

## RF Test Report

Applicant : Draytek Corporation

Product Name : Vigor Router 11ax Series

Trade Name : DrayTek

Model Number : Vigor2765ax, Vigor2765Vax, Vigor2766ax, Vigor2766Vax,  
Vigor2135ax, Vigor2135Vax, Vigor2135Fax, Vigor2135FVax,  
VigorAP 906

Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
ANSI C63.10:2013

Received Date : Feb. 08, 2022

Test Period : Apr. 12 ~ Aug. 10, 2022

Issued Date : Sep. 20, 2022

### Issued by

A Test Lab Techno Corp.  
No. 140-1, Changan Street, Bade District,  
Taoyuan City 334025, Taiwan (R.O.C.)  
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330  
Frequency Range : 9 kHz to 325 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	Sep. 20, 2022	Initial Issue	Emma Chao

## Verification of Compliance

Applicant : Draytek Corporation

Product Name : Vigor Router 11ax Series

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Model Number : Vigor2765ax, Vigor2765Vax, Vigor2766ax, Vigor2766Vax,  
Vigor2135ax, Vigor2135Vax, Vigor2135Fax, Vigor2135FVax,  
VigorAP 906

FCC ID : VGY2765AX

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,  
Taoyuan City 334025, Taiwan (R.O.C.)  
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Taiwan Accreditation Foundation accreditation number: 1330



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 : \_\_\_\_\_  
(Kai Yu Yang)

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# 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	----

### Decision Rule

- Uncertainty is not included.
- Uncertainty is included.

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
KDB 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

## 1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB
Radiated Emission	9 kHz ~ 30 MHz	2.2 dB
	30 MHz ~ 1000 MHz	5.1 dB
	1000 MHz ~ 18000 MHz	5.2 dB
	18000 MHz ~ 26500 MHz	4.6 dB
	26500 MHz ~ 40000 MHz	4.6 dB
Conducted Output Power	1.1 dB	
RF Bandwidth	4.7 %	
Power Spectral Density	1.1 dB	

## 2 EUT Description

Applicant	Draytek Corporation No.26, FuShing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan			
Product Name	Vigor Router 11ax Series			
Trade Name	DrayTek			
Model Number	Vigor2765ax, Vigor2765Vax, Vigor2766ax, Vigor2766Vax, Vigor2135ax, Vigor2135Vax, Vigor2135Fax, Vigor2135FVax, VigorAP 906			
FCC ID	VGY2765AX			
Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate (ns)
IEEE 802.11b	2412 ~ 2462	DSSS	20 MHz	Up to 11 Mbps
IEEE 802.11g	2412 ~ 2462	OFDM	20 MHz	Up to 54 Mbps
IEEE 802.11n 2.4 GHz 20 MHz	2412 ~ 2462	OFDM	20 MHz	Up to 144.4 Mbps
IEEE 802.11n 2.4 GHz 40 MHz	2422 ~ 2452	OFDM	40 MHz	Up to 300 Mbps
IEEE 802.11ax 2.4 GHz 20 MHz	2412 ~ 2462	OFDMA	20 MHz	Up to 286.6 Mbps
IEEE 802.11ax 2.4 GHz 40 MHz	2422 ~ 2452	OFDMA	40 MHz	Up to 573.5 Mbps
Antenna information	Antenna	Model Number	Type	Max. Gain (dBi)
	ANT-0 / ANT-1	DPD2430Z01-150W17U7S	Dipole Antenna	2.7
Antenna Delivery	See section 3.1			
Operate Temp. Range	5 ~ +40 °C			
EUT Power Rating	Vigor2765ax 12 Vdc, 2 A Vigor2765Vax 12 Vdc, 2.2 A Vigor2766ax 12 Vdc, 2 A Vigor2766Vax 12 Vdc, 2.2 A Vigor2135ax 12 Vdc, 2 A Vigor2135Vax 12 Vdc, 2.2 A Vigor2135Fax 12 Vdc, 2.1 A Vigor2135FVax 12 Vdc, 2.3 A VigorAP 906 12 Vdc, 1.5 A			

Difference description table

Model name	PCB#	WAN			VoIP FXS	POE(PD)
		DSL	Eth-RJ45	Eth-SFP		
Vigor2765ax	1	V (ADSL2/VDSL2/35b)				
Vigor2765Vax	1	V (ADSL2/VDSL2/35b)			V	
Vigor2766ax	2	V (ADSL2/VDSL2/35b)	g.fast			
Vigor2766Vax	2	V (ADSL2/VDSL2/35b)	g.fast		V	
Vigor2135ax	3		V			
Vigor2135Vax	3		V		V	
Vigor2135Fax	3			V		
Vigor2135FVax	3			V	V	
VigorAP 906	3		V			V

Frequency Band	Max. RF Output Power (W)
IEEE 802.11b	0.471
IEEE 802.11g	0.804
IEEE 802.11n 2.4 GHz 20 MHz	0.820
IEEE 802.11n 2.4 GHz 40 MHz	0.817
IEEE 802.11ax 2.4 GHz 20 MHz	0.847
IEEE 802.11ax 2.4 GHz 40 MHz	0.832

Beamforming on
----------------

Frequency Band	Max. RF Output Power (W)
IEEE 802.11ax 2.4 GHz 20 MHz	0.391
IEEE 802.11ax 2.4 GHz 40 MHz	0.366



### 3 Test Methodology

#### 3.1. Mode of Operation

In the test report use EUT model: Vigor2135FVax to operate testing.

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:

Pre-Test Mode
Mode 1: Transmit mode
Mode 2: IEEE 802.11b Continuous TX mode
Mode 3: IEEE 802.11g Continuous TX mode
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX Mode
Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX Mode
Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode
Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode

Final-Test Mode
Mode 1: Transmit mode
Mode 2: IEEE 802.11b Continuous TX mode
Mode 3: IEEE 802.11g Continuous TX mode
Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode
Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz 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) position of EUT transmitted status, it was found that “Y axis” position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

Note 1: ANT-1 is the worst case in Mode 2.

Note 2: Investigation has been done on all the possible configurations for searching the worst cases (2.4 GHz HE20/HE40 covers 64QAM). The table is a list of the test modes show in this test report.

Note 3: 802.11 ax only support full RU.

Note 4: The device is used with adapter (number : 2ABL030F) performing the test.

Test Mode	ANT-0	ANT-1	ANT-0+1
Mode 2	V	V	---
Mode 3	V	V	V
Mode 4	V	V	V
Mode 5	V	V	V
Mode 6	V	V	V
Mode 7	V	V	V

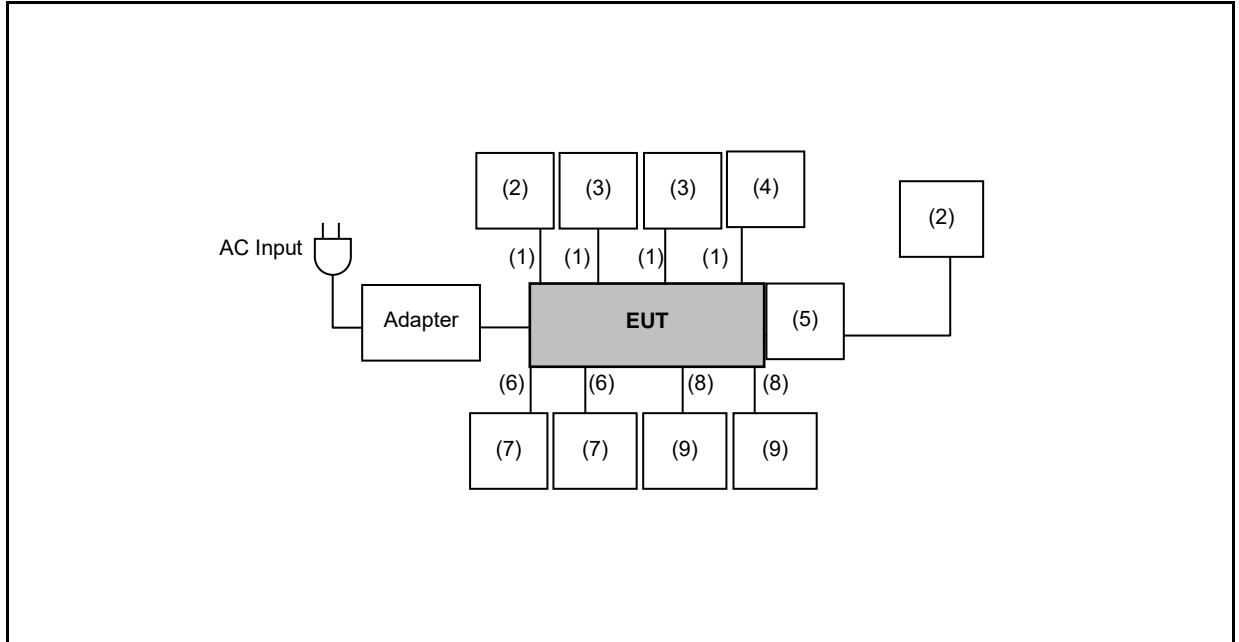
Test Mode	Antenna Delivery	Data Rate (Mbps)	Test Channel
Mode 2	1TX (Diveristy)	1	1, 6, 11
Mode 3	2TX (CDD)	6	1, 6, 11
Mode 4	2TX (CDD)	13	1, 6, 11
Mode 5	2TX (CDD)	27	3, 6, 9
Mode 6	2TX (CDD/Beamforming on)	MCS 0	1, 6, 11
Mode 7	2TX (CDD/Beamforming on)	MCS 0	3, 6, 9

### 3.2. EUT Test Step

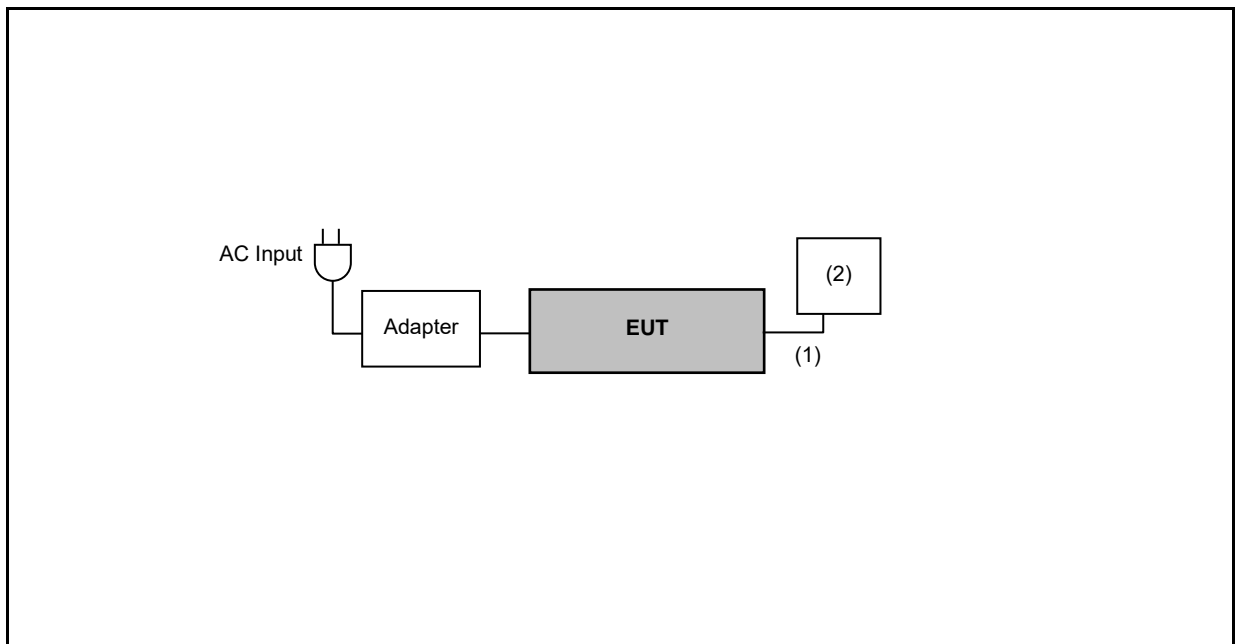
1.	Setup the EUT shown on "Configuration of Test System Details".
2.	Turn on the power of all equipment.
3.	Turn on TX function.
4.	EUT run test program.

### 3.3. Configuration of Test System Details

#### Conducted Emissions



#### Radiated Emission



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	LAN Cable	TATUNG	CAT5E	---	---
(2)	Notebook	ASUS	P1448U	---	---
(3)	Notebook	acer	N19C1	---	---
(4)	Notebook	HP	TPN-I130	---	---
(5)	Fiber Optic Cable	Dray Tek	BIDI, 1.25G, Tx15, Rx13, 20KM, SC, 3.3V	---	---
(6)	Telephone Wires	TENDEL	K-762	---	---
(7)	Telephone	TENDEL	K-762	---	---
(8)	USB Cable	Transcend	TS1TSJ25A3K-RU	---	---
(9)	HDD	Transcend	TS1TSJ25A3K-RU	---	---

### 3.4. Test Instruments

For Conducted Emission  
 Test Period: Aug. 09, 2022  
 Testing Engineer: Amber Cheng

Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESCI	100367	May 19, 2022	1 year
<input checked="" type="checkbox"/>	LISN	R&S	ENV216	101040	Apr. 06, 2022	1 year
<input checked="" type="checkbox"/>	LISN	R&S	ENV216	101140	Jan. 25, 2022	1 year
<input checked="" type="checkbox"/>	RF Cable	Woken	00100D1380194M	TE-02-03	May 27, 2022	1 year
<input checked="" type="checkbox"/>	Software	EZ EMC	1.1.4.3	N/A	N.C.R.	---

For Conducted  
 Test Period: Aug. 09 ~ Aug. 10, 2022  
 Testing Engineer: Peter Shui

Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input type="checkbox"/>	Power Sensor	Anritsu	MA2411B	1126022	Sep. 03, 2021	1 year
<input type="checkbox"/>	Power Meter	Anritsu	ML2495A	1135009	Sep. 03, 2021	1 year
<input checked="" type="checkbox"/>	Power Sensor	Agilent	N1921A	MY45241957	Dec. 06, 2021	1 year
<input checked="" type="checkbox"/>	Power Meter	Agilent	N1911A	MY45101619	Dec. 06, 2021	1 year
<input checked="" type="checkbox"/>	Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	Sep. 09, 2021	1 year
<input type="checkbox"/>	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Jan. 05, 2022	1 year
<input type="checkbox"/>	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 28, 2022	1 year
<input type="checkbox"/>	Signal Generator	Keysight	N5182B	MY53052569	Apr. 16, 2022	1 year
<input type="checkbox"/>	Signal Generator	Keysight	N5182BX07	MY59360221	Apr. 16, 2022	1 year
<input type="checkbox"/>	Bluetooth Tester	R&S	CBT	100350	Mar. 17, 2021	2 years
<input type="checkbox"/>	Wireless Connectivity Tester	R&S	CMW270	102208	Jun. 01, 2022	1 year
<input type="checkbox"/>	Power Supply	KEITHLEY	2303	4045290	Jan. 19, 2022	1 year
<input type="checkbox"/>	RF Communication Test Set	HP	8920A	3344A03297	Aug. 10, 2021	1 year

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

For Radiated Emissions

Test Period: Apr. 12 ~ May 28, 2022

Testing Engineer: Amy Wen, Marc Yeh

Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input type="checkbox"/>	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	Jan. 13, 2022	1 year
<input type="checkbox"/>	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Jan. 05, 2022	1 year
<input checked="" type="checkbox"/>	Spectrum Analyzer (2 Hz~50 GHz)	Keysight	N9030B	MY57143537	Apr. 19, 2021 Apr. 14, 2022	1 year
<input type="checkbox"/>	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9020B	MY60112363	Feb. 27, 2022	1 year
<input checked="" type="checkbox"/>	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 14, 2022	1 year
<input type="checkbox"/>	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A10961	Jul. 06, 2021	1 year
<input type="checkbox"/>	Broadband Amplifier (100 kHz~1 GHz)	Titan	T0910E00014330A 1F	001	Jul. 23, 2021	1 year
<input type="checkbox"/>	Amplifier (1 GHz~26.5 GHz)	Agilent	8449B	3008A02237	Oct. 21, 2021	1 year
<input checked="" type="checkbox"/>	Broadband Amplifier (1 GHz~26.5 GHz)	Titan	T0912E01263025A 1F	002	Jul. 26, 2021	1 year
<input type="checkbox"/>	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Aug. 19, 2021	1 year
<input checked="" type="checkbox"/>	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 28, 2022	1 year
<input type="checkbox"/>	Active Loop Antenna (9 kHz~30 MHz)	Schwarzbeck Mess-Elektronik	FMZB 1513-60	1513-60-031	Feb. 17, 2022	1 year
<input checked="" type="checkbox"/>	Trilog Broadband Antenna (30 MHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jul. 19, 2021	1 year
<input type="checkbox"/>	Trilog Broadband Antenna (30 MHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	416	Nov. 17, 2021	1 year
<input checked="" type="checkbox"/>	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	02207	Jul. 13, 2022	1 year
<input type="checkbox"/>	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	9120D-550	Aug. 24, 2021	1 year
<input checked="" type="checkbox"/>	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Aug. 24, 2021	1 year
<input type="checkbox"/>	Horn Antenna (18 GHz~40 GHz)	ETS	3116	00086467	Dec. 03, 2021	1 year
<input type="checkbox"/>	RF Cable	EMCI	EMC104-N-N-6000	TE01-1	Feb. 18, 2022	1 year

Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input type="checkbox"/>	Microwave Cable	EMCI	EMC104-SM-SM-13000	170814	Feb. 18, 2022	1 year
<input type="checkbox"/>	Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	Feb. 18, 2022	1 year
<input checked="" type="checkbox"/>	Coaxial Cable	Titan	T0710AT327A10A100	J11005	Aug. 06, 2021	1 year
<input checked="" type="checkbox"/>	Coaxial Cable	Titan	T0710AT327A10A900	J11004	Aug. 06, 2021	1 year
<input checked="" type="checkbox"/>	Coaxial Cable	Titan	CFD400NL-LW	001	Aug. 06, 2021	1 year
<input type="checkbox"/>	Bluetooth Tester	R&S	CBT	100350	Mar. 17, 2021	2 years
<input type="checkbox"/>	Wireless Connectivity Tester	R&S	CMW270	102208	Jun. 01, 2022	1 year
<input type="checkbox"/>	Power Supply	KEITHLEY	2303	4045290	Jan. 19, 2022	1 year
<input checked="" type="checkbox"/>	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

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

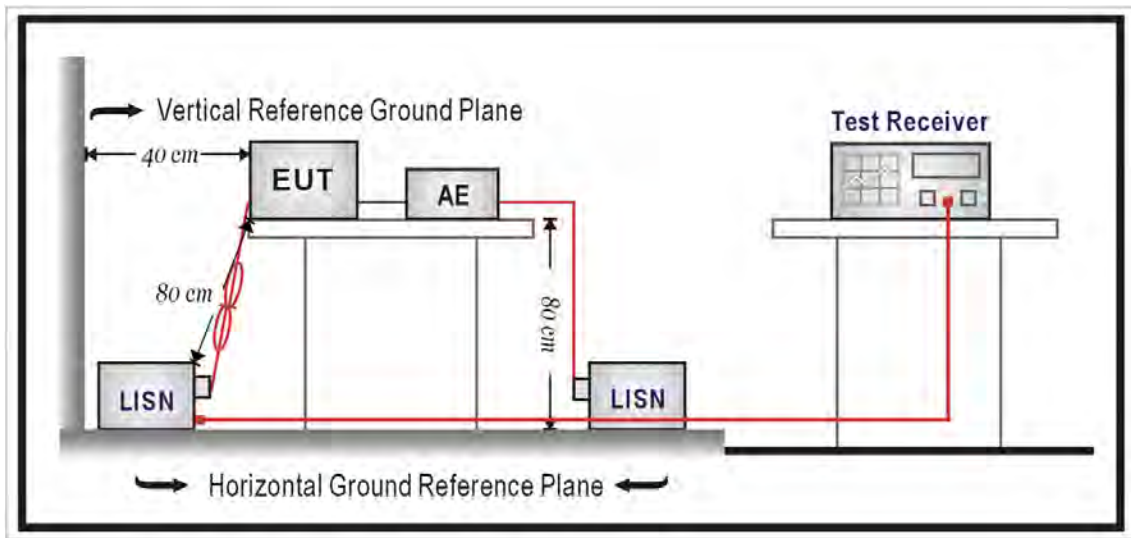
## 4 Measurement Procedure

### 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

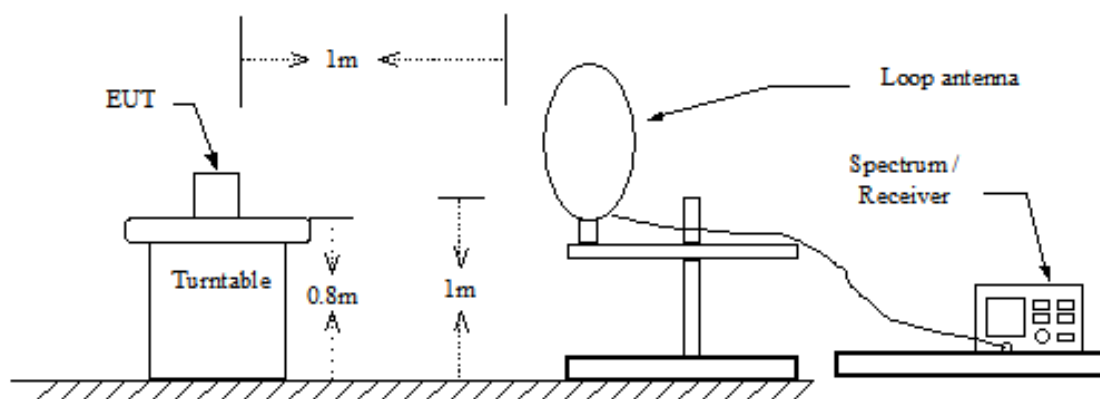
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

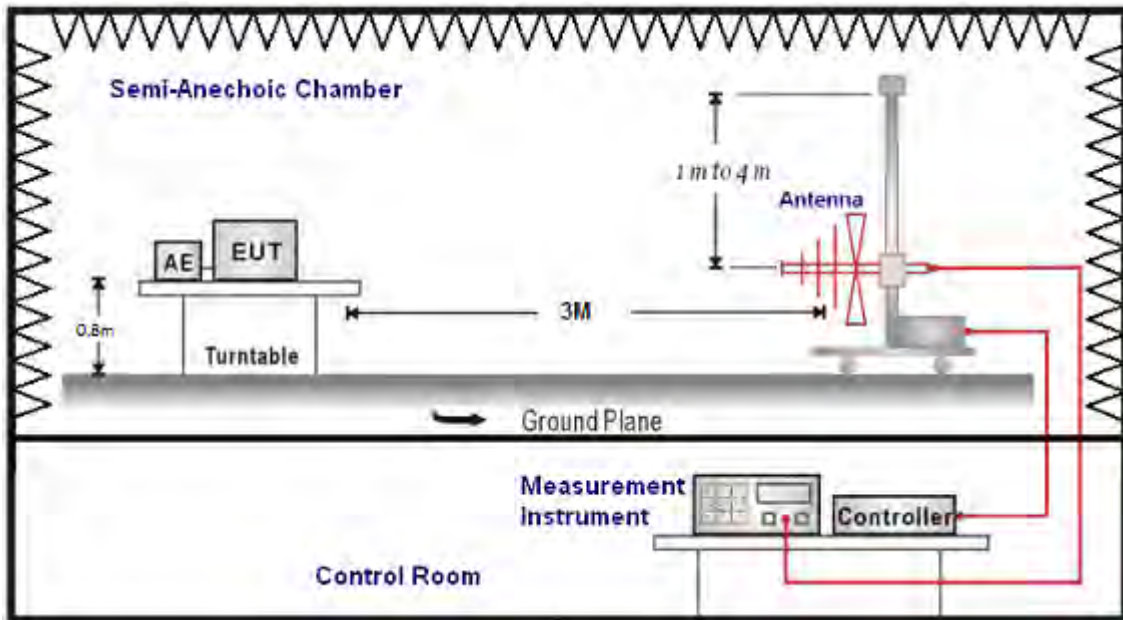
\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

### ■ Setup

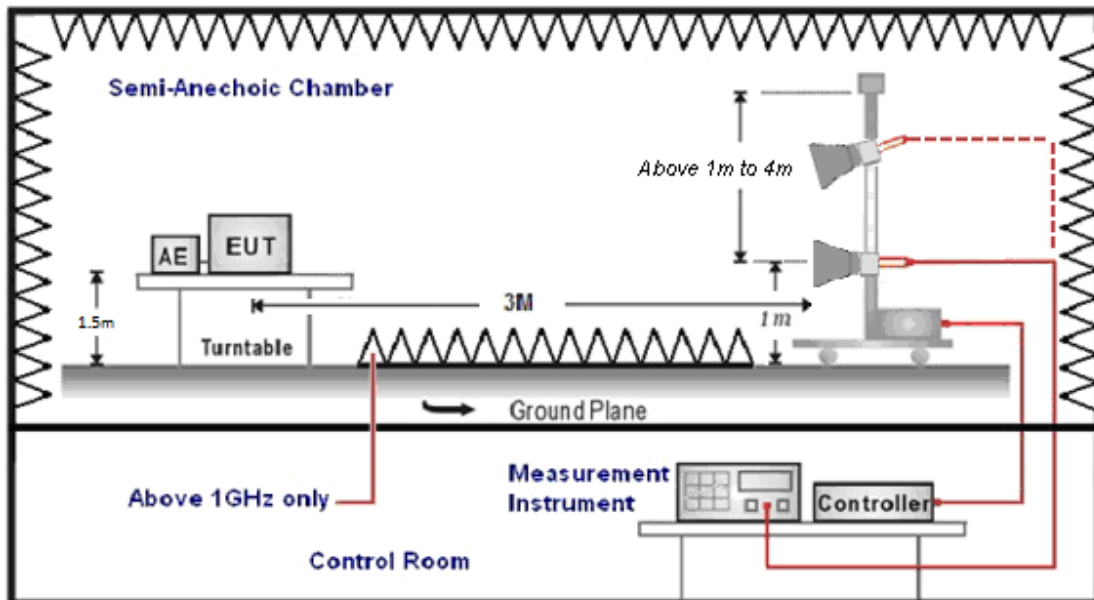
9 kHz ~ 30 MHz



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 (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/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.

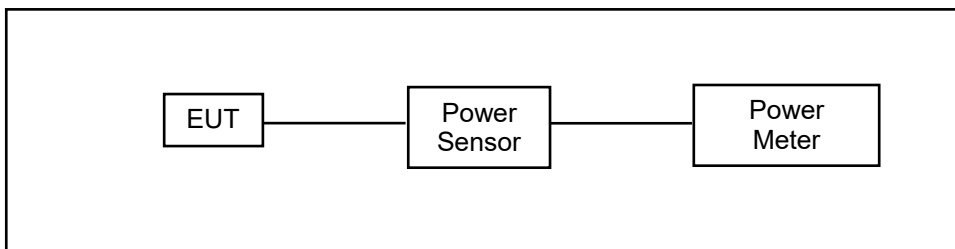
### 4.3. Maximum Conducted Output Power Measurement

#### ■ Limit

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

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.

#### ■ Test Setup



#### ■ Test Procedure

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

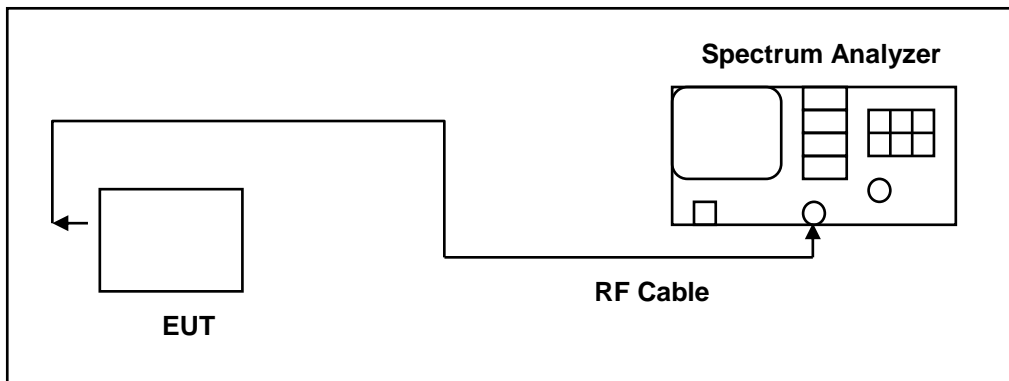
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

#### 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.

■ **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.

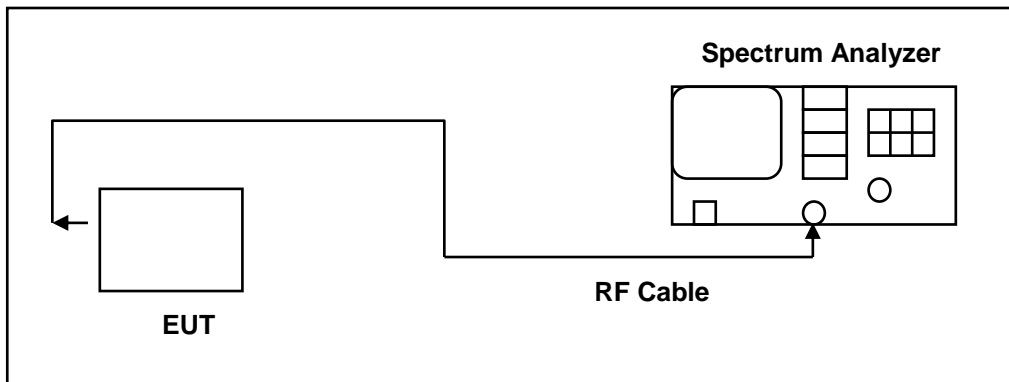
The test was performed at 3 channels (Channel low, middle, high)

## 4.5. Maximum Power Spectral 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 for compliance to FCC 47CFR 15.247 requirements.

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.

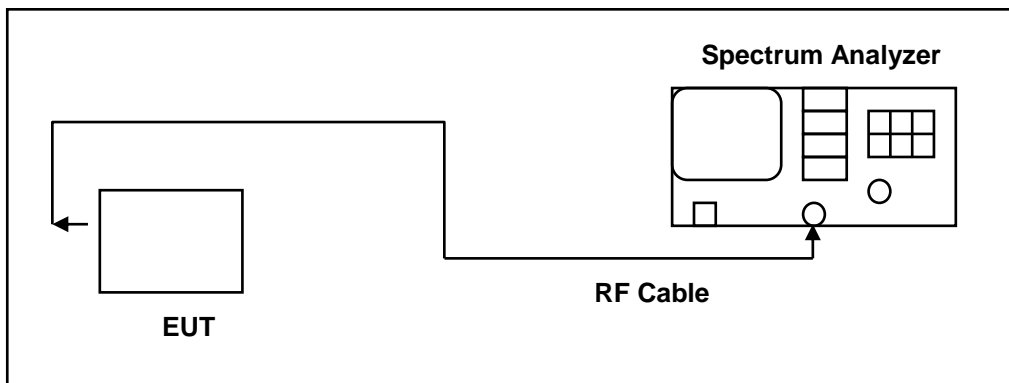


#### 4.6. Out of Band Conducted Emissions Measurement

##### ■ 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 30 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 30 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 Description

See section 2 – antenna information.

### ■ Directional Gain Calculated

#### For Maximum Conducted Output Power

Directional Gain = Max Gain

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b	2.7
IEEE 802.11g	2.7
IEEE 802.11n 2.4 GHz 20 MHz	2.7
IEEE 802.11n 2.4 GHz 40 MHz	2.7
IEEE 802.11ax 2.4 GHz 20 MHz	2.7
IEEE 802.11ax 2.4 GHz 40 MHz	2.7

#### For Maximum Power Density

Directional Gain = Max Gain (For IEEE 802.11b)

Directional Gain = GANT + Array Gain

Array Gain =  $10 \log(2/1)$  dB

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b	2.7
IEEE 802.11g	5.71
IEEE 802.11n 2.4 GHz 20 MHz	5.71
IEEE 802.11n 2.4 GHz 40 MHz	5.71
IEEE 802.11ax 2.4 GHz 20 MHz	5.71
IEEE 802.11ax 2.4 GHz 40 MHz	5.71

Beamforming on
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Directional Gain = GANT + Array Gain

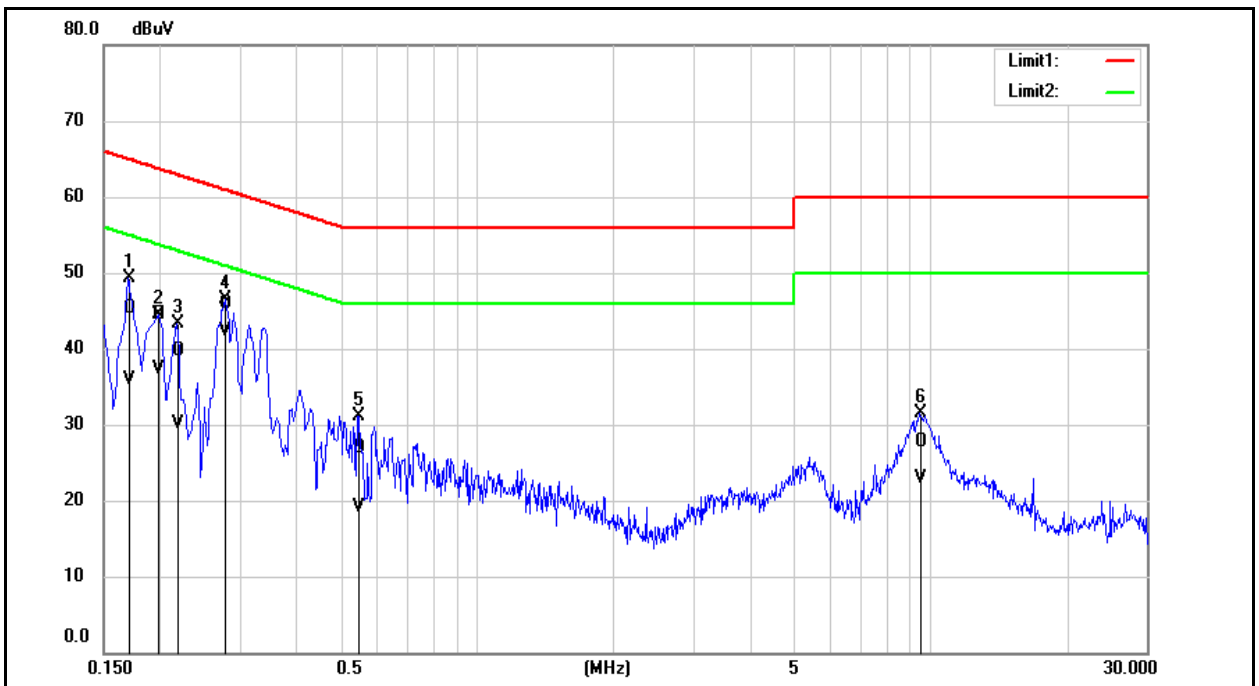
Array Gain =  $10 \log(2/1)$  dB

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11ax 2.4 GHz 20 MHz	5.71
IEEE 802.11ax 2.4 GHz 40 MHz	5.71

## 5 Test Results

### 5.1. Conducted Emission

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

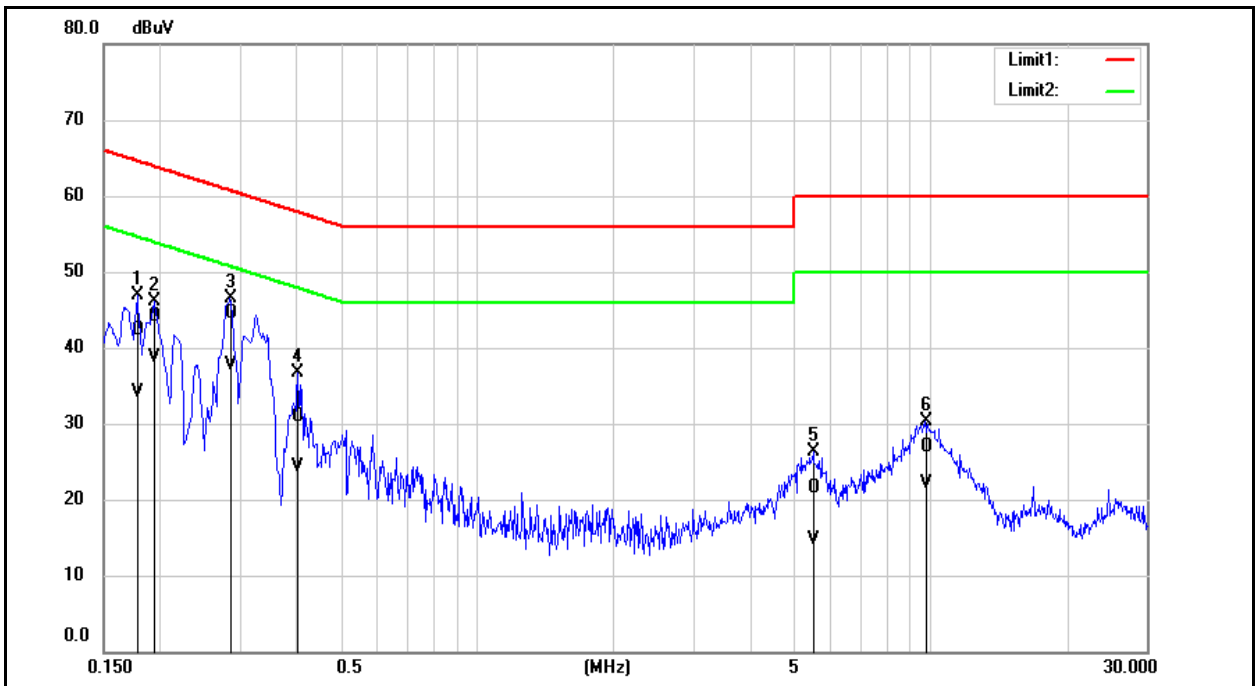


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1700	35.82	26.42	9.54	45.36	35.96	64.96	54.96	-19.60	-19.00	Pass
2	0.1980	35.00	27.68	9.54	44.54	37.22	63.69	53.69	-19.15	-16.47	Pass
3	0.2180	30.14	20.55	9.54	39.68	30.09	62.89	52.89	-23.21	-22.80	Pass
4	0.2780	36.35	32.73	9.54	45.89	42.27	60.88	50.88	-14.99	-8.61	Pass
5	0.5460	17.42	9.49	9.55	26.97	19.04	56.00	46.00	-29.03	-26.96	Pass
6	9.4780	17.93	13.18	9.76	27.69	22.94	60.00	50.00	-32.31	-27.06	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	0.1780	32.71	24.50	9.60	42.31	34.10	64.58	54.58	-22.27	-20.48	Pass
2	0.1940	34.42	29.02	9.60	44.02	38.62	63.86	53.86	-19.84	-15.24	Pass
3	0.2860	34.88	28.01	9.60	44.48	37.61	60.64	50.64	-16.16	-13.03	Pass
4	0.4020	21.25	14.73	9.61	30.86	24.34	57.81	47.81	-26.95	-23.47	Pass
5	5.5180	11.78	4.98	9.78	21.56	14.76	60.00	50.00	-38.44	-35.24	Pass
6	9.7220	16.95	12.29	9.87	26.82	22.16	60.00	50.00	-33.18	-27.84	Pass

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

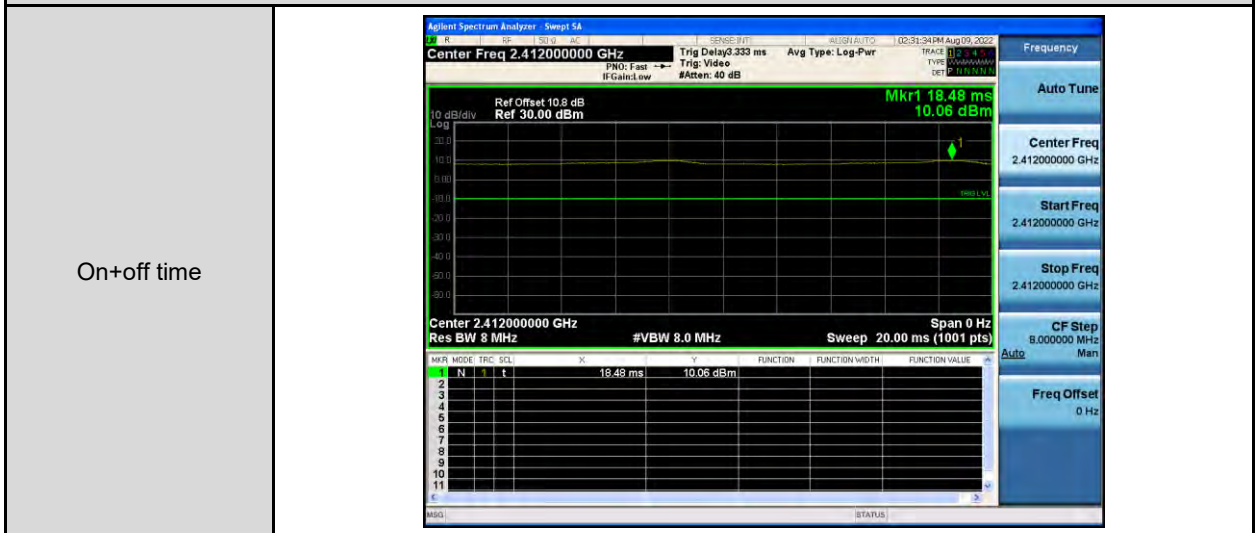
## 5.2. Conducted Test Results

### Duty cycle

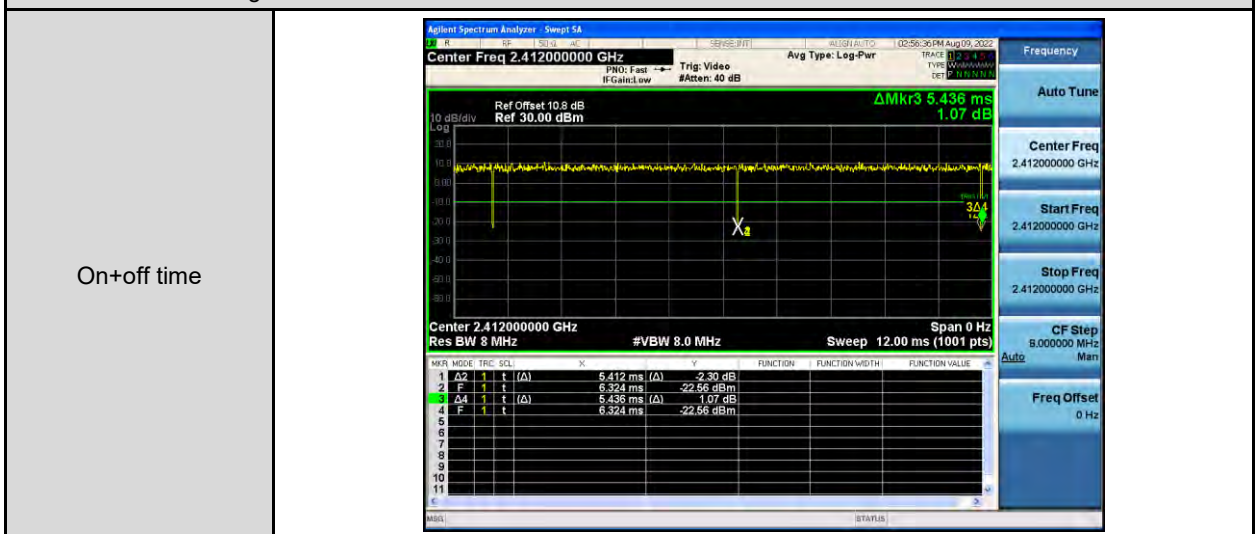
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2	2412	20.000	20.000	1.000	0.000	0.010
Mode 3	2412	5.412	5.436	0.996	0.019	0.010
Mode 6	2412	3.830	3.840	0.997	0.011	0.010
Mode 7	2422	1.944	1.960	0.992	0.036	0.010

### Duty Cycle Graphs

Mode 2: IEEE 802.11b Continuous TX mode

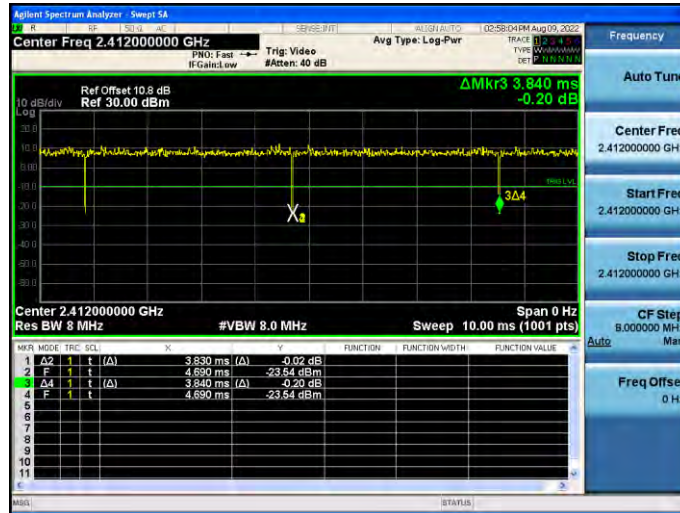


Mode 3: IEEE 802.11g Continuous TX mode



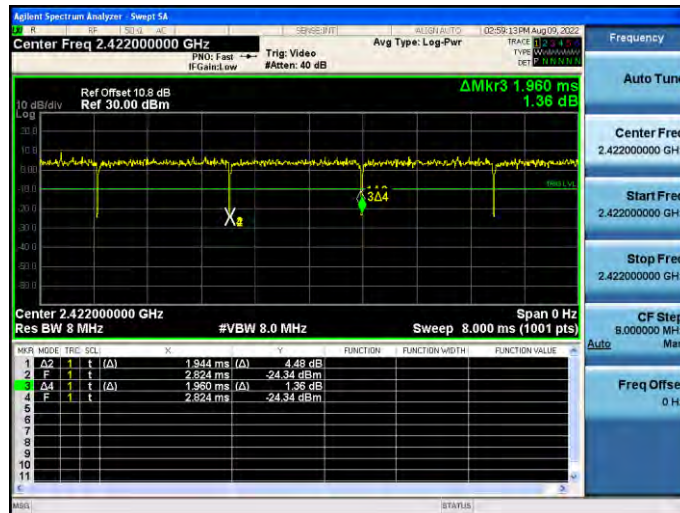
Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode

On+off time



Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode

On+off time



**Maximum Conducted Output Power Measurement**

Test Mode	Frequency (MHz)	RF Power setting in Test Software		Test Software Version
		ANT-0	ANT-1	
Mode 2	2412	23.0	23.0	DUT GUI Version 610.36
	2437	28.0	28.0	
	2462	28.0	28.0	
Mode 3	2412	20.0	20.0	
	2437	27.0	27.0	
	2462	20.0	20.0	
Mode 4	2412	17.0	17.0	
	2437	27.0	27.0	
	2462	18.0	18.0	
Mode 5	2422	15.0	15.0	
	2437	28.0	28.0	
	2452	17.0	17.0	
Mode 6	2412	17.0	17.0	
	2437	27.0	27.0	
	2462	18.0	18.0	
Mode 7	2422	15.0	15.0	
	2437	28.0	28.0	
	2452	17.0	17.0	

**Beamforming on**

Test Mode	Frequency (MHz)	RF Power setting in Test Software		Test Software Version
		ANT-0	ANT-1	
Mode 6	2412	13.0	13.0	DUT GUI Version 610.36
	2437	23.0	23.0	
	2462	14.0	14.0	
Mode 7	2422	11.0	11.0	
	2437	23.0	23.0	
	2452	13.0	13.0	



Test Mode	Data Rate	Frequency (MHz)	Average Output Power						Limit
			ANT-0		ANT-1		ANT-0+1		
			dBm	W	dBm	W	dBm	W	
Mode 2	1 M	2412	22.01	0.159	22.31	0.170	---	---	≤ 30.00
		2437	26.20	0.417	26.73	0.471	---	---	≤ 30.00
		2462	26.06	0.404	26.41	0.438	---	---	≤ 30.00
Mode 3	6 M	2412	19.19	0.083	20.02	0.100	22.64	0.184	≤ 30.00
		2437	25.81	0.381	26.26	0.423	29.05	0.804	≤ 30.00
		2462	19.14	0.082	19.43	0.088	22.30	0.170	≤ 30.00
Mode 4	13 M	2412	16.69	0.047	16.94	0.049	19.83	0.096	≤ 30.00
		2437	25.97	0.395	26.29	0.426	29.14	0.820	≤ 30.00
		2462	17.22	0.053	17.53	0.057	20.39	0.109	≤ 30.00
Mode 5	27 M	2422	15.03	0.032	15.51	0.036	18.29	0.067	≤ 30.00
		2437	25.92	0.391	26.29	0.426	29.12	0.817	≤ 30.00
		2452	16.45	0.044	16.94	0.049	19.71	0.094	≤ 30.00
Mode 6	MCS 0	2412	16.76	0.047	16.96	0.050	19.87	0.097	≤ 30.00
		2437	26.11	0.408	26.42	0.439	29.28	0.847	≤ 30.00
		2462	17.32	0.054	17.63	0.058	20.49	0.112	≤ 30.00
Mode 7	MCS 0	2422	15.10	0.032	15.52	0.036	18.33	0.068	≤ 30.00
		2437	26.06	0.404	26.32	0.429	29.20	0.832	≤ 30.00
		2452	16.58	0.045	17.06	0.051	19.84	0.096	≤ 30.00

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

Beamforming on
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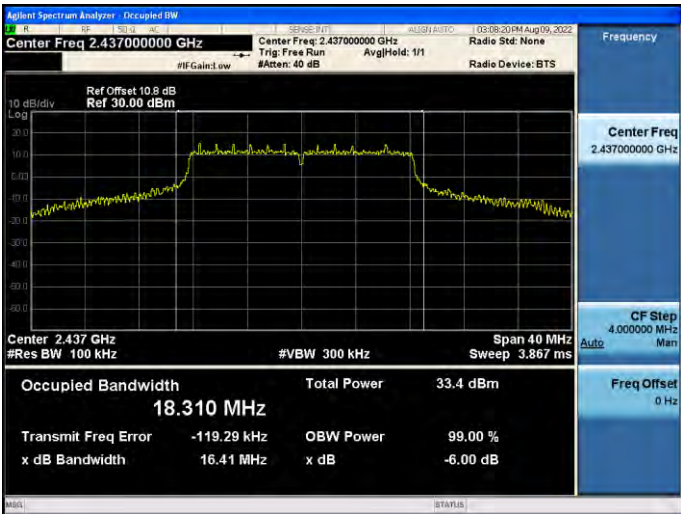
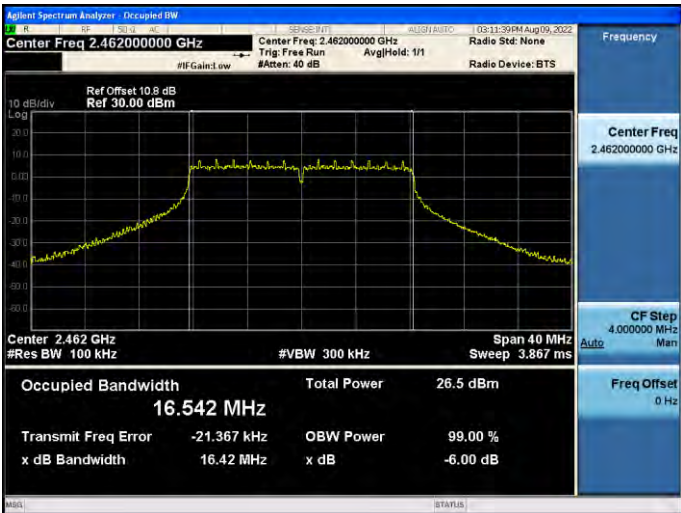
Test Mode	Data Rate	Frequency (MHz)	Average Output Power						Limit
			ANT-0		ANT-1		ANT-0+1		
			dBm	W	dBm	W	dBm	W	
Mode 6	MCS 0	2412	13.27	0.021	13.39	0.022	16.34	0.043	≤ 30.00
		2437	22.93	0.196	22.88	0.194	25.92	0.391	≤ 30.00
		2462	14.00	0.025	13.87	0.024	16.95	0.050	≤ 30.00
Mode 7	MCS 0	2422	11.79	0.015	12.01	0.016	14.91	0.031	≤ 30.00
		2437	22.67	0.185	22.56	0.180	25.63	0.366	≤ 30.00
		2452	13.07	0.020	13.32	0.021	16.21	0.042	≤ 30.00

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

**6 dB RF Bandwidth Measurement**

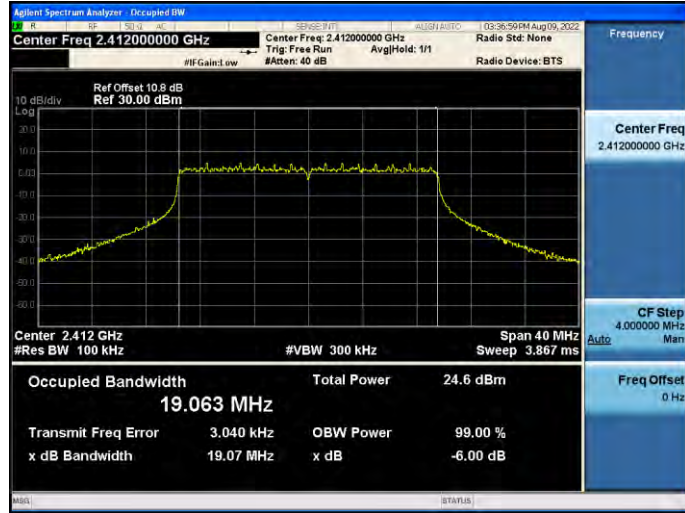
Test Mode	Frequency (MHz)	Measurement (kHz)		Limit (kHz)
		ANT-0	ANT-1	
Mode 2	2412	---	8124	≥ 500
	2437	---	9034	≥ 500
	2462	---	8132	≥ 500
Mode 3	2412	16450	16460	≥ 500
	2437	16410	16420	≥ 500
	2462	16420	16450	≥ 500
Mode 6	2412	19070	19080	≥ 500
	2437	19040	19040	≥ 500
	2462	19070	19110	≥ 500
Mode 7	2422	38550	38050	≥ 500
	2437	38070	38470	≥ 500
	2452	38510	38440	≥ 500

■ Test Graphs

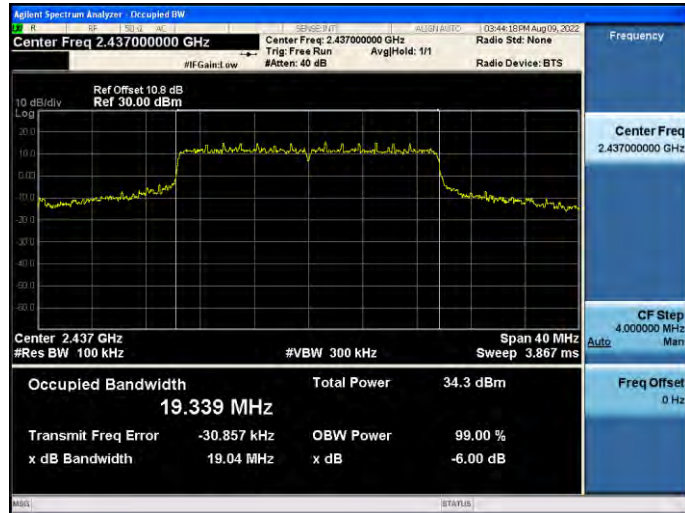
Mode 3: IEEE 802.11g Continuous TX mode_ANT-0	
2412 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 10.8 dB</p> <p>Ref 30.00 dBm</p> <p>Center 2.412 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz</p> <p>Sweep 3.867 ms</p> <p>Occupied Bandwidth 16.553 MHz</p> <p>Total Power 26.5 dBm</p> <p>Transmit Freq Error -16.277 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 16.45 MHz</p> <p>x dB -6.00 dB</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 10.8 dB</p> <p>Ref 30.00 dBm</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz</p> <p>Sweep 3.867 ms</p> <p>Occupied Bandwidth 18.310 MHz</p> <p>Total Power 33.4 dBm</p> <p>Transmit Freq Error -119.29 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 16.41 MHz</p> <p>x dB -6.00 dB</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 10.8 dB</p> <p>Ref 30.00 dBm</p> <p>Center 2.462 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz</p> <p>Sweep 3.867 ms</p> <p>Occupied Bandwidth 16.542 MHz</p> <p>Total Power 26.5 dBm</p> <p>Transmit Freq Error -21.367 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 16.42 MHz</p> <p>x dB -6.00 dB</p>

Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode\_ANT-0

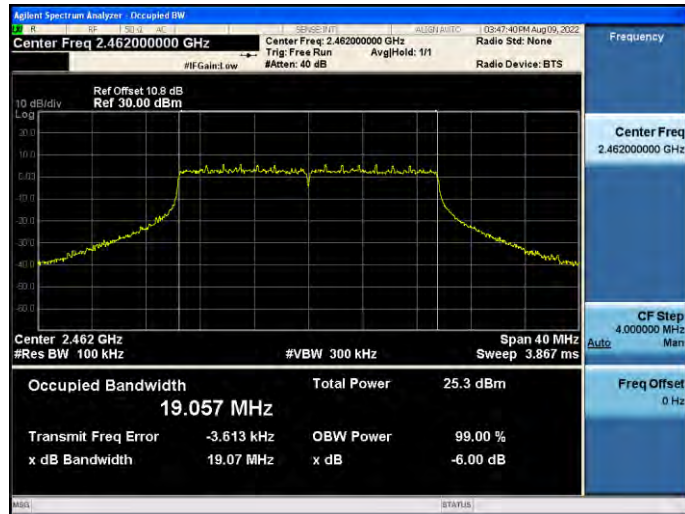
2412 MHz



2437 MHz

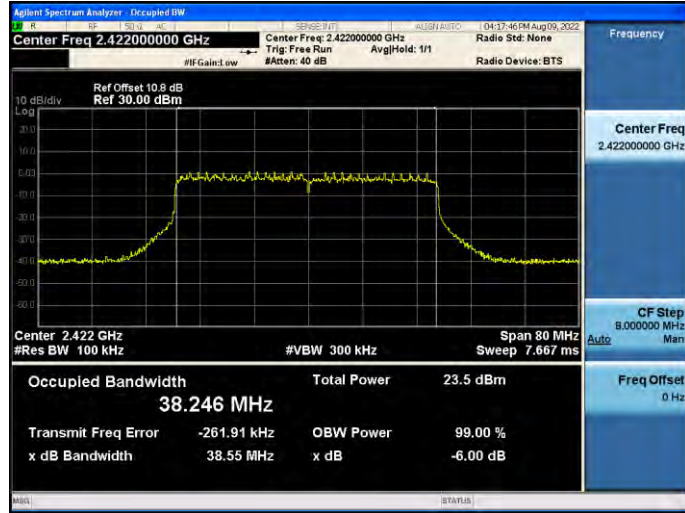


2462 MHz

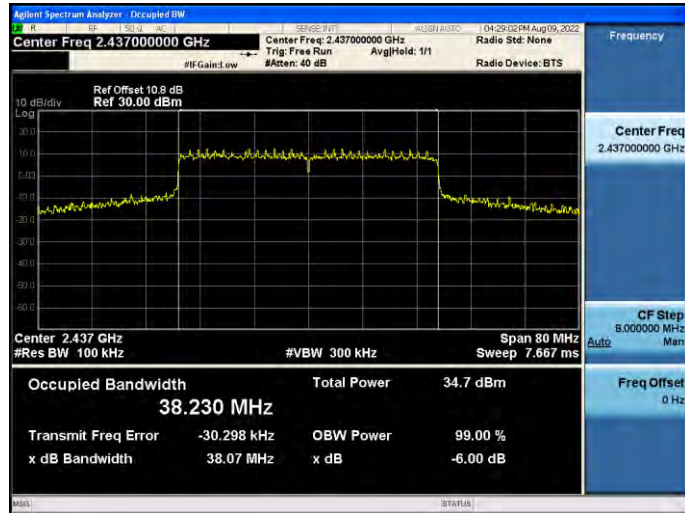


Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode\_ANT-0

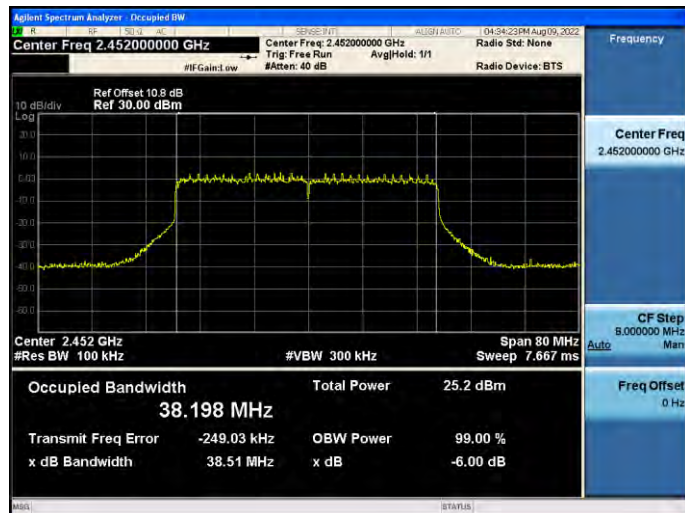
2422 MHz



2437 MHz

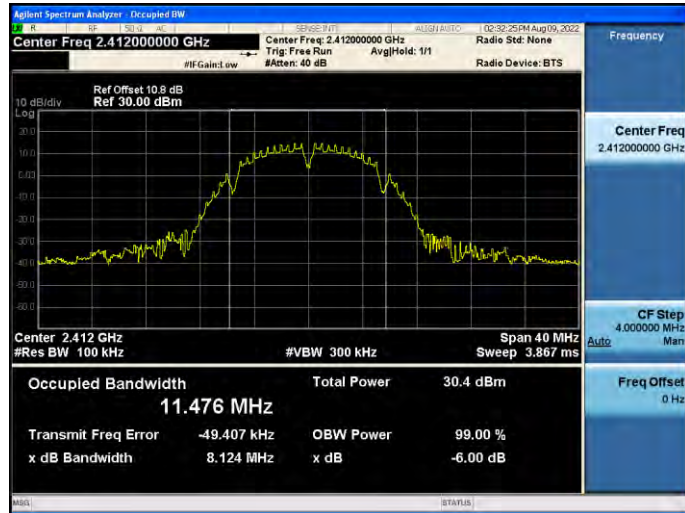


2452 MHz



Mode 2: IEEE 802.11b Continuous TX mode\_ANT-1

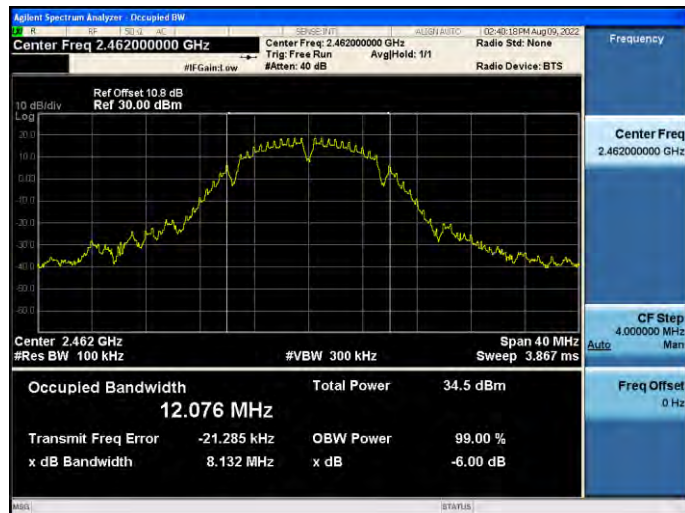
2412 MHz



2437 MHz

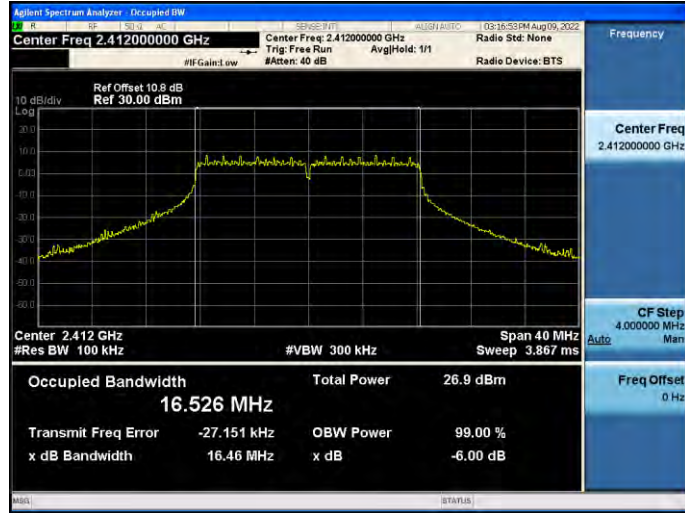


2462 MHz

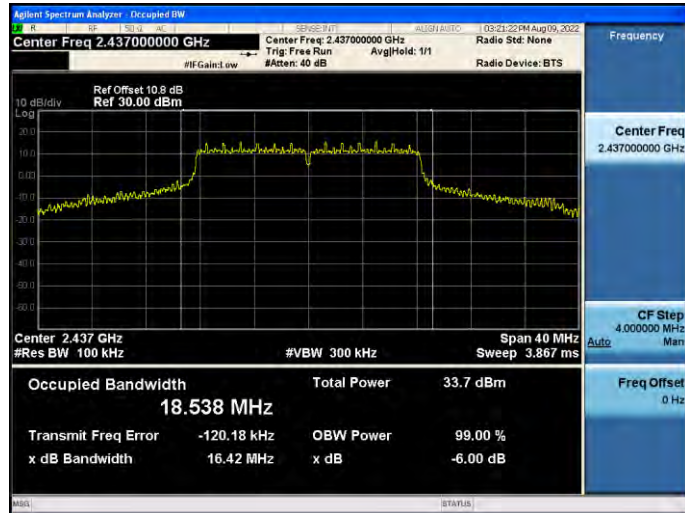


Mode 3: IEEE 802.11g Continuous TX mode\_ANT-1

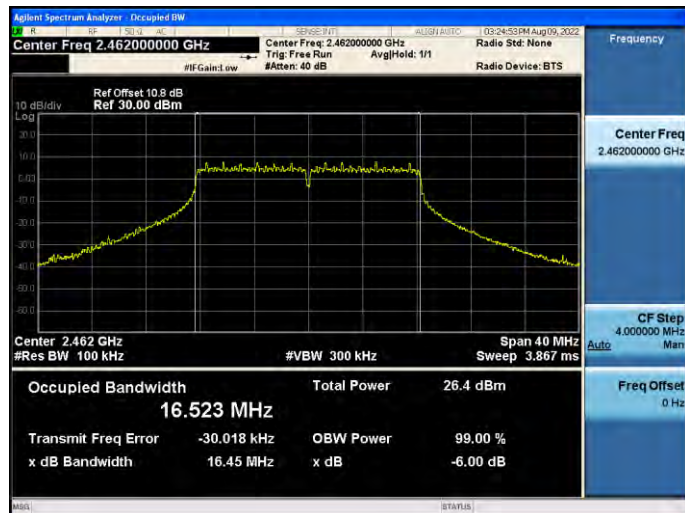
2412 MHz



2437 MHz

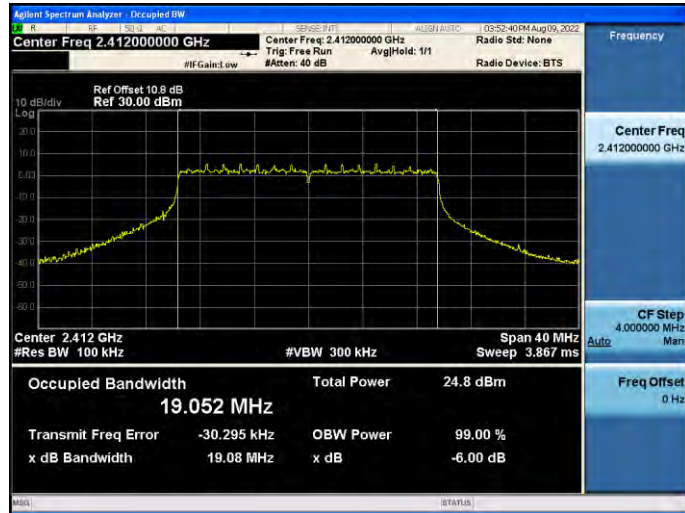


2462 MHz

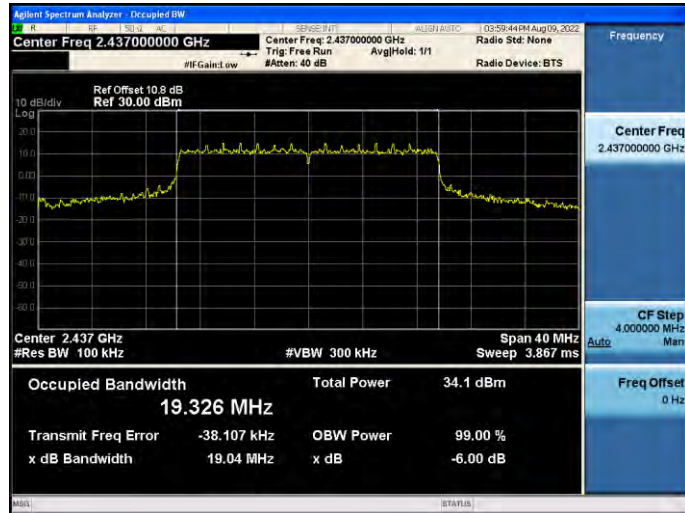


Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode\_ANT-1

2412 MHz



2437 MHz



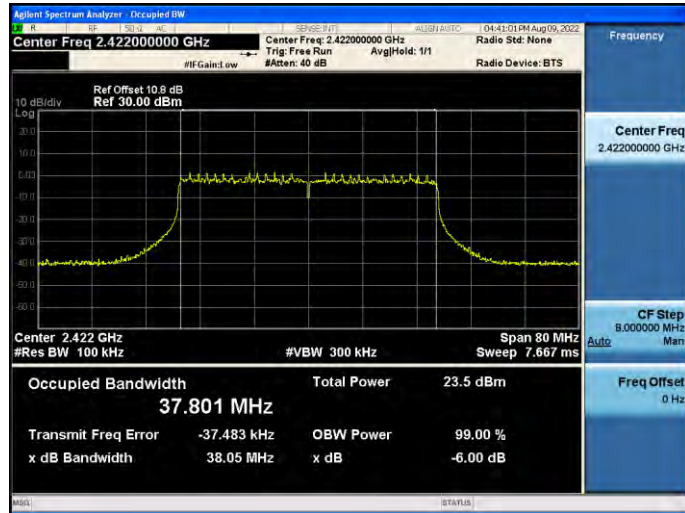
2462 MHz



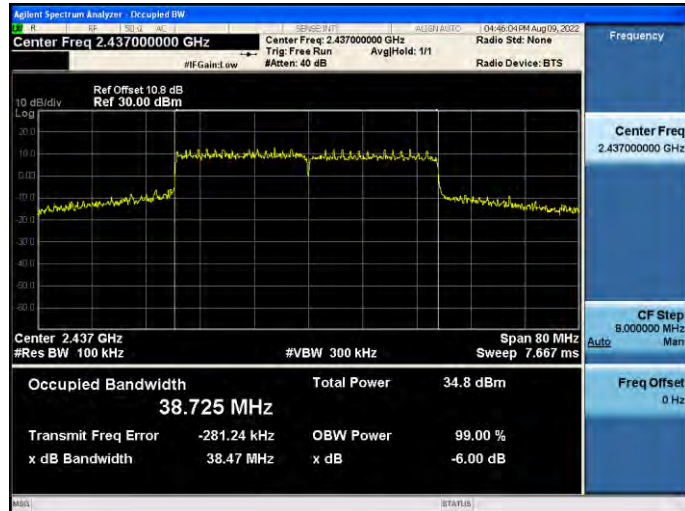


Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode\_ANT-1

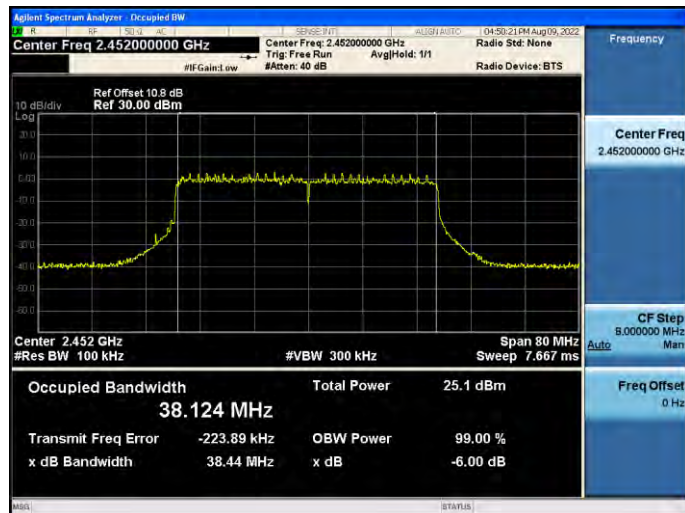
2422 MHz



2437 MHz



2452 MHz

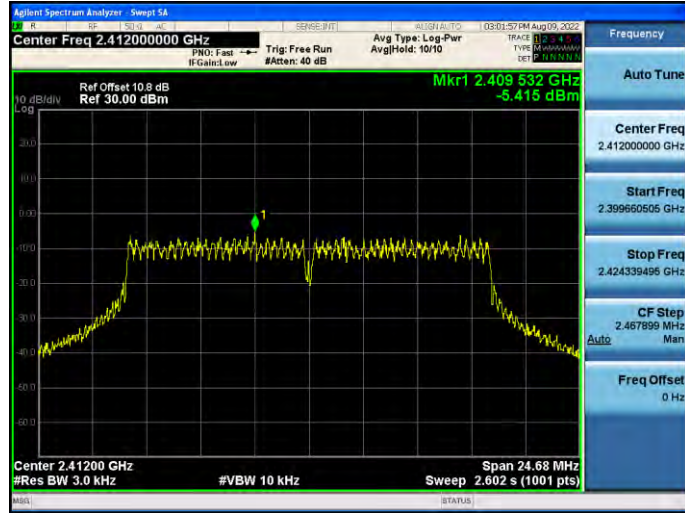


**Maximum Power Spectral Density Measurement**

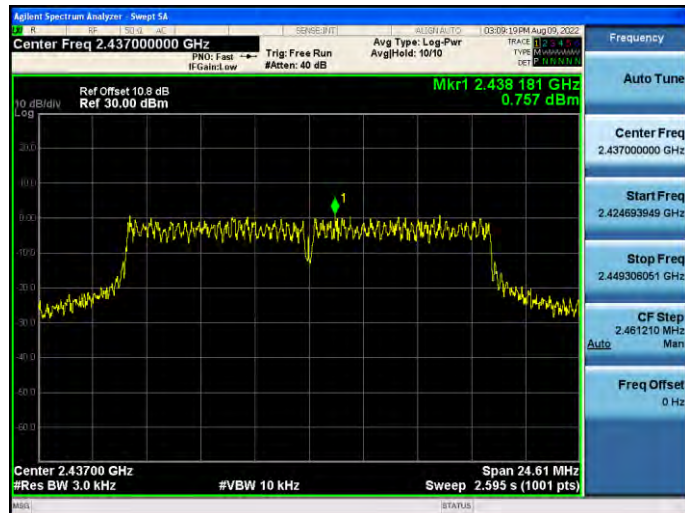
Test Mode	Frequency (MHz)	Measurement(dBm/3 kHz)			Limit (dBm/ 3 kHz)
		ANT-0	ANT-1	ANT-0+1	
Mode 2	2412	---	-0.038	---	≤ 8
	2437	---	4.877	---	≤ 8
	2462	---	3.897	---	≤ 8
Mode 3	2412	-5.415	-5.854	-2.619	≤ 8
	2437	0.757	0.720	3.749	≤ 8
	2462	-5.479	-6.155	-2.794	≤ 8
Mode 6	2412	-9.576	-9.015	-6.276	≤ 8
	2437	0.162	-0.228	2.982	≤ 8
	2462	-8.557	-8.582	-5.559	≤ 8
Mode 7	2422	-13.736	-13.289	-10.496	≤ 8
	2437	-2.346	-2.421	0.627	≤ 8
	2452	-11.938	-11.159	-8.521	≤ 8

Mode 3: IEEE 802.11g Continuous TX mode\_ANT-0

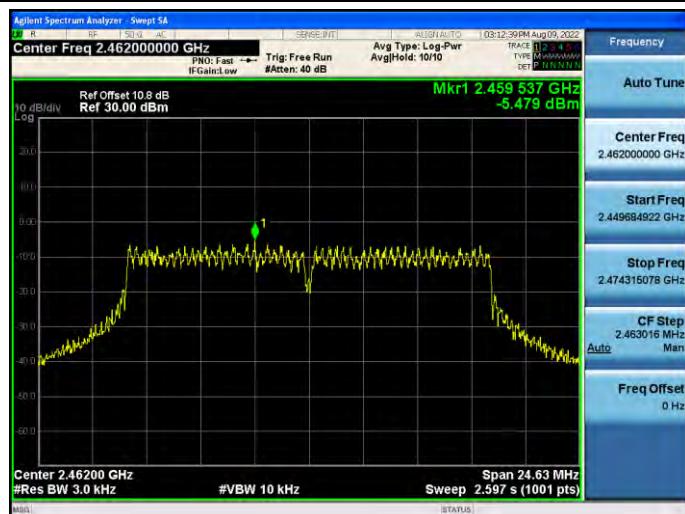
2412 MHz



2437 MHz

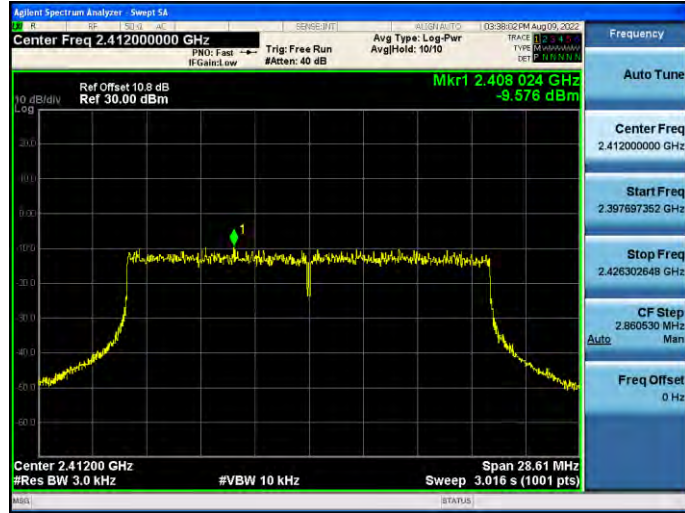


2462 MHz



Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode\_ANT-0

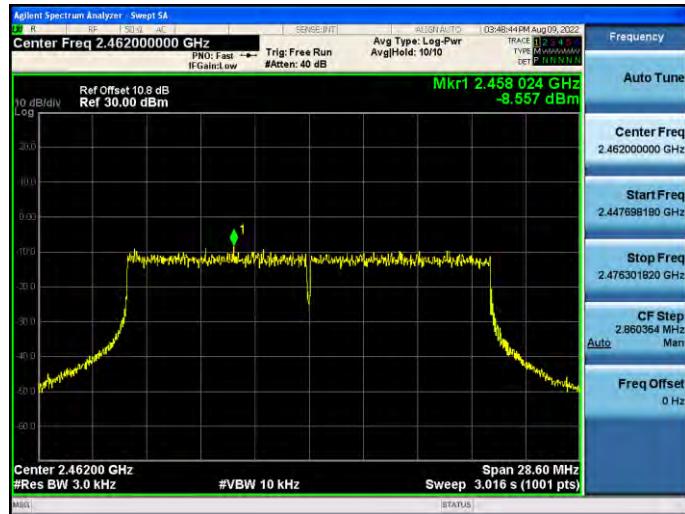
2412 MHz



2437 MHz

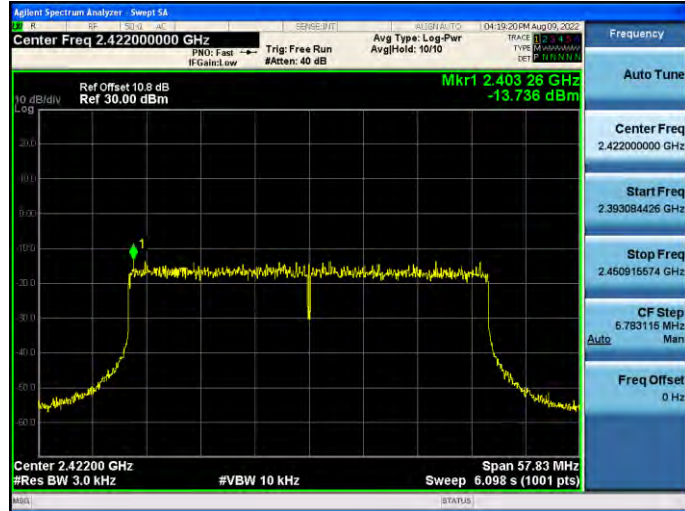


2462 MHz



Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode\_ANT-0

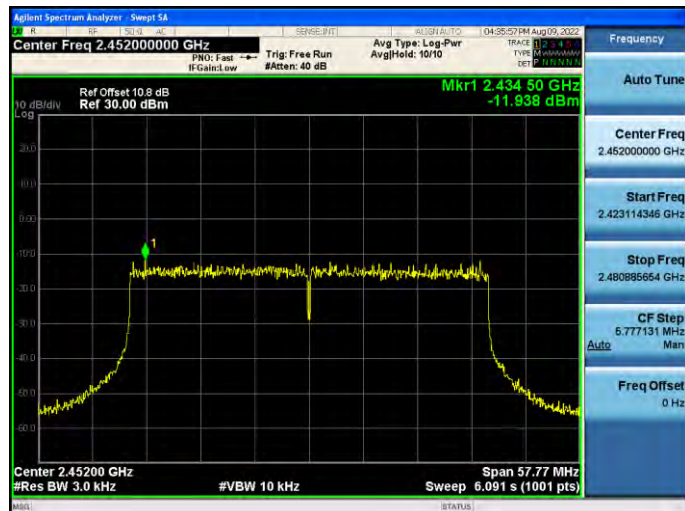
2422 MHz



2437 MHz



2452 MHz



Mode 2: IEEE 802.11b Continuous TX mode\_ANT-1

2412 MHz



2437 MHz

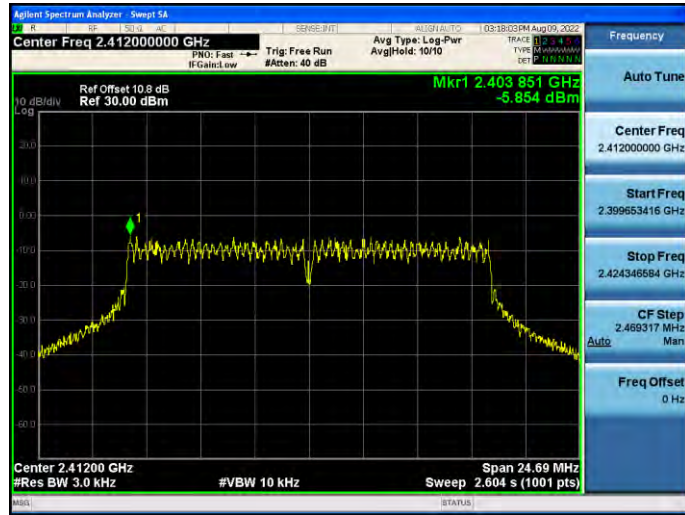


2462 MHz

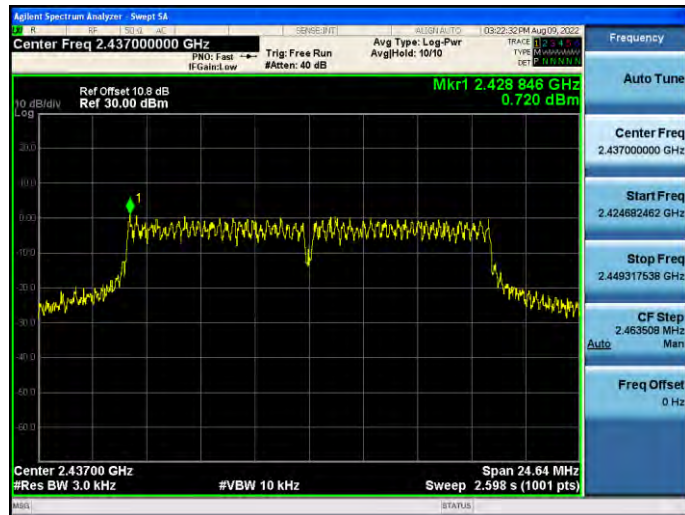


Mode 3: IEEE 802.11g Continuous TX mode\_ANT-1

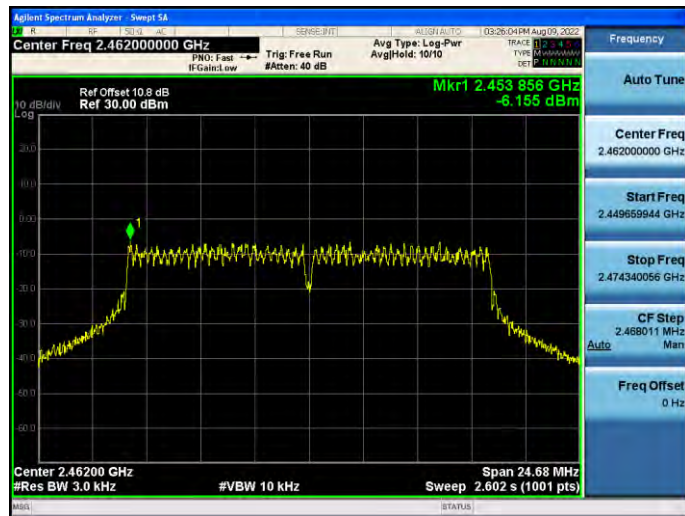
2412 MHz



2437 MHz

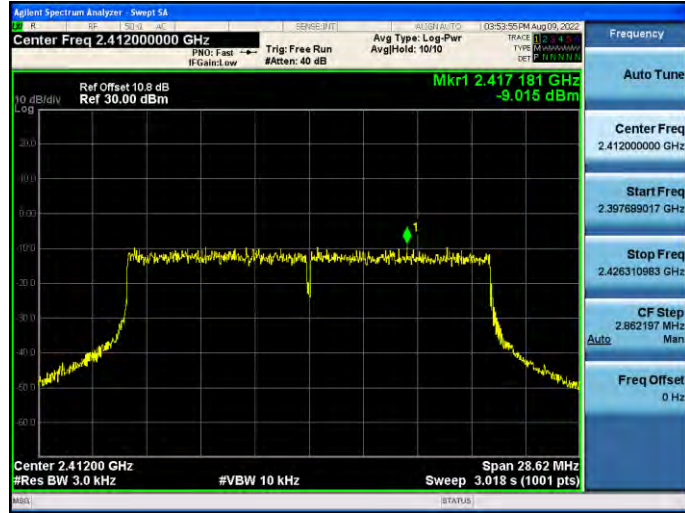


2462 MHz



Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode\_ANT-1

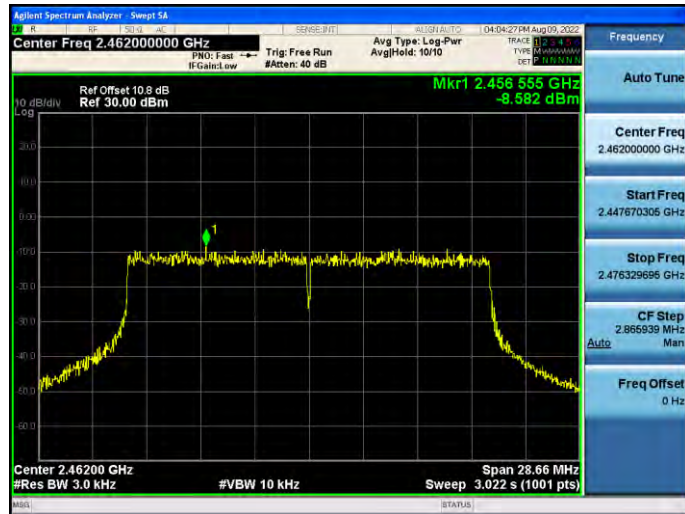
2412 MHz



2437 MHz



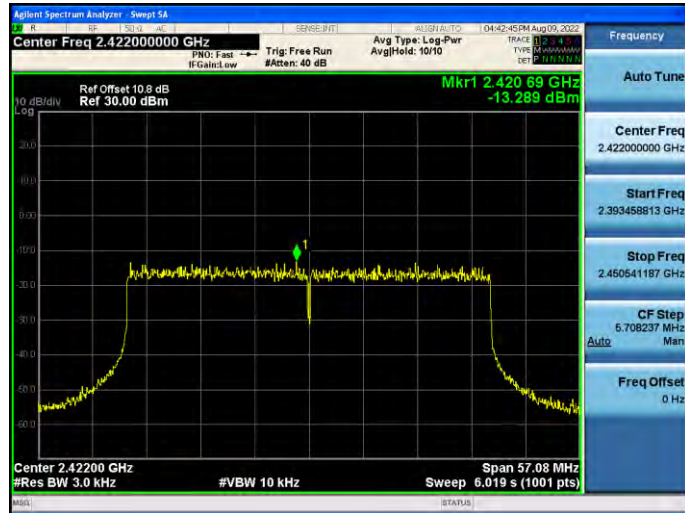
2462 MHz



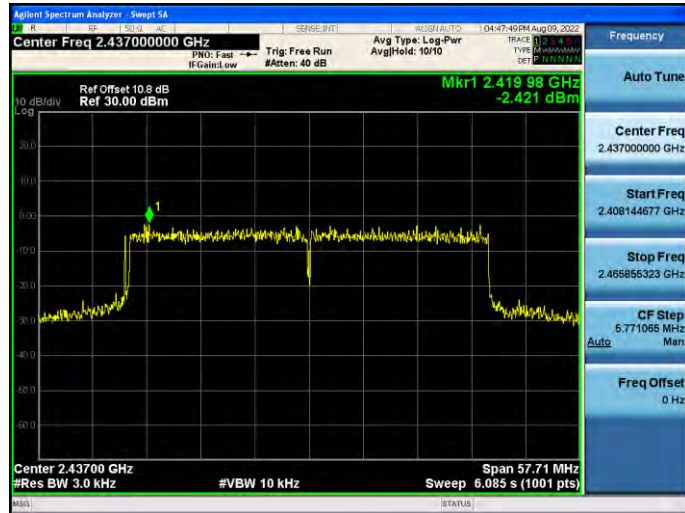


Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode\_ANT-1

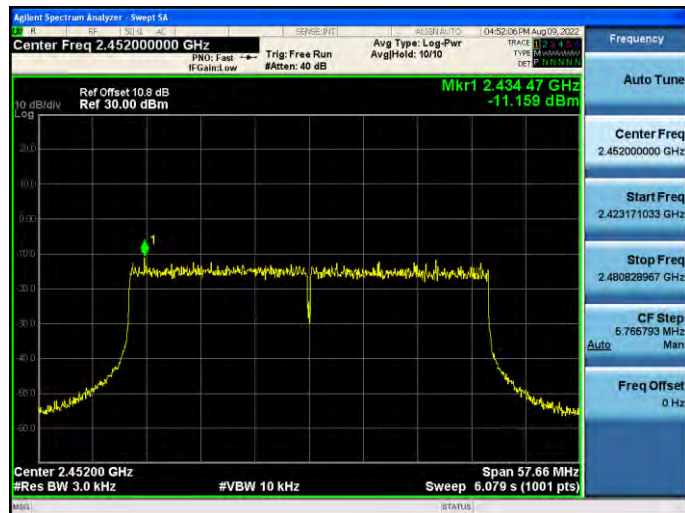
2422 MHz



2437 MHz



2452 MHz



Out of Band Conducted Emissions Measurement

■ Test Graphs

Reference level

Mode 3: IEEE 802.11g Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode\_ANT-0

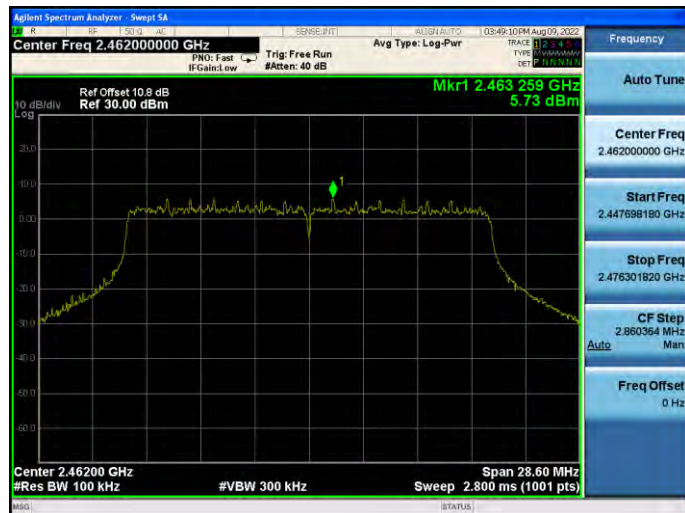
2412 MHz



2437 MHz



2462 MHz



Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode\_ANT-0

2422 MHz



2437 MHz



2452 MHz

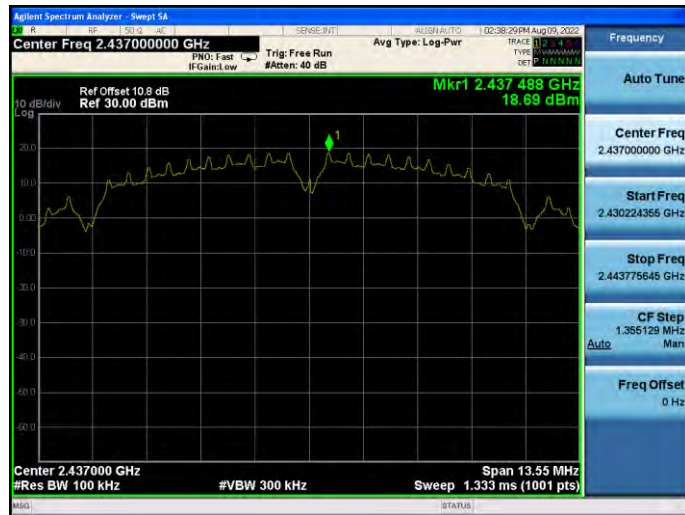


Mode 2: IEEE 802.11b Continuous TX mode\_ANT-1

2412 MHz



2437 MHz



2462 MHz



Mode 3: IEEE 802.11g Continuous TX mode\_ANT-1

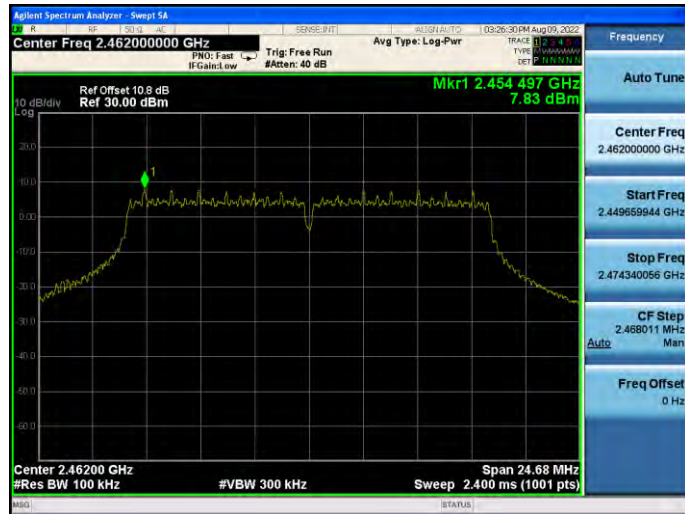
2412 MHz



2437 MHz



2462 MHz



Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode\_ANT-1

2412 MHz



2437 MHz

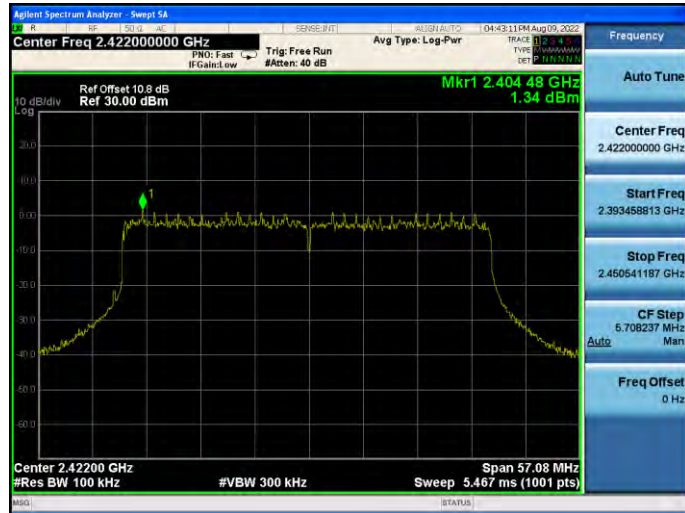


2462 MHz



Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode\_ANT-1

2422 MHz



2437 MHz



2452 MHz





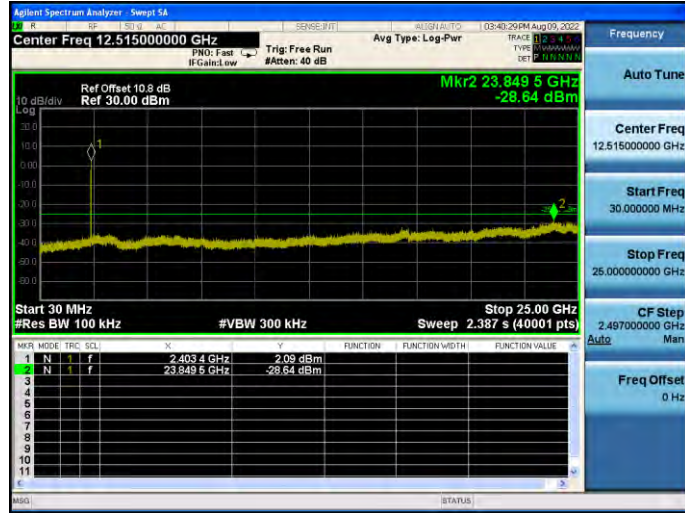
Out of Band Conducted Emissions

Mode 3: IEEE 802.11g Continuous TX mode\_ANT-0

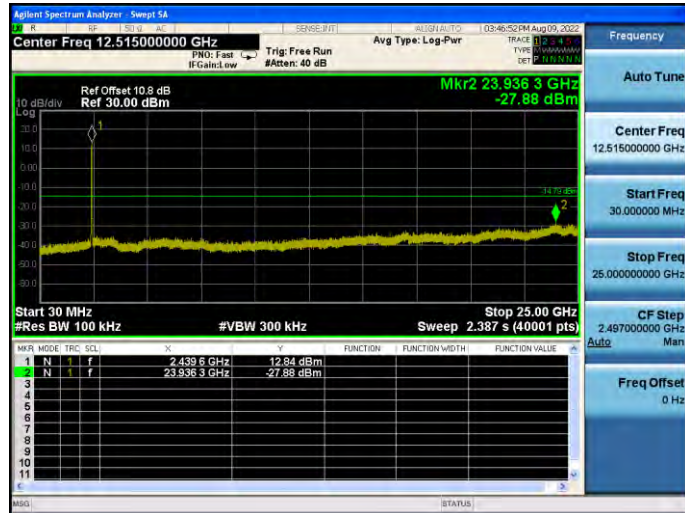
<p>2412 MHz</p>	
<p>2437 MHz</p>	
<p>2462 MHz</p>	

Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode\_ANT-0

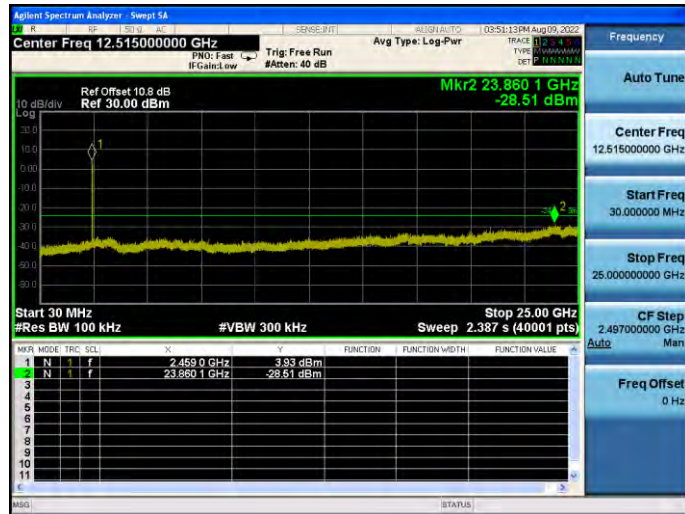
2412 MHz



2437 MHz

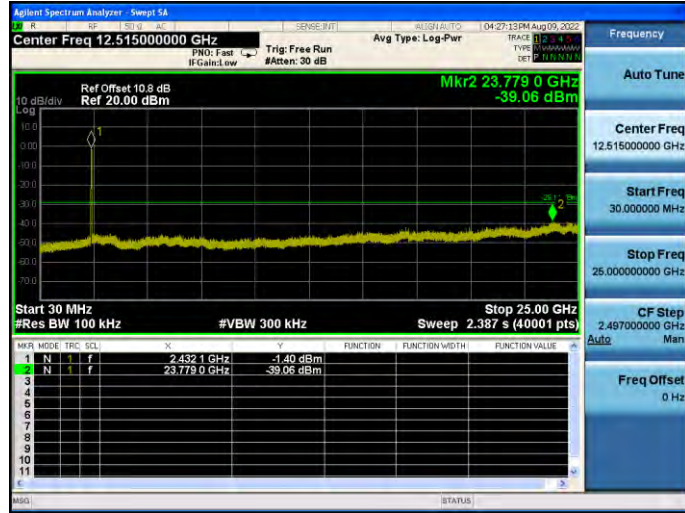


2462 MHz

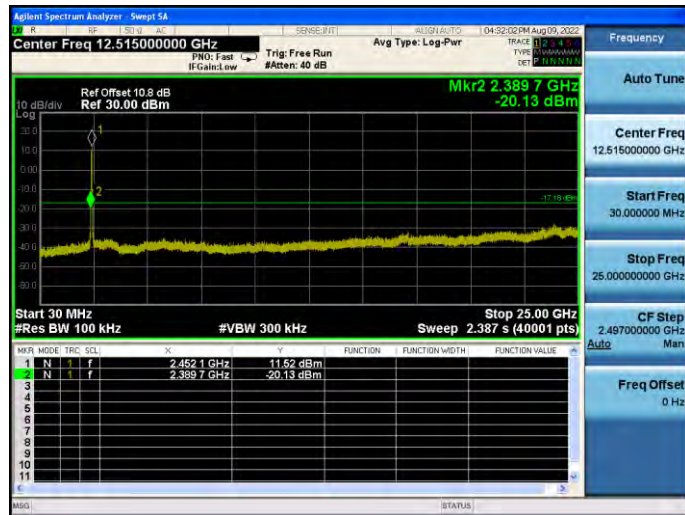


Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode\_ANT-0

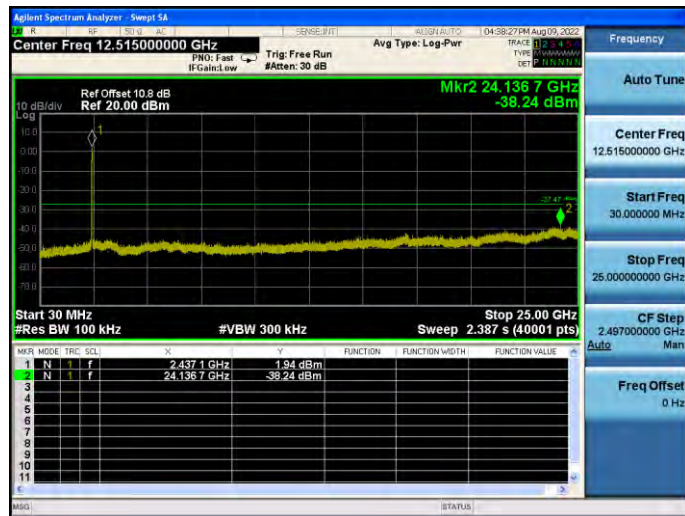
2422 MHz



2437 MHz

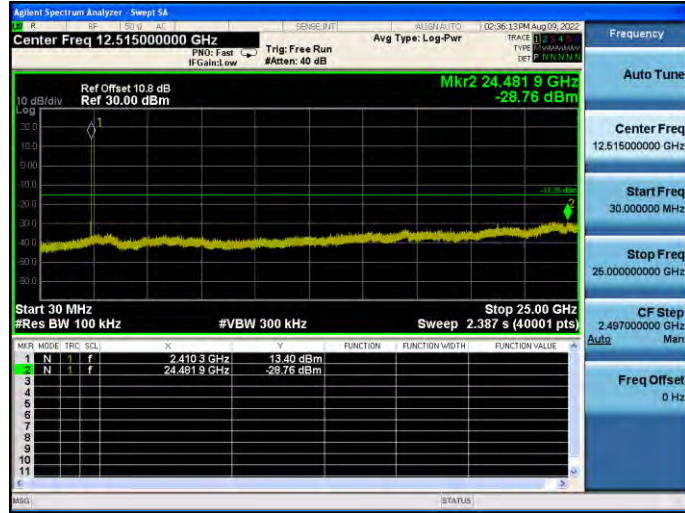


2452 MHz

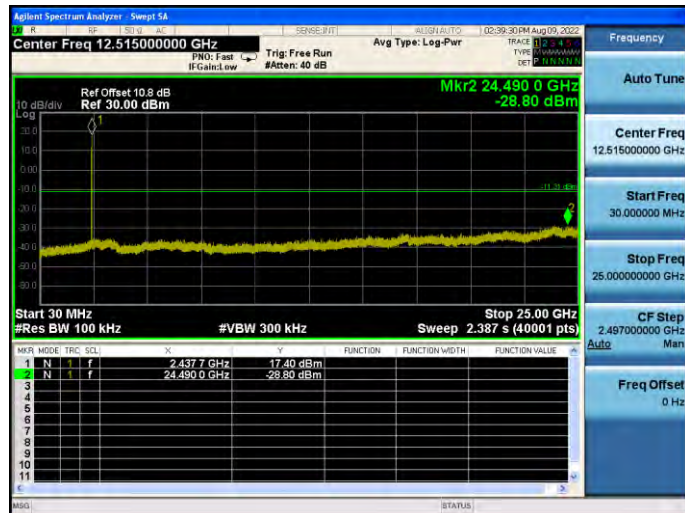


Mode 2: IEEE 802.11b Continuous TX mode\_ANT-1

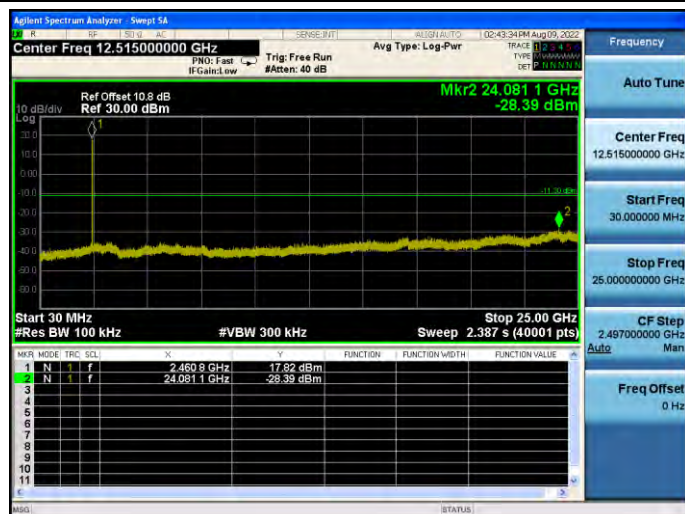
2412 MHz



2437 MHz

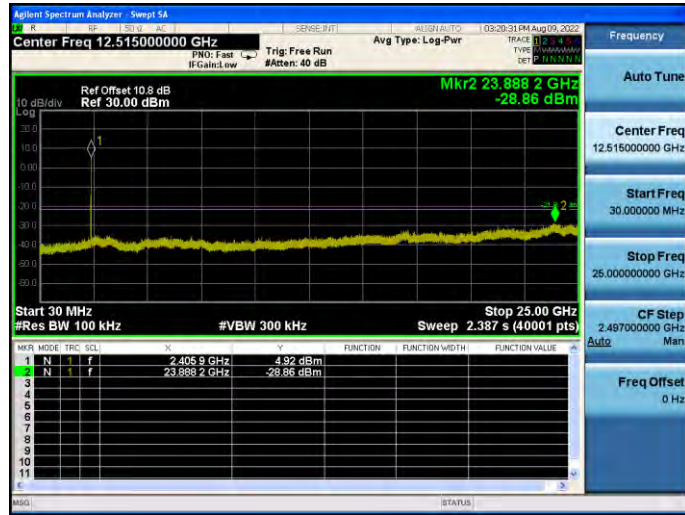


2462 MHz

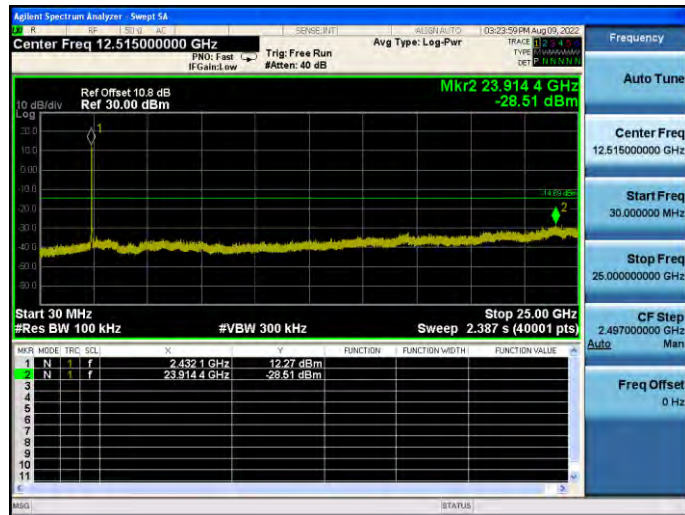


Mode 3: IEEE 802.11g Continuous TX mode\_ANT-1

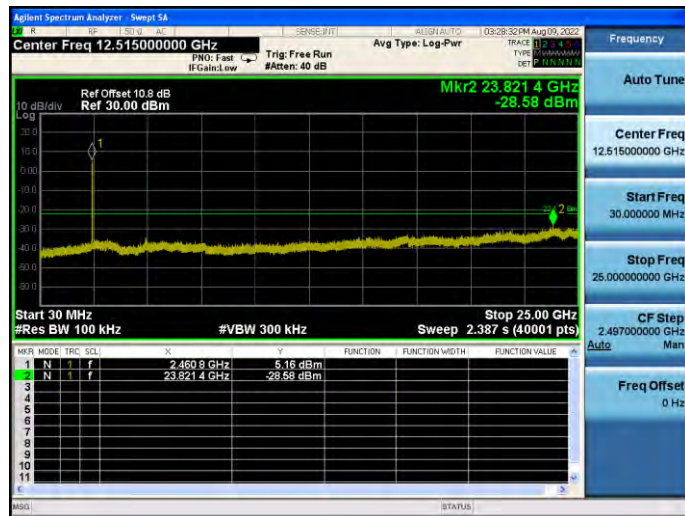
2412 MHz



2437 MHz

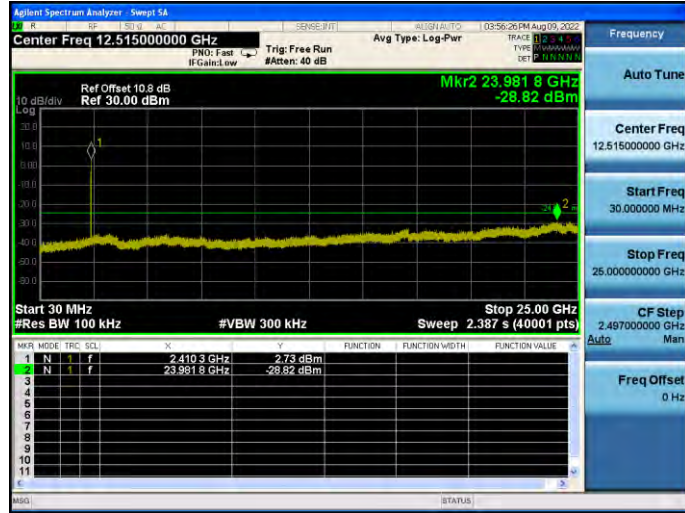


2462 MHz

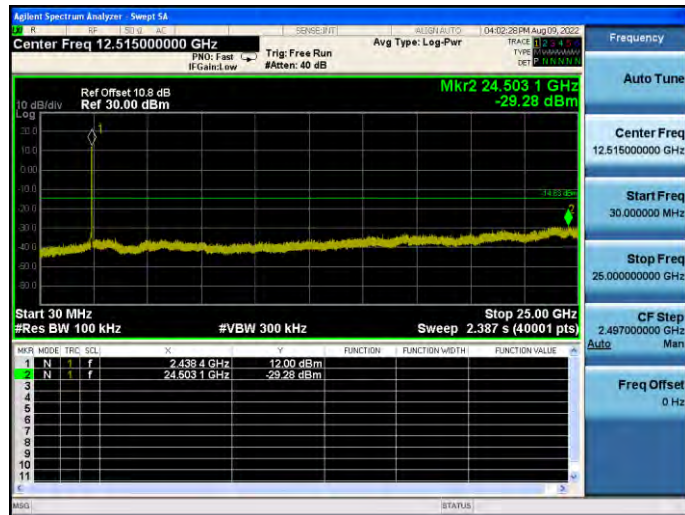


Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode\_ANT-1

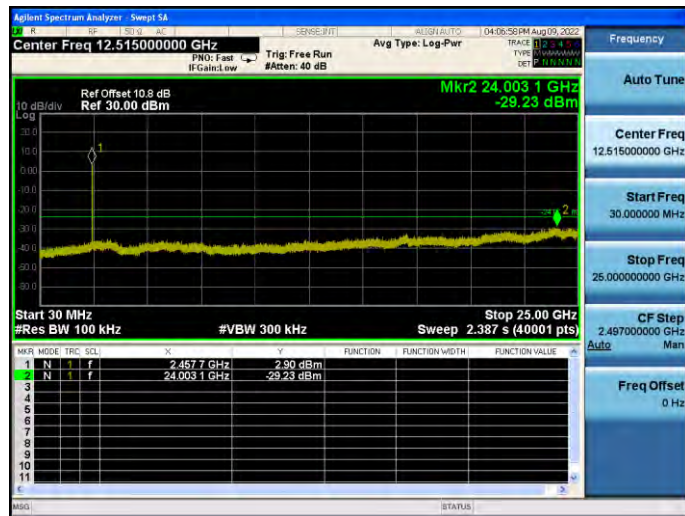
2412 MHz



2437 MHz

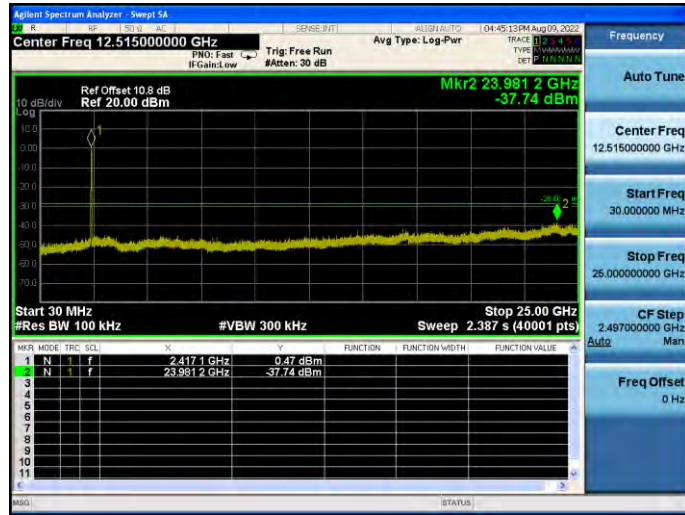


2462 MHz

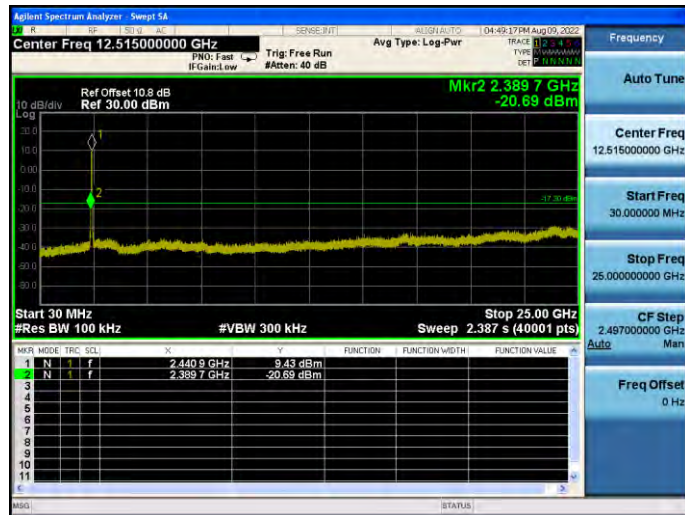


Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode\_ANT-1

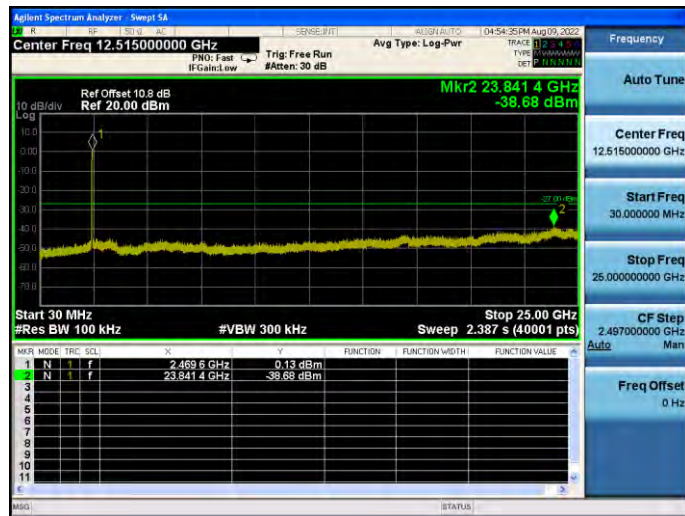
2422 MHz



2437 MHz



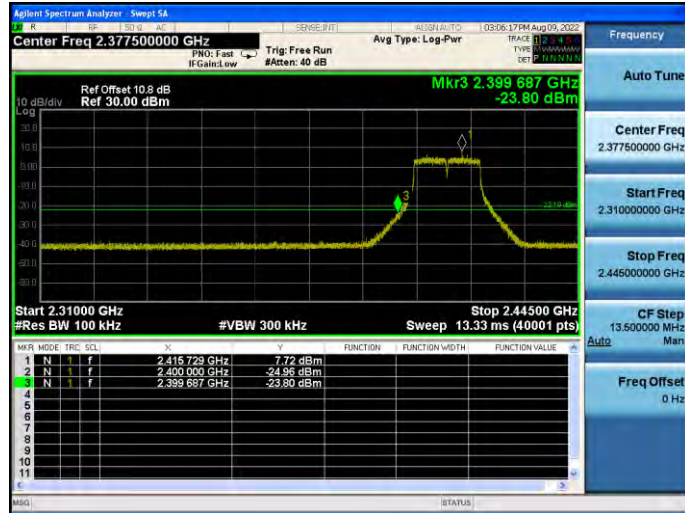
2452 MHz



Conducted Band Edge

Mode 3: IEEE 802.11g Continuous TX mode\_ANT-0

2412 MHz



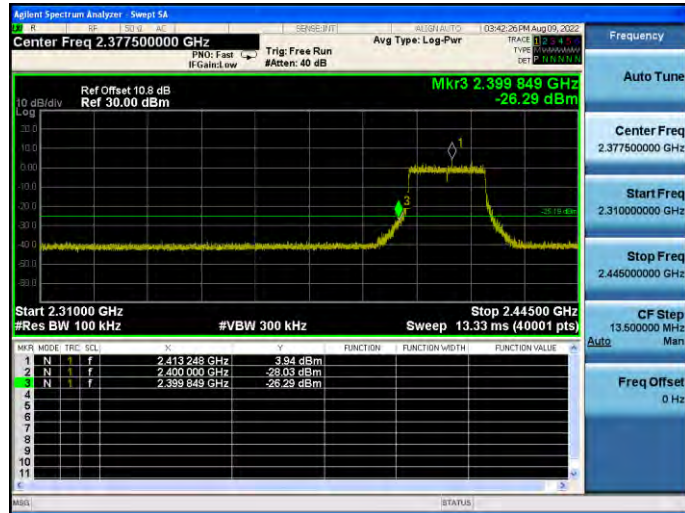
2462 MHz



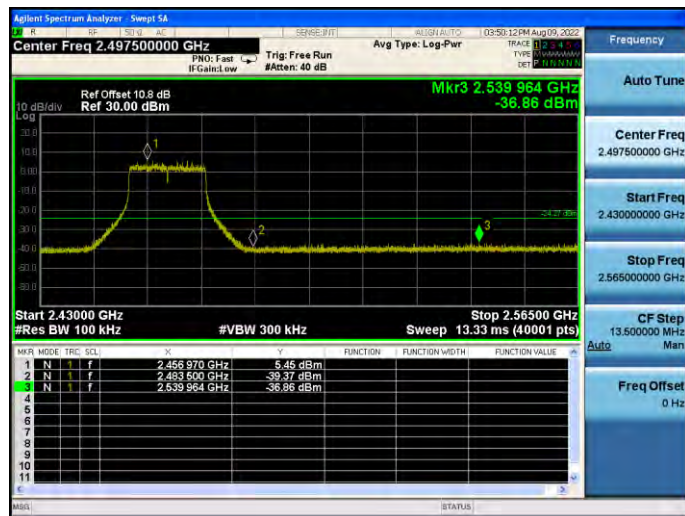


Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode\_ANT-0

2412 MHz

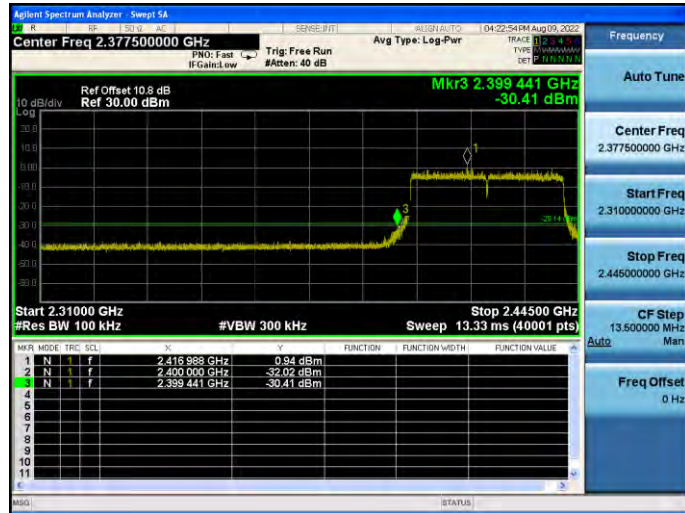


2462 MHz

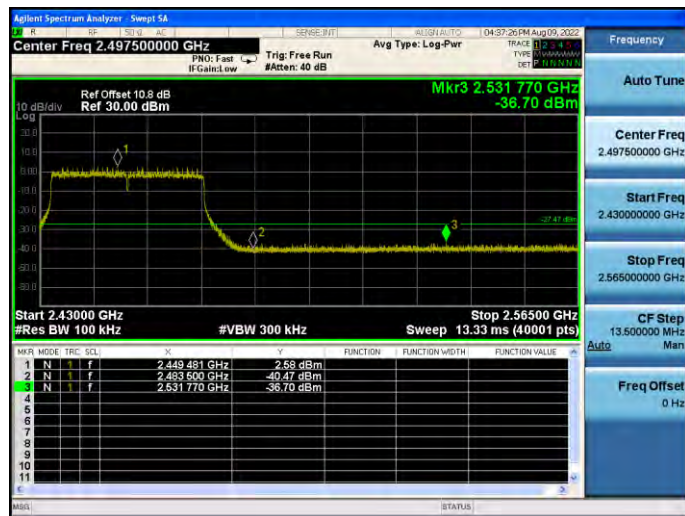


Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode\_ANT-0

2422 MHz

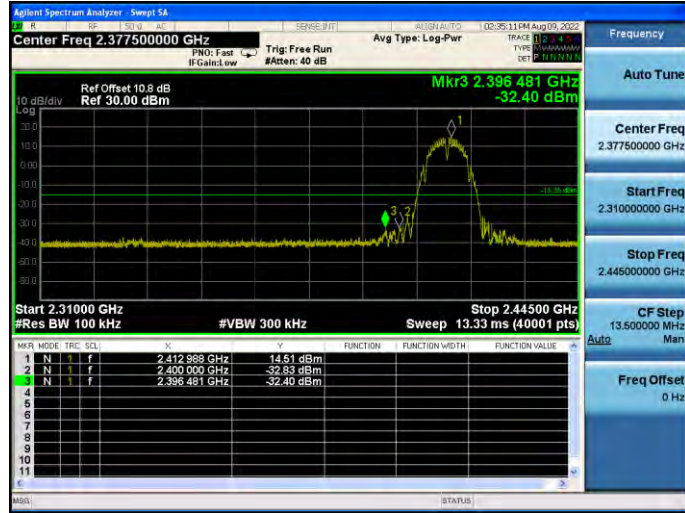


2452 MHz

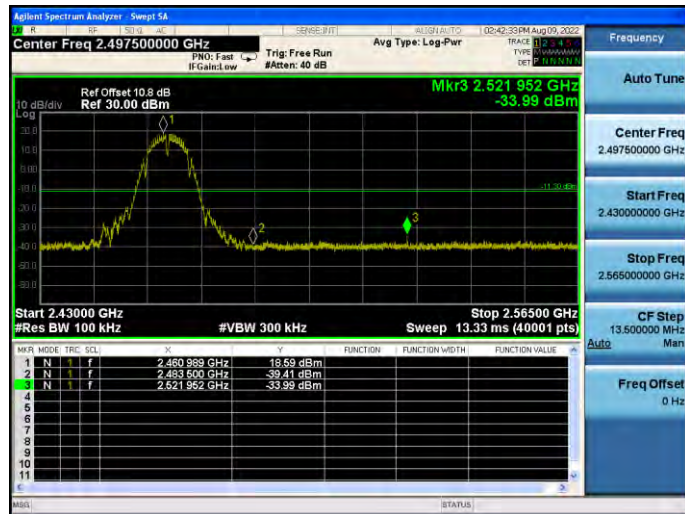


Mode 2: IEEE 802.11b Continuous TX mode\_ANT-1

2412 MHz

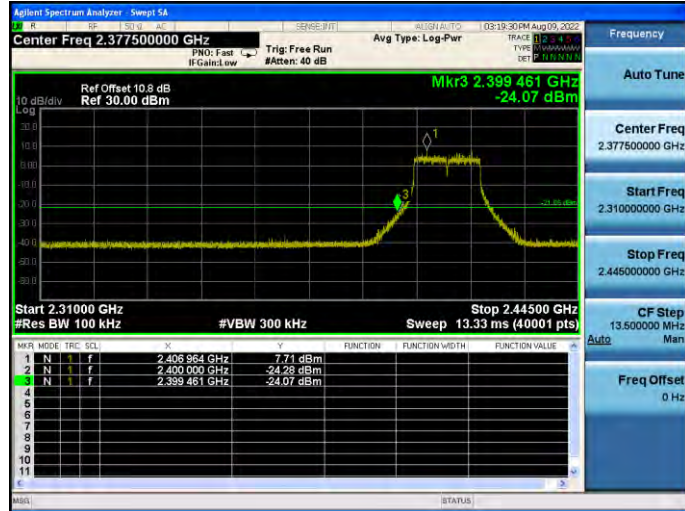


2462 MHz

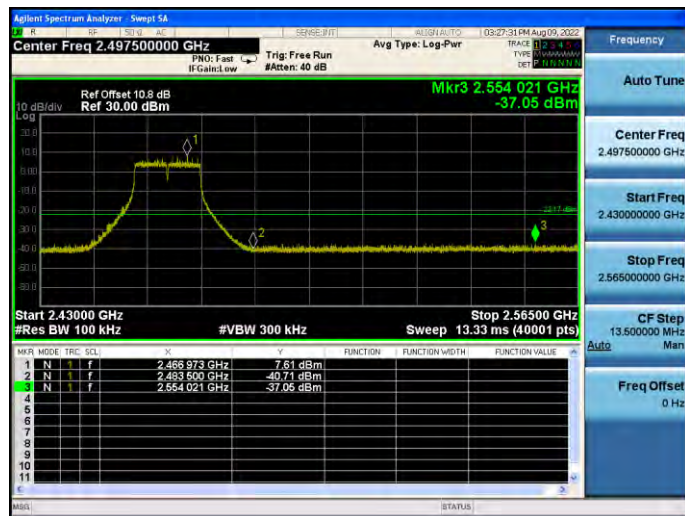


Mode 3: IEEE 802.11g Continuous TX mode\_ANT-1

2412 MHz

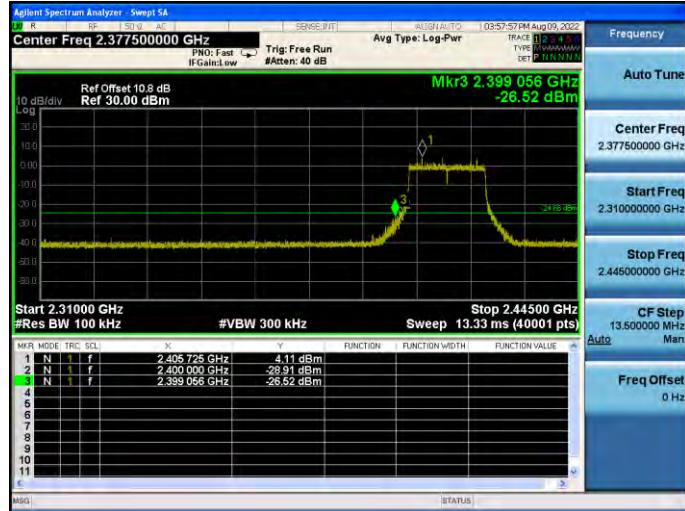


2462 MHz

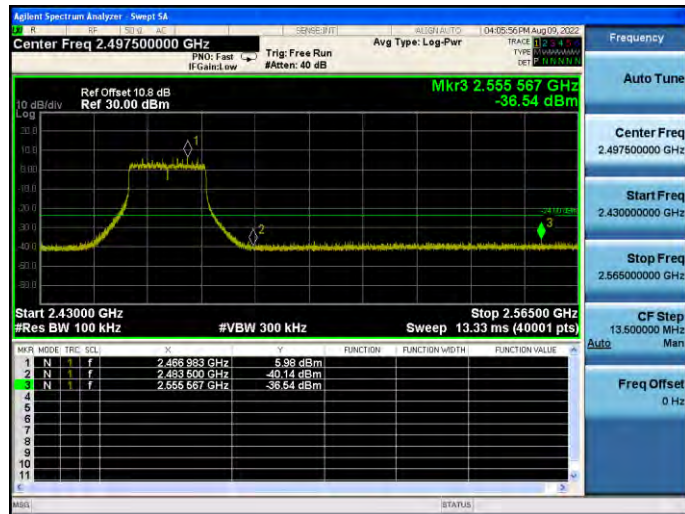


Mode 6: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX Mode\_ANT-1

2412 MHz

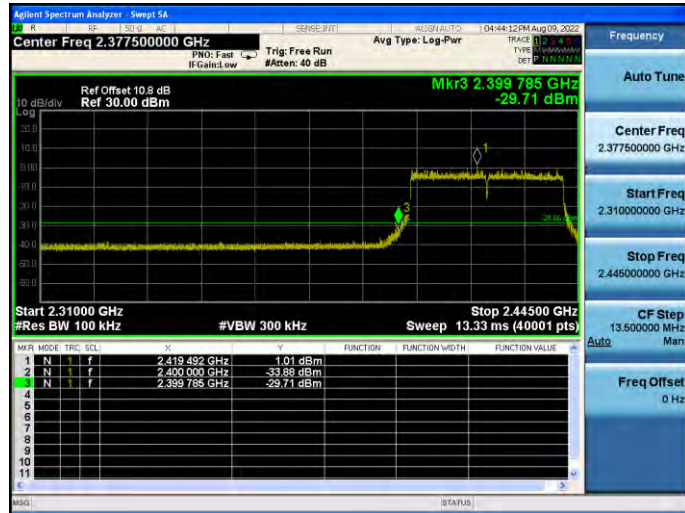


2462 MHz

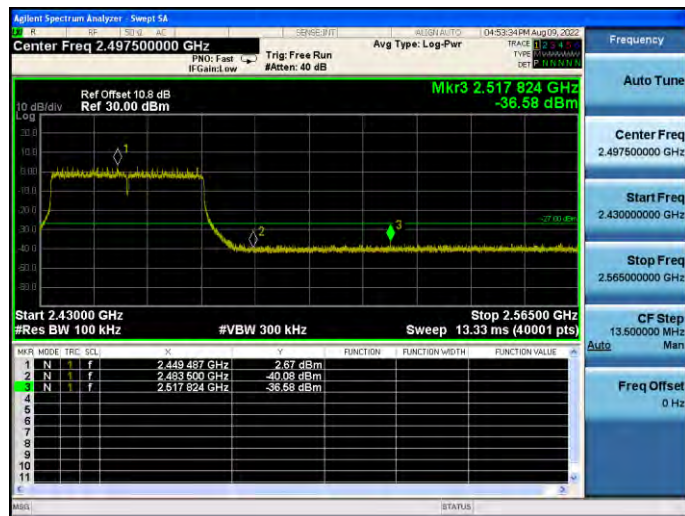


Mode 7: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX Mode\_ANT-1

2422 MHz



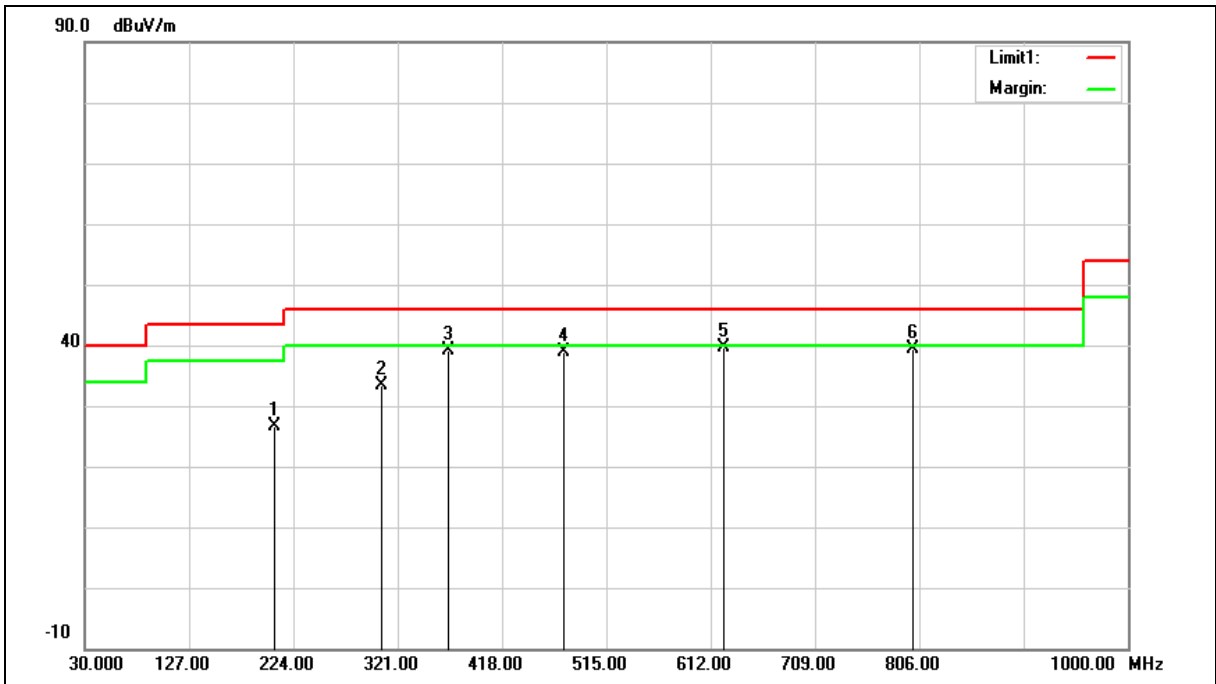
2452 MHz



### 5.3. Radiated Emission Measurement

Below 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Frequency:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



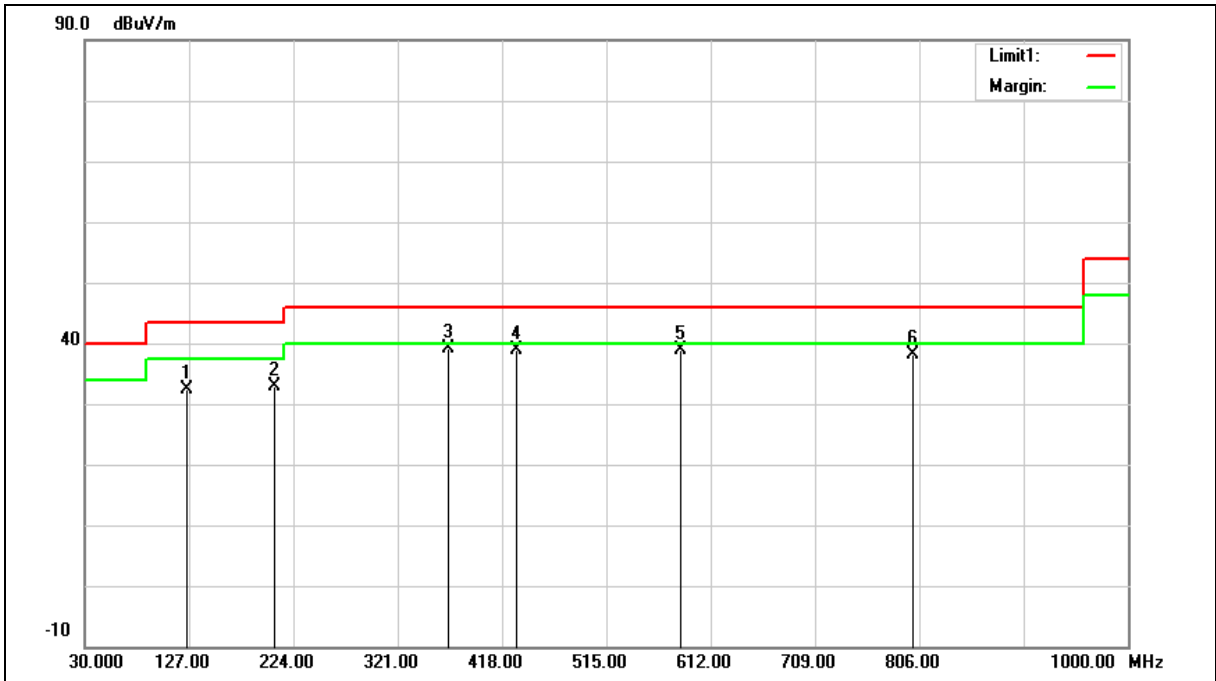
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	206.5400	35.83	-9.10	26.73	43.50	-16.77	QP
2	305.4800	39.11	-5.81	33.30	46.00	-12.70	QP
3	368.5300	43.45	-4.36	39.09	46.00	-6.91	QP
4	475.2300	41.01	-2.21	38.80	46.00	-7.20	QP
5	624.6100	38.33	1.25	39.58	46.00	-6.42	QP
6	800.1800	34.97	4.45	39.42	46.00	-6.58	QP

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
Frequency:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	125.0600	41.32	-8.93	32.39	43.50	-11.11	QP
2	206.5400	42.00	-9.10	32.90	43.50	-10.60	QP
3	368.5300	43.49	-4.36	39.13	46.00	-6.87	QP
4	431.5800	41.70	-2.88	38.82	46.00	-7.18	QP
5	583.8700	38.34	0.43	38.77	46.00	-7.23	QP
6	800.1800	33.58	4.45	38.03	46.00	-7.97	QP

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).

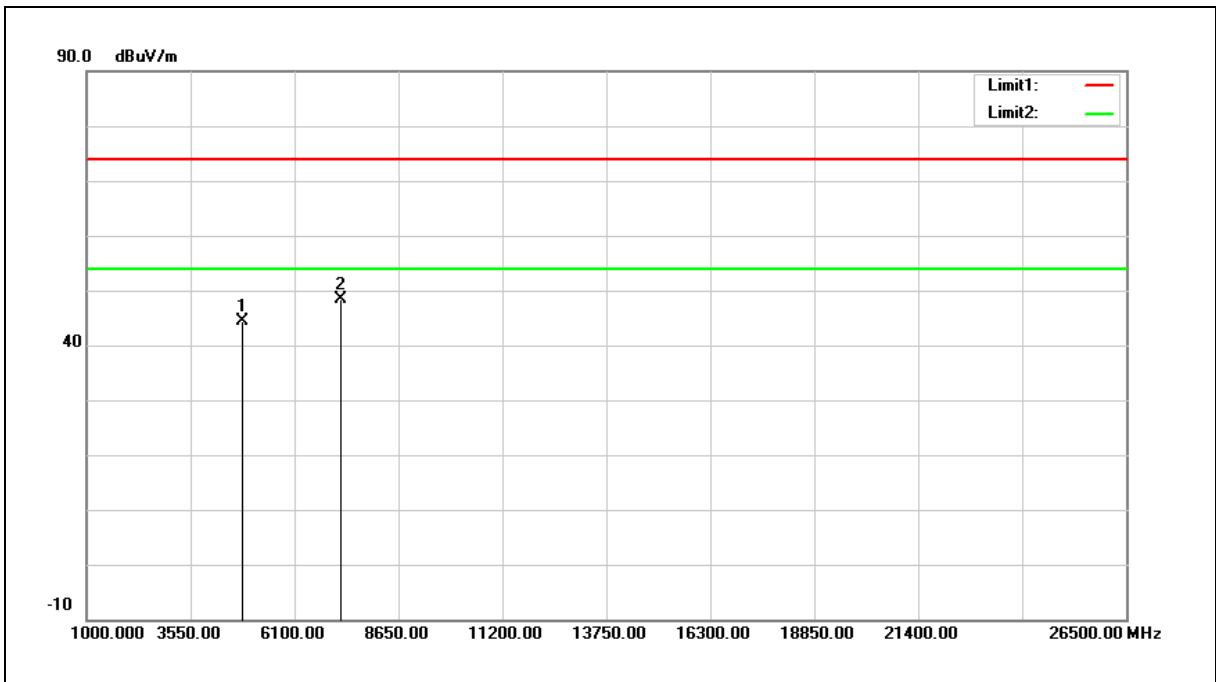
3.When the peak results are less than average limit, so not need to evaluate the average.



**Harmonic**

Above 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2412 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



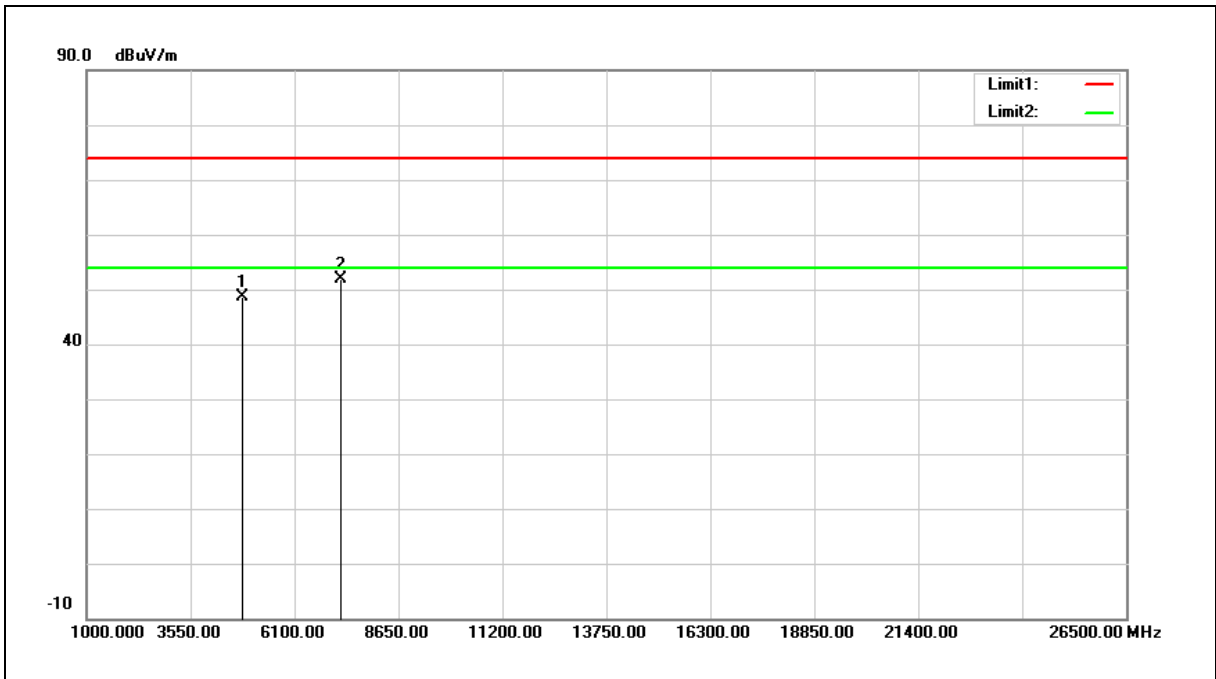
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	45.29	-0.98	44.31	74.00	-29.69	peak
2	7236.000	42.25	6.16	48.41	74.00	-25.59	peak

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.

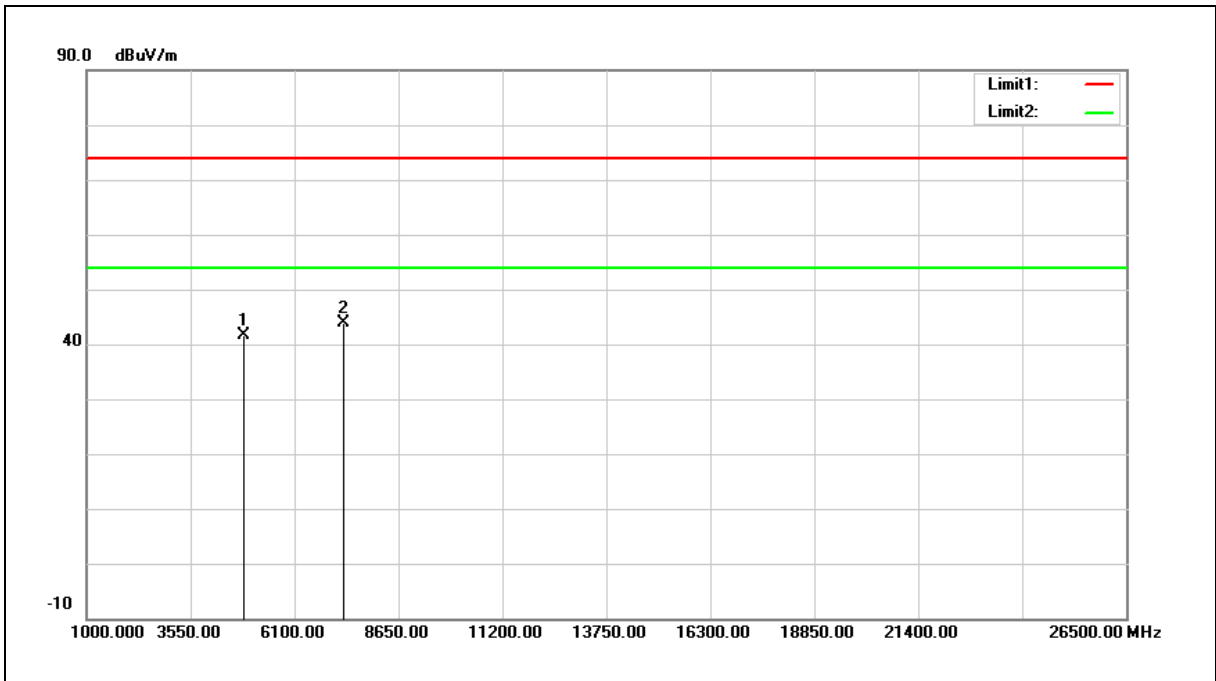
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2412 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	49.73	-0.98	48.75	74.00	-25.25	peak
2	7236.000	45.79	6.16	51.95	74.00	-22.05	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.

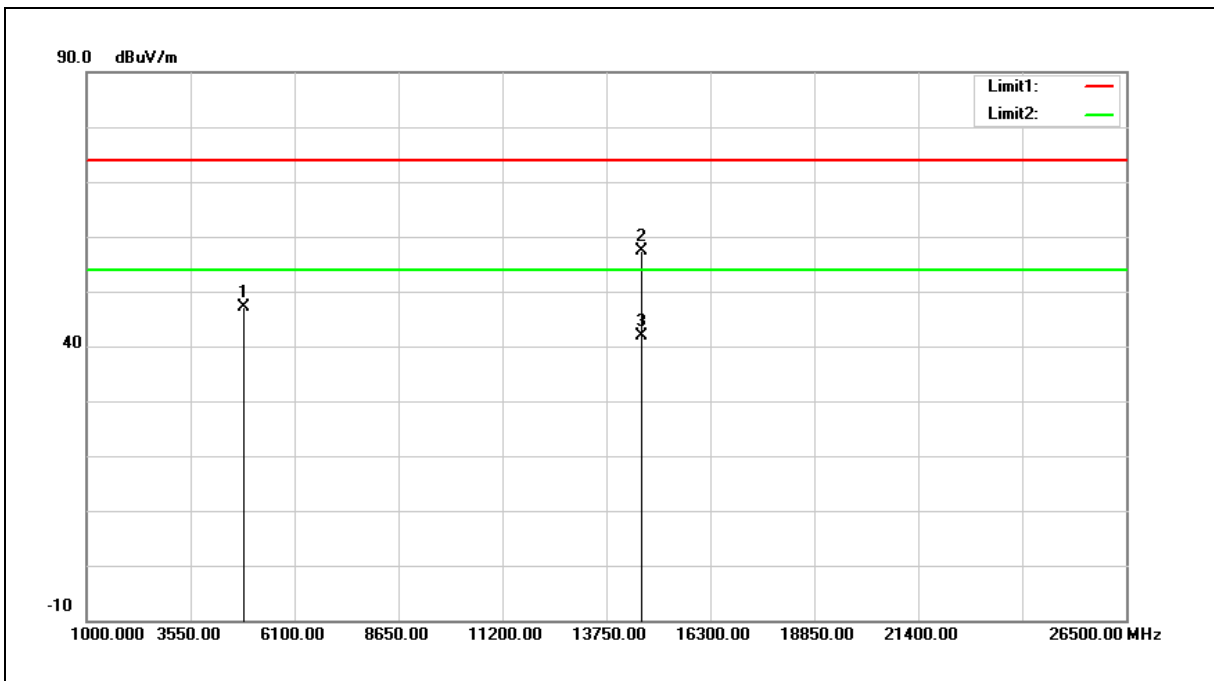
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2437 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	42.50	-0.80	41.70	74.00	-32.30	peak
2	7311.000	37.52	6.46	43.98	74.00	-30.02	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:	2437 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



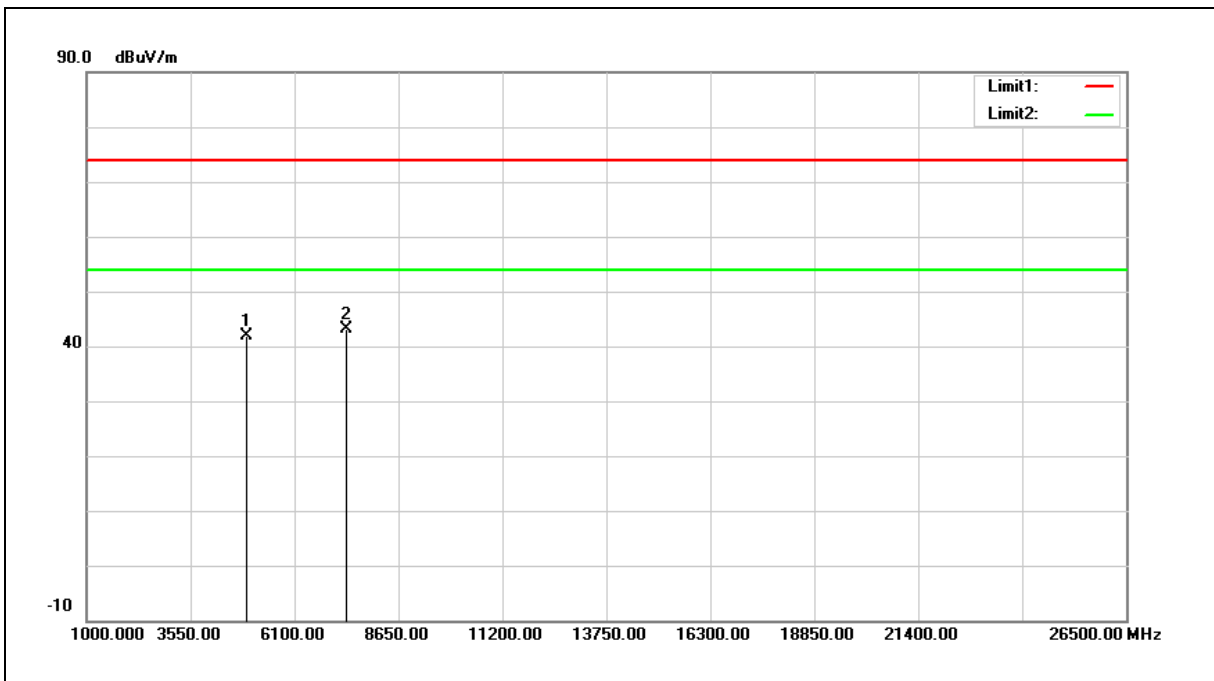
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	47.87	-0.80	47.07	74.00	-26.93	peak
2	14622.000	39.33	18.07	57.40	74.00	-16.60	peak
3	14622.000	23.81	18.07	41.88	54.00	-12.12	AVG

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.

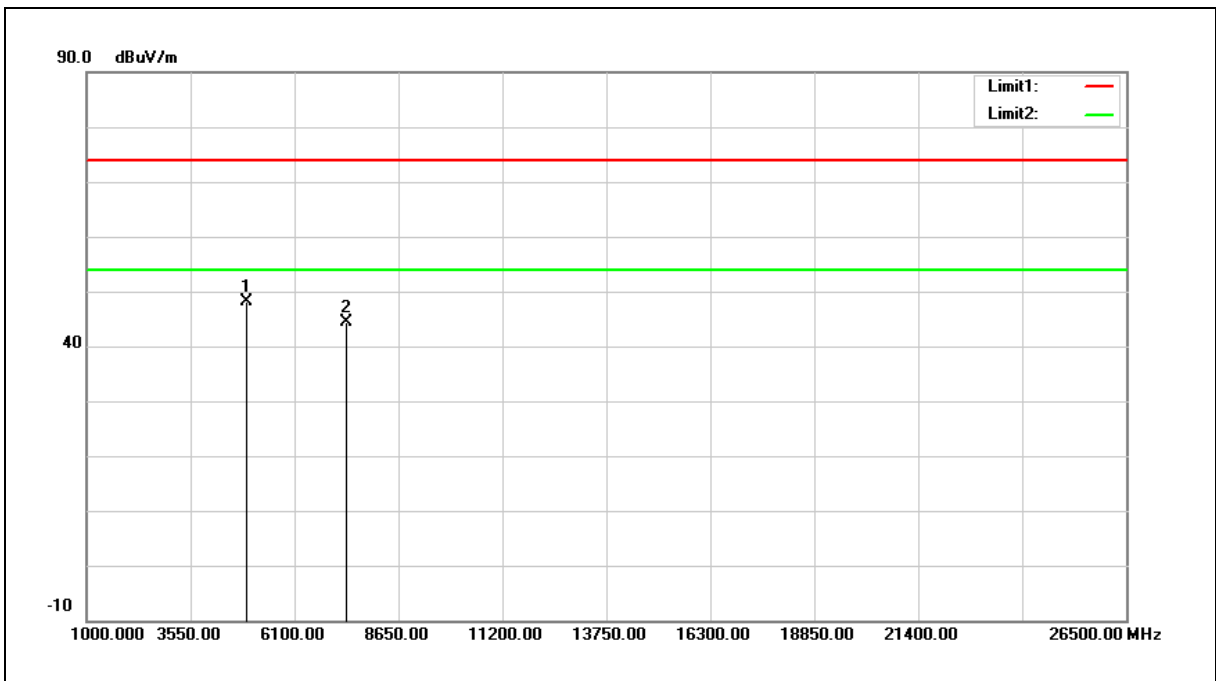
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2462 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	42.62	-0.63	41.99	74.00	-32.01	peak
2	7386.000	36.31	6.75	43.06	74.00	-30.94	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.

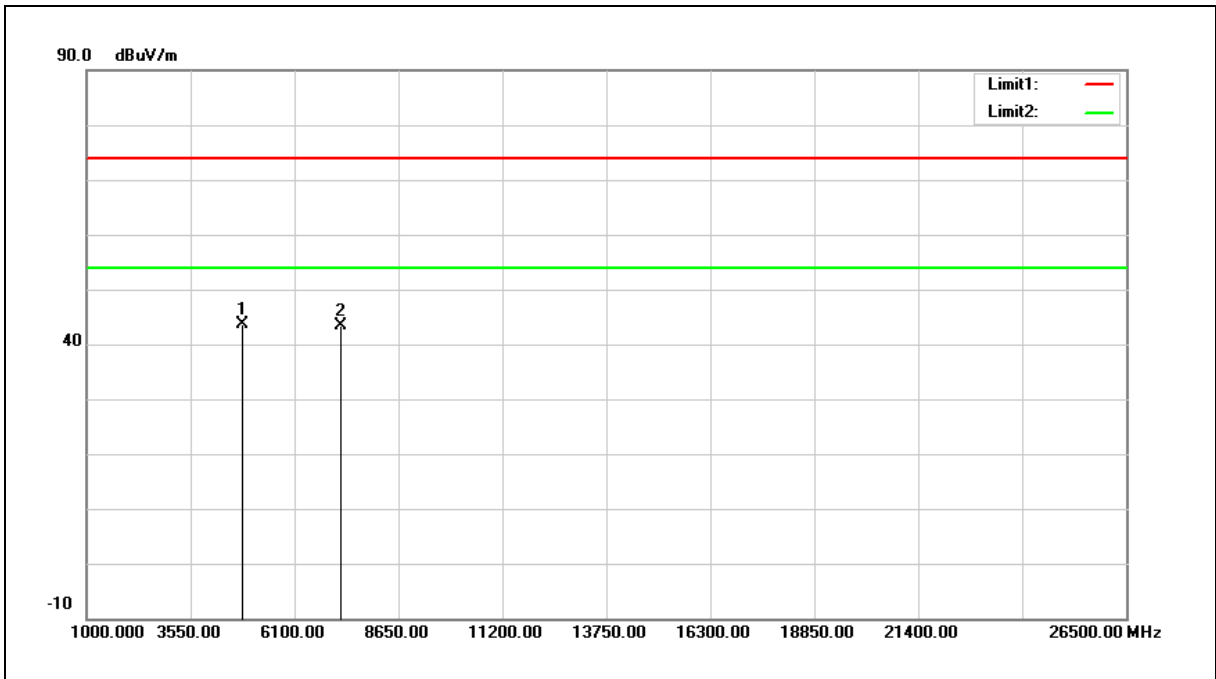
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2462 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	48.80	-0.63	48.17	74.00	-25.83	peak
2	7386.000	37.61	6.75	44.36	74.00	-29.64	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.

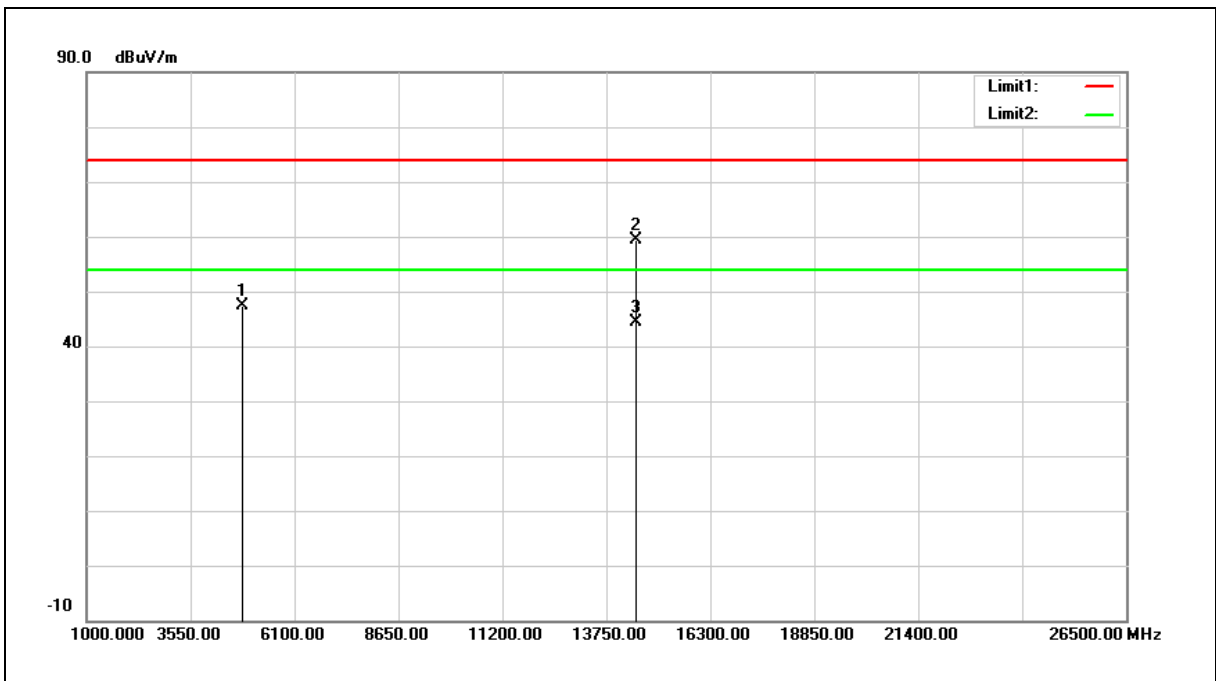
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2412 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	44.60	-0.98	43.62	74.00	-30.38	peak
2	7236.000	37.27	6.16	43.43	74.00	-30.57	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:	2412 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	48.24	-0.98	47.26	74.00	-26.74	peak
2	14472.000	41.58	17.87	59.45	74.00	-14.55	peak
3	14472.000	26.63	17.87	44.50	54.00	-9.50	AVG

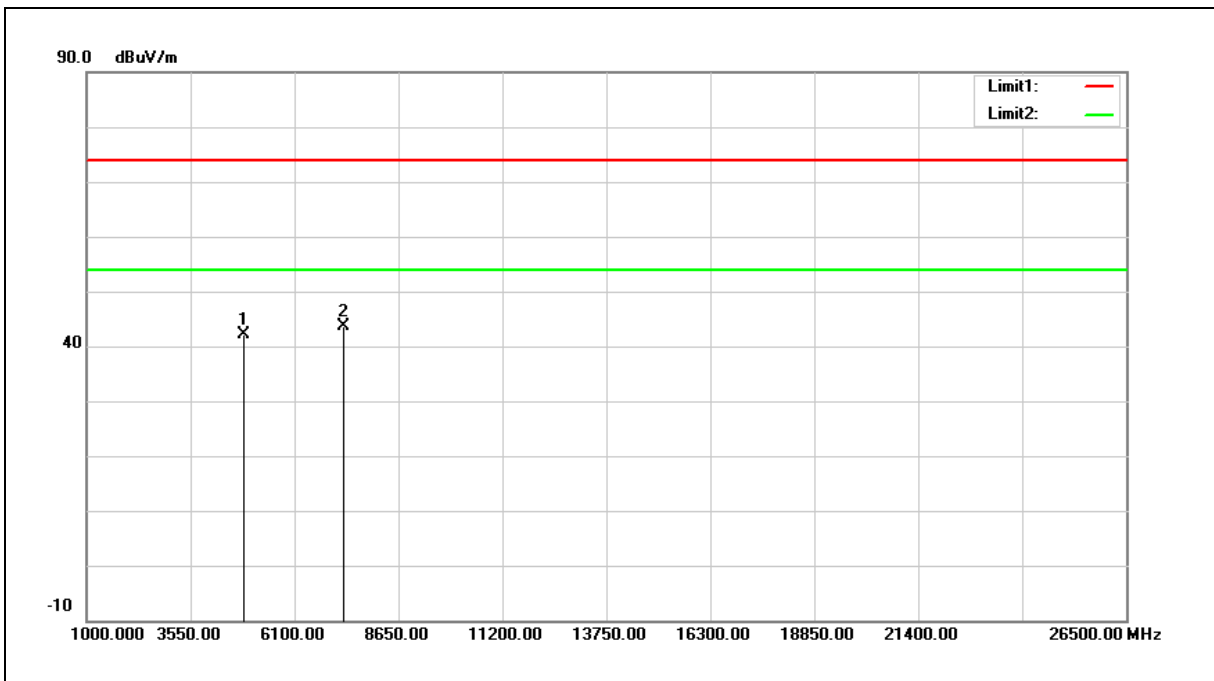
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.



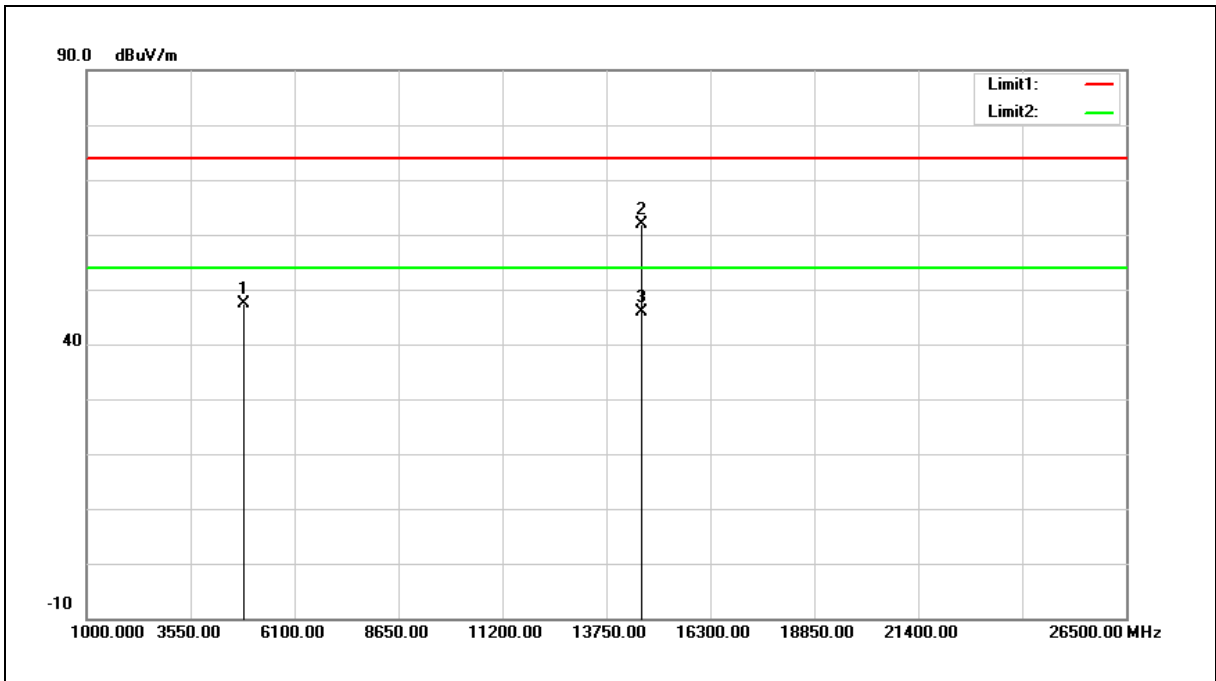
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2437 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	42.99	-0.80	42.19	74.00	-31.81	peak
2	7311.000	37.10	6.46	43.56	74.00	-30.44	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:	2437 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		



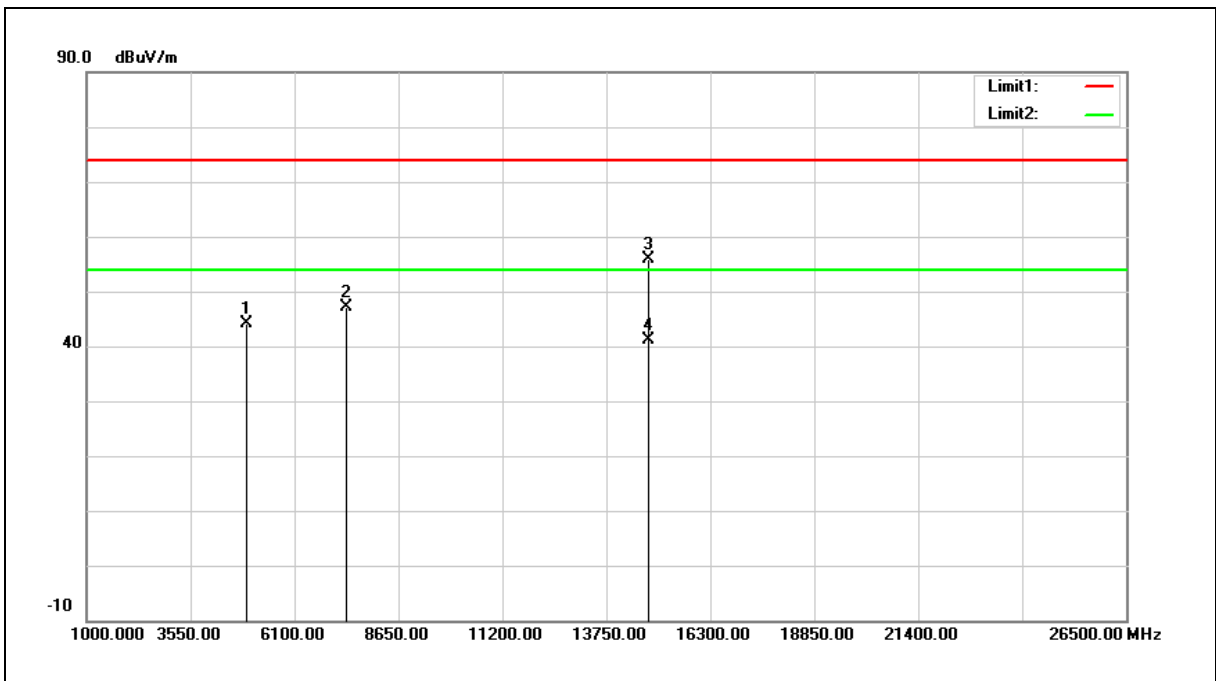
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	48.19	-0.80	47.39	74.00	-26.61	peak
2	14622.000	43.85	18.07	61.92	74.00	-12.08	peak
3	14622.000	27.75	18.07	45.82	54.00	-8.18	AVG

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.

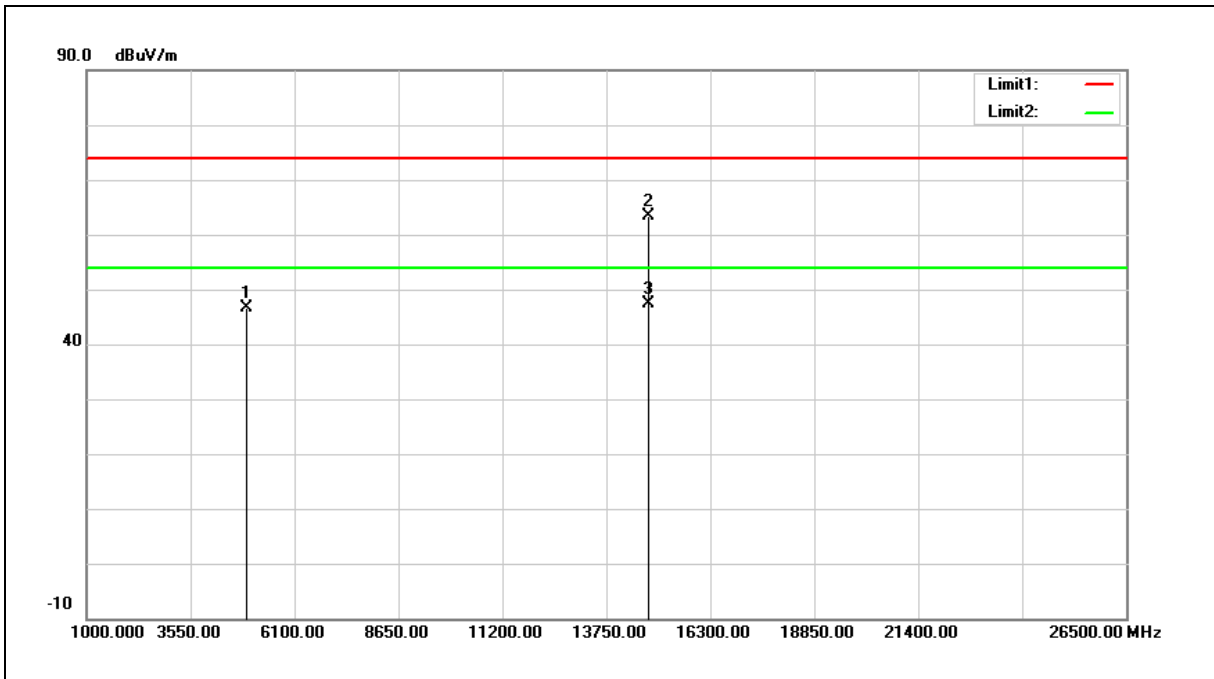
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2462 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	44.75	-0.63	44.12	74.00	-29.88	peak
2	7386.000	40.35	6.75	47.10	74.00	-26.90	peak
3	14772.000	37.60	18.30	55.90	74.00	-18.10	peak
4	14772.000	22.94	18.30	41.24	54.00	-12.76	AVG

- 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:	2462 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		



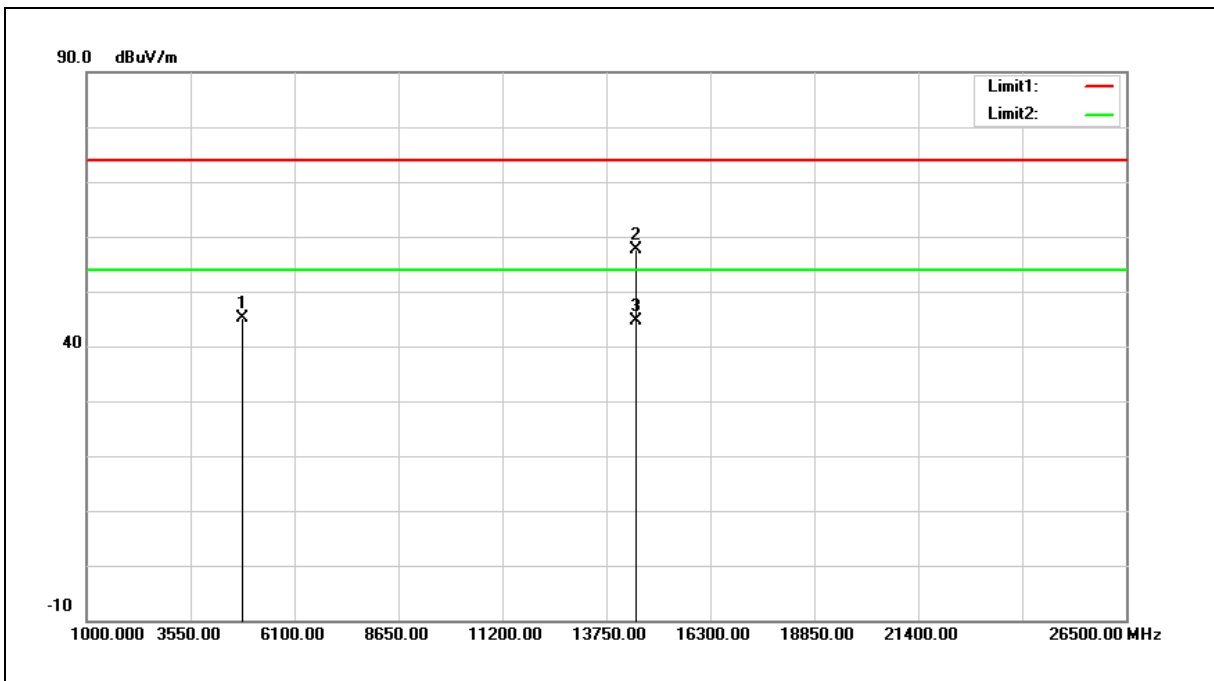
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	47.19	-0.63	46.56	74.00	-27.44	peak
2	14772.000	45.07	18.30	63.37	74.00	-10.63	peak
3	14772.000	29.00	18.30	47.30	54.00	-6.70	AVG

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:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



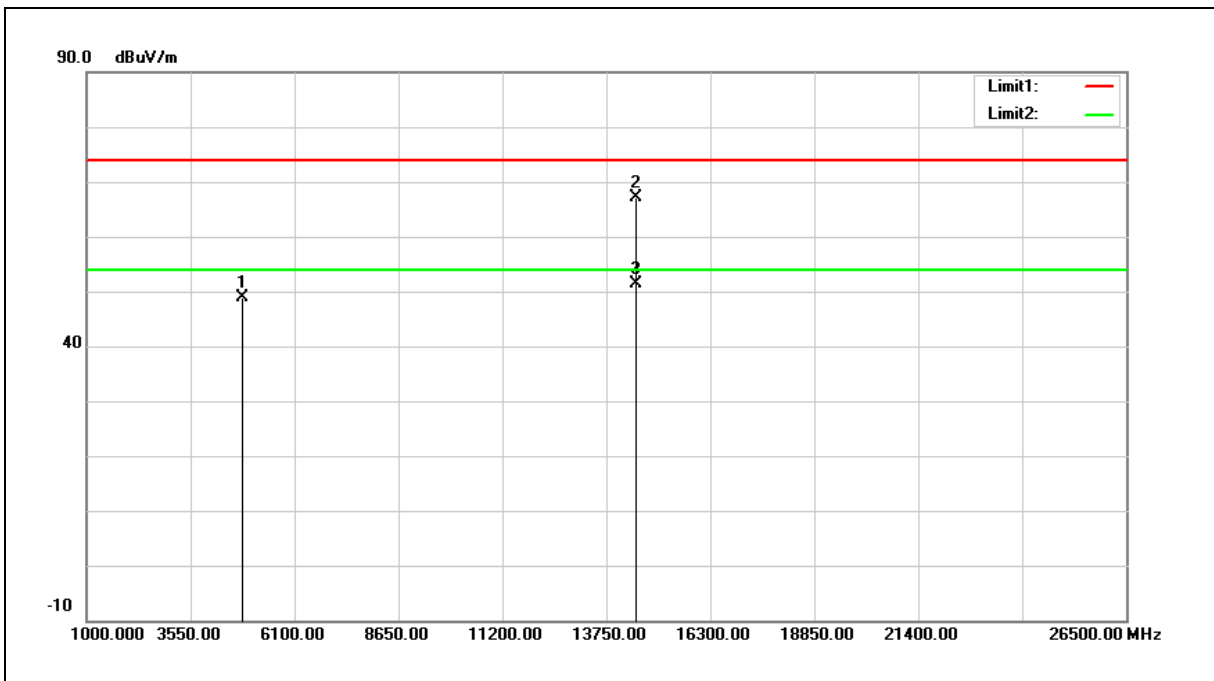
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	46.22	-0.98	45.24	74.00	-28.76	peak
2	14472.000	39.87	17.87	57.74	74.00	-16.26	peak
3	14472.000	26.74	17.87	44.61	54.00	-9.39	AVG

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:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



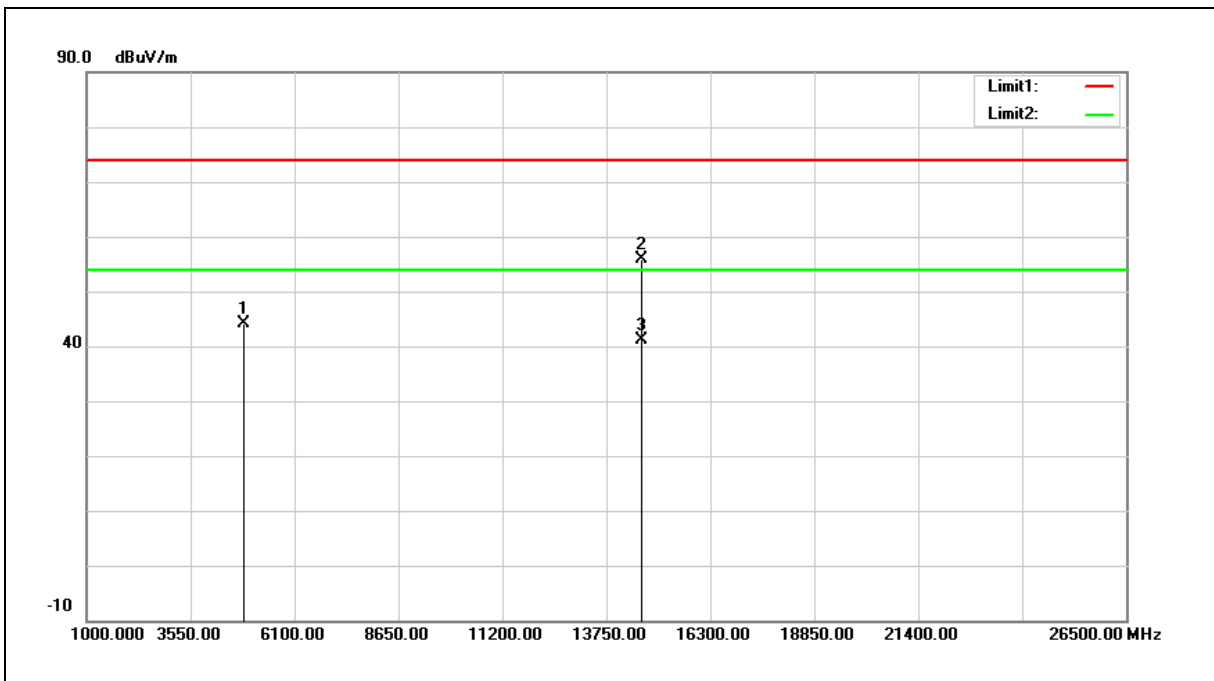
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	49.97	-0.98	48.99	74.00	-25.01	peak
2	14472.000	49.20	17.87	67.07	74.00	-6.93	peak
3	14472.000	33.51	17.87	51.38	54.00	-2.62	AVG

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:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



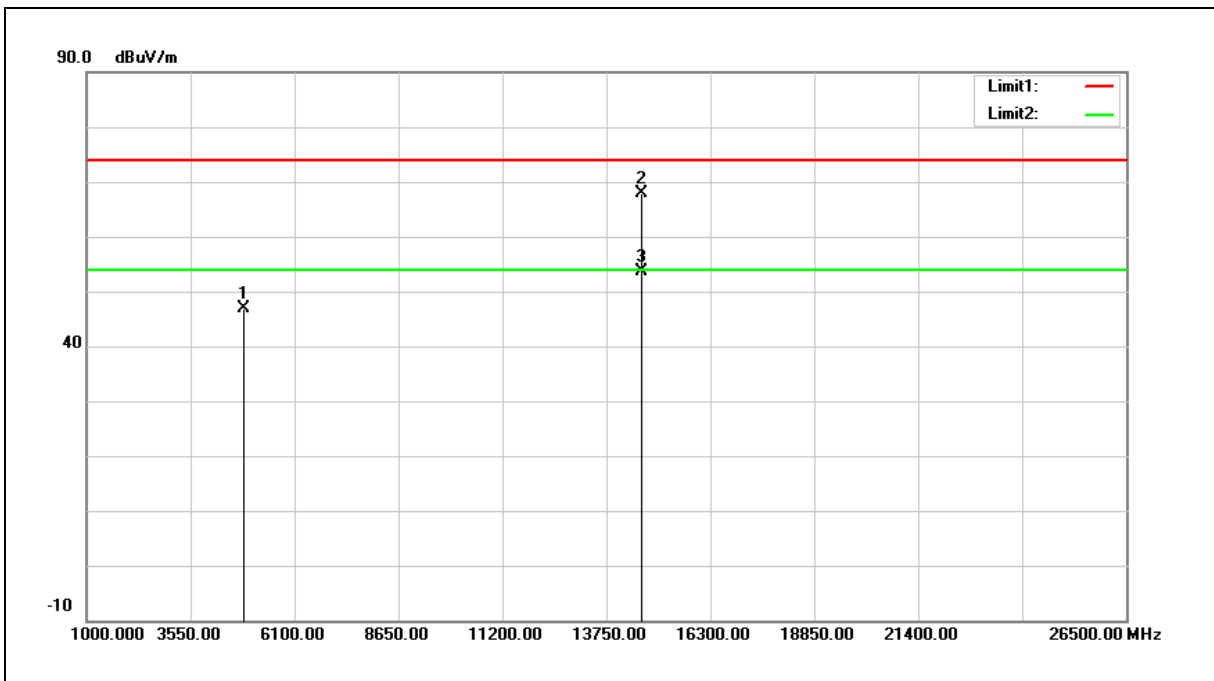
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	44.92	-0.80	44.12	74.00	-29.88	peak
2	14622.000	37.83	18.07	55.90	74.00	-18.10	peak
3	14622.000	23.17	18.07	41.24	54.00	-12.76	AVG

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:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	47.71	-0.80	46.91	74.00	-27.09	peak
2	14622.000	49.88	18.07	67.95	74.00	-6.05	peak
3	14622.000	35.48	18.07	53.55	54.00	-0.45	AVG

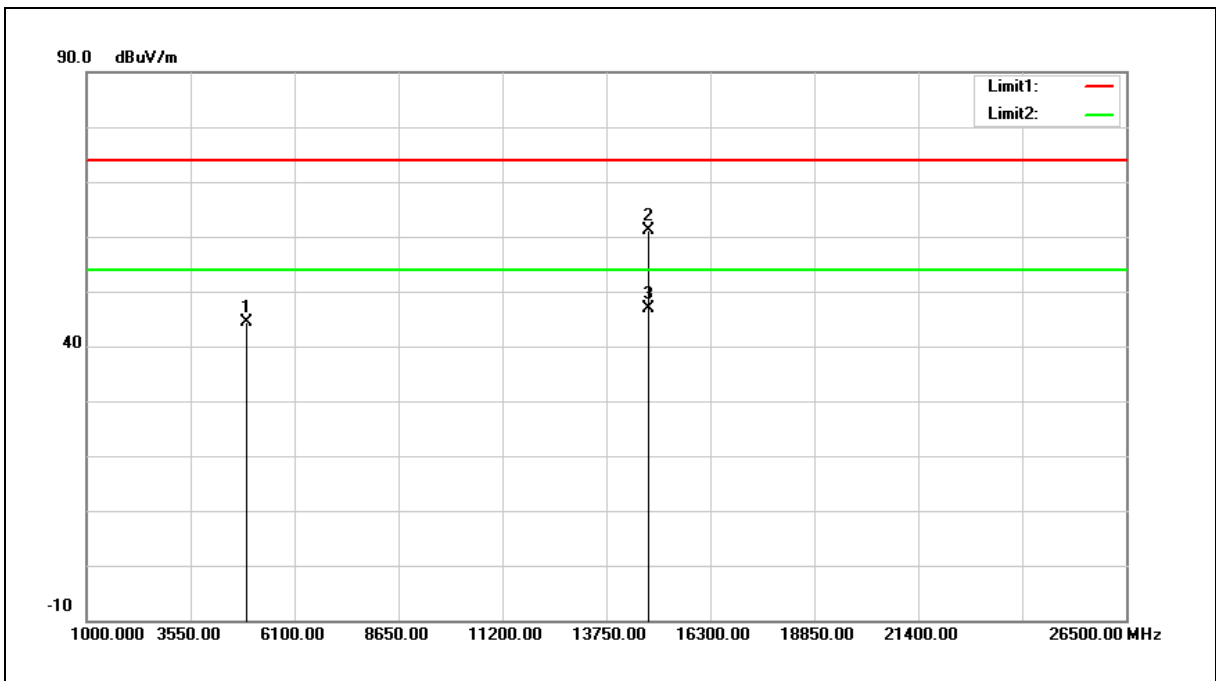
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



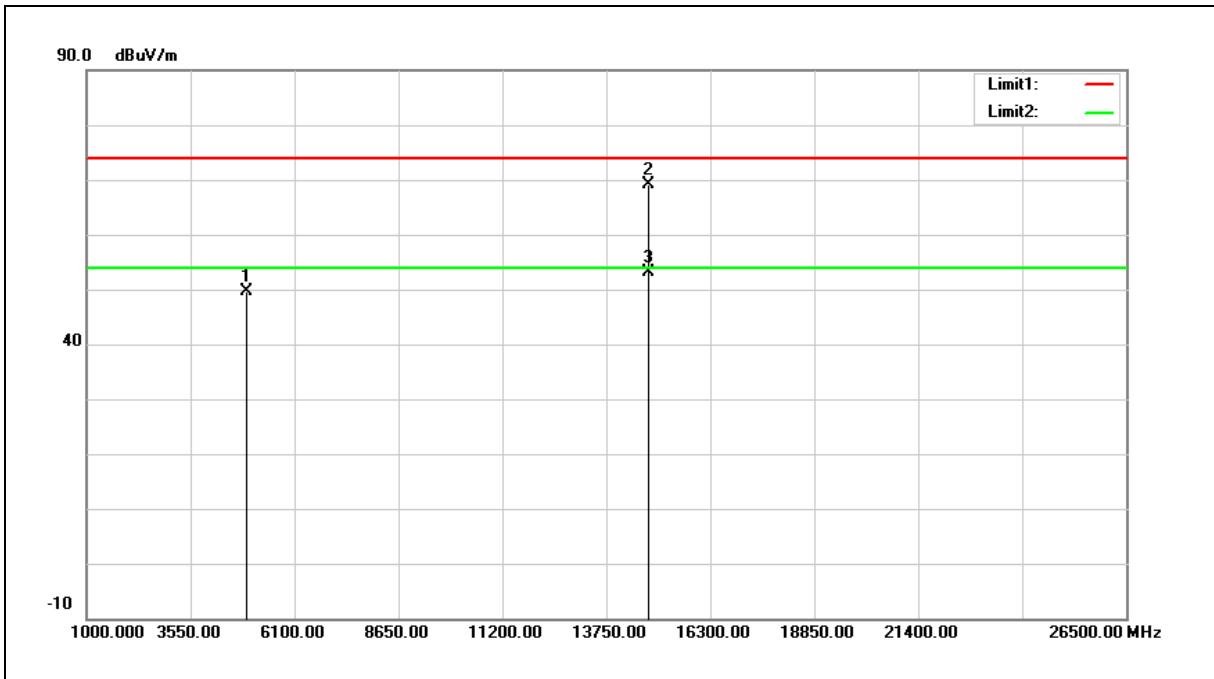
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	45.02	-0.63	44.39	74.00	-29.61	peak
2	14772.000	42.80	18.30	61.10	74.00	-12.90	peak
3	14772.000	28.63	18.30	46.93	54.00	-7.07	AVG

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:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



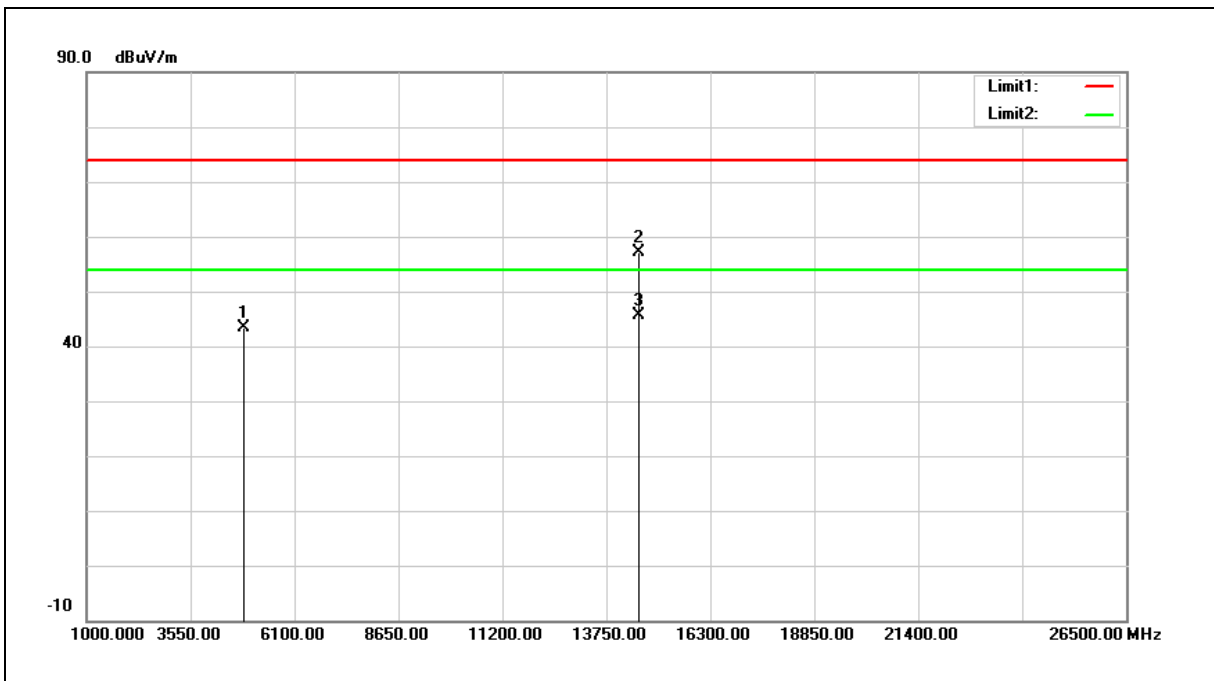
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	50.35	-0.63	49.72	74.00	-24.28	peak
2	14772.000	50.80	18.30	69.10	74.00	-4.90	peak
3	14772.000	34.93	18.30	53.23	54.00	-0.77	AVG

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:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



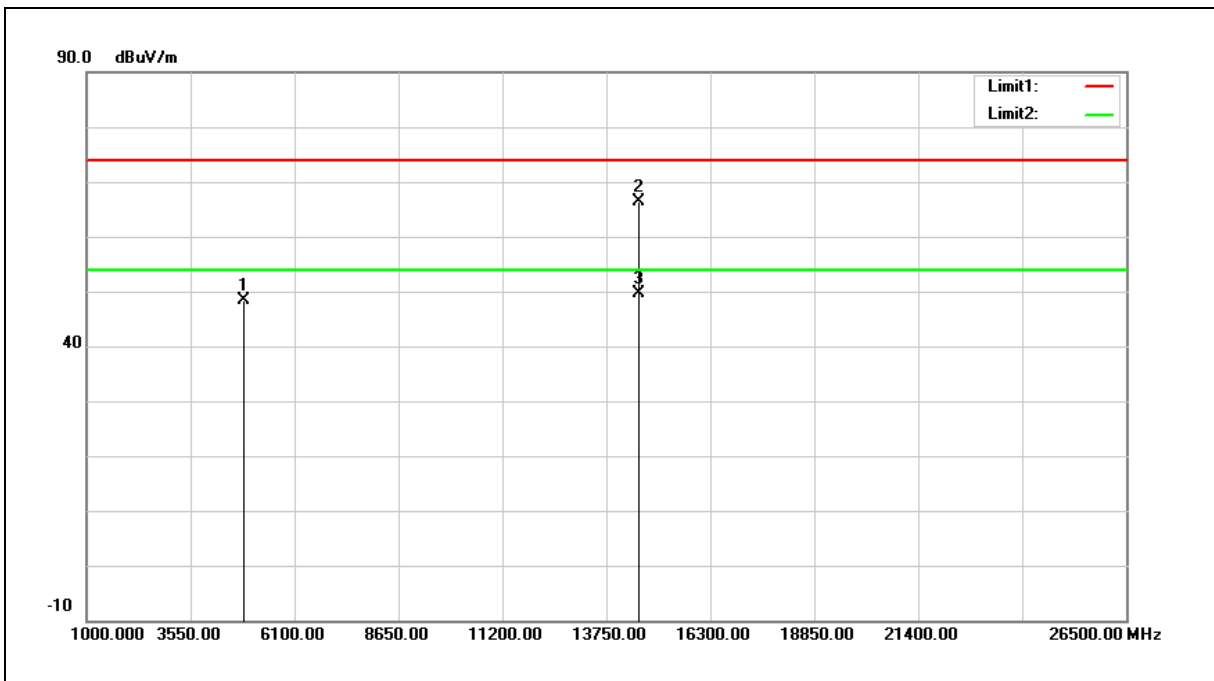
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	44.34	-0.90	43.44	74.00	-30.56	peak
2	14532.000	39.31	17.94	57.25	74.00	-16.75	peak
3	14532.000	27.63	17.94	45.57	54.00	-8.43	AVG

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:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



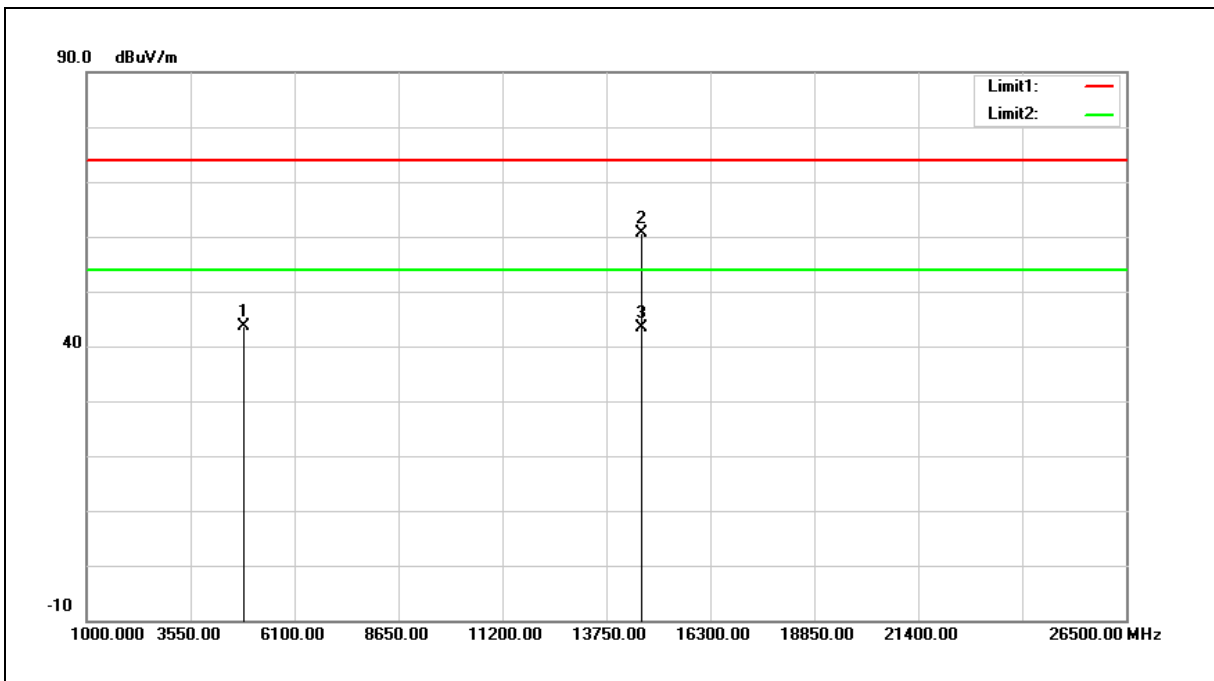
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	49.38	-0.90	48.48	74.00	-25.52	peak
2	14532.000	48.42	17.94	66.36	74.00	-7.64	peak
3	14532.000	31.57	17.94	49.51	54.00	-4.49	AVG

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:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



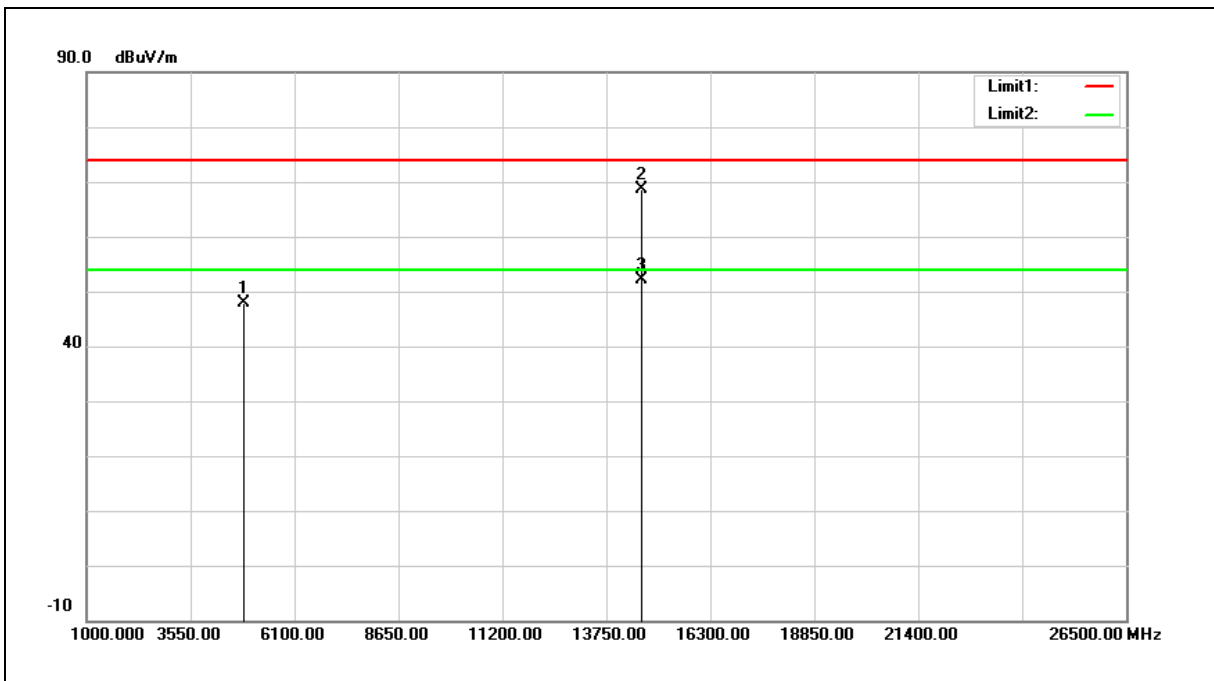
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	44.42	-0.80	43.62	74.00	-30.38	peak
2	14622.000	42.44	18.07	60.51	74.00	-13.49	peak
3	14622.000	25.32	18.07	43.39	54.00	-10.61	AVG

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:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



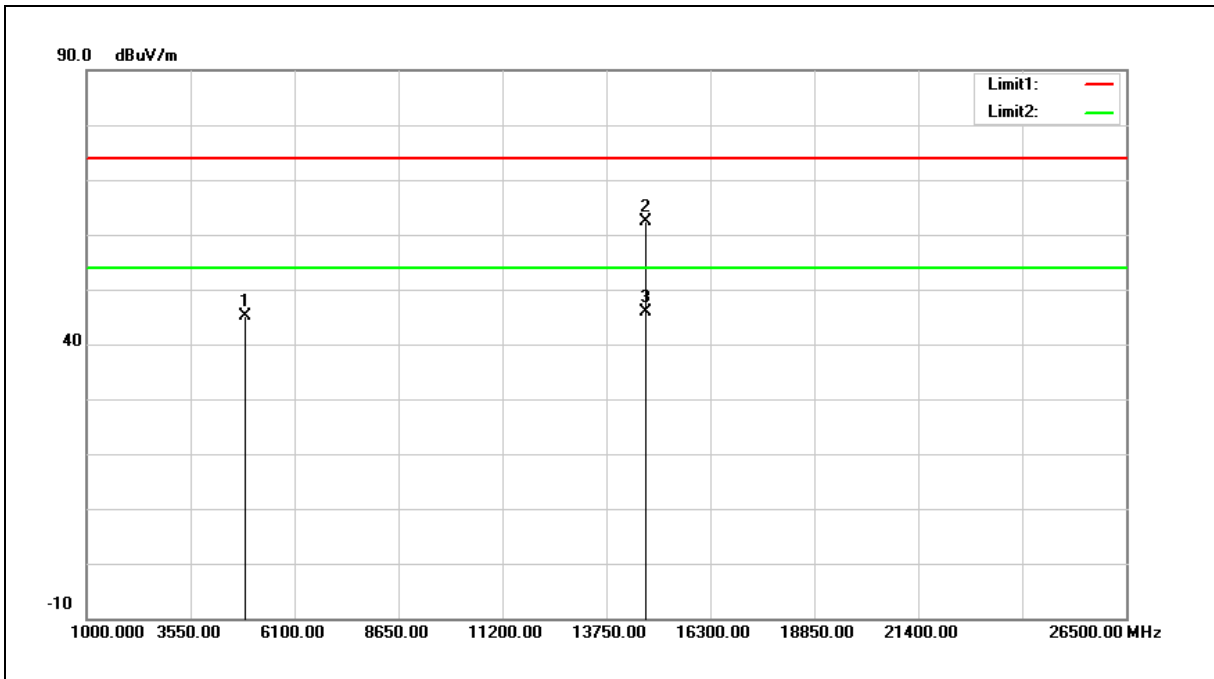
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	48.74	-0.80	47.94	74.00	-26.06	peak
2	14622.000	50.46	18.07	68.53	74.00	-5.47	peak
3	14622.000	34.09	18.07	52.16	54.00	-1.84	AVG

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:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



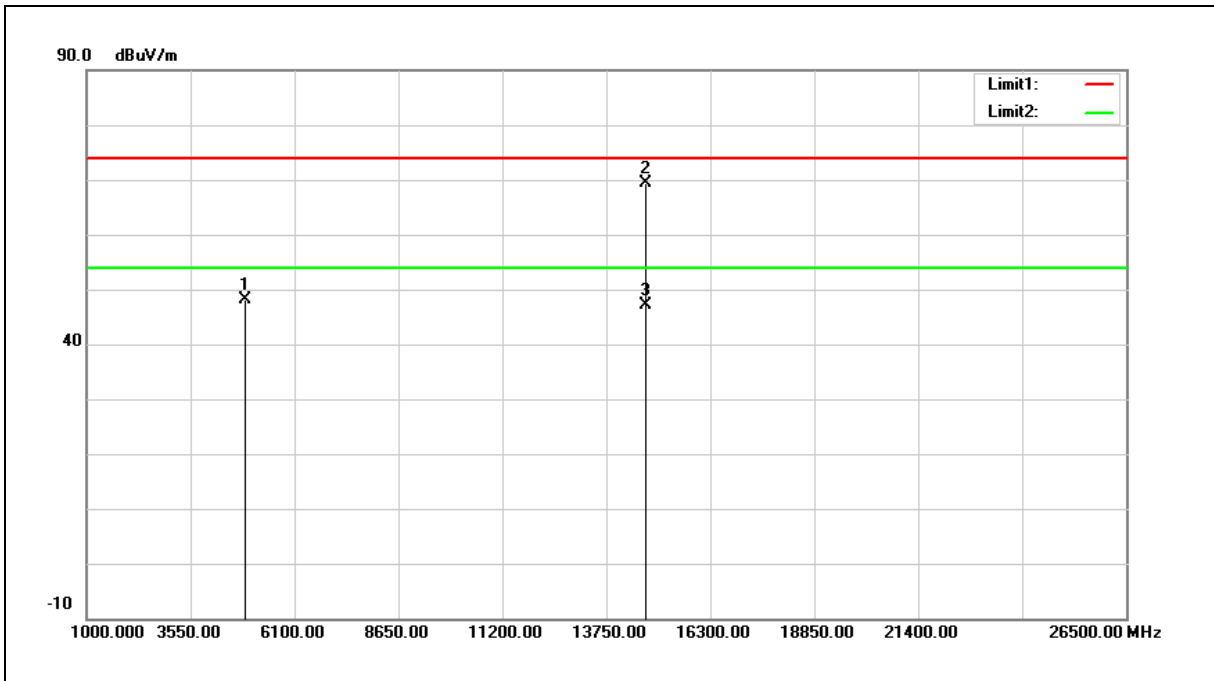
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	45.79	-0.69	45.10	74.00	-28.90	peak
2	14712.000	44.08	18.22	62.30	74.00	-11.70	peak
3	14712.000	27.76	18.22	45.98	54.00	-8.02	AVG

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:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	48.89	-0.69	48.20	74.00	-25.80	peak
2	14712.000	51.21	18.22	69.43	74.00	-4.57	peak
3	14712.000	28.95	18.22	47.17	54.00	-6.83	AVG

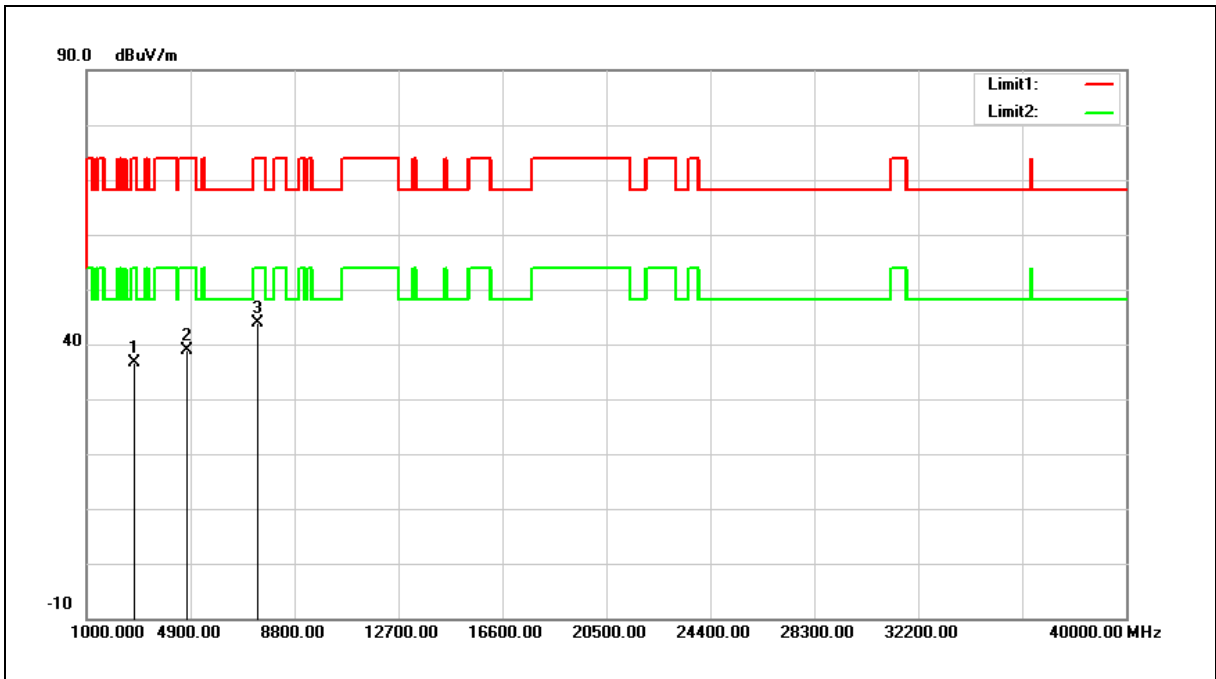
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 15.407	Test Distance:	3 m
Test item:	Harmonic		
Mode:	Simultaneous Transmitting (WLAN 2.4 + 5 GHz)		
Ant.Polar.:	Horizontal		



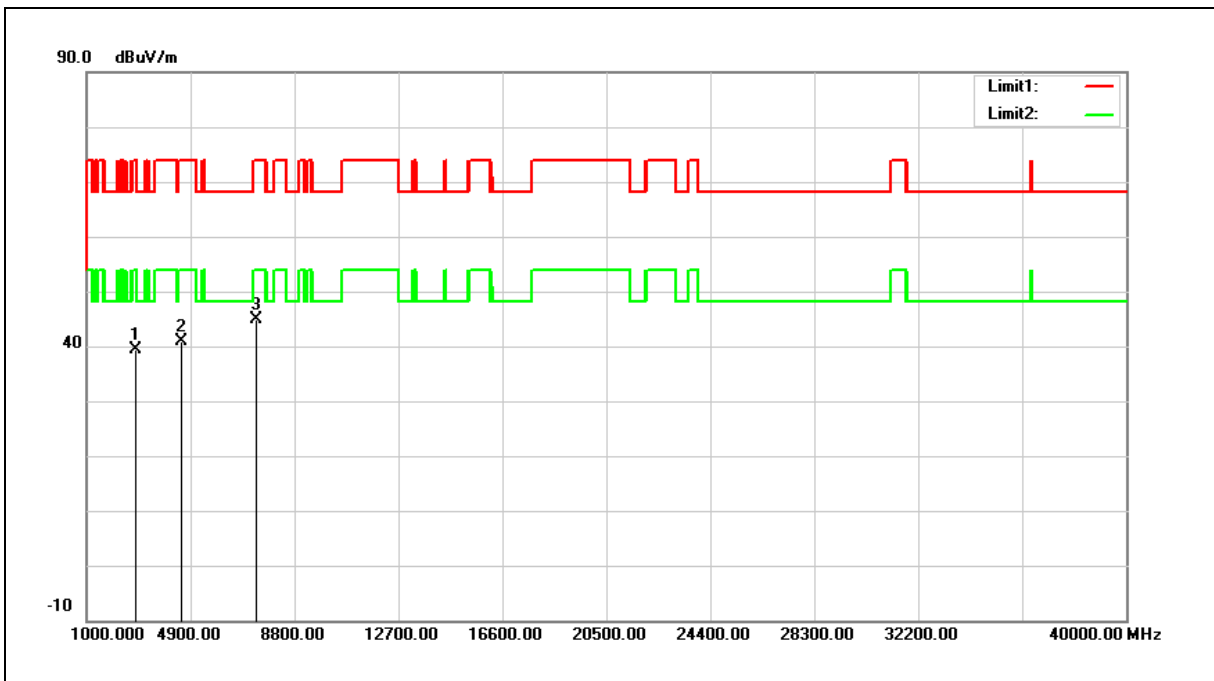
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2785.000	42.74	-6.00	36.74	74.00	-37.26	peak
2	4757.000	40.19	-1.21	38.98	74.00	-35.02	peak
3	7426.000	37.03	6.90	43.93	74.00	-30.07	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic		
Mode:	Simultaneous Transmitting (WLAN 2.4 + 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	45.23	-5.94	39.29	74.00	-34.71	peak
2	4553.000	42.84	-1.91	40.93	74.00	-33.07	peak
3	7341.000	38.27	6.56	44.83	74.00	-29.17	peak

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

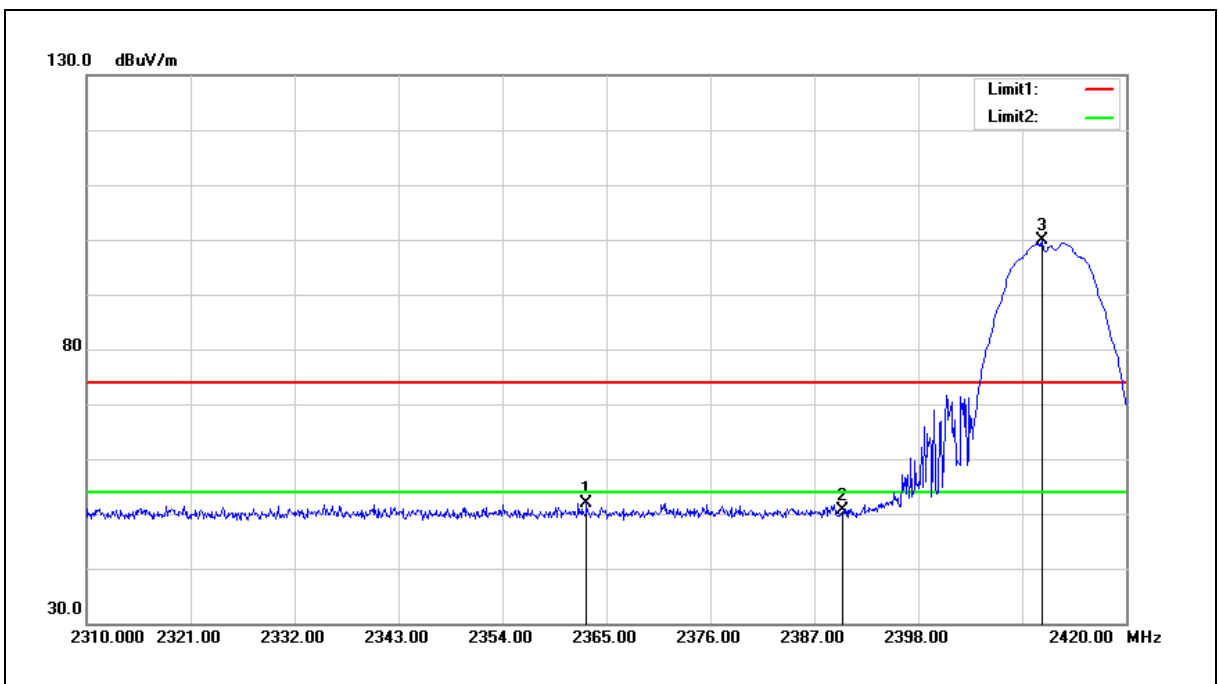
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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

**Band Edge**

Peak
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Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2412 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



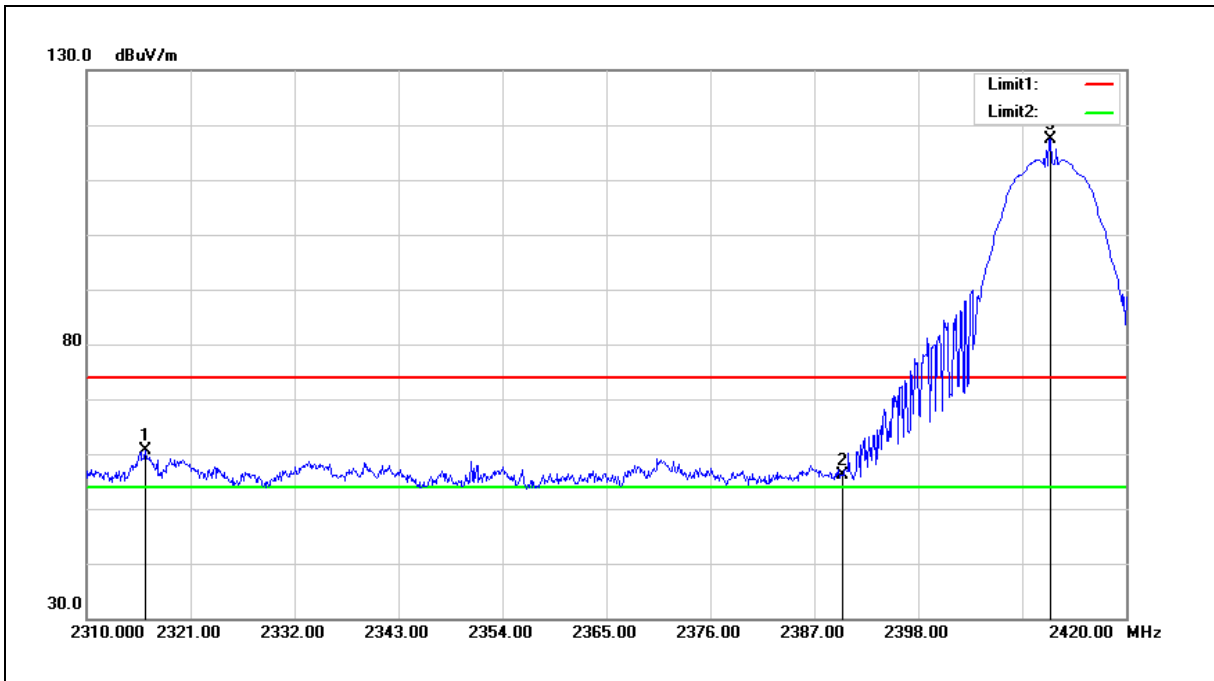
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2362.910	59.31	-7.41	51.90	74.00	-22.10	peak
2	2390.000	57.82	-7.30	50.52	74.00	-23.48	peak
3	2411.090	107.18	-7.22	99.96	74.00	25.96	peak

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:	2412 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



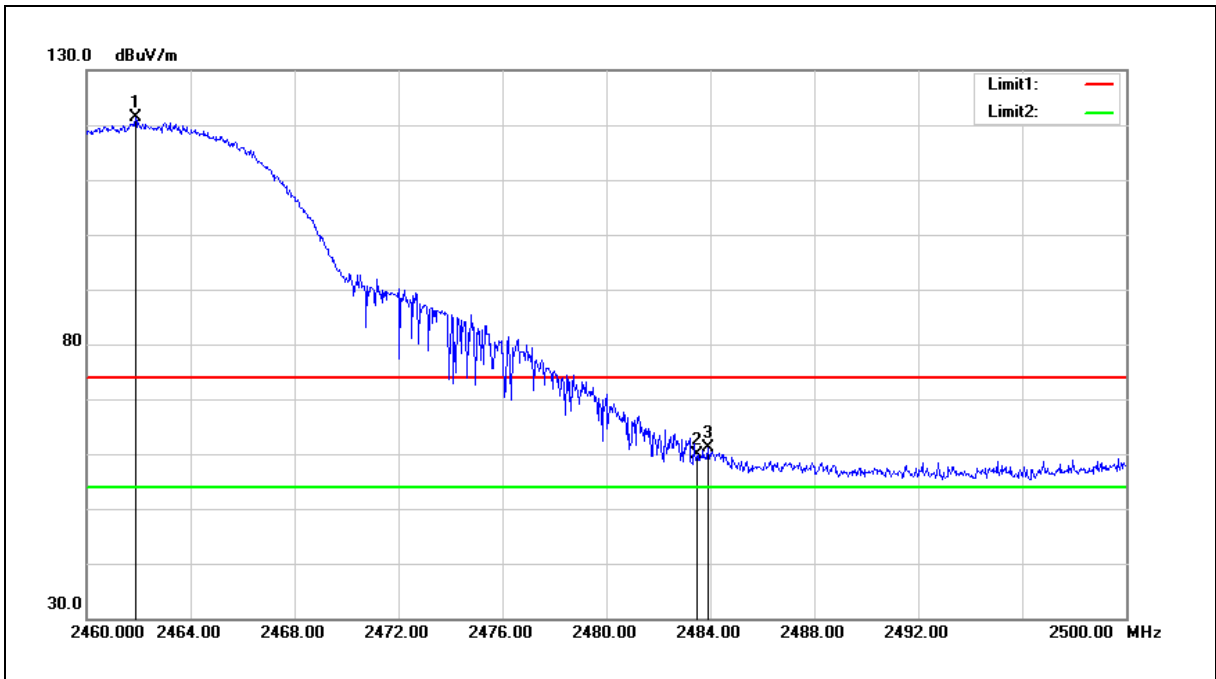
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2316.160	68.28	-7.59	60.69	74.00	-13.31	peak
2	2390.000	63.33	-7.30	56.03	74.00	-17.97	peak
3	2411.970	124.66	-7.22	117.44	74.00	43.44	peak

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:	2462 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



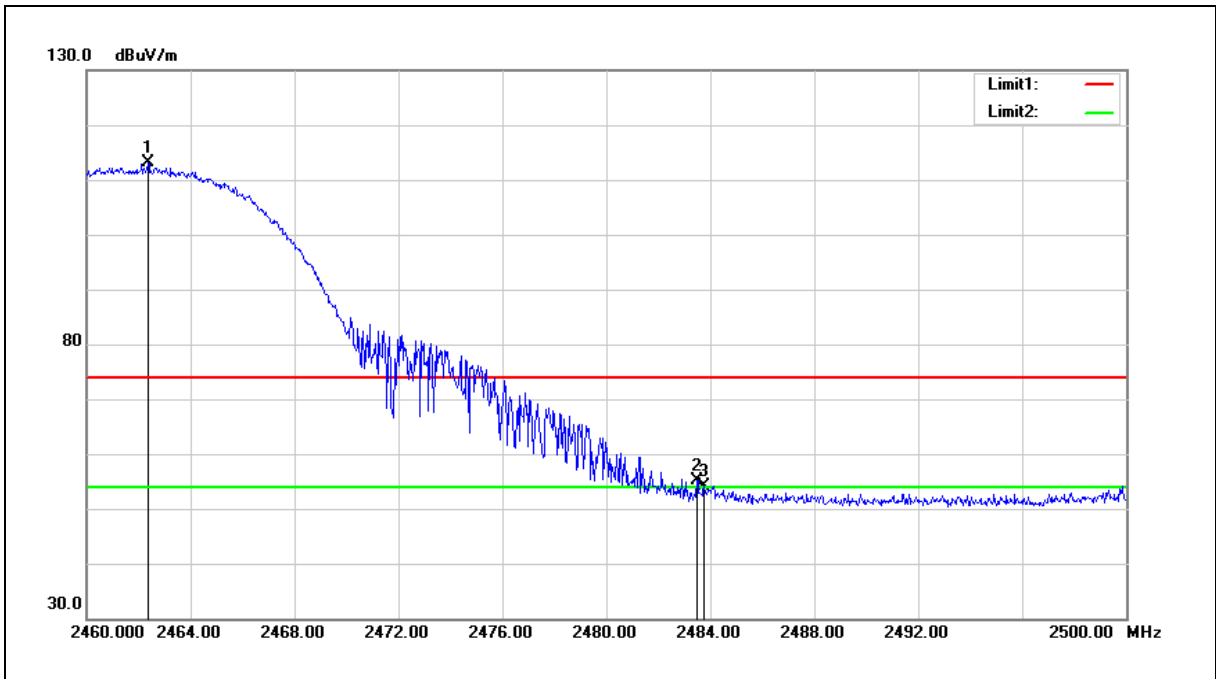
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.880	128.36	-7.03	121.33	74.00	47.33	peak
2	2483.500	66.71	-6.94	59.77	74.00	-14.23	peak
3	2483.920	67.95	-6.94	61.01	74.00	-12.99	peak

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:	2462 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



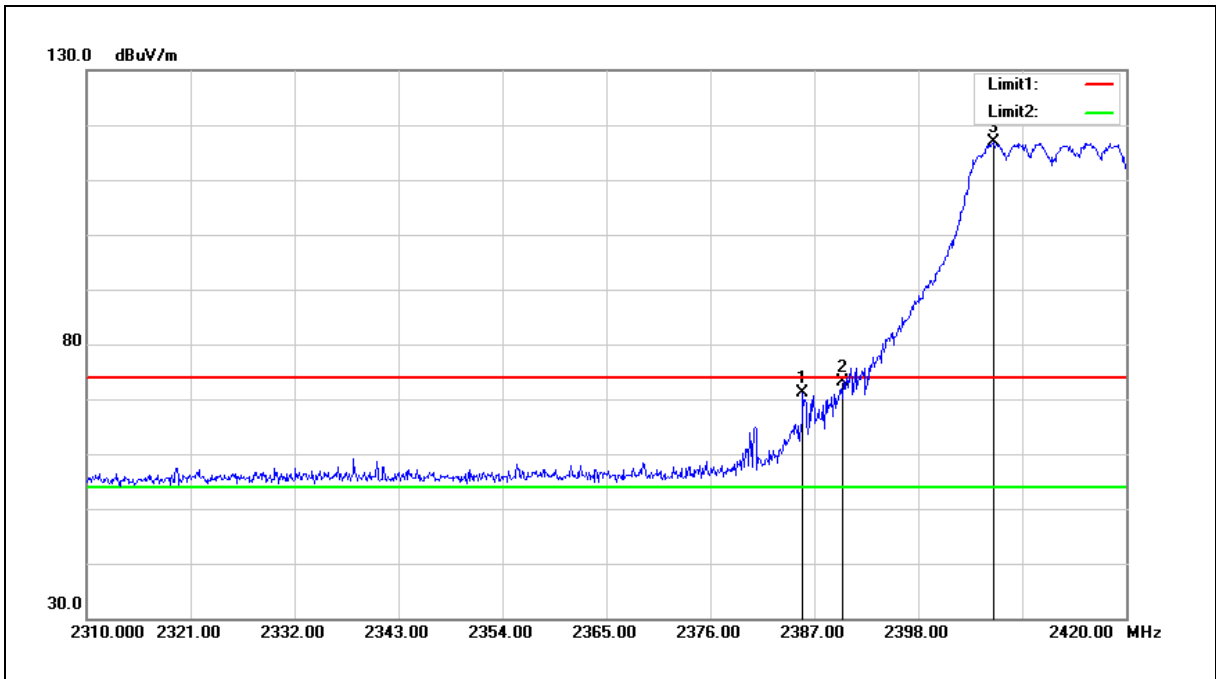
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.360	120.15	-7.03	113.12	74.00	39.12	peak
2	2483.500	61.97	-6.94	55.03	74.00	-18.97	peak
3	2483.760	61.13	-6.94	54.19	74.00	-19.81	peak

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:	2412 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



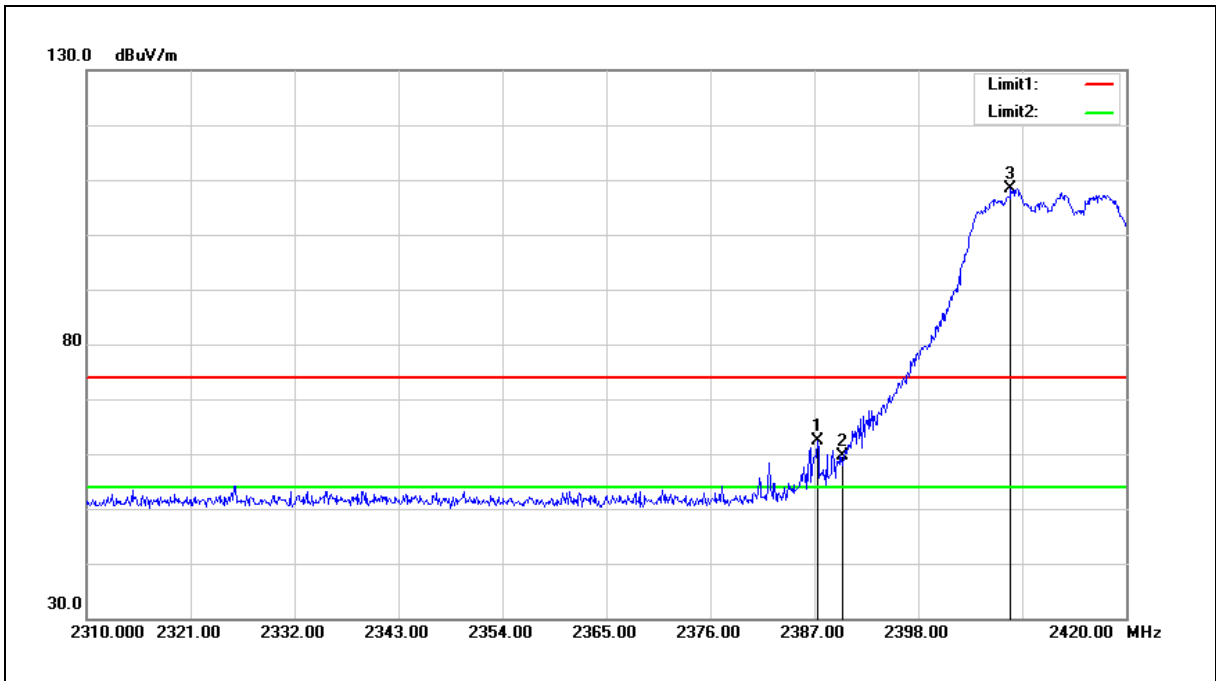
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.790	78.41	-7.33	71.08	74.00	-2.92	peak
2	2390.000	80.33	-7.30	73.03	74.00	-0.97	peak
3	2406.030	124.24	-7.24	117.00	74.00	43.00	peak

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:	2412 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.330	69.65	-7.33	62.32	74.00	-11.68	peak
2	2390.000	66.92	-7.30	59.62	74.00	-14.38	peak
3	2407.790	115.73	-7.24	108.49	74.00	34.49	peak

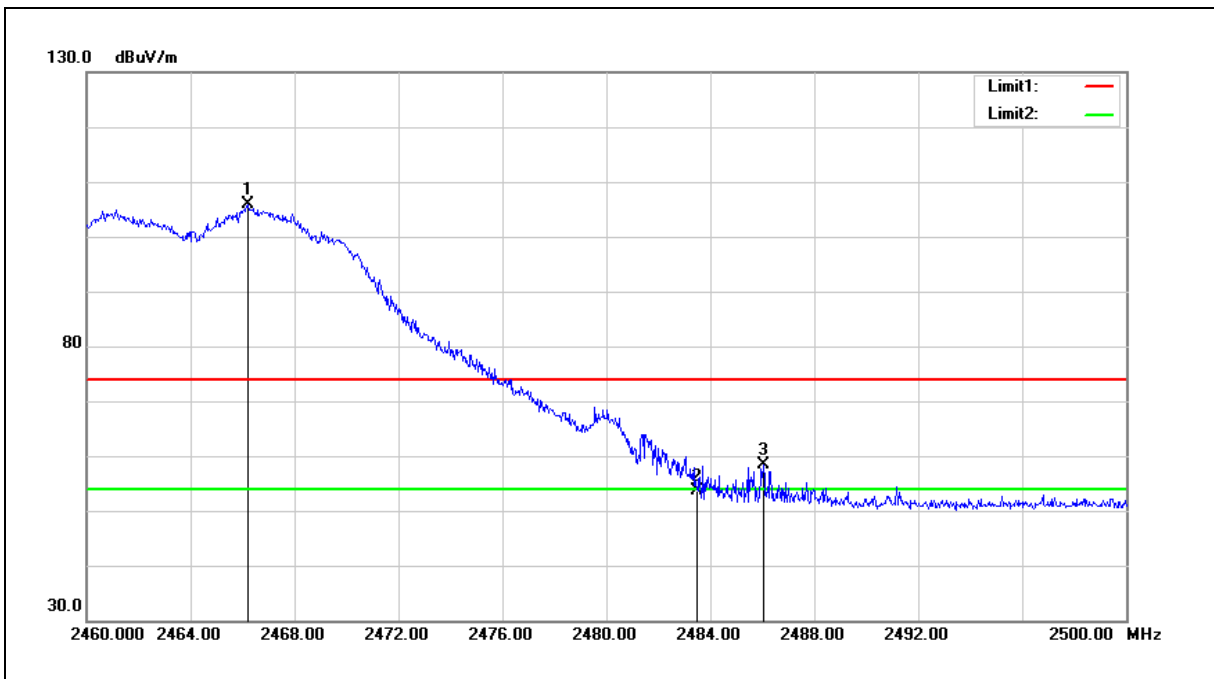
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	2462 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



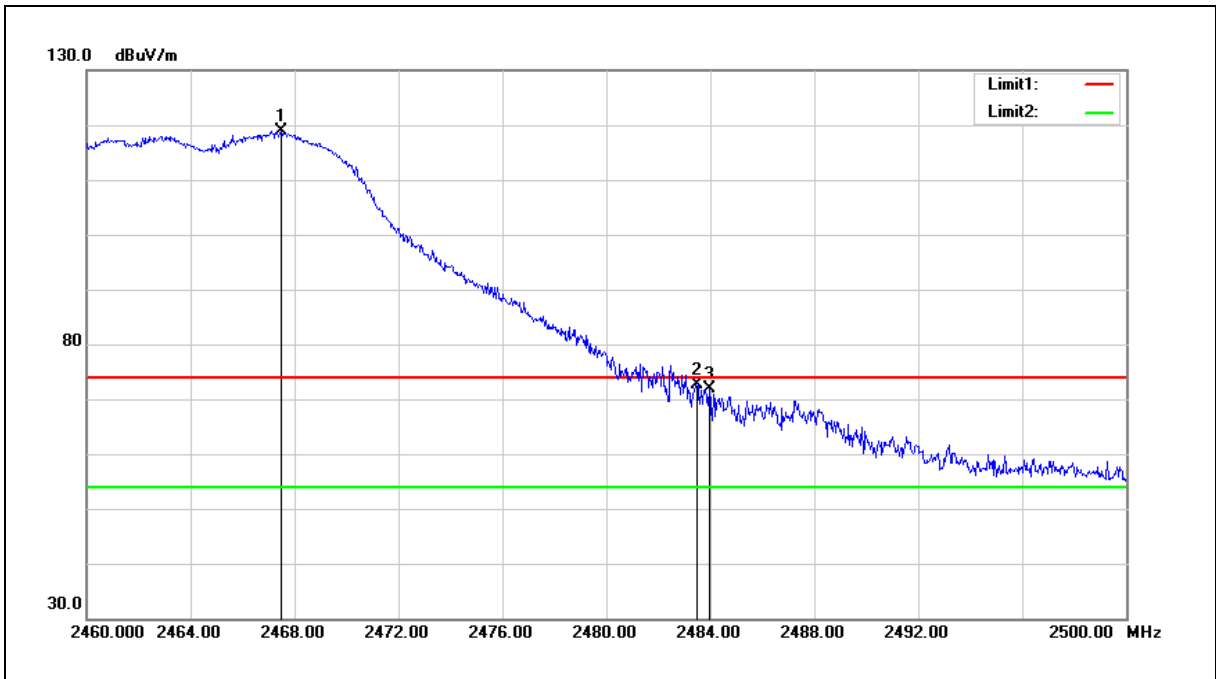
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2466.200	112.98	-6.99	105.99	74.00	31.99	peak
2	2483.500	60.50	-6.94	53.56	74.00	-20.44	peak
3	2486.040	65.20	-6.92	58.28	74.00	-15.72	peak

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:	2462 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		



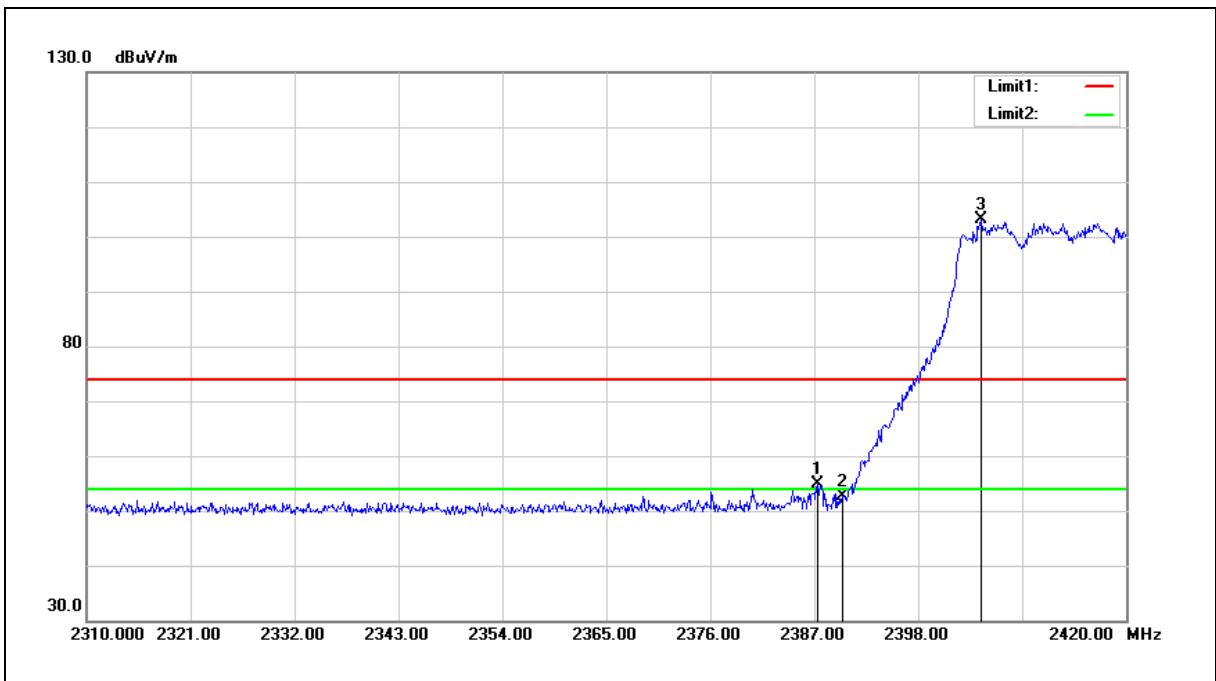
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2467.480	125.76	-6.99	118.77	74.00	44.77	peak
2	2483.500	79.56	-6.94	72.62	74.00	-1.38	peak
3	2483.960	78.85	-6.93	71.92	74.00	-2.08	peak

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:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



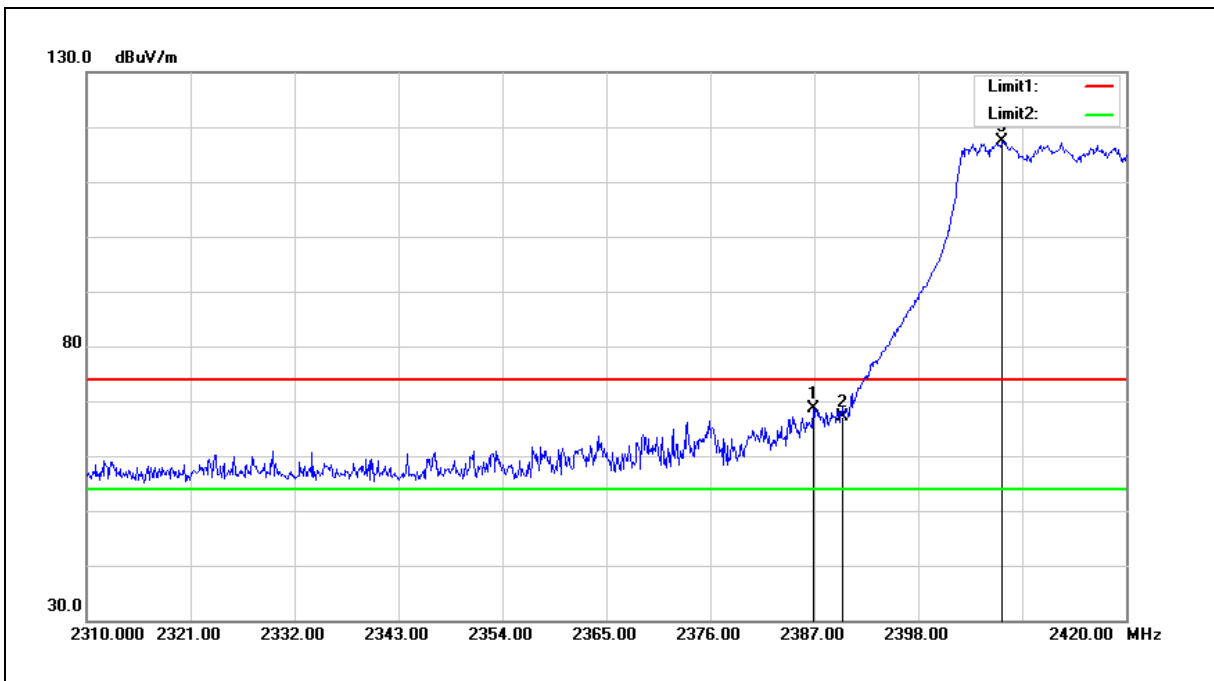
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.330	62.13	-7.33	54.80	74.00	-19.20	peak
2	2390.000	59.99	-7.30	52.69	74.00	-21.31	peak
3	2404.600	110.38	-7.25	103.13	74.00	29.13	peak

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:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



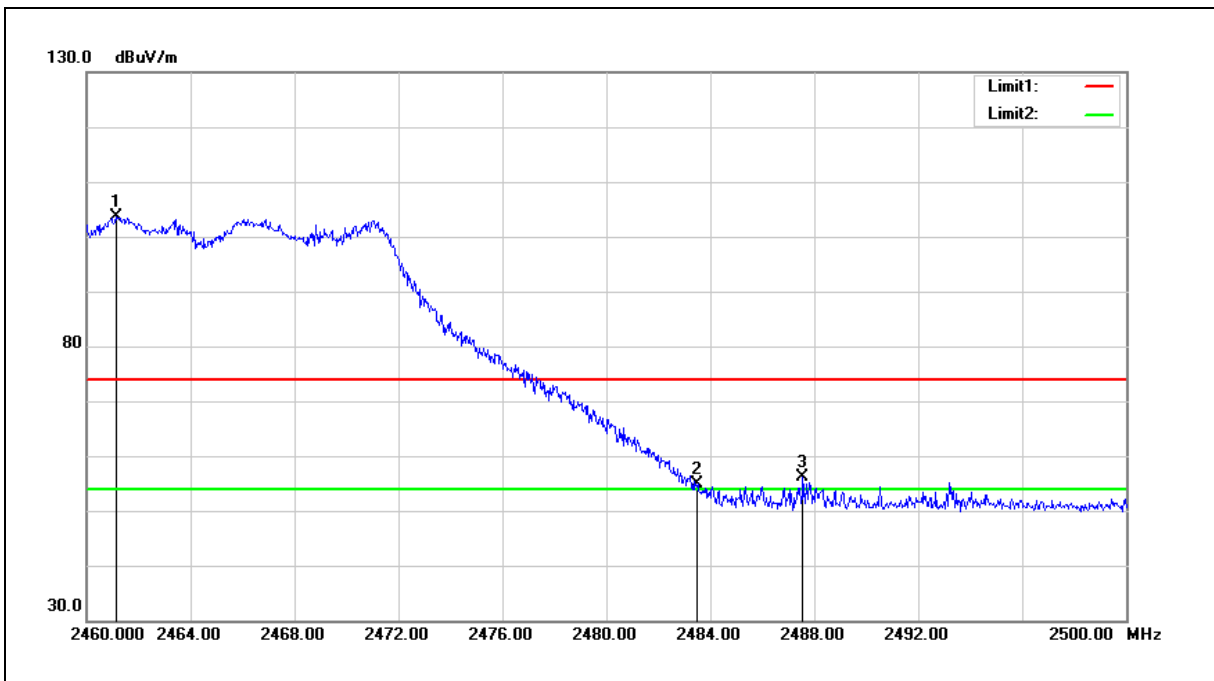
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.890	75.91	-7.33	68.58	74.00	-5.42	peak
2	2390.000	74.39	-7.30	67.09	74.00	-6.91	peak
3	2406.910	124.58	-7.24	117.34	74.00	43.34	peak

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:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



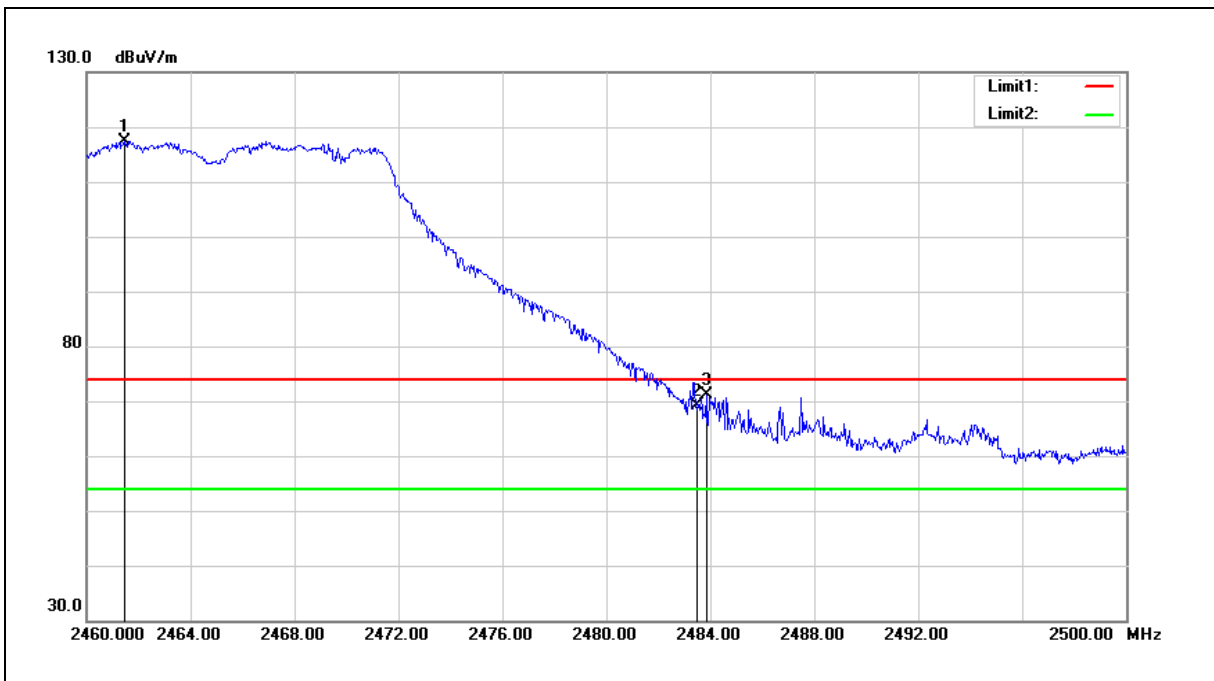
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.120	110.55	-7.03	103.52	74.00	29.52	peak
2	2483.500	61.87	-6.94	54.93	74.00	-19.07	peak
3	2487.560	62.96	-6.91	56.05	74.00	-17.95	peak

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:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



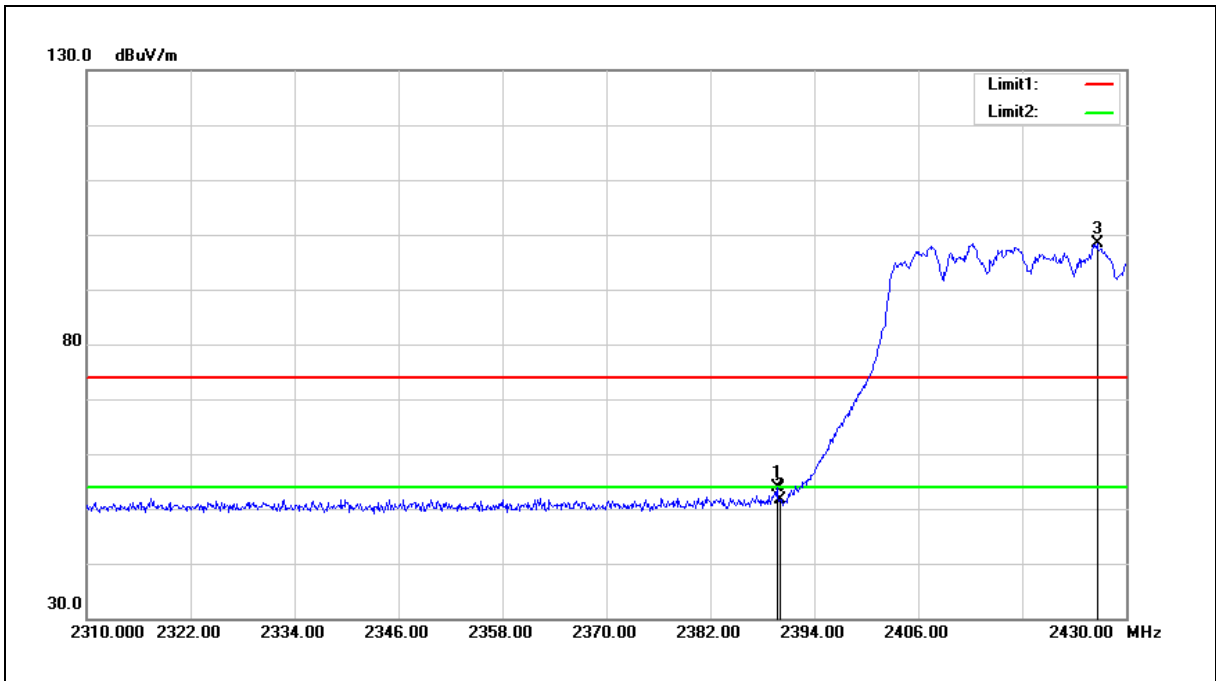
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.440	124.45	-7.03	117.42	74.00	43.42	peak
2	2483.500	76.13	-6.94	69.19	74.00	-4.81	peak
3	2483.840	78.07	-6.94	71.13	74.00	-2.87	peak

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:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



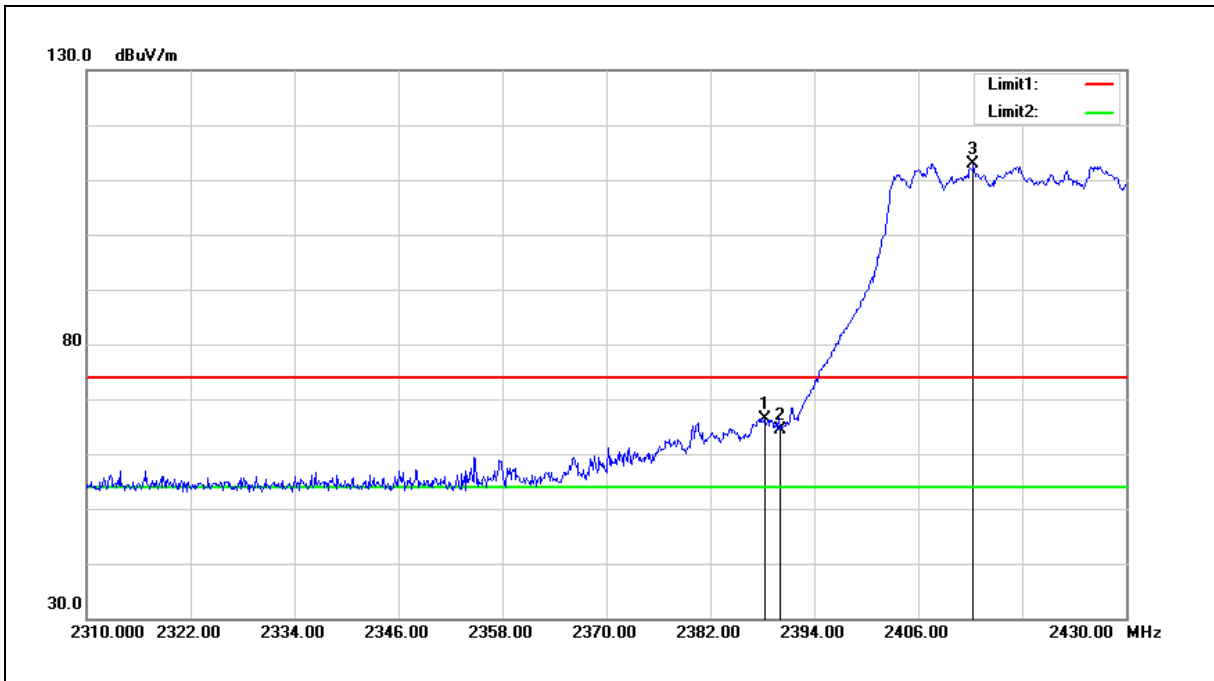
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.680	61.18	-7.30	53.88	74.00	-20.12	peak
2	2390.000	58.81	-7.30	51.51	74.00	-22.49	peak
3	2426.640	105.58	-7.16	98.42	74.00	24.42	peak

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:	Band edge		
Frequency:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.240	73.61	-7.32	66.29	74.00	-7.71	peak
2	2390.000	71.58	-7.30	64.28	74.00	-9.72	peak
3	2412.360	120.22	-7.22	113.00	74.00	39.00	peak

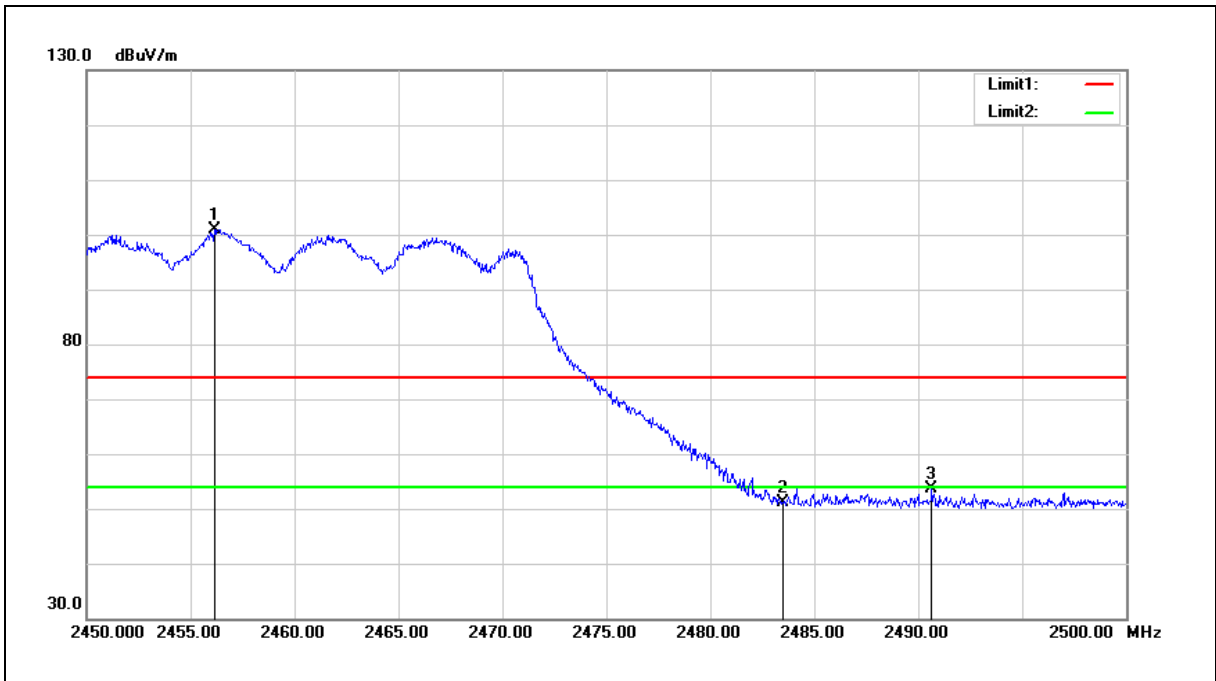
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



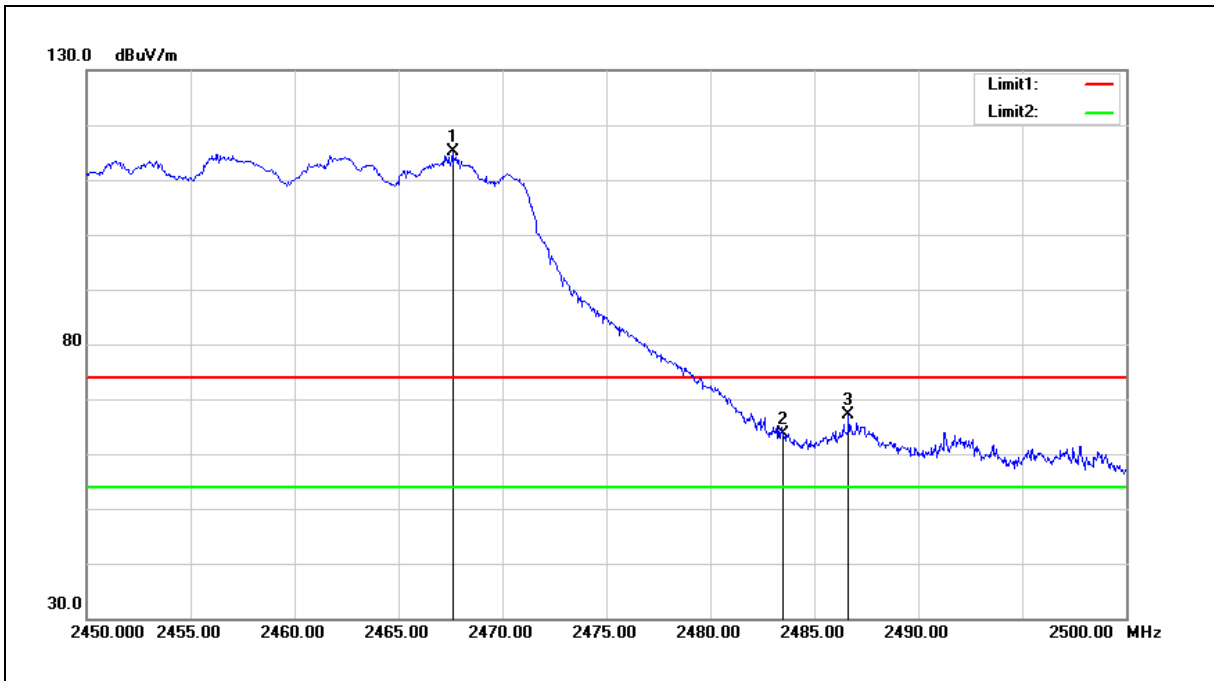
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2456.150	108.04	-7.04	101.00	74.00	27.00	peak
2	2483.500	58.13	-6.94	51.19	74.00	-22.81	peak
3	2490.650	60.48	-6.91	53.57	74.00	-20.43	peak

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:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2467.600	122.08	-6.99	115.09	74.00	41.09	peak
2	2483.500	70.49	-6.94	63.55	74.00	-10.45	peak
3	2486.650	74.06	-6.92	67.14	74.00	-6.86	peak

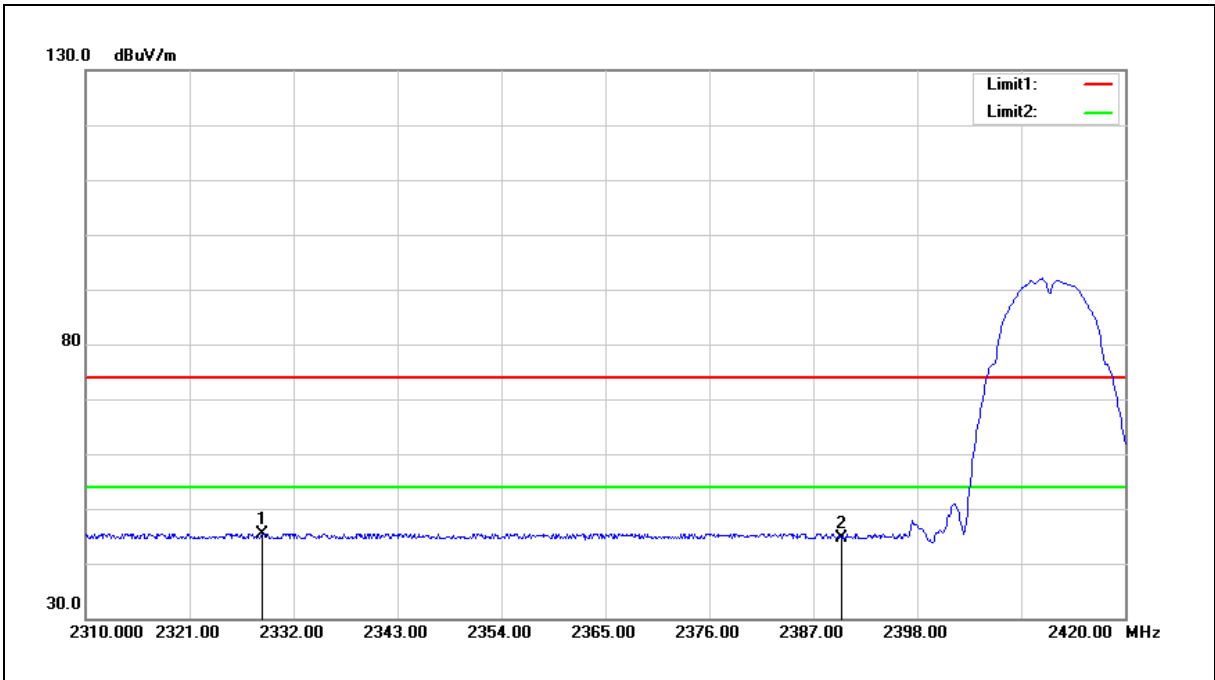
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.

Average

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2412 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



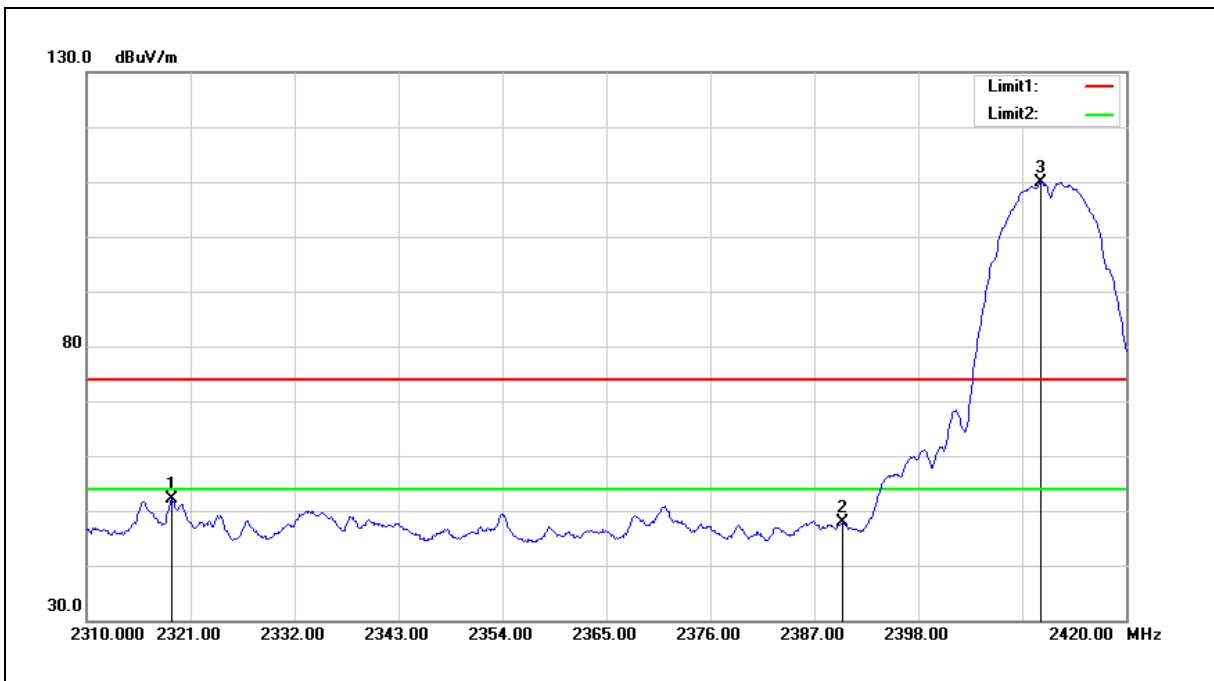
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2328.700	53.05	-7.55	45.50	54.00	-8.50	AVG
2	2390.000	51.82	-7.30	44.52	54.00	-9.48	AVG

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:	2412 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



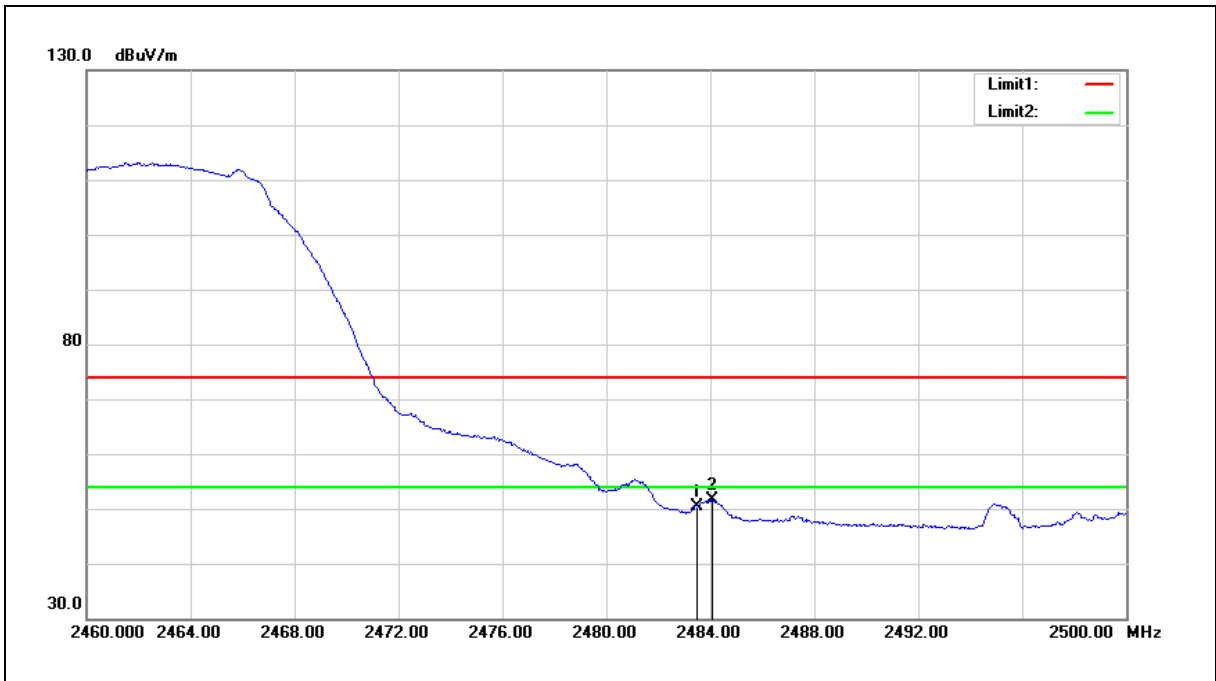
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2319.020	59.75	-7.59	52.16	54.00	-1.84	AVG
2	2390.000	55.18	-7.30	47.88	54.00	-6.12	AVG
3	2410.980	117.22	-7.22	110.00	54.00	56.00	AVG

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:	2462 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



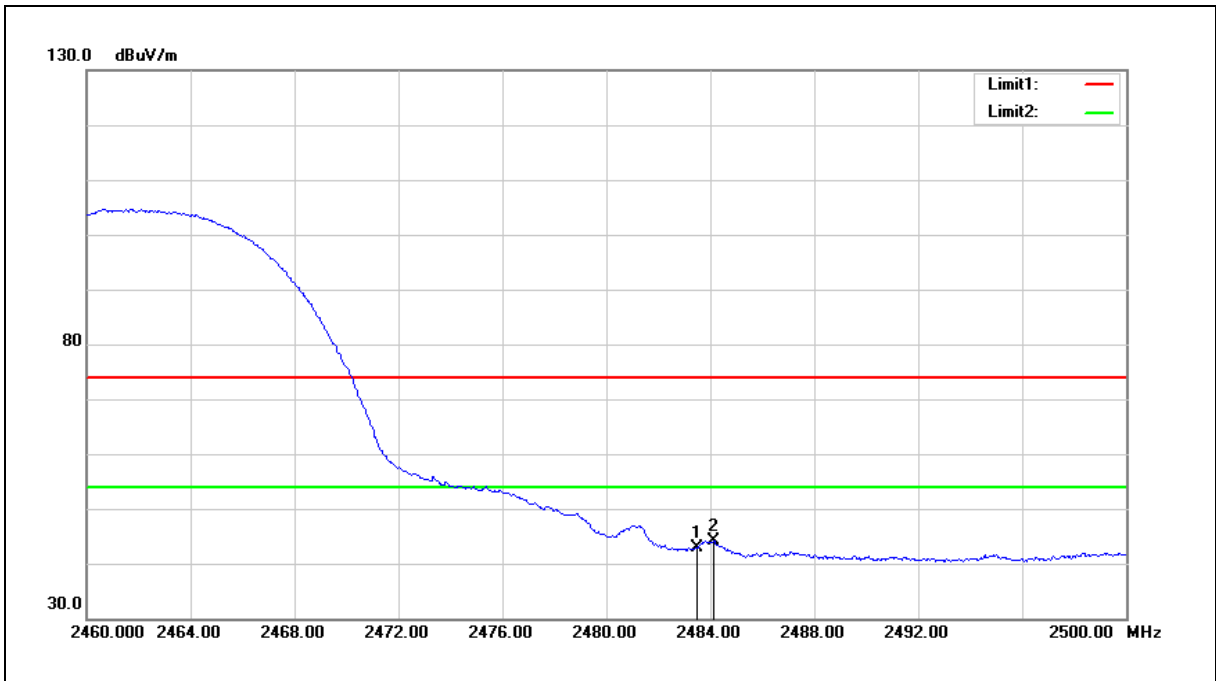
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	57.39	-6.94	50.45	54.00	-3.55	AVG
2	2484.080	58.46	-6.92	51.54	54.00	-2.46	AVG

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.

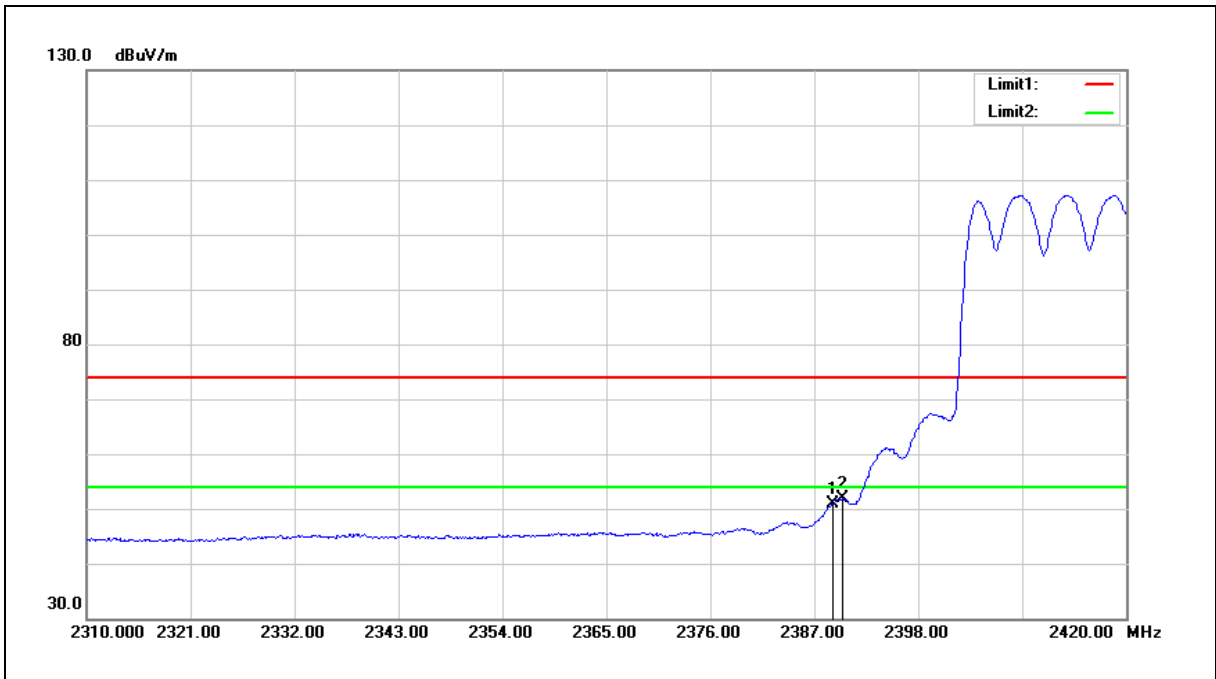
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2462 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	49.79	-6.94	42.85	54.00	-11.15	AVG
2	2484.120	51.04	-6.92	44.12	54.00	-9.88	AVG

- 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.

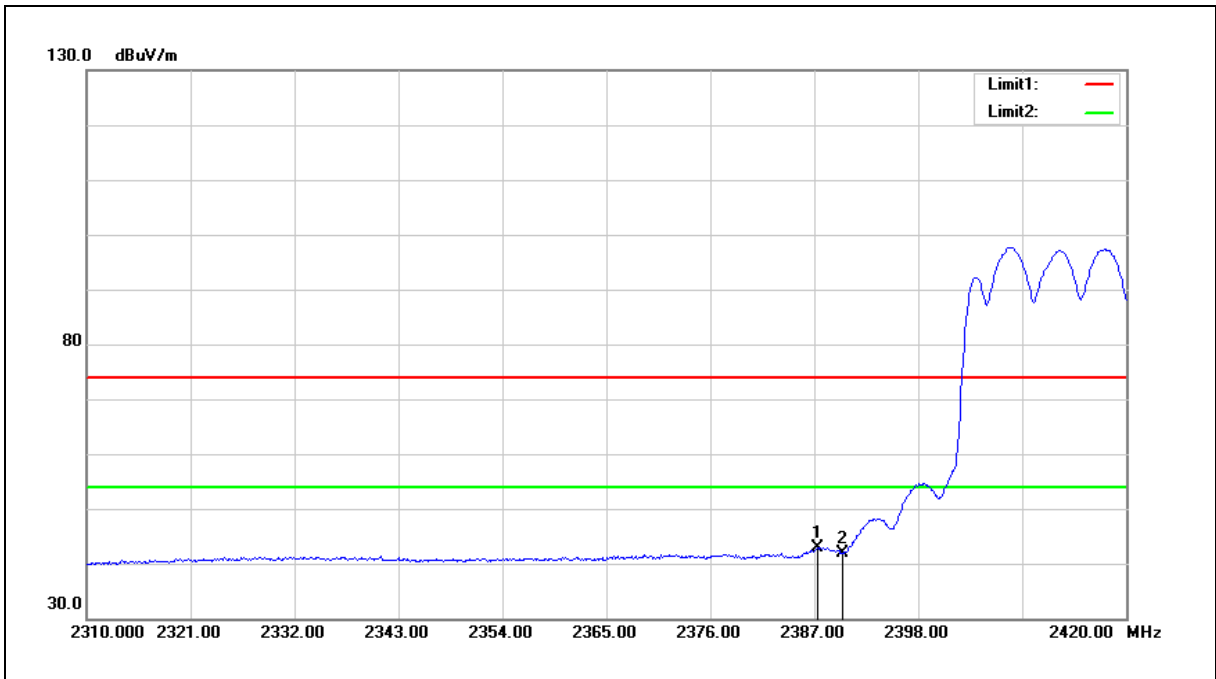
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2412 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.980	58.29	-7.30	50.99	54.00	-3.01	AVG
2	2390.000	59.25	-7.30	51.95	54.00	-2.05	AVG

- 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:	2412 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		

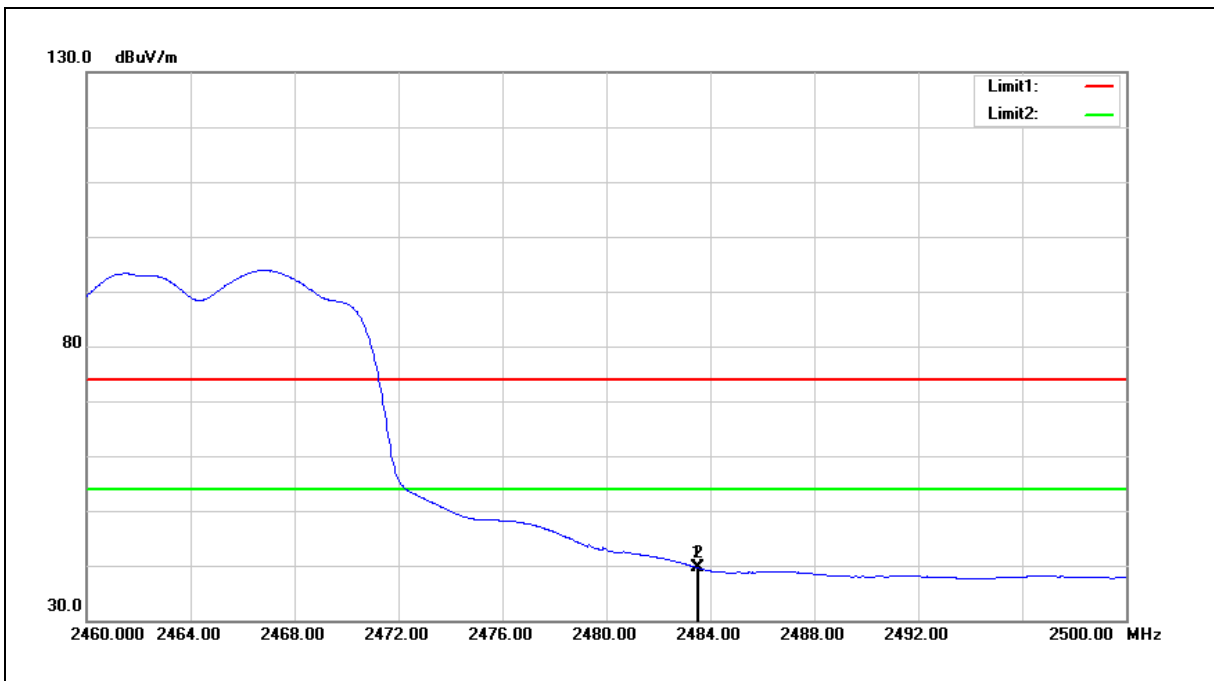


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.330	50.24	-7.33	42.91	54.00	-11.09	AVG
2	2390.000	49.15	-7.30	41.85	54.00	-12.15	AVG

- 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.



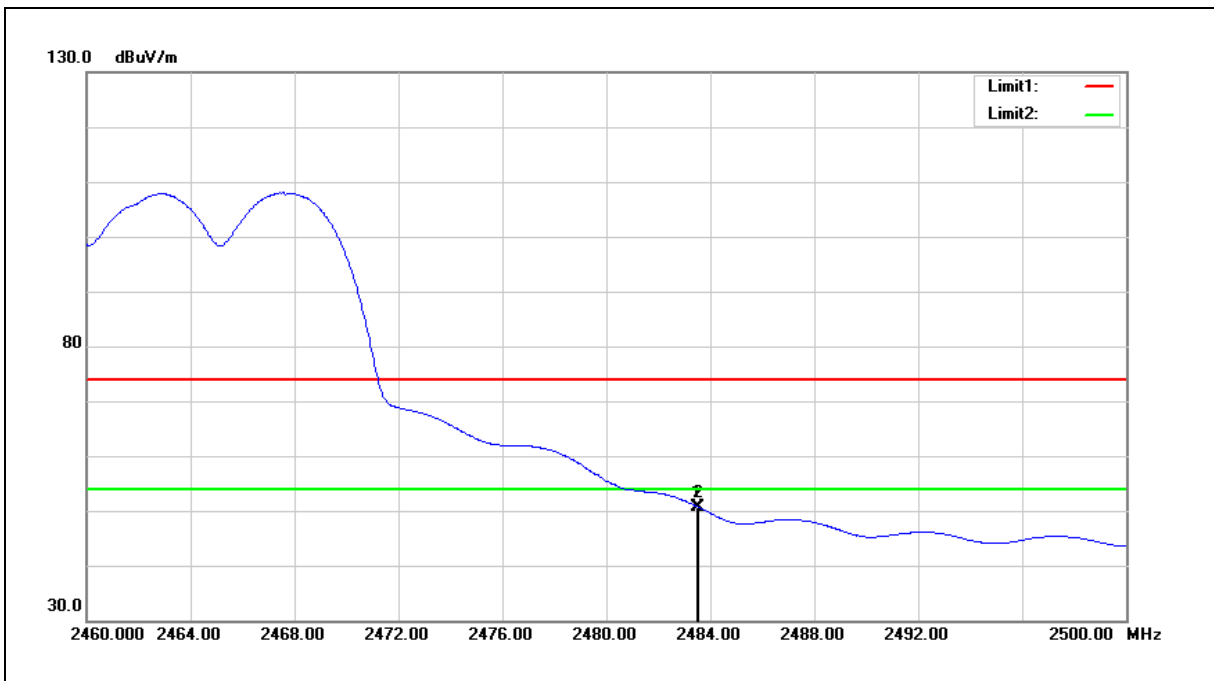
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2462 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	46.54	-6.94	39.60	54.00	-14.40	AVG
2	2483.560	46.47	-6.94	39.53	54.00	-14.47	AVG

- 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.

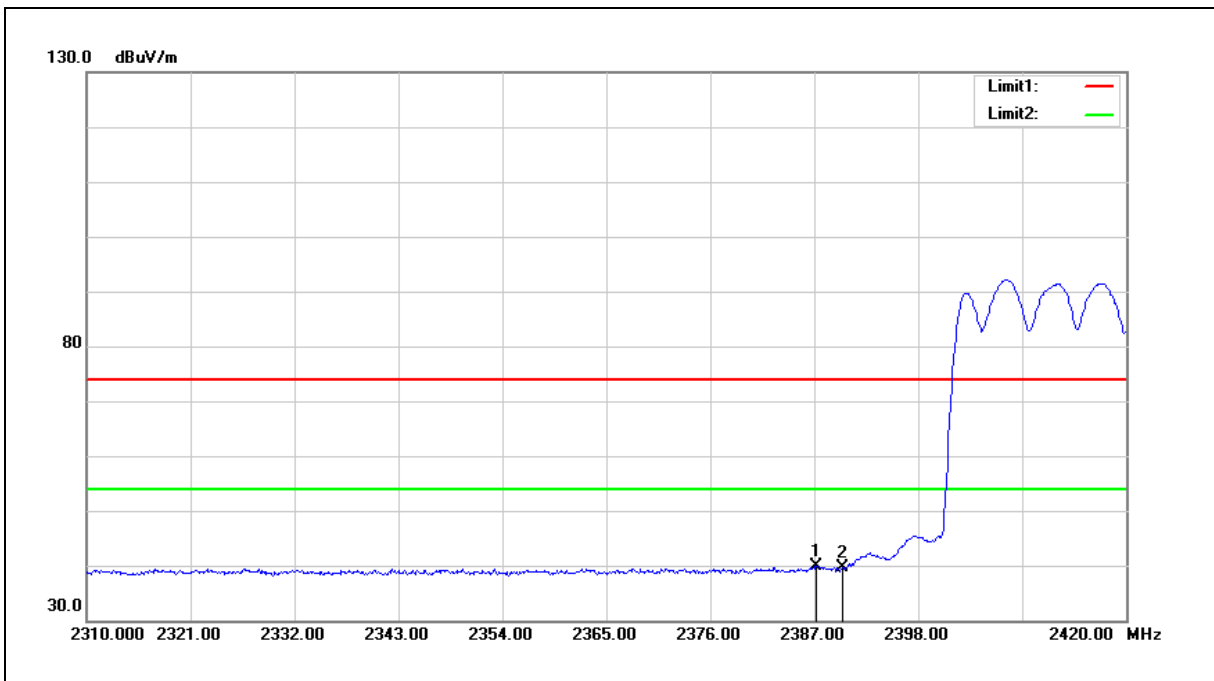
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2462 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	57.66	-6.94	50.72	54.00	-3.28	AVG
2	2483.560	57.59	-6.94	50.65	54.00	-3.35	AVG

- 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:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



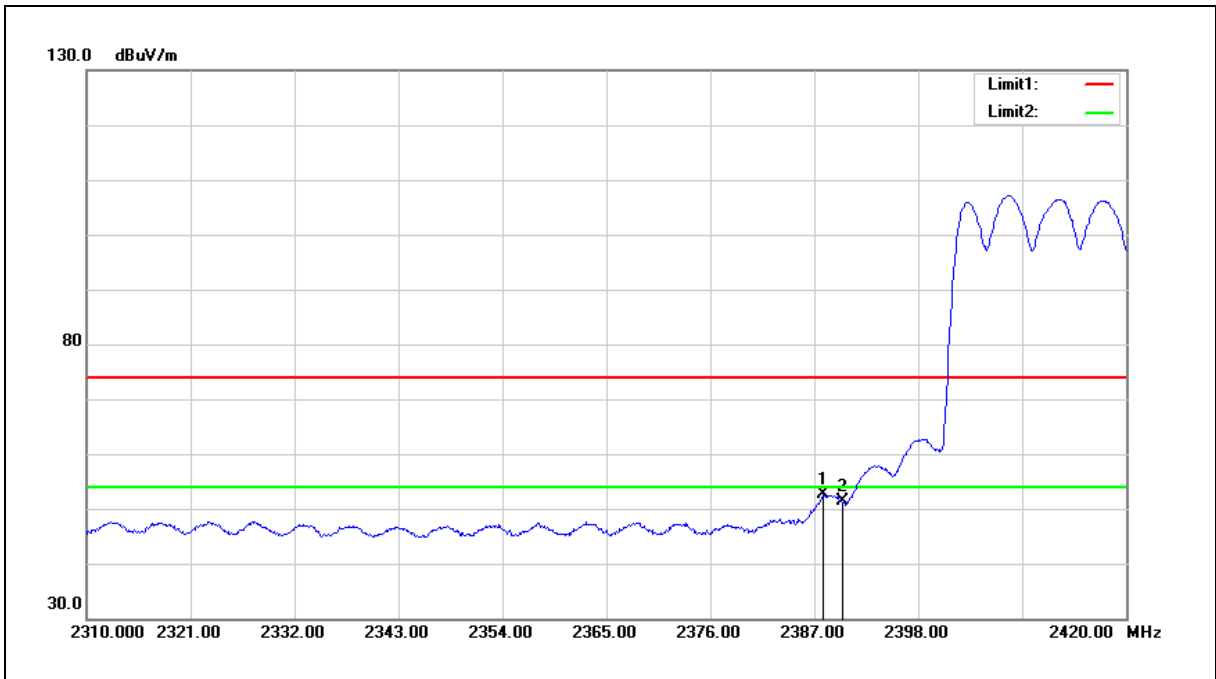
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.220	47.19	-7.33	39.86	54.00	-14.14	AVG
2	2390.000	46.86	-7.30	39.56	54.00	-14.44	AVG

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.

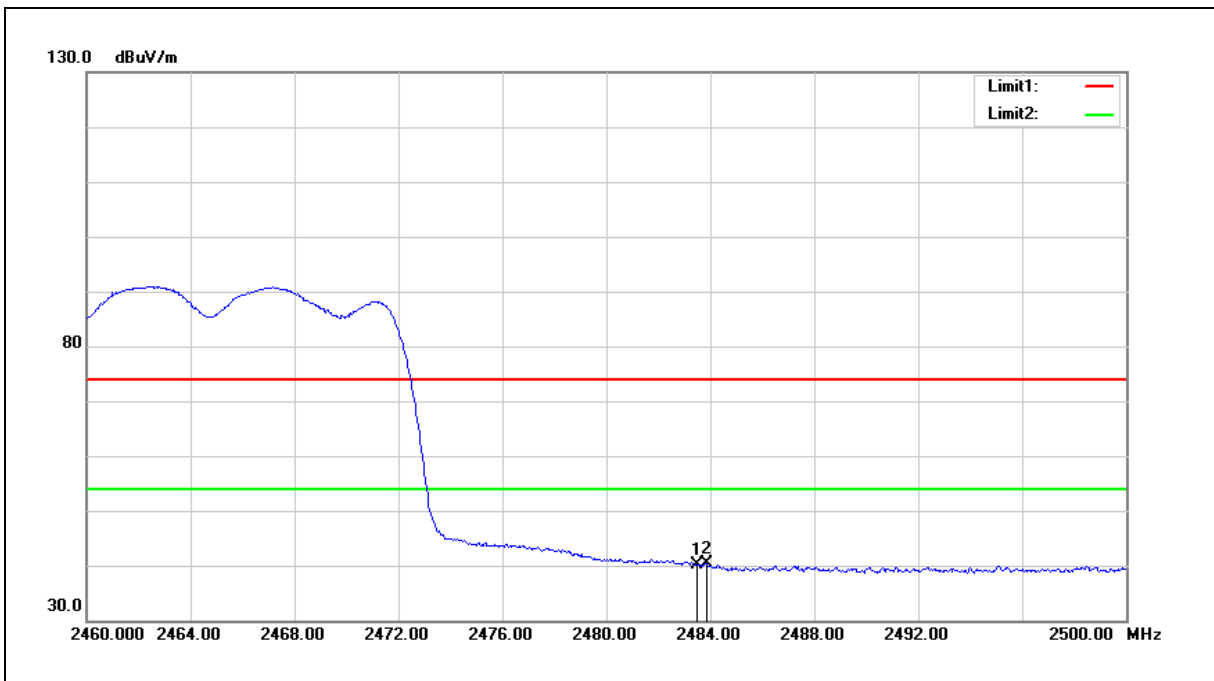
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.990	59.84	-7.32	52.52	54.00	-1.48	AVG
2	2390.000	58.72	-7.30	51.42	54.00	-2.58	AVG

- 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.

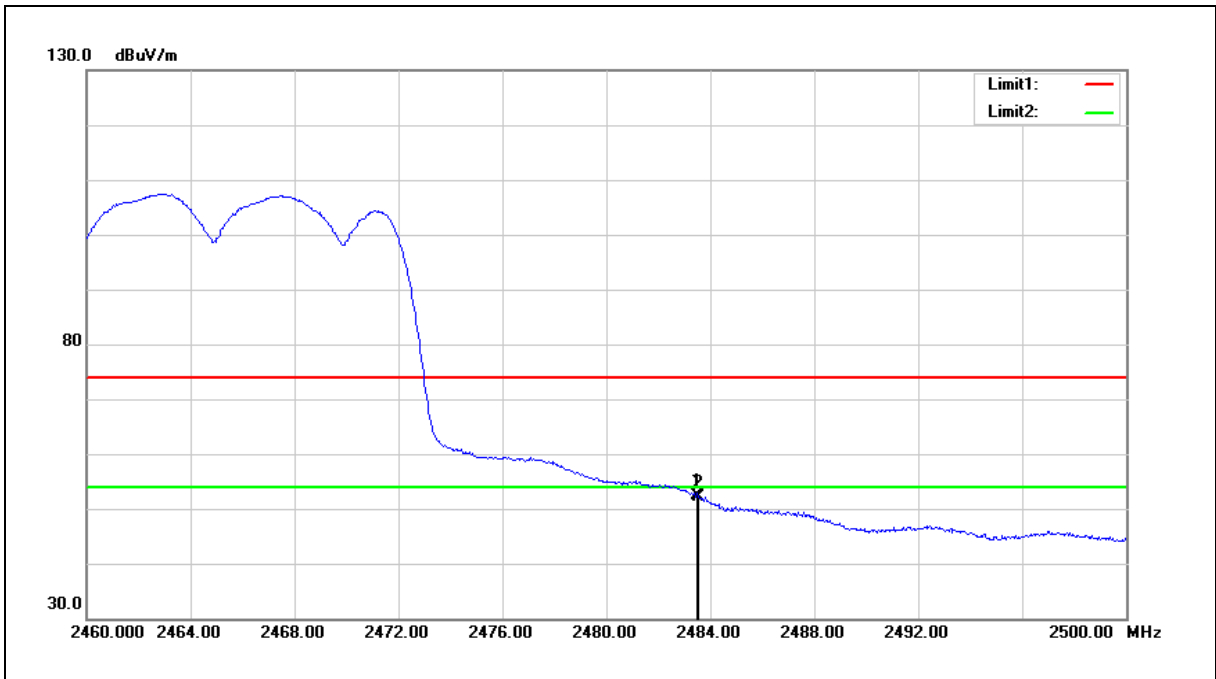
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	47.12	-6.94	40.18	54.00	-13.82	AVG
2	2483.840	47.33	-6.94	40.39	54.00	-13.61	AVG

- 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.

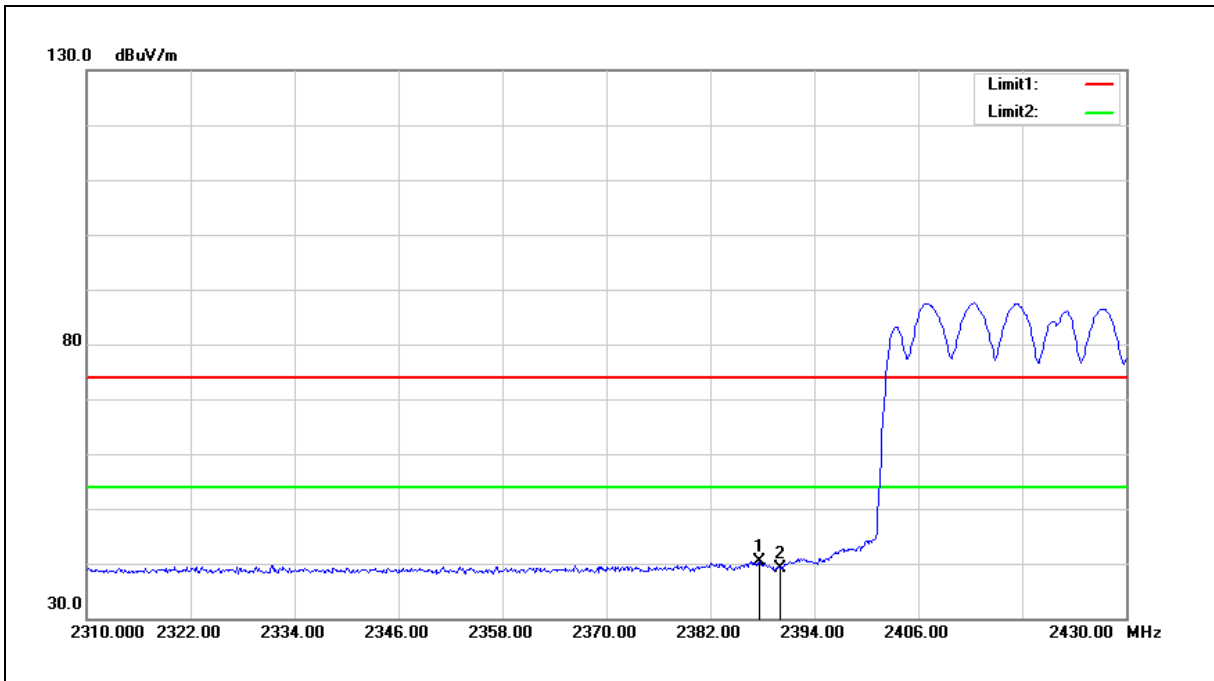
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	59.31	-6.94	52.37	54.00	-1.63	AVG
2	2483.560	59.16	-6.94	52.22	54.00	-1.78	AVG

- 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:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



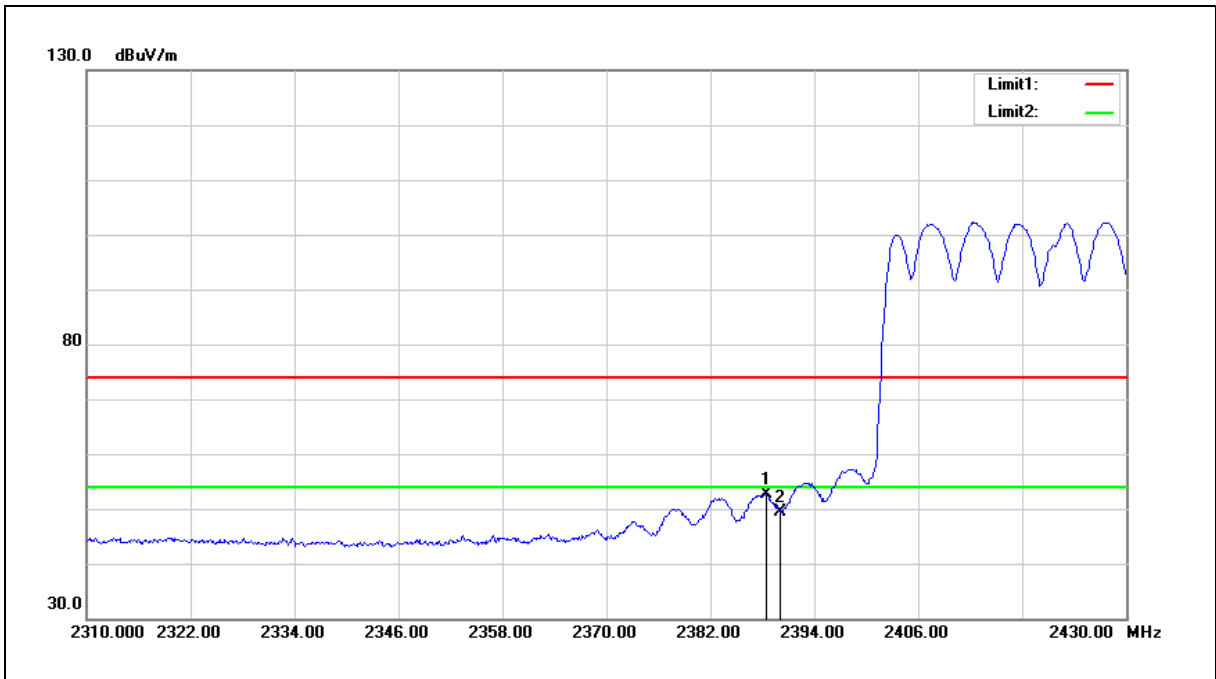
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.640	47.69	-7.32	40.37	54.00	-13.63	AVG
2	2390.000	46.49	-7.30	39.19	54.00	-14.81	AVG

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:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		

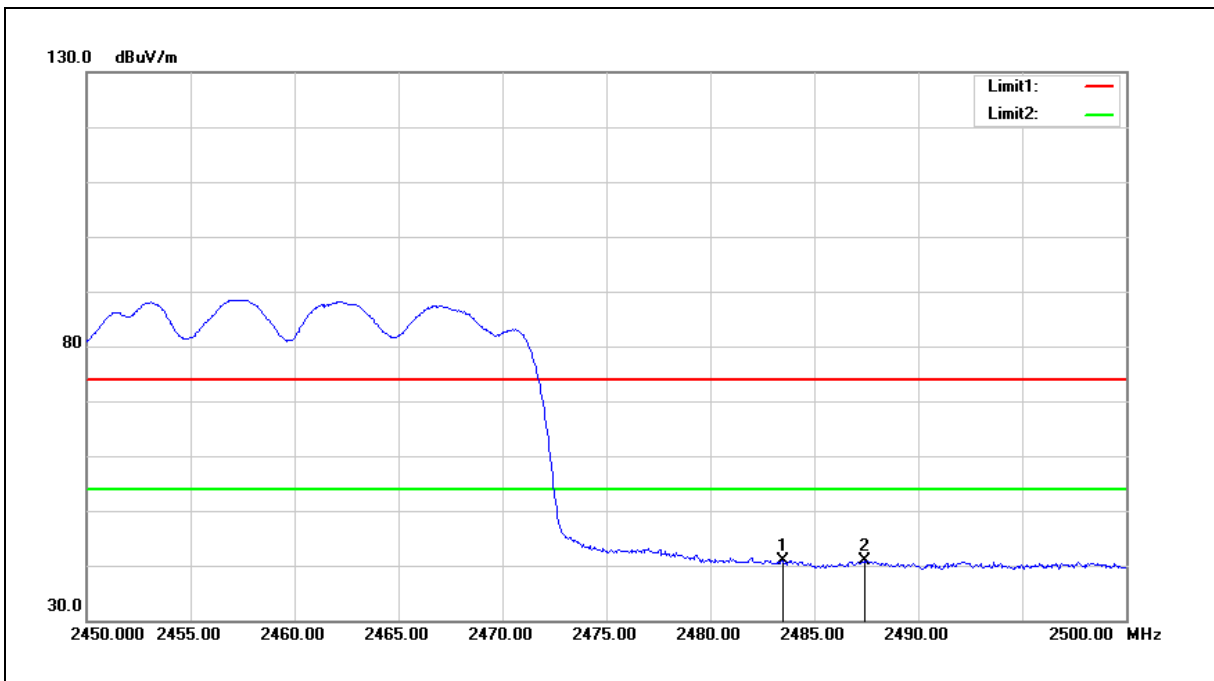


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.480	59.86	-7.31	52.55	54.00	-1.45	AVG
2	2390.000	56.56	-7.30	49.26	54.00	-4.74	AVG

- 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.



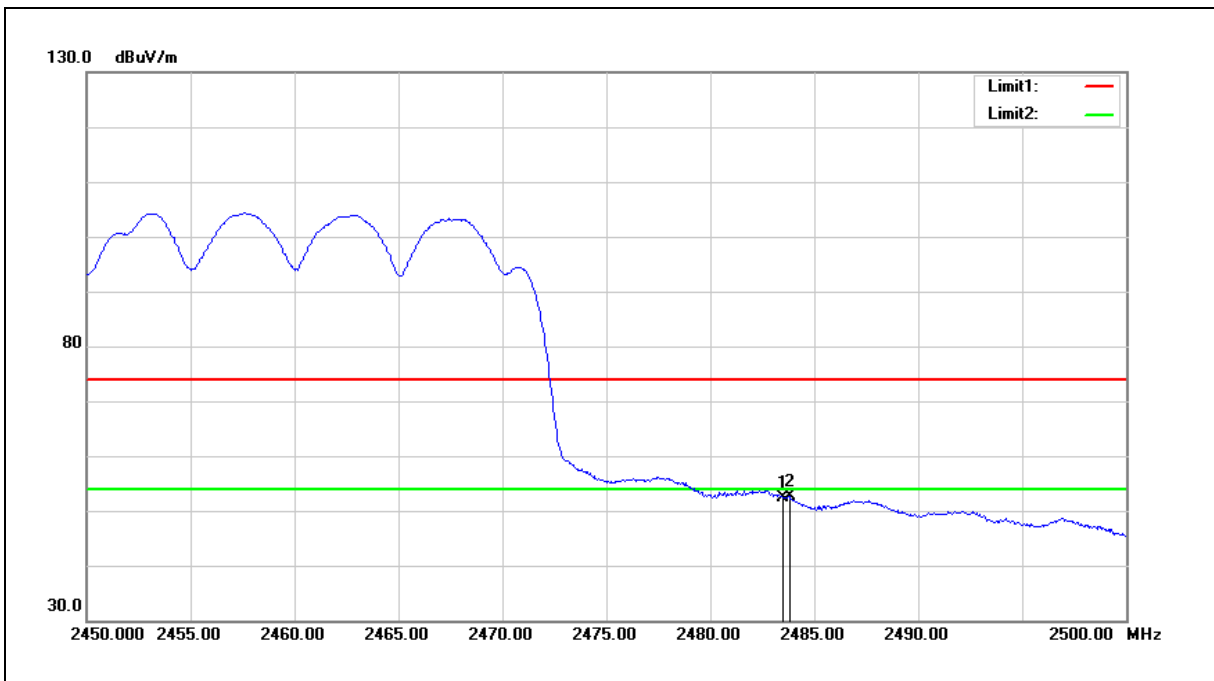
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	47.92	-6.94	40.98	54.00	-13.02	AVG
2	2487.400	47.79	-6.92	40.87	54.00	-13.13	AVG

- 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:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



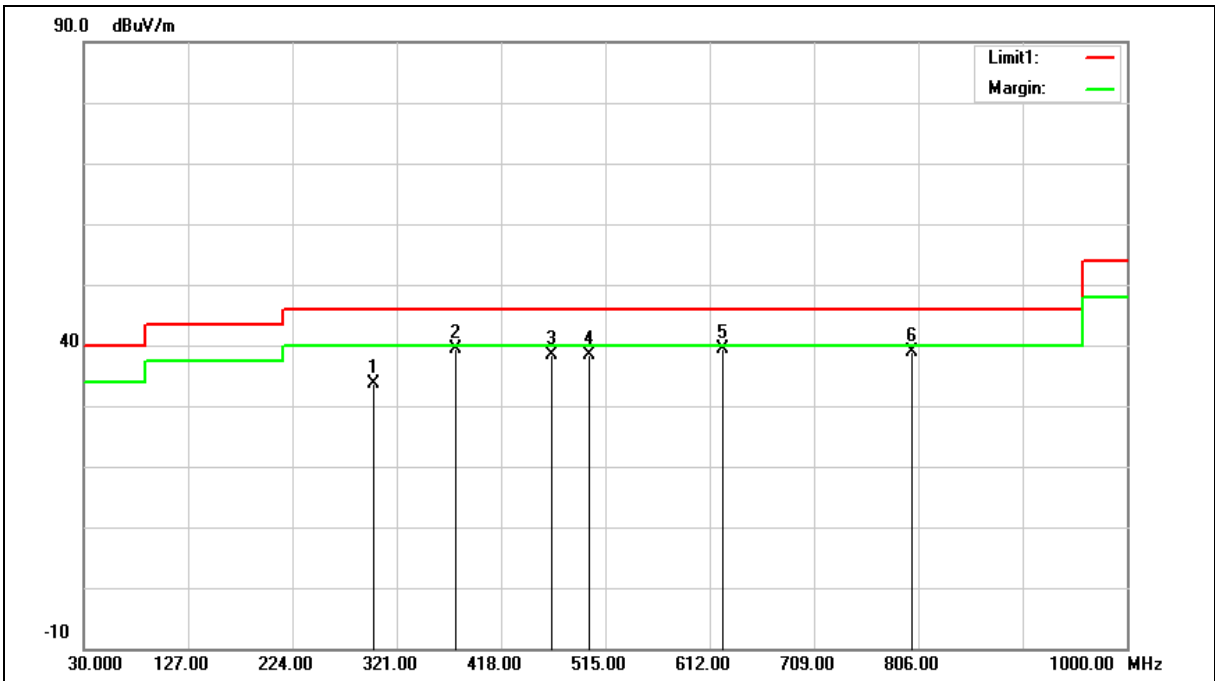
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	59.33	-6.94	52.39	54.00	-1.61	AVG
2	2483.800	59.58	-6.94	52.64	54.00	-1.36	AVG

- 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.

Beamforming on

Below 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3m
Frequency:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



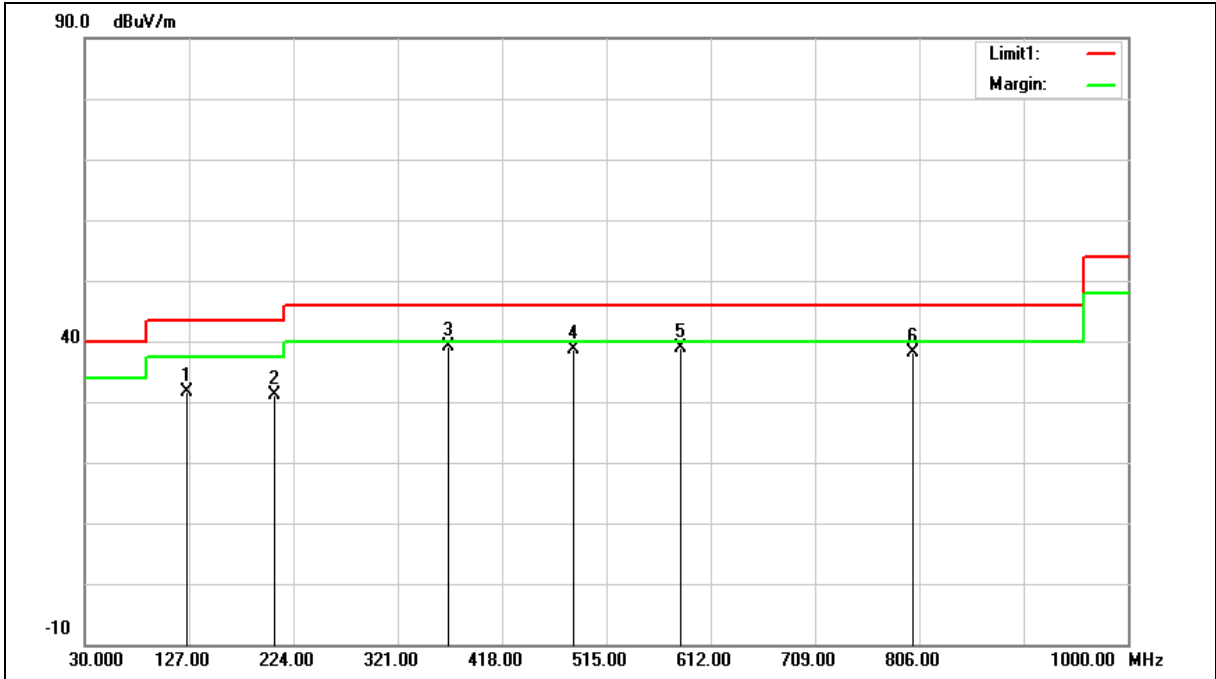
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	299.6600	39.56	-5.91	33.65	46.00	-12.35	QP
2	375.3200	43.53	-4.15	39.38	46.00	-6.62	QP
3	464.5600	40.82	-2.35	38.47	46.00	-7.53	QP
4	500.4500	40.17	-1.83	38.34	46.00	-7.66	QP
5	624.6100	38.15	1.25	39.40	46.00	-6.60	QP
6	800.1800	34.35	4.45	38.80	46.00	-7.20	QP

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:	3m
Frequency:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	125.0600	40.66	-8.93	31.73	43.50	-11.77	QP
2	206.5400	40.24	-9.10	31.14	43.50	-12.36	QP
3	368.5300	43.44	-4.36	39.08	46.00	-6.92	QP
4	484.9300	40.65	-2.06	38.59	46.00	-7.41	QP
5	583.8700	38.57	0.43	39.00	46.00	-7.00	QP
6	800.1800	33.65	4.45	38.10	46.00	-7.90	QP

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

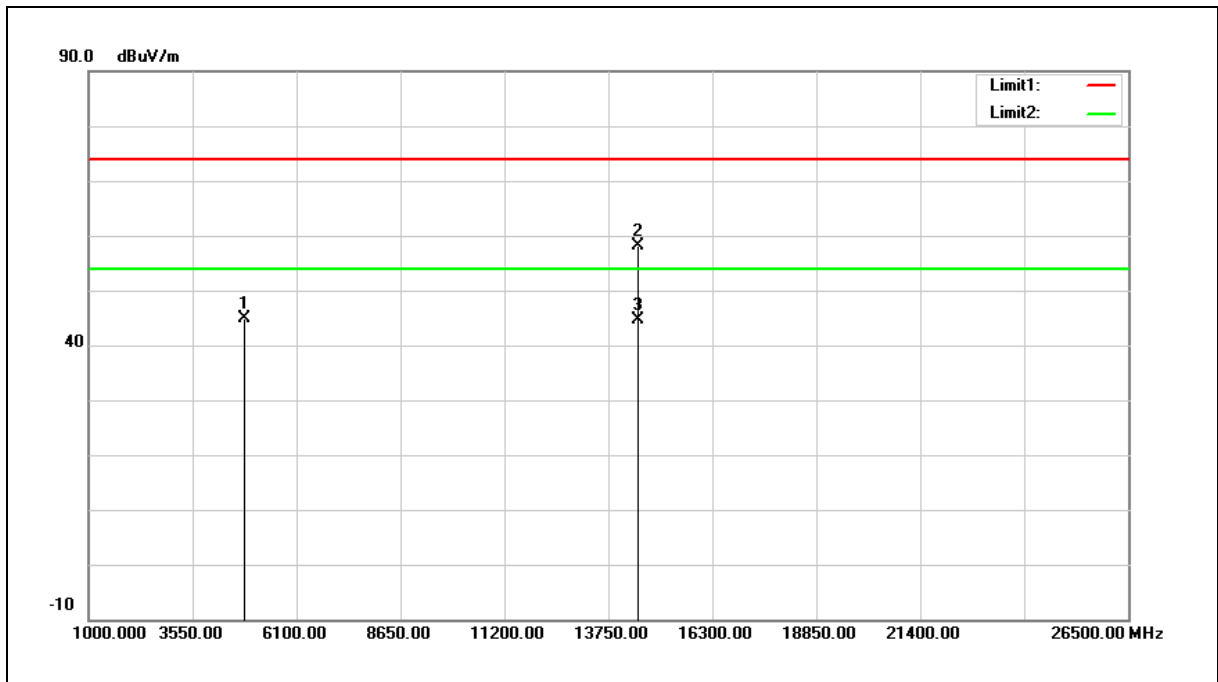
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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

**Harmonic**

Above 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



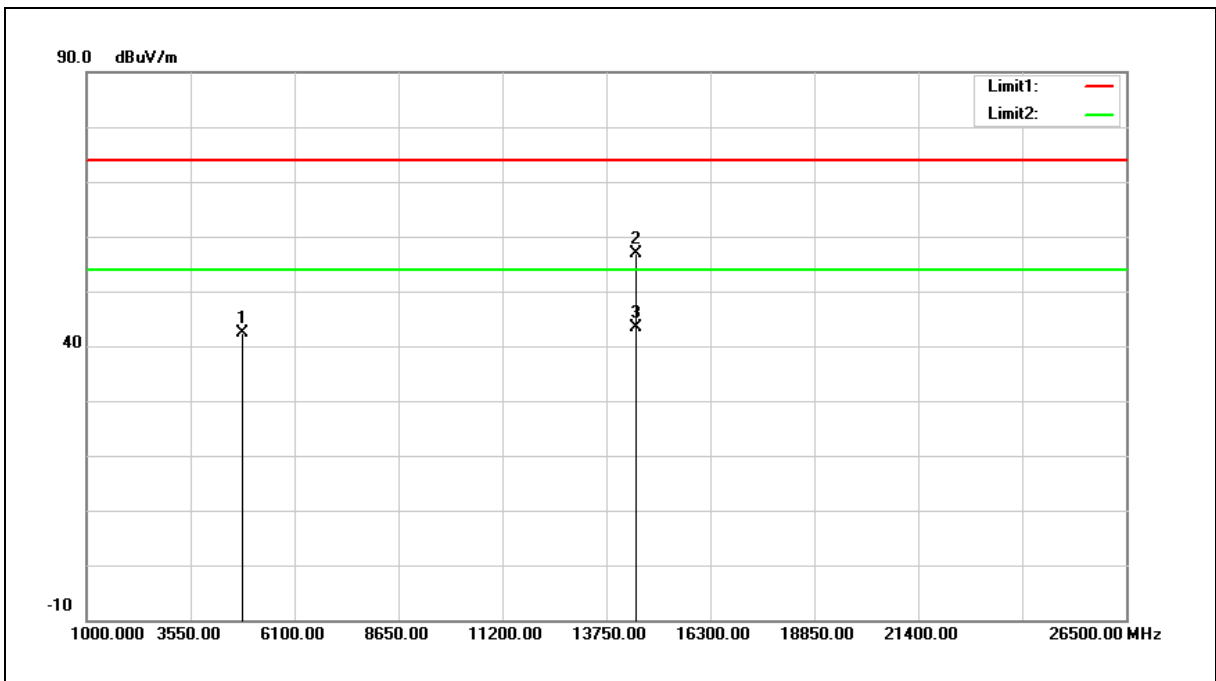
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	45.96	-0.98	44.98	74.00	-29.02	peak
2	14472.000	40.21	17.87	58.08	74.00	-15.92	peak
3	14472.000	26.72	17.87	44.59	54.00	-9.41	AVG

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.

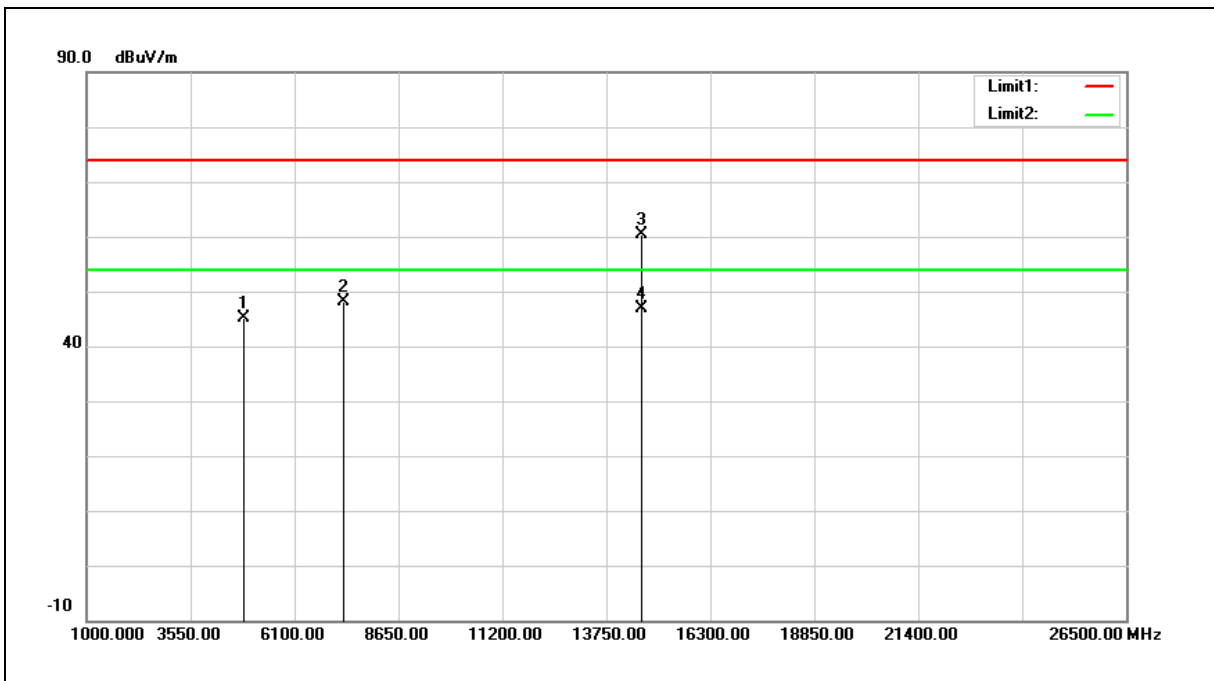
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	42.38	0.00	42.38	74.00	-31.62	peak
2	14472.000	38.97	17.82	56.79	74.00	-17.21	peak
3*	14472.000	25.62	17.82	43.44	54.00	-10.56	AVG

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:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



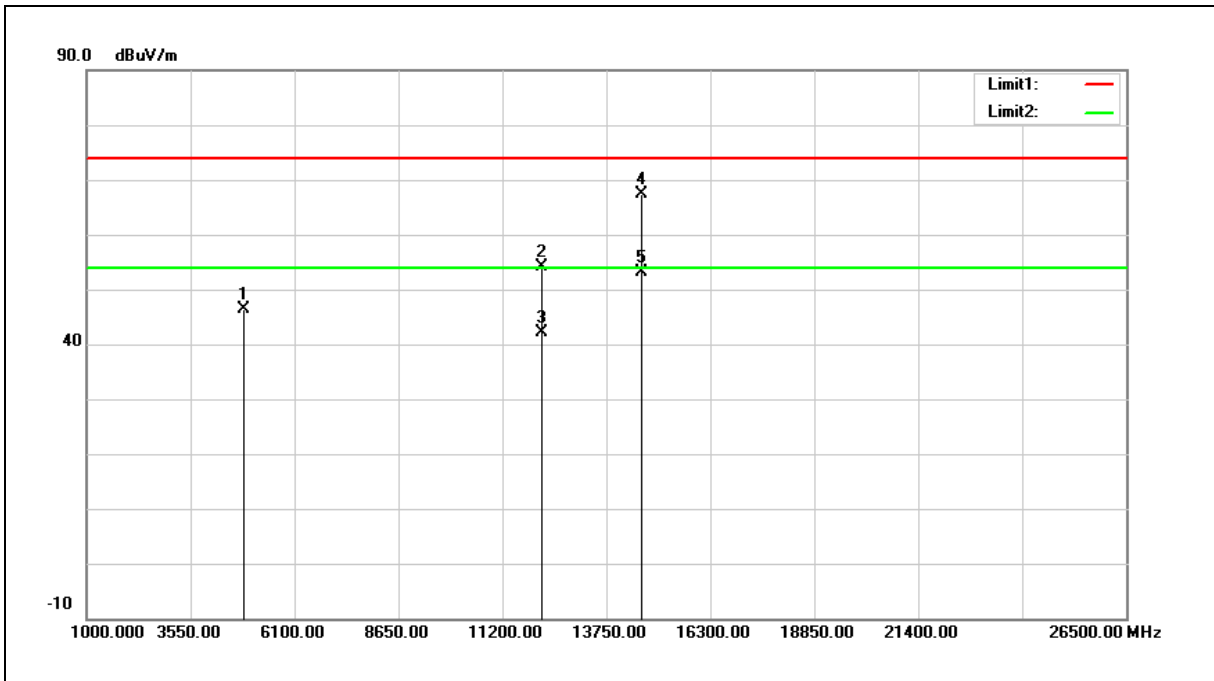
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	45.90	-0.80	45.10	74.00	-28.90	peak
2	7311.000	41.64	6.46	48.10	74.00	-25.90	peak
3	14622.000	42.23	18.07	60.30	74.00	-13.70	peak
4	14622.000	28.74	18.07	46.81	54.00	-7.19	AVG

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:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	47.18	-0.80	46.38	74.00	-27.62	peak
2	12185.000	40.22	13.96	54.18	74.00	-19.82	peak
3	12185.000	28.13	13.96	42.09	54.00	-11.91	AVG
4	14622.000	49.37	18.07	67.44	74.00	-6.56	peak
5	14622.000	35.16	18.07	53.23	54.00	-0.77	AVG

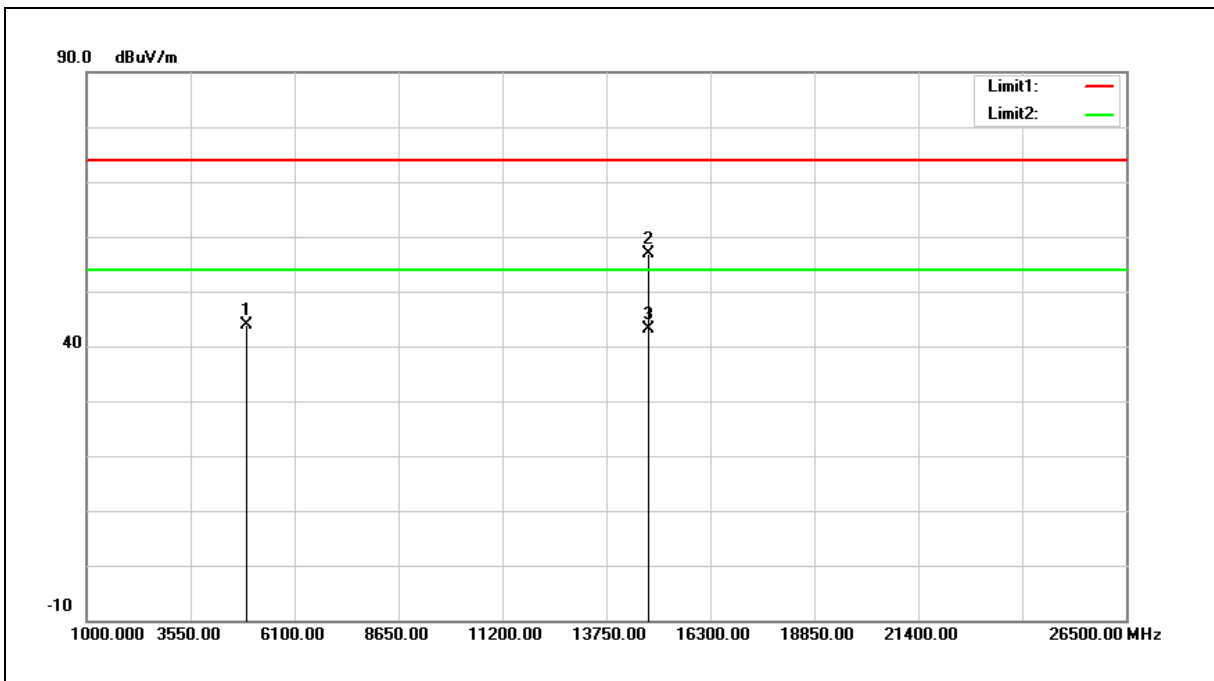
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



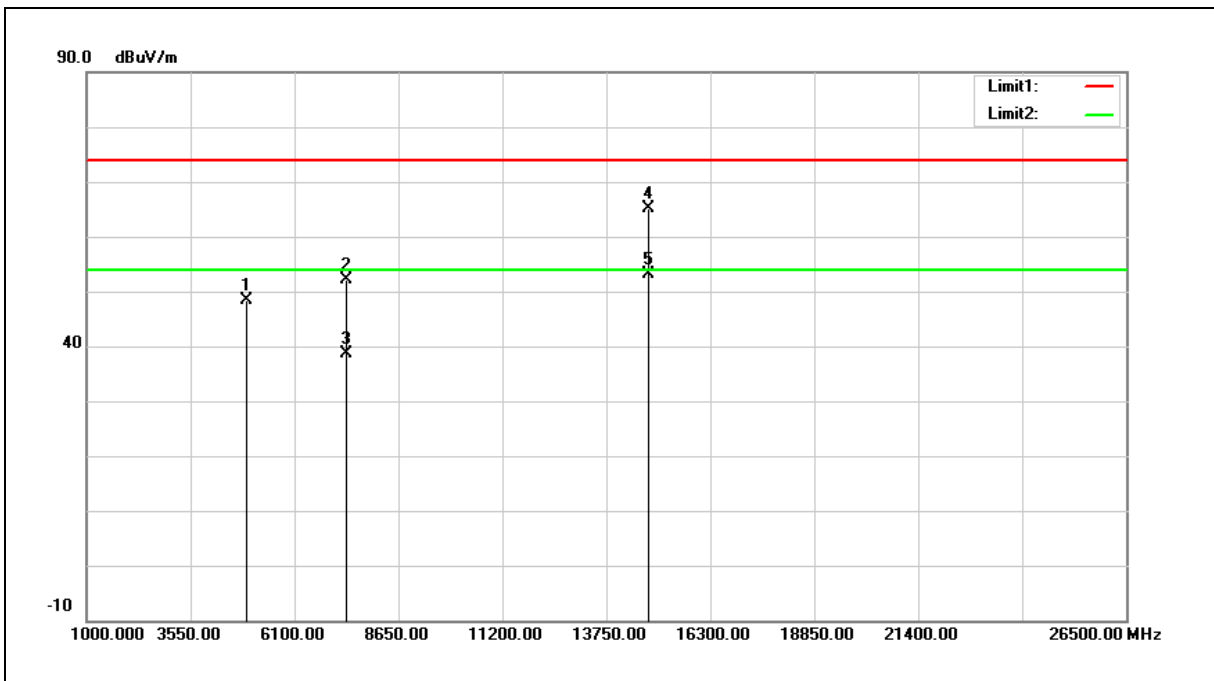
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	44.60	-0.63	43.97	74.00	-30.03	peak
2	14772.000	38.52	18.30	56.82	74.00	-17.18	peak
3	14772.000	24.91	18.30	43.21	54.00	-10.79	AVG

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:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



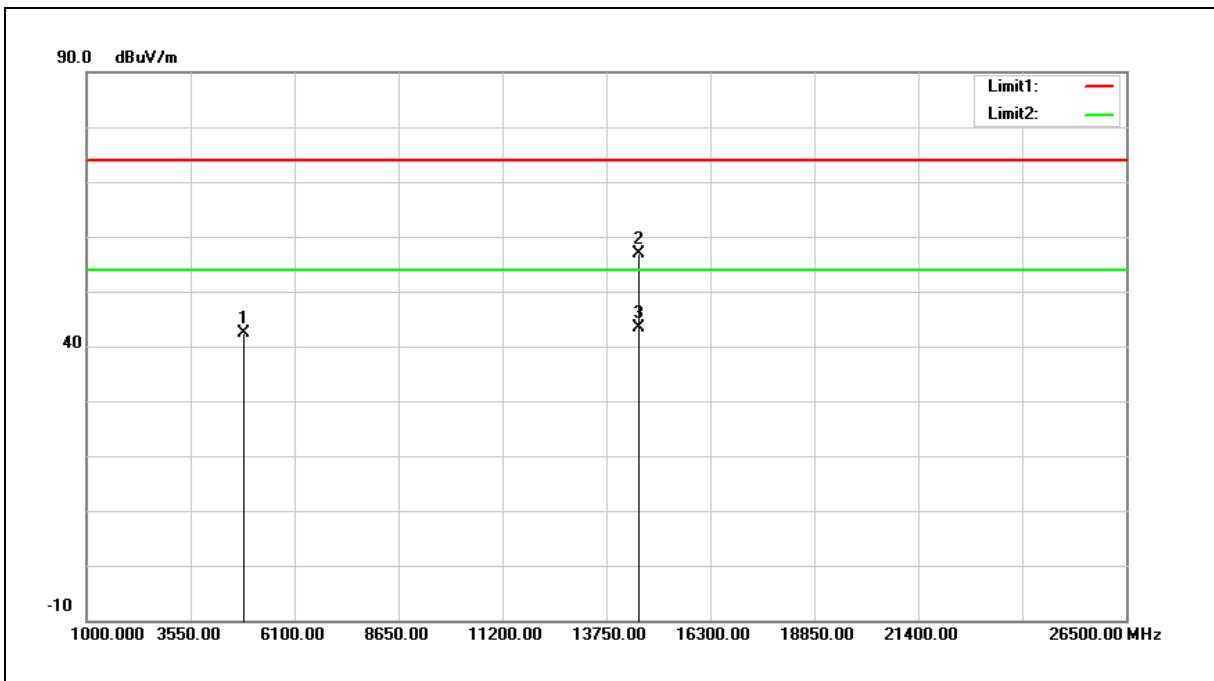
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	48.91	-0.63	48.28	74.00	-25.72	peak
2	7386.000	45.42	6.75	52.17	74.00	-21.83	peak
3	7386.000	31.86	6.75	38.61	54.00	-15.39	AVG
4	14772.000	46.93	18.30	65.23	74.00	-8.77	peak
5	14772.000	34.76	18.30	53.06	54.00	-0.94	AVG

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.

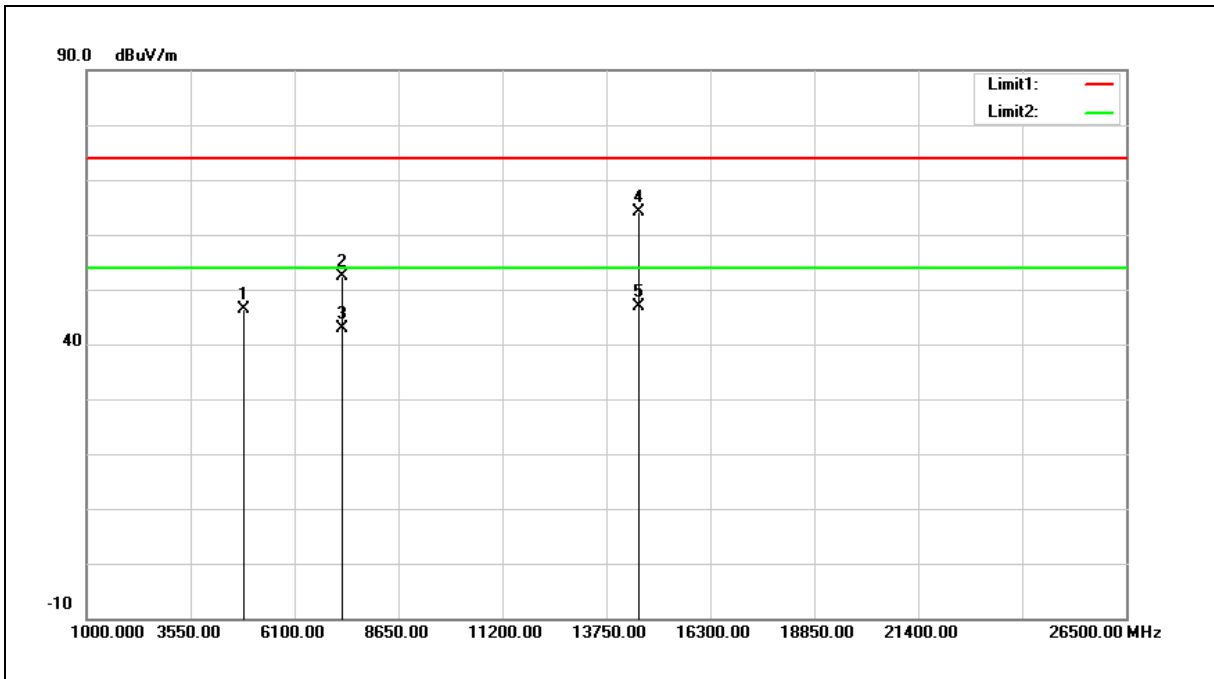
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	43.28	-0.90	42.38	74.00	-31.62	peak
2	14532.000	38.85	17.94	56.79	74.00	-17.21	peak
3	14532.000	25.50	17.94	43.44	54.00	-10.56	AVG

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:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



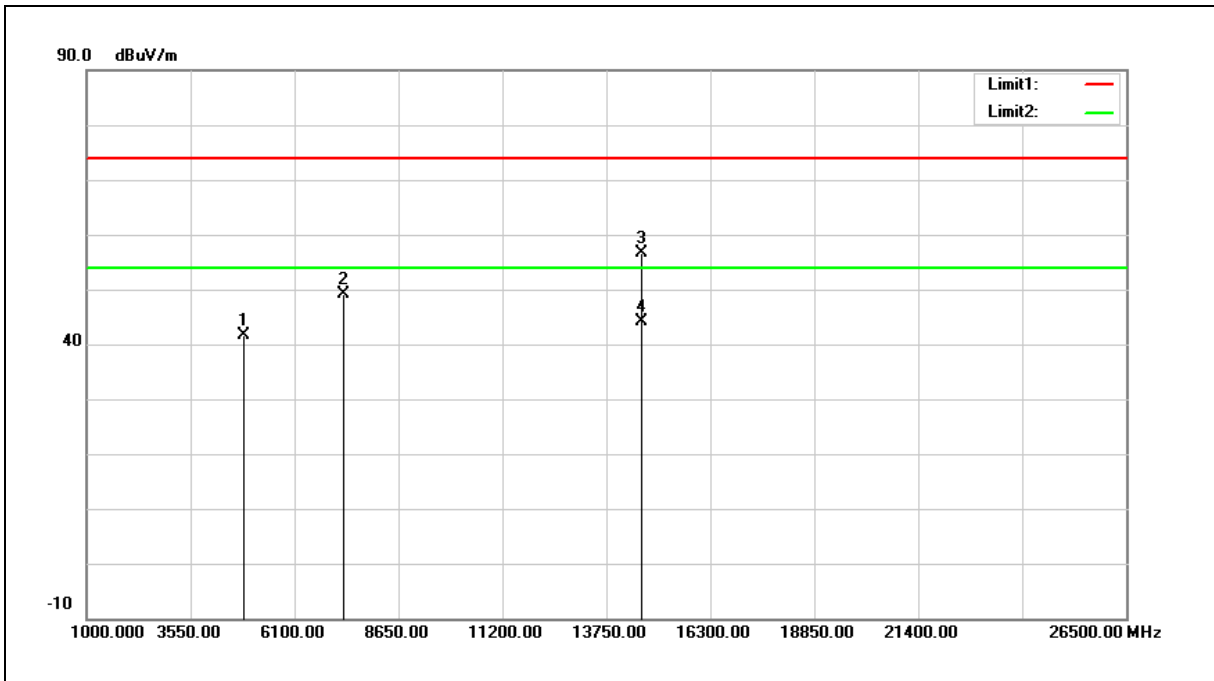
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	47.34	-0.90	46.44	74.00	-27.56	peak
2	7266.000	46.22	6.27	52.49	74.00	-21.51	peak
3	7266.000	36.72	6.27	42.99	54.00	-11.01	AVG
4	14532.000	46.11	17.94	64.05	74.00	-9.95	peak
5	14532.000	28.98	17.94	46.92	54.00	-7.08	AVG

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:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



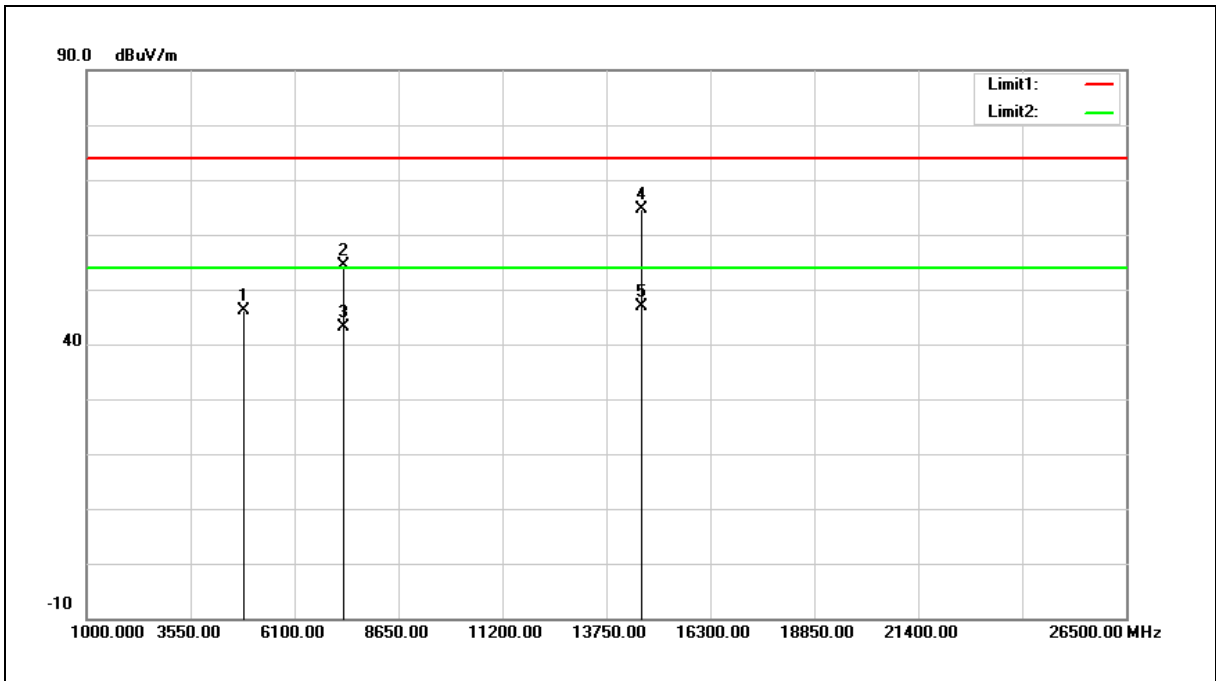
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	42.33	-0.80	41.53	74.00	-32.47	peak
2	7311.000	42.71	6.46	49.17	74.00	-24.83	peak
3	14622.000	38.56	18.07	56.63	74.00	-17.37	peak
4	14622.000	25.97	18.07	44.04	54.00	-9.96	AVG

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:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



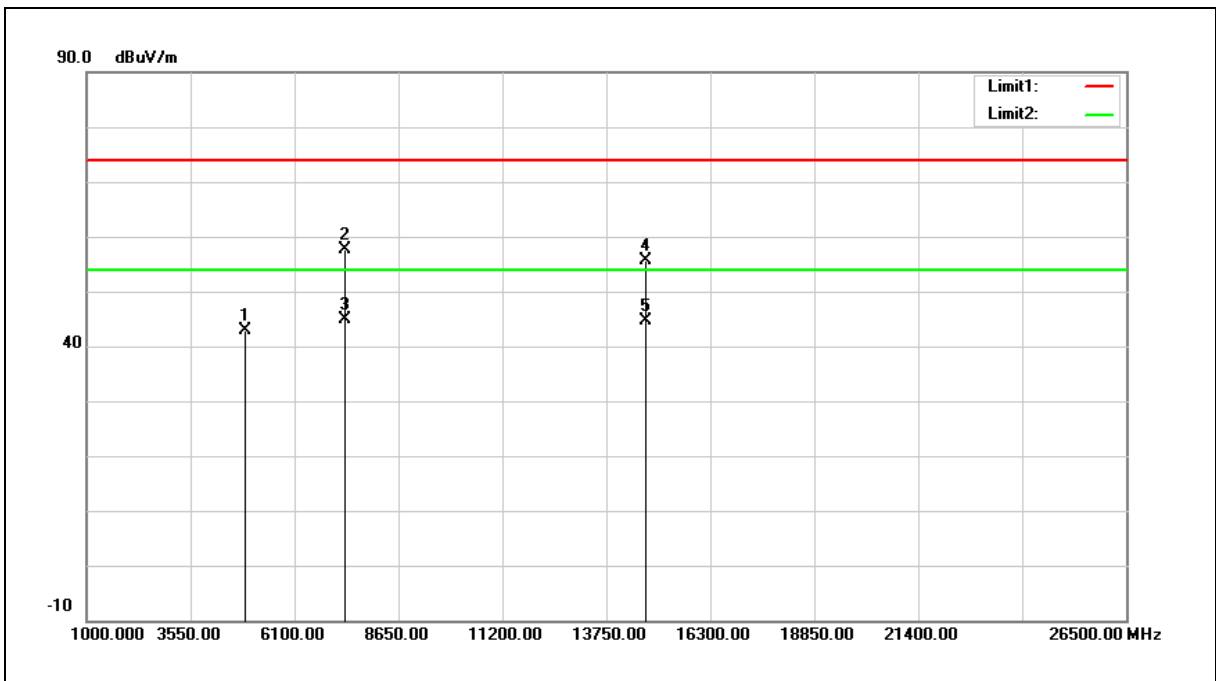
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	46.89	-0.80	46.09	74.00	-27.91	peak
2	7311.000	47.92	6.46	54.38	74.00	-19.62	peak
3	7311.000	36.68	6.46	43.14	54.00	-10.86	AVG
4	14622.000	46.68	18.07	64.75	74.00	-9.25	peak
5	14622.000	28.91	18.07	46.98	54.00	-7.02	AVG

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:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



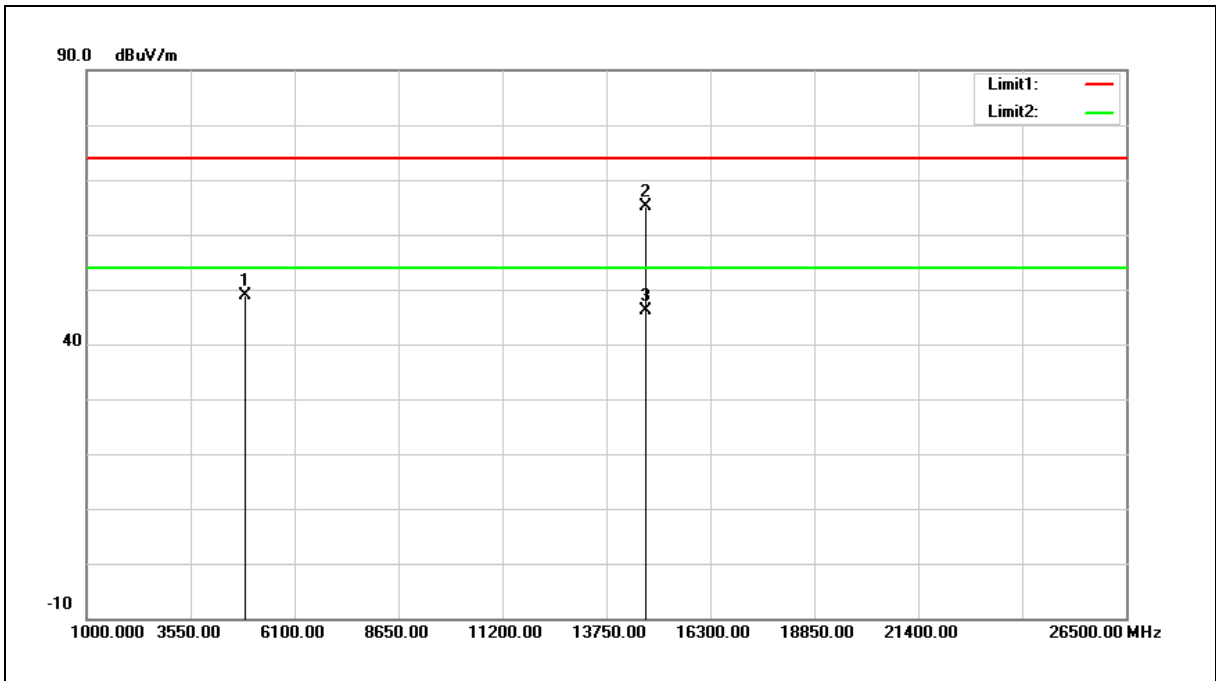
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	43.45	-0.69	42.76	74.00	-31.24	peak
2	7356.000	50.95	6.63	57.58	74.00	-16.42	peak
3	7356.000	38.33	6.63	44.96	54.00	-9.04	AVG
4	14712.000	37.52	18.22	55.74	74.00	-18.26	peak
5	14712.000	26.34	18.22	44.56	54.00	-9.44	AVG

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:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	49.61	-0.69	48.92	74.00	-25.08	peak
2	14712.000	46.95	18.22	65.17	74.00	-8.83	peak
3	14712.000	27.95	18.22	46.17	54.00	-7.83	AVG

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).

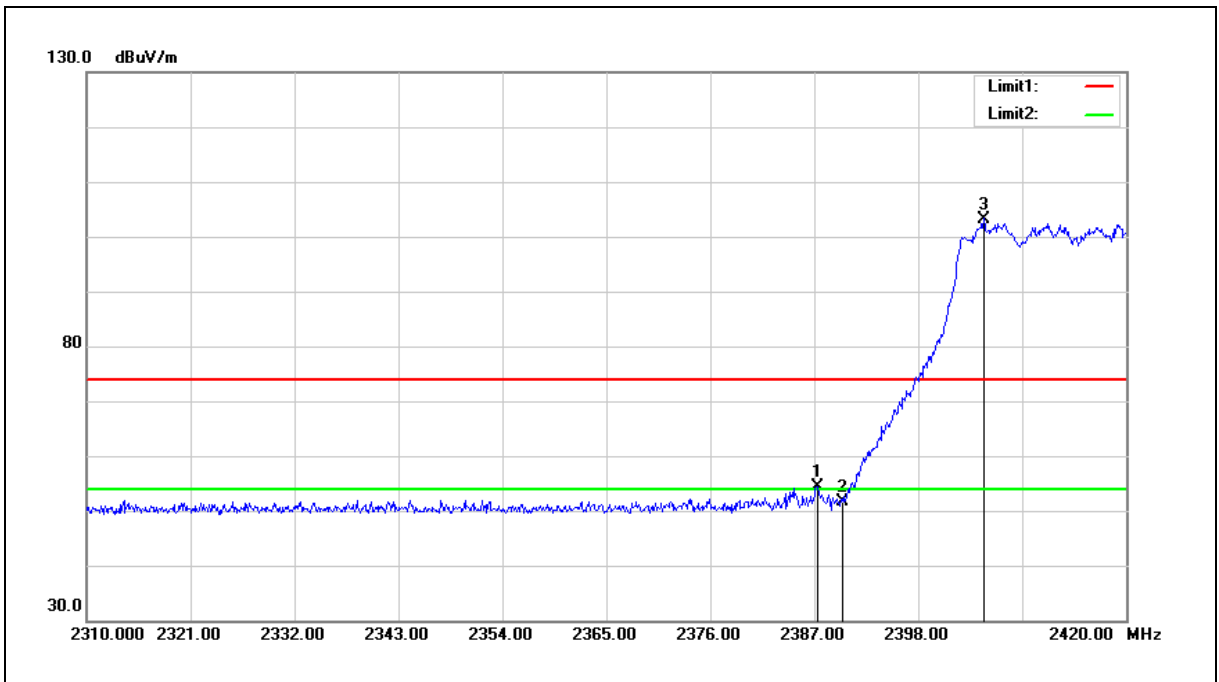
3.When the peak results are less than average limit, so not need to evaluate the average.



**Band Edge**

Peak

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



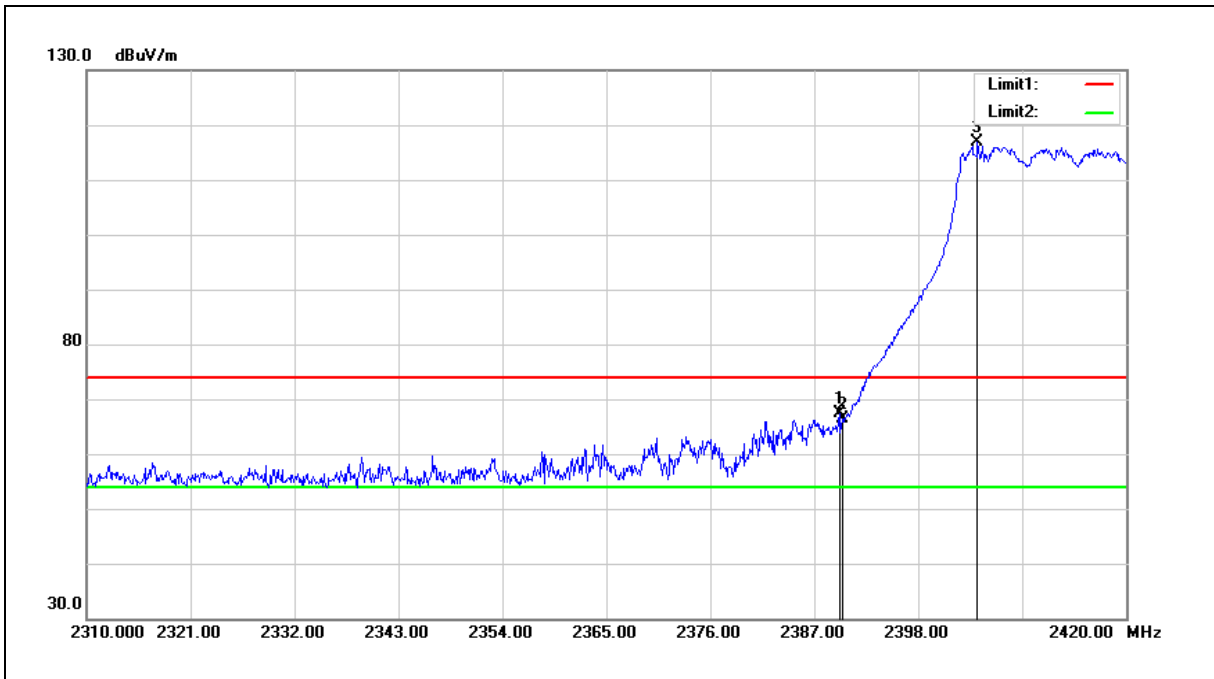
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.330	61.69	-7.33	54.36	74.00	-19.64	peak
2	2390.000	58.99	-7.30	51.69	74.00	-22.31	peak
3	2404.930	110.50	-7.25	103.25	74.00	29.25	peak

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:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



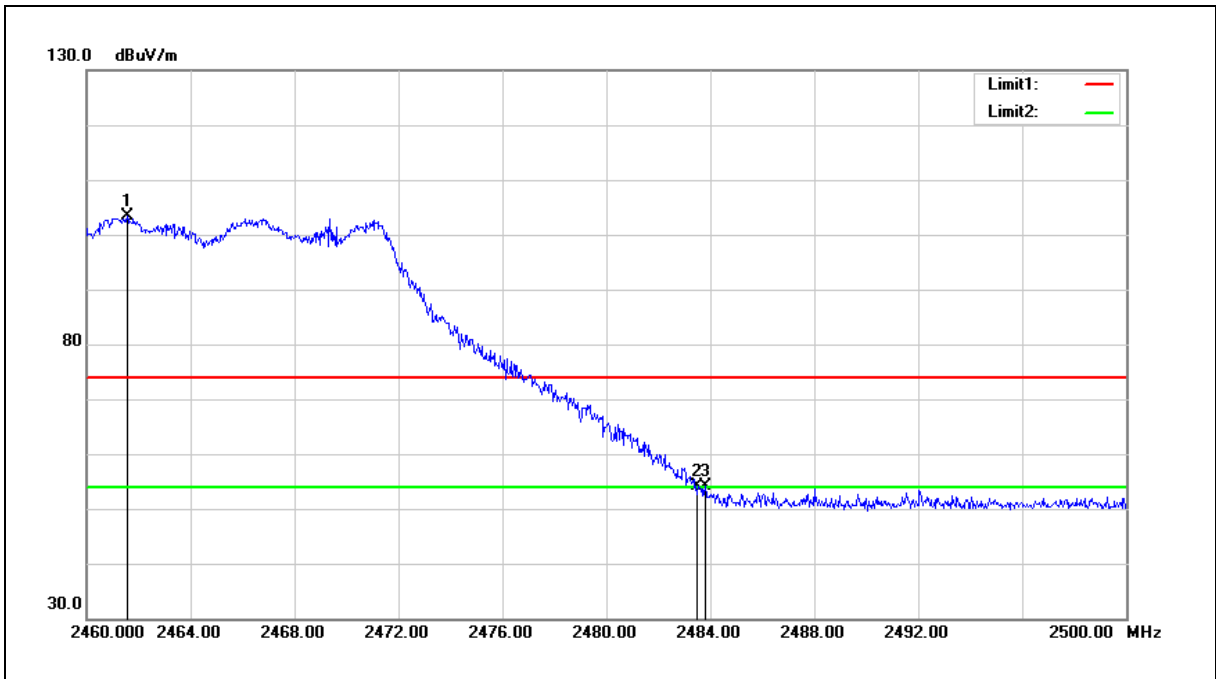
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.640	74.60	-7.30	67.30	74.00	-6.70	peak
2	2390.000	73.75	-7.30	66.45	74.00	-7.55	peak
3	2404.270	124.20	-7.25	116.95	74.00	42.95	peak

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:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



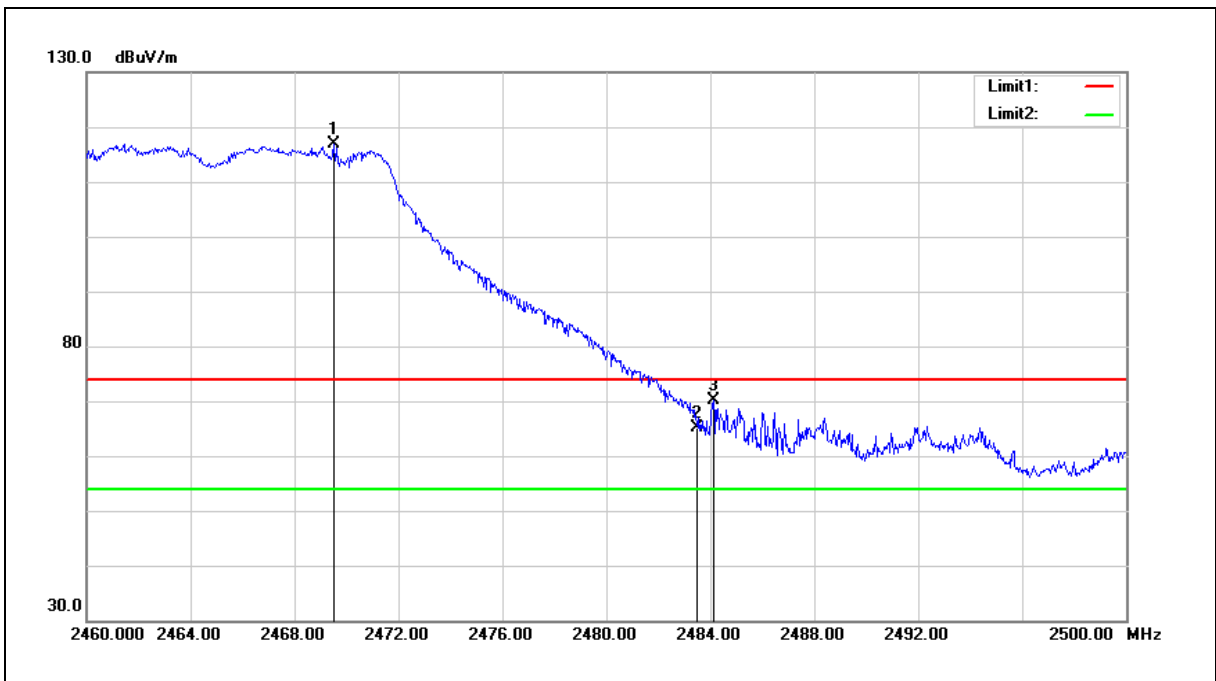
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.560	110.29	-7.03	103.26	74.00	29.26	peak
2	2483.500	61.03	-6.94	54.09	74.00	-19.91	peak
3	2483.800	60.97	-6.94	54.03	74.00	-19.97	peak

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:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



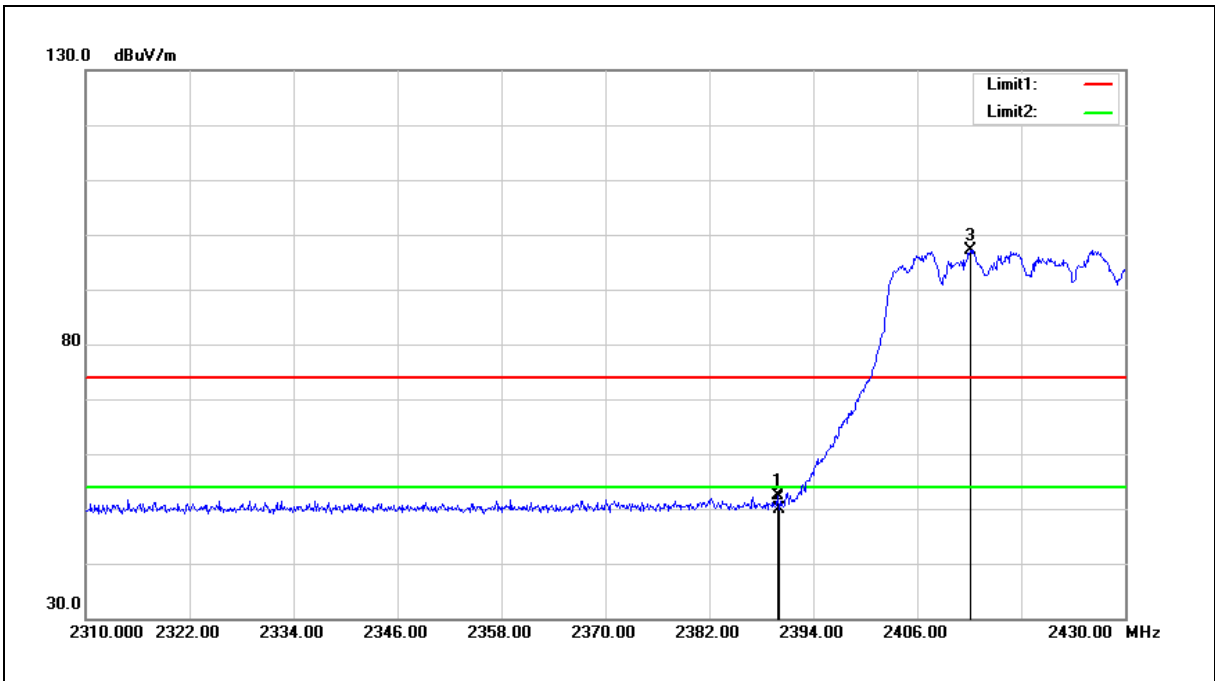
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.520	123.95	-6.99	116.96	74.00	42.96	peak
2	2483.500	72.17	-6.94	65.23	74.00	-8.77	peak
3	2484.120	77.12	-6.92	70.20	74.00	-3.80	peak

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:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



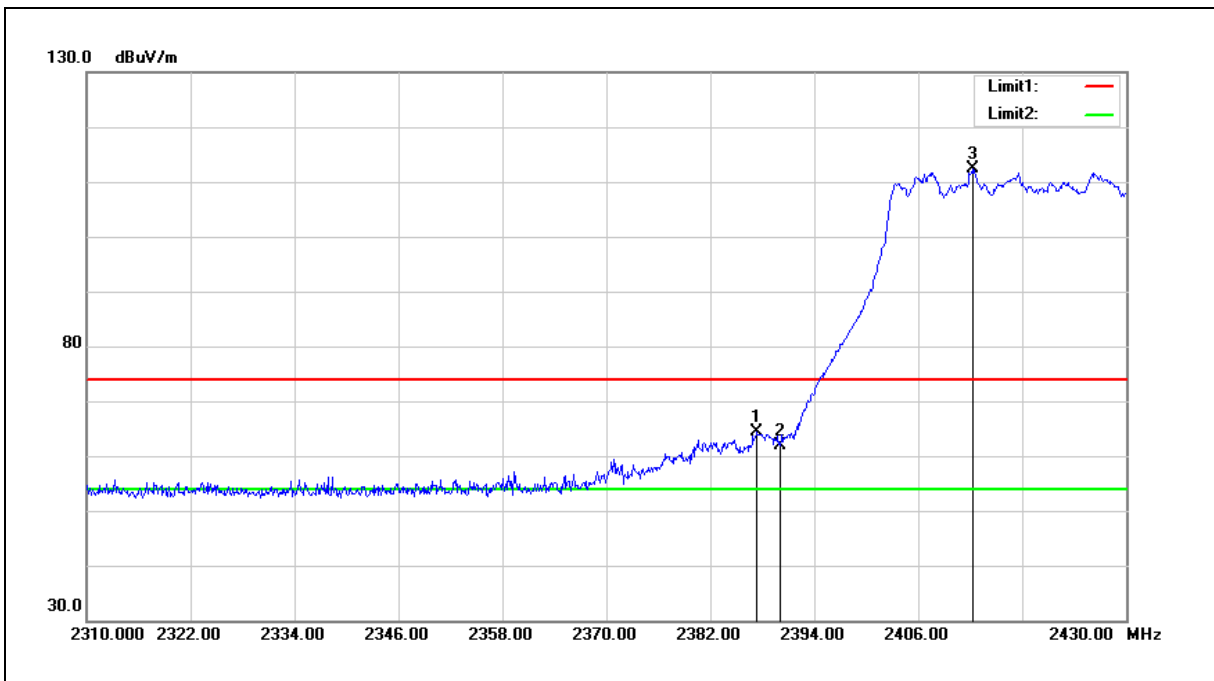
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.920	59.79	-7.30	52.49	74.00	-21.51	peak
2	2390.000	57.30	-7.30	50.00	74.00	-24.00	peak
3	2412.120	104.38	-7.22	97.16	74.00	23.16	peak

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:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



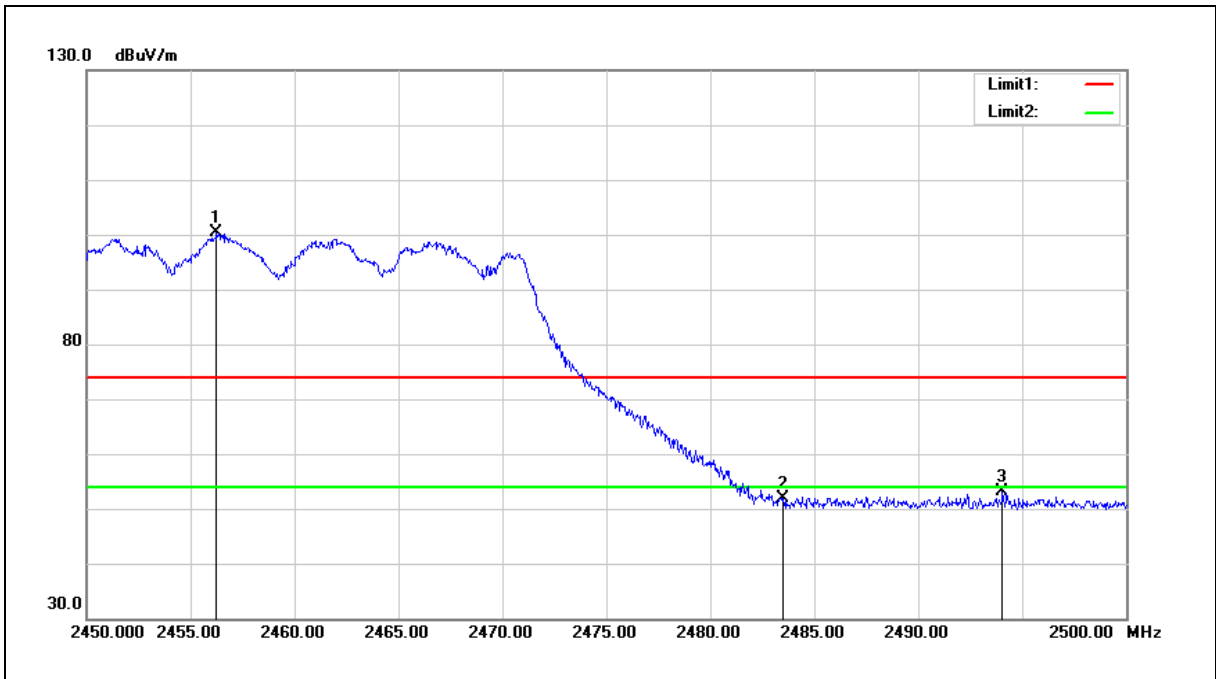
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.400	71.68	-7.33	64.35	74.00	-9.65	peak
2	2390.000	69.15	-7.30	61.85	74.00	-12.15	peak
3	2412.240	119.59	-7.22	112.37	74.00	38.37	peak

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:	Band edge		
Frequency:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



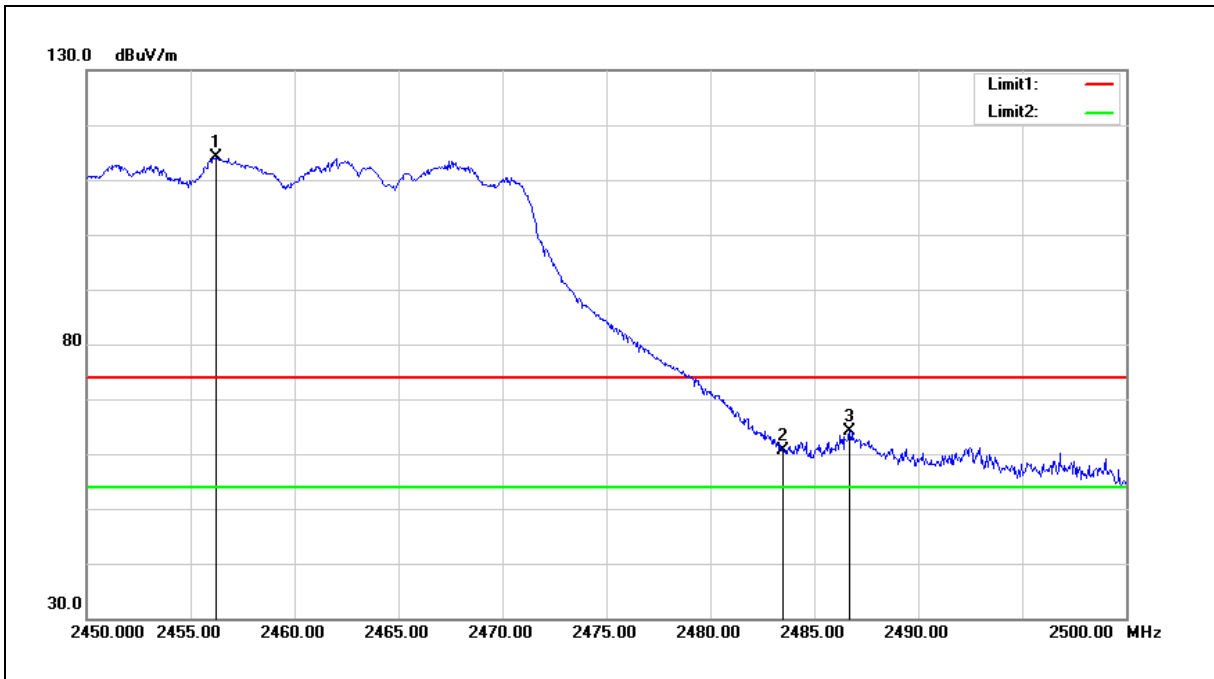
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2456.250	107.36	-7.04	100.32	74.00	26.32	peak
2	2483.500	58.72	-6.94	51.78	74.00	-22.22	peak
3	2494.050	60.05	-6.90	53.15	74.00	-20.85	peak

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:	Band edge		
Frequency:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2456.250	121.09	-7.04	114.05	74.00	40.05	peak
2	2483.500	67.67	-6.94	60.73	74.00	-13.27	peak
3	2486.700	71.06	-6.92	64.14	74.00	-9.86	peak

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

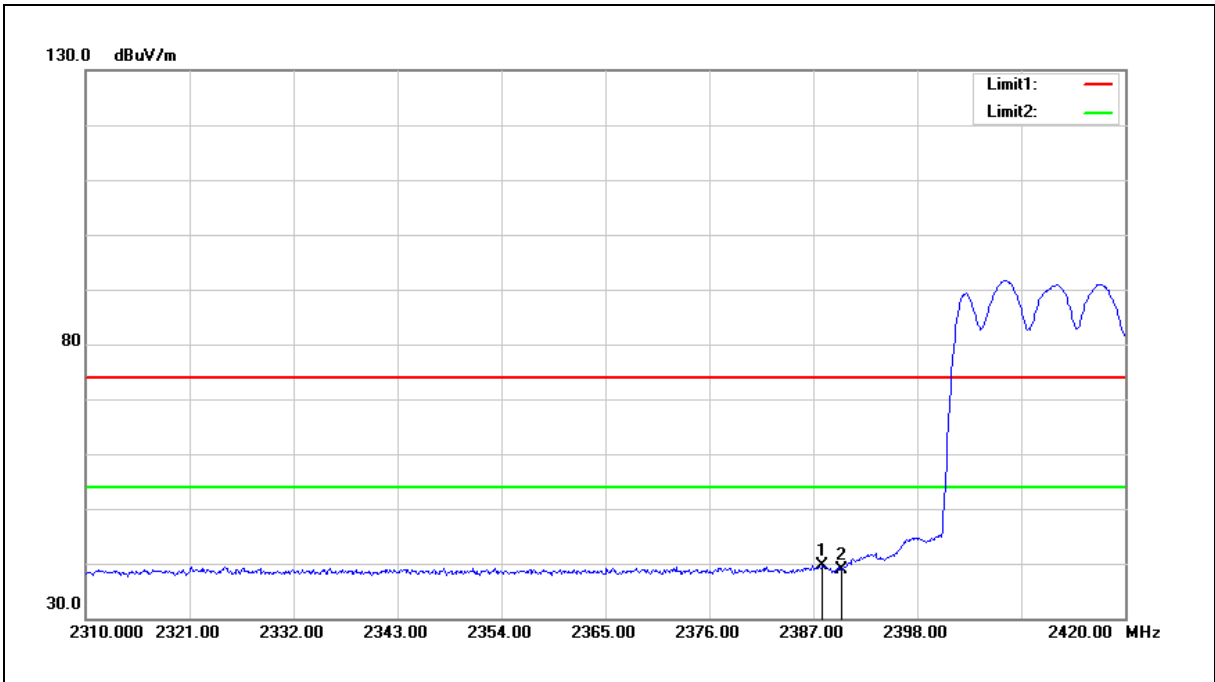
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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



Average

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



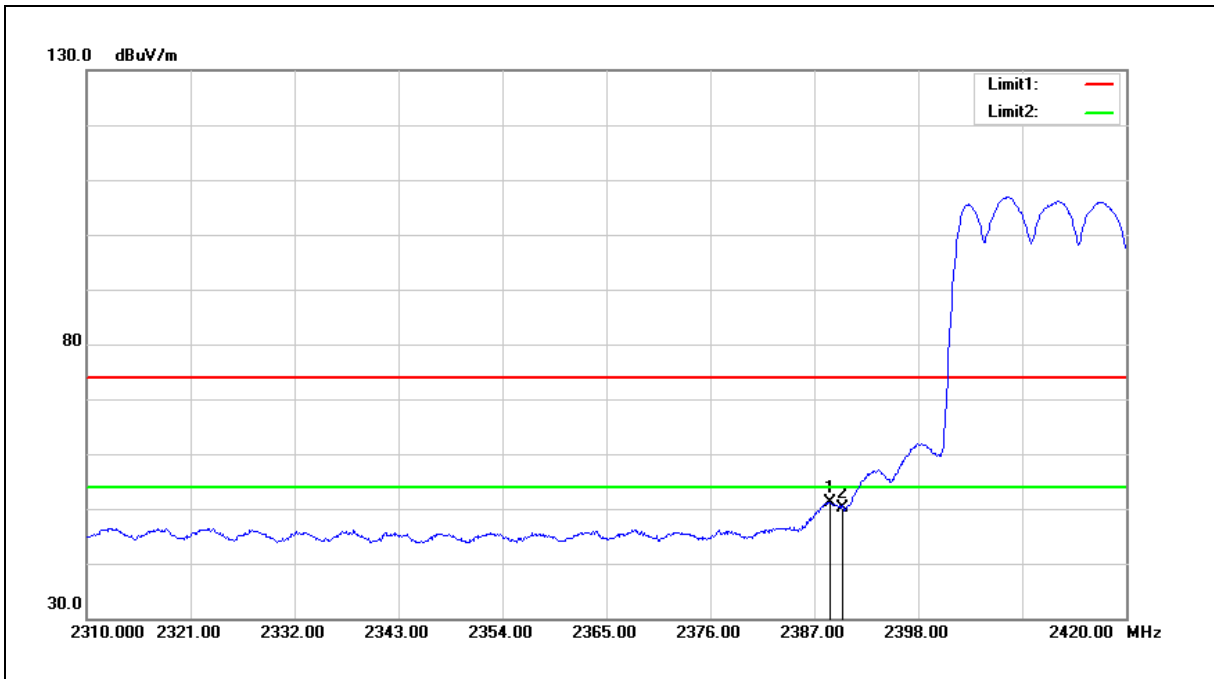
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.990	47.05	-7.32	39.73	54.00	-14.27	AVG
2	2390.000	46.20	-7.30	38.90	54.00	-15.10	AVG

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:	2412 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



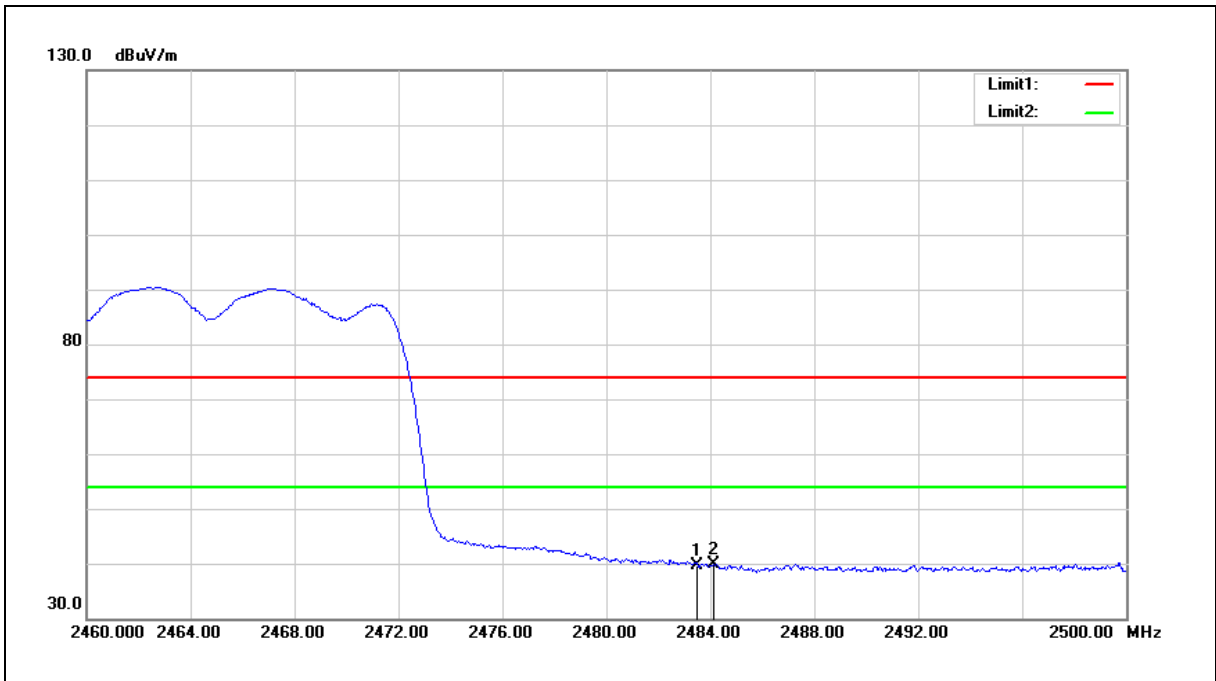
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.650	58.49	-7.31	51.18	54.00	-2.82	AVG
2	2390.000	57.32	-7.30	50.02	54.00	-3.98	AVG

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.

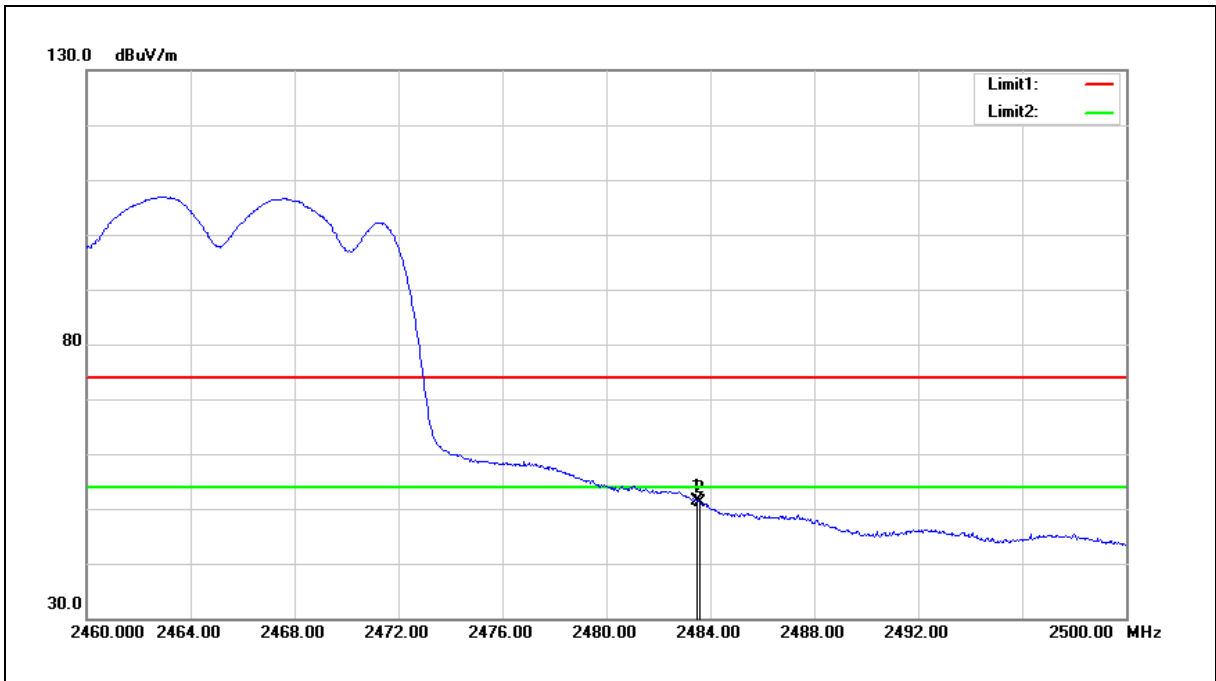
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	46.53	-6.94	39.59	54.00	-14.41	AVG
2	2484.120	46.88	-6.92	39.96	54.00	-14.04	AVG

- 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.

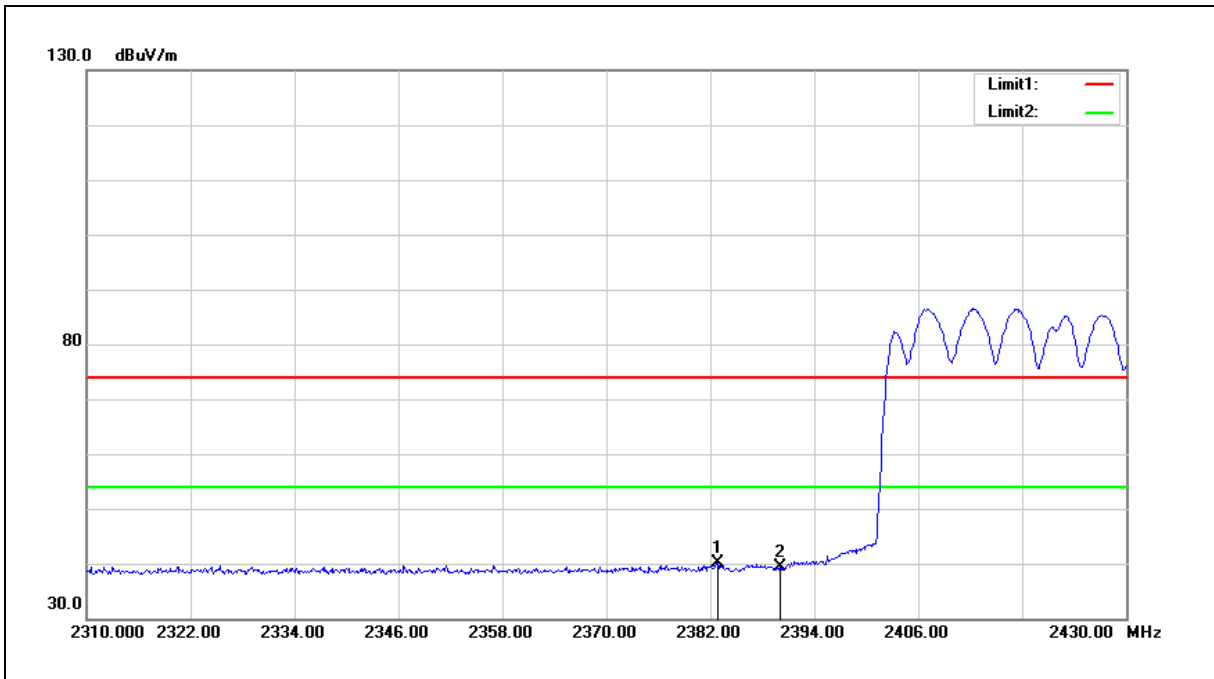
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2462 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	58.44	-6.94	51.50	54.00	-2.50	AVG
2	2483.600	58.02	-6.94	51.08	54.00	-2.92	AVG

- 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:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



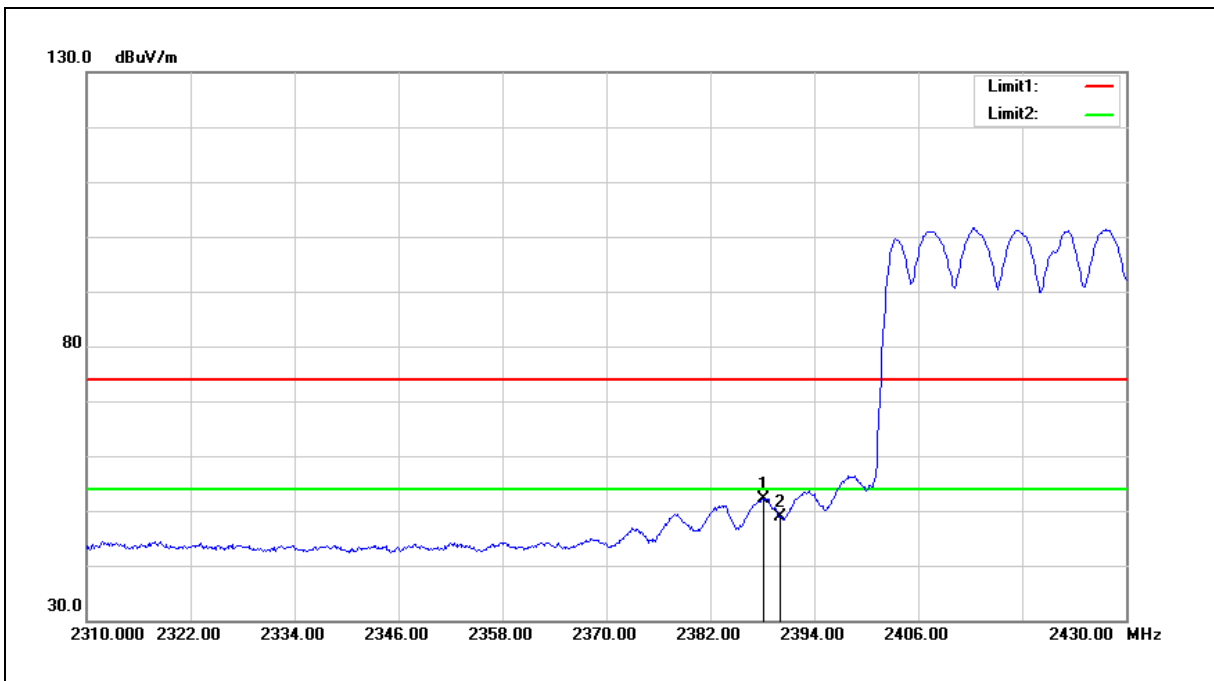
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2382.840	47.37	-7.34	40.03	54.00	-13.97	AVG
2	2390.000	46.61	-7.30	39.31	54.00	-14.69	AVG

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.

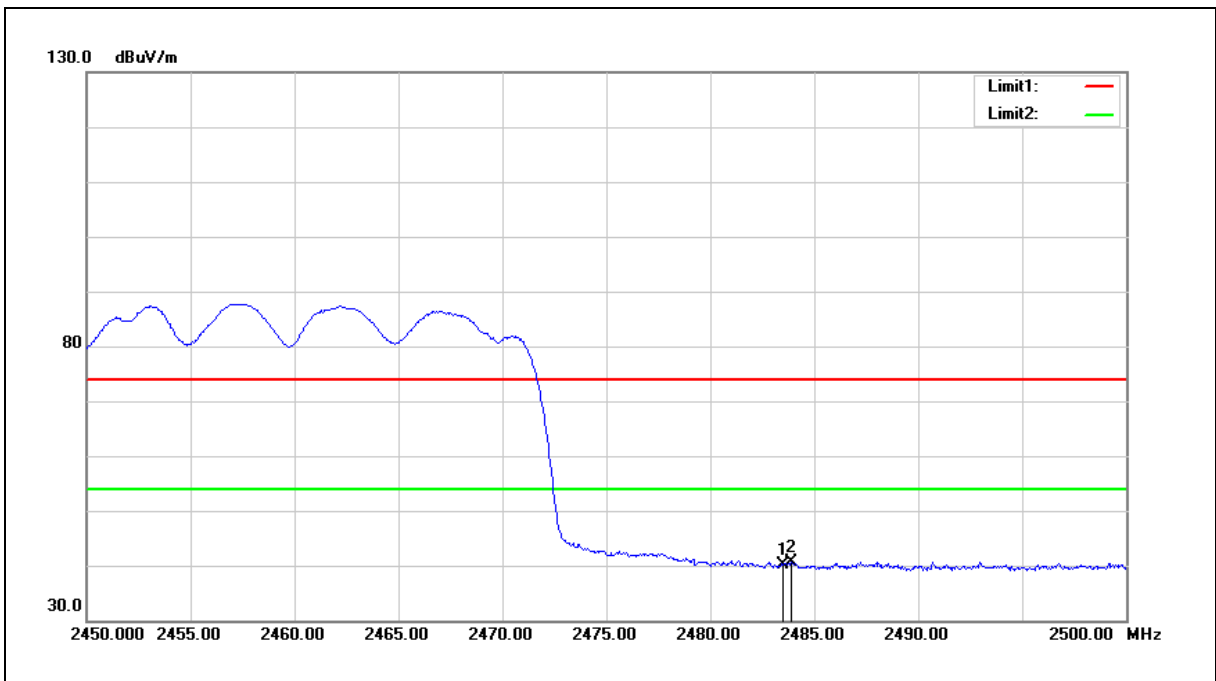
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2422 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.120	59.45	-7.32	52.13	54.00	-1.87	AVG
2	2390.000	56.29	-7.30	48.99	54.00	-5.01	AVG

- 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.

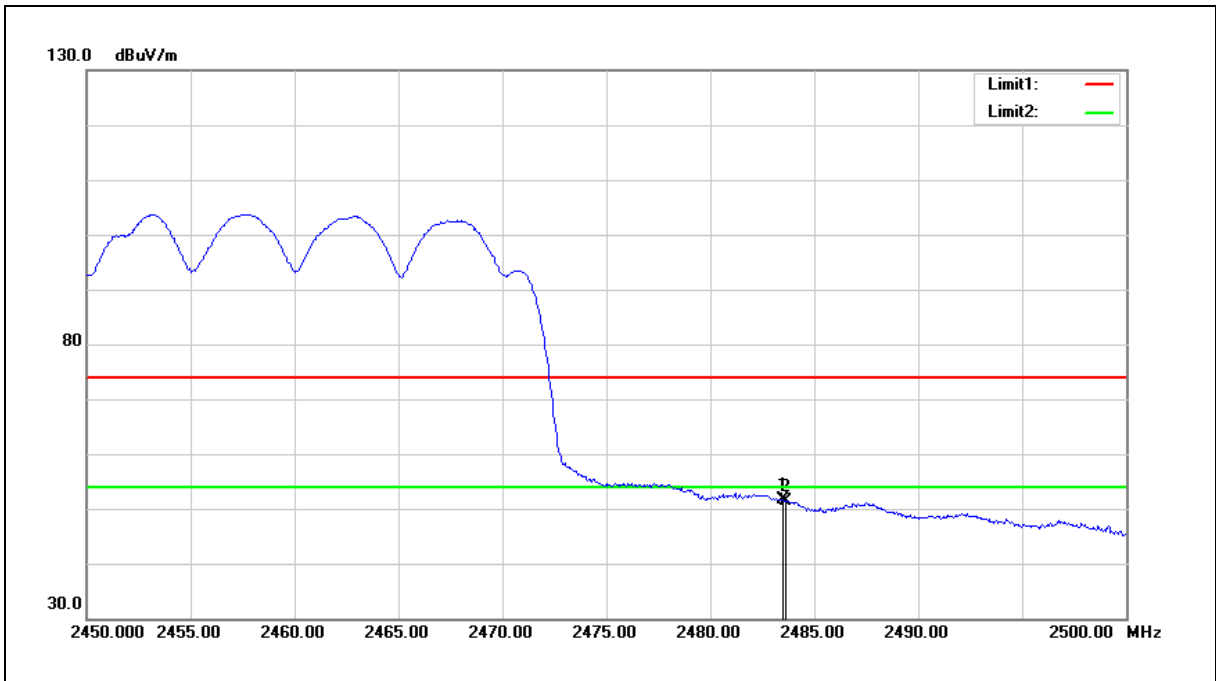
Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	46.99	-6.94	40.05	54.00	-13.95	AVG
2	2483.900	47.58	-6.94	40.64	54.00	-13.36	AVG

- 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:	2452 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	58.54	-6.94	51.60	54.00	-2.40	AVG
2	2483.650	58.41	-6.94	51.47	54.00	-2.53	AVG

- 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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