15/2020	1 year
Broadband Antenna	Schwarzbeck	VULB9168	416	10/23/2019	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/22/2019 08/16/2020	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	03/27/2020	1 year
RF Cable	EMCI	EMC104-N-N-6000	TE01-1	02/20/2020	1 year
Microwave Cable	EMCI	EMC104-SM- SM-13000	170814	10/29/2019	1 year
Microwave Cable	EMCI	EMC102-KM- KM-14000	151001	02/20/2020	1 year
Power Supply	KEITHLEY	2303	4045290	02/17/2020	1 year

Note: N.C.R. = No Calibration Request.



For Conducted

Test Period: Jul. 27 ~ Oct. 14, 2020

Testing Engineer: Peter Shui, Louis Shen

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Power Sensor	Anritsu	MA2411B	1126022	09/02/2019	1 year
				09/01/2020	
Power Meter	Anritsu	ML2495A	1135009	09/02/2019	1 year
				09/01/2020	
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/18/2019	1 year
				09/24/2020	
Bluetooth Tester	R&S	CBT	100350	03/27/2019	2 years
Power Supply	KEITHLEY	2303	4045290	02/11/2020	1 year

Note: N.C.R. = No Calibration Request.

### 3.5. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75

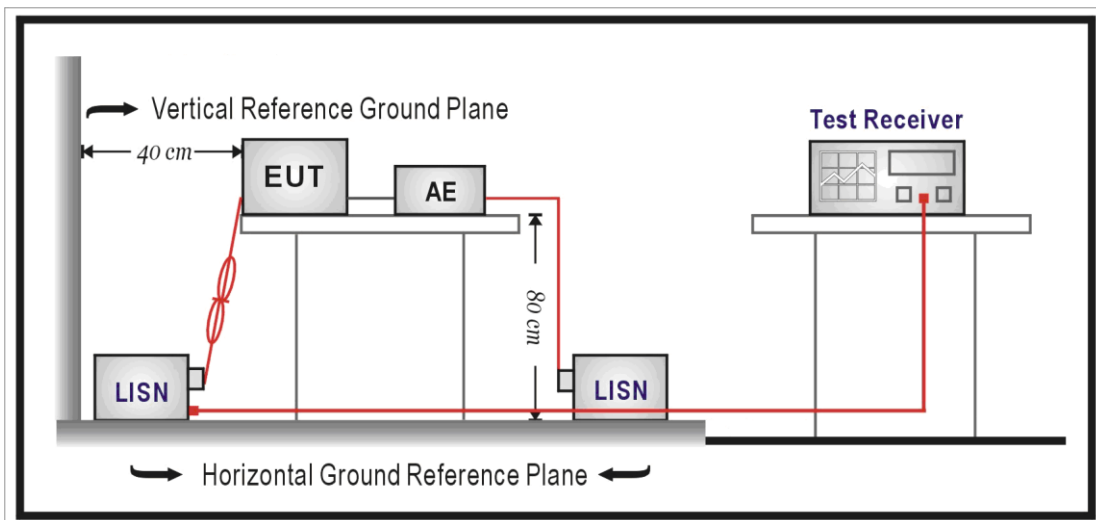
## 4 Measurement Procedure

### 4.1. AC Power Line Conducted Emission Measurement

#### ■ Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

#### ■ Test Setup



#### ■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a  $50 \Omega // 50 \mu\text{H}$  coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a  $50 \Omega // 50 \mu\text{H}$  coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50  $\Omega$  ports of the LISN shall be resistively terminated into 50  $\Omega$  loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

## 4.2. Radiated Emission Measurement

### ■ Limit

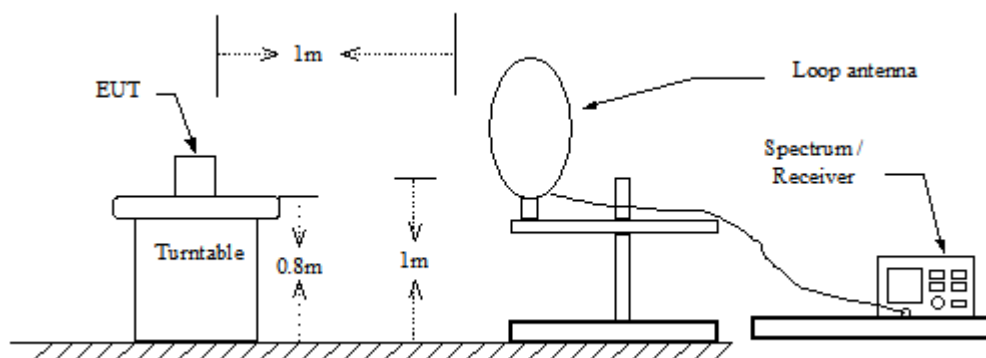
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu\text{V}/\text{m}$ at meter)	Measurement Distance (meters)
0.009 – 0.490	$2400 / F$ (kHz)	300
0.490 – 1.705	$24000 / F$ (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

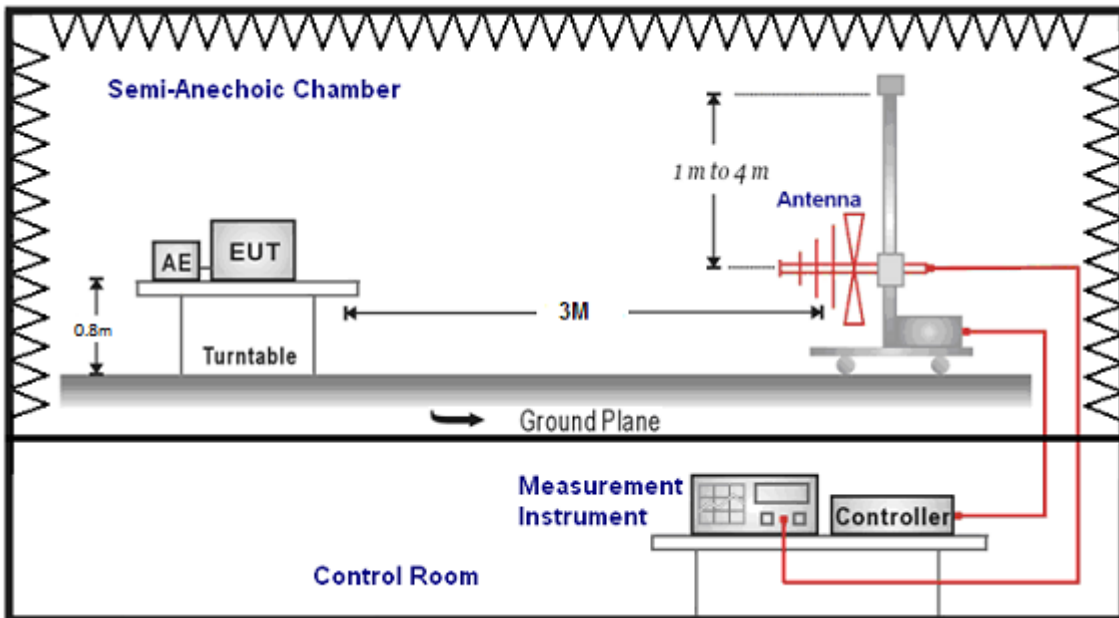
\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

### ■ Setup

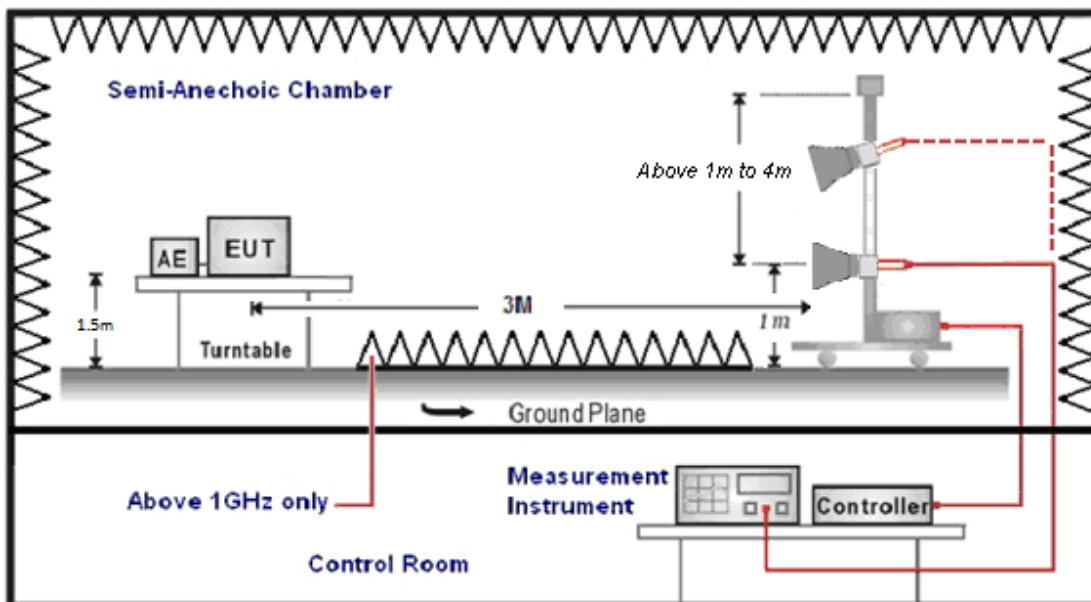
9 kHz ~ 30 MHz



Below 1 GHz



Above 1 GHz



## ■ Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle  $>0.98$  /  $1/T$  for average measurements when Duty cycle  $<0.98$ . A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna was used in frequencies 1 –26.5 GHz at a distance of 3 meter. The antenna at an angle toward the source of the emission. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter ( $\mu\text{V}/\text{m}$ ).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter ( $\mu\text{V}/\text{m}$ ).



The actual field intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30 dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Data of measurement within this frequency range without mark in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

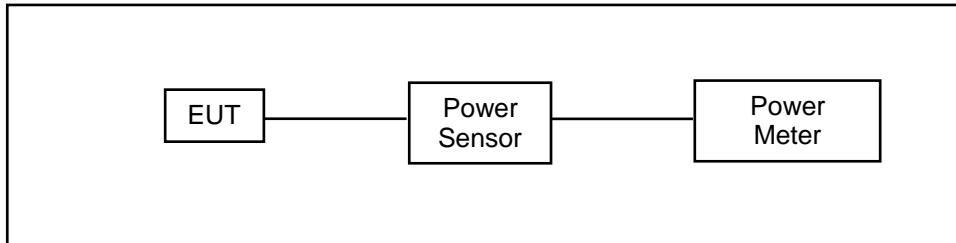


### 4.3. Maximum Conducted Output Power Measurement

#### ■ Limit

For systems using digital modulation in the 2400-2483.5 MHz, the limit for peak output power is 30 dBm.

#### ■ Test Setup



#### ■ Test Procedure

The testing follows the Measurement Procedure of ANSI C63.10:2013 section 11.9.2.3.2 Method AVGPM.

The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor..

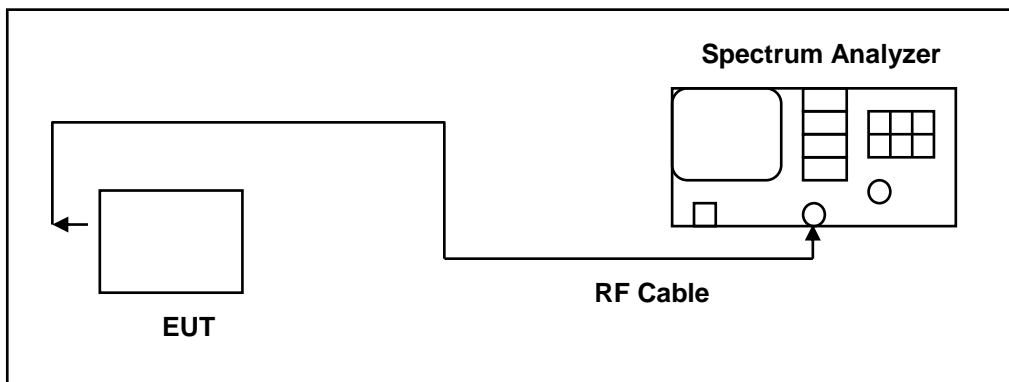
#### 4.4. 6 dB RF Bandwidth Measurement

■ **Limit**

6 dB RF Bandwidth: Systems using digital modulation techniques may operate in the 2400–2483.5 MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

99 % Occupied Bandwidth: N/A

■ **Test Setup**



■ **Test Procedure**

The EUT tested to DTS test procedure of ANSI C63.10-2013 section 11.8.2 option2 for compliance to FCC 47CFR 15.247 requirements.

6 dB RF Bandwidth: The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

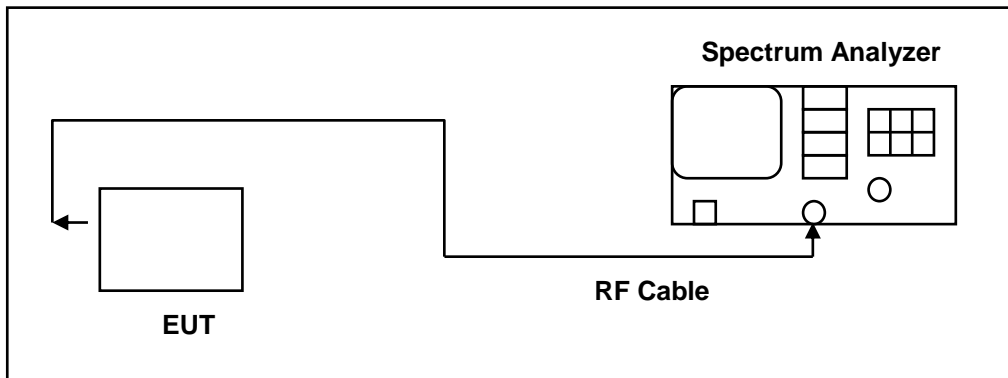
The test was performed at 3 channels (Channel low, middle, high)

## 4.5. Maximum Power Density Measurement

### ■ Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### ■ Test Setup



### ■ Test Procedure

The EUT tested to DTS test procedure of ANSI C63.10:2013 section 11.10.2 Method PKPSD.

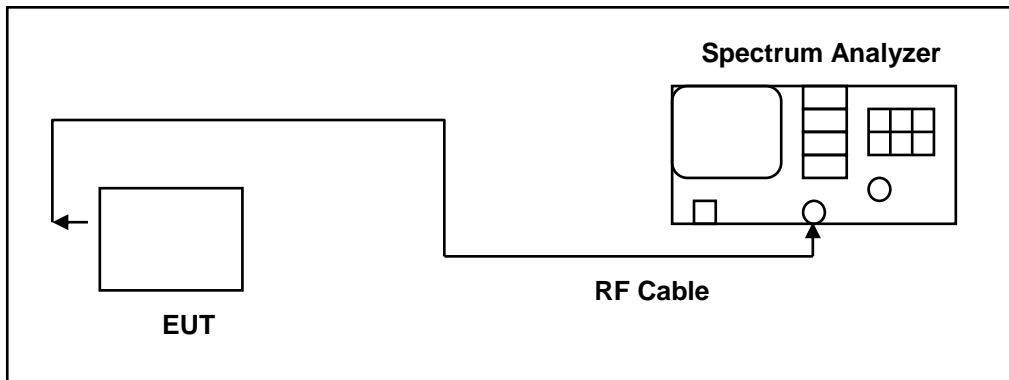
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
4. Set the VBW  $\geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

## 4.6. Out of Band Conducted Emissions Measurement

### ■ Limit

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

### ■ Test Setup



### ■ Test Procedure

In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band. The test was performed at 3 channels.

## 4.7. Antenna Measurement

### ■ Limit

For intentional device, according to 15.203, 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.

And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### ■ Antenna Connector Construction

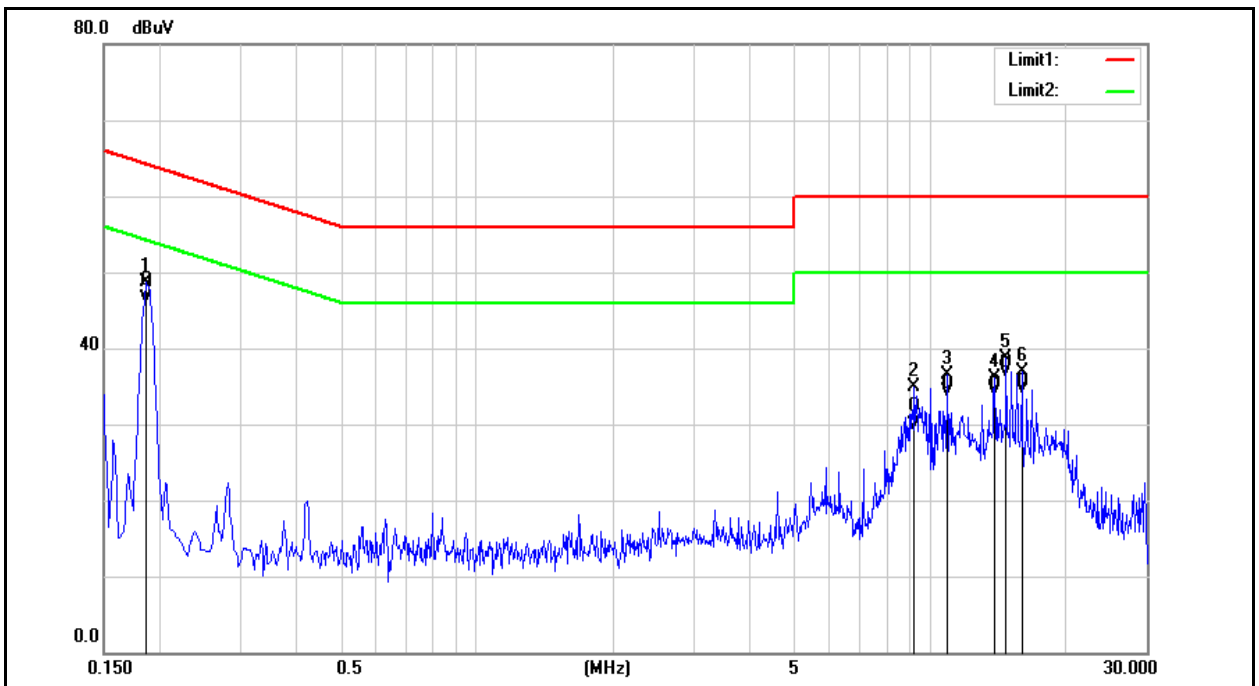
See section 2 – antenna information.



## 5 Test Results

### Annex A. Conducted Emission

Standard:	FCC Part 15.247	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1		
Description:			



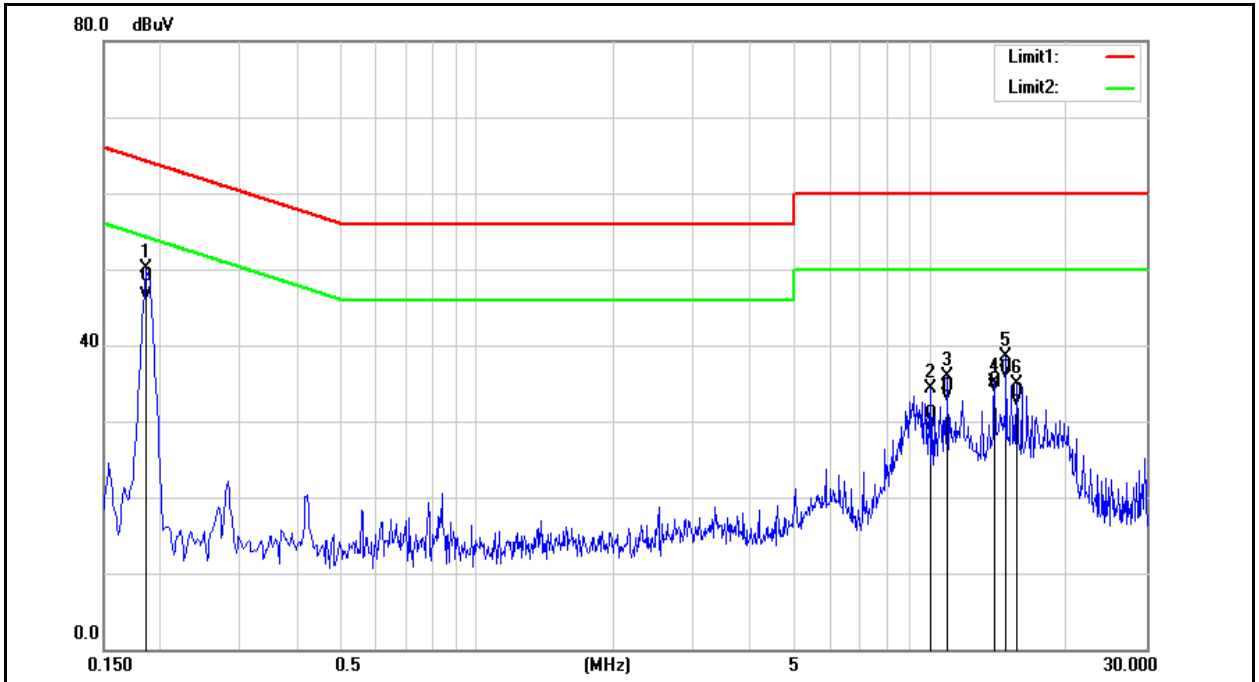
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1860	39.19	36.87	9.70	48.89	46.57	64.21	54.21	-15.32	-7.64	Pass
2	9.2300	22.41	20.04	9.87	32.28	29.91	60.00	50.00	-27.72	-20.09	Pass
3	10.9060	25.42	24.36	9.89	35.31	34.25	60.00	50.00	-24.69	-15.75	Pass
4	13.8420	25.38	24.34	9.95	35.33	34.29	60.00	50.00	-24.67	-15.71	Pass
5	14.6820	28.09	26.97	9.97	38.06	36.94	60.00	50.00	-21.94	-13.06	Pass
6	15.9380	25.43	24.71	9.99	35.42	34.70	60.00	50.00	-24.58	-15.30	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).



Standard:	FCC Part 15.247	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1		
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1860	39.43	36.91	9.69	49.12	46.60	64.21	54.21	-15.09	-7.61	Pass
2	10.0700	21.10	19.21	9.88	30.98	29.09	60.00	50.00	-29.02	-20.91	Pass
3	10.9060	24.57	23.43	9.90	34.47	33.33	60.00	50.00	-25.53	-16.67	Pass
4	13.8420	25.28	24.57	9.96	35.24	34.53	60.00	50.00	-24.76	-15.47	Pass
5	14.6820	26.99	26.23	9.98	36.97	36.21	60.00	50.00	-23.03	-13.79	Pass
6	15.5180	23.87	22.80	9.99	33.86	32.79	60.00	50.00	-26.14	-17.21	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).  
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

## Annex B. Conducted Test Results

### Maximum Conducted Output Power Measurement

Test Mode	Mode 2				
Frequency (MHz)	Average Power		Peak Power		Limit (dBm)
	(dBm)	(W)	(dBm)	(W)	
2402	0.42	0.00110	0.53	0.00113	≤ 30
2440	0.88	0.00122	<b>1.00</b>	<b>0.00126</b>	≤ 30
2480	0.52	0.00113	0.66	0.00116	≤ 30

Note: The relevant measured result has the offset with cable loss already.

### 6 dB RF Bandwidth Measurement

Test Mode	Mode 2	
Frequency (MHz)	Measurement Results (kHz)	Limit (kHz)
2402	709.300	≥ 500
2440	709.900	≥ 500
2480	712.600	≥ 500



■ Test Graphs

Mode 2	
2402 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.402000000 GHz Trig: Free Run #Atten: 30 dB AvgHld: 1/1 Radio Device: BTS</p> <p>Ref Offset 0.5 dB Ref 20.00 dBm</p> <p>Center 2.402 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>1.0862 MHz</b> Total Power 6.94 dBm</p> <p>Transmit Freq Error -97 Hz OBW Power 99.00 % x dB Bandwidth 709.3 kHz x dB -6.00 dB</p> <p>Center Freq: 2.402000000 GHz CF Step: 300.000 kHz Freq Offset: 0 Hz</p>
2440 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.440000000 GHz Trig: Free Run #Atten: 30 dB AvgHld: 1/1 Radio Device: BTS</p> <p>Ref Offset 0.5 dB Ref 20.00 dBm</p> <p>Center 2.44 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>1.0864 MHz</b> Total Power 6.88 dBm</p> <p>Transmit Freq Error 3.406 kHz OBW Power 99.00 % x dB Bandwidth 709.9 kHz x dB -6.00 dB</p> <p>Center Freq: 2.440000000 GHz CF Step: 300.000 kHz Freq Offset: 0 Hz</p>
2480 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.480000000 GHz Trig: Free Run #Atten: 30 dB AvgHld: 1/1 Radio Device: BTS</p> <p>Ref Offset 0.5 dB Ref 20.00 dBm</p> <p>Center 2.48 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>1.0868 MHz</b> Total Power 6.09 dBm</p> <p>Transmit Freq Error 8.346 kHz OBW Power 99.00 % x dB Bandwidth 712.6 kHz x dB -6.00 dB</p> <p>Center Freq: 2.480000000 GHz CF Step: 300.000 kHz Freq Offset: 0 Hz</p>





**Maximum Power Density Measurement**

Test Mode	Mode 2	
Frequency (MHz)	Measurement Results (dBm/3 kHz)	Limit (dBm/3 kHz)
2402	-13.351	≤ 8
2440	-13.528	≤ 8
2480	-14.464	≤ 8




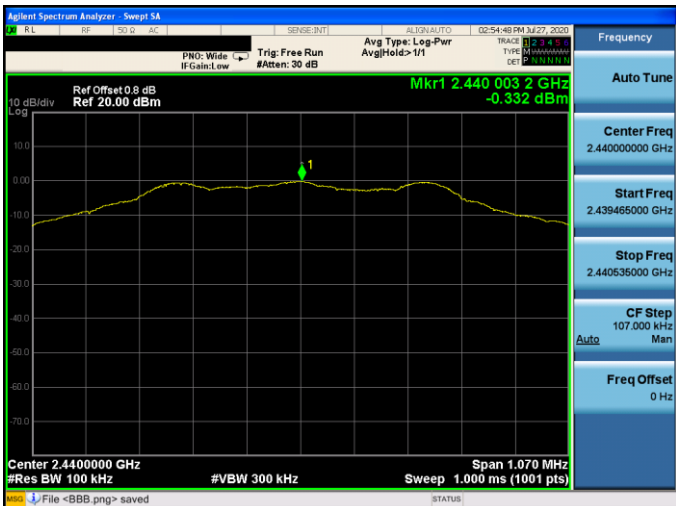
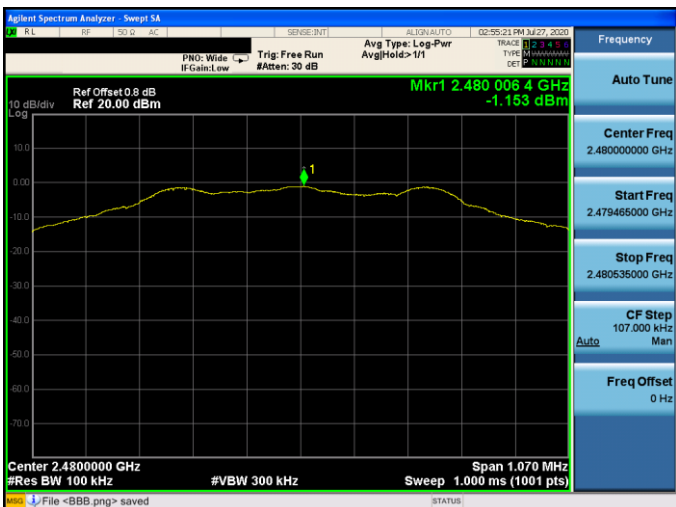
■ Test Graphs

Mode 2	
2402 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>RL RF SO D AC SENSE:INT</p> <p>PN0: Wide Trig: Free Run Avg Type: Log-Pwr</p> <p>IF Gain: Low #Atten: 30 dB #AvgHold: 1/1</p> <p>Ref Offset: 0.8 dB Ref: 20.00 dBm</p> <p>Mkr1 2.401 974 3 GHz -13.351 dBm</p> <p>Center 2.4020000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 112.9 ms (1001 pts) Span 1.070 MHz</p> <p>File &lt;BBB.png&gt; saved</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.402000000 GHz</p> <p>Start Freq 2.401465000 GHz</p> <p>Stop Freq 2.402535000 GHz</p> <p>CF Step 107.000 kHz Auto Man</p> <p>Freq Offset 0 Hz</p>
2440 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>RL RF SO D AC SENSE:INT</p> <p>PN0: Wide Trig: Free Run Avg Type: Log-Pwr</p> <p>IF Gain: Low #Atten: 30 dB #AvgHold: 1/1</p> <p>Ref Offset: 0.8 dB Ref: 20.00 dBm</p> <p>Mkr1 2.439 978 6 GHz -13.528 dBm</p> <p>Center 2.4400000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 112.9 ms (1001 pts) Span 1.070 MHz</p> <p>File name not found; D:\User_My_Documents\Instrument\My...</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.440000000 GHz</p> <p>Start Freq 2.439465000 GHz</p> <p>Stop Freq 2.440535000 GHz</p> <p>CF Step 107.000 kHz Auto Man</p> <p>Freq Offset 0 Hz</p>
2480 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>RL RF SO D AC SENSE:INT</p> <p>PN0: Wide Trig: Free Run Avg Type: Log-Pwr</p> <p>IF Gain: Low #Atten: 30 dB #AvgHold: 1/1</p> <p>Ref Offset: 0.8 dB Ref: 20.00 dBm</p> <p>Mkr1 2.479 982 9 GHz -14.464 dBm</p> <p>Center 2.4800000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 112.9 ms (1001 pts) Span 1.070 MHz</p> <p>File name not found; D:\User_My_Documents\Instrument\My...</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.480000000 GHz</p> <p>Start Freq 2.479465000 GHz</p> <p>Stop Freq 2.480535000 GHz</p> <p>CF Step 107.000 kHz Auto Man</p> <p>Freq Offset 0 Hz</p>

## Out of Band Conducted Emissions Measurement

### ■ Test Graphs

#### Reference level

Mode 2	
2402 MHz	 <p>Agilent Spectrum Analyzer - Swept SA      Ref Offset: 0.8 dB      Ref: 20.00 dBm      Mkr1 2.401 994.7 GHz      -0.221 dBm      Center 2.4020000 GHz      #Res BW 100 kHz      #VBW 300 kHz      Span 1.070 MHz      Sweep 1.000 ms (1001 pts)</p>
2440 MHz	 <p>Agilent Spectrum Analyzer - Swept SA      Ref Offset: 0.8 dB      Ref: 20.00 dBm      Mkr1 2.440 003.2 GHz      -0.332 dBm      Center 2.4400000 GHz      #Res BW 100 kHz      #VBW 300 kHz      Span 1.070 MHz      Sweep 1.000 ms (1001 pts)</p>
2480 MHz	 <p>Agilent Spectrum Analyzer - Swept SA      Ref Offset: 0.8 dB      Ref: 20.00 dBm      Mkr1 2.480 006.4 GHz      -1.153 dBm      Center 2.4800000 GHz      #Res BW 100 kHz      #VBW 300 kHz      Span 1.070 MHz      Sweep 1.000 ms (1001 pts)</p>

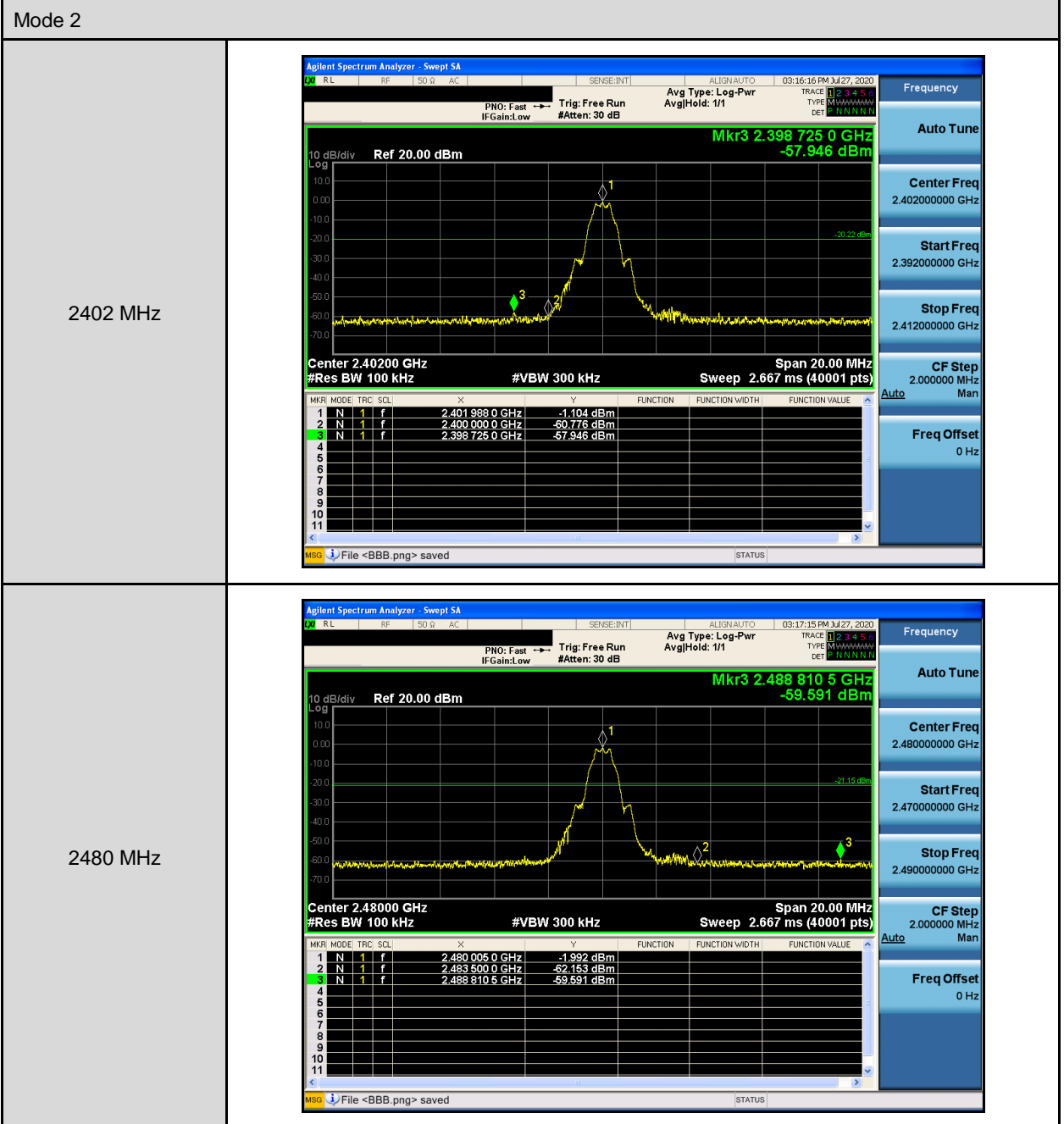


Out of Band Conducted Emissions

Mode 2																												
2402 MHz	<table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SQL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.4017 GHz</td> <td>-1.528 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>25.690 GHz</td> <td>-48.739 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4017 GHz	-1.528 dBm				2	N	1	f	25.690 GHz	-48.739 dBm			
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2	N	1	f	25.7913 GHz	-49.146 dBm																							
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MKR	MODE	TRC	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	2.4798 GHz	-3.084 dBm																							
2	N	1	f	25.5358 GHz	-48.934 dBm																							



Conducted Band Edge





## Annex C. Radiated Emission Measurement

Below 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m				
Test item:	Radiated Emission						
Frequency:	2402 MHz						
Mode:	Mode 2						
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
199.7500	44.34	-7.79	36.55	43.50	-6.95	QP	H
256.0100	44.58	-5.75	38.83	46.00	-7.17	QP	H
293.8400	43.65	-4.34	39.31	46.00	-6.69	QP	H
325.8500	41.51	-3.79	37.72	46.00	-8.28	QP	H
620.7300	35.50	2.66	38.16	46.00	-7.84	QP	H
777.8700	31.34	5.55	36.89	46.00	-9.11	QP	H
228.8500	45.03	-7.01	38.02	46.00	-7.98	QP	V
306.4500	43.52	-4.09	39.43	46.00	-6.57	QP	V
453.8900	40.08	-0.66	39.42	46.00	-6.58	QP	V
491.7200	39.26	-0.24	39.02	46.00	-6.98	QP	V
533.4300	38.87	0.65	39.52	46.00	-6.48	QP	V
788.5400	33.55	5.68	39.23	46.00	-6.77	QP	V

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example:  $36.55 = -7.79 + 44.34$

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

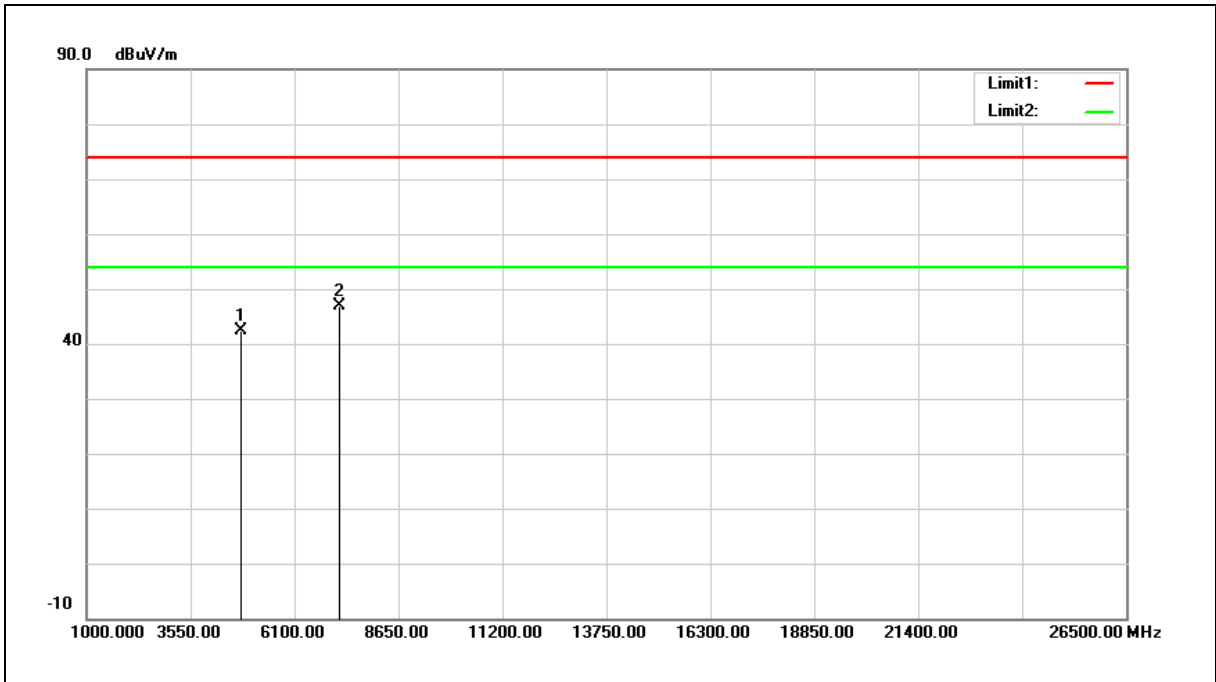
3.When the peak results are less than average limit, so not need to evaluate the average.



**Harmonic**

Above 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	51.14	-8.66	42.48	74.00	-31.52	peak
2	7206.000	48.06	-1.20	46.86	74.00	-27.14	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

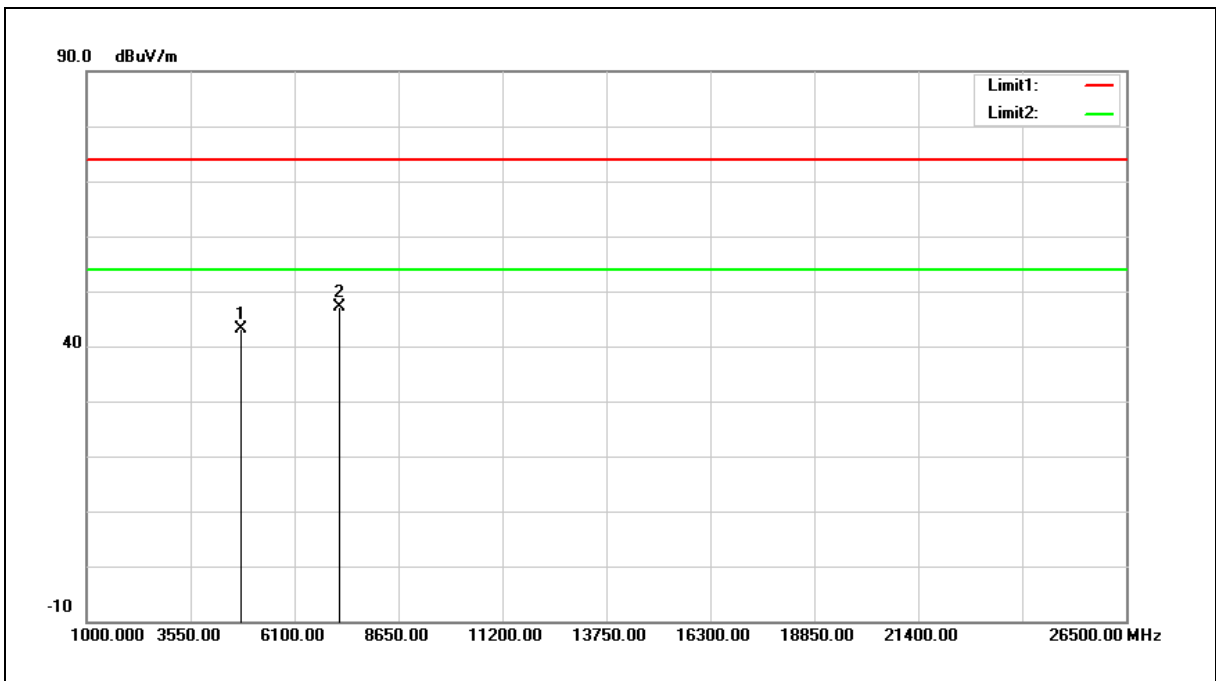
Example: 42.48 = -8.66 + 51.14

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	51.71	-8.66	43.05	74.00	-30.95	peak
2	7206.000	48.37	-1.20	47.17	74.00	-26.83	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example:  $43.05 = -8.66 + 51.71$

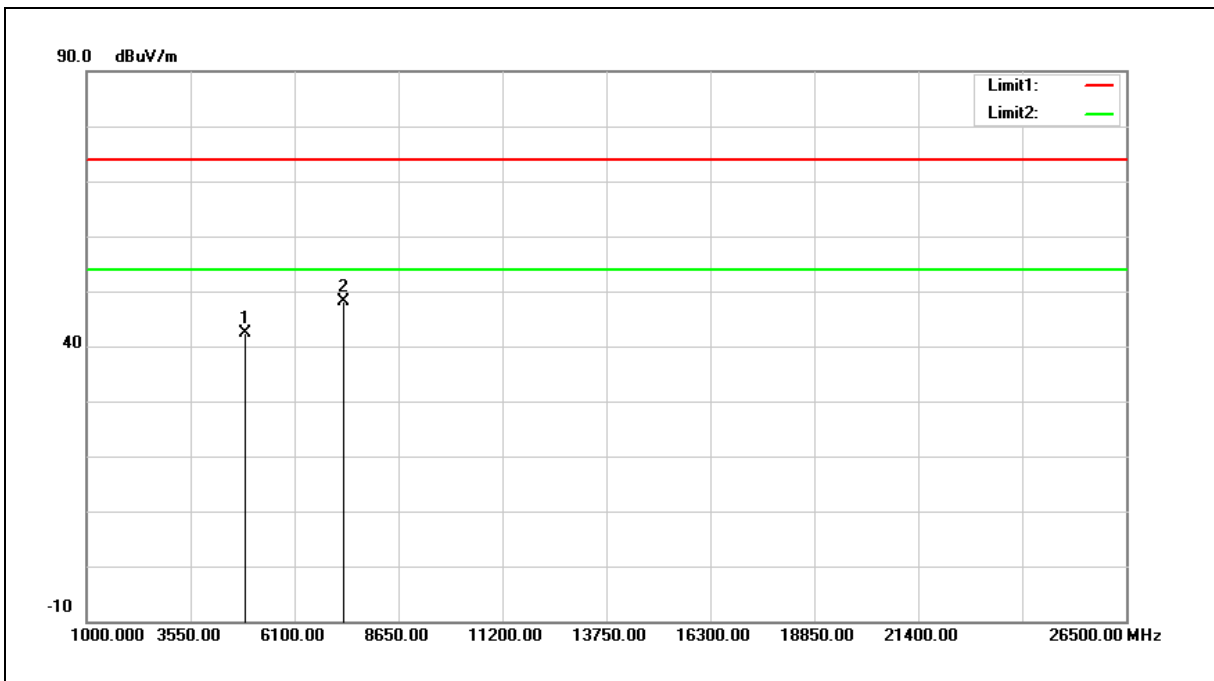
2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2440 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

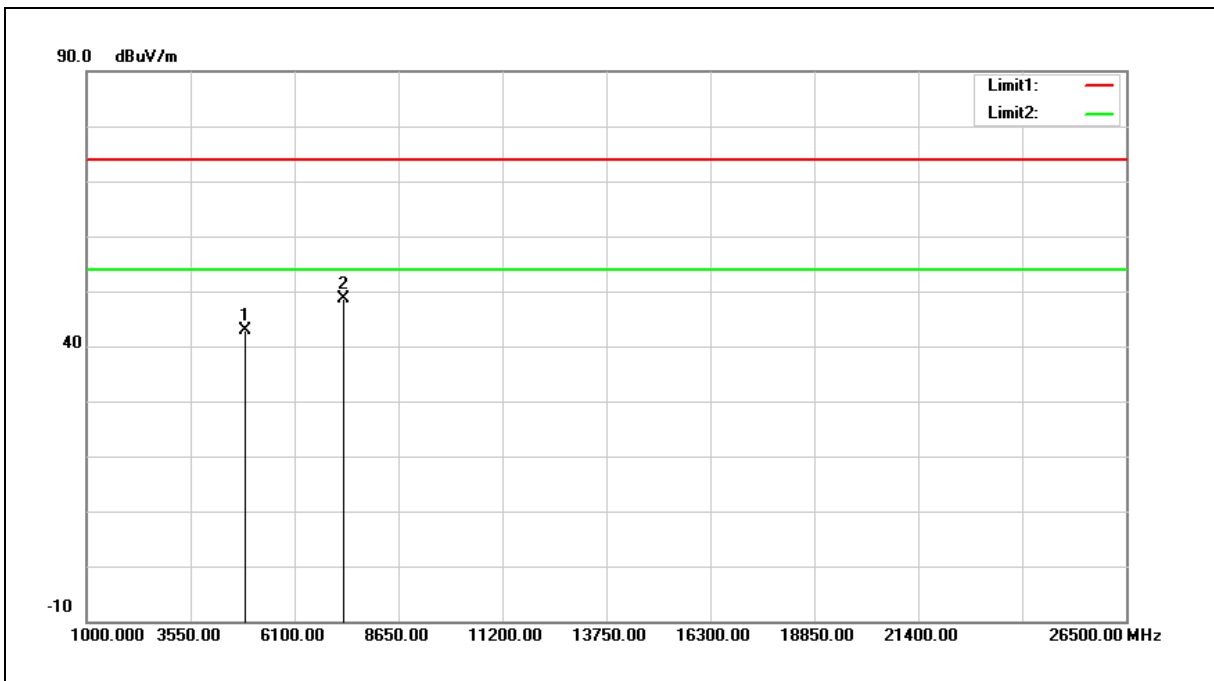


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	50.84	-8.45	42.39	74.00	-31.61	peak
2	7320.000	48.84	-0.69	48.15	74.00	-25.85	peak

- Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).  
 2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).  
 3. When the peak results are less than average limit, so not need to evaluate the average.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2440 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		

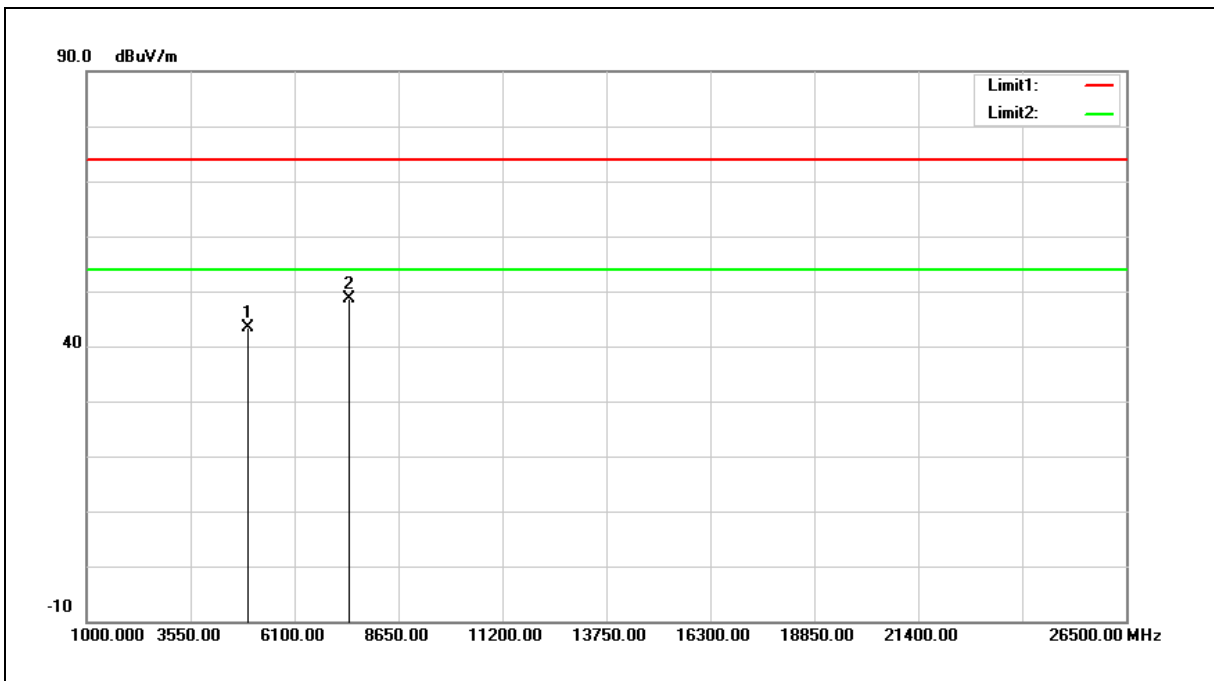


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	51.30	-8.45	42.85	74.00	-31.15	peak
2	7320.000	49.37	-0.69	48.68	74.00	-25.32	peak

- Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).  
 2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).  
 3. When the peak results are less than average limit, so not need to evaluate the average.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

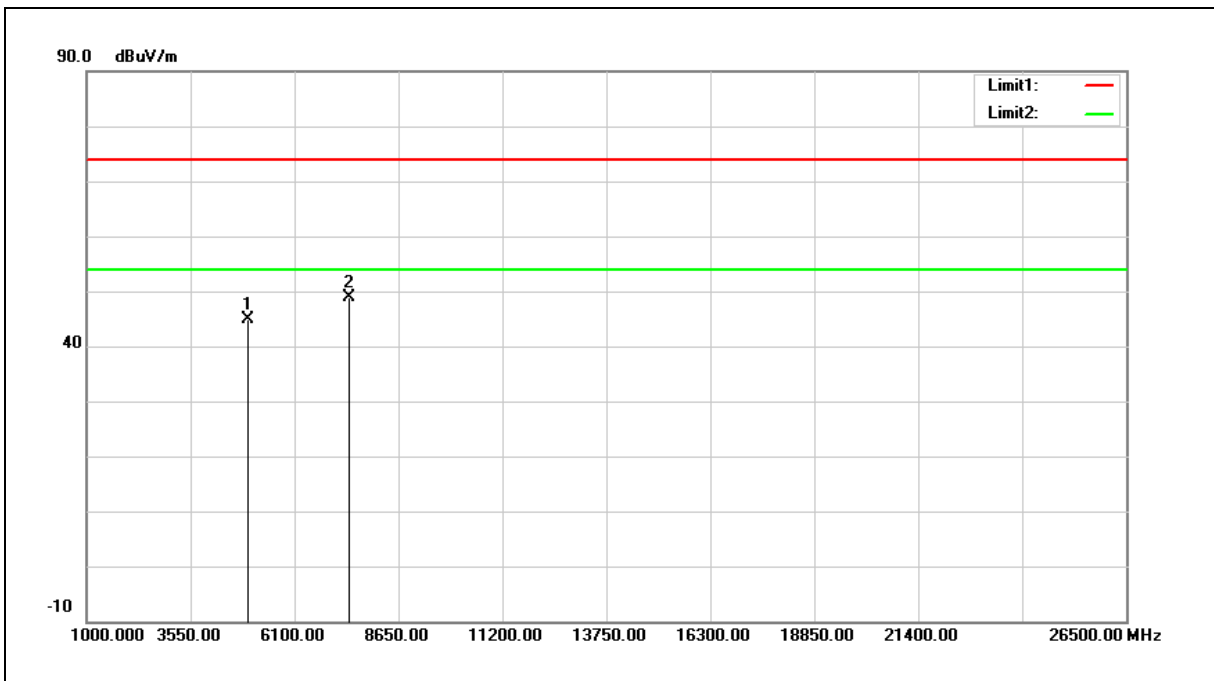


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	51.53	-8.26	43.27	74.00	-30.73	peak
2	7440.000	48.72	-0.14	48.58	74.00	-25.42	peak

- Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).  
 2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).  
 3. When the peak results are less than average limit, so not need to evaluate the average.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		

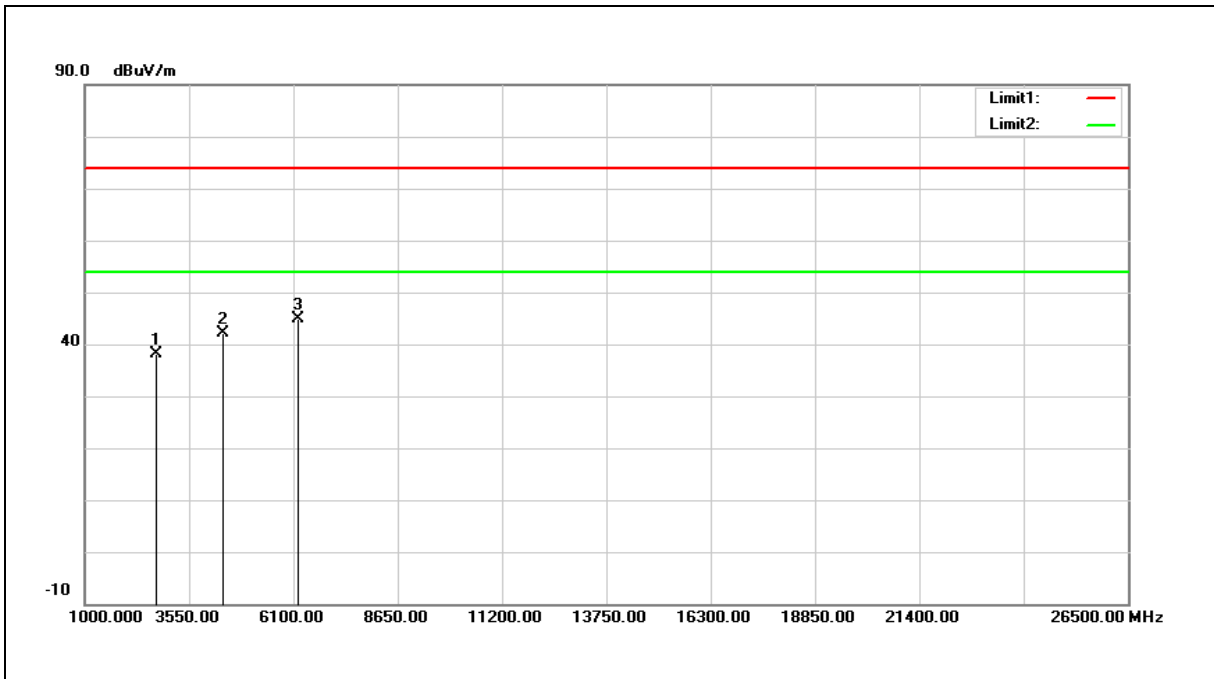


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	53.13	-8.26	44.87	74.00	-29.13	peak
2	7440.000	48.90	-0.14	48.76	74.00	-25.24	peak

- Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).  
 2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).  
 3. When the peak results are less than average limit, so not need to evaluate the average.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	Simultaneous Transmitting		
Mode:	(Bluetooth + WLAN 2.4 GHz)		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2751.000	51.30	-13.22	38.08	74.00	-35.92	peak
2	4366.000	51.69	-9.65	42.04	74.00	-31.96	peak
3	6185.000	49.77	-4.88	44.89	74.00	-29.11	peak

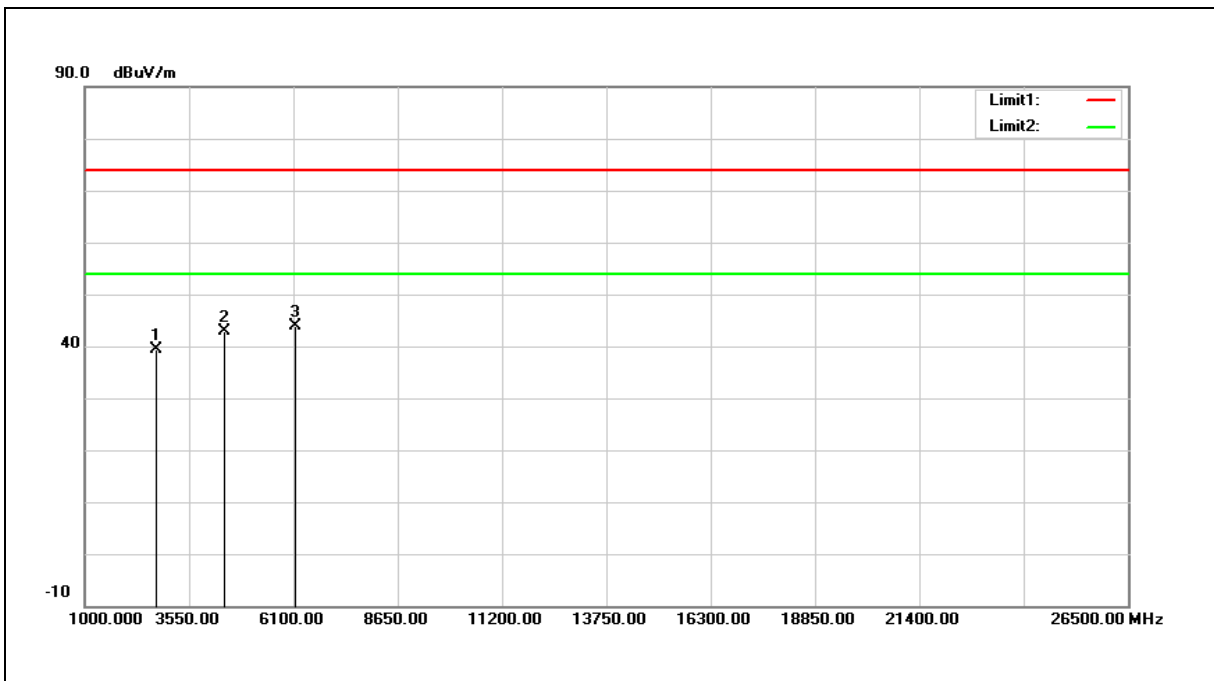
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	Simultaneous Transmitting		
Mode:	(Bluetooth + WLAN 2.4 GHz)		
Ant.Polar.:	Vertical		



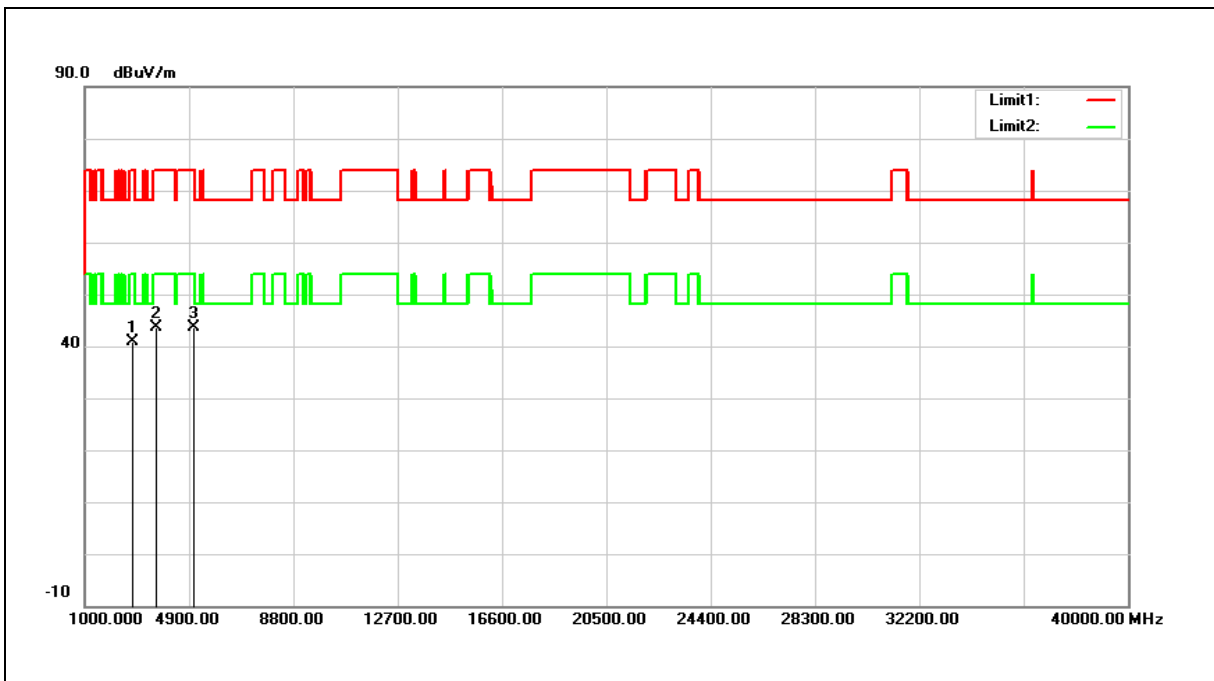
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2751.000	52.57	-13.22	39.35	74.00	-34.65	peak
2	4417.000	52.53	-9.57	42.96	74.00	-31.04	peak
3	6134.000	48.98	-5.05	43.93	74.00	-30.07	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	Simultaneous Transmitting		
Mode:	(Bluetooth + WLAN 5 GHz)		
Ant.Polar.:	Horizontal		



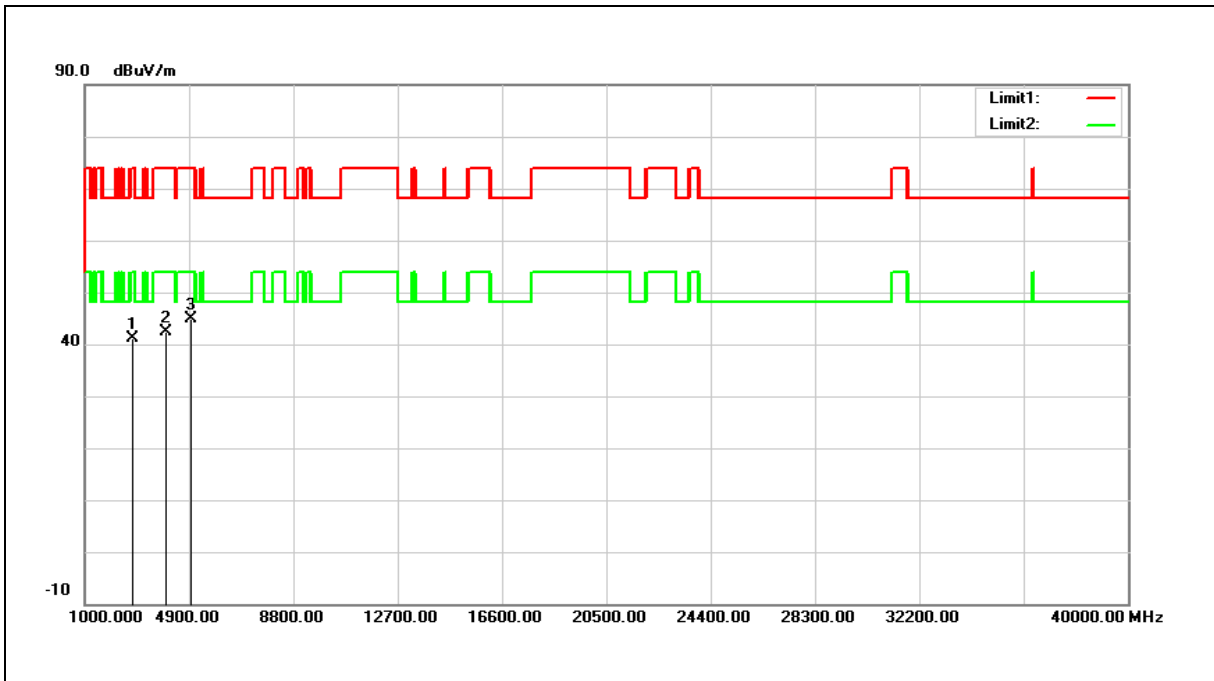
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2819.000	54.02	-13.02	41.00	74.00	-33.00	peak
2	3686.000	54.75	-11.17	43.58	74.00	-30.42	peak
3	5097.000	51.48	-7.85	43.63	74.00	-30.37	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	Simultaneous Transmitting		
Mode:	(Bluetooth + WLAN 5 GHz)		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2802.000	54.20	-13.07	41.13	74.00	-32.87	peak
2	4043.000	52.60	-10.17	42.43	74.00	-31.57	peak
3	4961.000	53.07	-8.26	44.81	74.00	-29.19	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

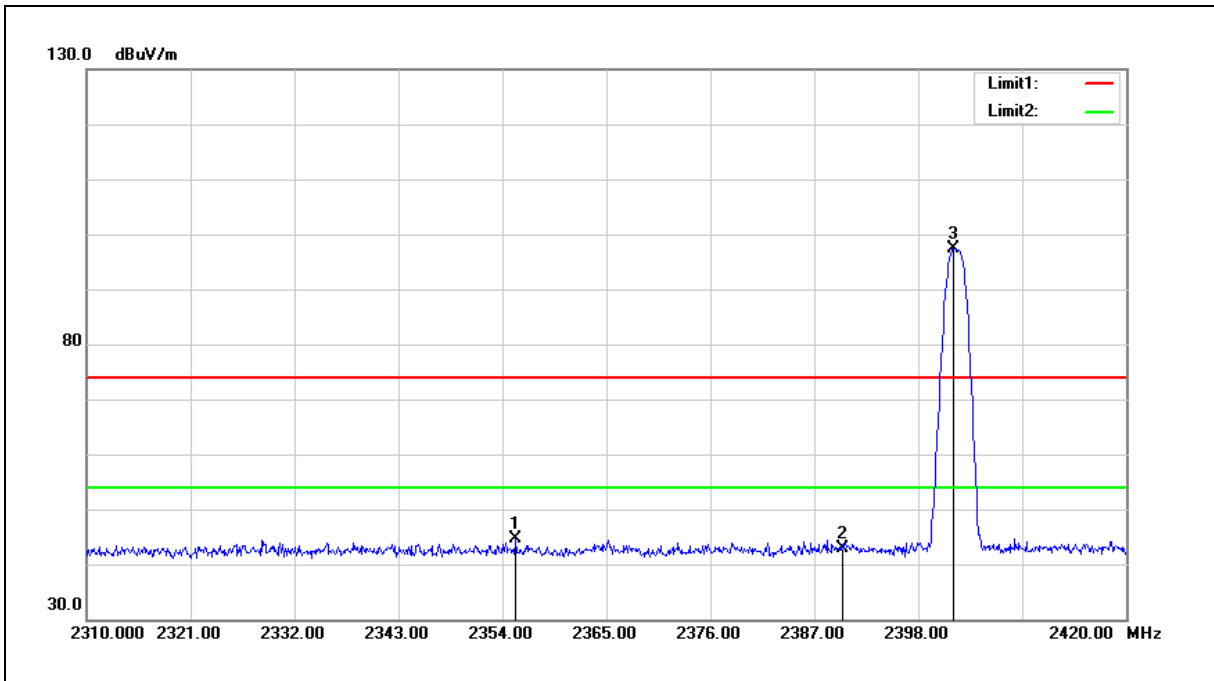
3. When the peak results are less than average limit, so not need to evaluate the average.





**Band Edge**

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2355.430	59.17	-14.56	44.61	74.00	-29.39	peak
2	2390.000	57.22	-14.38	42.84	74.00	-31.16	peak
3	2401.740	111.77	-14.32	97.45	--	--	peak

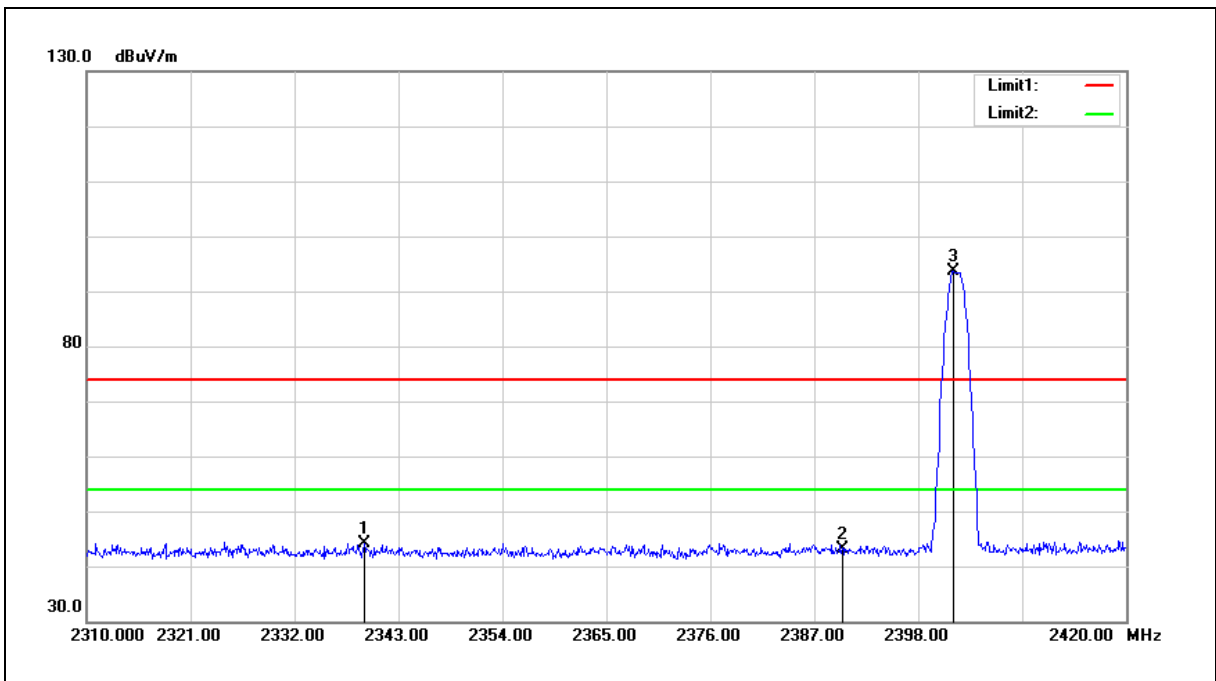
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2339.370	58.75	-14.65	44.10	74.00	-29.90	peak
2	2390.000	57.48	-14.38	43.10	74.00	-30.90	peak
3	2401.740	107.88	-14.32	93.56	--	--	peak

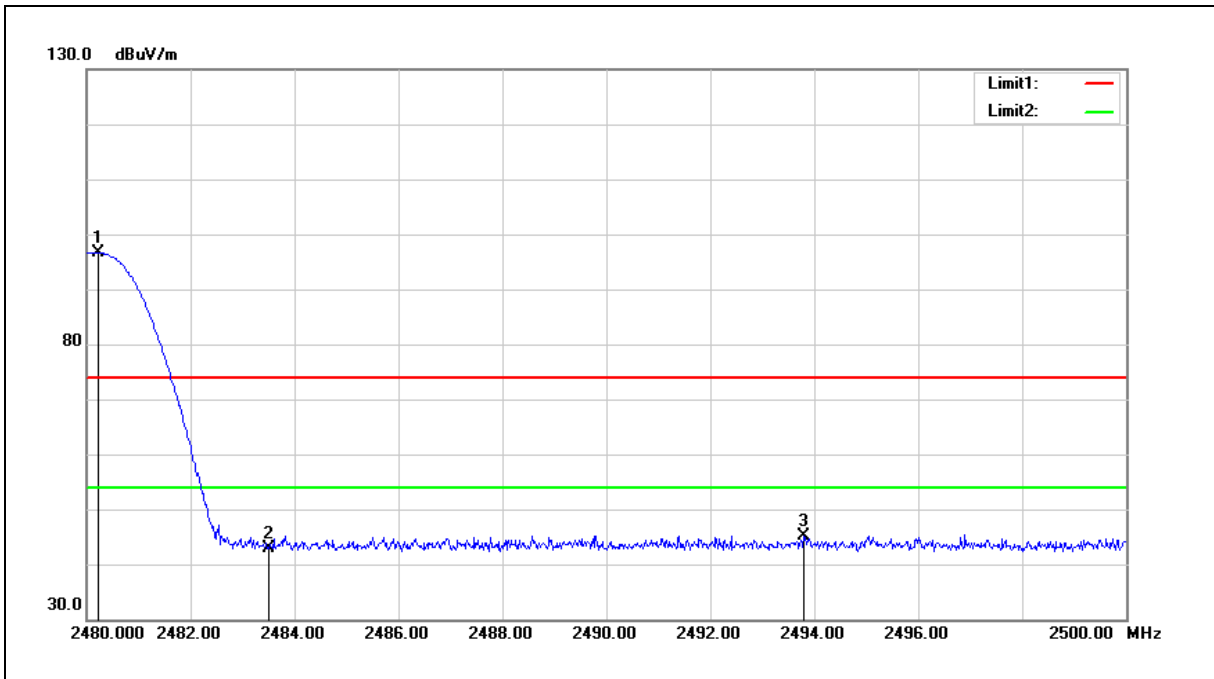
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.220	110.55	-13.92	96.63	--	--	peak
2	2483.500	56.69	-13.91	42.78	74.00	-31.22	peak
3	2493.800	59.09	-13.85	45.24	74.00	-28.76	peak

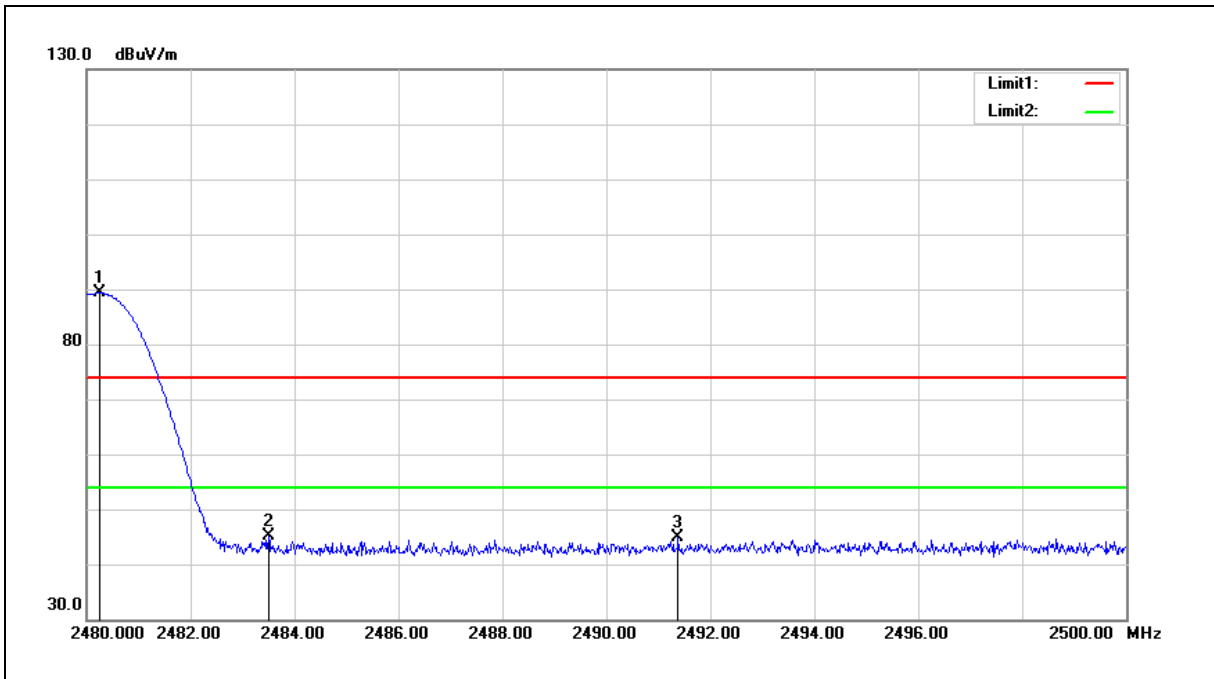
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.260	103.23	-13.92	89.31	--	--	peak
2	2483.500	59.11	-13.91	45.20	74.00	-28.80	peak
3	2491.380	58.75	-13.86	44.89	74.00	-29.11	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

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