

RF Test Report

Applicant : Adtran
Product Type : Intellifi AP/Router
Trade Name : ADTRAN
Model Number : SE81ac
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Received Date : Nov. 06, 2019
Test Period : Nov. 13, 2019 ~ Jun. 08, 2020
Issued Date : Jun. 15, 2020

Issued by

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



Taiwan Accreditation Foundation accreditation number: 1330

Test Firm MRA designation number: TW0010

Note:

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- 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	Jun. 15, 2020	Initial Issue	Snow Wang

Verification of Compliance

Issued Date: Jun. 15, 2020

Applicant : Adtran
Product Type : Intellifi AP/Router
Trade Name : ADTRAN
Model Number : SE81ac
FCC ID : HDC-SE81AC
EUT Rated Voltage : DC 12 V, 1 A
Test Voltage : 120 Vac / 60 Hz
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 33465, Taiwan (R.O.C.)
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330
<http://www.atl-lab.com.tw/e-index.htm>

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

Approved By : Fly Lu
(Manager) (Fly Lu)



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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	-----

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

Decision Rule

- Uncertainty is not included.
- Uncertainty is included.



2 EUT Description

Applicant	Adtran 901 Explorer Boulevard, Huntsville, AL 35806-2807, United States			
Manufacturer	Adtran 901 Explorer Boulevard, Huntsville, AL 35806-2807, United States			
Product Type	Intellifi AP/Router			
Trade Name	ADTRAN			
Model Number	SE81ac			
FCC ID	HDC-SE81AC			
Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate 400 GI (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 173.4 Mbps
IEEE 802.11n 2.4 GHz 40 MHz	2422 ~ 2452	OFDM	40 MHz	Up to 400 Mbps
Antenna information	ANT	Model Number	Type	Max. Gain (dBi)
	ANT-0	5718A0399300	Metal PIFA Antenna	3.01
	ANT-1	5718A0400300	Metal PIFA Antenna	3.25
Antenna Delivery	See section 3.1			
Operate Temp. Range	0 ~ +40 °C			

Frequency Band	Max. RF Output Power (W)
IEEE 802.11b	0.254
IEEE 802.11g	0.220
IEEE 802.11n 2.4 GHz 20 MHz	0.220
IEEE 802.11n 2.4 GHz 40 MHz	0.127

Beamforming on

Frequency Band	Max. RF Output Power (W)
IEEE 802.11n 2.4 GHz 20 MHz	0.108
IEEE 802.11n 2.4 GHz 40 MHz	0.061

3 Test Methodology

3.1. Mode of Operation

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

Test Mode
Mode 1: Transmit mode
Mode 2: 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

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

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

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

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

Test Mode	Antenna Delivery	Data Rate (Mbps)	Test Channel
Mode 2	2TX / 2TX (CDD)	1	1, 6, 11
Mode 3	2TX / 2TX (CDD)	6	1, 6, 11
Mode 4	2TX / 2TX (MIMO/BF)	13	1, 6, 11
Mode 5	2TX / 2TX (MIMO/BF)	27	3, 6, 9



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	2412.0	10.000	10.000	1.000	0.000	0.010
Mode 3	2412.0	2.050	2.110	0.972	0.125	0.488
Mode 4	2412.0	5.000	5.040	0.992	0.035	0.010
Mode 5	2422.0	2.430	2.490	0.976	0.106	0.412

Beamforming on

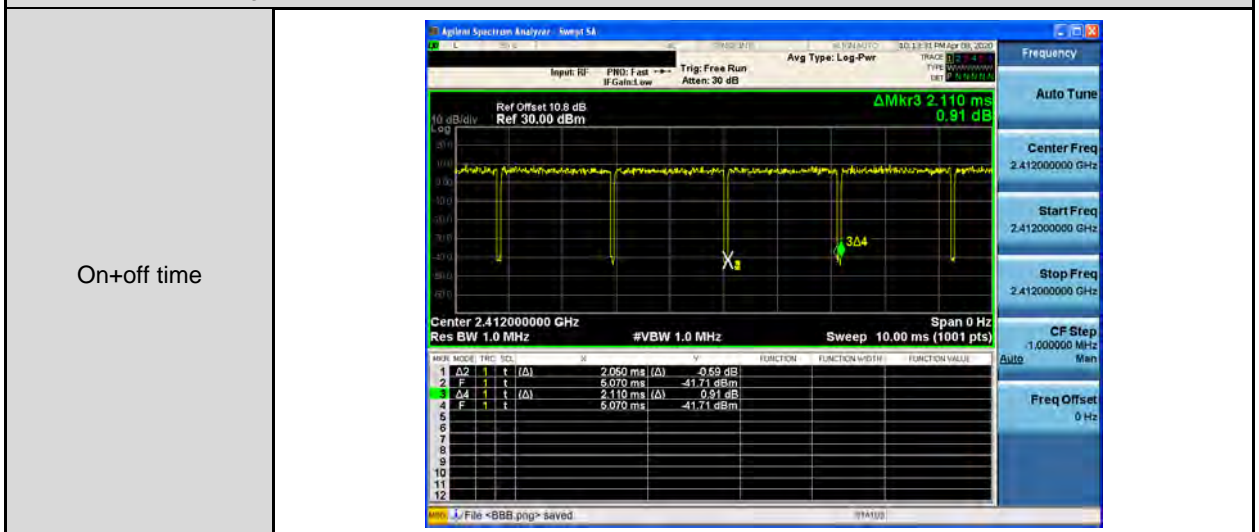
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 4	2412.0	5.000	5.040	0.992	0.035	0.010
Mode 5	2422.0	2.430	2.490	0.976	0.106	0.412

Duty Cycle Graphs

Mode 2: IEEE 802.11b Continuous TX mode

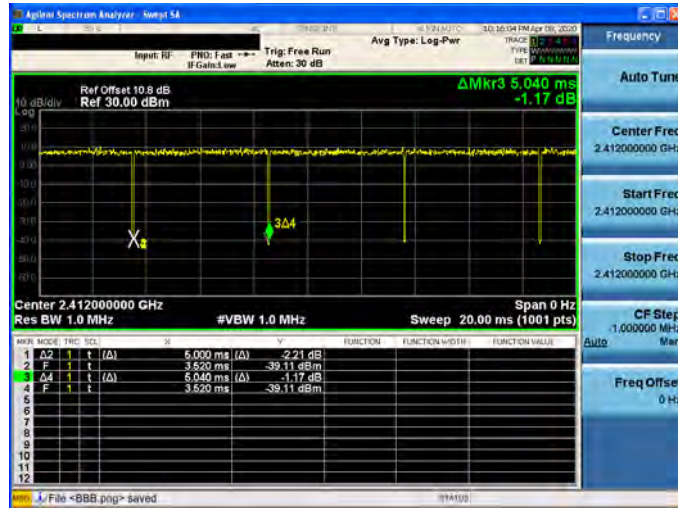


Mode 3: IEEE 802.11g Continuous TX mode



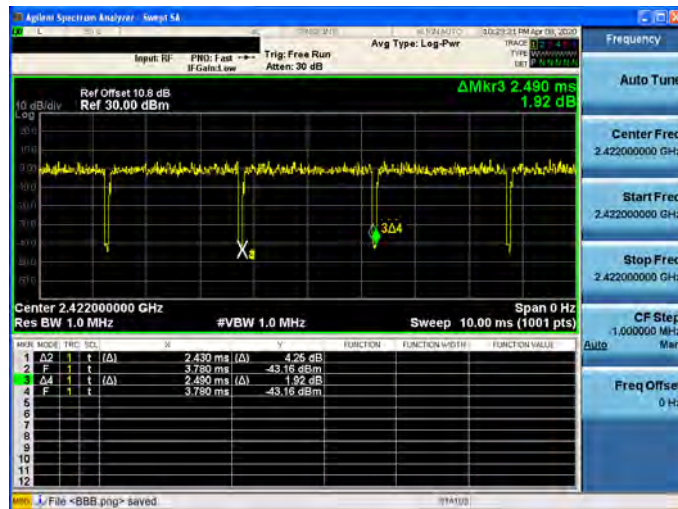
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode

On+off time



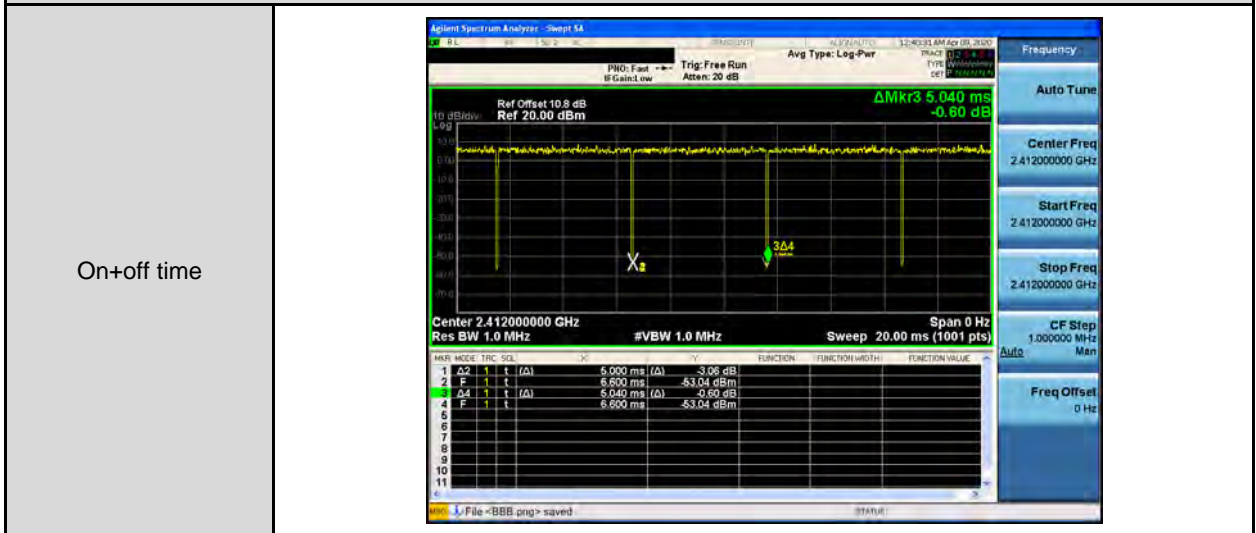
Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode

On+off time

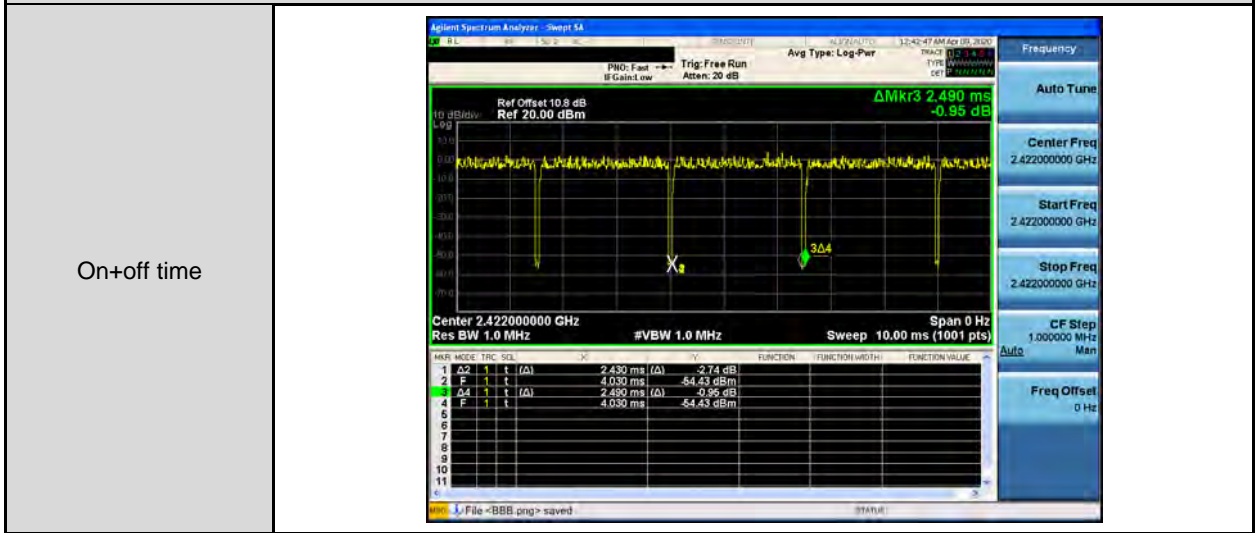


Beamforming on

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





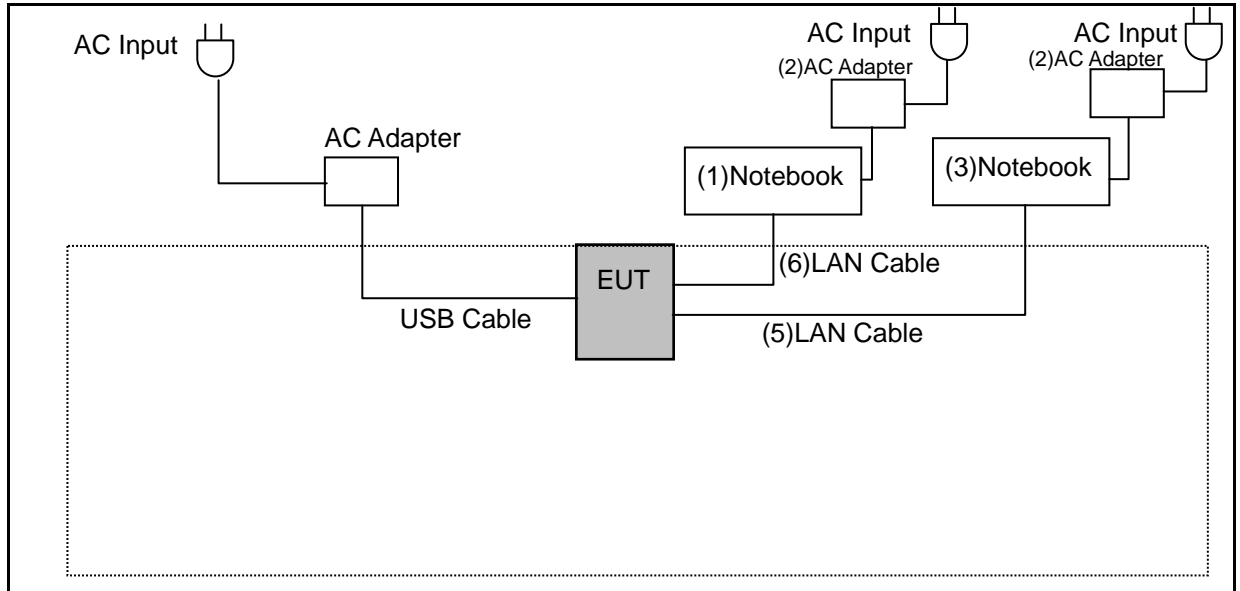
3.2. EUT Test Step

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

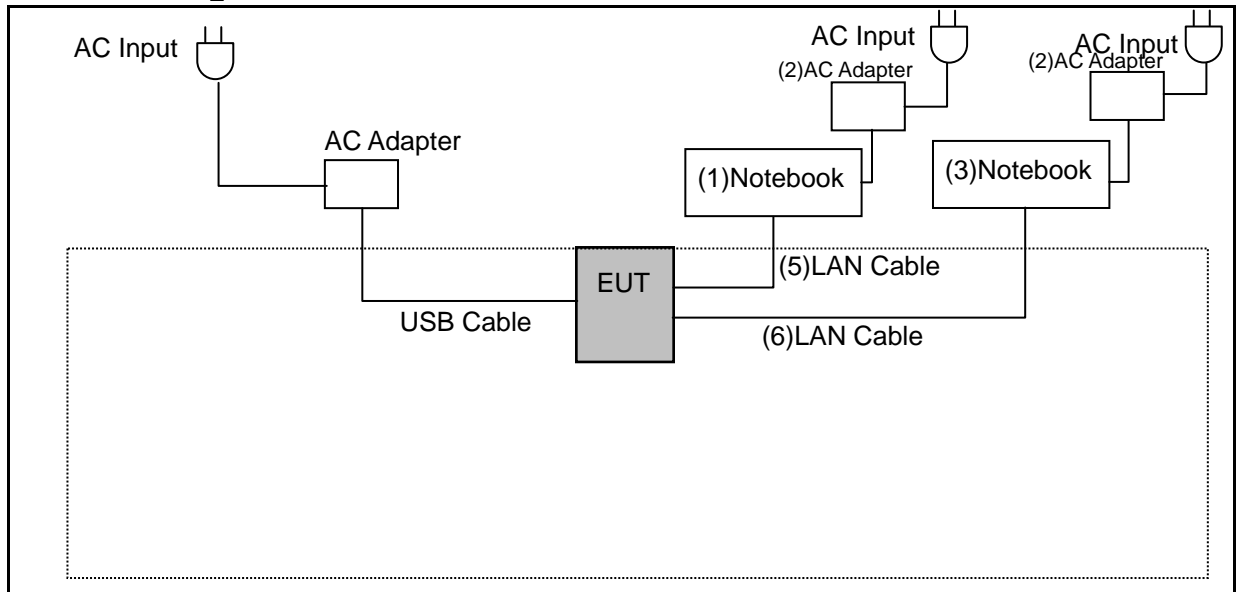
Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

3.3. Configuration of Test System Details

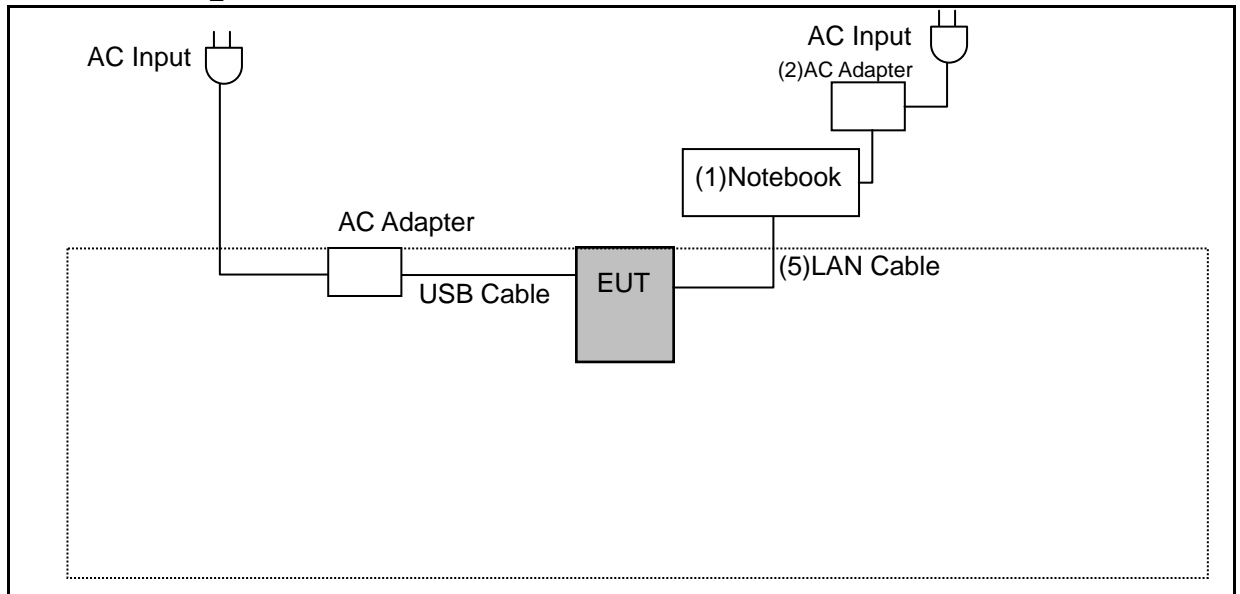
Conducted Emissions



Radiated Emission_ Below 1 GHz



Radiated Emission_ Above 1 GHz



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	DELL	LATITUDE E6440	5HZBD72	---
(2)	AC Adapter	DELL	HA65NM130	---	Non-Shielded, 0.8 m
(3)	Notebook	DELL	LATITUDE E5440	BRTQXY1	---
(4)	AC Adapter	DELL	HA65NM130	---	Non-Shielded, 0.8 m
(5)	LAN Cable	TATUNG	CAT5E	---	---
(6)	LAN Cable	HUAWEI	HAUWEI UL2464	---	---



3.4. Test Instruments

For Conducted

Test Period: Apr. 08 ~ Apr. 10, 2020

Testing Engineer: Paul Chiu

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/18/2019	1 year
Power Sensor	Anritsu	MA2411B	1126022	09/03/2019	1 year
Power Meter	Anritsu	ML2495A	1135009	09/03/2019	1 year

For Radiated Emissions

Test Period: Nov. 13, 2019 ~ Jun. 08, 2020

Testing Engineer: Andy Lu, Marc Yeh, Js Liao, Ricky Liu

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	01/14/2019	1 year
				01/13/2020	
Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02237	10/18/2019	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	01/14/2019	1 year
				01/15/2020	
Broadband Antenna	Schwarzbeck	VULB9168	416	10/23/2019	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/22/2019	1 year
Horn Antenna (18~40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	08/14/2019	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	03/29/2019	1 year
				03/27/2020	
RF Cable	EMCI	EMC104-N-N-6000	TE01-1	02/20/2019	1 year
				02/20/2020	
Microwave Cable	EMCI	EMC104-SM-SM-1 3000	170814	10/29/2019	1 year
Microwave Cable	EMCI	EMC102-KM-KM-1 4000	151001	02/20/2019	1 year
				02/20/2020	

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



For Conducted Emission
Test Period: Jun. 05, 2020
Testing Engineer: Louis Shen

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

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
Barometric pressure (mbar)	860-1060	990-1005

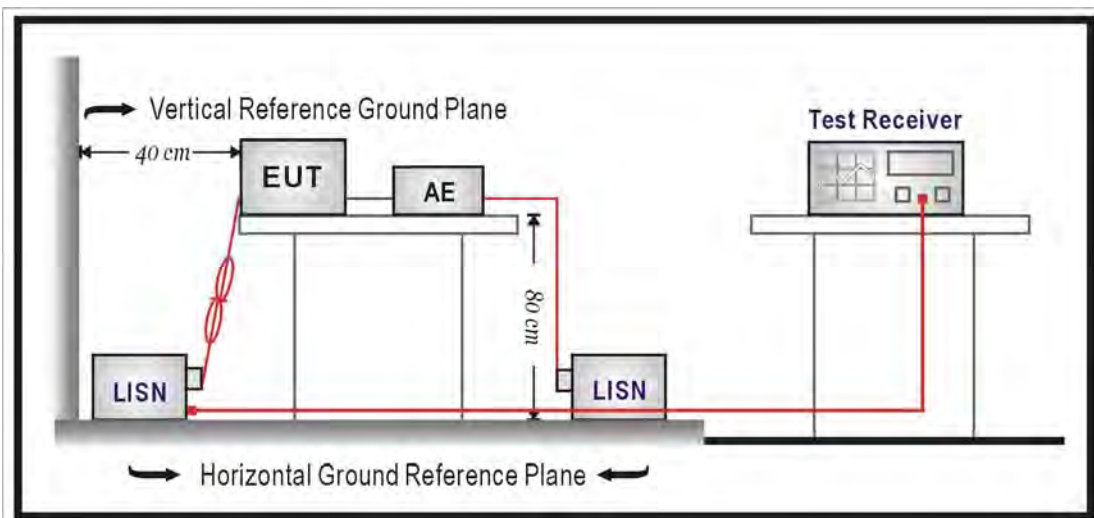
4 Measurement Procedure

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 50Ω ports of the LISN shall be resistively terminated into 50Ω 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

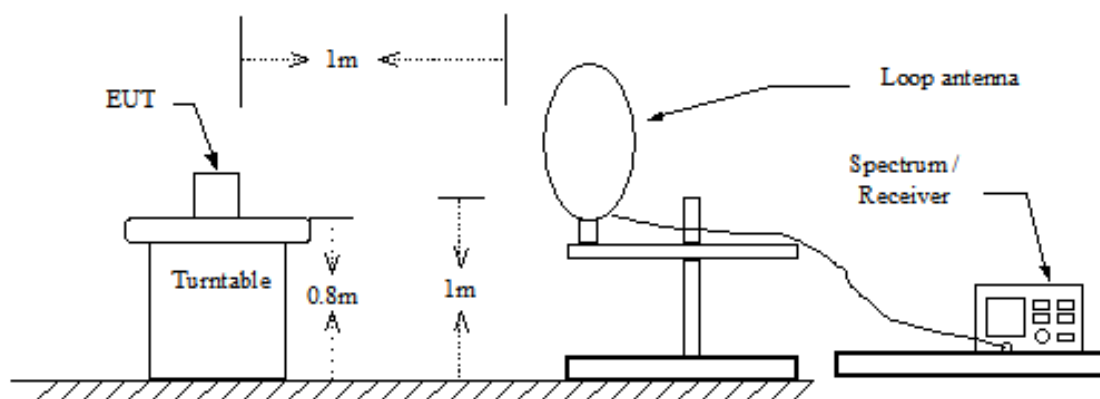
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

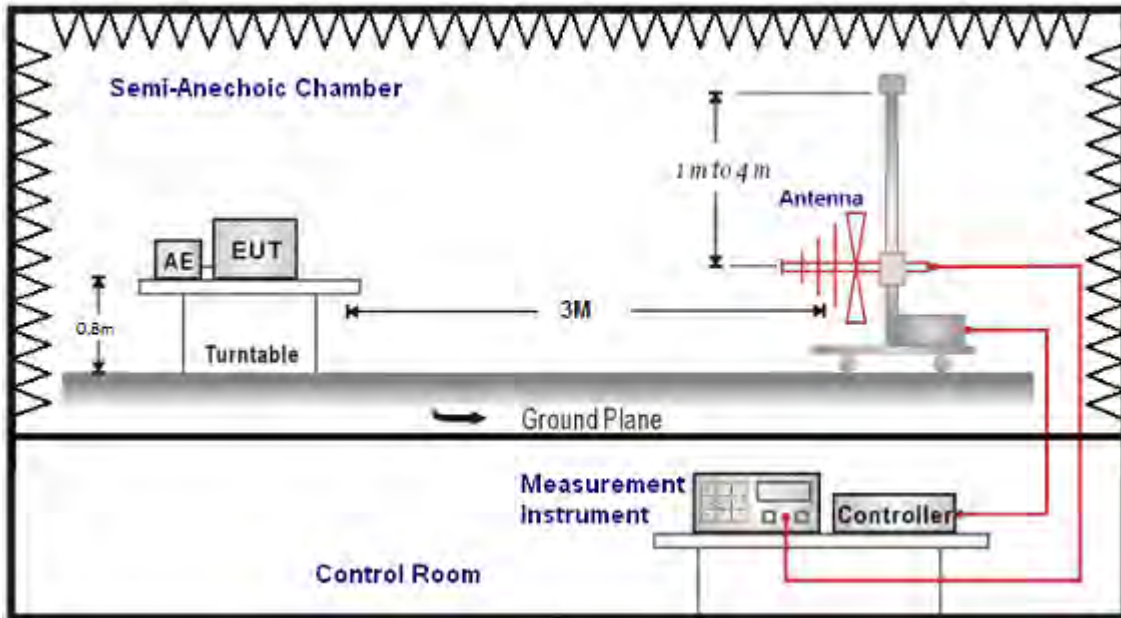
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

■ Setup

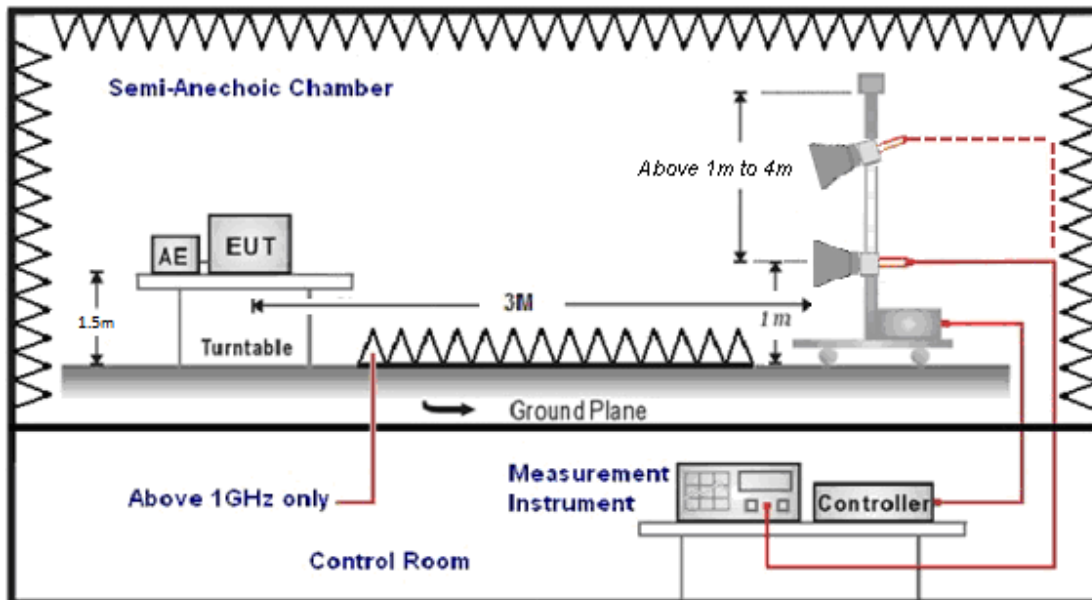
9 kHz ~ 30 MHz



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

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

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

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.

CDD :

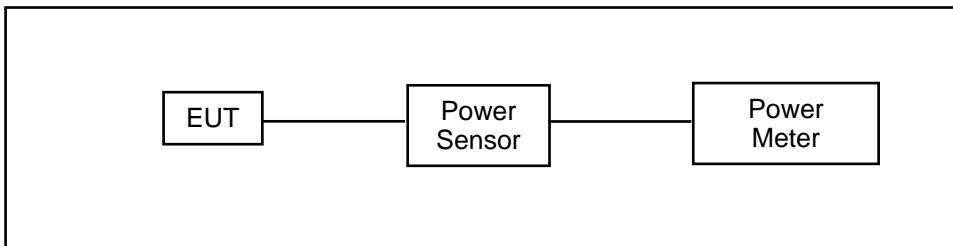
$$\text{Directional} = G_{\text{ANT}} = 10 \cdot \log\{[10^{(G1/10)} + 10^{(G2/10)} + \dots + 10^{(Gn/10)}] / \text{NANT}\} = 3.13 \text{ dBi} < 6 \text{ dBi}$$

MIMO / BF :

$$\text{Directional Gain} = 10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / \text{NANT}\} = 6.14 \text{ dBi} > 6 \text{ dBi}$$

* power limit shall be reduced = 30 – 0.14 = 29.86 dBm

■ **Test Setup**



■ **Test Procedure**

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

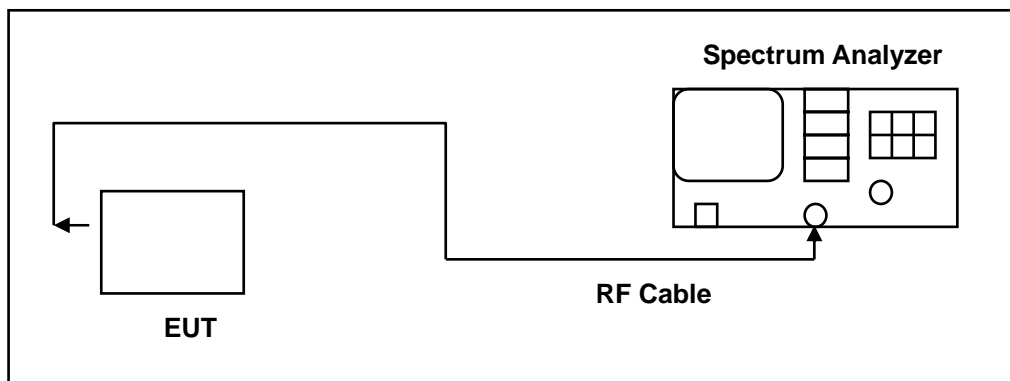
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

4.4. 6 dB RF Bandwidth Measurement

■ **Limit**

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

■ **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

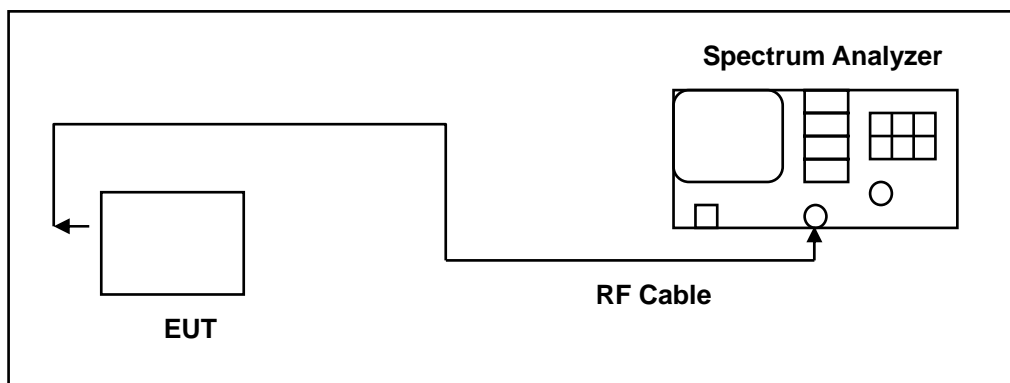
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

CDD/MIMO/BF :

Directional Gain = $10 \cdot \log\{[10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20}]^2 / NANT\}$ = 6.14 dBi > 6dBi

* power spectral density limit shall be reduced = $8 - 0.14 = 7.86$ dBm/3 kHz

■ 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.

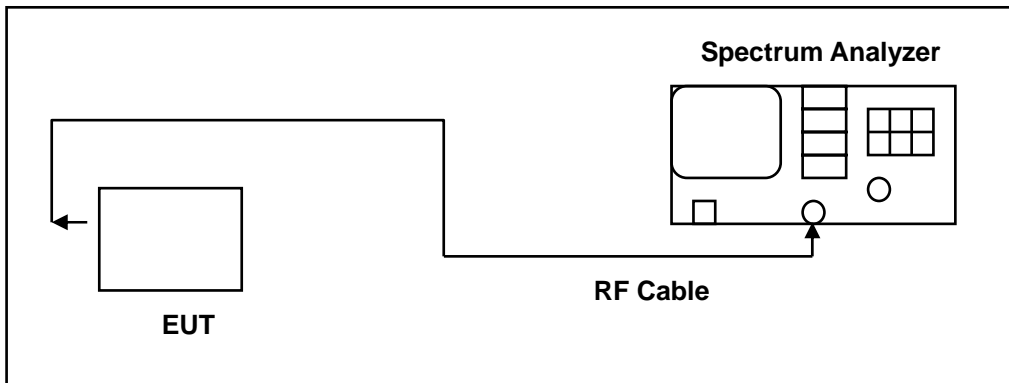
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
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.

For Maximum Conducted Output Power

$$\text{Directional Gain} = 10 \cdot \log\{[10^{(G1/10)} + 10^{(G2/10)} + \dots + 10^{(Gn/10)}] / NANT\}$$

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b	3.13
IEEE 802.11g	3.13
IEEE 802.11n 2.4 GHz 20 MHz	6.14
IEEE 802.11n 2.4 GHz 40 MHz	6.14

For Maximum Power Density

$$\text{Directional Gain} = 10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / NANT\}$$

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b	6.14
IEEE 802.11g	6.14
IEEE 802.11n 2.4 GHz 20 MHz	6.14
IEEE 802.11n 2.4 GHz 40 MHz	6.14



Beamforming on

For Maximum Conducted Output Power

$$\text{Directional Gain} = 10 \cdot \log\{[10^{(G1/10)} + 10^{(G2/10)} + \dots + 10^{(Gn/10)}] / NANT\}$$

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11n 2.4 GHz 20 MHz	6.14
IEEE 802.11n 2.4 GHz 40 MHz	6.14

For Maximum Power Density

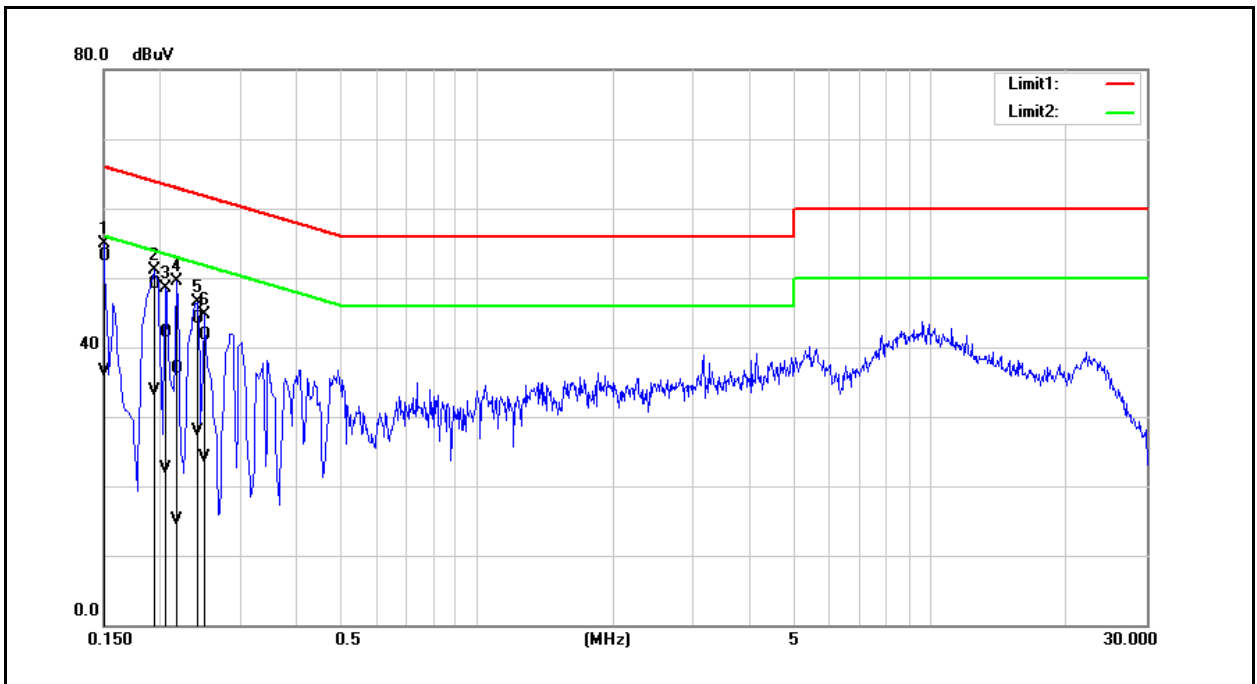
$$\text{Directional Gain} = 10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / NANT\}$$

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11n 2.4 GHz 20 MHz	6.14
IEEE 802.11n 2.4 GHz 40 MHz	6.14

5 Test Results

Annex A. Conducted Emission

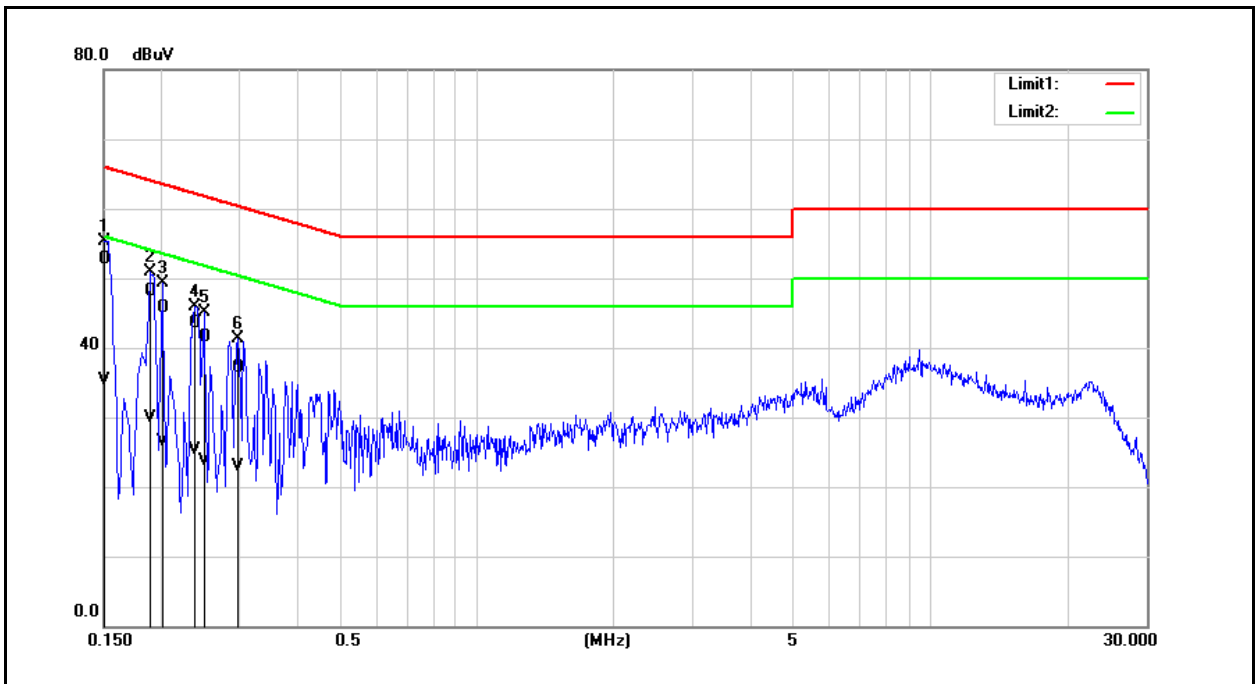
Standard:	FCC Part 15.247	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			



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	0.1500	43.37	26.72	9.70	53.07	36.42	66.00	56.00	-12.93	-19.58	Pass
2	0.1940	39.42	23.97	9.70	49.12	33.67	63.86	53.86	-14.74	-20.19	Pass
3	0.2060	32.36	12.89	9.70	42.06	22.59	63.37	53.37	-21.31	-30.78	Pass
4	0.2180	27.14	5.48	9.70	36.84	15.18	62.89	52.89	-26.05	-37.71	Pass
5	0.2420	34.45	18.24	9.70	44.15	27.94	62.03	52.03	-17.88	-24.09	Pass
6	0.2500	32.10	14.31	9.70	41.80	24.01	61.76	51.76	-19.96	-27.75	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	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	0.1500	43.01	25.57	9.69	52.70	35.26	66.00	56.00	-13.30	-20.74	Pass
2	0.1900	38.50	20.15	9.69	48.19	29.84	64.04	54.04	-15.85	-24.20	Pass
3	0.2020	35.94	16.89	9.69	45.63	26.58	63.53	53.53	-17.90	-26.95	Pass
4	0.2380	33.72	15.71	9.69	43.41	25.40	62.17	52.17	-18.76	-26.77	Pass
5	0.2500	31.84	14.11	9.69	41.53	23.80	61.76	51.76	-20.23	-27.96	Pass
6	0.2980	27.32	13.22	9.70	37.02	22.92	60.30	50.30	-23.28	-27.38	Pass

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

Annex B. Conducted Test Results

Maximum Conducted Output Power Measurement

ANT-0					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		
			Measurement Results		Limit
			dBm	W	dBm
Mode 2	2412	1 M	20.65	0.116	≤ 30
	2437		20.63	0.116	≤ 30
	2462		20.87	0.122	≤ 30
Mode 3	2412	6 M	16.37	0.043	≤ 30
	2437		20.25	0.106	≤ 30
	2462		16.60	0.046	≤ 30
Mode 4	2412	13 M	16.73	0.047	≤ 29.86
	2437		20.23	0.105	≤ 29.86
	2462		16.56	0.045	≤ 29.86
Mode 5	2422	27 M	15.80	0.038	≤ 29.86
	2437		17.82	0.061	≤ 29.86
	2452		15.26	0.034	≤ 29.86

ANT-1					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		
			Measurement Results		Limit
			dBm	W	dBm
Mode 2	2412	1 M	20.85	0.122	≤ 30
	2437		20.75	0.119	≤ 30
	2462		21.21	0.132	≤ 30
Mode 3	2412	6 M	16.51	0.045	≤ 30
	2437		20.56	0.114	≤ 30
	2462		16.92	0.049	≤ 30
Mode 4	2412	13 M	16.87	0.049	≤ 29.86
	2437		20.60	0.115	≤ 29.86
	2462		16.68	0.047	≤ 29.86
Mode 5	2422	27 M	16.06	0.040	≤ 29.86
	2437		18.20	0.066	≤ 29.86
	2452		15.70	0.037	≤ 29.86

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



ANT-0+1					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		
			Measurement Results		Limit
			dBm	W	dBm
Mode 2	2412	1 M	23.76	0.238	≤ 30
	2437		23.70	0.234	≤ 30
	2462		24.05	0.254	≤ 30
Mode 3	2412	6 M	19.45	0.088	≤ 30
	2437		23.42	0.220	≤ 30
	2462		19.77	0.095	≤ 30
Mode 4	2412	13 M	19.81	0.096	≤ 29.86
	2437		23.43	0.220	≤ 29.86
	2462		19.63	0.092	≤ 29.86
Mode 5	2422	27 M	18.94	0.078	≤ 29.86
	2437		21.02	0.127	≤ 29.86
	2452		18.50	0.071	≤ 29.86

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

Beamforming on

ANT-0					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		
			Measurement Results		Limit
			dBm	W	dBm
Mode 4	2412	13 M	13.65	0.023	≤ 29.86
	2437		17.20	0.052	≤ 29.86
	2462		13.48	0.022	≤ 29.86
Mode 5	2422	27 M	12.77	0.019	≤ 29.86
	2437		14.76	0.030	≤ 29.86
	2452		11.87	0.015	≤ 29.86

ANT-1					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		
			Measurement Results		Limit
			dBm	W	dBm
Mode 4	2412	13 M	13.80	0.024	≤ 29.86
	2437		17.48	0.056	≤ 29.86
	2462		13.60	0.023	≤ 29.86
Mode 5	2422	27 M	12.94	0.020	≤ 29.86
	2437		14.96	0.031	≤ 29.86
	2452		12.04	0.016	≤ 29.86

ANT-0+1					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		
			Measurement Results		Limit
			dBm	W	dBm
Mode 4	2412	13 M	16.74	0.047	≤ 29.86
	2437		20.35	0.108	≤ 29.86
	2462		16.55	0.045	≤ 29.86
Mode 5	2422	27 M	15.87	0.039	≤ 29.86
	2437		17.87	0.061	≤ 29.86
	2452		14.97	0.031	≤ 29.86

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



6 dB RF Bandwidth Measurement

ANT-0			
Test Mode	Frequency (MHz)	Measurement (kHz)	Limit (kHz)
Mode 2	2412	8565	≥ 500
	2437	9056	≥ 500
	2462	8569	≥ 500
Mode 3	2412	16390	≥ 500
	2437	16370	≥ 500
	2462	16370	≥ 500
Mode 4	2412	17600	≥ 500
	2437	17600	≥ 500
	2462	17600	≥ 500
Mode 5	2422	35520	≥ 500
	2437	35230	≥ 500
	2452	35240	≥ 500

ANT-1			
Test Mode	Frequency (MHz)	Measurement (kHz)	Limit (kHz)
Mode 2	2412	9068	≥ 500
	2437	8575	≥ 500
	2462	9019	≥ 500
Mode 3	2412	16400	≥ 500
	2437	16380	≥ 500
	2462	16410	≥ 500
Mode 4	2412	17610	≥ 500
	2437	17600	≥ 500
	2462	17610	≥ 500
Mode 5	2422	35240	≥ 500
	2437	35240	≥ 500
	2452	35240	≥ 500






Beamforming on

ANT-0			
Test Mode	Frequency (MHz)	Measurement (kHz)	Limit (kHz)
Mode 4	2412	17610	≥ 500
	2437	17610	≥ 500
	2462	17610	≥ 500
Mode 5	2422	35240	≥ 500
	2437	35240	≥ 500
	2452	35240	≥ 500

ANT-1			
Test Mode	Frequency (MHz)	Measurement (kHz)	Limit (kHz)
Mode 4	2412	17620	≥ 500
	2437	17620	≥ 500
	2462	17620	≥ 500
Mode 5	2422	35260	≥ 500
	2437	35250	≥ 500
	2452	35250	≥ 500

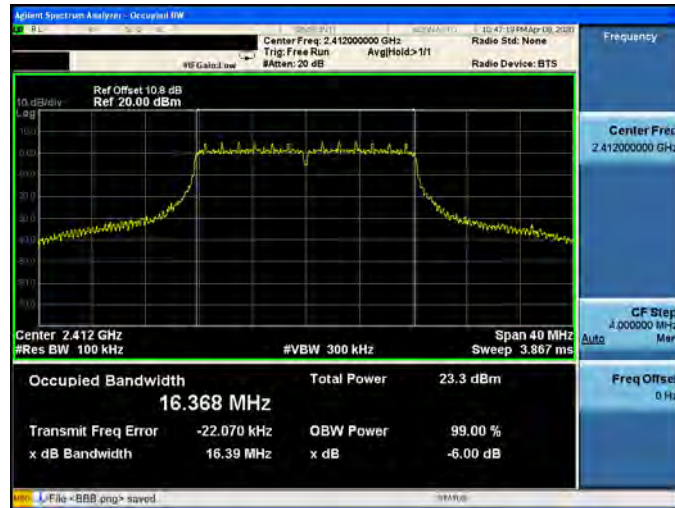
■ Test Graphs

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

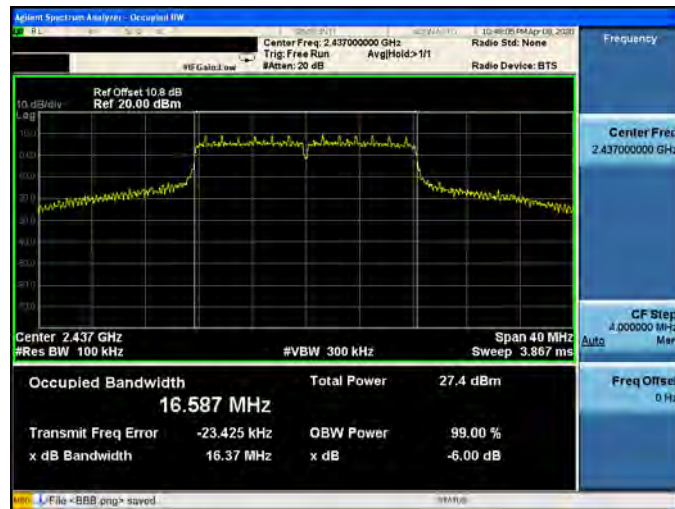
<p>2412 MHz</p>	 <p>Center Freq: 2.41200000 GHz</p> <p>Occupied Bandwidth: 13.340 MHz</p> <p>Total Power: 28.0 dBm</p> <p>Transmit Freq Error: -25.711 kHz</p> <p>OBW Power: 99.00 %</p>
<p>2437 MHz</p>	 <p>Center Freq: 2.43700000 GHz</p> <p>Occupied Bandwidth: 13.340 MHz</p> <p>Total Power: 28.1 dBm</p> <p>Transmit Freq Error: -32.598 kHz</p> <p>OBW Power: 99.00 %</p>
<p>2462 MHz</p>	 <p>Center Freq: 2.46200000 GHz</p> <p>Occupied Bandwidth: 13.446 MHz</p> <p>Total Power: 28.3 dBm</p> <p>Transmit Freq Error: -21.059 kHz</p> <p>OBW Power: 99.00 %</p>

Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

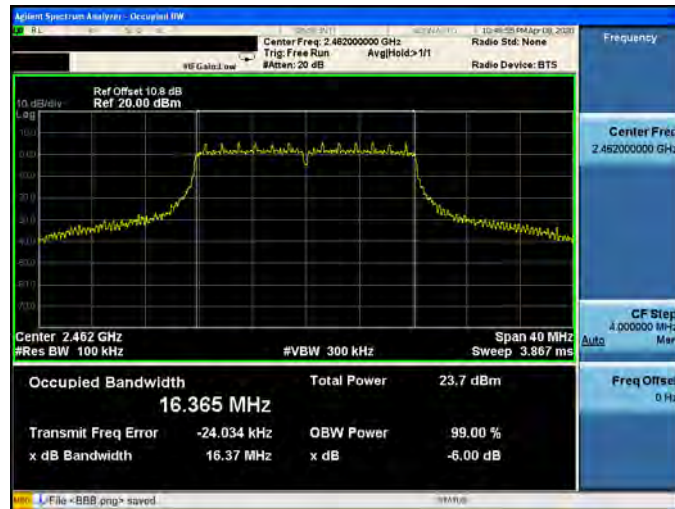
2412 MHz



2437 MHz



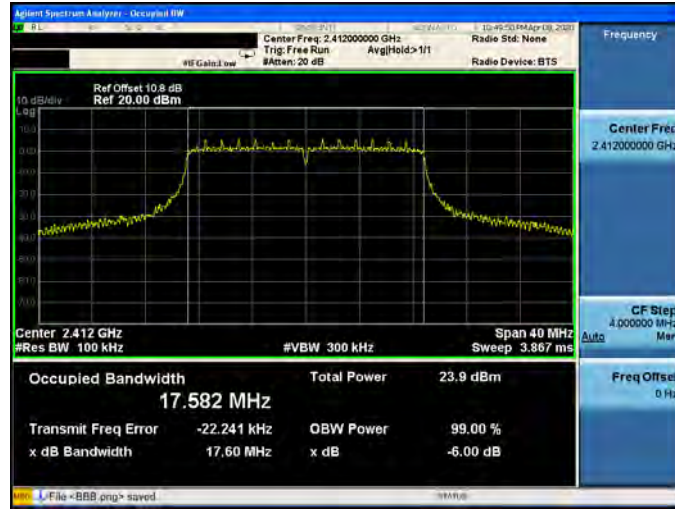
2462 MHz



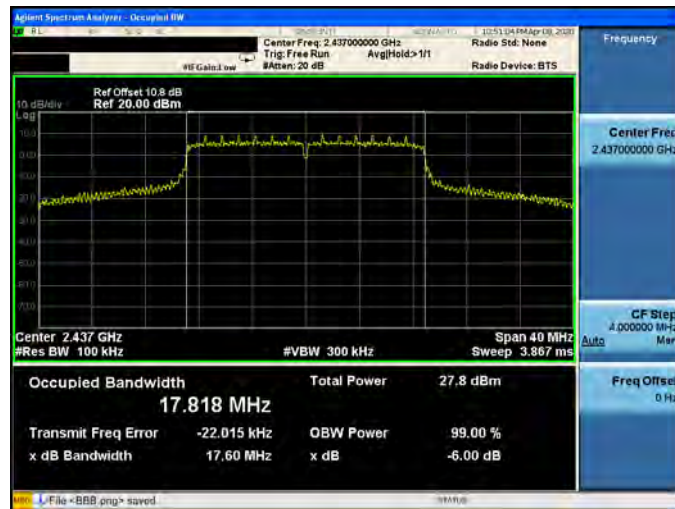


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

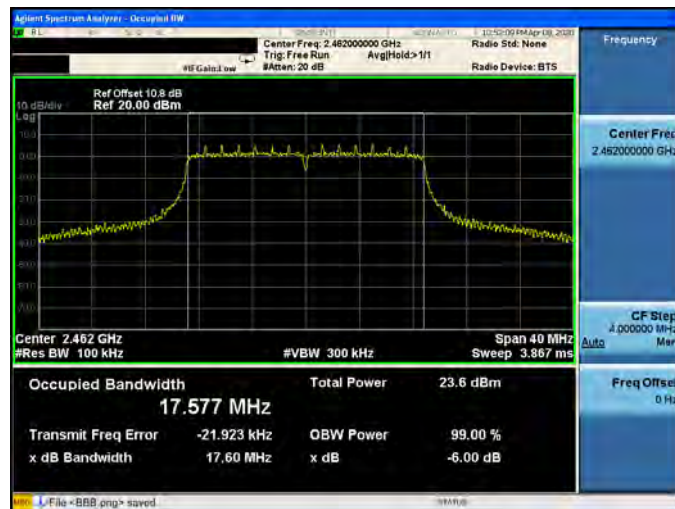
2412 MHz



2437 MHz



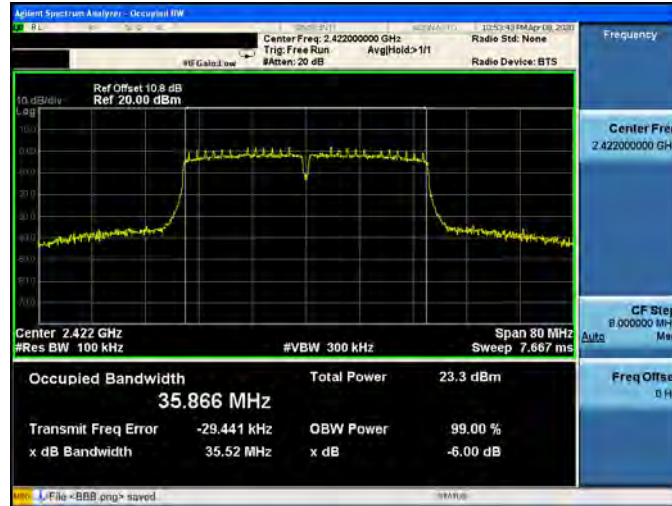
2462 MHz





Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

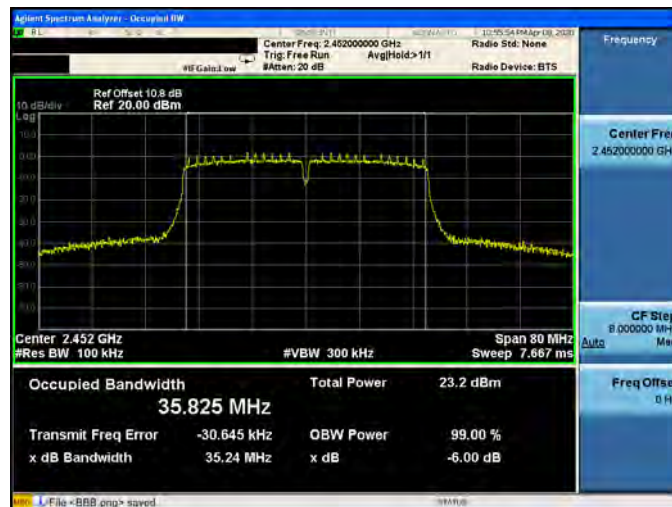
2422 MHz



2437 MHz



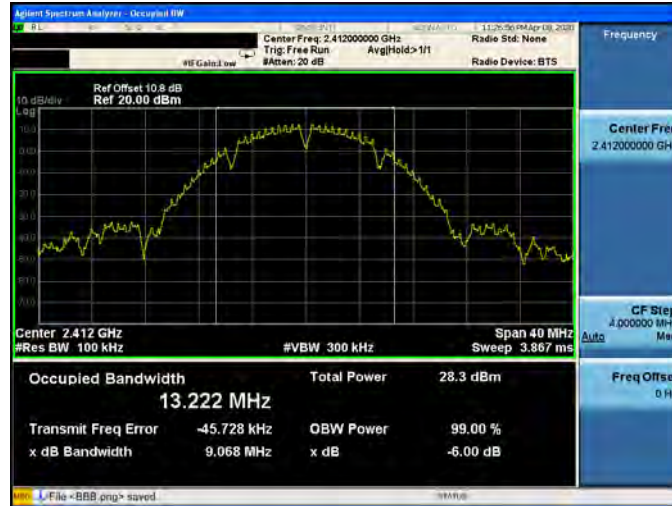
2452 MHz





Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

2412 MHz



2437 MHz



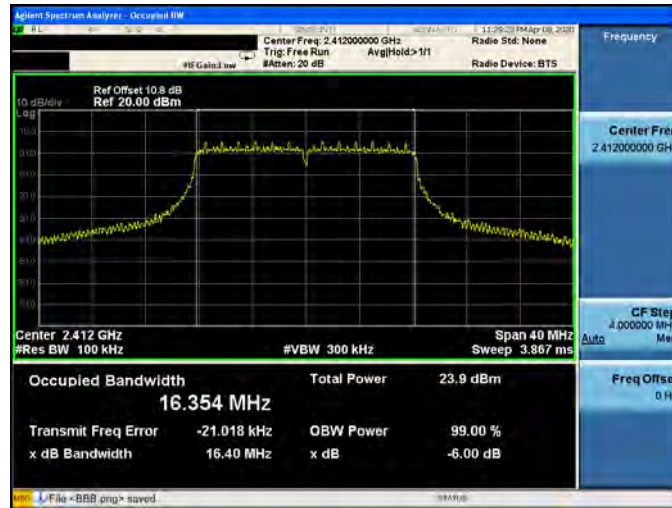
2462 MHz





Mode 3: IEEE 802.11g Continuous TX mode_ANT-1

2412 MHz



2437 MHz



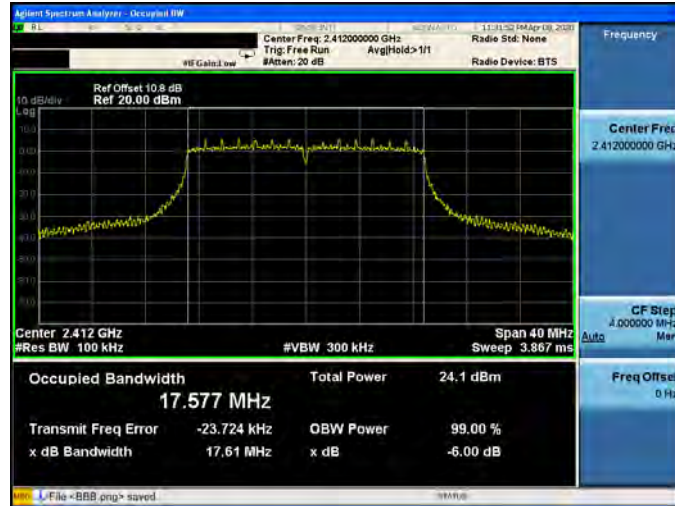
2462 MHz



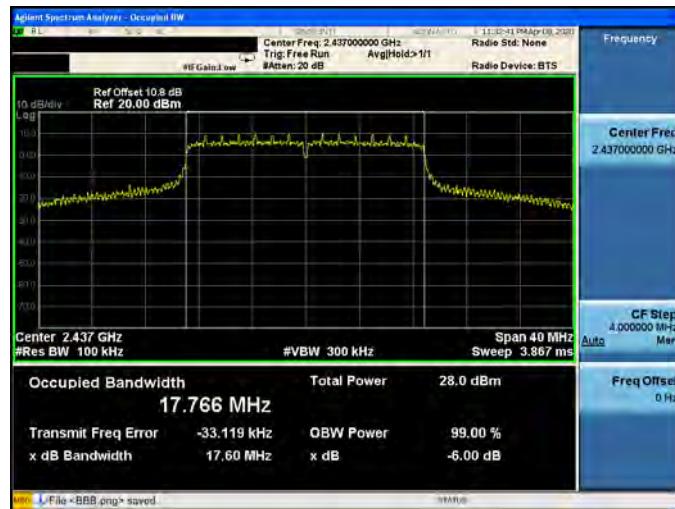


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

2412 MHz



2437 MHz



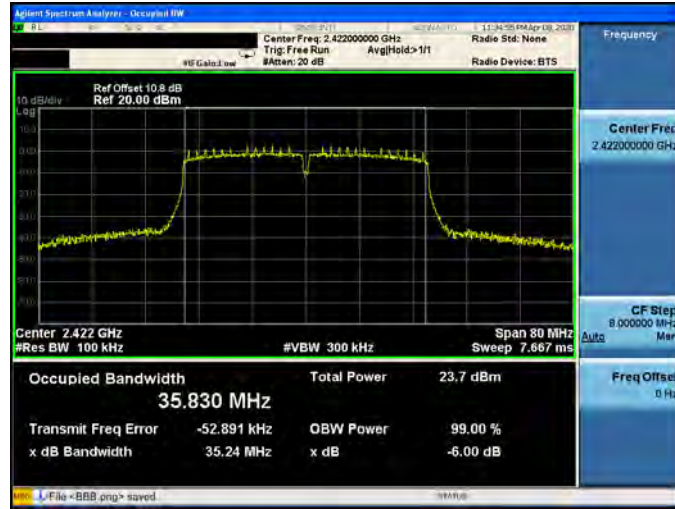
2462 MHz



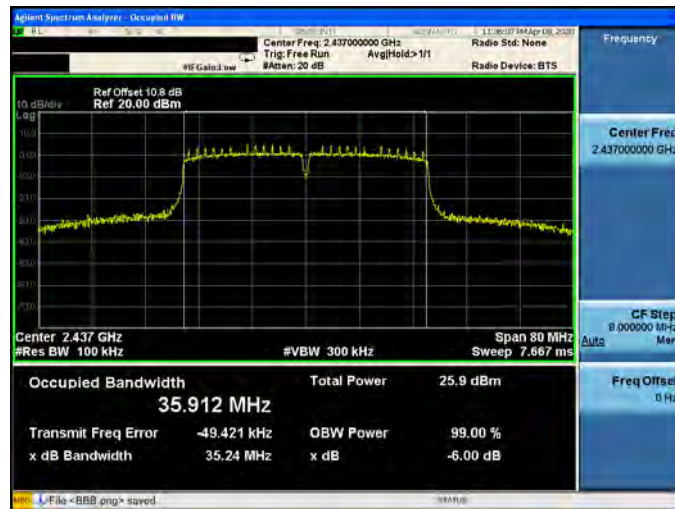


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

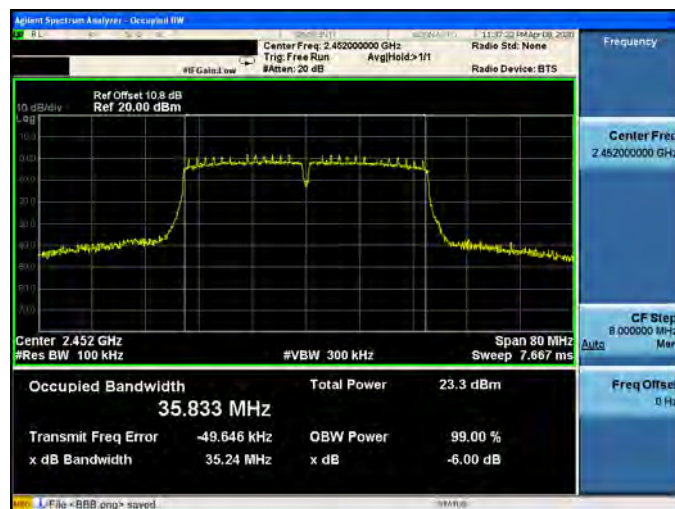
2422 MHz



2437 MHz



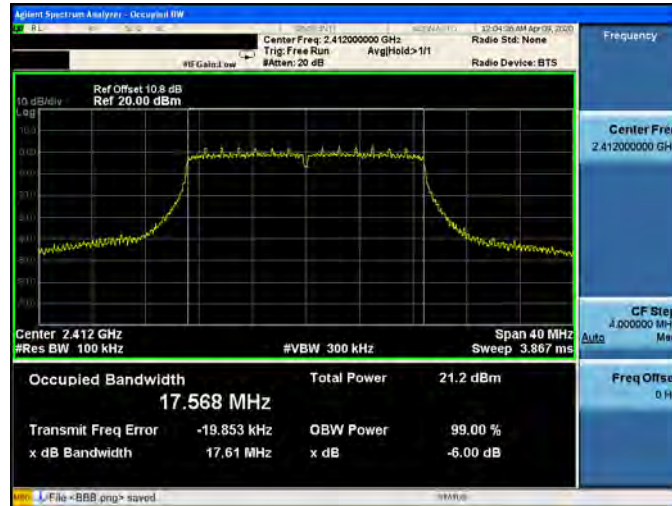
2452 MHz



Beamforming on

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

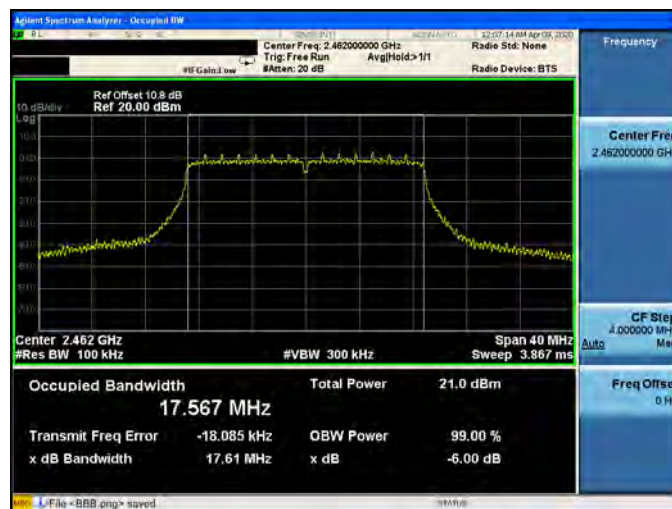
2412 MHz



2437 MHz



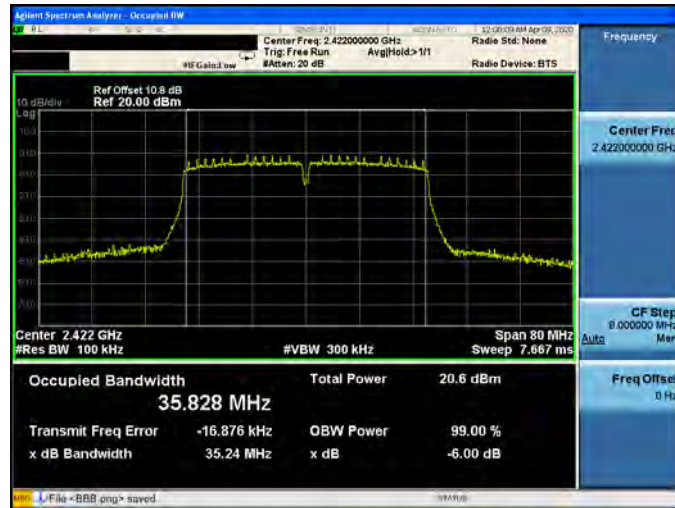
2462 MHz





Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

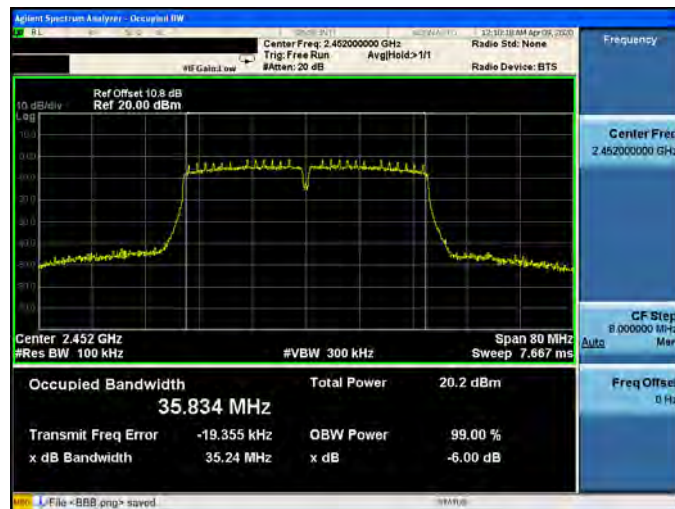
2422 MHz



2437 MHz



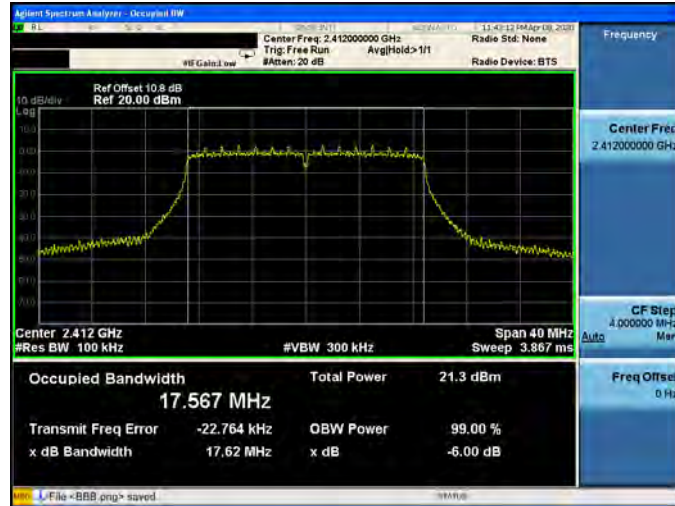
2452 MHz



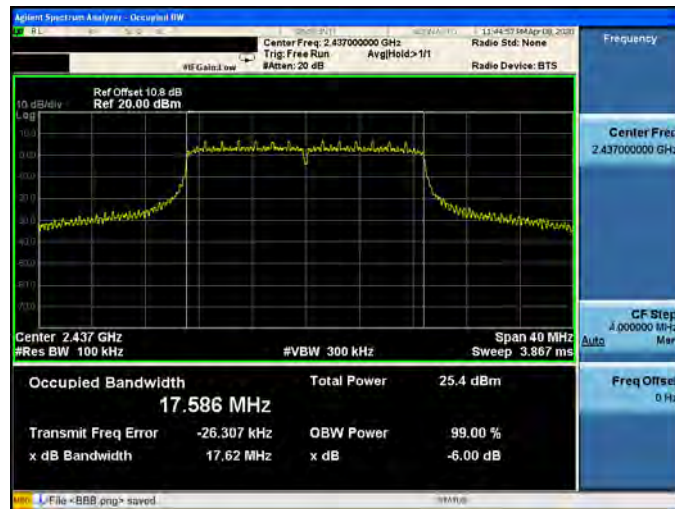


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

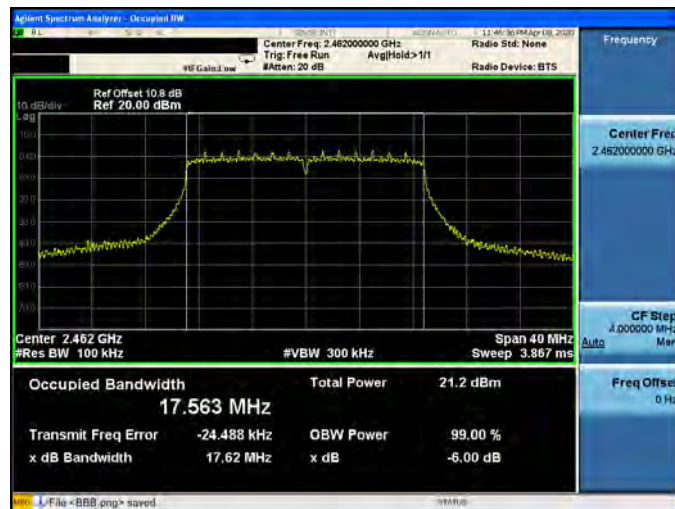
2412 MHz



2437 MHz

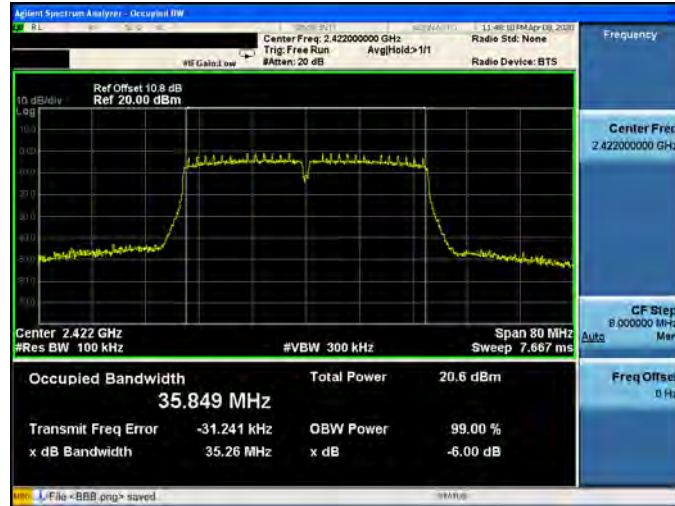


2462 MHz

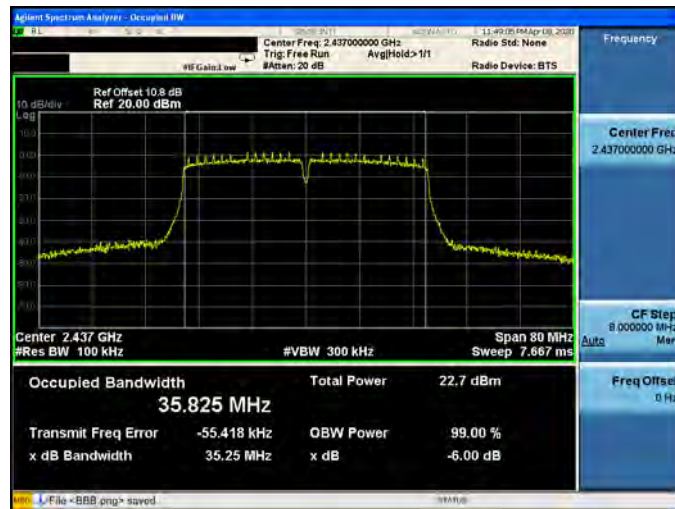


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

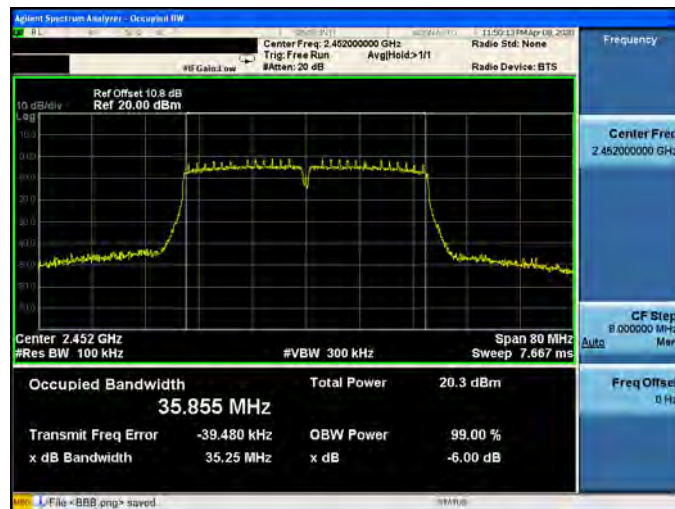
2422 MHz



2437 MHz



2452 MHz





Maximum Power Spectral Density Measurement

ANT-0			
Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)	Limit (dBm/ 3 kHz)
Mode 2	2412	-1.375	≤ 7.86
	2437	-0.937	≤ 7.86
	2462	-0.477	≤ 7.86
Mode 3	2412	-8.270	≤ 7.86
	2437	-5.025	≤ 7.86
	2462	-7.586	≤ 7.86
Mode 4	2412	-8.367	≤ 7.86
	2437	-5.615	≤ 7.86
	2462	-8.870	≤ 7.86
Mode 5	2422	-11.720	≤ 7.86
	2437	-9.831	≤ 7.86
	2452	-12.469	≤ 7.86

ANT-1			
Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)	Limit (dBm/ 3 kHz)
Mode 2	2412	-1.419	≤ 7.86
	2437	-0.781	≤ 7.86
	2462	0.100	≤ 7.86
Mode 3	2412	-8.041	≤ 7.86
	2437	-4.220	≤ 7.86
	2462	-8.186	≤ 7.86
Mode 4	2412	-8.318	≤ 7.86
	2437	-4.140	≤ 7.86
	2462	-8.649	≤ 7.86
Mode 5	2422	-11.783	≤ 7.86
	2437	-9.554	≤ 7.86
	2452	-11.546	≤ 7.86



ANT-0+1			
Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)	Limit (dBm/ 3 kHz)
Mode 2	2412	1.613	≤ 7.86
	2437	2.152	≤ 7.86
	2462	2.831	≤ 7.86
Mode 3	2412	-5.144	≤ 7.86
	2437	-1.594	≤ 7.86
	2462	-4.865	≤ 7.86
Mode 4	2412	-5.332	≤ 7.86
	2437	-1.805	≤ 7.86
	2462	-5.748	≤ 7.86
Mode 5	2422	-8.741	≤ 7.86
	2437	-6.680	≤ 7.86
	2452	-8.973	≤ 7.86



Beamforming on

ANT-0			
Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)	Limit (dBm/ 3 kHz)
Mode 4	2412	-11.707	≤ 7.86
	2437	-7.830	≤ 7.86
	2462	-11.875	≤ 7.86
Mode 5	2422	-14.226	≤ 7.86
	2437	-12.339	≤ 7.86
	2452	-15.466	≤ 7.86

ANT-1			
Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)	Limit (dBm/ 3 kHz)
Mode 4	2412	-11.545	≤ 7.86
	2437	-7.379	≤ 7.86
	2462	-10.733	≤ 7.86
Mode 5	2422	-14.358	≤ 7.86
	2437	-12.701	≤ 7.86
	2452	-15.222	≤ 7.86

ANT-0+1			
Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)	Limit (dBm/ 3 kHz)
Mode 4	2412	-8.615	≤ 7.86
	2437	-4.588	≤ 7.86
	2462	-8.256	≤ 7.86
Mode 5	2422	-11.281	≤ 7.86
	2437	-9.506	≤ 7.86
	2452	-12.332	≤ 7.86



Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

2412 MHz



2437 MHz



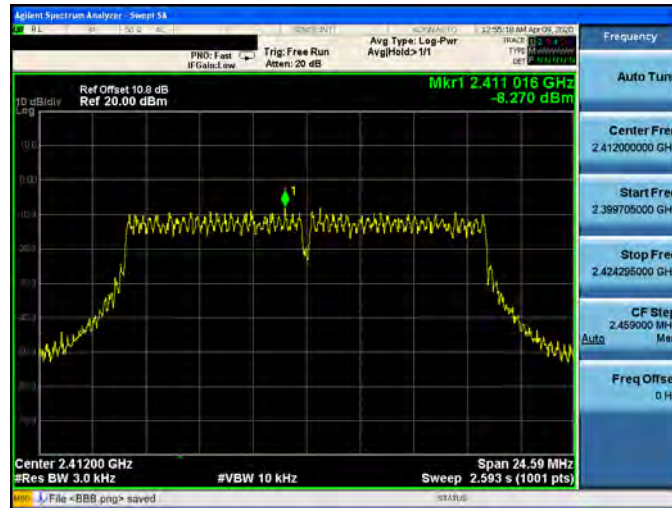
2462 MHz





Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

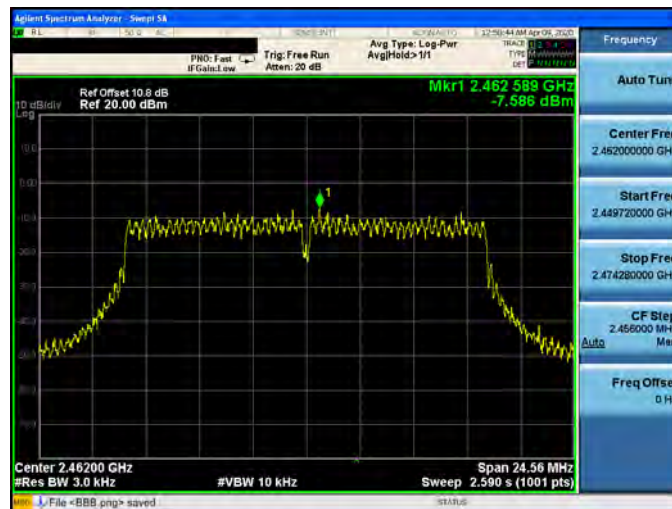
2412 MHz



2437 MHz



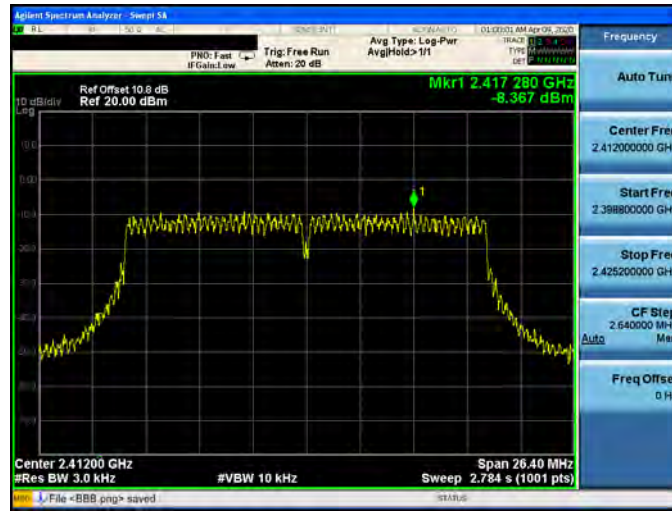
2462 MHz





Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

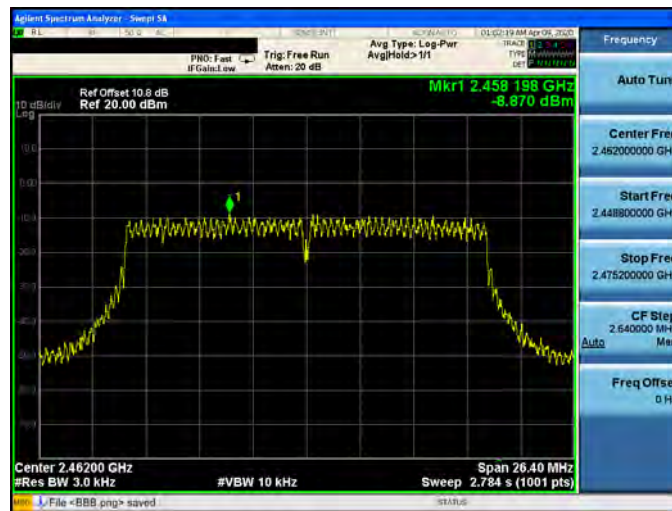
2412 MHz



2437 MHz



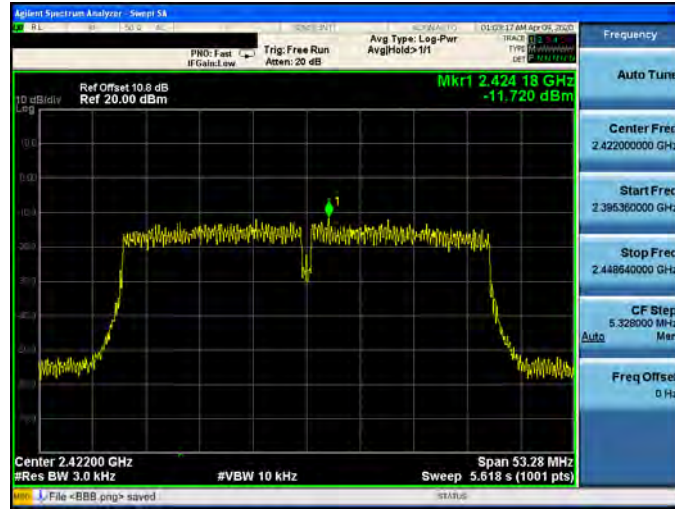
2462 MHz





Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

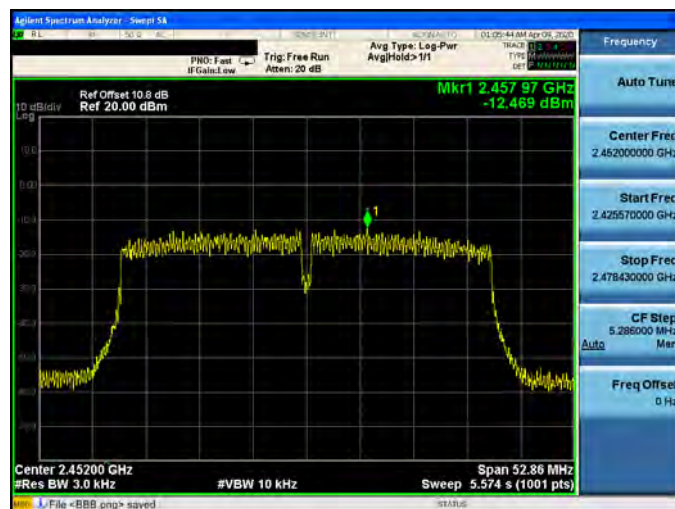
2422 MHz



2437 MHz



2452 MHz





Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

2412 MHz



2437 MHz



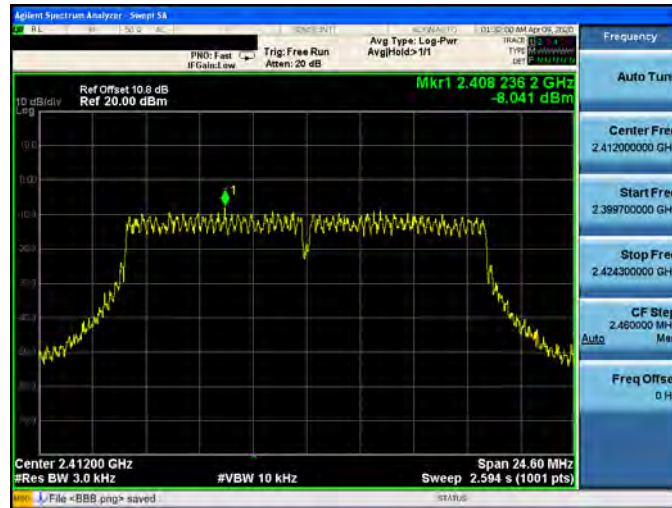
2462 MHz





Mode 3: IEEE 802.11g Continuous TX mode_ANT-1

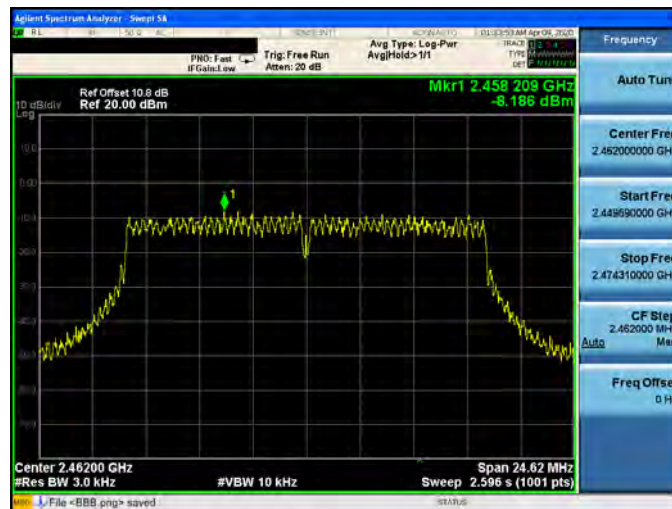
2412 MHz



2437 MHz



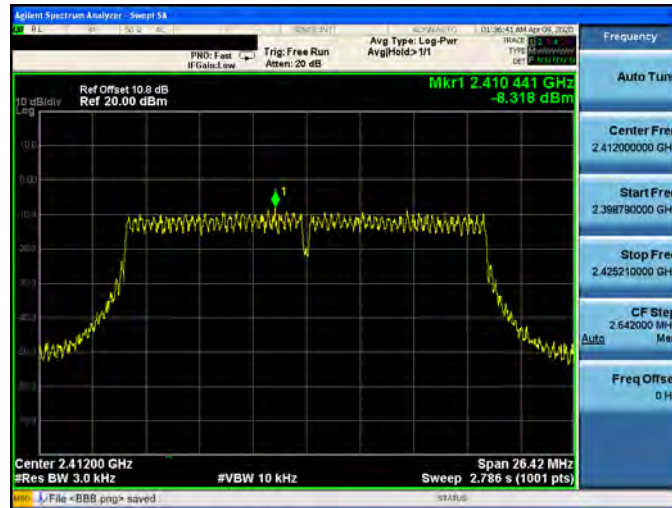
2462 MHz





Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

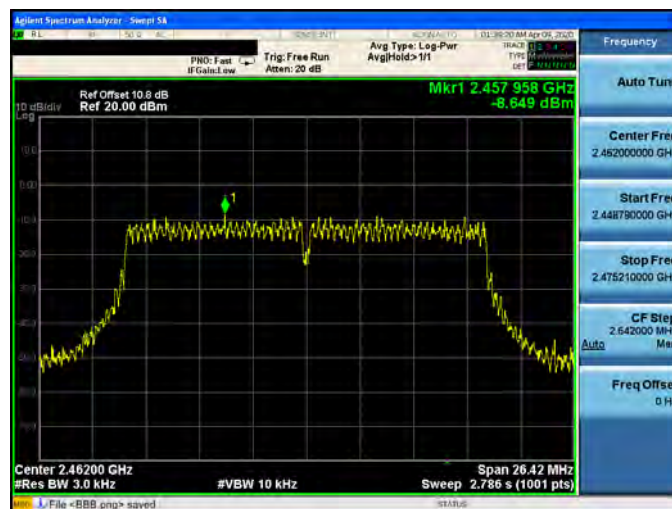
2412 MHz



2437 MHz



2462 MHz





Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

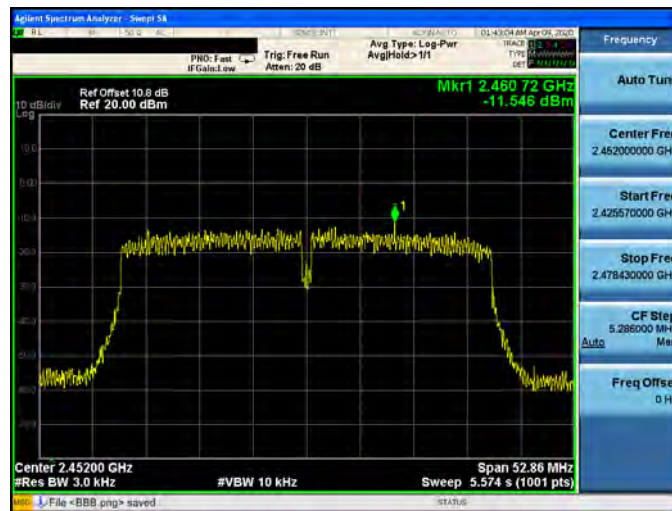
2422 MHz



2437 MHz

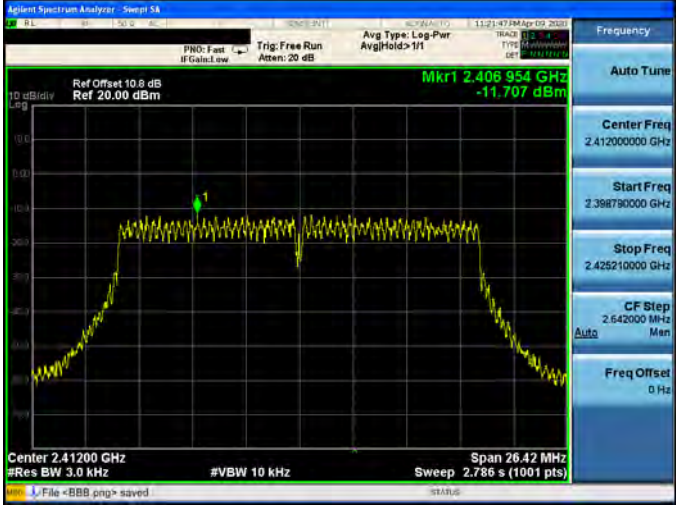
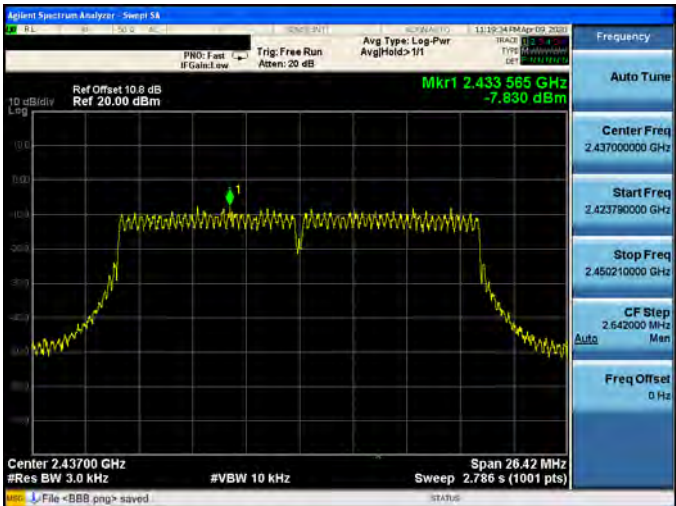
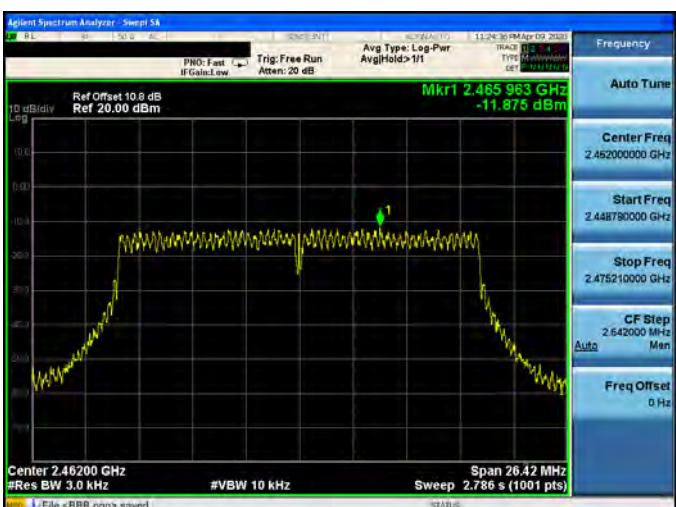


2452 MHz



Beamforming on

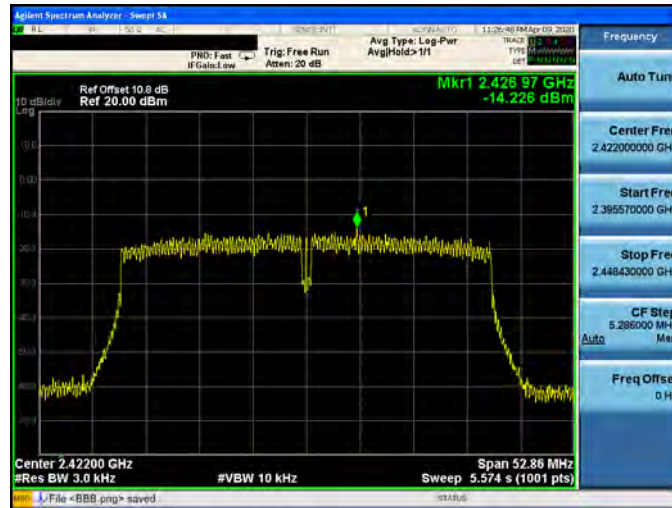
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

2412 MHz	
2437 MHz	
2462 MHz	

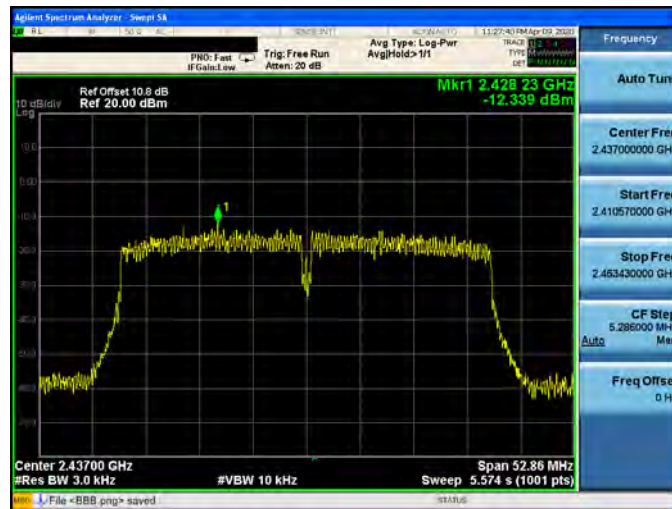


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

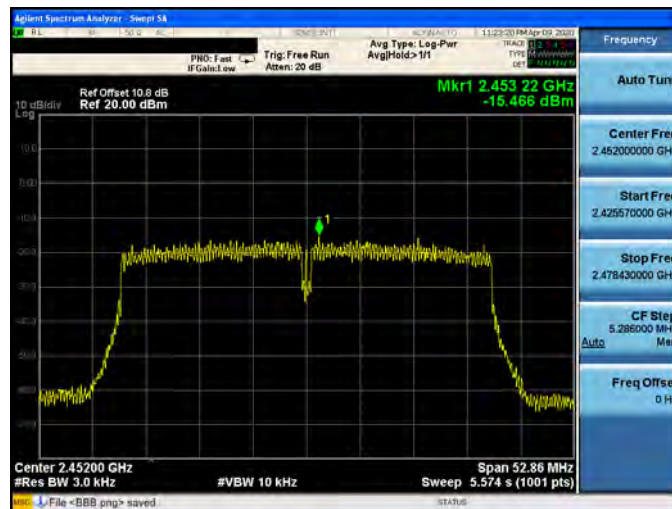
2422 MHz



2437 MHz



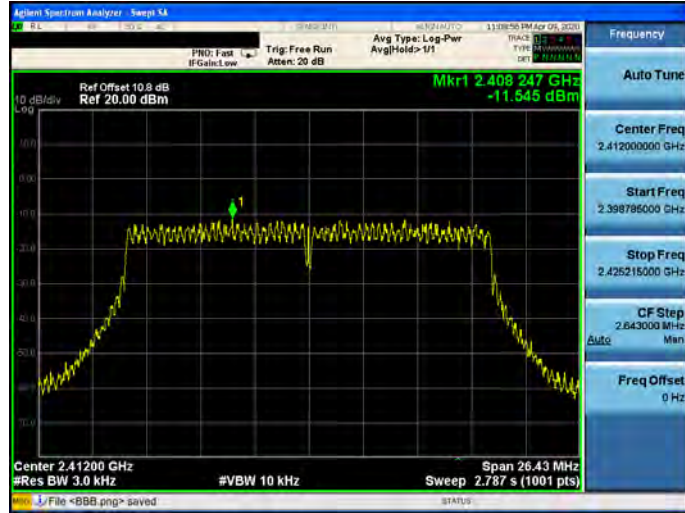
2452 MHz



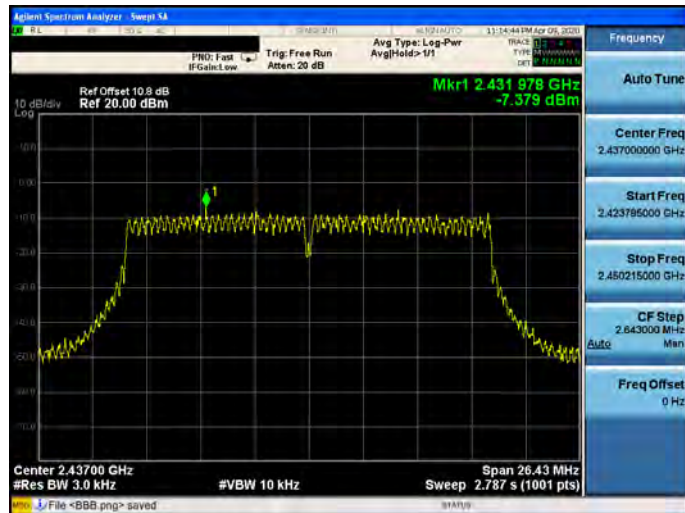


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

2412 MHz



2437 MHz



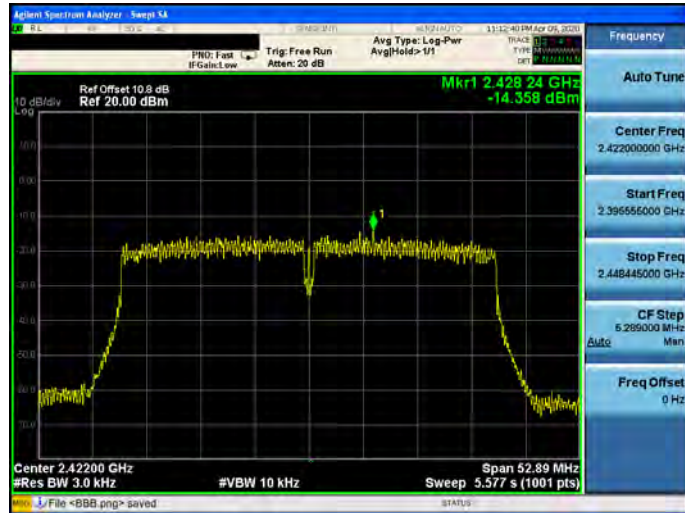
2462 MHz





Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

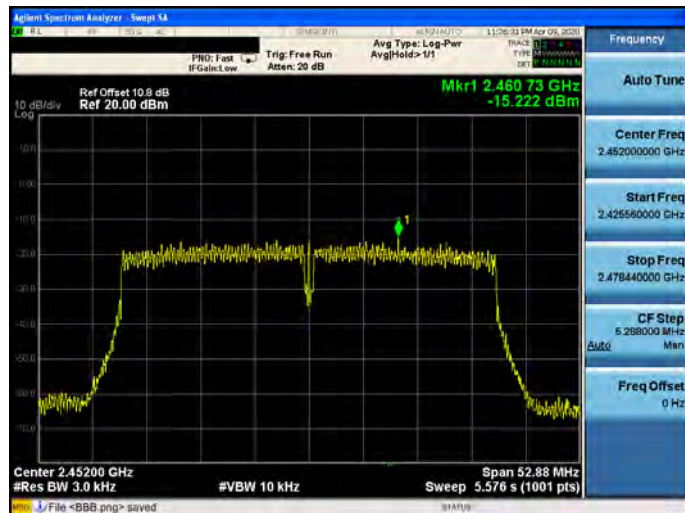
2422 MHz



2437 MHz



2452 MHz






Out of Band Conducted Emissions Measurement

■ Test Graphs

Reference level

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

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



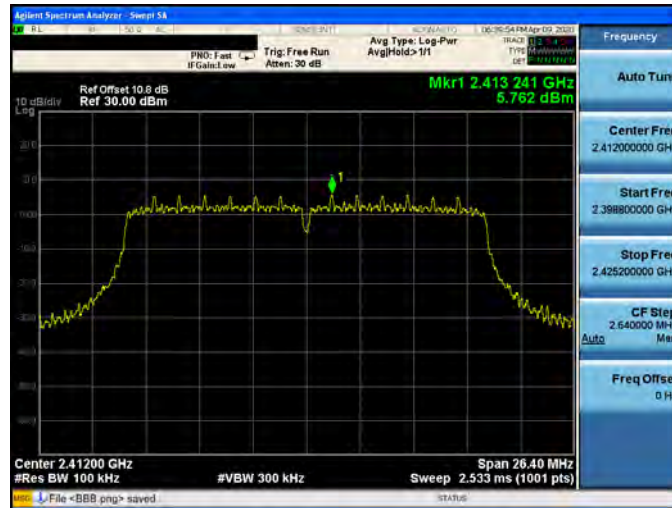
Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

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



Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

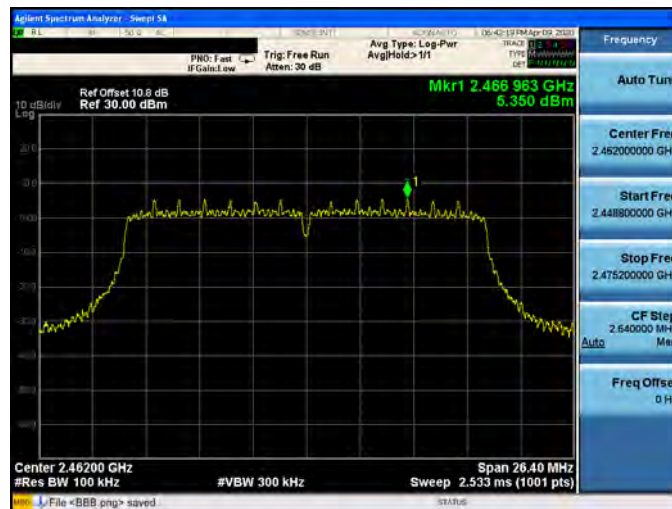
2412 MHz



2437 MHz



2462 MHz





Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

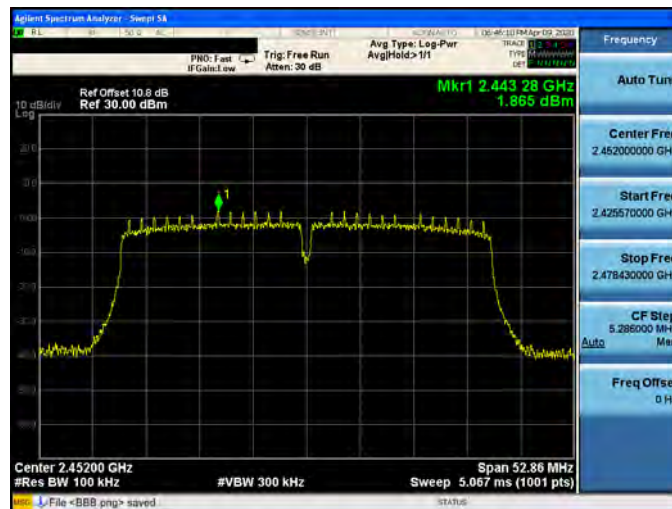
2422 MHz



2437 MHz



2452 MHz





Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

2412 MHz



2437 MHz



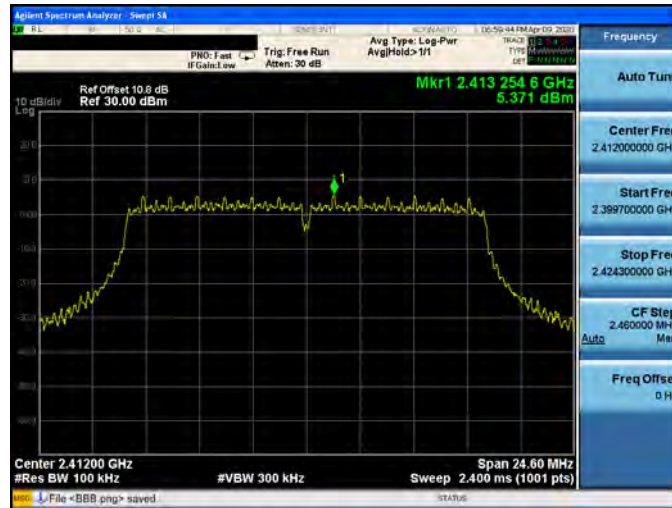
2462 MHz





Mode 3: IEEE 802.11g Continuous TX mode_ANT-1

2412 MHz



2437 MHz



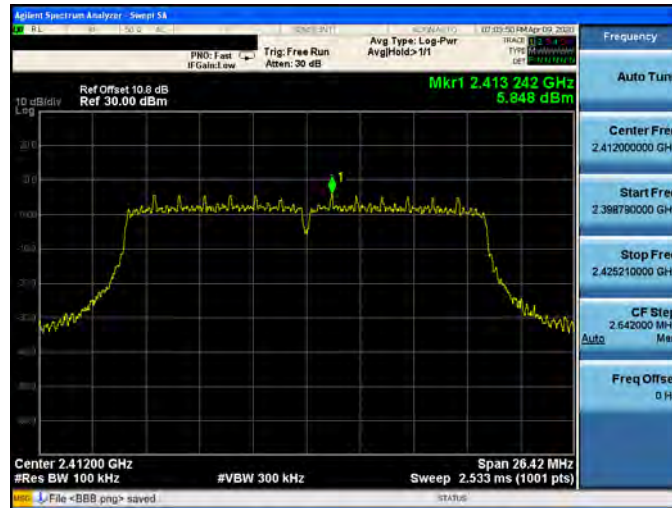
2462 MHz





Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

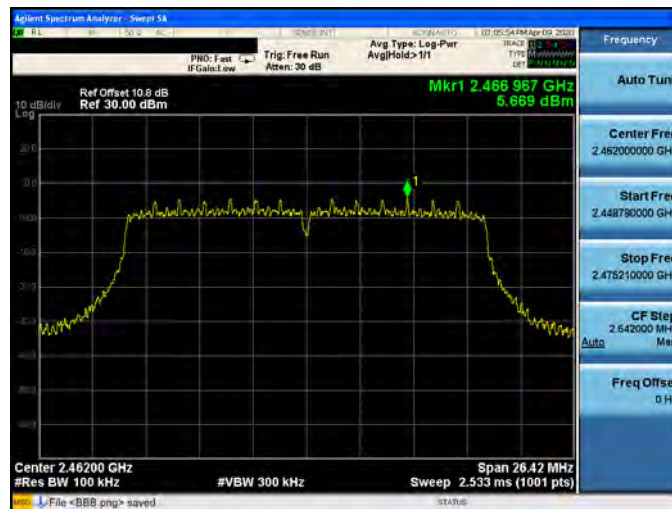
2412 MHz



2437 MHz



2462 MHz



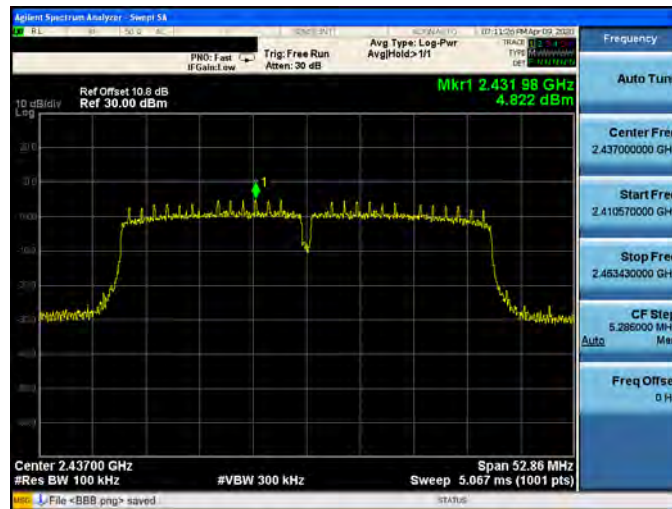


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

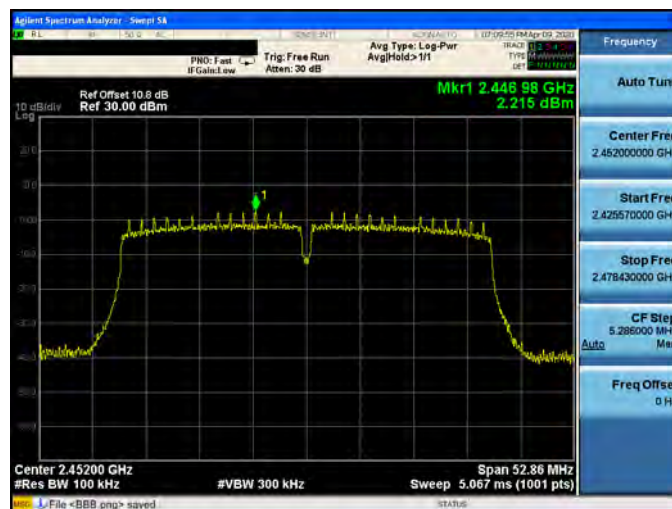
2422 MHz



2437 MHz



2452 MHz





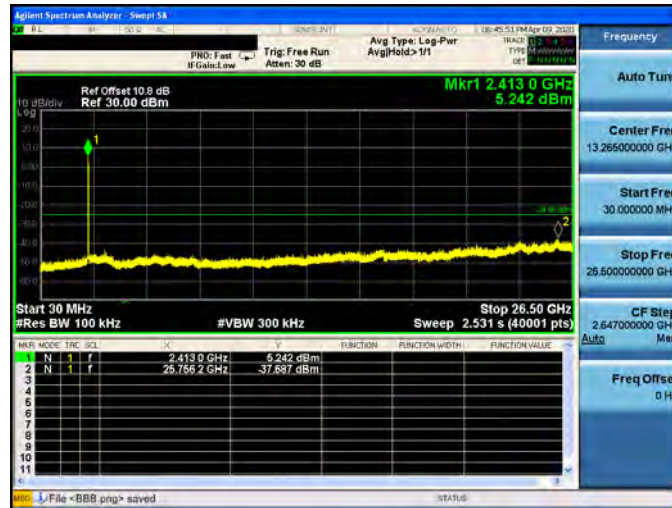
Out of Band Conducted Emissions

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

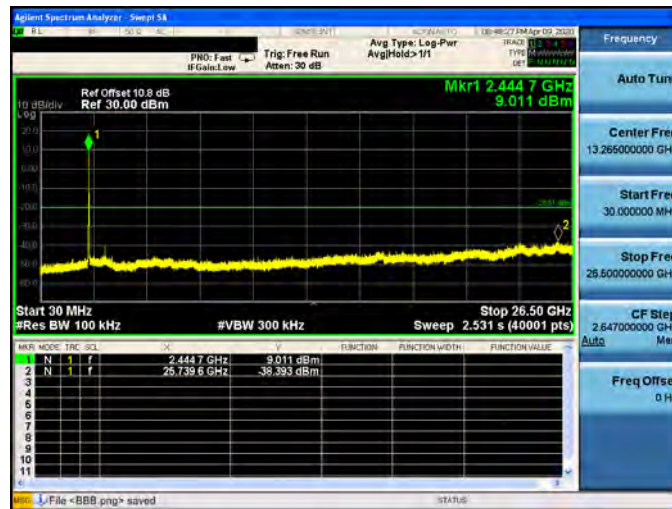
<p>2412 MHz</p>	
<p>2437 MHz</p>	
<p>2462 MHz</p>	

Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

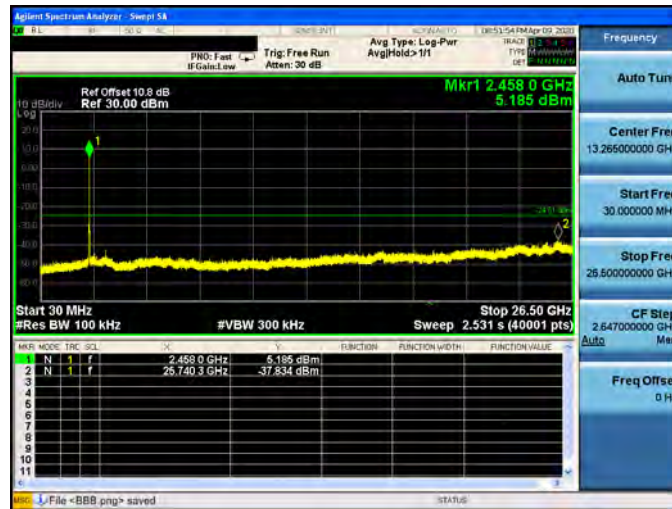
2412 MHz



2437 MHz



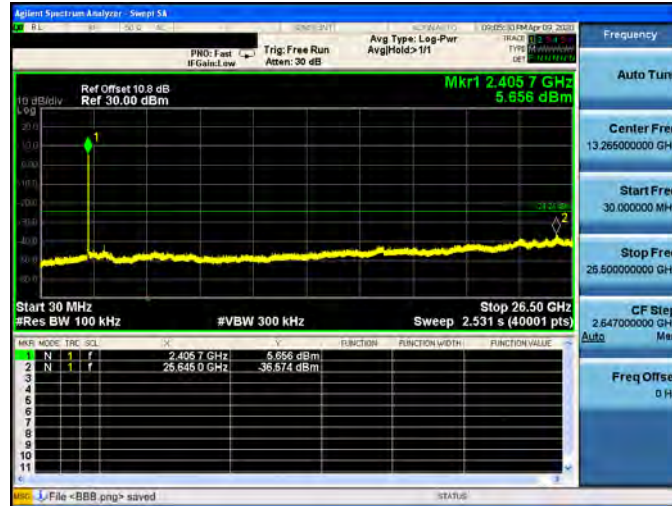
2462 MHz



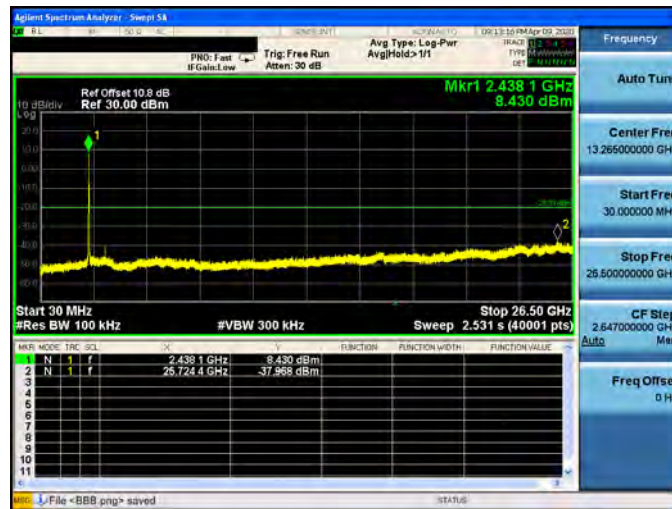


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

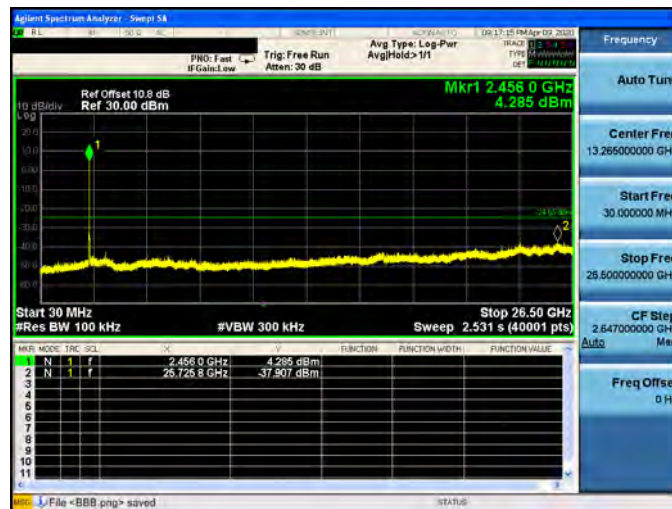
2412 MHz



2437 MHz



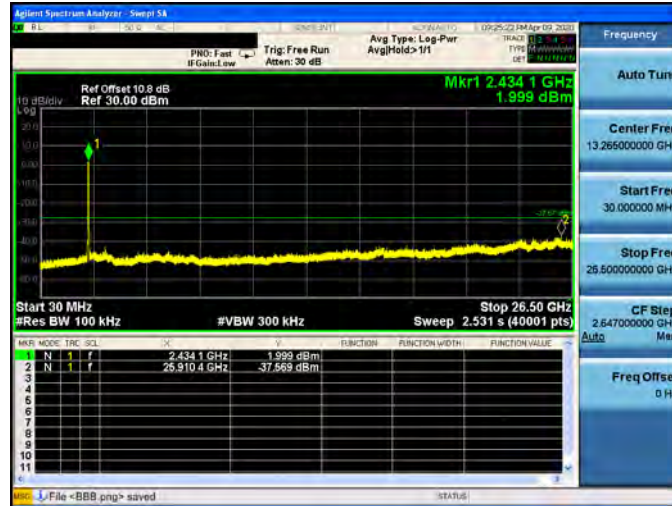
2462 MHz



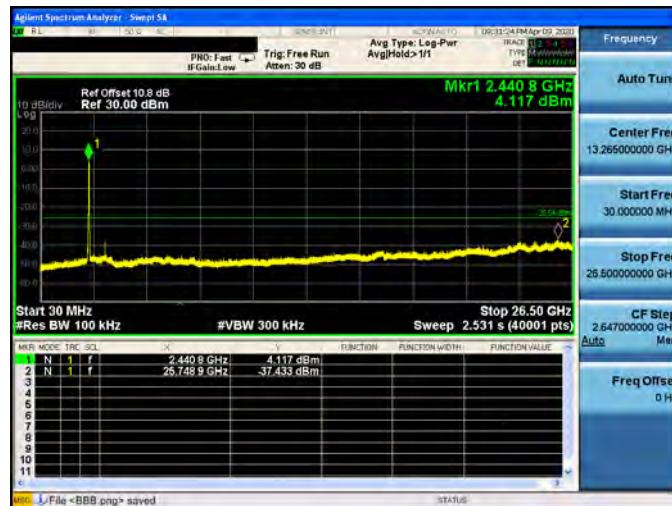


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

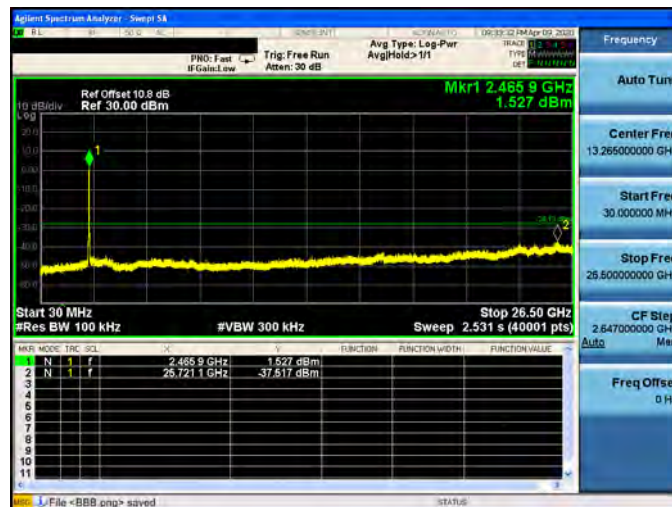
2422 MHz



2437 MHz

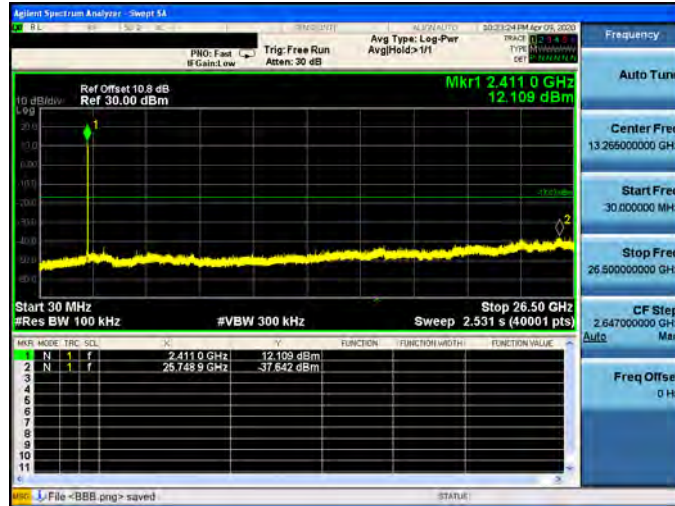


2452 MHz

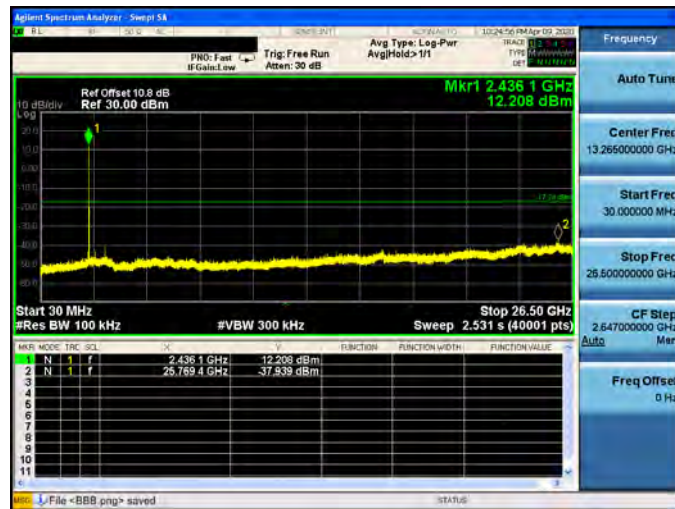


Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

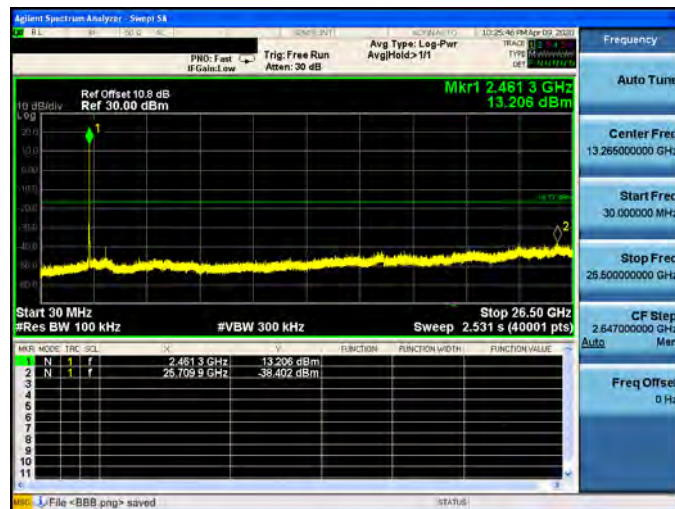
2412 MHz



2437 MHz



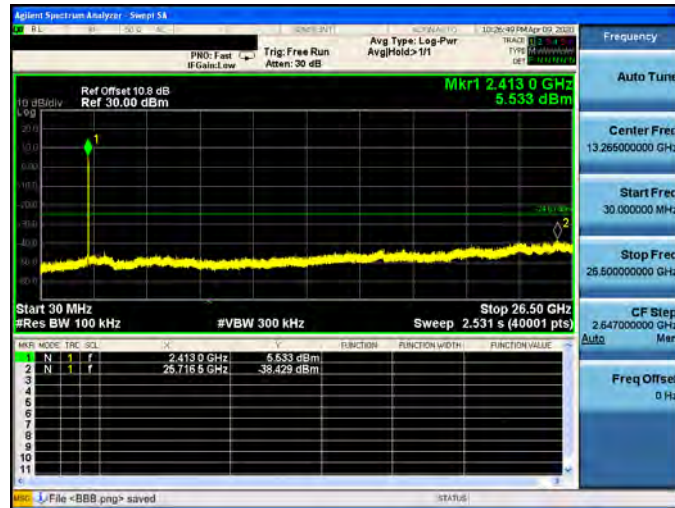
2462 MHz



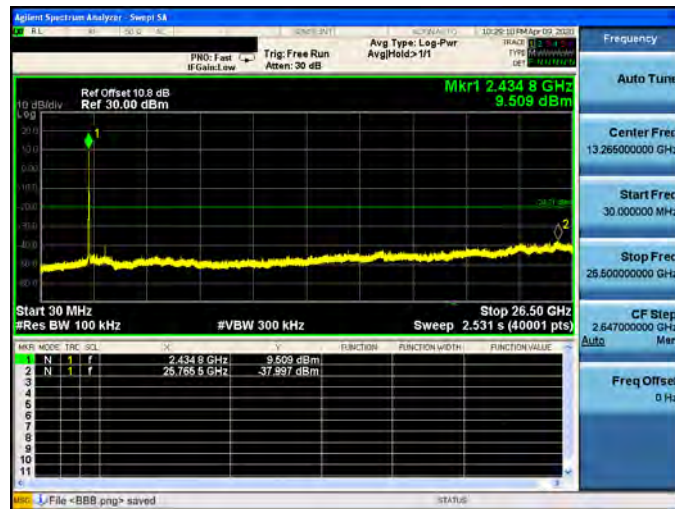


Mode 3: IEEE 802.11g Continuous TX mode_ANT-1

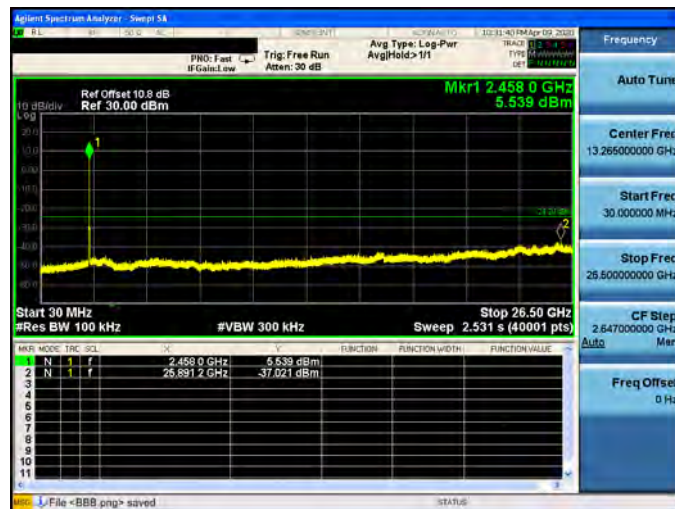
2412 MHz



2437 MHz



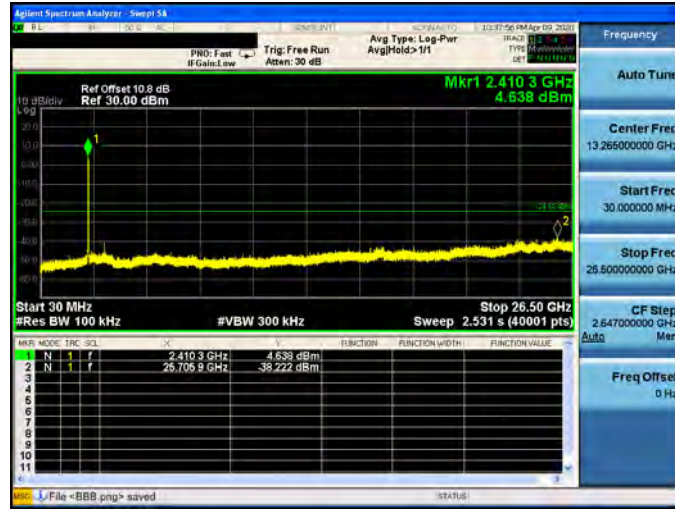
2462 MHz



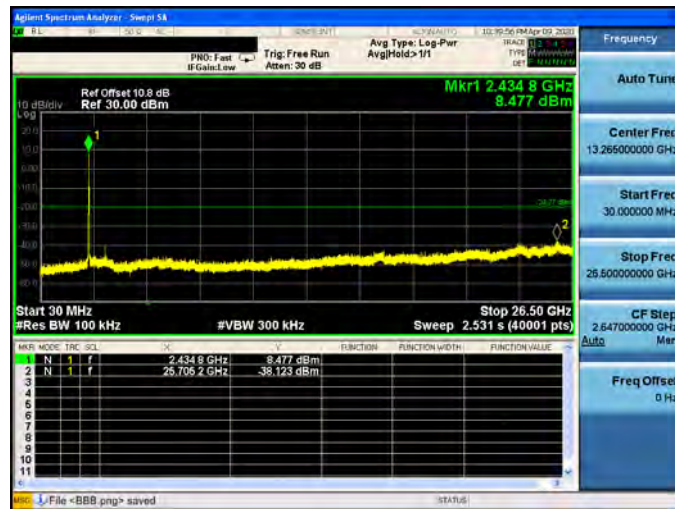


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

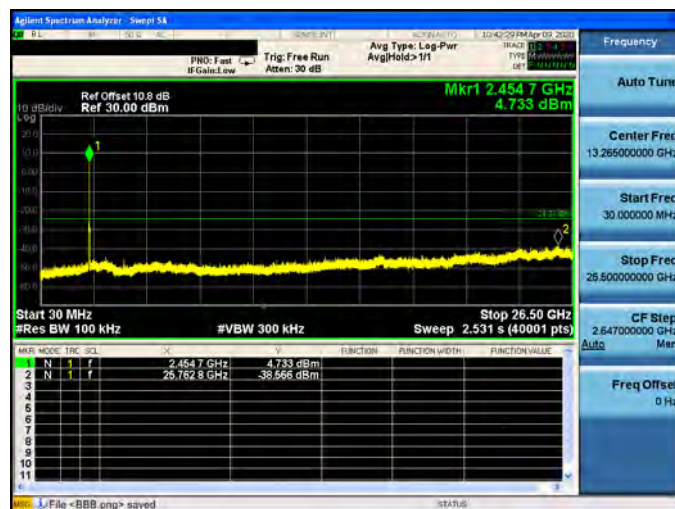
2412 MHz



2437 MHz



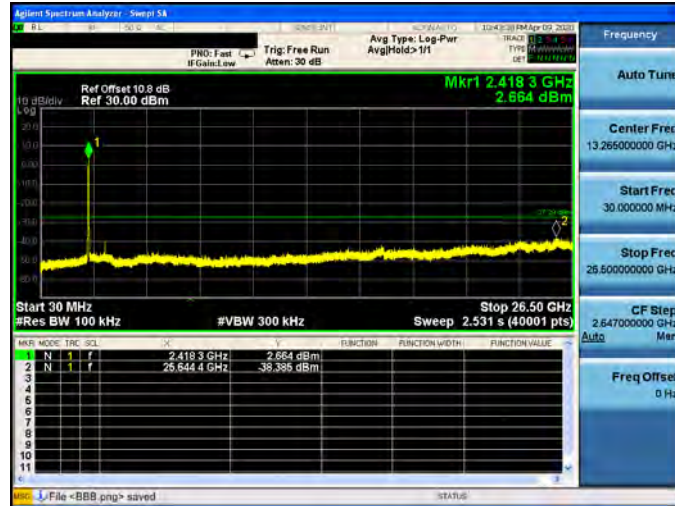
2462 MHz



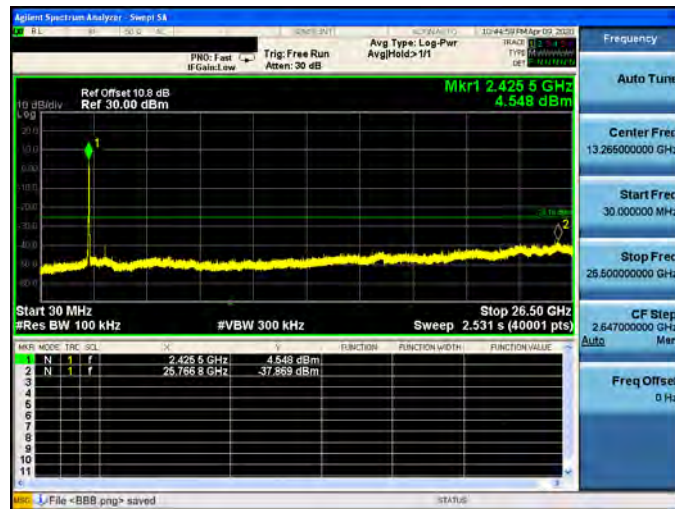


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

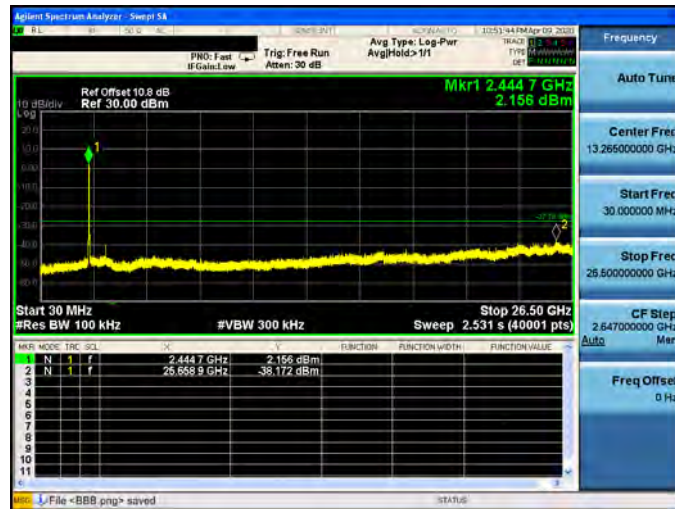
2422 MHz



2437 MHz



2452 MHz

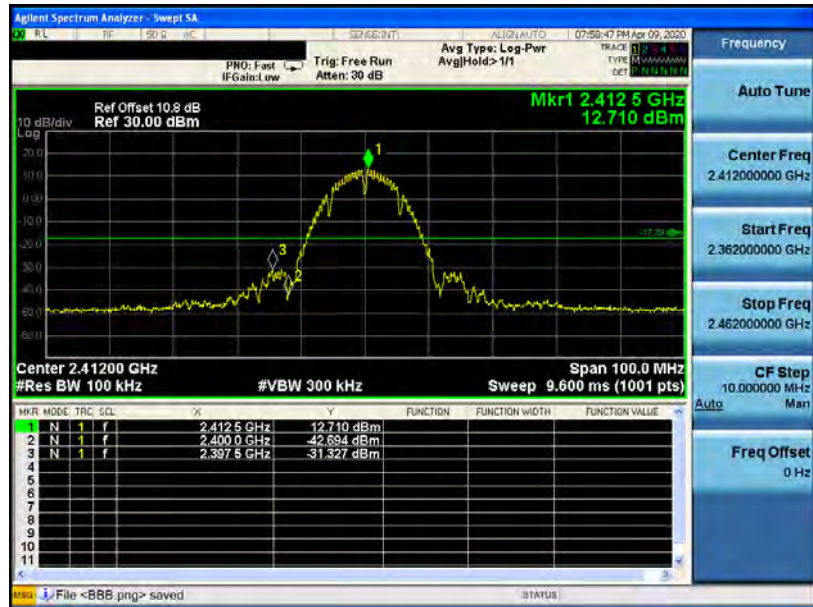




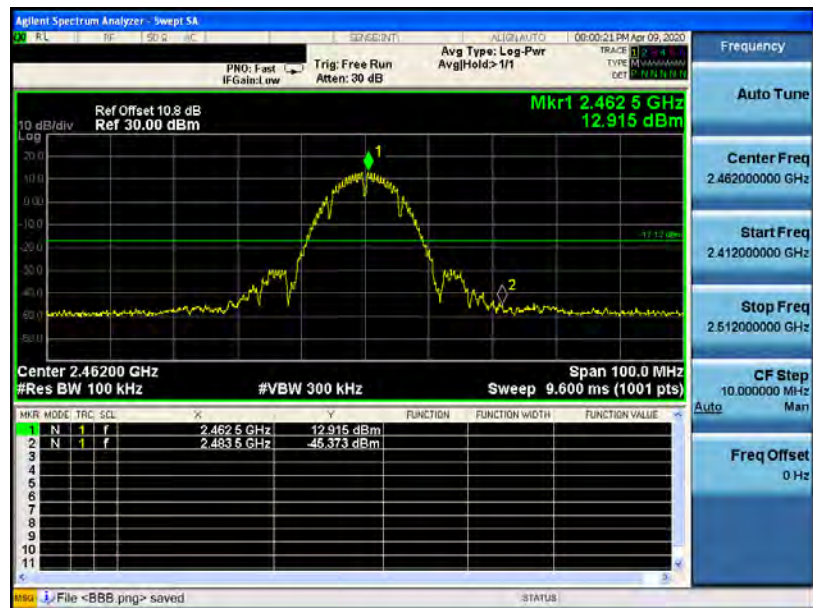
Conducted Band Edge

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

2412 MHz



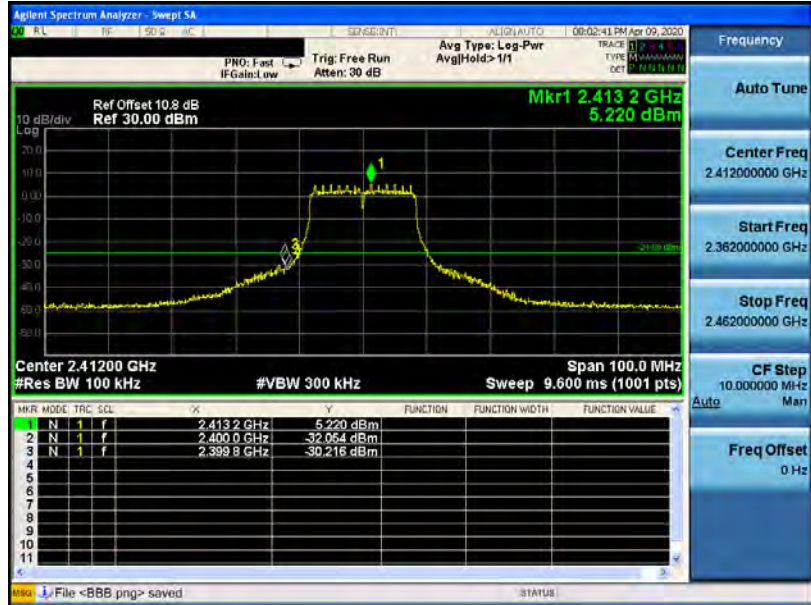
2462 MHz



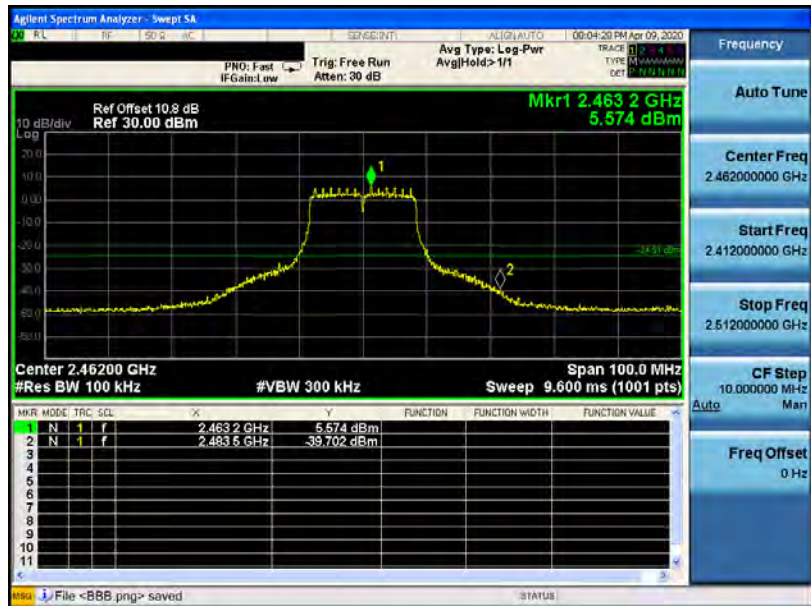


Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

2412 MHz



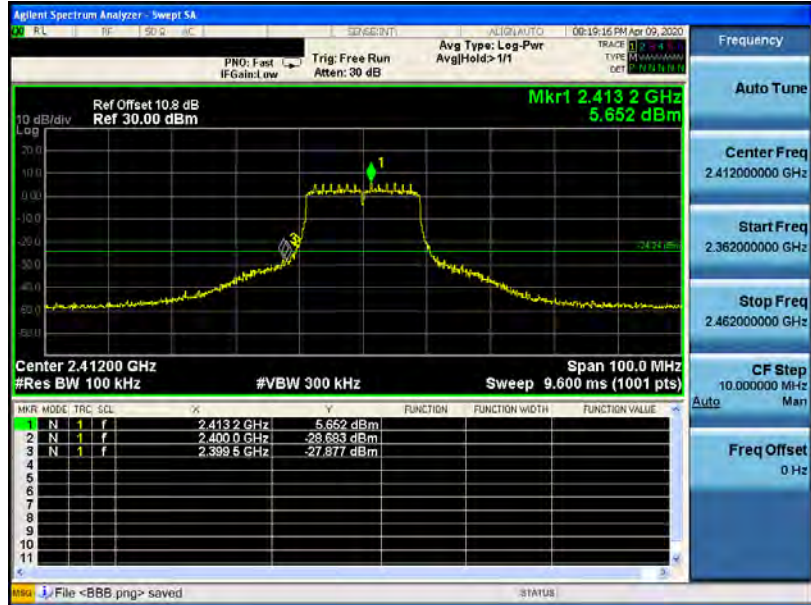
2462 MHz



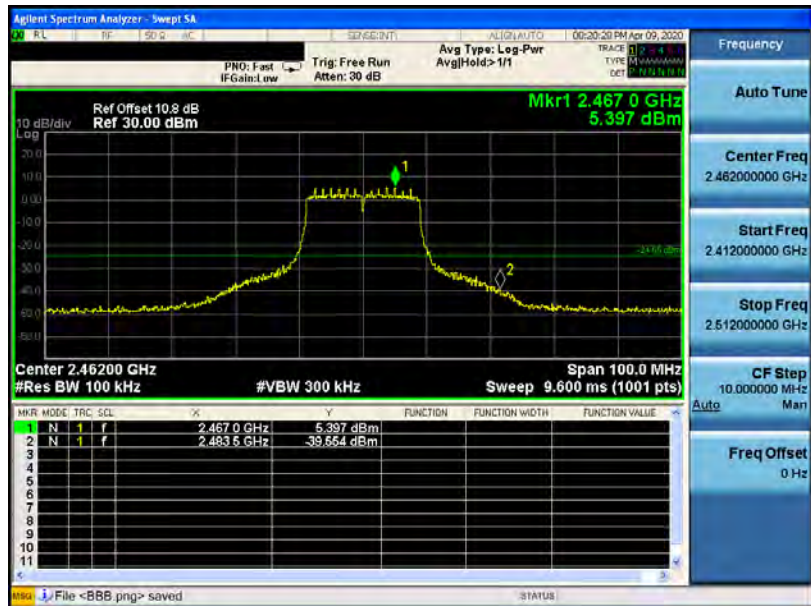


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

2412 MHz

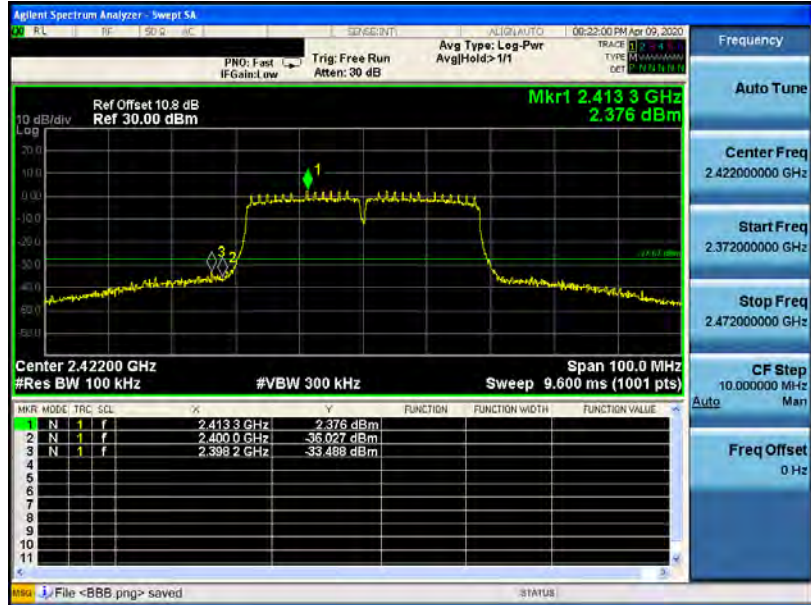


2462 MHz

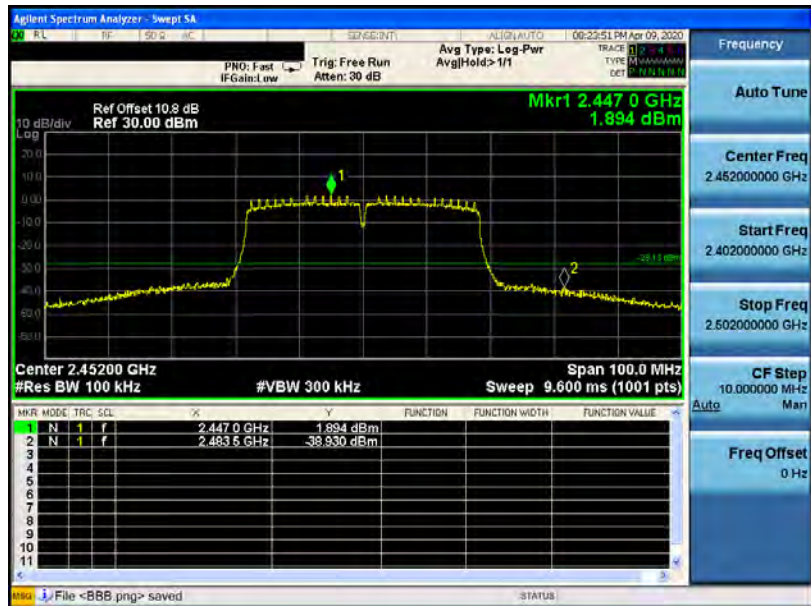


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

2422 MHz



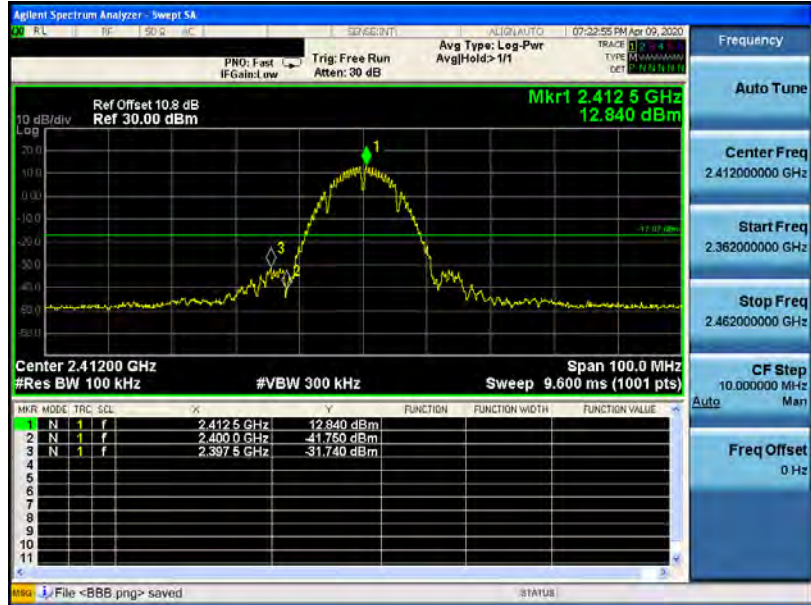
2452 MHz



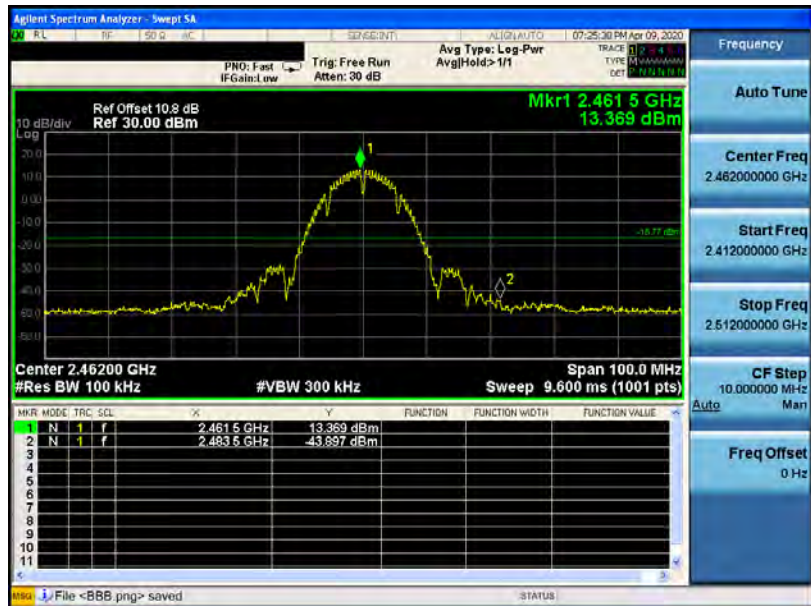


Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

2412 MHz



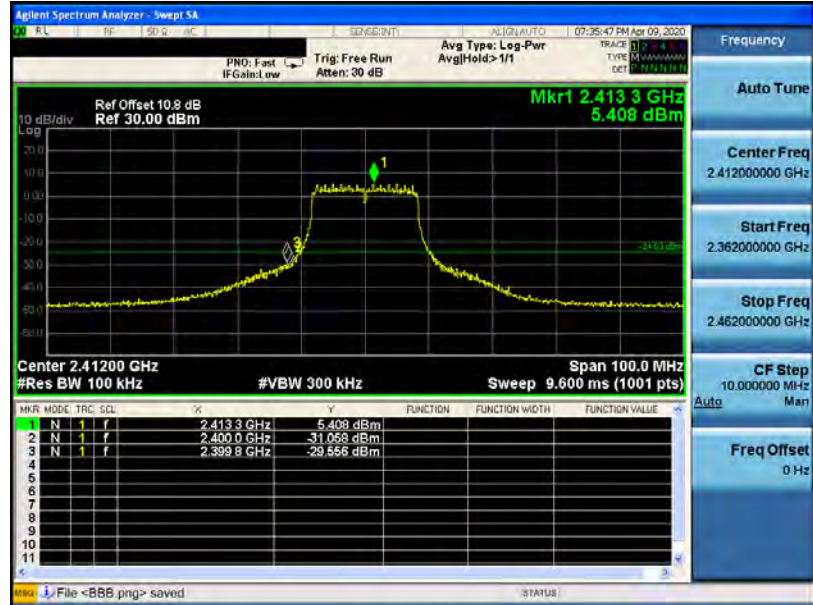
2462 MHz



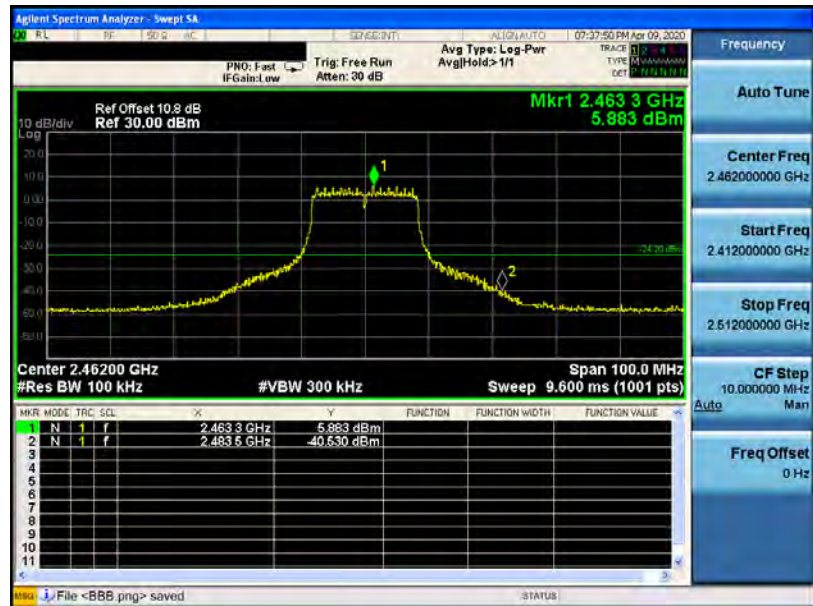


Mode 3: IEEE 802.11g Continuous TX mode_ANT-1

2412 MHz



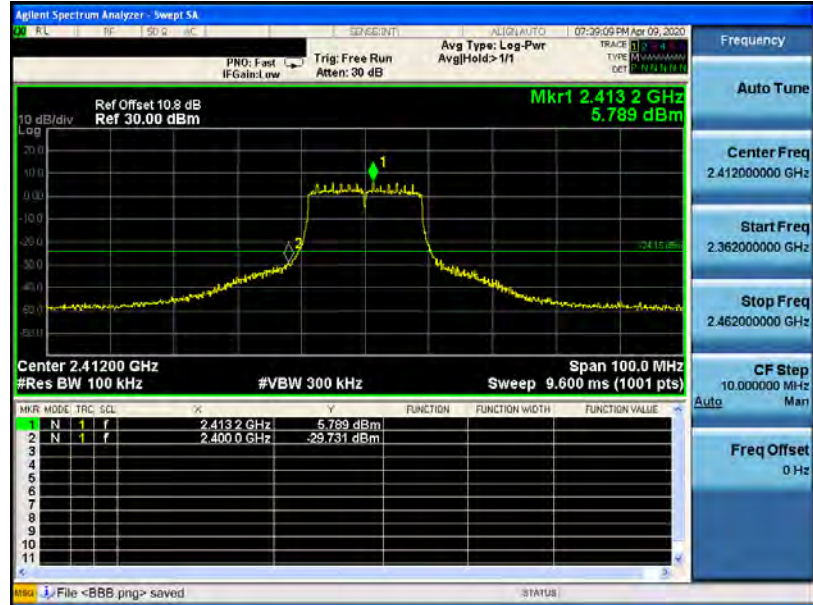
2462 MHz



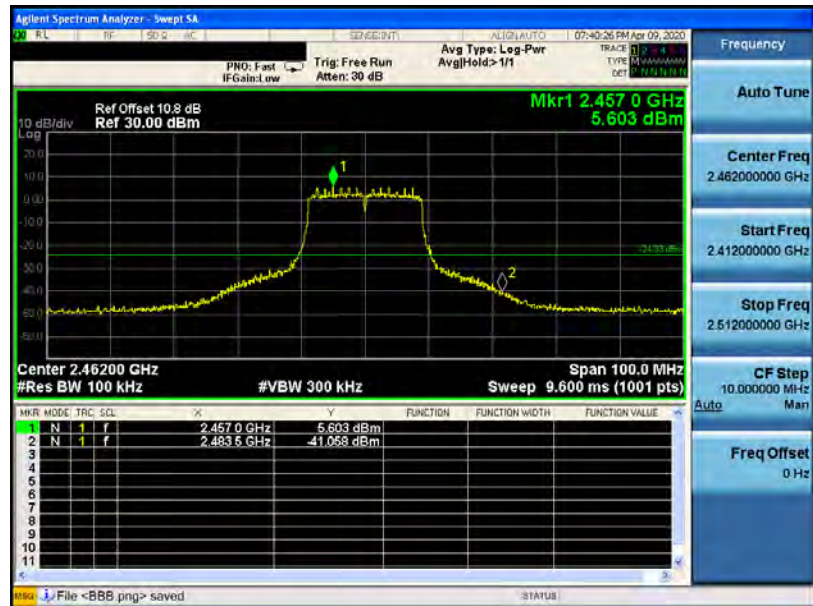


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

2412 MHz



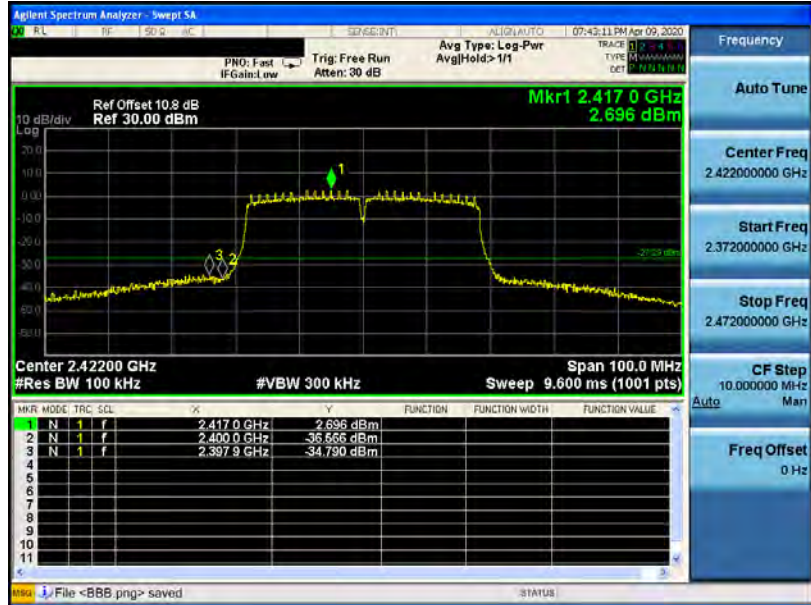
2462 MHz



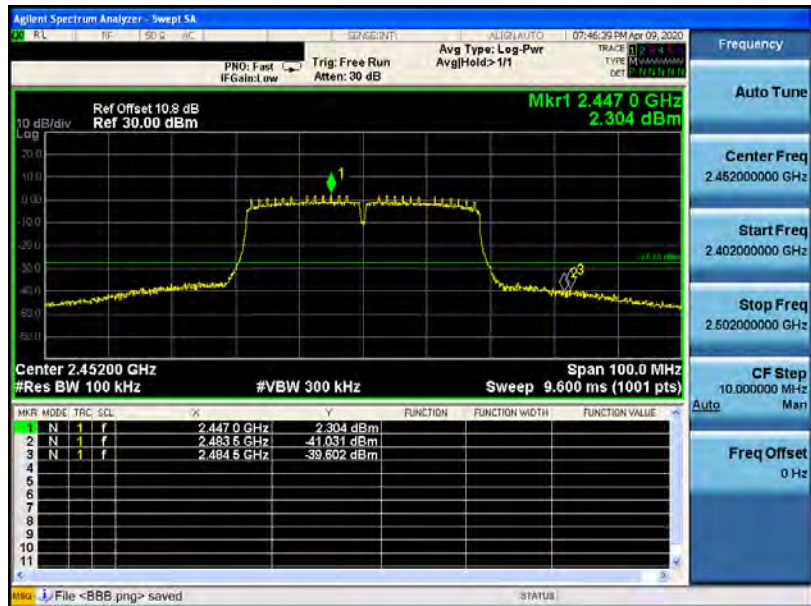


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

2422 MHz



2452 MHz



Beamforming on

Reference level

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

2412 MHz	
2437 MHz	
2462 MHz	



Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

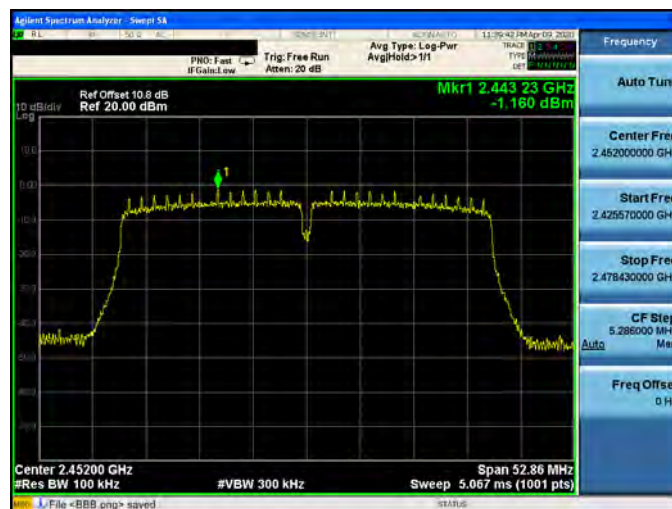
2422 MHz



2437 MHz



2452 MHz



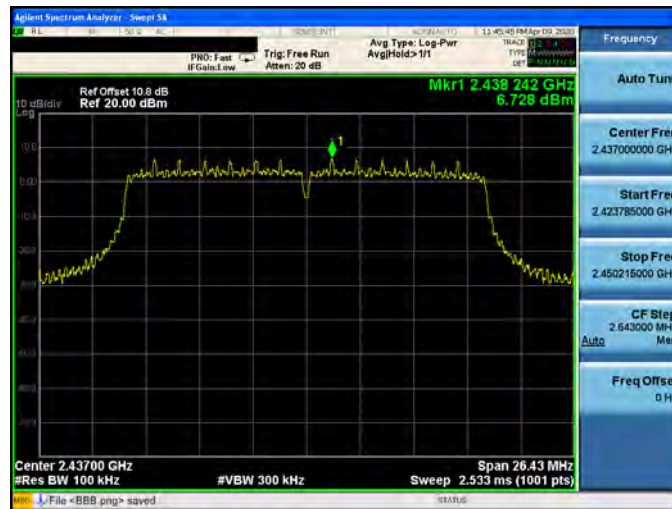


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

2412 MHz



2437 MHz



2462 MHz





Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

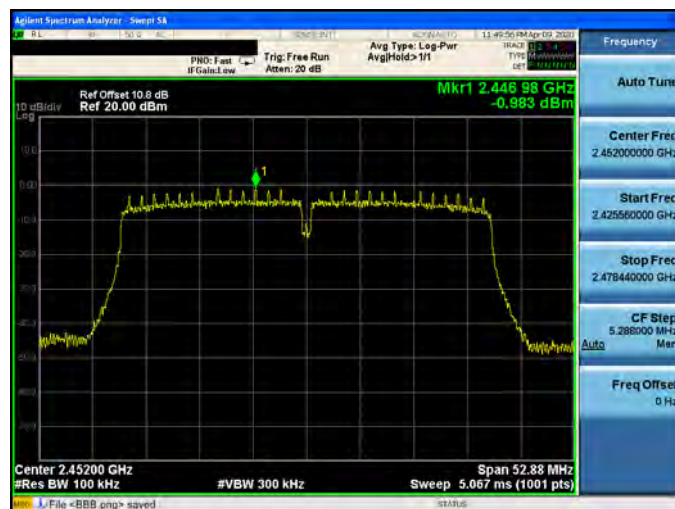
2412 MHz



2437 MHz



2462 MHz





Out of Band Conducted Emissions

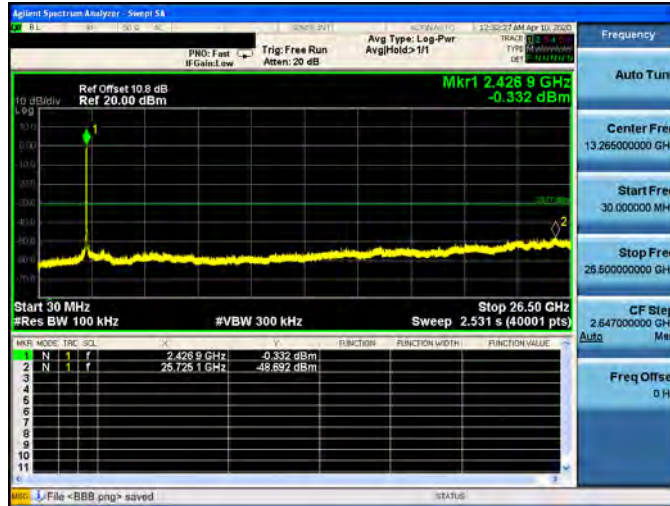
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

<p>2412 MHz</p>	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.00 dBm</p> <p>Mkr1 2.411 0 GHz 2.051 dBm</p> <p>Start 30 MHz #Res BW 100 kHz</p> <p>Stop 26.50 GHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>F</th> <th>P</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>F</td> <td>2.411 0 GHz</td> <td>2.051 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>F</td> <td>25.752 9 GHz</td> <td>-47.603 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>File <BBB.png> saved</p>	MKR	MODE	TRC	SCL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	F	2.411 0 GHz	2.051 dBm				2	N	1	F	25.752 9 GHz	-47.603 dBm			
MKR	MODE	TRC	SCL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	F	2.411 0 GHz	2.051 dBm																							
2	N	1	F	25.752 9 GHz	-47.603 dBm																							
<p>2437 MHz</p>	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.00 dBm</p> <p>Mkr1 2.434 8 GHz 5.688 dBm</p> <p>Start 30 MHz #Res BW 100 kHz</p> <p>Stop 26.50 GHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>F</th> <th>P</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>F</td> <td>2.434 8 GHz</td> <td>5.688 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>F</td> <td>25.809 4 GHz</td> <td>-48.144 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>File <BBB.png> saved</p>	MKR	MODE	TRC	SCL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	F	2.434 8 GHz	5.688 dBm				2	N	1	F	25.809 4 GHz	-48.144 dBm			
MKR	MODE	TRC	SCL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	F	2.434 8 GHz	5.688 dBm																							
2	N	1	F	25.809 4 GHz	-48.144 dBm																							
<p>2462 MHz</p>	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Ref Offset 10.8 dB Ref 20.00 dBm</p> <p>Mkr1 2.468 0 GHz 2.578 dBm</p> <p>Start 30 MHz #Res BW 100 kHz</p> <p>Stop 26.50 GHz #VBW 300 kHz Sweep 2.531 s (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>F</th> <th>P</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>F</td> <td>2.468 0 GHz</td> <td>2.578 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>F</td> <td>25.870 2 GHz</td> <td>-47.450 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>File <BBB.png> saved</p>	MKR	MODE	TRC	SCL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	F	2.468 0 GHz	2.578 dBm				2	N	1	F	25.870 2 GHz	-47.450 dBm			
MKR	MODE	TRC	SCL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	F	2.468 0 GHz	2.578 dBm																							
2	N	1	F	25.870 2 GHz	-47.450 dBm																							

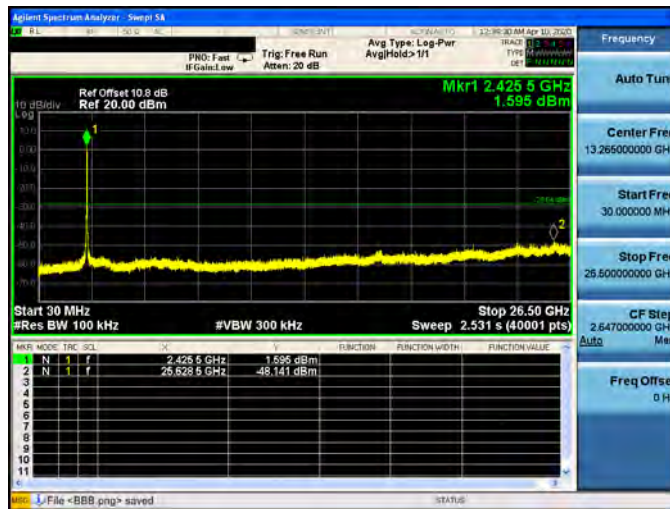


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

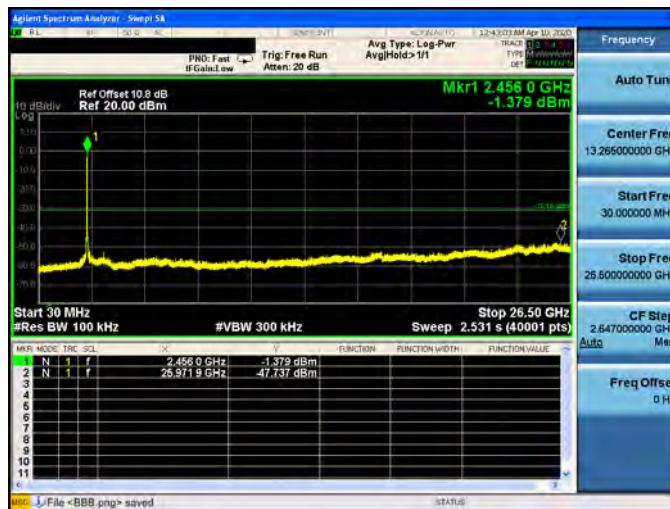
2422 MHz



2437 MHz



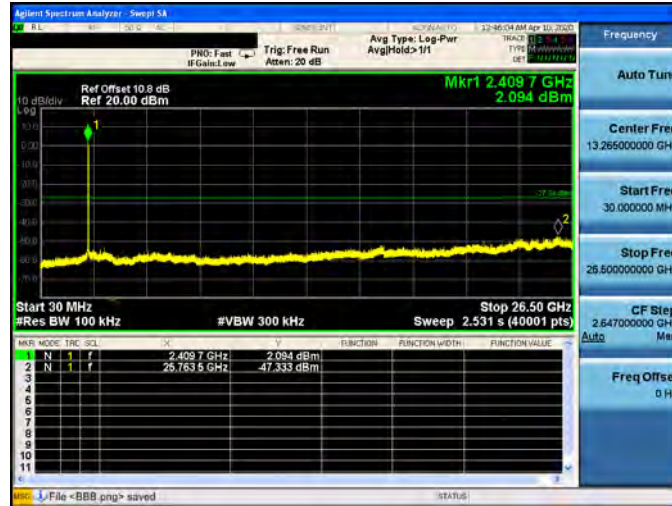
2452 MHz



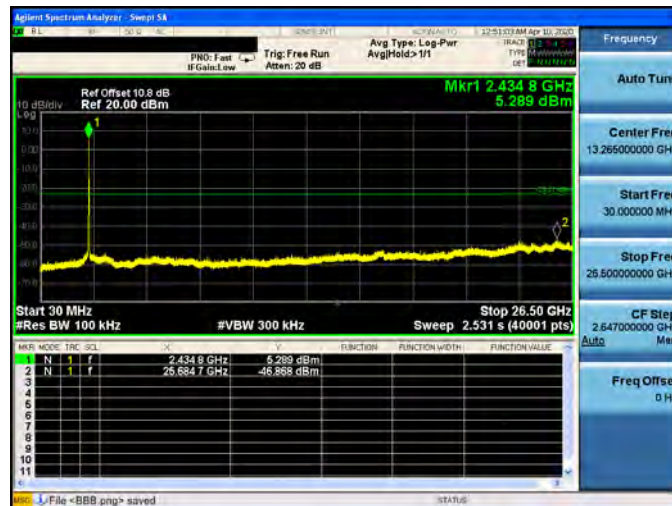


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

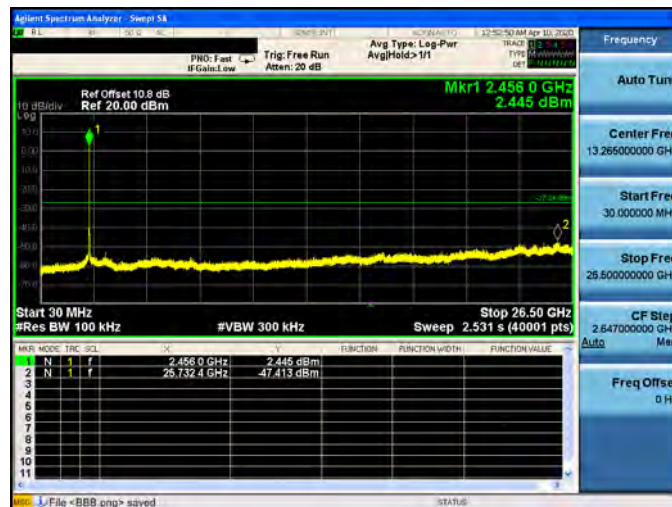
2412 MHz



2437 MHz



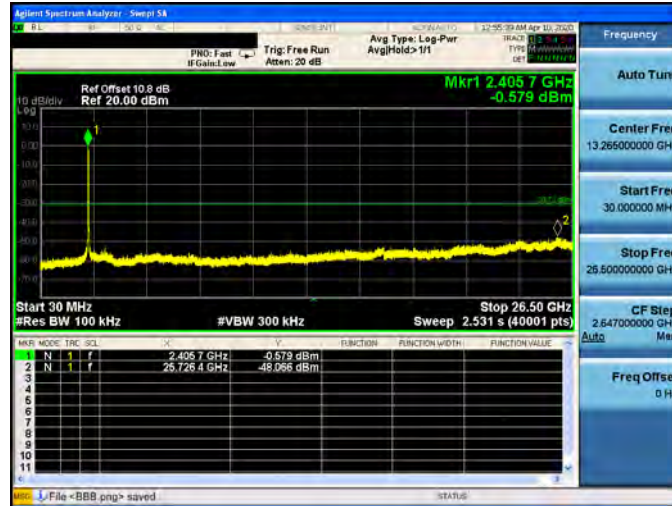
2462 MHz



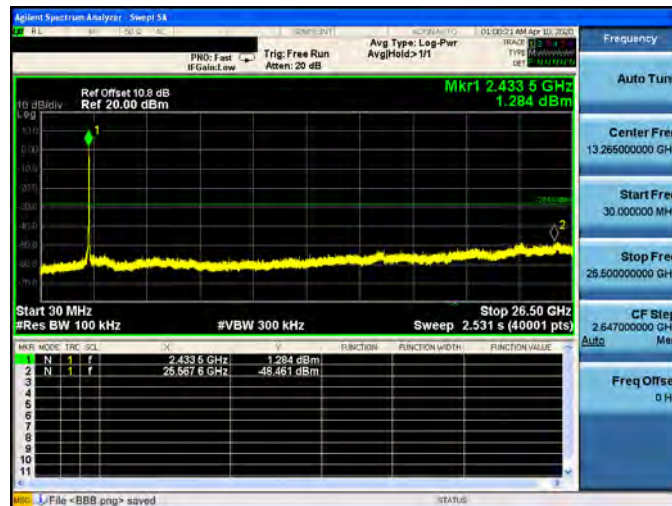


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

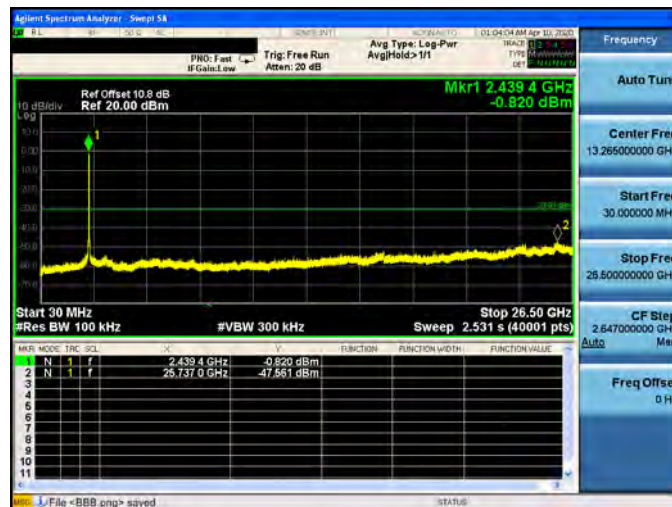
2422 MHz



2437 MHz



2452 MHz

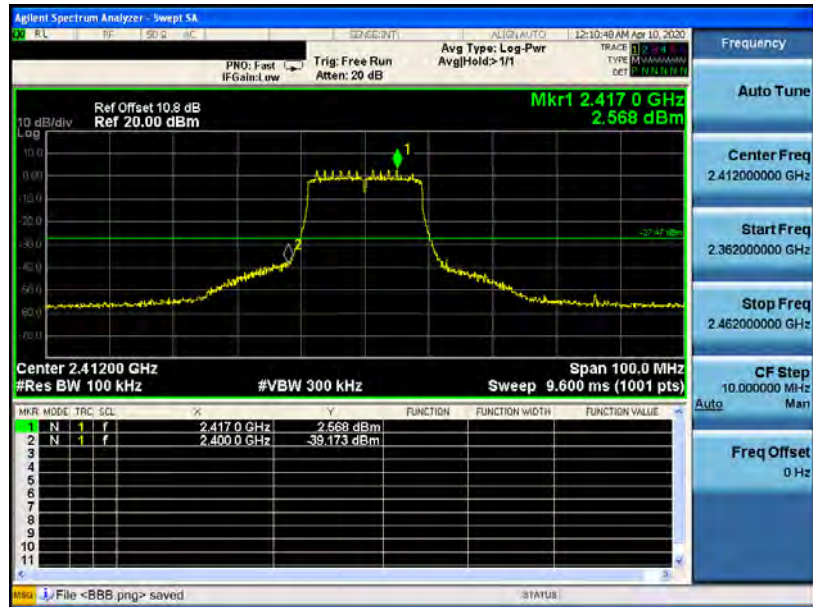




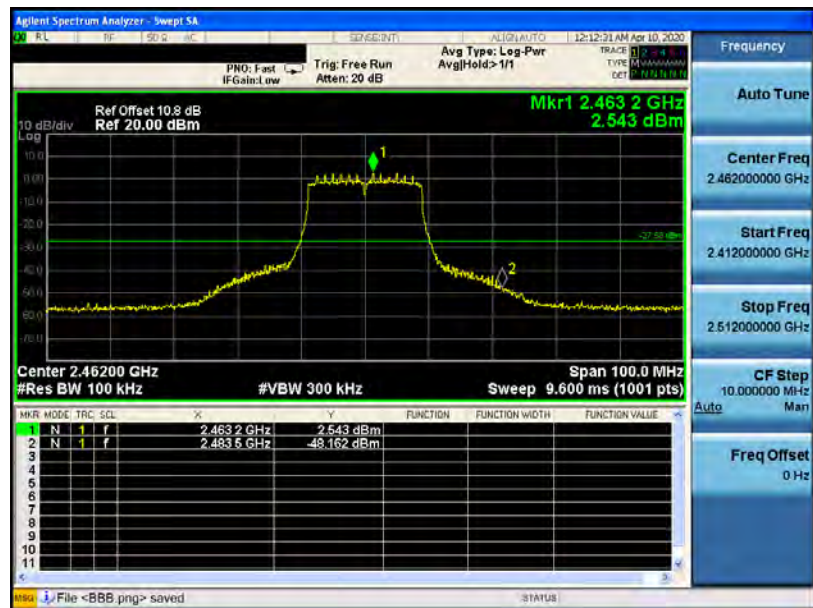
Conducted Band Edge

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

2412 MHz



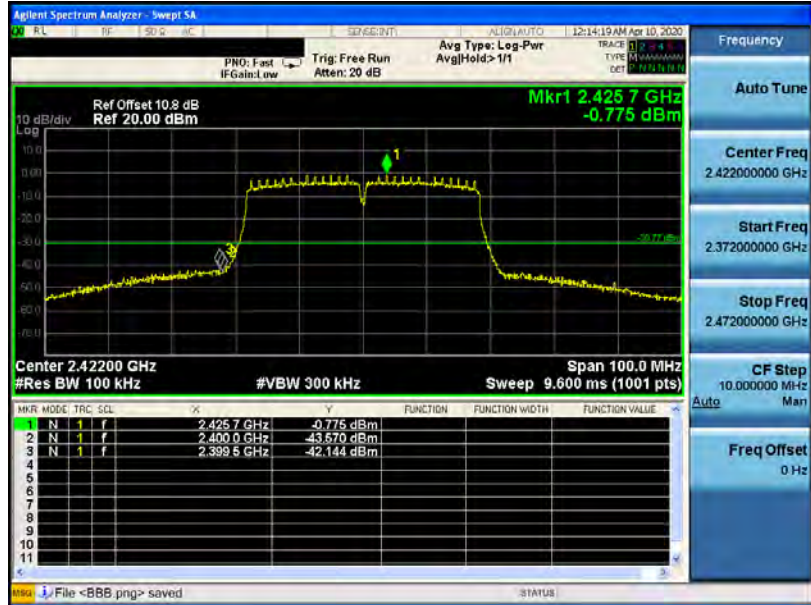
2462 MHz



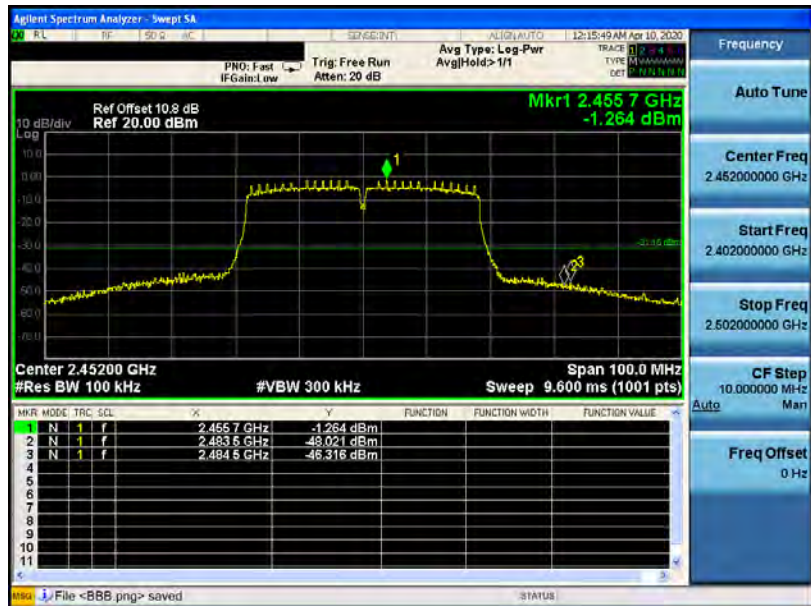


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

2422 MHz

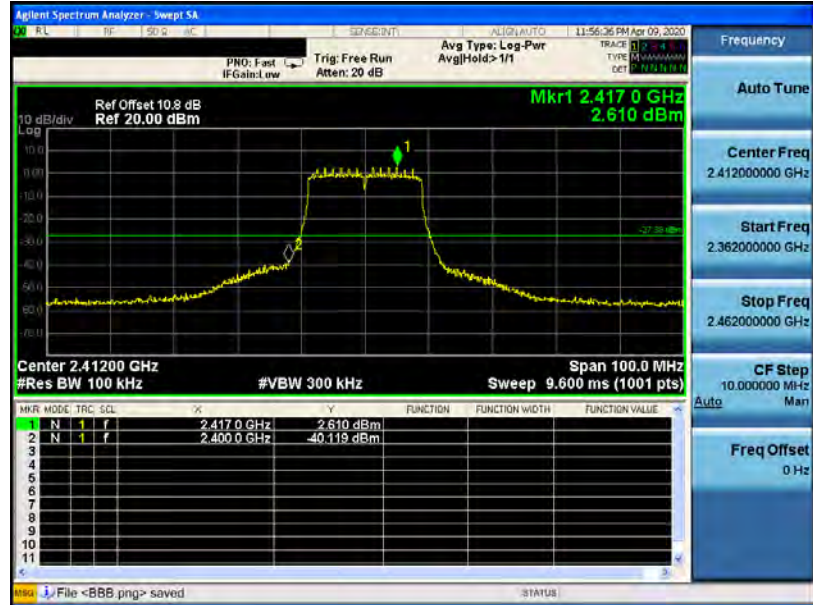


2452 MHz

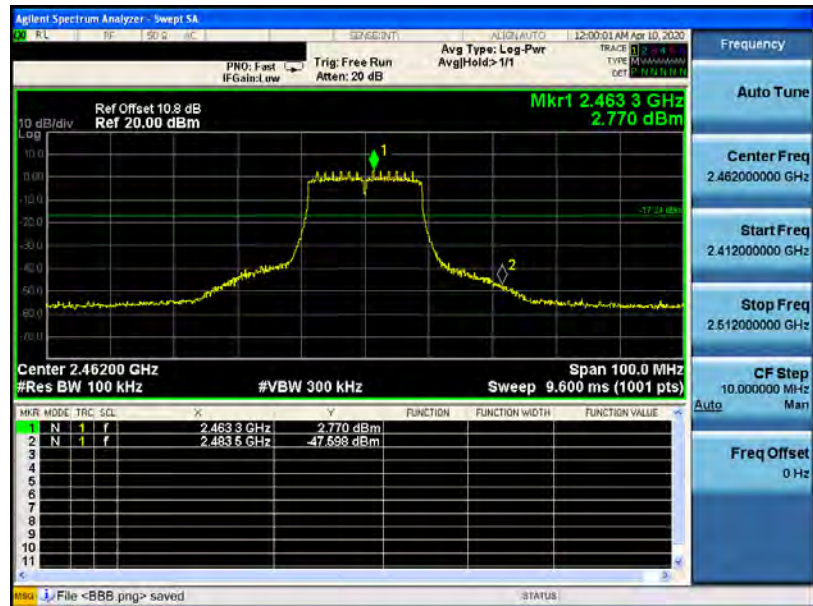


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

2412 MHz



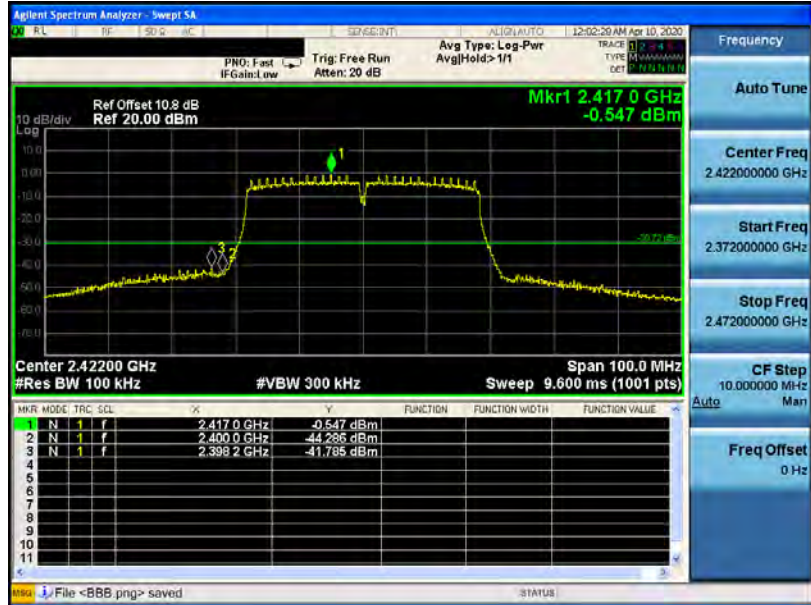
2462 MHz



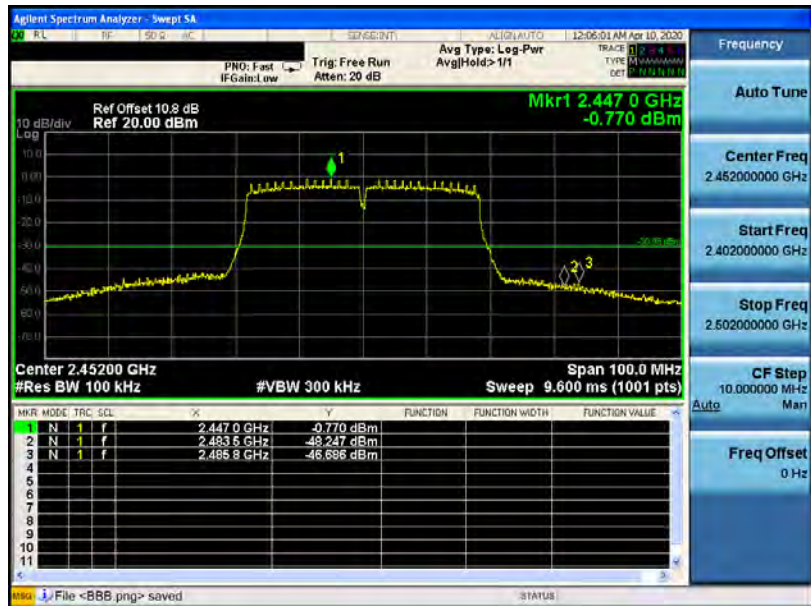


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

2422 MHz



2452 MHz





Annex C. Radiated Emission Measurement

Below 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Radiated Emission	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
165.8000	30.17	-5.65	24.52	43.50	-18.98	QP	H
281.2300	26.61	-4.66	21.95	46.00	-24.05	QP	H
417.0300	28.13	-1.61	26.52	46.00	-19.48	QP	H
521.7900	33.26	0.37	33.63	46.00	-12.37	QP	H
707.0600	27.13	4.11	31.24	46.00	-14.76	QP	H
922.4000	27.06	8.24	35.30	46.00	-10.70	QP	H
93.0500	39.89	-11.67	28.22	43.50	-15.28	QP	V
159.9800	31.15	-5.41	25.74	43.50	-17.76	QP	V
497.5400	35.72	-0.17	35.55	46.00	-10.45	QP	V
522.7600	37.05	0.40	37.45	46.00	-8.55	QP	V
706.0900	28.60	4.09	32.69	46.00	-13.31	QP	V
777.8700	29.04	5.55	34.59	46.00	-11.41	QP	V

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

Example: 24.52 = -5.65+30.17

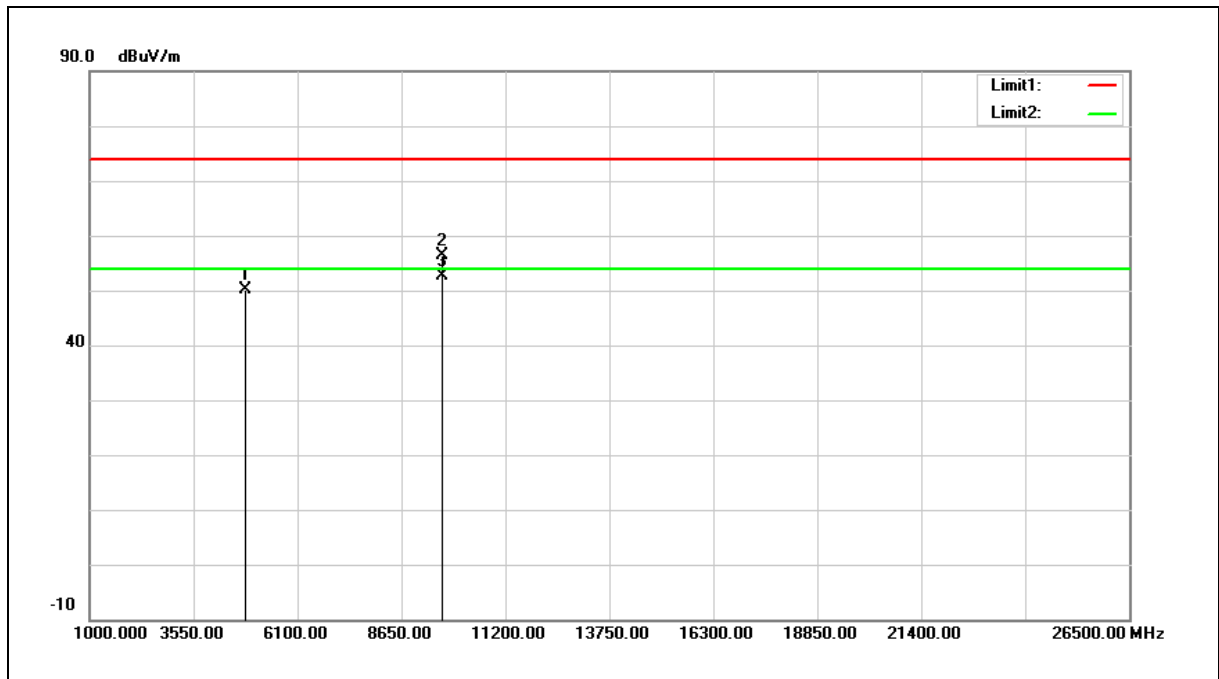
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	44.27	5.88	50.15	74.00	-23.85	peak
2	9648.000	40.86	15.57	56.43	74.00	-17.57	peak
3	9648.000	37.05	15.57	52.62	54.00	-1.38	AVG

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

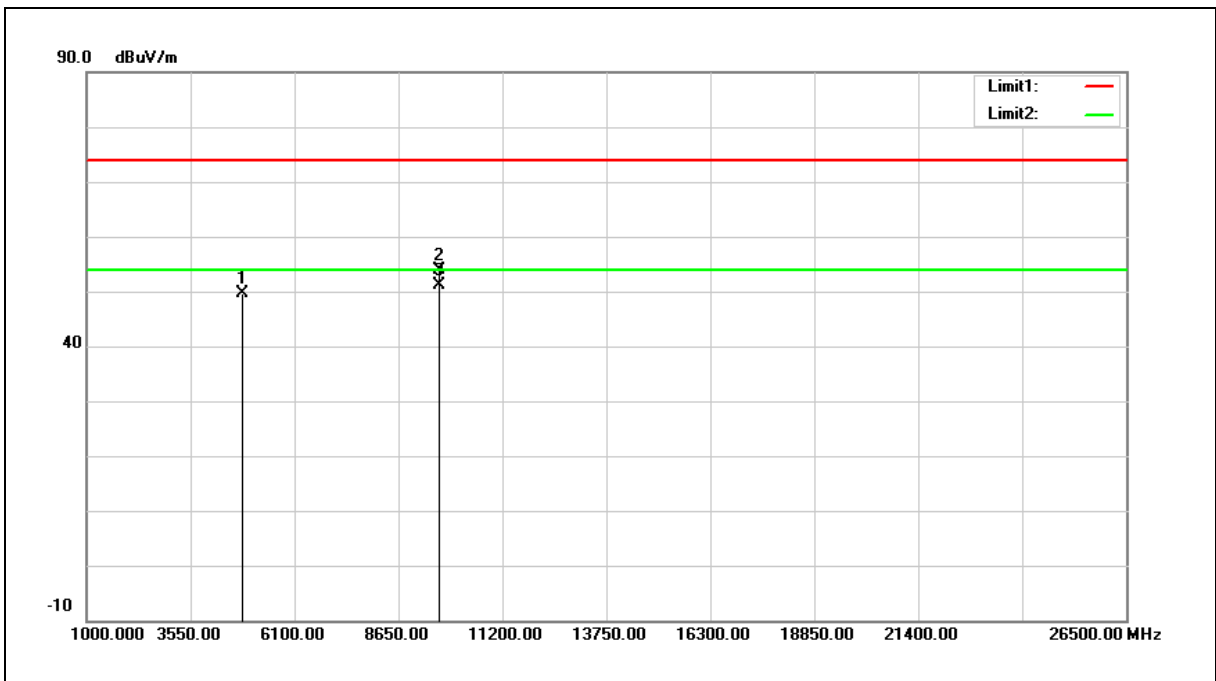
Example: 50.15= 5.88+44.27.

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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	43.81	5.88	49.69	74.00	-24.31	peak
2	9648.000	38.29	15.57	53.86	74.00	-20.14	peak
3	9648.000	35.53	15.57	51.10	54.00	-2.90	AVG

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

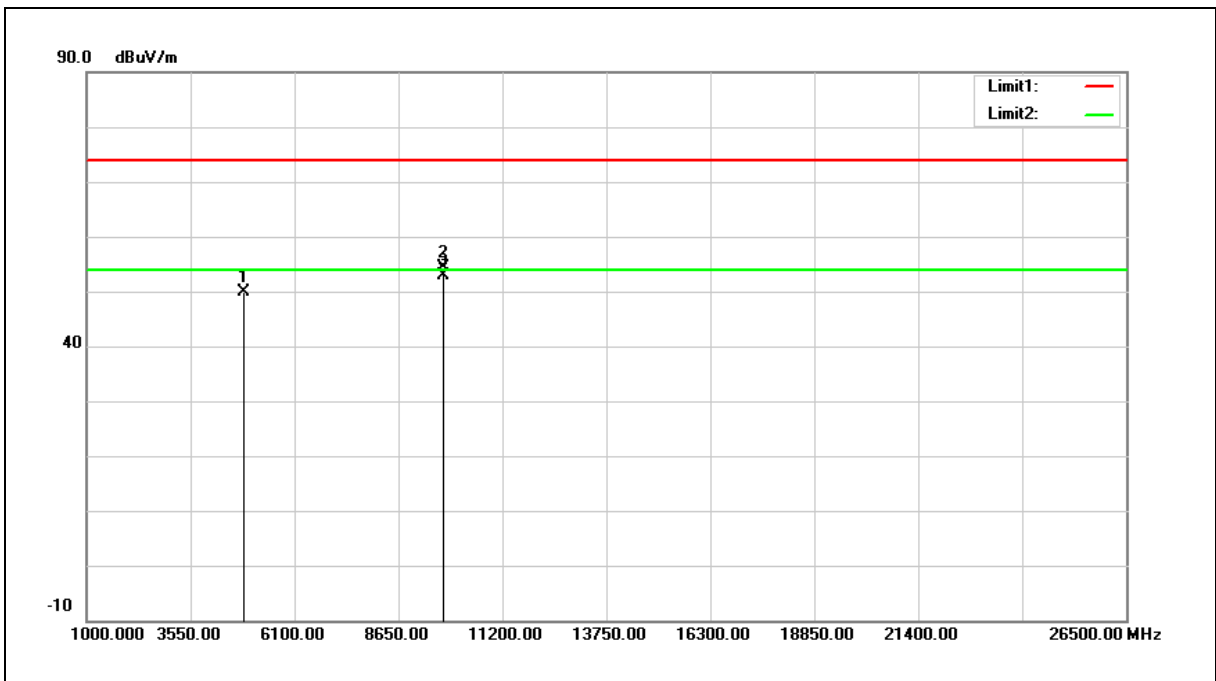
Example: 49.69= 5.88+43.81.

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	43.81	6.03	49.84	74.00	-24.16	peak
2	9748.000	38.57	15.74	54.31	74.00	-19.69	peak
3	9748.000	37.19	15.74	52.93	54.00	-1.07	AVG

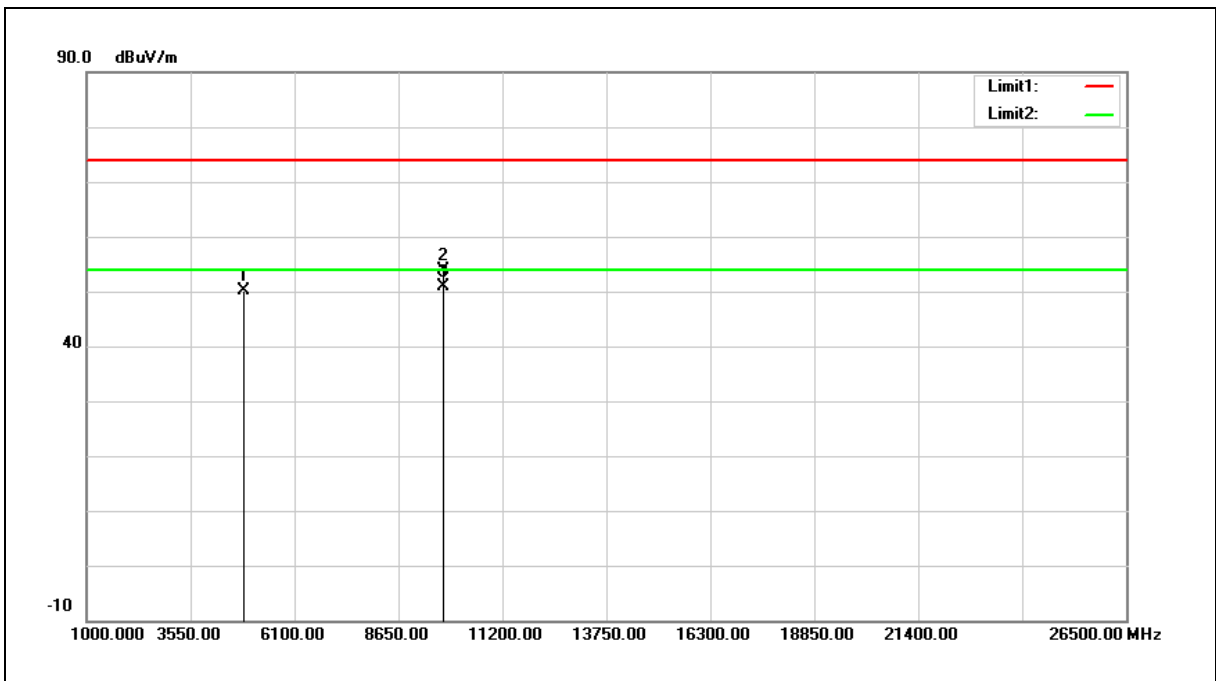
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	44.06	6.03	50.09	74.00	-23.91	peak
2	9748.000	38.17	15.74	53.91	74.00	-20.09	peak
3	9748.000	35.24	15.74	50.98	54.00	-3.02	AVG

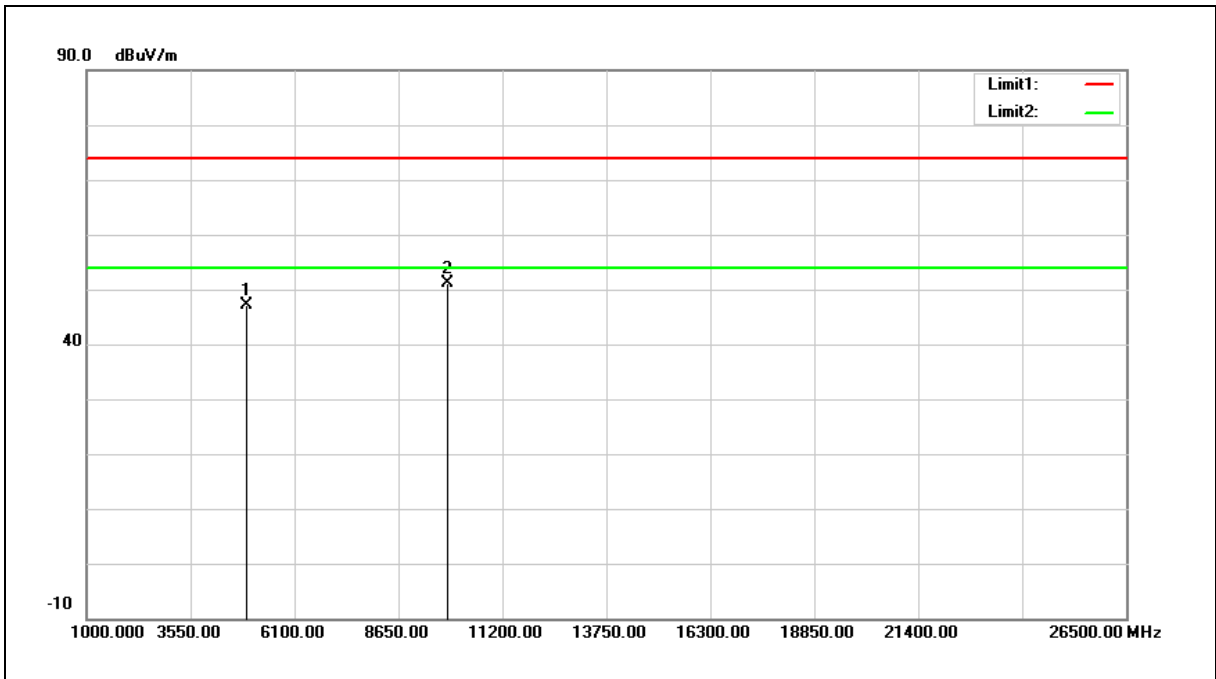
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	40.92	6.18	47.10	74.00	-26.90	peak
2	9848.000	35.34	15.91	51.25	74.00	-22.75	peak

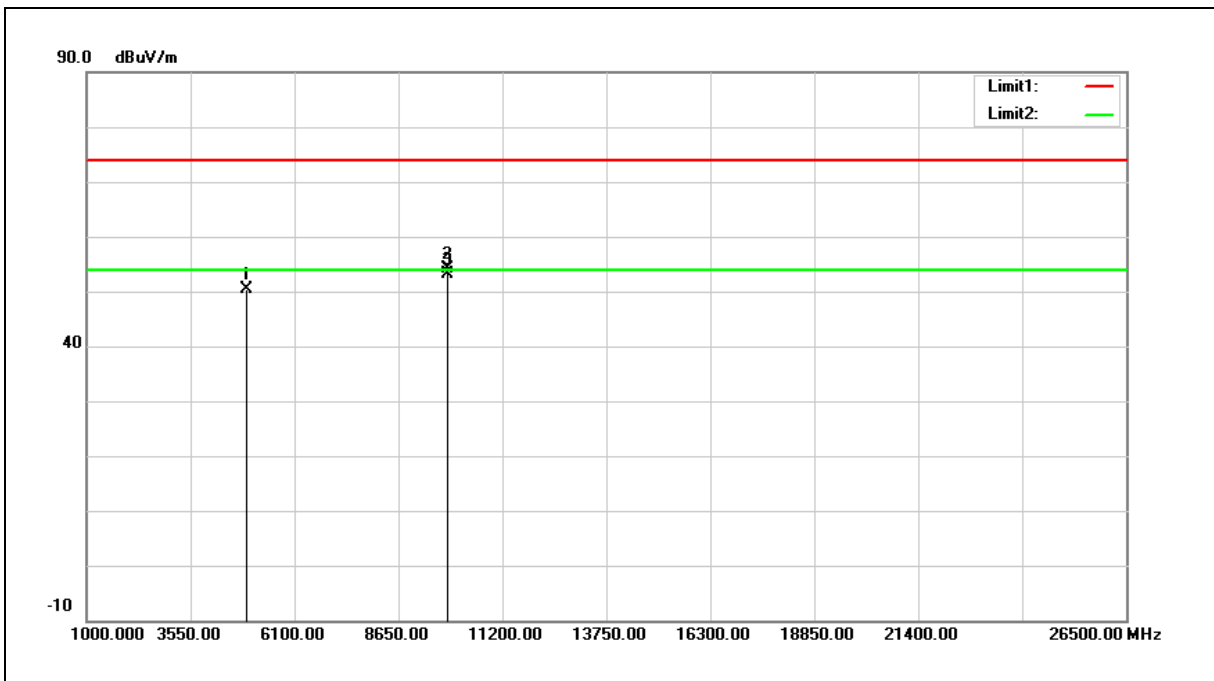
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	44.10	6.18	50.28	74.00	-23.72	peak
2	9848.000	38.12	15.91	54.03	74.00	-19.97	peak
3	9848.000	37.26	15.91	53.17	54.00	-0.83	AVG

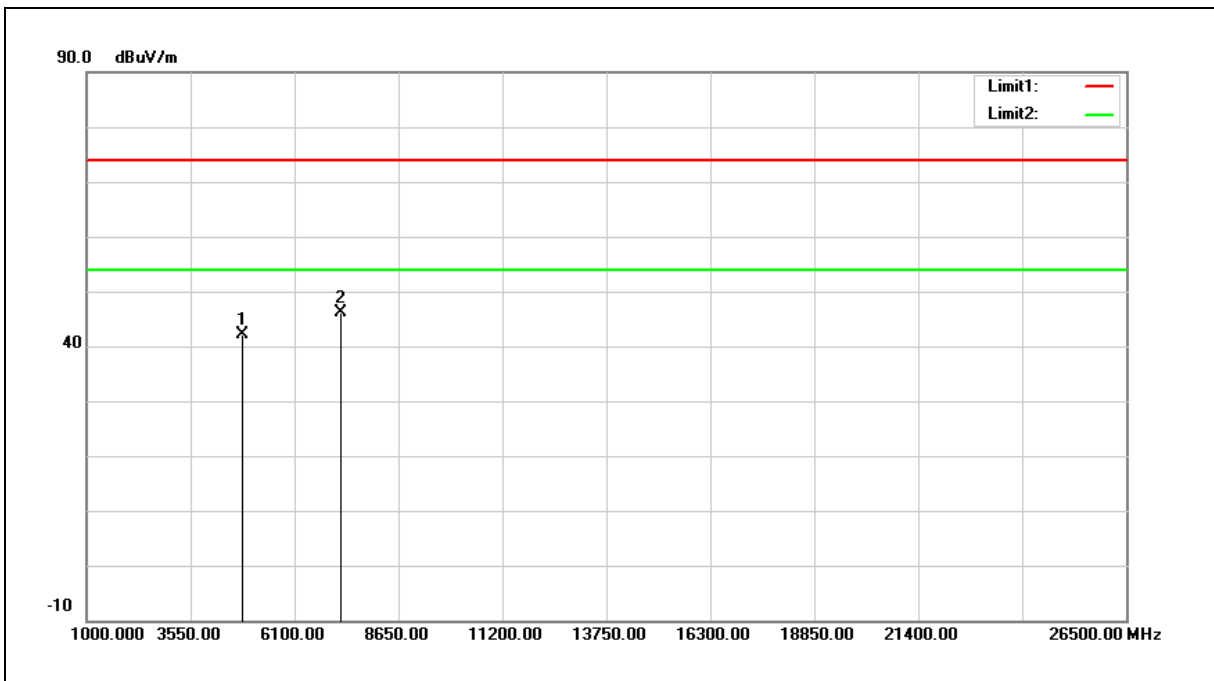
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	36.34	5.88	42.22	74.00	-31.78	peak
2	7236.000	33.61	12.42	46.03	74.00	-27.97	peak

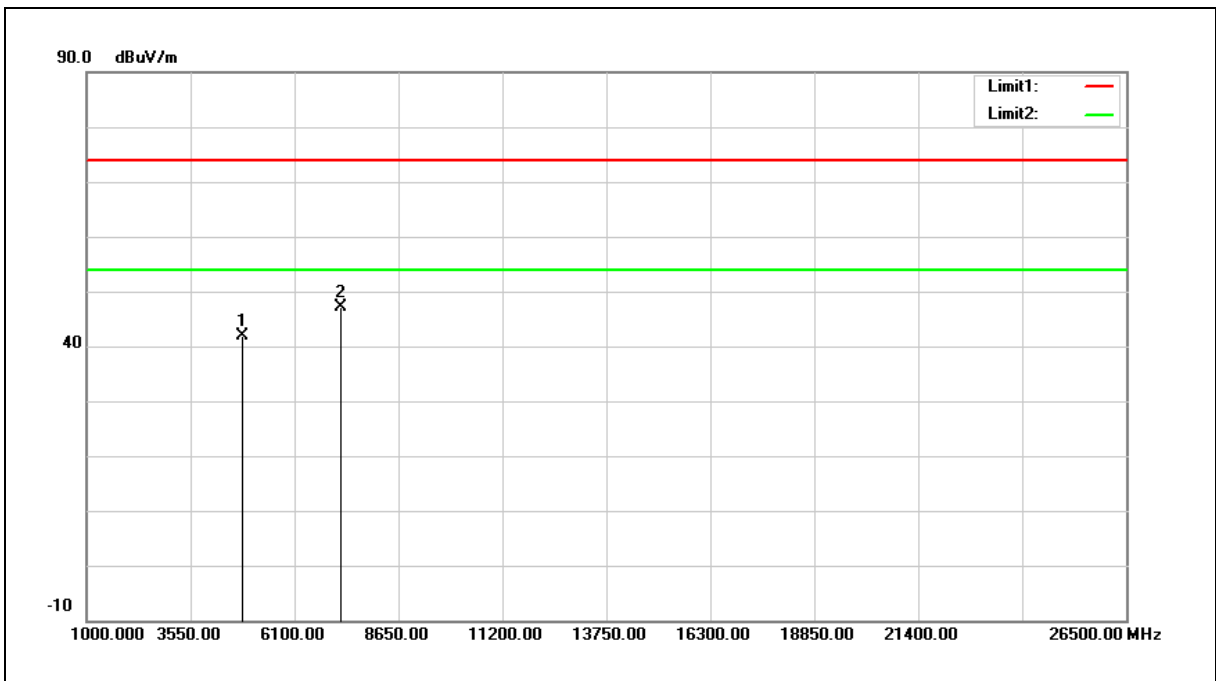
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	35.97	5.88	41.85	74.00	-32.15	peak
2	7236.000	34.66	12.42	47.08	74.00	-26.92	peak

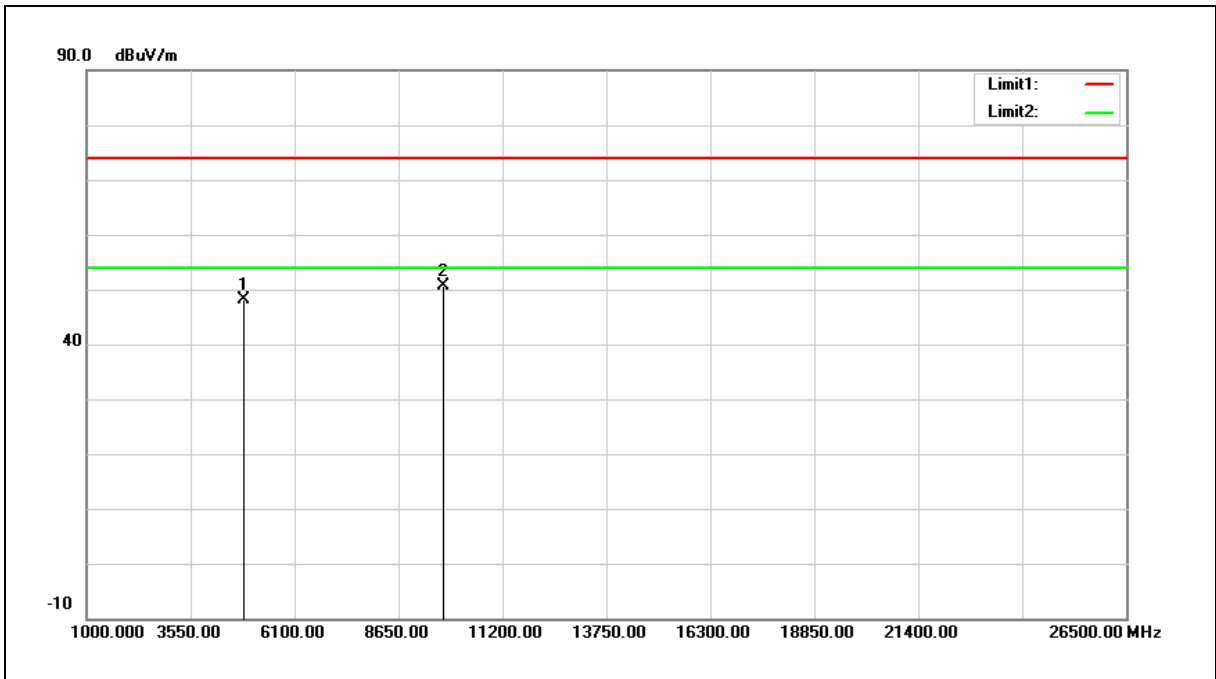
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	42.20	6.03	48.23	74.00	-25.77	peak
2	9748.000	34.80	15.74	50.54	74.00	-23.46	peak

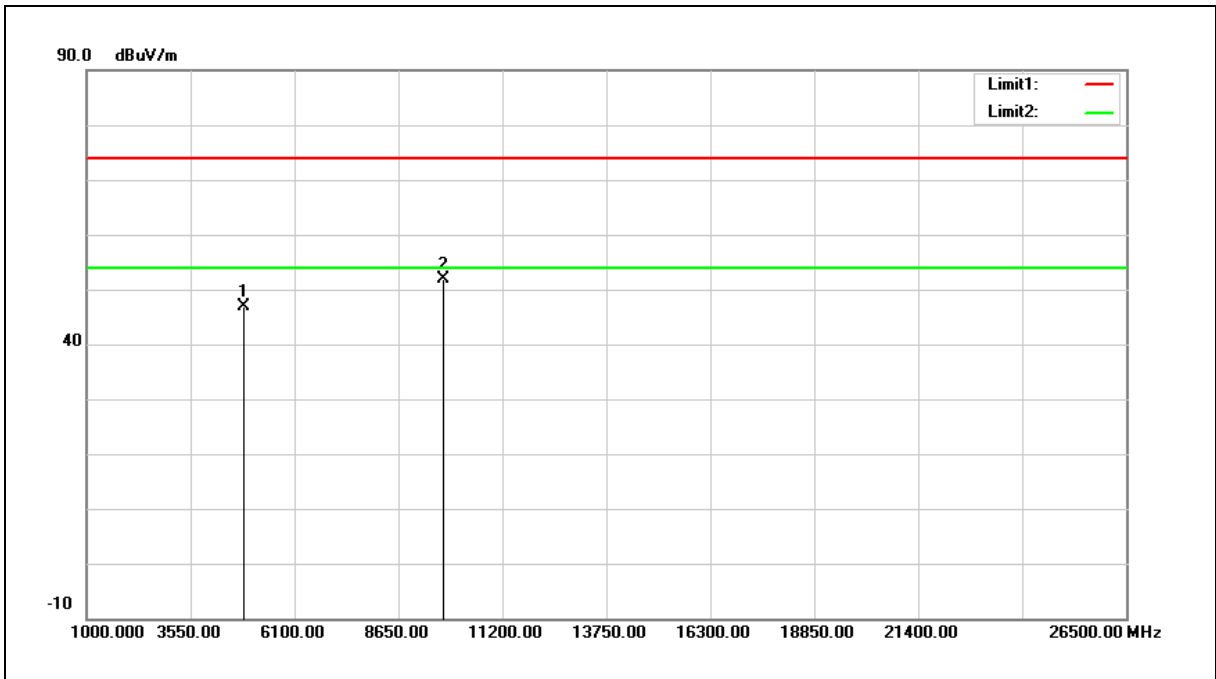
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	40.76	6.03	46.79	74.00	-27.21	peak
2	9748.000	36.16	15.74	51.90	74.00	-22.10	peak

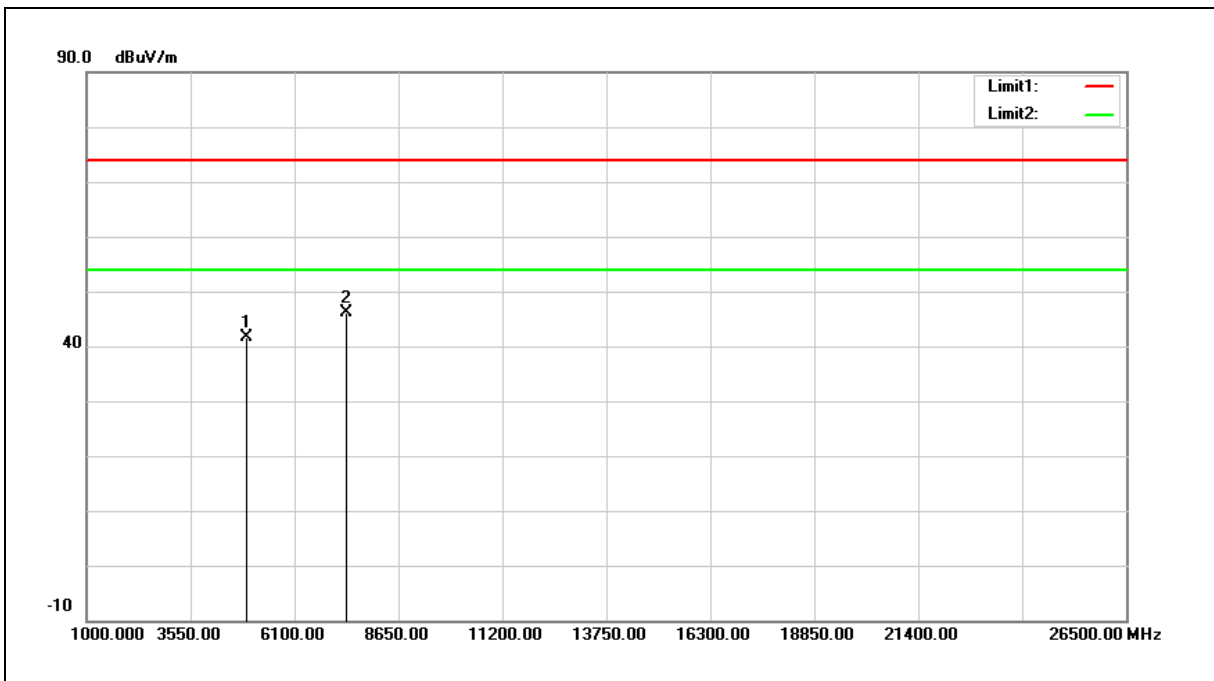
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	35.42	6.18	41.60	74.00	-32.40	peak
2	7386.000	33.24	12.93	46.17	74.00	-27.83	peak

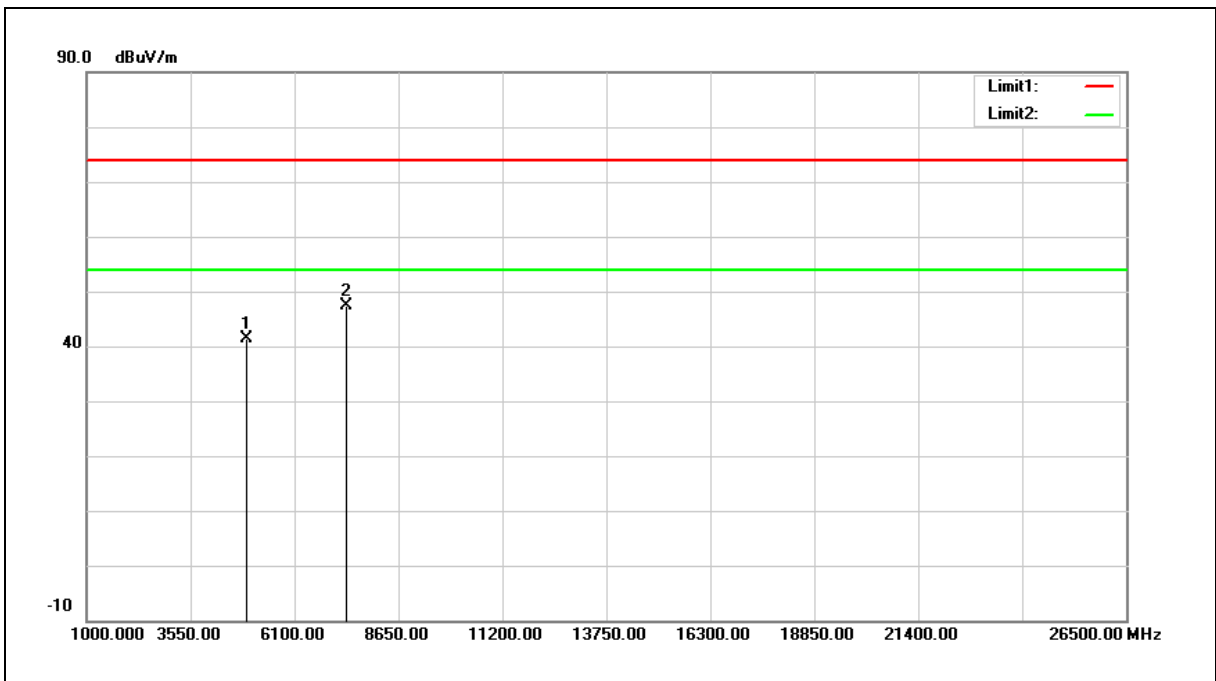
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	35.27	6.18	41.45	74.00	-32.55	peak
2	7386.000	34.40	12.93	47.33	74.00	-26.67	peak

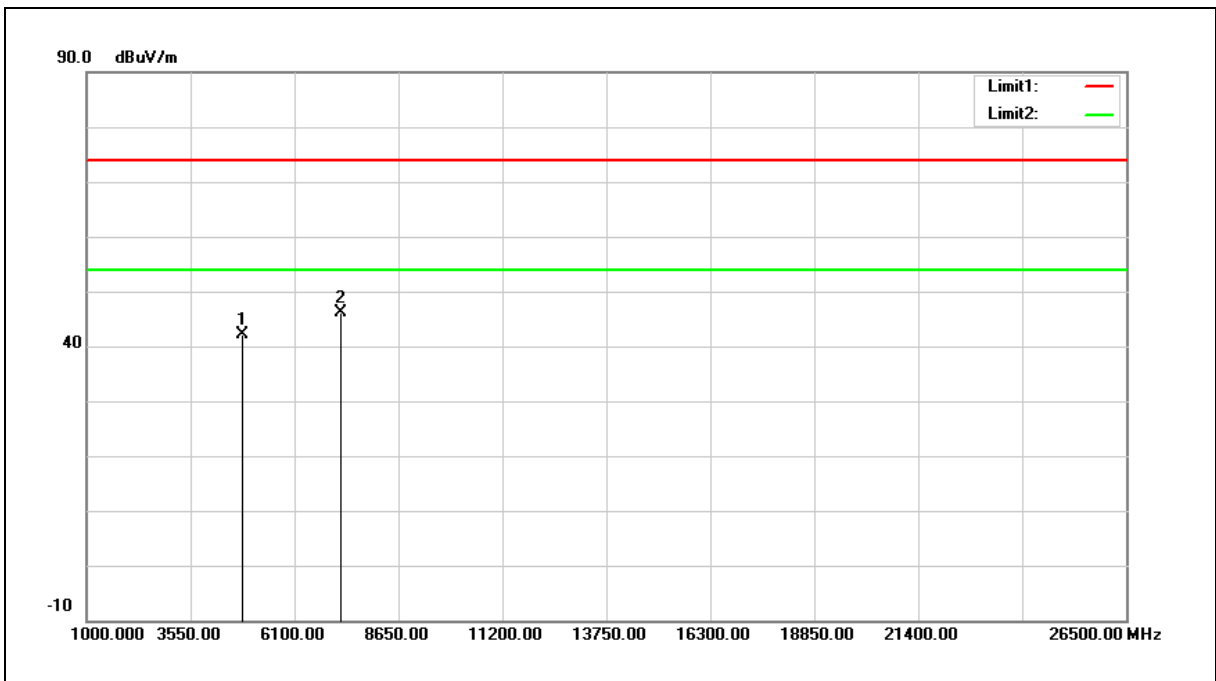
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	36.22	5.97	42.19	74.00	-31.81	peak
2	7236.000	33.64	12.48	46.12	74.00	-27.88	peak

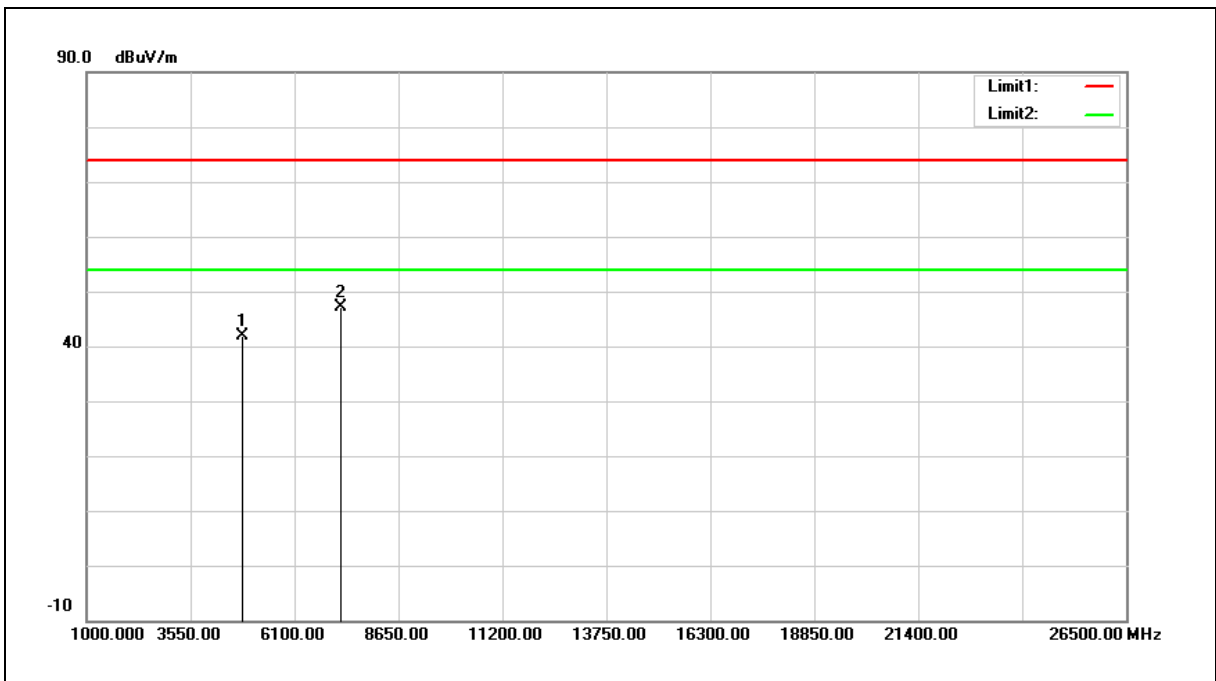
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	35.88	5.97	41.85	74.00	-32.15	peak
2	7236.000	34.68	12.48	47.16	74.00	-26.84	peak

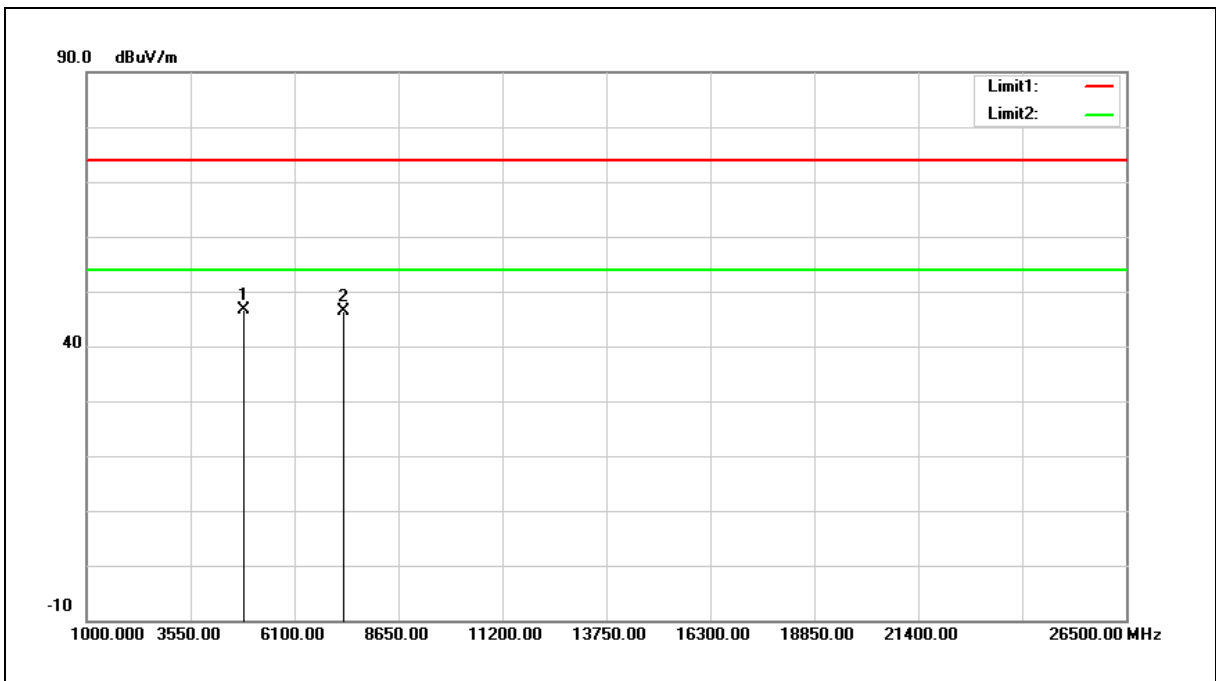
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	40.51	6.12	46.63	74.00	-27.37	peak
2	7311.000	33.64	12.73	46.37	74.00	-27.63	peak

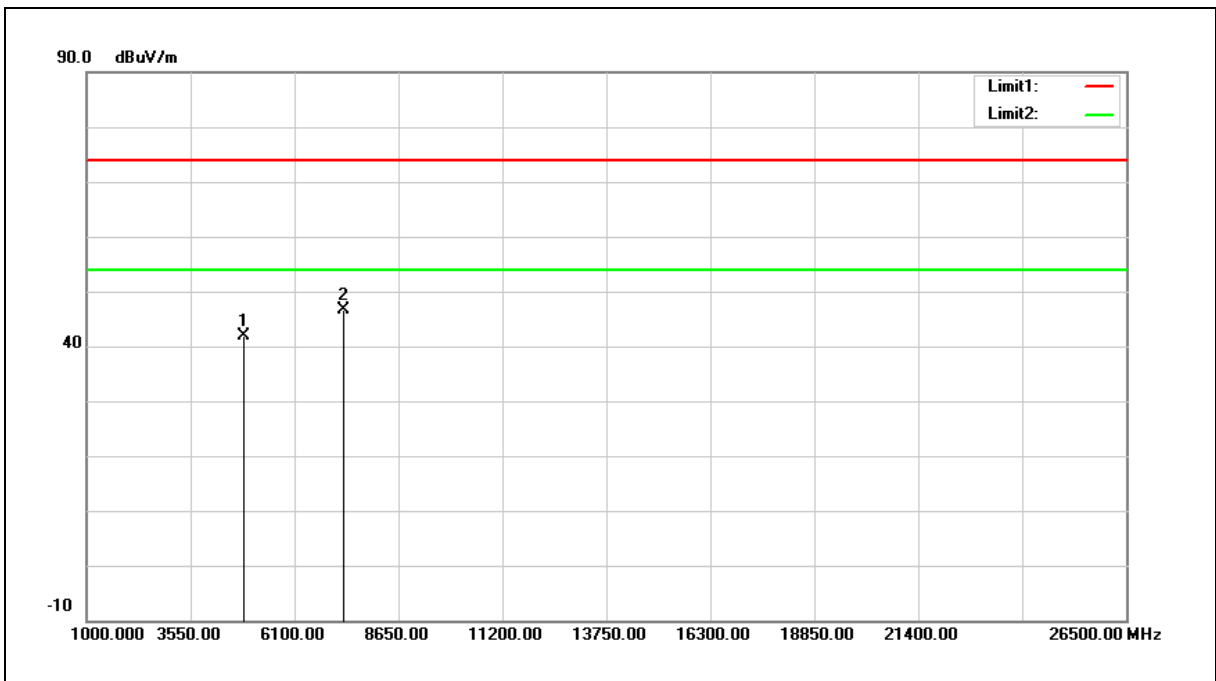
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4872.000	35.71	6.12	41.83	74.00	-32.17	peak
2	7311.000	33.96	12.73	46.69	74.00	-27.31	peak

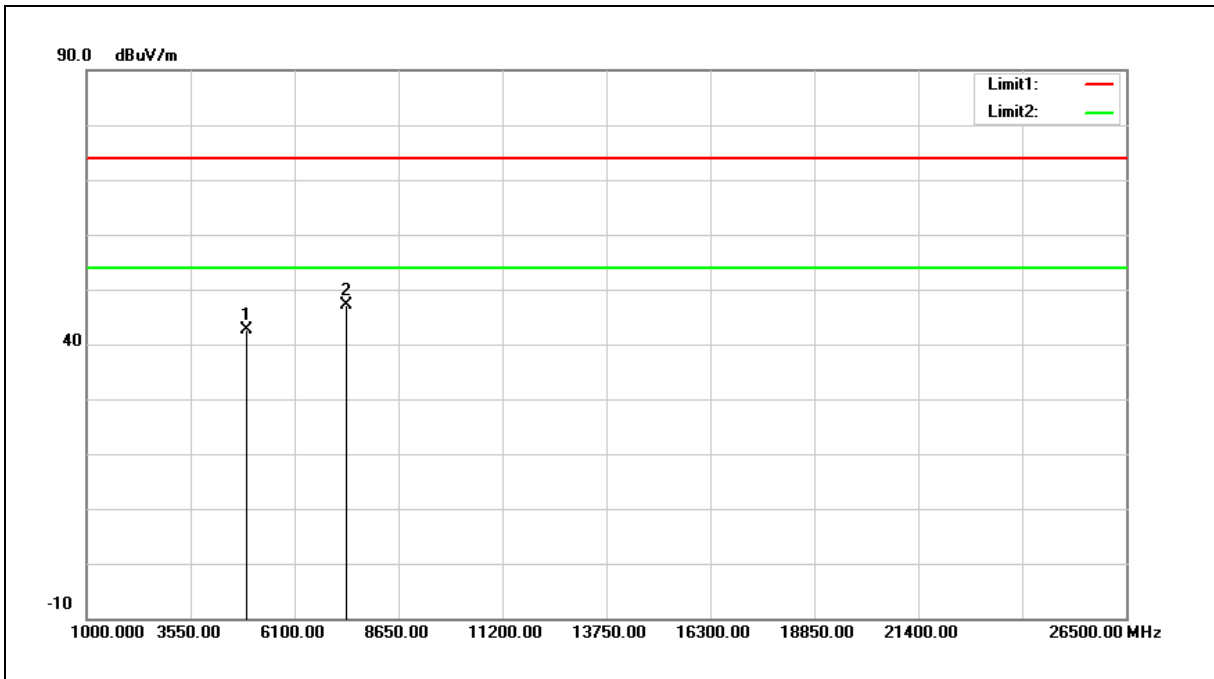
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	36.32	6.28	42.60	74.00	-31.40	peak
2	7386.000	34.19	12.99	47.18	74.00	-26.82	peak

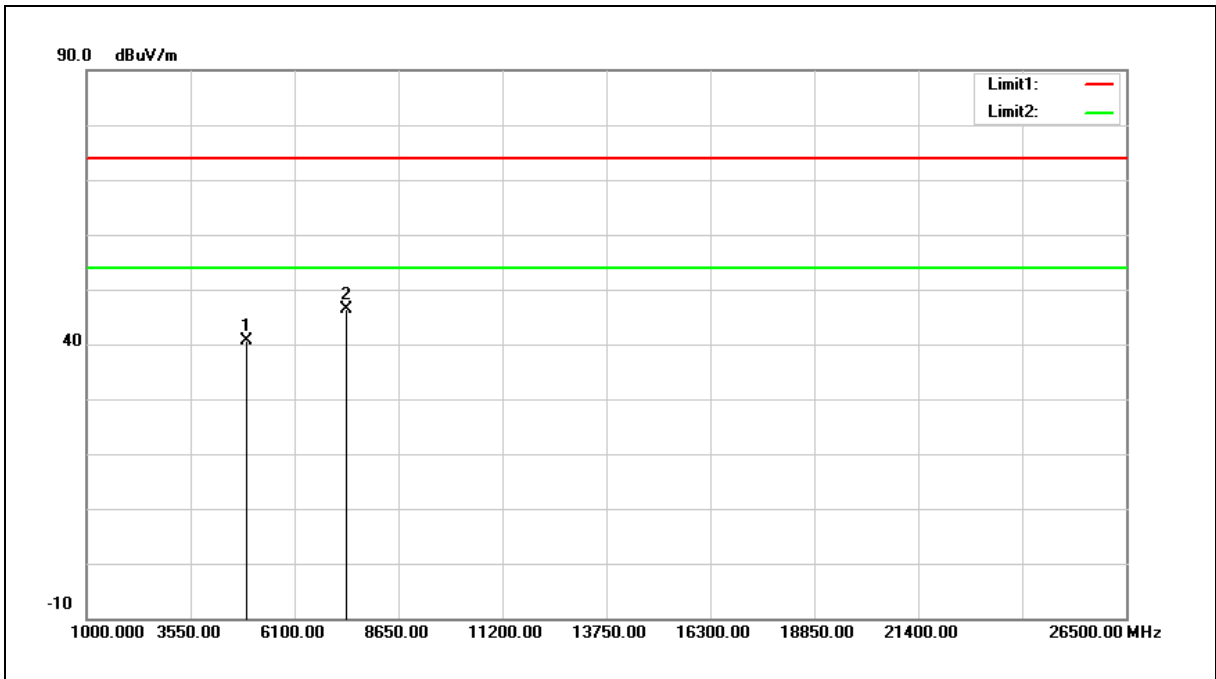
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.46	6.28	40.74	74.00	-33.26	peak
2	7386.000	33.40	12.99	46.39	74.00	-27.61	peak

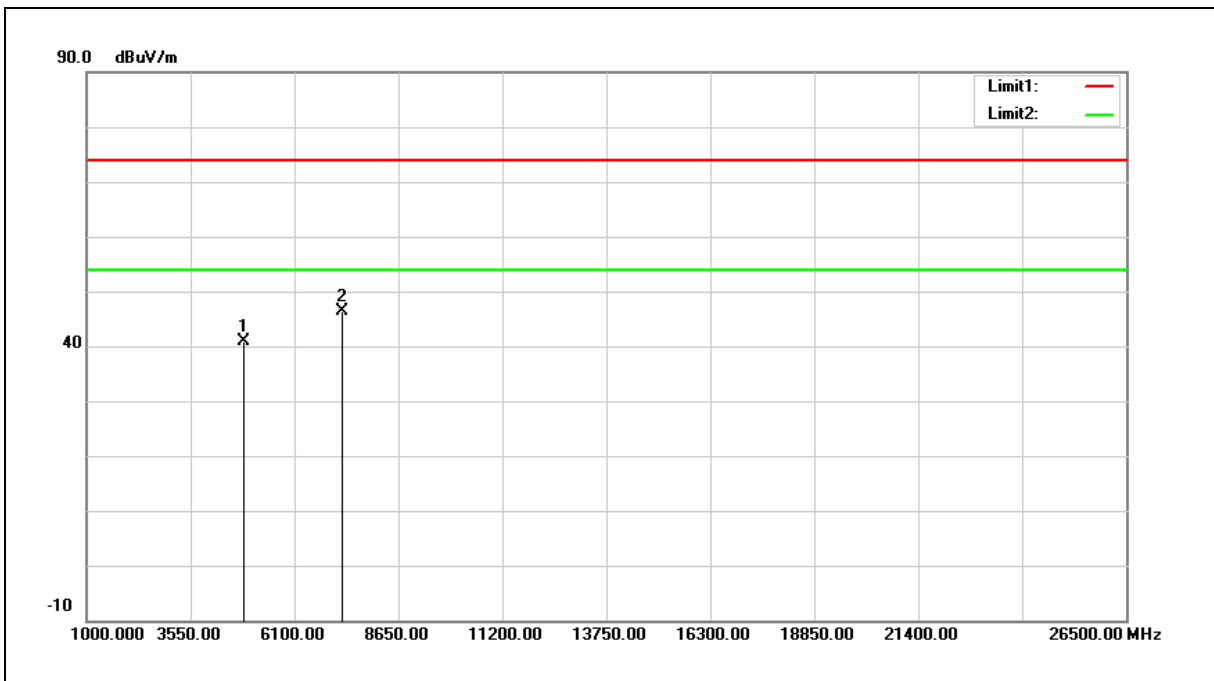
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	34.82	6.04	40.86	74.00	-33.14	peak
2	7266.000	33.79	12.59	46.38	74.00	-27.62	peak

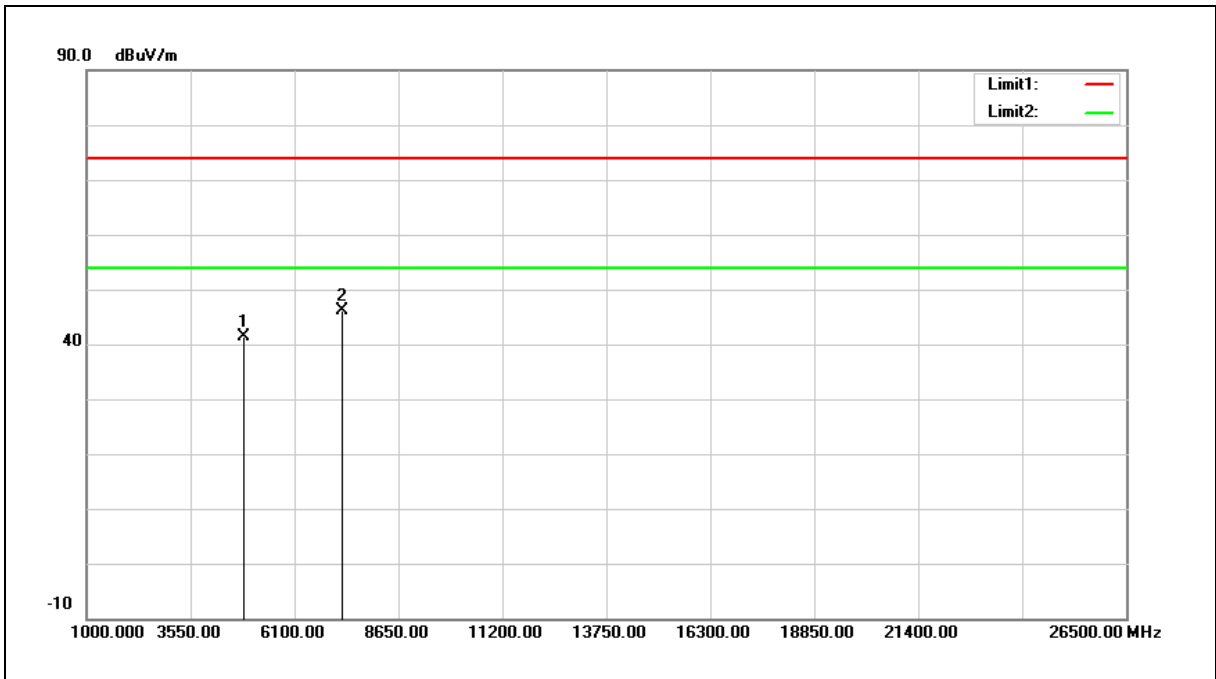
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	35.30	6.04	41.34	74.00	-32.66	peak
2	7266.000	33.53	12.59	46.12	74.00	-27.88	peak

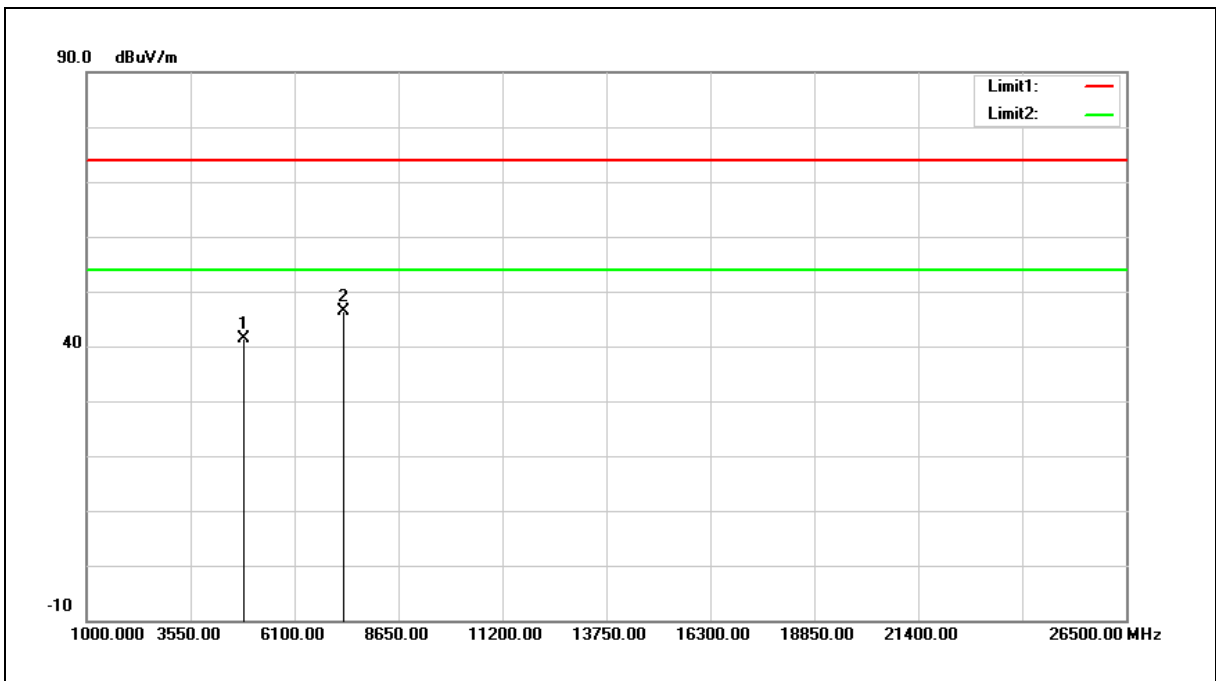
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	35.18	6.12	41.30	74.00	-32.70	peak
2	7311.000	33.56	12.73	46.29	74.00	-27.71	peak

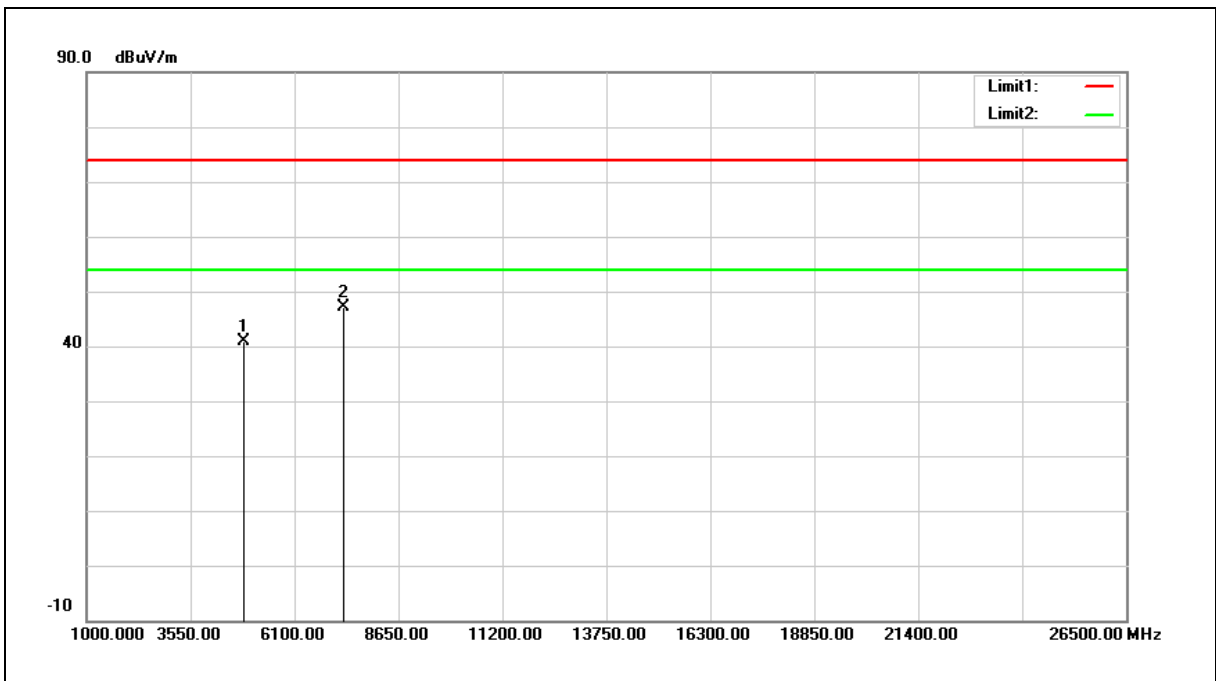
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.73	6.12	40.85	74.00	-33.15	peak
2	7311.000	34.32	12.73	47.05	74.00	-26.95	peak

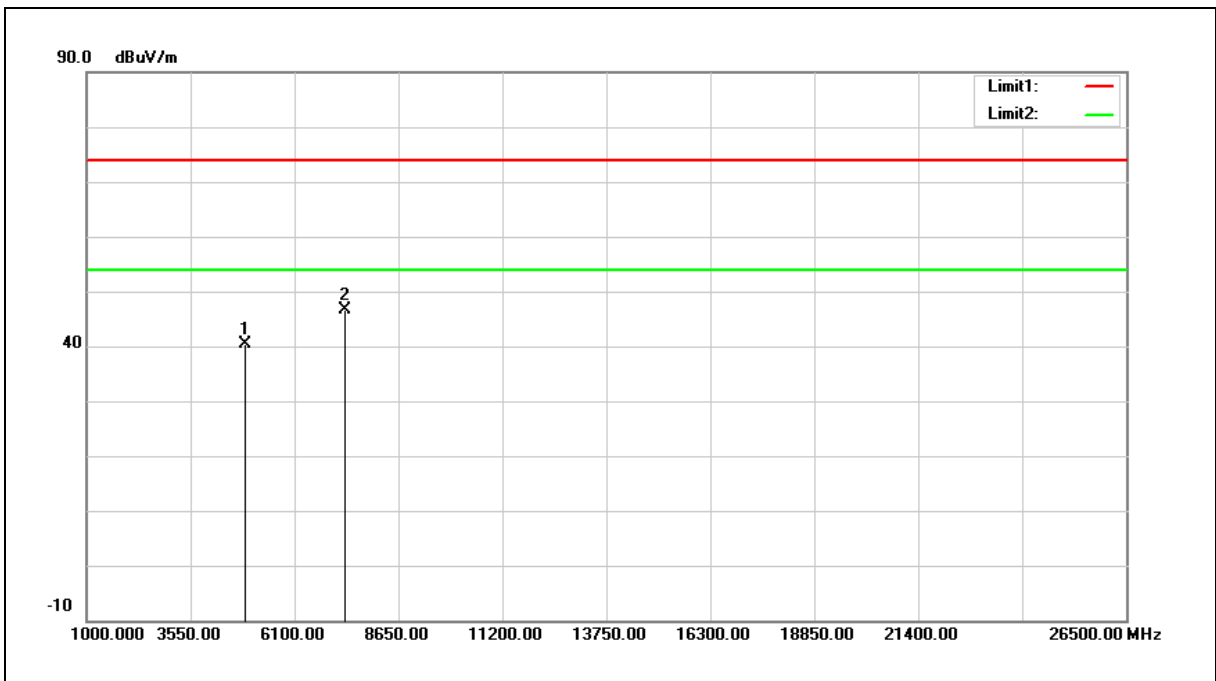
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	34.13	6.21	40.34	74.00	-33.66	peak
2	7356.000	33.76	12.89	46.65	74.00	-27.35	peak

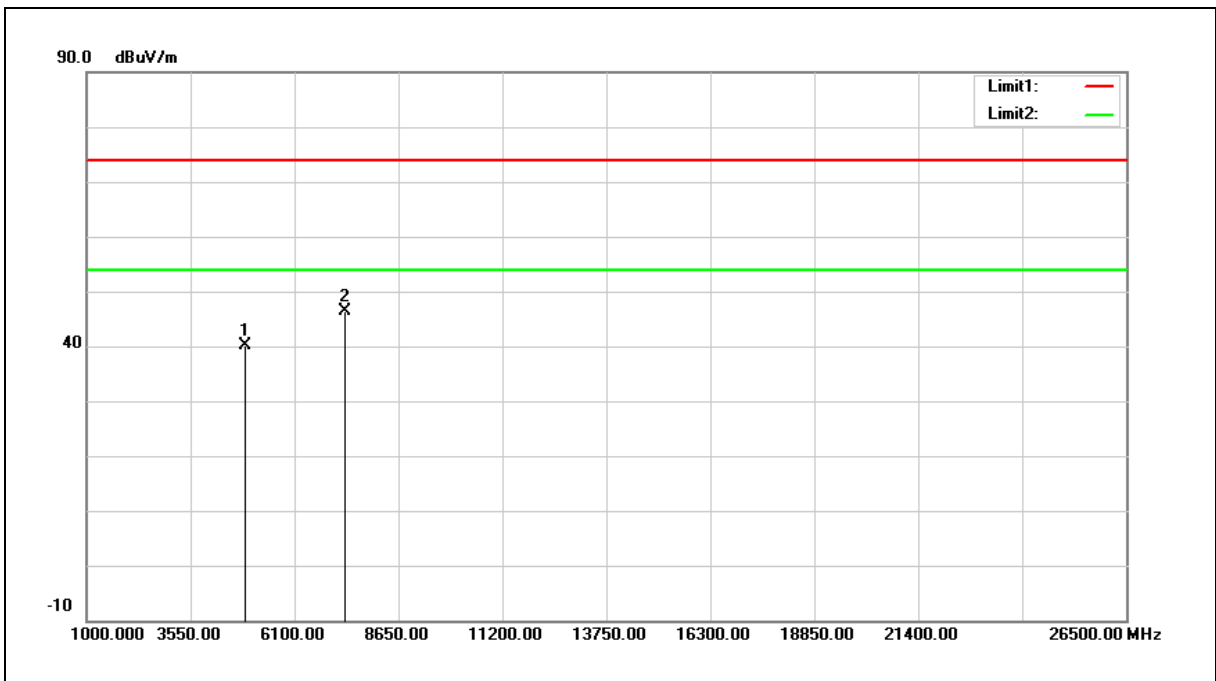
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	33.88	6.21	40.09	74.00	-33.91	peak
2	7356.000	33.38	12.89	46.27	74.00	-27.73	peak

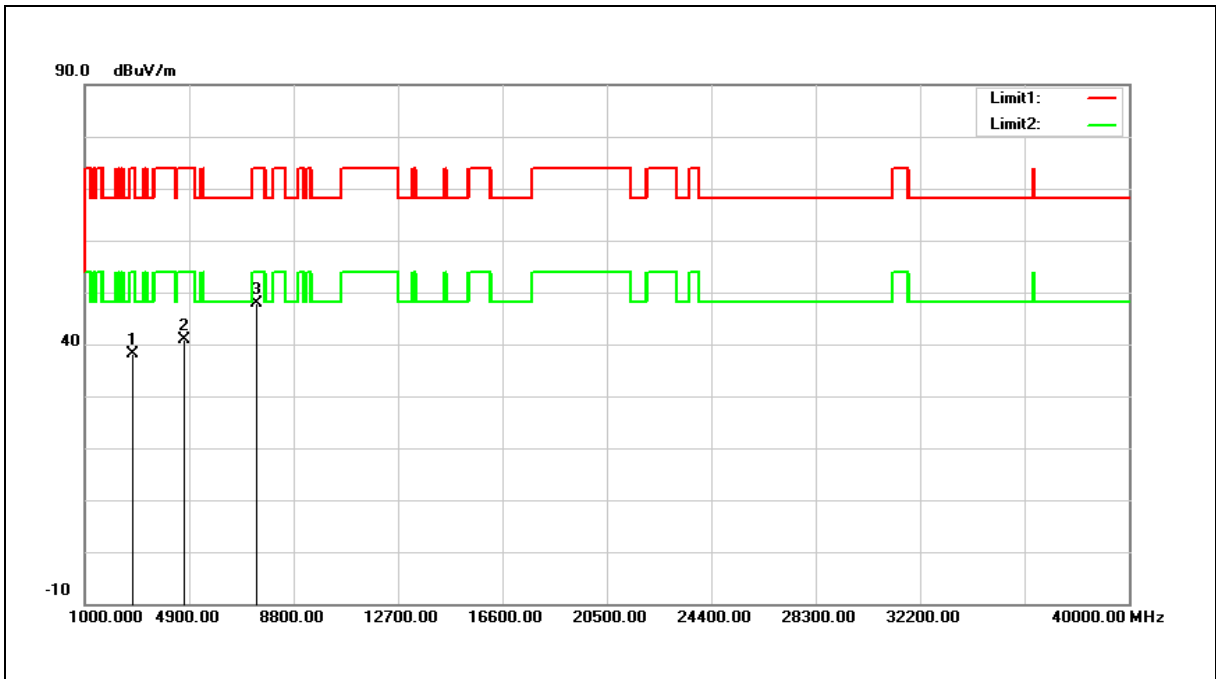
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Mode:	Simultaneous Transmitting (WLAN 5 GHz + WLAN 2.4 GHz)	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2785.000	37.62	0.52	38.14	74.00	-35.86	peak
2	4689.000	35.21	5.56	40.77	74.00	-33.23	peak
3	7426.000	34.64	13.13	47.77	74.00	-26.23	peak

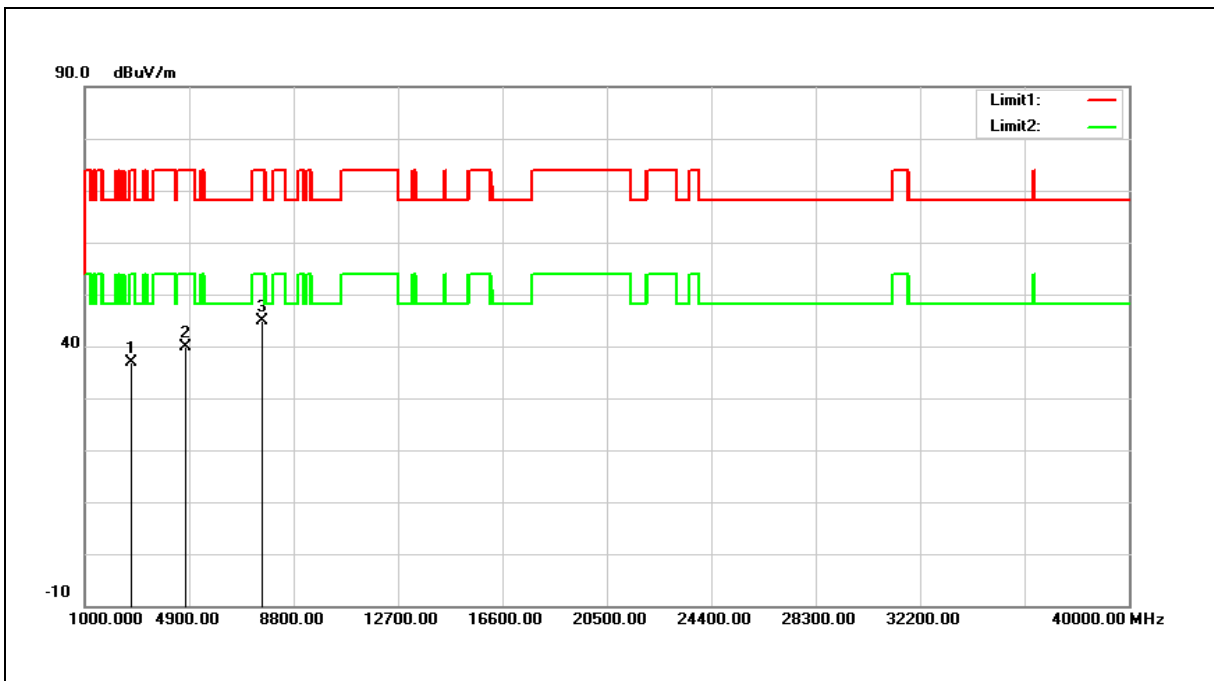
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Mode:	Simultaneous Transmitting (WLAN 5 GHz + WLAN 2.4 GHz)	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2751.000	36.47	0.42	36.89	74.00	-37.11	peak
2	4774.000	33.96	5.81	39.77	74.00	-34.23	peak
3	7630.000	31.35	13.65	45.00	74.00	-29.00	peak

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

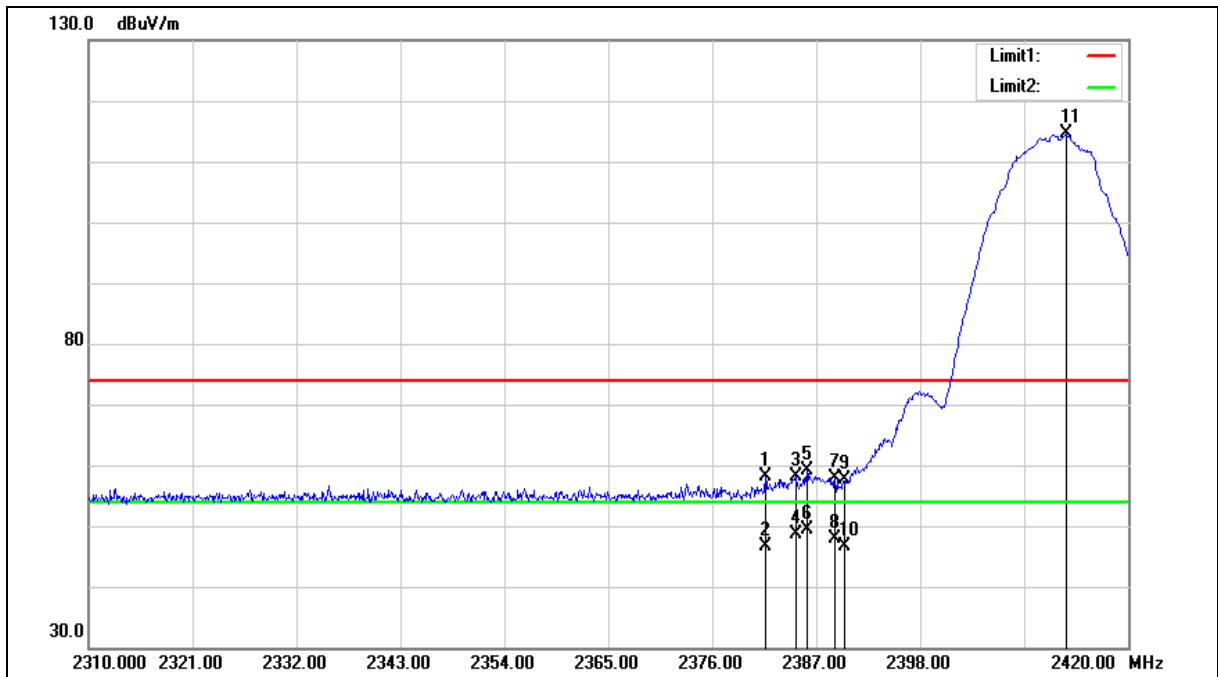
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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



Band Edge

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2381.610	58.97	-0.87	58.10	74.00	-15.90	peak
2	2381.610	47.49	-0.87	46.62	54.00	-7.38	AVG
3	2384.800	58.91	-0.85	58.06	74.00	-15.94	peak
4	2384.800	49.55	-0.85	48.70	54.00	-5.30	AVG
5	2386.010	59.90	-0.85	59.05	74.00	-14.95	peak
6	2386.010	50.12	-0.85	49.27	54.00	-4.73	AVG
7	2388.980	58.62	-0.84	57.78	74.00	-16.22	peak
8	2388.980	48.75	-0.84	47.91	54.00	-6.09	AVG
9	2390.000	58.35	-0.82	57.53	74.00	-16.47	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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2390.000	47.57	-0.82	46.75	54.00	-7.25	AVG
11	2413.510	115.25	-0.70	114.55	--	--	peak

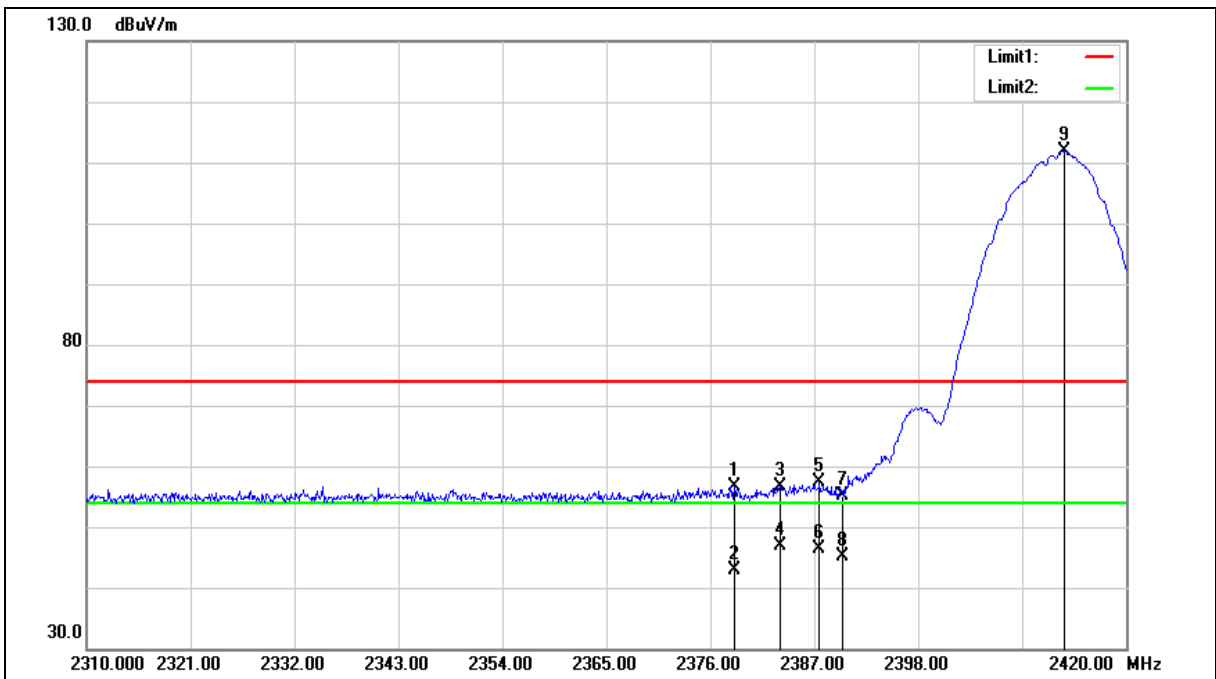
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2378.530	57.59	-0.88	56.71	74.00	-17.29	peak
2	2378.530	43.70	-0.88	42.82	54.00	-11.18	AVG
3	2383.370	57.57	-0.87	56.70	74.00	-17.30	peak
4	2383.370	47.81	-0.87	46.94	54.00	-7.06	AVG
5	2387.550	58.23	-0.84	57.39	74.00	-16.61	peak
6	2387.550	47.16	-0.84	46.32	54.00	-7.68	AVG
7	2390.000	56.05	-0.82	55.23	74.00	-18.77	peak
8	2390.000	45.84	-0.82	45.02	54.00	-8.98	AVG
9	2413.400	112.56	-0.70	111.86	--	--	peak

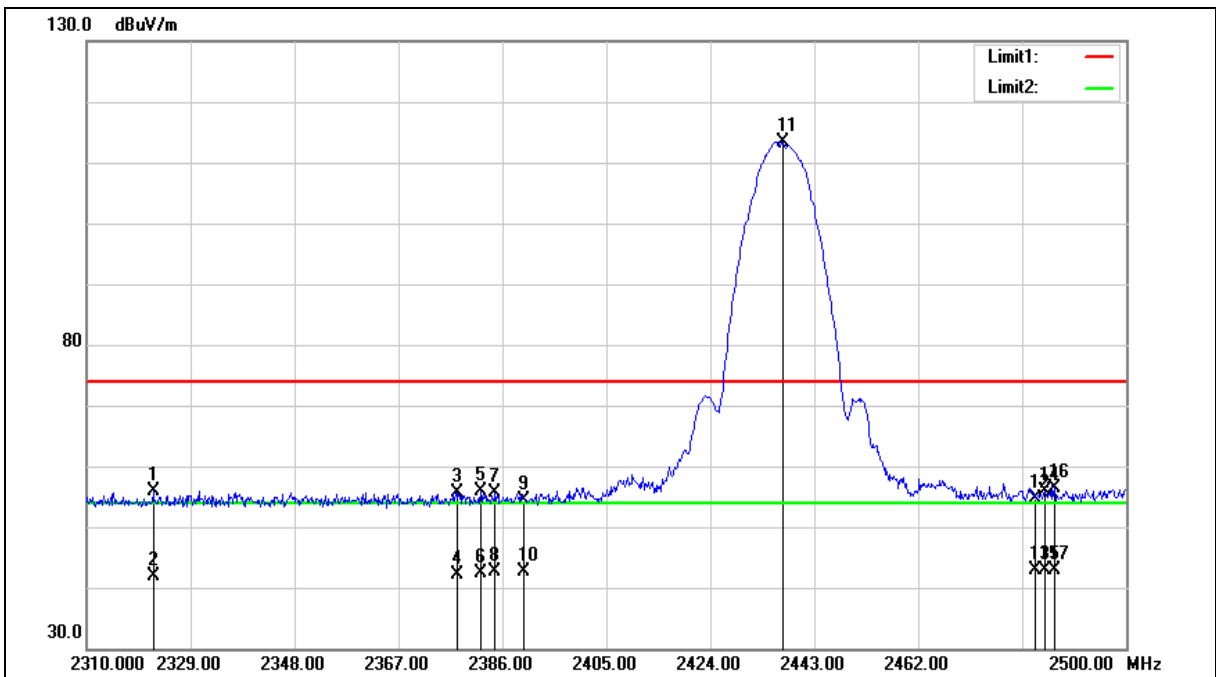
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2322.160	56.99	-1.16	55.83	74.00	-18.17	peak
2	2322.160	43.13	-1.16	41.97	54.00	-12.03	AVG
3	2377.640	56.55	-0.90	55.65	74.00	-18.35	peak
4	2377.640	43.05	-0.90	42.15	54.00	-11.85	AVG
5	2382.010	56.64	-0.87	55.77	74.00	-18.23	peak
6	2382.010	43.18	-0.87	42.31	54.00	-11.69	AVG
7	2384.670	56.52	-0.85	55.67	74.00	-18.33	peak
8	2384.670	43.55	-0.85	42.70	54.00	-11.30	AVG
9	2390.000	55.30	-0.82	54.48	74.00	-19.52	peak
10	2390.000	43.35	-0.82	42.53	54.00	-11.47	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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2437.300	113.98	-0.58	113.40	--	--	peak
12	2483.500	55.03	-0.35	54.68	74.00	-19.32	peak
13	2483.500	43.35	-0.35	43.00	54.00	-11.00	AVG
14	2485.180	56.12	-0.34	55.78	74.00	-18.22	peak
15	2485.180	43.31	-0.34	42.97	54.00	-11.03	AVG
16	2486.890	56.62	-0.32	56.30	74.00	-17.70	peak
17	2486.890	43.28	-0.32	42.96	54.00	-11.04	AVG

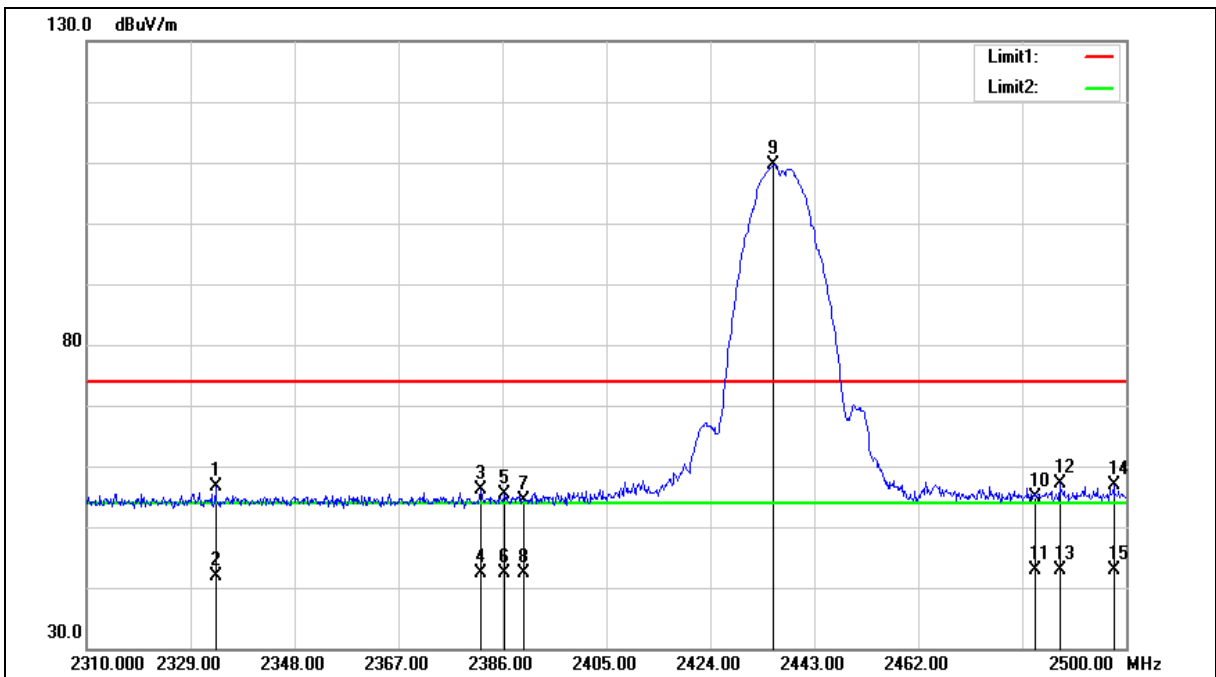
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2333.560	57.68	-1.11	56.57	74.00	-17.43	peak
2	2333.560	43.06	-1.11	41.95	54.00	-12.05	AVG
3	2382.010	56.88	-0.87	56.01	74.00	-17.99	peak
4	2382.010	43.13	-0.87	42.26	54.00	-11.74	AVG
5	2386.380	56.12	-0.85	55.27	74.00	-18.73	peak
6	2386.380	43.17	-0.85	42.32	54.00	-11.68	AVG
7	2390.000	55.20	-0.82	54.38	74.00	-19.62	peak
8	2390.000	43.11	-0.82	42.29	54.00	-11.71	AVG
9	2435.590	110.22	-0.59	109.63	--	--	peak
10	2483.500	55.34	-0.35	54.99	74.00	-19.01	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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2483.500	43.18	-0.35	42.83	54.00	-11.17	AVG
12	2487.840	57.37	-0.32	57.05	74.00	-16.95	peak
13	2487.840	43.23	-0.32	42.91	54.00	-11.09	AVG
14	2497.720	57.12	-0.27	56.85	74.00	-17.15	peak
15	2497.720	43.18	-0.27	42.91	54.00	-11.09	AVG

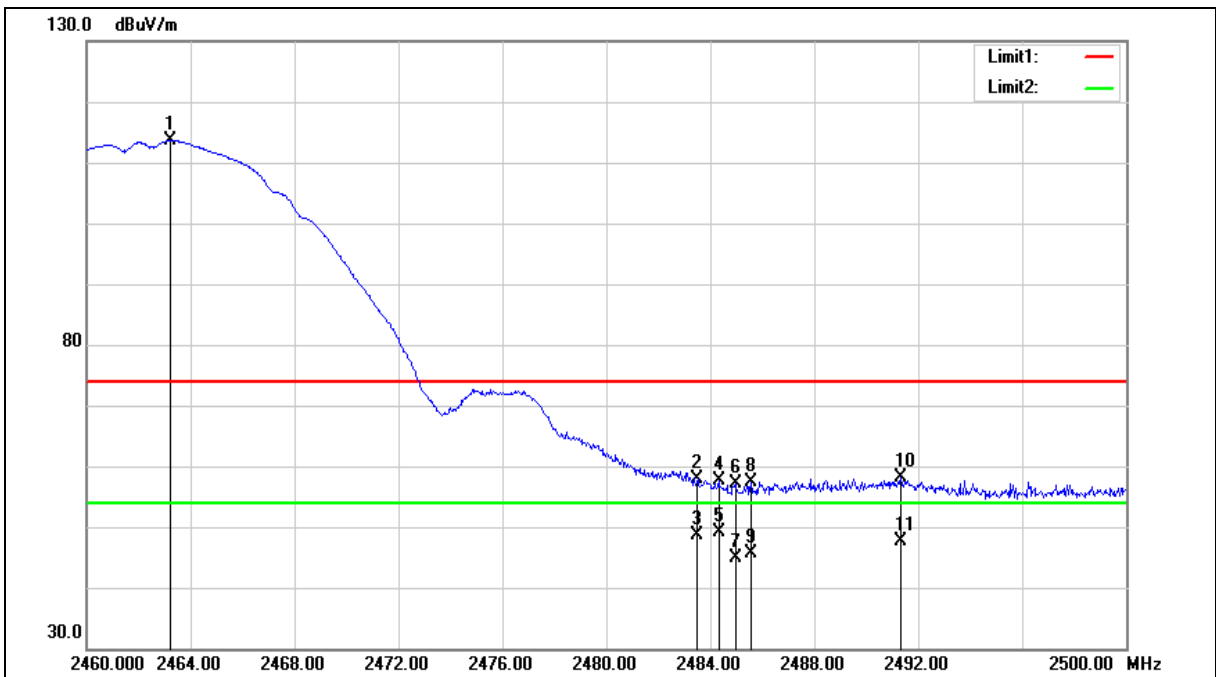
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2463.200	114.06	-0.45	113.61	--	--	peak
2	2483.500	58.24	-0.35	57.89	74.00	-16.11	peak
3	2483.500	48.90	-0.35	48.55	54.00	-5.45	AVG
4	2484.320	57.85	-0.34	57.51	74.00	-16.49	peak
5	2484.320	49.41	-0.34	49.07	54.00	-4.93	AVG
6	2484.960	57.50	-0.34	57.16	74.00	-16.84	peak
7	2484.960	45.12	-0.34	44.78	54.00	-9.22	AVG
8	2485.560	57.73	-0.34	57.39	74.00	-16.61	peak
9	2485.560	46.09	-0.34	45.75	54.00	-8.25	AVG
10	2491.320	58.48	-0.31	58.17	74.00	-15.83	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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2491.320	47.95	-0.31	47.64	54.00	-6.36	AVG

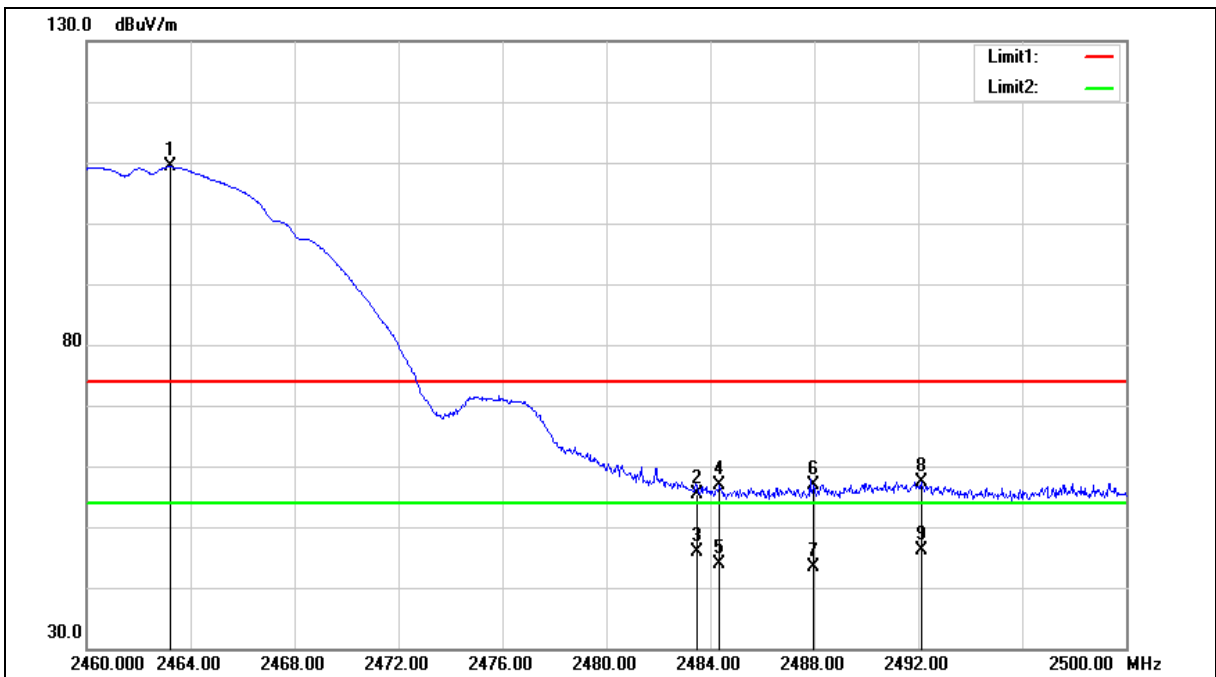
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2463.200	109.76	-0.45	109.31	--	--	peak
2	2483.500	55.85	-0.35	55.50	74.00	-18.50	peak
3	2483.500	46.20	-0.35	45.85	54.00	-8.15	AVG
4	2484.360	57.24	-0.34	56.90	74.00	-17.10	peak
5	2484.360	44.29	-0.34	43.95	54.00	-10.05	AVG
6	2487.960	57.29	-0.32	56.97	74.00	-17.03	peak
7	2487.960	43.68	-0.32	43.36	54.00	-10.64	AVG
8	2492.120	57.60	-0.30	57.30	74.00	-16.70	peak
9	2492.120	46.53	-0.30	46.23	54.00	-7.77	AVG

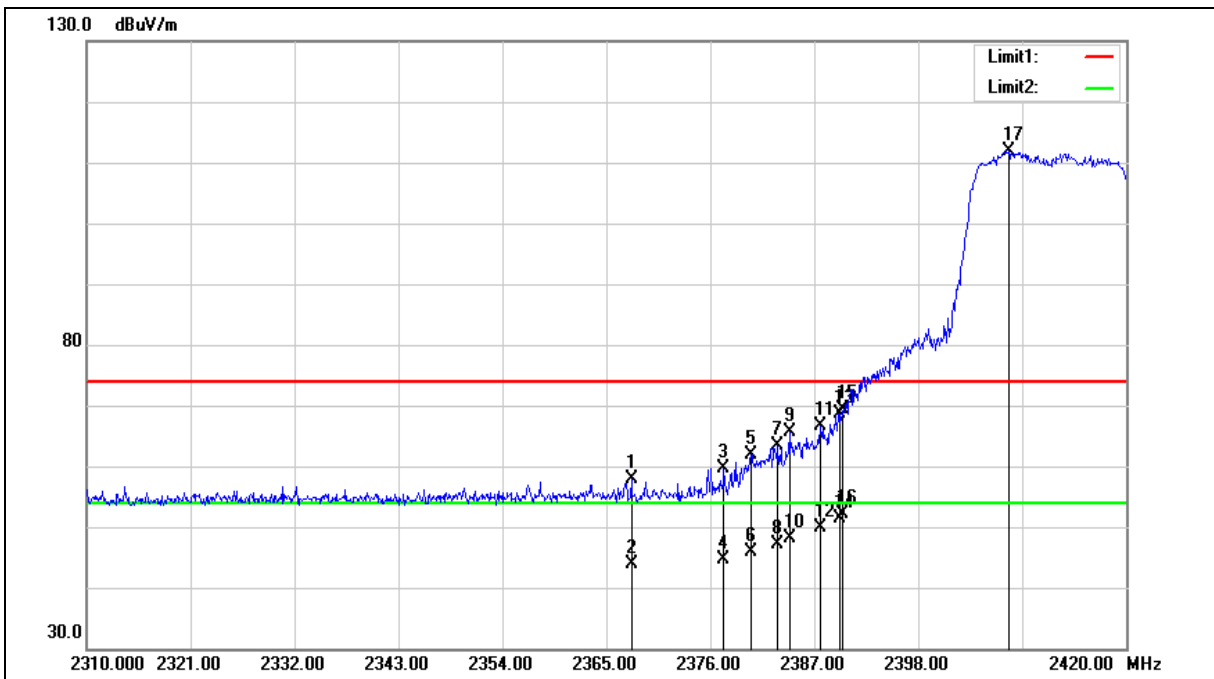
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2367.640	58.72	-0.94	57.78	74.00	-16.22	peak
2	2367.640	44.75	-0.94	43.81	54.00	-10.19	AVG
3	2377.430	60.53	-0.90	59.63	74.00	-14.37	peak
4	2377.430	45.49	-0.90	44.59	54.00	-9.41	AVG
5	2380.290	62.79	-0.88	61.91	74.00	-12.09	peak
6	2380.290	46.64	-0.88	45.76	54.00	-8.24	AVG
7	2383.150	64.17	-0.87	63.30	74.00	-10.70	peak
8	2383.150	47.89	-0.87	47.02	54.00	-6.98	AVG
9	2384.360	66.58	-0.85	65.73	74.00	-8.27	peak
10	2384.360	48.94	-0.85	48.09	54.00	-5.91	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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2387.660	67.47	-0.84	66.63	74.00	-7.37	peak
12	2387.660	50.74	-0.84	49.90	54.00	-4.10	AVG
13	2389.640	69.50	-0.83	68.67	74.00	-5.33	peak
14	2389.640	52.26	-0.83	51.43	54.00	-2.57	AVG
15	2390.000	70.09	-0.82	69.27	74.00	-4.73	peak
16	2390.000	53.00	-0.82	52.18	54.00	-1.82	AVG
17	2407.570	112.59	-0.73	111.86	--	--	peak

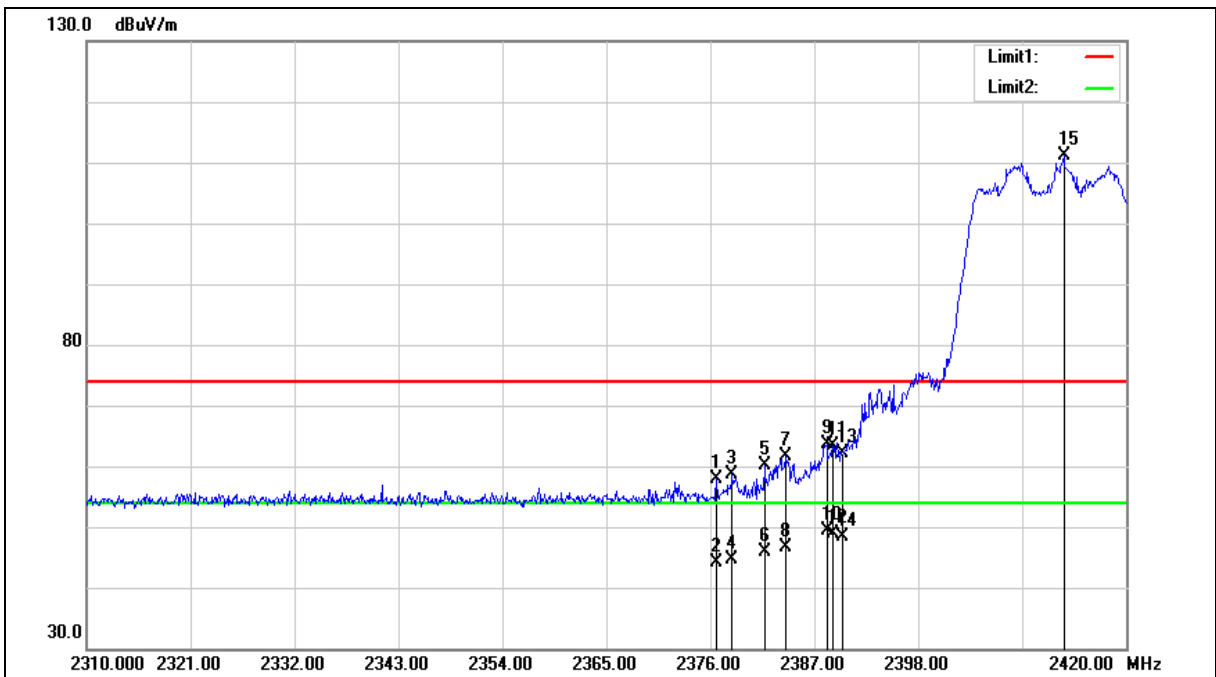
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2376.660	58.81	-0.90	57.91	74.00	-16.09	peak
2	2376.660	45.02	-0.90	44.12	54.00	-9.88	AVG
3	2378.310	59.45	-0.88	58.57	74.00	-15.43	peak
4	2378.310	45.48	-0.88	44.60	54.00	-9.40	AVG
5	2381.720	60.91	-0.87	60.04	74.00	-13.96	peak
6	2381.720	46.79	-0.87	45.92	54.00	-8.08	AVG
7	2384.030	62.38	-0.85	61.53	74.00	-12.47	peak
8	2384.030	47.37	-0.85	46.52	54.00	-7.48	AVG
9	2388.320	64.50	-0.84	63.66	74.00	-10.34	peak
10	2388.320	50.11	-0.84	49.27	54.00	-4.73	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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2388.980	64.25	-0.84	63.41	74.00	-10.59	peak
12	2388.980	49.82	-0.84	48.98	54.00	-5.02	AVG
13	2390.000	63.05	-0.82	62.23	74.00	-11.77	peak
14	2390.000	49.09	-0.82	48.27	54.00	-5.73	AVG
15	2413.400	111.87	-0.70	111.17	--	--	peak

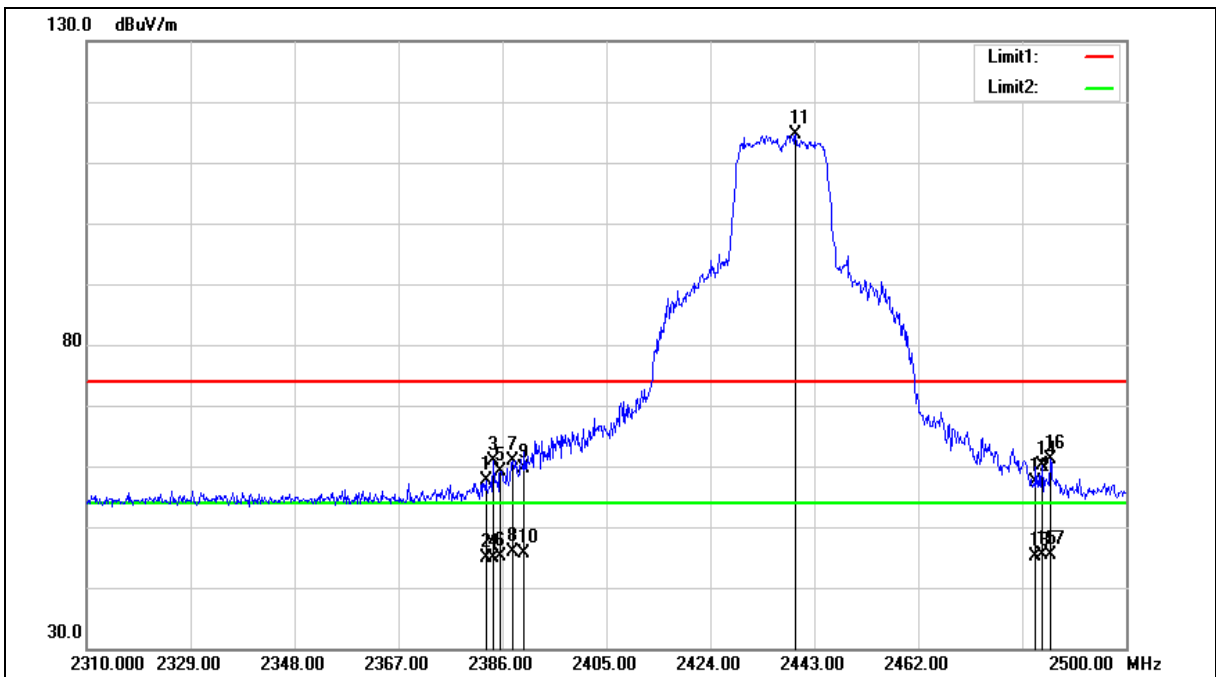
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2382.960	58.40	-0.87	57.53	74.00	-16.47	peak
2	2382.960	45.64	-0.87	44.77	54.00	-9.23	AVG
3	2384.290	61.62	-0.85	60.77	74.00	-13.23	peak
4	2384.290	45.75	-0.85	44.90	54.00	-9.10	AVG
5	2385.620	60.10	-0.85	59.25	74.00	-14.75	peak
6	2385.620	46.09	-0.85	45.24	54.00	-8.76	AVG
7	2387.900	61.78	-0.84	60.94	74.00	-13.06	peak
8	2387.900	46.83	-0.84	45.99	54.00	-8.01	AVG
9	2390.000	60.37	-0.82	59.55	74.00	-14.45	peak
10	2390.000	46.43	-0.82	45.61	54.00	-8.39	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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2439.580	115.14	-0.58	114.56	--	--	peak
12	2483.500	57.73	-0.35	57.38	74.00	-16.62	peak
13	2483.500	45.57	-0.35	45.22	54.00	-8.78	AVG
14	2484.610	60.48	-0.34	60.14	74.00	-13.86	peak
15	2484.610	45.84	-0.34	45.50	54.00	-8.50	AVG
16	2486.130	61.49	-0.33	61.16	74.00	-12.84	peak
17	2486.130	45.76	-0.33	45.43	54.00	-8.57	AVG

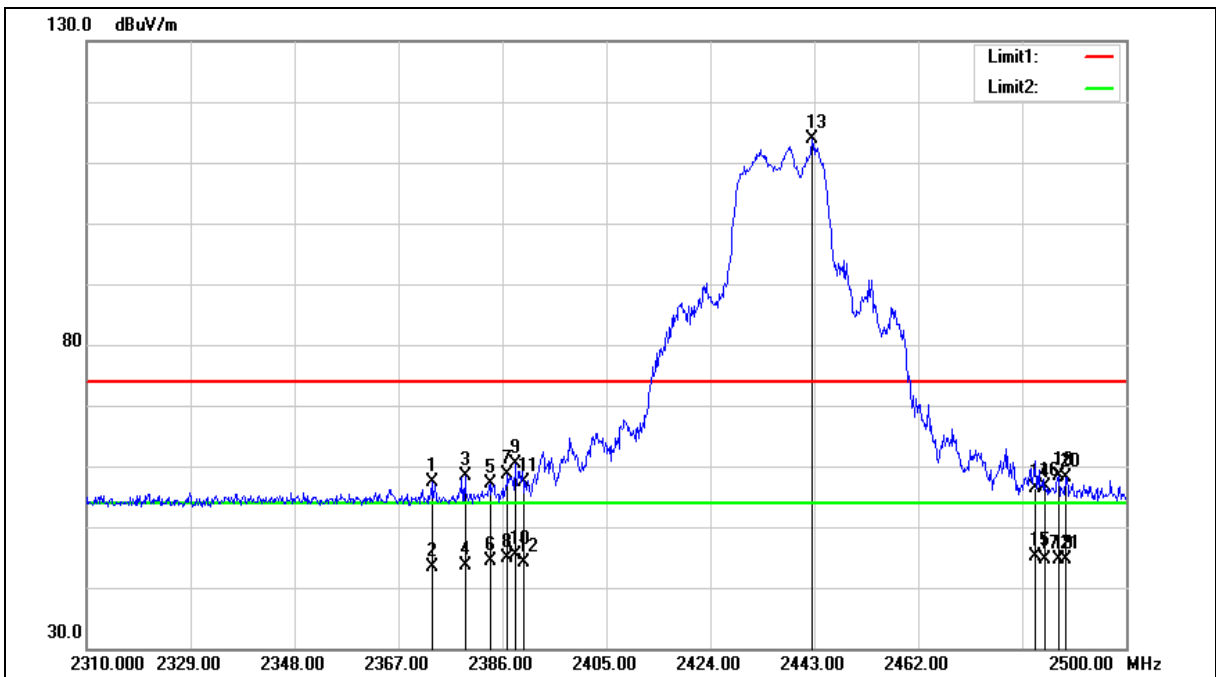
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2373.080	58.36	-0.91	57.45	74.00	-16.55	peak
2	2373.080	44.35	-0.91	43.44	54.00	-10.56	AVG
3	2379.160	59.24	-0.88	58.36	74.00	-15.64	peak
4	2379.160	44.58	-0.88	43.70	54.00	-10.30	AVG
5	2383.720	57.90	-0.86	57.04	74.00	-16.96	peak
6	2383.720	45.14	-0.86	44.28	54.00	-9.72	AVG
7	2386.950	59.50	-0.84	58.66	74.00	-15.34	peak
8	2386.950	45.69	-0.84	44.85	54.00	-9.15	AVG
9	2388.280	61.24	-0.84	60.40	74.00	-13.60	peak
10	2388.280	46.12	-0.84	45.28	54.00	-8.72	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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

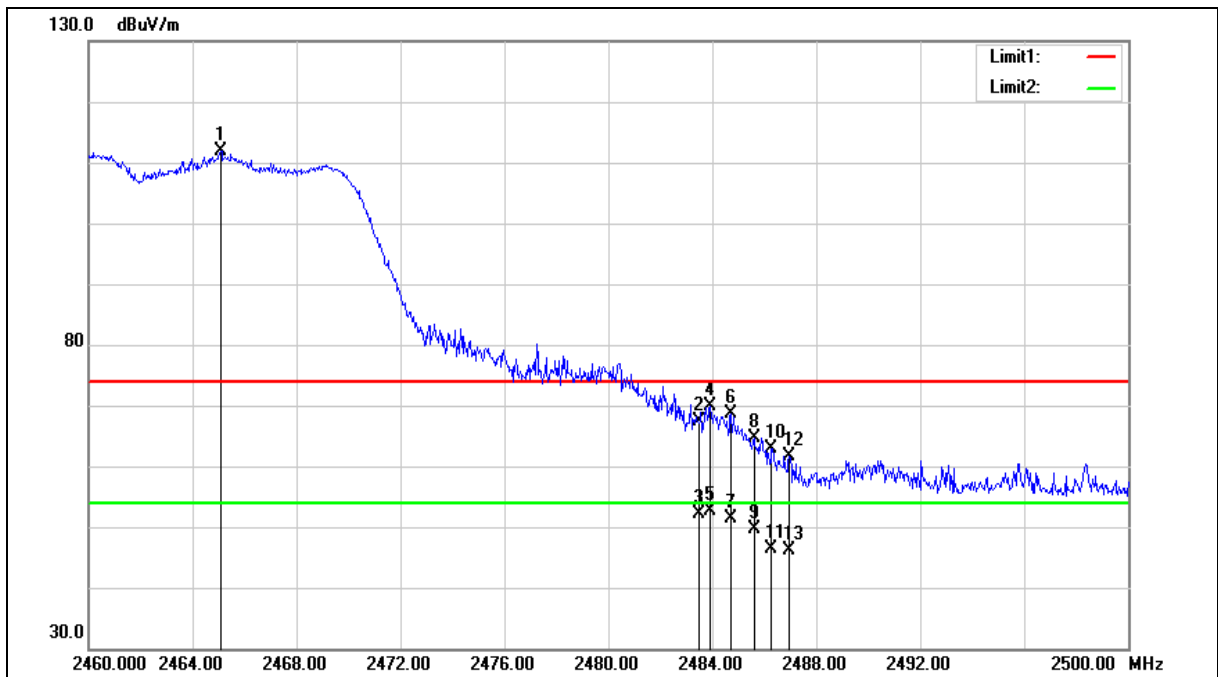
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2390.000	58.16	-0.82	57.34	74.00	-16.66	peak
12	2390.000	45.07	-0.82	44.25	54.00	-9.75	AVG
13	2442.620	114.35	-0.56	113.79	--	--	peak
14	2483.500	56.68	-0.35	56.33	74.00	-17.67	peak
15	2483.500	45.41	-0.35	45.06	54.00	-8.94	AVG
16	2485.180	56.97	-0.34	56.63	74.00	-17.37	peak
17	2485.180	44.94	-0.34	44.60	54.00	-9.40	AVG
18	2487.650	58.77	-0.32	58.45	74.00	-15.55	peak
19	2487.650	45.05	-0.32	44.73	54.00	-9.27	AVG
20	2488.980	58.42	-0.32	58.10	74.00	-15.90	peak
21	2488.980	44.96	-0.32	44.64	54.00	-9.36	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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2465.080	112.22	-0.44	111.78	--	--	peak
2	2483.500	67.73	-0.35	67.38	74.00	-6.62	peak
3	2483.500	52.40	-0.35	52.05	54.00	-1.95	AVG
4	2483.920	70.17	-0.34	69.83	74.00	-4.17	peak
5	2483.920	53.05	-0.34	52.71	54.00	-1.29	AVG
6	2484.720	68.86	-0.34	68.52	74.00	-5.48	peak
7	2484.720	51.79	-0.34	51.45	54.00	-2.55	AVG
8	2485.600	64.97	-0.34	64.63	74.00	-9.37	peak
9	2485.600	49.87	-0.34	49.53	54.00	-4.47	AVG
10	2486.280	63.28	-0.33	62.95	74.00	-11.05	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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

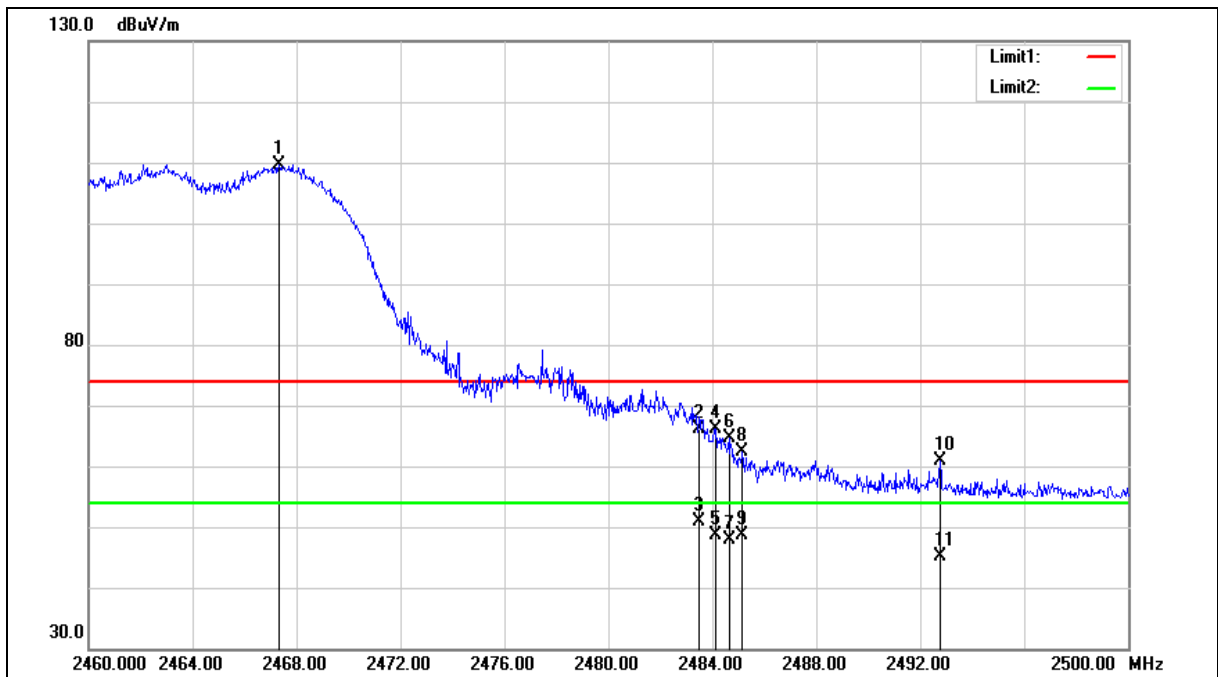
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2486.280	46.69	-0.33	46.36	54.00	-7.64	AVG
12	2486.960	62.00	-0.32	61.68	74.00	-12.32	peak
13	2486.960	46.52	-0.32	46.20	54.00	-7.80	AVG

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
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	2467.320	110.07	-0.43	109.64	--	--	peak
2	2483.500	66.56	-0.35	66.21	74.00	-7.79	peak
3	2483.500	51.17	-0.35	50.82	54.00	-3.18	AVG
4	2484.120	66.57	-0.34	66.23	74.00	-7.77	peak
5	2484.120	49.08	-0.34	48.74	54.00	-5.26	AVG
6	2484.640	64.93	-0.34	64.59	74.00	-9.41	peak
7	2484.640	48.24	-0.34	47.90	54.00	-6.10	AVG
8	2485.160	62.70	-0.34	62.36	74.00	-11.64	peak
9	2485.160	48.99	-0.34	48.65	54.00	-5.35	AVG
10	2492.760	61.21	-0.29	60.92	74.00	-13.08	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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2492.760	45.35	-0.29	45.06	54.00	-8.94	AVG

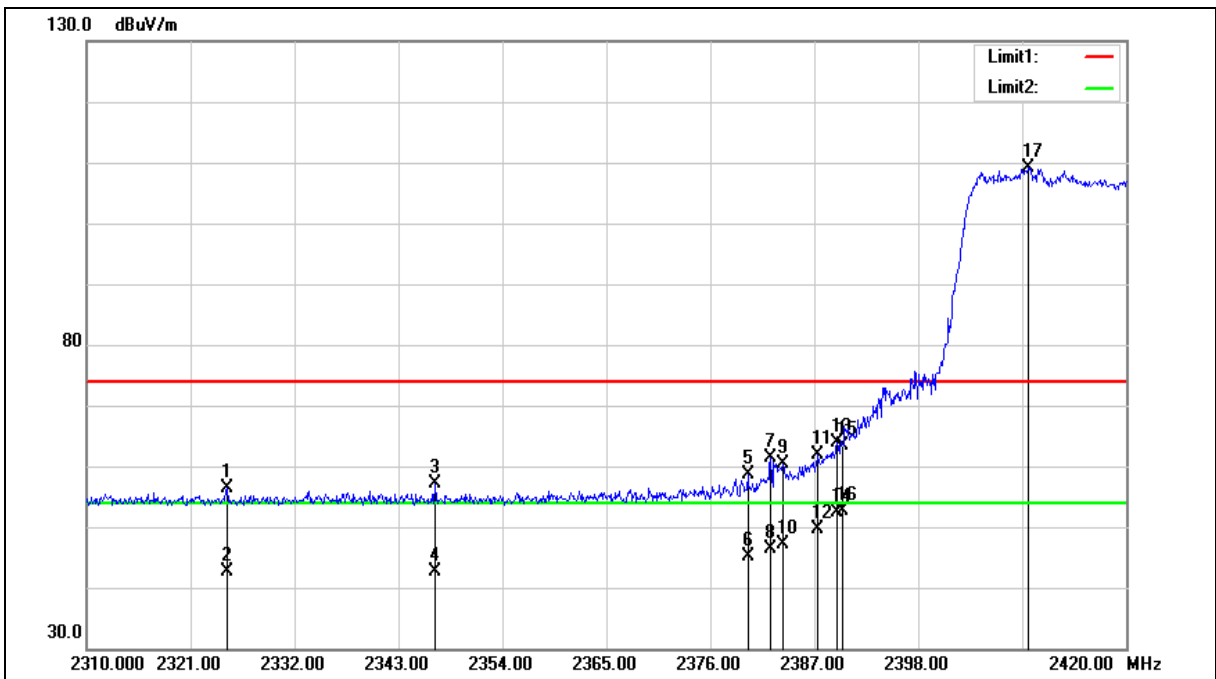
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2324.850	57.53	-1.20	56.33	74.00	-17.67	peak
2	2324.850	43.83	-1.20	42.63	54.00	-11.37	AVG
3	2346.850	58.14	-1.08	57.06	74.00	-16.94	peak
4	2346.850	43.69	-1.08	42.61	54.00	-11.39	AVG
5	2379.960	59.44	-0.93	58.51	74.00	-15.49	peak
6	2379.960	46.11	-0.93	45.18	54.00	-8.82	AVG
7	2382.380	62.31	-0.91	61.40	74.00	-12.60	peak
8	2382.380	47.17	-0.91	46.26	54.00	-7.74	AVG
9	2383.700	61.33	-0.91	60.42	74.00	-13.58	peak
10	2383.700	47.96	-0.91	47.05	54.00	-6.95	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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2387.330	62.80	-0.88	61.92	74.00	-12.08	peak
12	2387.330	50.48	-0.88	49.60	54.00	-4.40	AVG
13	2389.420	64.67	-0.88	63.79	74.00	-10.21	peak
14	2389.420	53.24	-0.88	52.36	54.00	-1.64	AVG
15	2390.000	64.33	-0.87	63.46	74.00	-10.54	peak
16	2390.000	53.54	-0.87	52.67	54.00	-1.33	AVG
17	2409.660	109.92	-0.78	109.14	--	--	peak

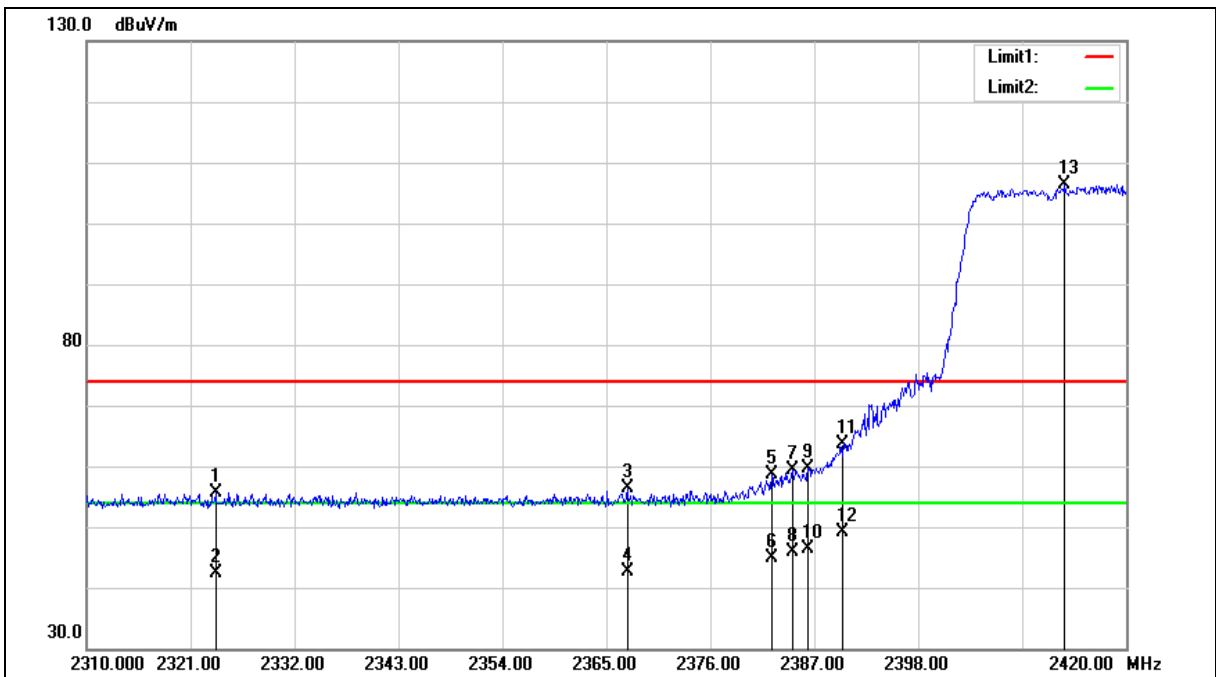
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2323.640	56.84	-1.20	55.64	74.00	-18.36	peak
2	2323.640	43.61	-1.20	42.41	54.00	-11.59	AVG
3	2367.200	57.25	-0.99	56.26	74.00	-17.74	peak
4	2367.200	43.68	-0.99	42.69	54.00	-11.31	AVG
5	2382.490	59.48	-0.91	58.57	74.00	-15.43	peak
6	2382.490	45.79	-0.91	44.88	54.00	-9.12	AVG
7	2384.690	60.39	-0.90	59.49	74.00	-14.51	peak
8	2384.690	46.77	-0.90	45.87	54.00	-8.13	AVG
9	2386.340	60.57	-0.90	59.67	74.00	-14.33	peak
10	2386.340	47.26	-0.90	46.36	54.00	-7.64	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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2390.000	64.42	-0.87	63.55	74.00	-10.45	peak
12	2390.000	49.99	-0.87	49.12	54.00	-4.88	AVG
13	2413.510	107.09	-0.75	106.34	--	--	peak

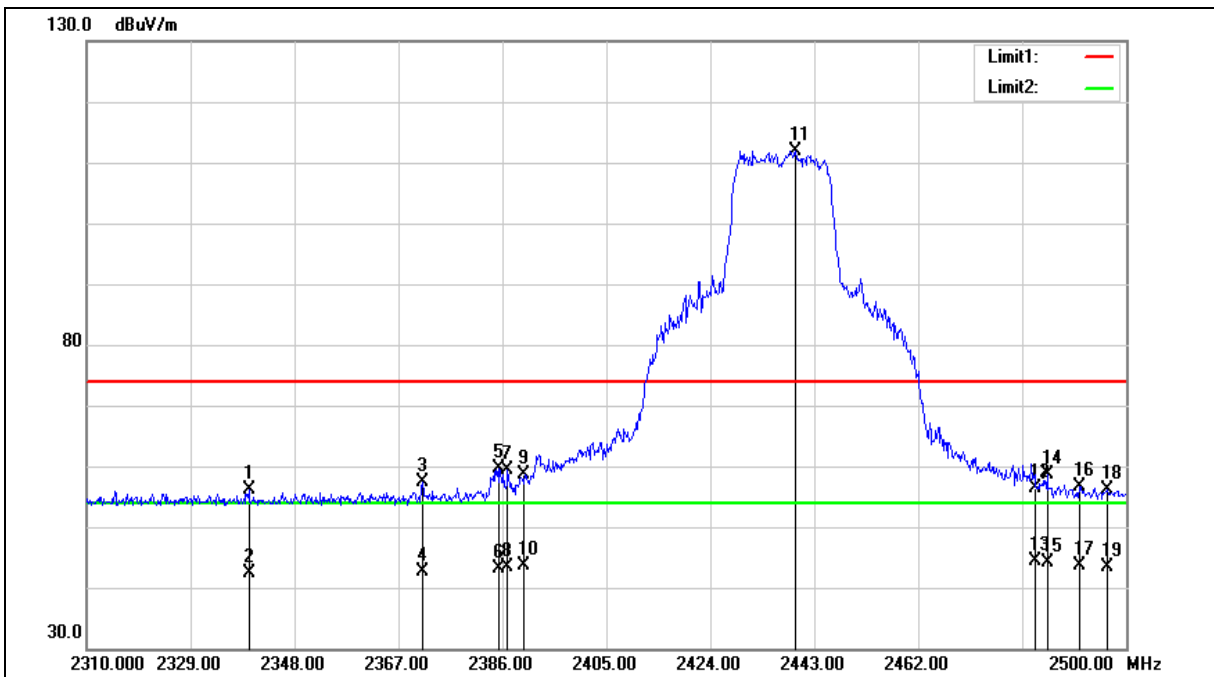
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2339.640	57.26	-1.13	56.13	74.00	-17.87	peak
2	2339.640	43.59	-1.13	42.46	54.00	-11.54	AVG
3	2371.370	58.24	-0.97	57.27	74.00	-16.73	peak
4	2371.370	43.51	-0.97	42.54	54.00	-11.46	AVG
5	2385.430	60.42	-0.90	59.52	74.00	-14.48	peak
6	2385.430	44.10	-0.90	43.20	54.00	-10.80	AVG
7	2386.950	60.16	-0.88	59.28	74.00	-14.72	peak
8	2386.950	44.30	-0.88	43.42	54.00	-10.58	AVG
9	2390.000	59.41	-0.87	58.54	74.00	-15.46	peak
10	2390.000	44.48	-0.87	43.61	54.00	-10.39	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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2439.580	112.53	-0.62	111.91	--	--	peak
12	2483.500	56.77	-0.40	56.37	74.00	-17.63	peak
13	2483.500	44.73	-0.40	44.33	54.00	-9.67	AVG
14	2485.560	59.00	-0.38	58.62	74.00	-15.38	peak
15	2485.560	44.45	-0.38	44.07	54.00	-9.93	AVG
16	2491.450	57.03	-0.35	56.68	74.00	-17.32	peak
17	2491.450	43.89	-0.35	43.54	54.00	-10.46	AVG
18	2496.580	56.37	-0.33	56.04	74.00	-17.96	peak
19	2496.580	43.74	-0.33	43.41	54.00	-10.59	AVG

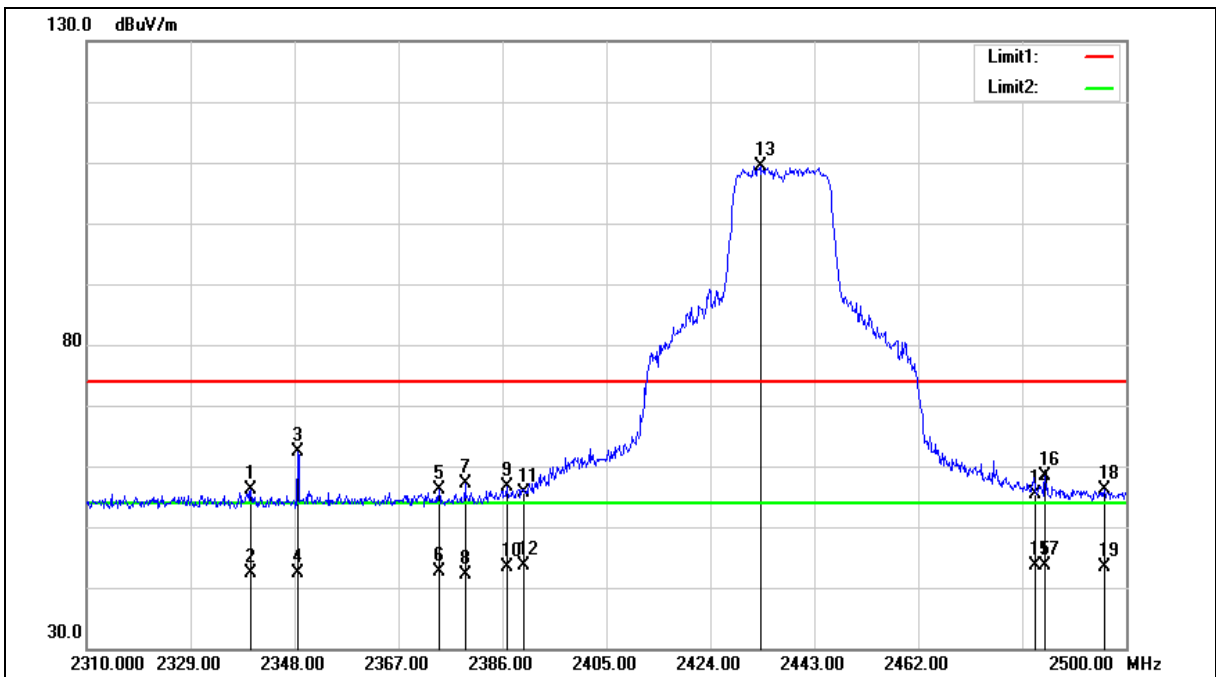
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2340.020	57.18	-1.12	56.06	74.00	-17.94	peak
2	2340.020	43.46	-1.12	42.34	54.00	-11.66	AVG
3	2348.570	63.37	-1.07	62.30	74.00	-11.70	peak
4	2348.570	43.43	-1.07	42.36	54.00	-11.64	AVG
5	2374.410	57.05	-0.96	56.09	74.00	-17.91	peak
6	2374.410	43.47	-0.96	42.51	54.00	-11.49	AVG
7	2379.160	58.17	-0.93	57.24	74.00	-16.76	peak
8	2379.160	43.05	-0.93	42.12	54.00	-11.88	AVG
9	2386.760	57.55	-0.89	56.66	74.00	-17.34	peak
10	2386.760	44.34	-0.89	43.45	54.00	-10.55	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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2390.000	56.52	-0.87	55.65	74.00	-18.35	peak
12	2390.000	44.46	-0.87	43.59	54.00	-10.41	AVG
13	2433.120	110.11	-0.66	109.45	--	--	peak
14	2483.500	55.79	-0.40	55.39	74.00	-18.61	peak
15	2483.500	44.02	-0.40	43.62	54.00	-10.38	AVG
16	2485.180	58.83	-0.39	58.44	74.00	-15.56	peak
17	2485.180	43.94	-0.39	43.55	54.00	-10.45	AVG
18	2496.010	56.36	-0.33	56.03	74.00	-17.97	peak
19	2496.010	43.78	-0.33	43.45	54.00	-10.55	AVG

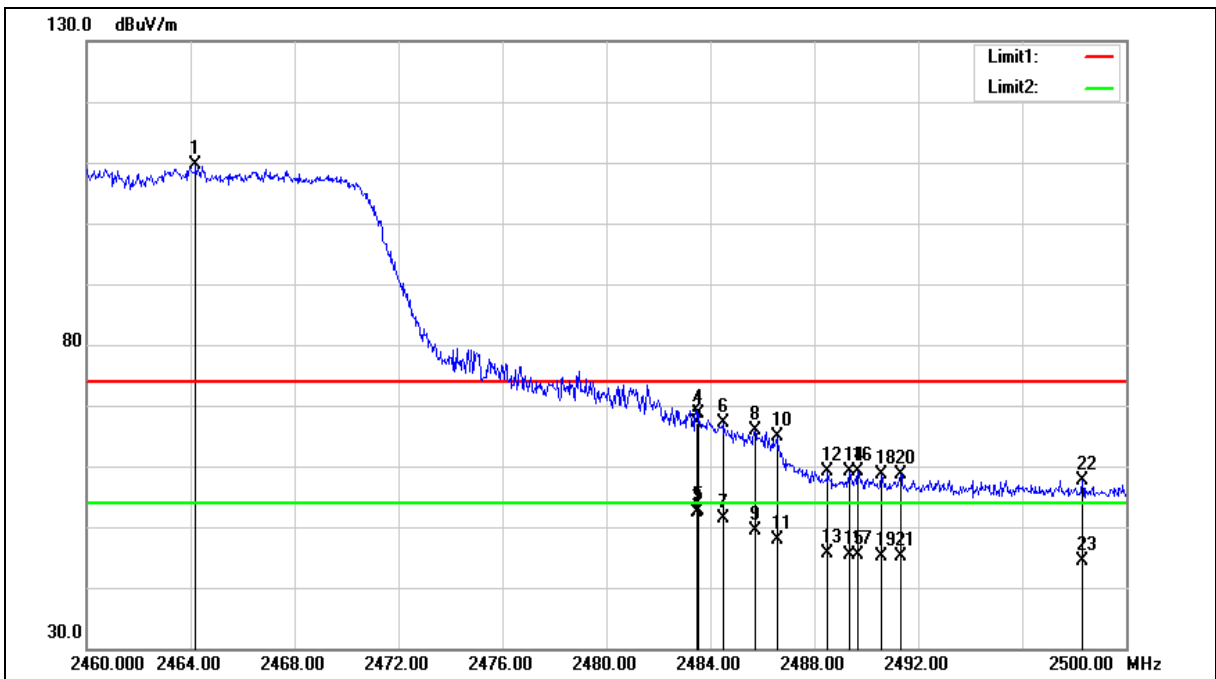
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.200	110.05	-0.49	109.56	--	--	peak
2	2483.500	67.56	-0.40	67.16	74.00	-6.84	peak
3	2483.500	52.86	-0.40	52.46	54.00	-1.54	AVG
4	2483.560	68.95	-0.40	68.55	74.00	-5.45	peak
5	2483.560	52.95	-0.40	52.55	54.00	-1.45	AVG
6	2484.480	67.54	-0.39	67.15	74.00	-6.85	peak
7	2484.480	51.74	-0.39	51.35	54.00	-2.65	AVG
8	2485.720	66.19	-0.38	65.81	74.00	-8.19	peak
9	2485.720	49.71	-0.38	49.33	54.00	-4.67	AVG
10	2486.560	65.26	-0.38	64.88	74.00	-9.12	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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2486.560	48.14	-0.38	47.76	54.00	-6.24	AVG
12	2488.520	59.47	-0.37	59.10	74.00	-14.90	peak
13	2488.520	46.02	-0.37	45.65	54.00	-8.35	AVG
14	2489.360	59.52	-0.37	59.15	74.00	-14.85	peak
15	2489.360	45.67	-0.37	45.30	54.00	-8.70	AVG
16	2489.680	59.52	-0.37	59.15	74.00	-14.85	peak
17	2489.680	45.64	-0.37	45.27	54.00	-8.73	AVG
18	2490.560	59.03	-0.36	58.67	74.00	-15.33	peak
19	2490.560	45.59	-0.36	45.23	54.00	-8.77	AVG
20	2491.320	59.03	-0.35	58.68	74.00	-15.32	peak
21	2491.320	45.47	-0.35	45.12	54.00	-8.88	AVG
22	2498.320	57.97	-0.32	57.65	74.00	-16.35	peak
23	2498.320	44.72	-0.32	44.40	54.00	-9.60	AVG

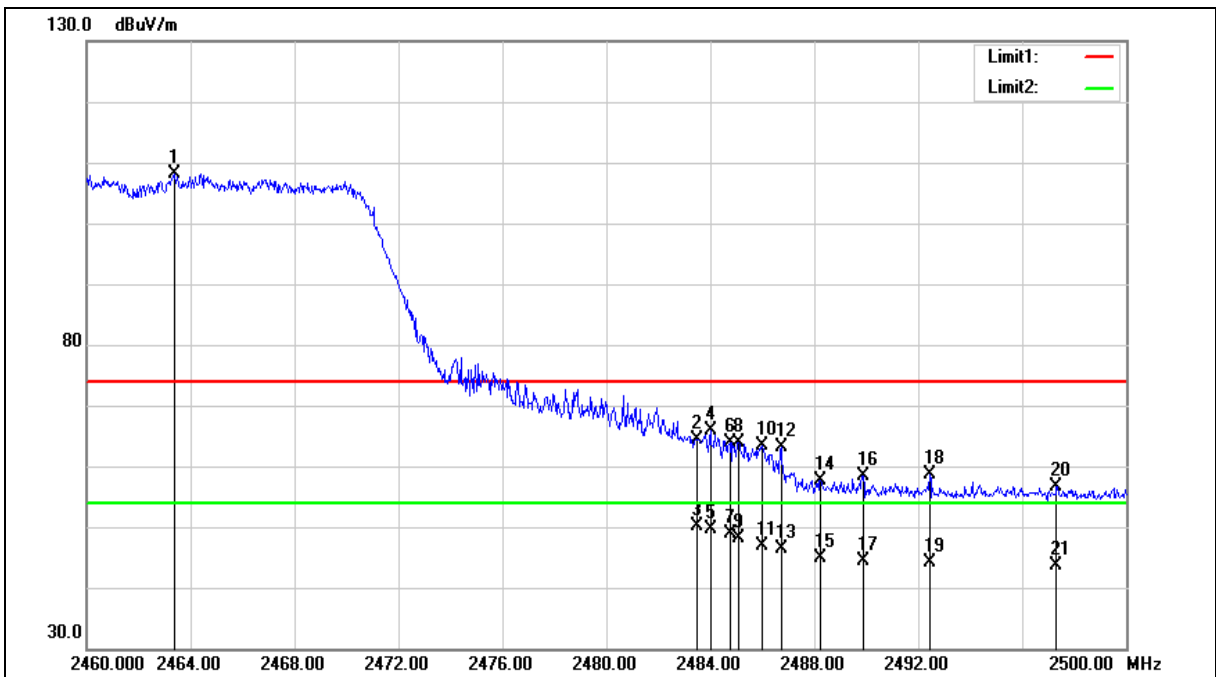
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.400	108.67	-0.49	108.18	--	--	peak
2	2483.500	64.88	-0.40	64.48	74.00	-9.52	peak
3	2483.500	50.42	-0.40	50.02	54.00	-3.98	AVG
4	2484.000	66.31	-0.39	65.92	74.00	-8.08	peak
5	2484.000	50.05	-0.39	49.66	54.00	-4.34	AVG
6	2484.760	64.35	-0.39	63.96	74.00	-10.04	peak
7	2484.760	49.19	-0.39	48.80	54.00	-5.20	AVG
8	2485.080	64.25	-0.39	63.86	74.00	-10.14	peak
9	2485.080	48.44	-0.39	48.05	54.00	-5.95	AVG
10	2486.000	63.65	-0.38	63.27	74.00	-10.73	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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2486.000	47.28	-0.38	46.90	54.00	-7.10	AVG
12	2486.720	63.43	-0.38	63.05	74.00	-10.95	peak
13	2486.720	46.65	-0.38	46.27	54.00	-7.73	AVG
14	2488.240	58.07	-0.37	57.70	74.00	-16.30	peak
15	2488.240	45.27	-0.37	44.90	54.00	-9.10	AVG
16	2489.880	58.73	-0.36	58.37	74.00	-15.63	peak
17	2489.880	44.71	-0.36	44.35	54.00	-9.65	AVG
18	2492.440	58.94	-0.35	58.59	74.00	-15.41	peak
19	2492.440	44.48	-0.35	44.13	54.00	-9.87	AVG
20	2497.320	57.06	-0.32	56.74	74.00	-17.26	peak
21	2497.320	43.92	-0.32	43.60	54.00	-10.40	AVG

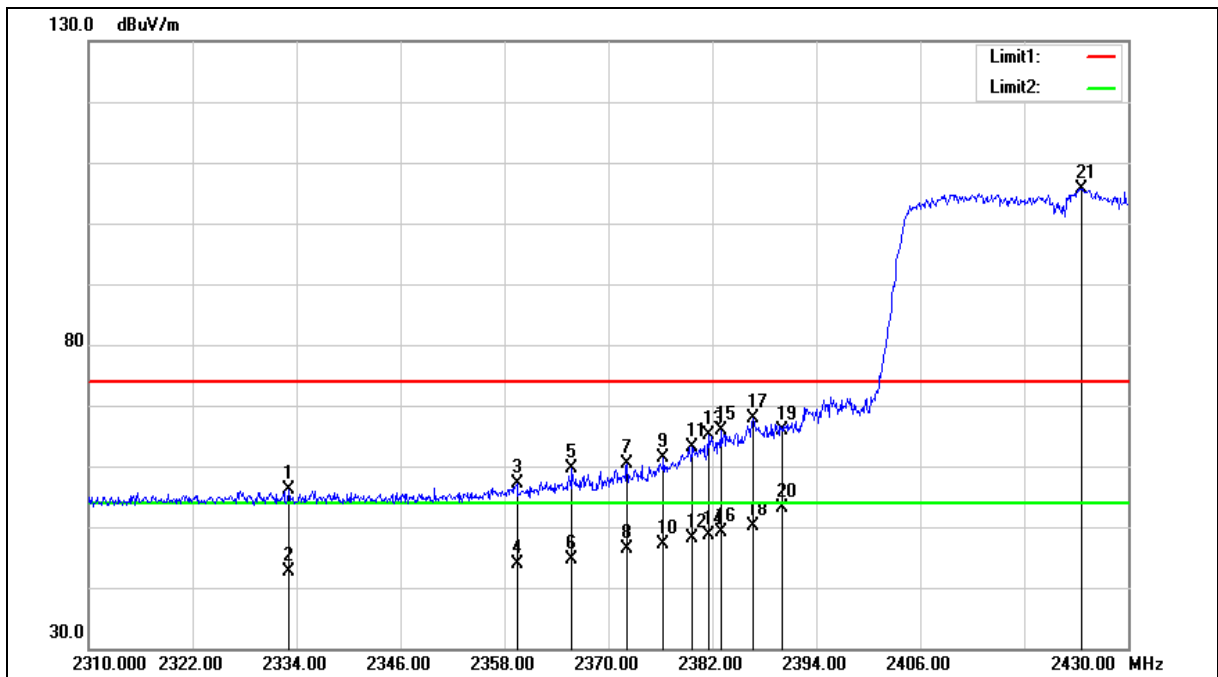
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2333.160	57.27	-1.16	56.11	74.00	-17.89	peak
2	2333.160	43.84	-1.16	42.68	54.00	-11.32	AVG
3	2359.440	58.24	-1.03	57.21	74.00	-16.79	peak
4	2359.440	44.84	-1.03	43.81	54.00	-10.19	AVG
5	2365.800	60.61	-1.00	59.61	74.00	-14.39	peak
6	2365.800	45.75	-1.00	44.75	54.00	-9.25	AVG
7	2372.160	61.45	-0.96	60.49	74.00	-13.51	peak
8	2372.160	47.23	-0.96	46.27	54.00	-7.73	AVG
9	2376.360	62.21	-0.94	61.27	74.00	-12.73	peak
10	2376.360	48.19	-0.94	47.25	54.00	-6.75	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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2379.720	64.12	-0.93	63.19	74.00	-10.81	peak
12	2379.720	49.05	-0.93	48.12	54.00	-5.88	AVG
13	2381.520	66.09	-0.91	65.18	74.00	-8.82	peak
14	2381.520	49.47	-0.91	48.56	54.00	-5.44	AVG
15	2382.960	66.67	-0.91	65.76	74.00	-8.24	peak
16	2382.960	50.01	-0.91	49.10	54.00	-4.90	AVG
17	2386.680	68.69	-0.89	67.80	74.00	-6.20	peak
18	2386.680	51.04	-0.89	50.15	54.00	-3.85	AVG
19	2390.000	66.78	-0.87	65.91	74.00	-8.09	peak
20	2390.000	54.06	-0.87	53.19	54.00	-0.81	AVG
21	2424.600	106.42	-0.70	105.72	--	--	peak

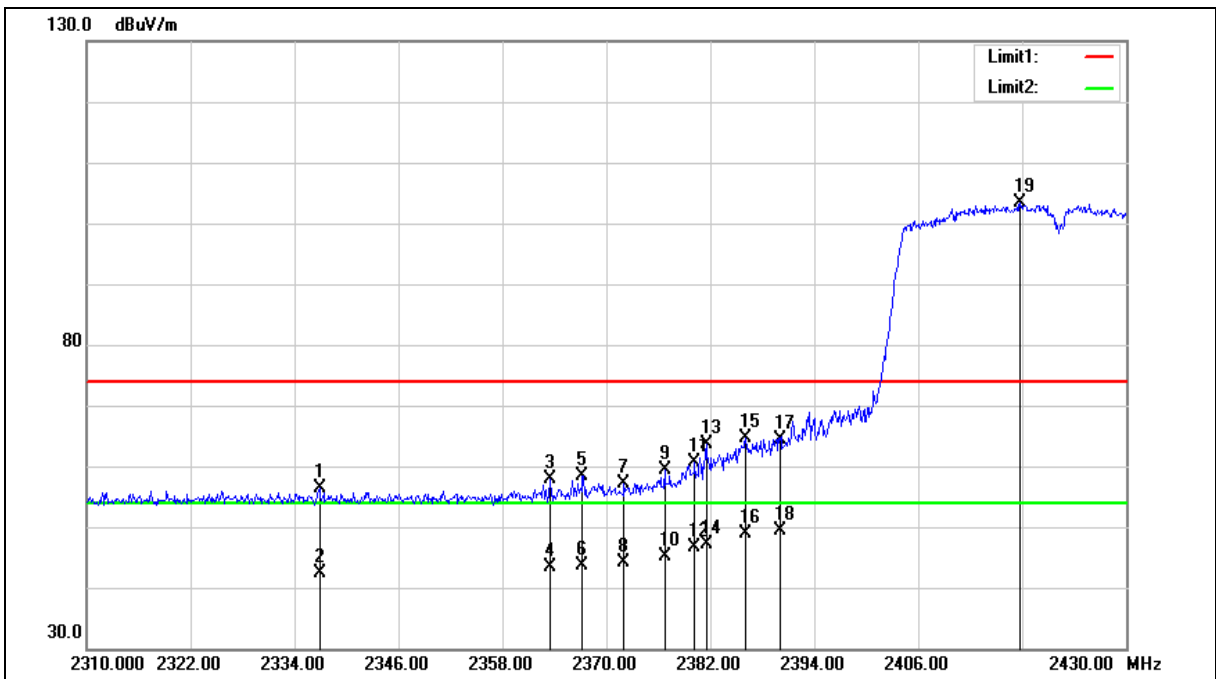
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2336.880	57.46	-1.13	56.33	74.00	-17.67	peak
2	2336.880	43.63	-1.13	42.50	54.00	-11.50	AVG
3	2363.520	58.91	-1.00	57.91	74.00	-16.09	peak
4	2363.520	44.43	-1.00	43.43	54.00	-10.57	AVG
5	2367.240	59.46	-0.99	58.47	74.00	-15.53	peak
6	2367.240	44.63	-0.99	43.64	54.00	-10.36	AVG
7	2372.040	58.05	-0.97	57.08	74.00	-16.92	peak
8	2372.040	45.07	-0.97	44.10	54.00	-9.90	AVG
9	2376.720	60.43	-0.94	59.49	74.00	-14.51	peak
10	2376.720	46.09	-0.94	45.15	54.00	-8.85	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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2380.200	61.44	-0.93	60.51	74.00	-13.49	peak
12	2380.200	47.55	-0.93	46.62	54.00	-7.38	AVG
13	2381.520	64.48	-0.91	63.57	74.00	-10.43	peak
14	2381.520	47.96	-0.91	47.05	54.00	-6.95	AVG
15	2386.080	65.53	-0.90	64.63	74.00	-9.37	peak
16	2386.080	49.79	-0.90	48.89	54.00	-5.11	AVG
17	2390.000	65.23	-0.87	64.36	74.00	-9.64	peak
18	2390.000	50.25	-0.87	49.38	54.00	-4.62	AVG
19	2417.760	104.09	-0.73	103.36	--	--	peak

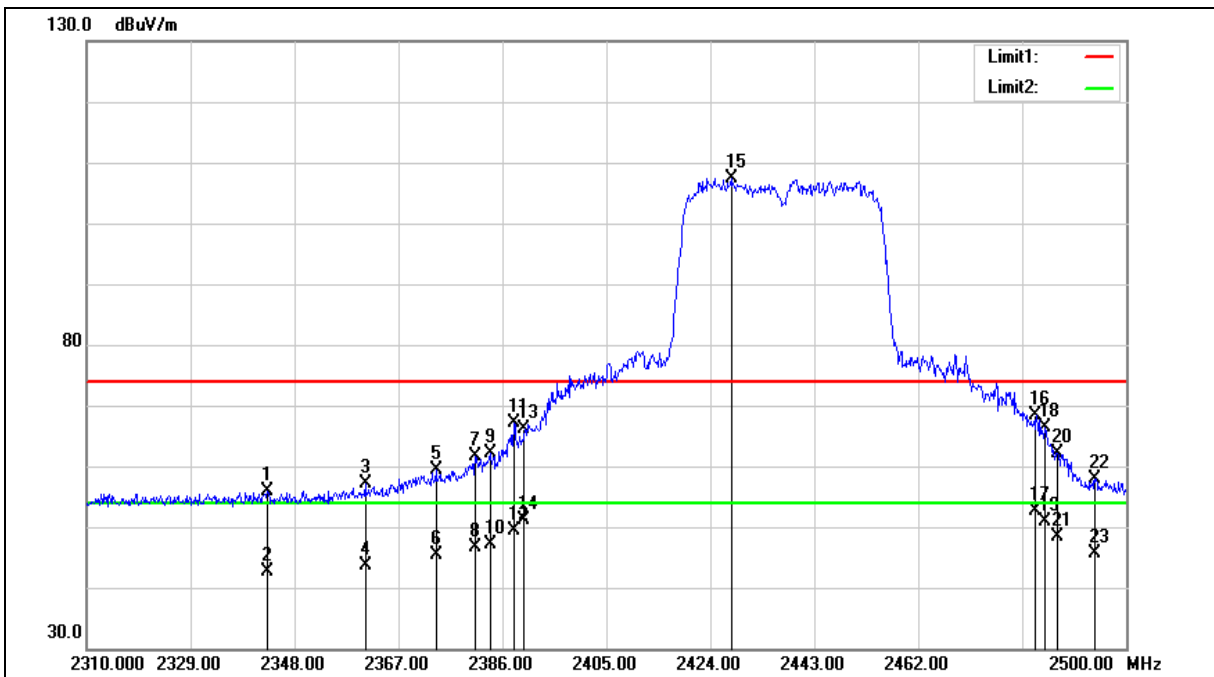
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2343.060	57.01	-1.10	55.91	74.00	-18.09	peak
2	2343.060	43.79	-1.10	42.69	54.00	-11.31	AVG
3	2360.920	58.17	-1.02	57.15	74.00	-16.85	peak
4	2360.920	44.76	-1.02	43.74	54.00	-10.26	AVG
5	2373.840	60.23	-0.96	59.27	74.00	-14.73	peak
6	2373.840	46.24	-0.96	45.28	54.00	-8.72	AVG
7	2381.060	62.52	-0.91	61.61	74.00	-12.39	peak
8	2381.060	47.47	-0.91	46.56	54.00	-7.44	AVG
9	2383.720	63.04	-0.91	62.13	74.00	-11.87	peak
10	2383.720	48.06	-0.91	47.15	54.00	-6.85	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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

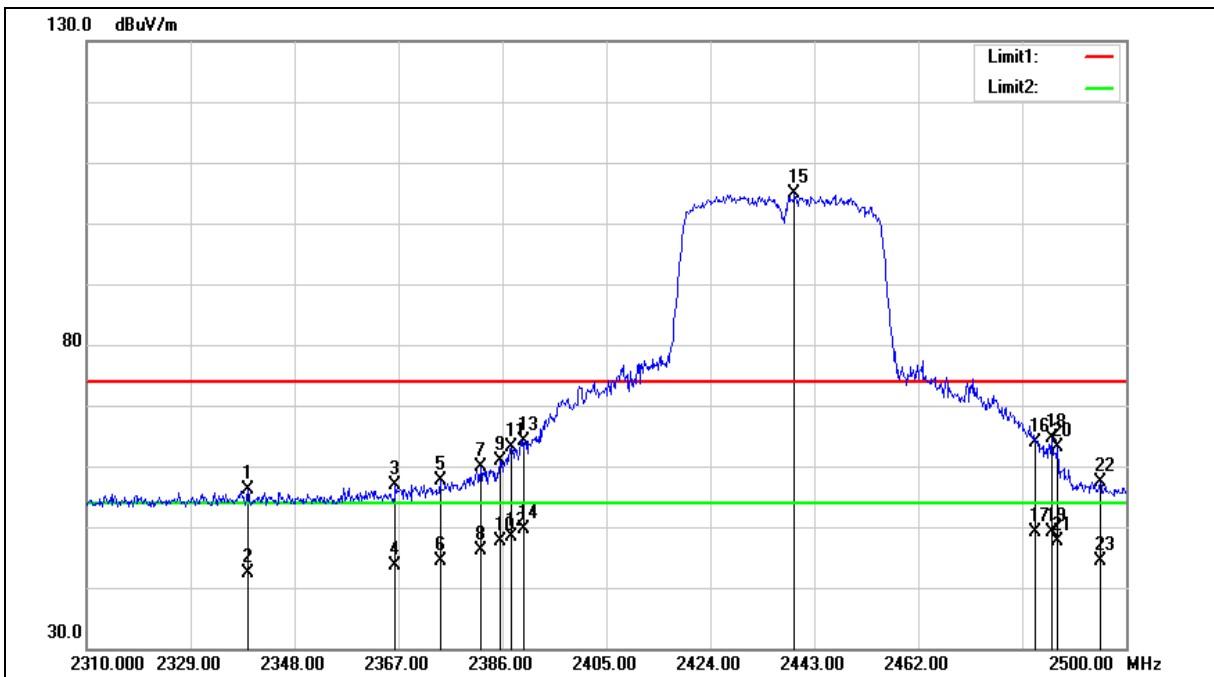
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2388.090	67.90	-0.88	67.02	74.00	-6.98	peak
12	2388.090	50.28	-0.88	49.40	54.00	-4.60	AVG
13	2390.000	67.03	-0.87	66.16	74.00	-7.84	peak
14	2390.000	52.01	-0.87	51.14	54.00	-2.86	AVG
15	2427.800	108.01	-0.68	107.33	--	--	peak
16	2483.500	68.85	-0.40	68.45	74.00	-5.55	peak
17	2483.500	52.94	-0.40	52.54	54.00	-1.46	AVG
18	2485.180	66.83	-0.39	66.44	74.00	-7.56	peak
19	2485.180	51.36	-0.39	50.97	54.00	-3.03	AVG
20	2487.460	62.43	-0.37	62.06	74.00	-11.94	peak
21	2487.460	48.81	-0.37	48.44	54.00	-5.56	AVG
22	2494.300	58.29	-0.34	57.95	74.00	-16.05	peak
23	2494.300	46.00	-0.34	45.66	54.00	-8.34	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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2339.450	57.32	-1.13	56.19	74.00	-17.81	peak
2	2339.450	43.56	-1.13	42.43	54.00	-11.57	AVG
3	2366.430	57.94	-0.99	56.95	74.00	-17.05	peak
4	2366.430	44.69	-0.99	43.70	54.00	-10.30	AVG
5	2374.600	58.50	-0.96	57.54	74.00	-16.46	peak
6	2374.600	45.42	-0.96	44.46	54.00	-9.54	AVG
7	2382.010	60.67	-0.91	59.76	74.00	-14.24	peak
8	2382.010	47.14	-0.91	46.23	54.00	-7.77	AVG
9	2385.620	61.87	-0.90	60.97	74.00	-13.03	peak
10	2385.620	48.43	-0.90	47.53	54.00	-6.47	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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2387.710	64.07	-0.88	63.19	74.00	-10.81	peak
12	2387.710	49.30	-0.88	48.42	54.00	-5.58	AVG
13	2390.000	64.89	-0.87	64.02	74.00	-9.98	peak
14	2390.000	50.53	-0.87	49.66	54.00	-4.34	AVG
15	2439.390	105.50	-0.62	104.88	--	--	peak
16	2483.500	64.27	-0.40	63.87	74.00	-10.13	peak
17	2483.500	49.50	-0.40	49.10	54.00	-4.90	AVG
18	2486.320	65.12	-0.38	64.74	74.00	-9.26	peak
19	2486.320	49.44	-0.38	49.06	54.00	-4.94	AVG
20	2487.460	63.53	-0.37	63.16	74.00	-10.84	peak
21	2487.460	48.12	-0.37	47.75	54.00	-6.25	AVG
22	2495.250	57.79	-0.34	57.45	74.00	-16.55	peak
23	2495.250	44.70	-0.34	44.36	54.00	-9.64	AVG

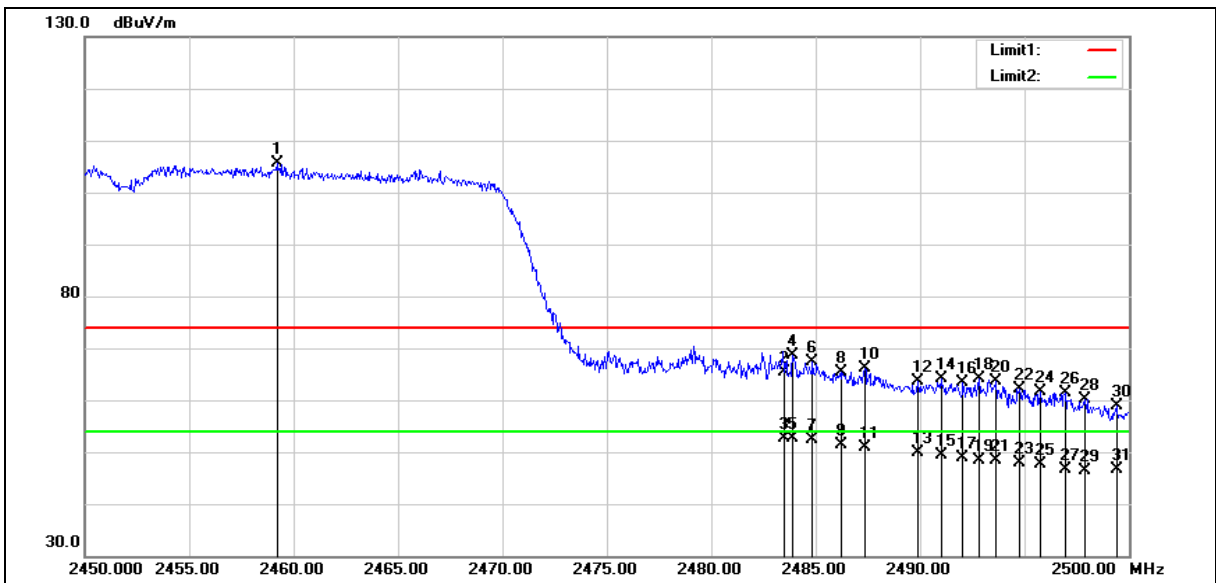
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.200	106.08	-0.52	105.56	--	--	peak
2	2483.500	65.87	-0.40	65.47	74.00	-8.53	peak
3	2483.500	53.12	-0.40	52.72	54.00	-1.28	AVG
4	2483.900	68.92	-0.39	68.53	74.00	-5.47	peak
5	2483.900	53.12	-0.39	52.73	54.00	-1.27	AVG
6	2484.850	67.77	-0.39	67.38	74.00	-6.62	peak
7	2484.850	52.72	-0.39	52.33	54.00	-1.67	AVG
8	2486.250	65.84	-0.38	65.46	74.00	-8.54	peak
9	2486.250	51.86	-0.38	51.48	54.00	-2.52	AVG
10	2487.350	66.47	-0.37	66.10	74.00	-7.90	peak
11	2487.350	51.37	-0.37	51.00	54.00	-3.00	AVG
12	2489.900	63.91	-0.36	63.55	74.00	-10.45	peak

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

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
13	2489.900	50.31	-0.36	49.95	54.00	-4.05	AVG
14	2491.000	64.48	-0.36	64.12	74.00	-9.88	peak
15	2491.000	49.76	-0.36	49.40	54.00	-4.60	AVG
16	2492.050	63.69	-0.35	63.34	74.00	-10.66	peak
17	2492.050	49.32	-0.35	48.97	54.00	-5.03	AVG
18	2492.850	64.57	-0.34	64.23	74.00	-9.77	peak
19	2492.850	48.82	-0.34	48.48	54.00	-5.52	AVG
20	2493.650	63.85	-0.34	63.51	74.00	-10.49	peak
21	2493.650	48.61	-0.34	48.27	54.00	-5.73	AVG
22	2494.750	62.42	-0.34	62.08	74.00	-11.92	peak
23	2494.750	48.11	-0.34	47.77	54.00	-6.23	AVG
24	2495.750	62.01	-0.33	61.68	74.00	-12.32	peak
25	2495.750	47.90	-0.33	47.57	54.00	-6.43	AVG
26	2496.950	61.65	-0.33	61.32	74.00	-12.68	peak
27	2496.950	47.05	-0.33	46.72	54.00	-7.28	AVG
28	2497.900	60.40	-0.32	60.08	74.00	-13.92	peak
29	2497.900	46.61	-0.32	46.29	54.00	-7.71	AVG
30	2499.400	59.25	-0.31	58.94	74.00	-15.06	peak
31	2499.400	46.92	-0.31	46.61	54.00	-7.39	AVG

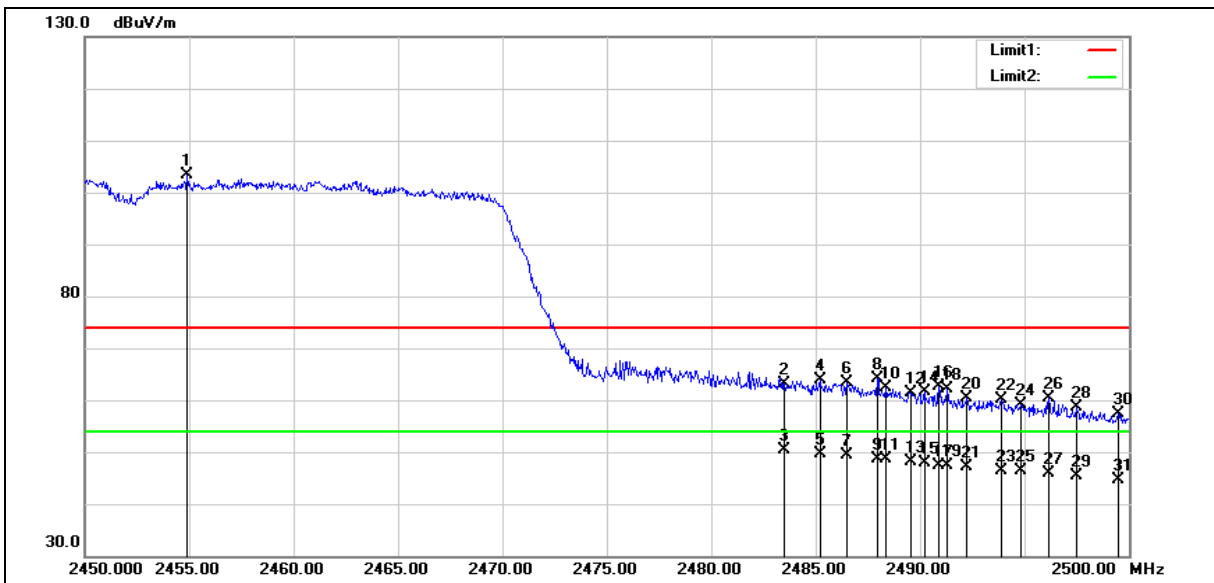
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.900	104.02	-0.54	103.48	--	--	peak
2	2483.500	63.63	-0.40	63.23	74.00	-10.77	peak
3	2483.500	50.83	-0.40	50.43	54.00	-3.57	AVG
4	2485.200	64.30	-0.39	63.91	74.00	-10.09	peak
5	2485.200	50.07	-0.39	49.68	54.00	-4.32	AVG
6	2486.500	63.79	-0.38	63.41	74.00	-10.59	peak
7	2486.500	49.72	-0.38	49.34	54.00	-4.66	AVG
8	2487.950	64.56	-0.37	64.19	74.00	-9.81	peak
9	2487.950	49.06	-0.37	48.69	54.00	-5.31	AVG
10	2488.350	62.86	-0.37	62.49	74.00	-11.51	peak
11	2488.350	48.92	-0.37	48.55	54.00	-5.45	AVG
12	2489.550	61.69	-0.37	61.32	74.00	-12.68	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	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
13	2489.550	48.38	-0.37	48.01	54.00	-5.99	AVG
14	2490.200	61.96	-0.36	61.60	74.00	-12.40	peak
15	2490.200	48.19	-0.36	47.83	54.00	-6.17	AVG
16	2490.900	62.91	-0.36	62.55	74.00	-11.45	peak
17	2490.900	47.80	-0.36	47.44	54.00	-6.56	AVG
18	2491.300	62.45	-0.35	62.10	74.00	-11.90	peak
19	2491.300	47.78	-0.35	47.43	54.00	-6.57	AVG
20	2492.250	60.69	-0.35	60.34	74.00	-13.66	peak
21	2492.250	47.36	-0.35	47.01	54.00	-6.99	AVG
22	2493.900	60.49	-0.34	60.15	74.00	-13.85	peak
23	2493.900	46.71	-0.34	46.37	54.00	-7.63	AVG
24	2494.850	59.54	-0.34	59.20	74.00	-14.80	peak
25	2494.850	46.60	-0.34	46.26	54.00	-7.74	AVG
26	2496.150	60.62	-0.33	60.29	74.00	-13.71	peak
27	2496.150	46.11	-0.33	45.78	54.00	-8.22	AVG
28	2497.500	58.89	-0.32	58.57	74.00	-15.43	peak
29	2497.500	45.74	-0.32	45.42	54.00	-8.58	AVG
30	2499.500	57.65	-0.31	57.34	74.00	-16.66	peak
31	2499.500	44.97	-0.31	44.66	54.00	-9.34	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:	3 m
Test item:	Radiated Emission	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
151.2500	29.50	-5.72	23.78	43.50	-19.72	QP	H
304.5100	27.77	-4.13	23.64	46.00	-22.36	QP	H
490.7500	31.48	-0.24	31.24	46.00	-14.76	QP	H
523.7300	31.97	0.42	32.39	46.00	-13.61	QP	H
707.0600	27.92	4.11	32.03	46.00	-13.97	QP	H
777.8700	30.30	5.55	35.85	46.00	-10.15	QP	H
93.0500	38.45	-11.67	26.78	43.50	-16.72	QP	V
159.9800	31.35	-5.41	25.94	43.50	-17.56	QP	V
498.5100	30.31	-0.15	30.16	46.00	-15.84	QP	V
522.7600	33.65	0.40	34.05	46.00	-11.95	QP	V
711.9100	28.04	4.23	32.27	46.00	-13.73	QP	V
776.9000	29.57	5.55	35.12	46.00	-10.88	QP	V

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

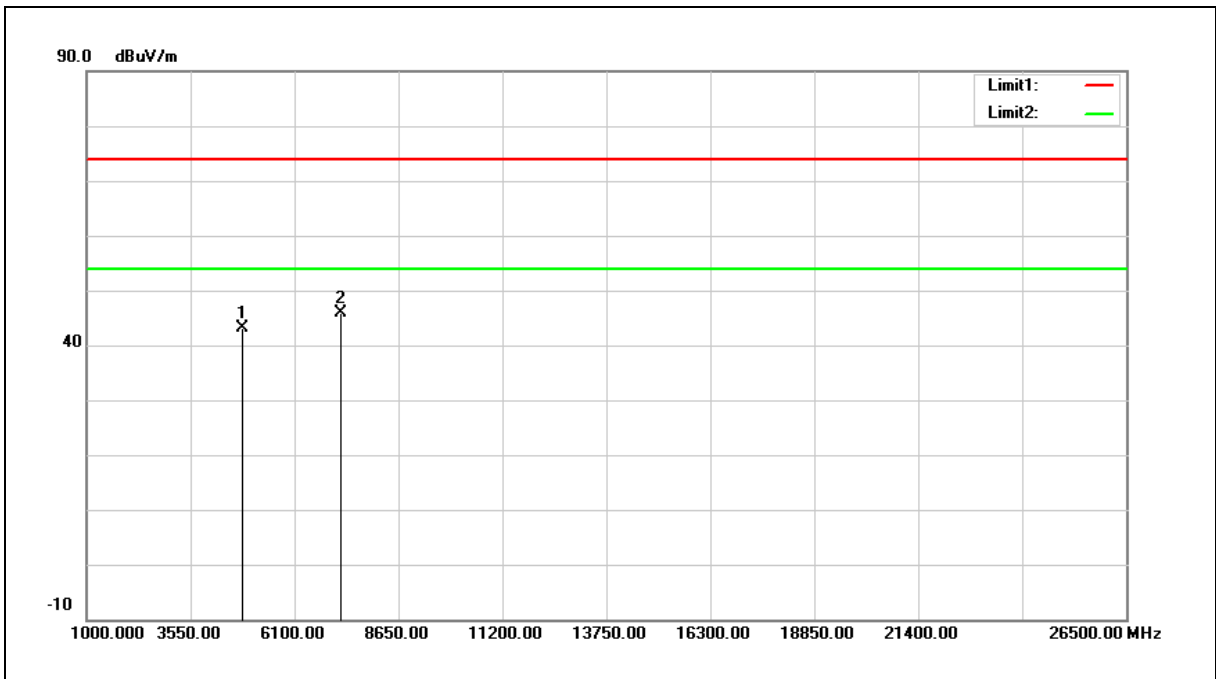
Example: 23.78= -5.7+29.50.

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.

Above 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	37.06	5.97	43.03	74.00	-30.97	peak
2	7236.000	33.43	12.48	45.91	74.00	-28.09	peak

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

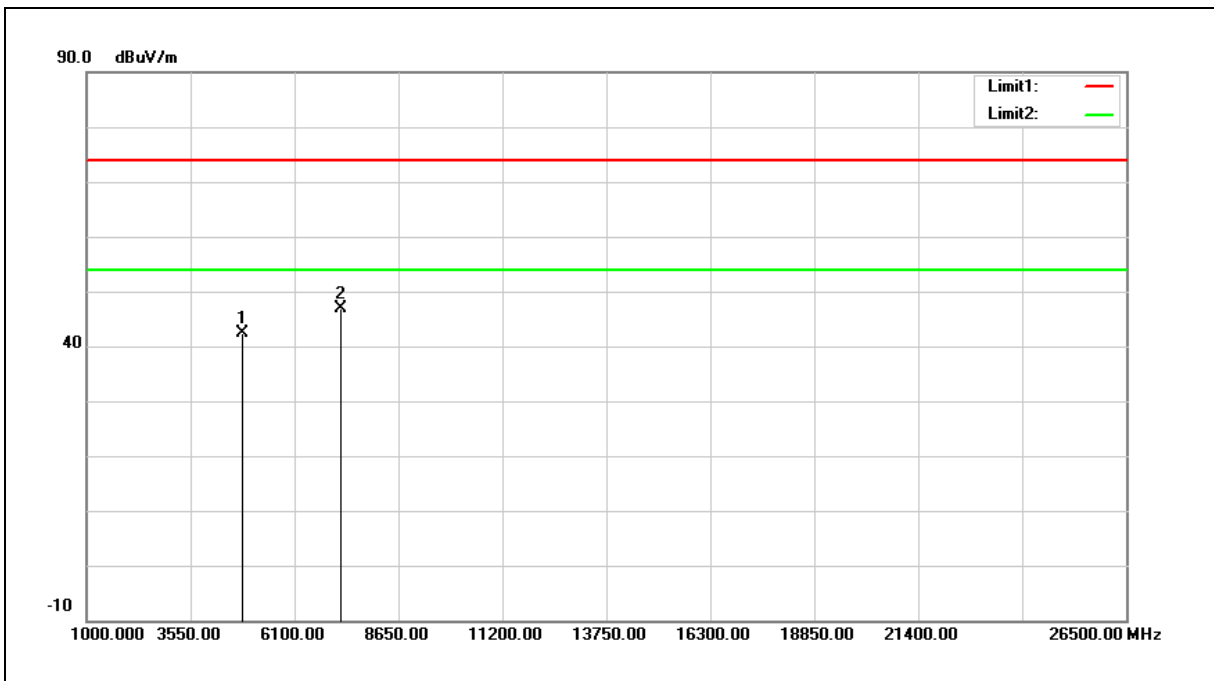
Example: 43.03= 5.97+37.06

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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	36.49	5.97	42.46	74.00	-31.54	peak
2	7236.000	34.29	12.48	46.77	74.00	-27.23	peak

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

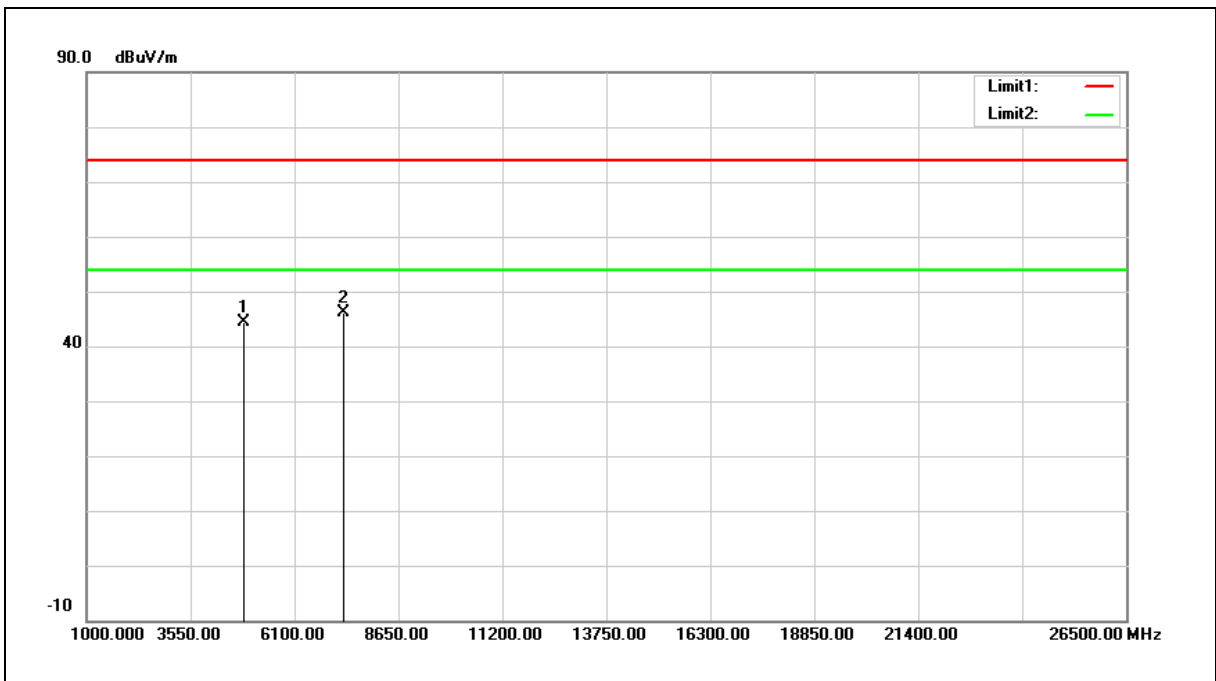
Example: 42.46= 5.97+36.49

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	38.14	6.12	44.26	74.00	-29.74	peak
2	7311.000	33.46	12.73	46.19	74.00	-27.81	peak

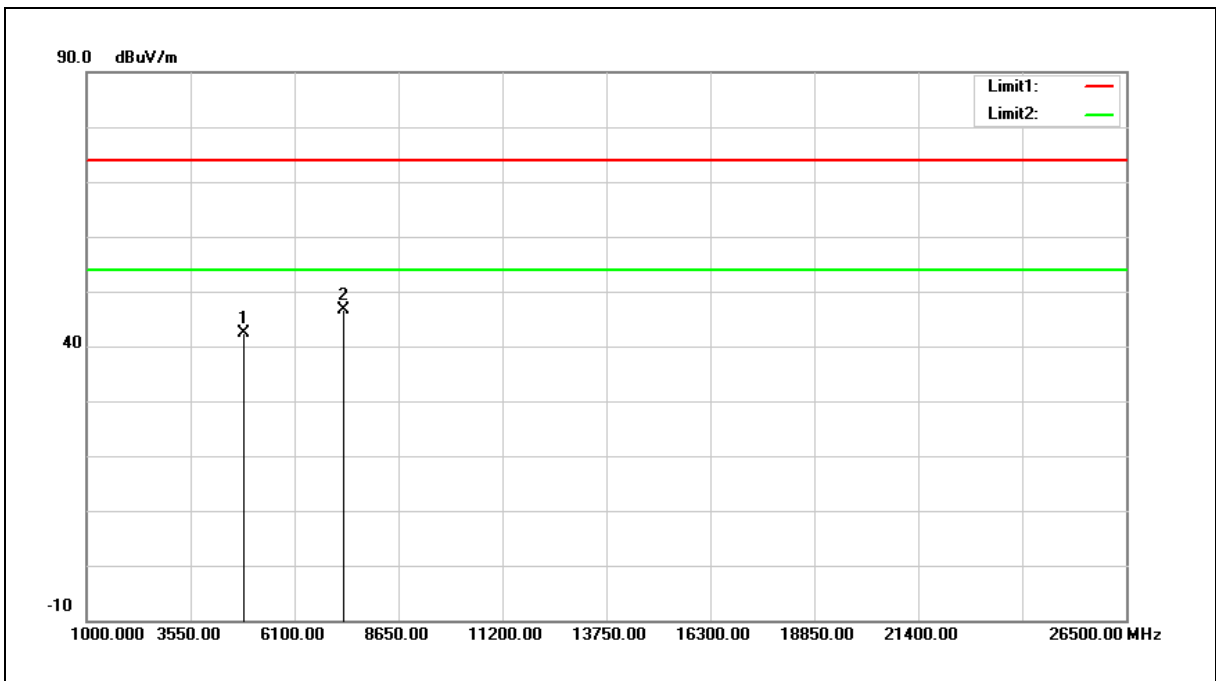
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	36.35	6.12	42.47	74.00	-31.53	peak
2	7311.000	34.01	12.73	46.74	74.00	-27.26	peak

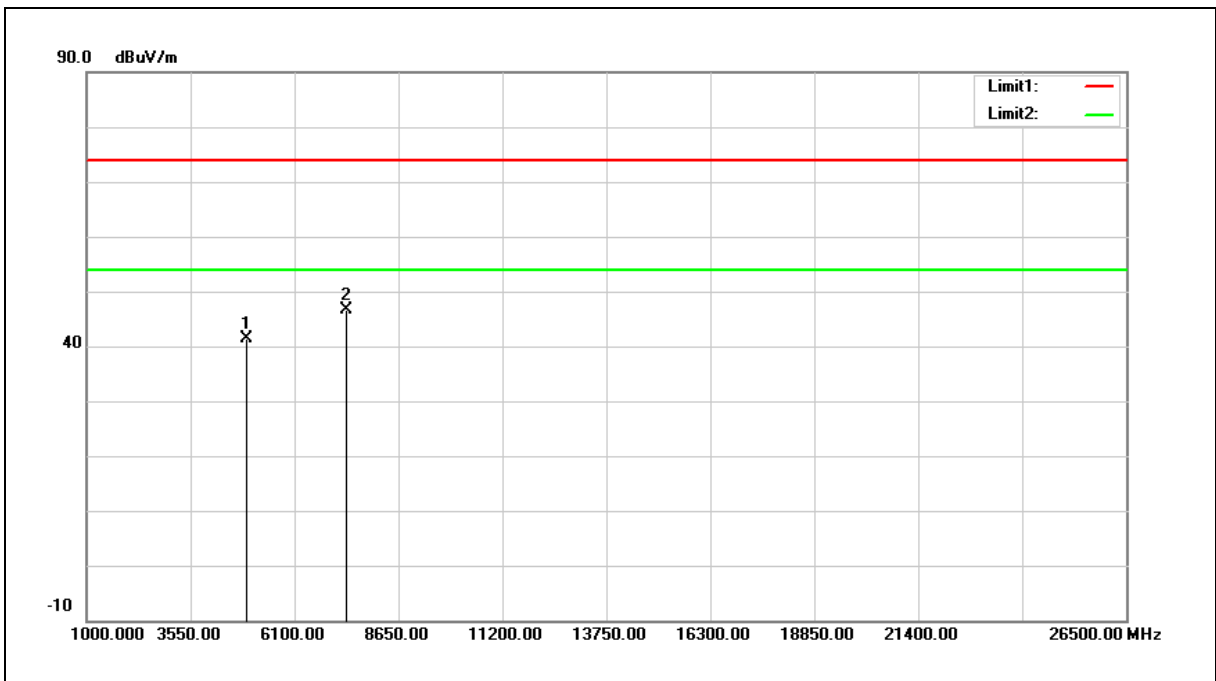
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.98	6.28	41.26	74.00	-32.74	peak
2	7386.000	33.58	12.99	46.57	74.00	-27.43	peak

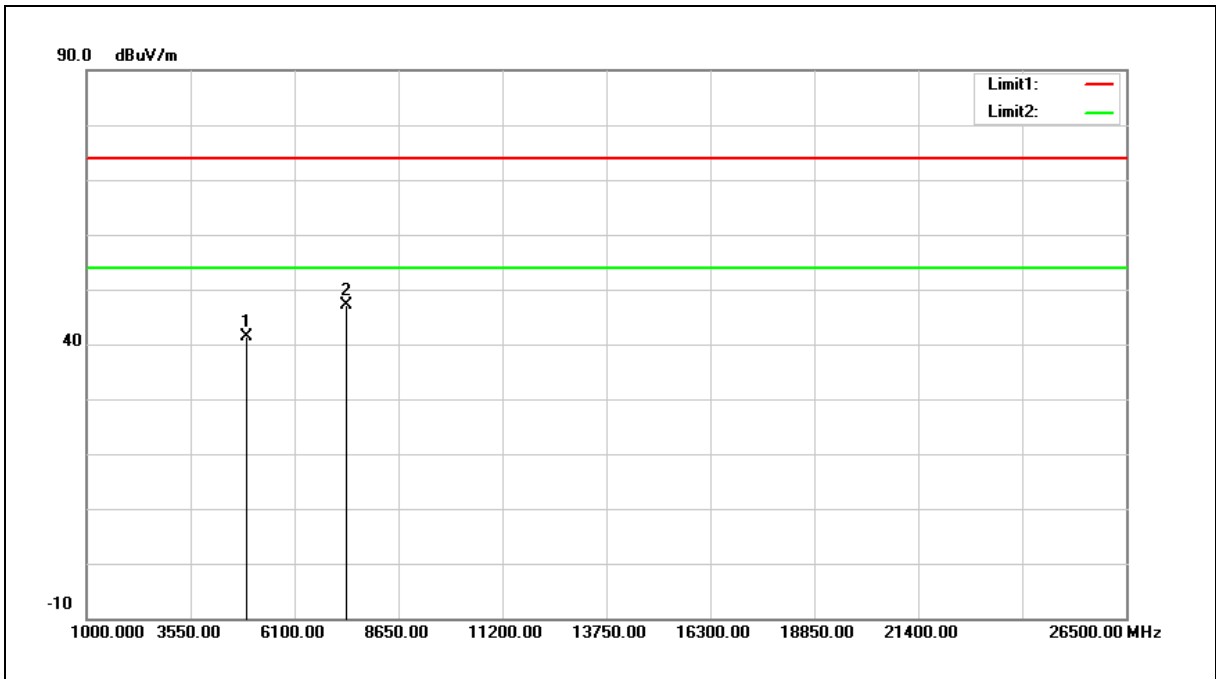
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.21	6.28	41.49	74.00	-32.51	peak
2	7386.000	34.06	12.99	47.05	74.00	-26.95	peak

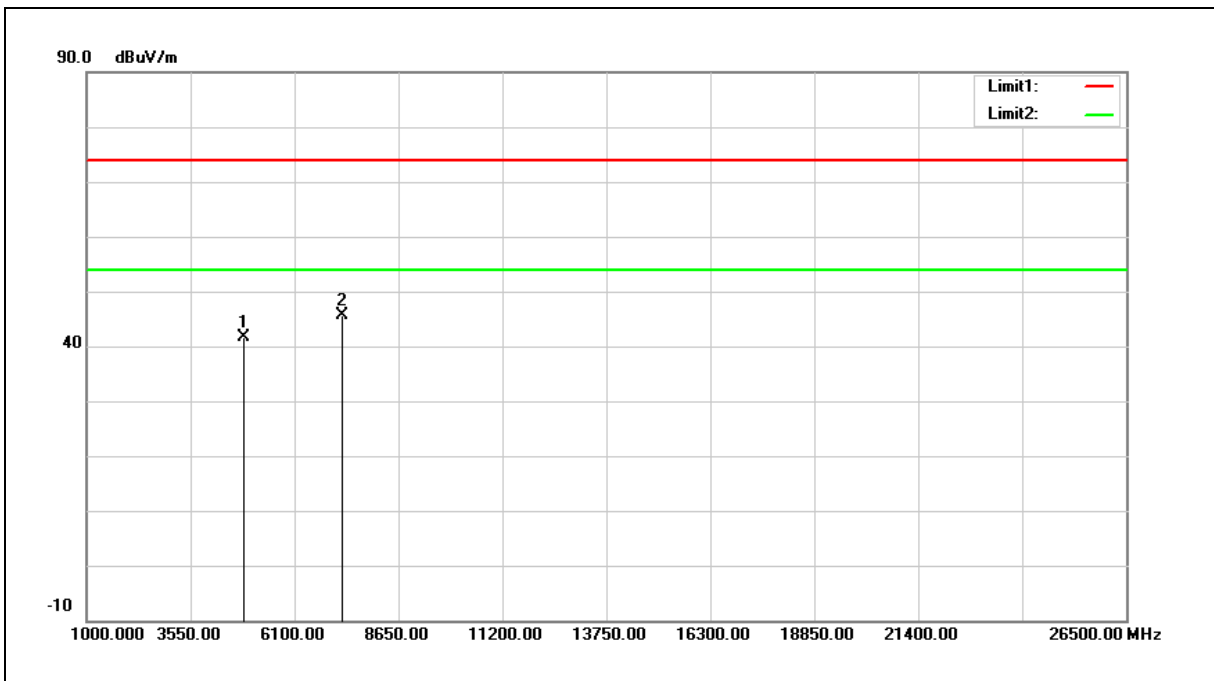
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	35.59	6.04	41.63	74.00	-32.37	peak
2	7266.000	33.10	12.59	45.69	74.00	-28.31	peak

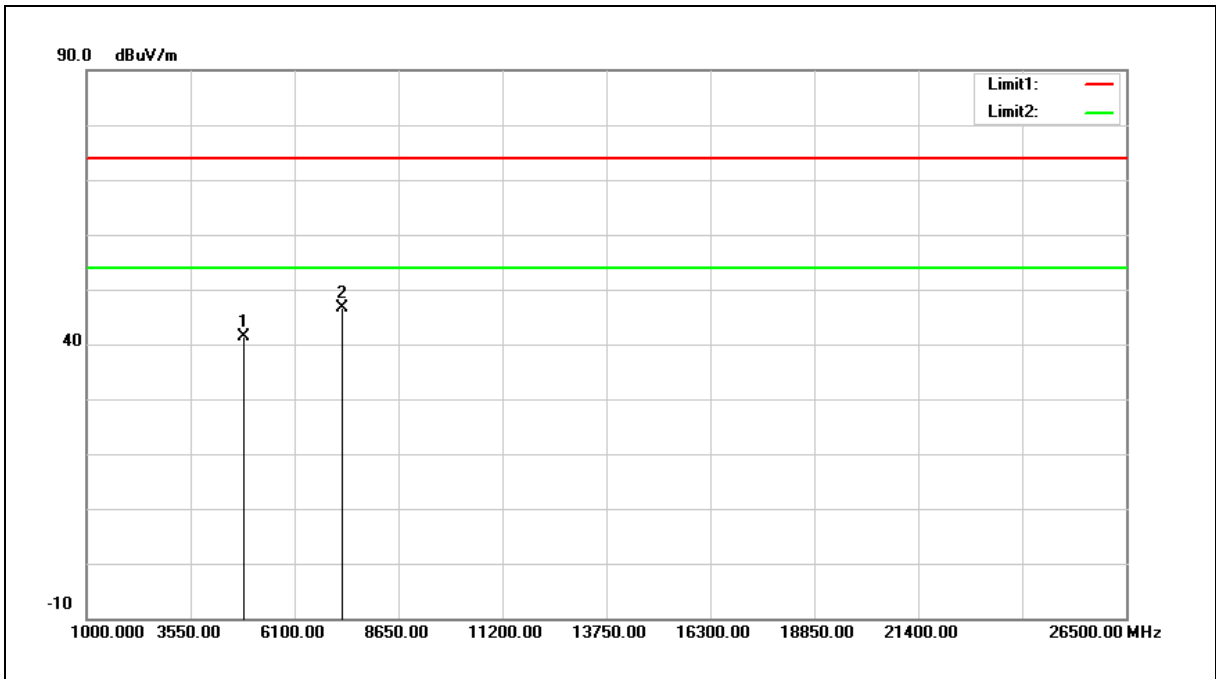
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	35.38	6.04	41.42	74.00	-32.58	peak
2	7266.000	34.14	12.59	46.73	74.00	-27.27	peak

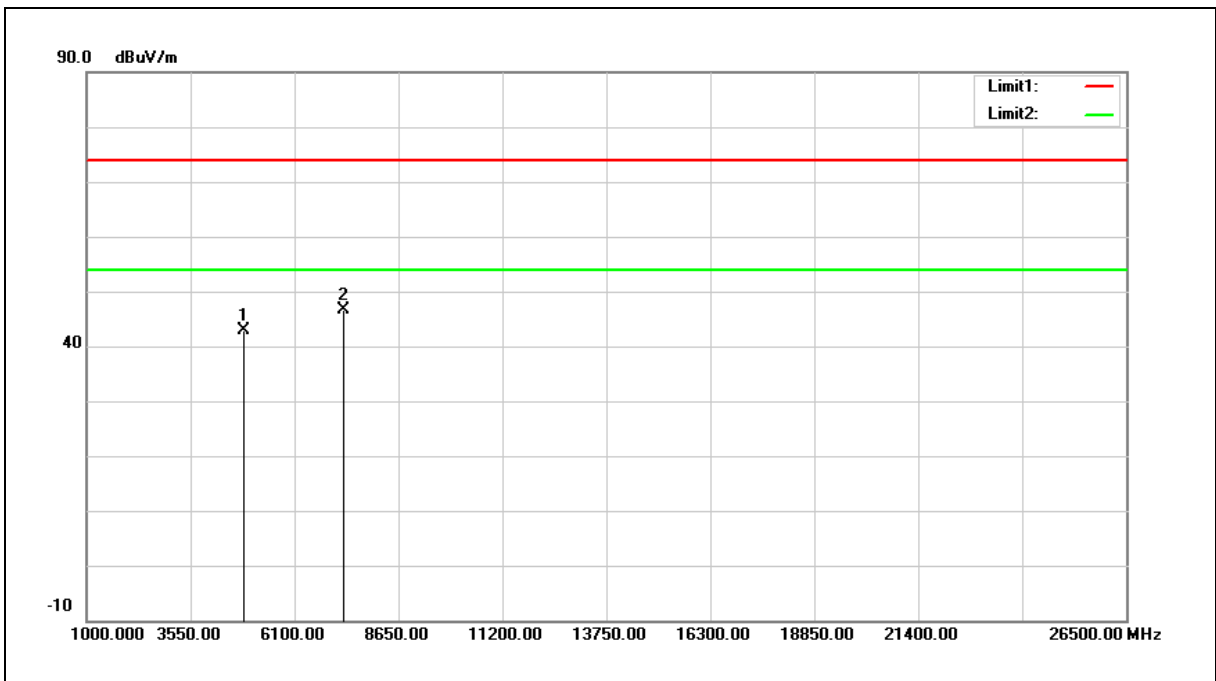
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	36.74	6.12	42.86	74.00	-31.14	peak
2	7311.000	33.78	12.73	46.51	74.00	-27.49	peak

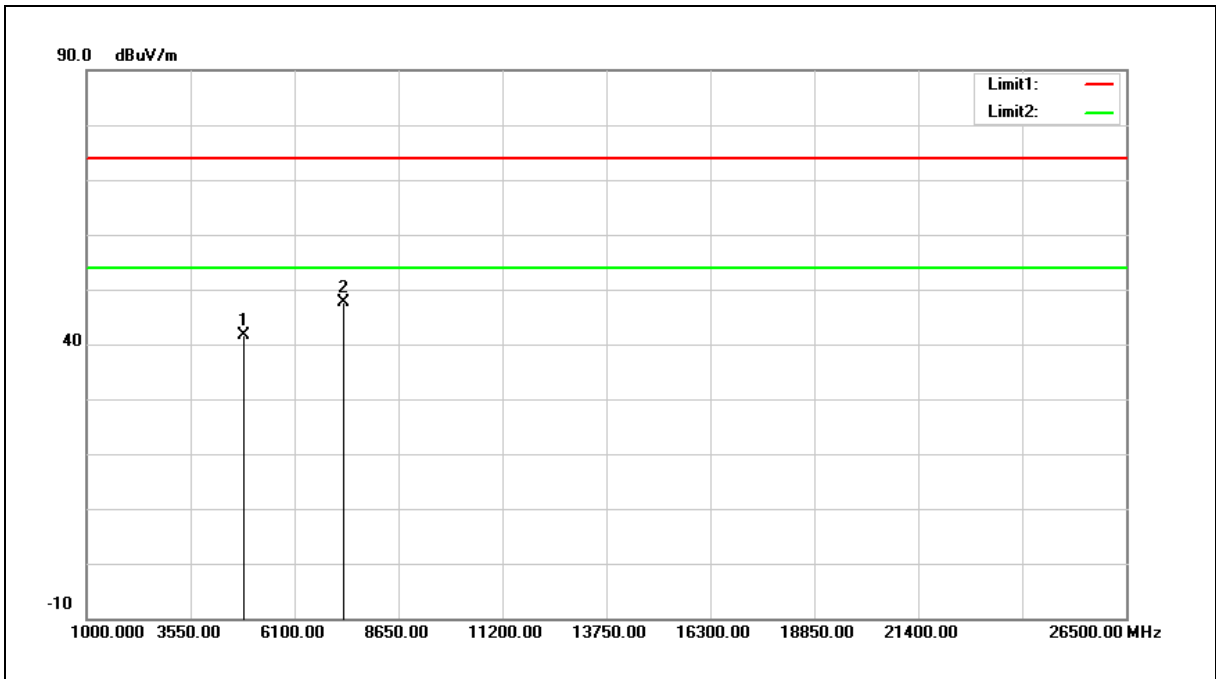
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	35.39	6.12	41.51	74.00	-32.49	peak
2	7311.000	35.00	12.73	47.73	74.00	-26.27	peak

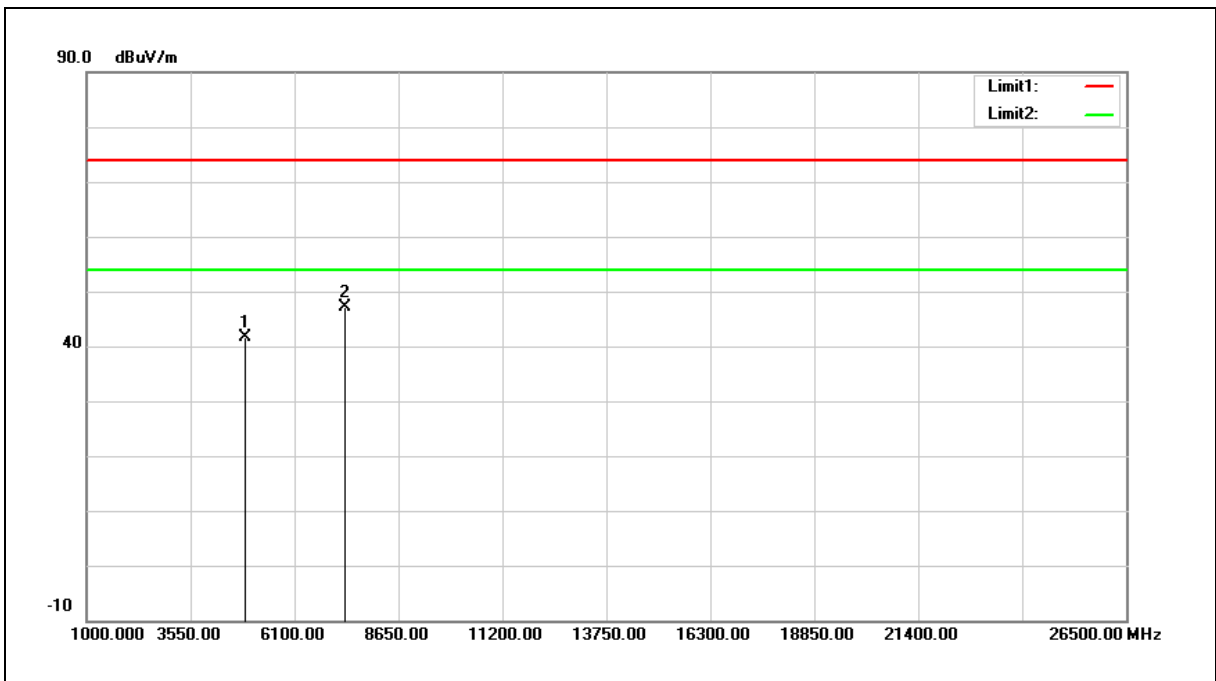
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	35.49	6.21	41.70	74.00	-32.30	peak
2	7356.000	34.13	12.89	47.02	74.00	-26.98	peak

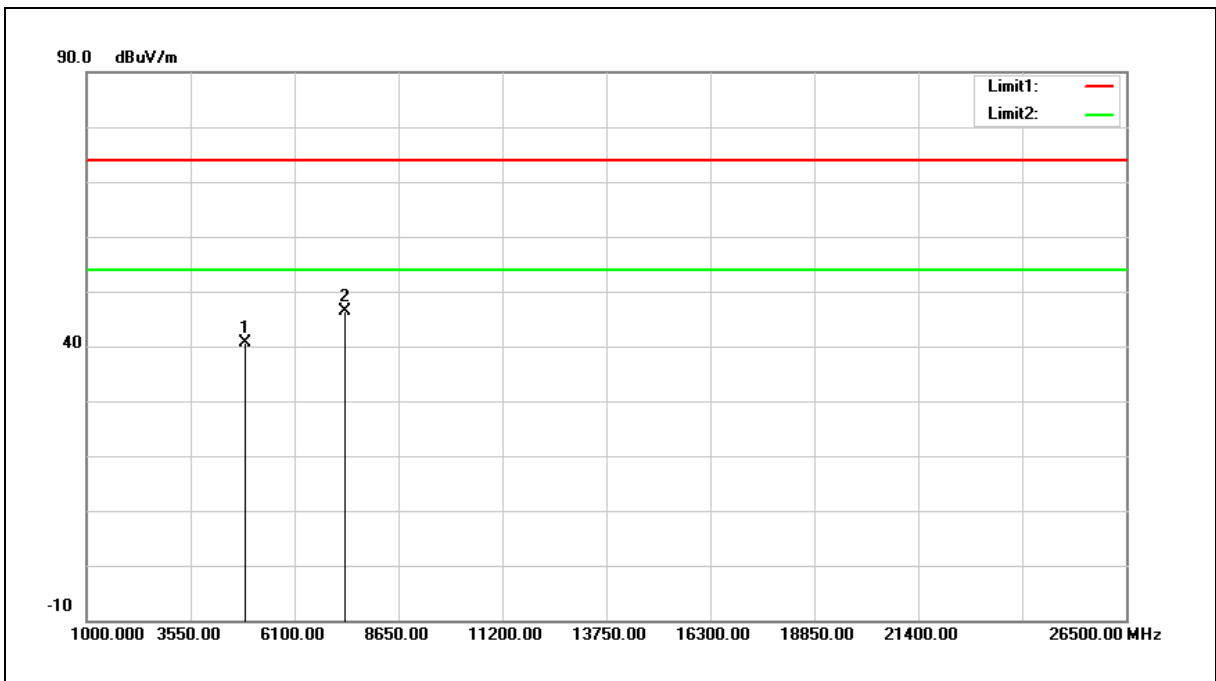
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	34.51	6.21	40.72	74.00	-33.28	peak
2	7356.000	33.59	12.89	46.48	74.00	-27.52	peak

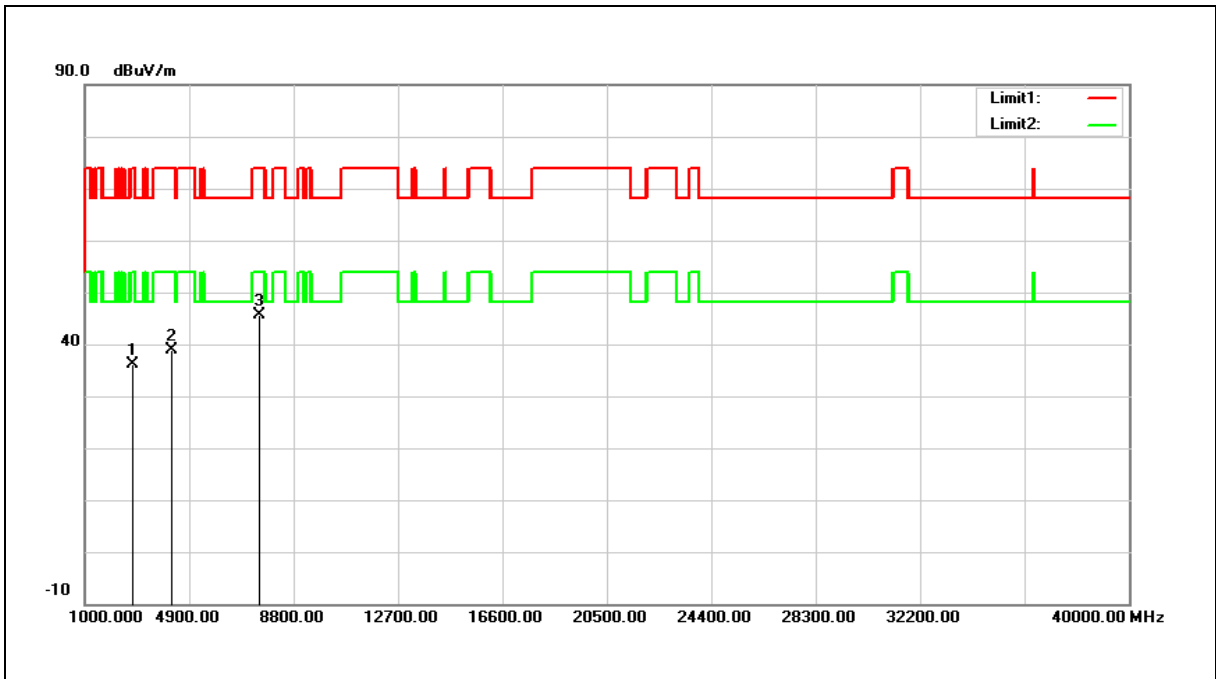
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Mode:	Simultaneous Transmitting (WLAN 5 GHz + WLAN 2.4 GHz)	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Ant.Polar.:	Horizontal		



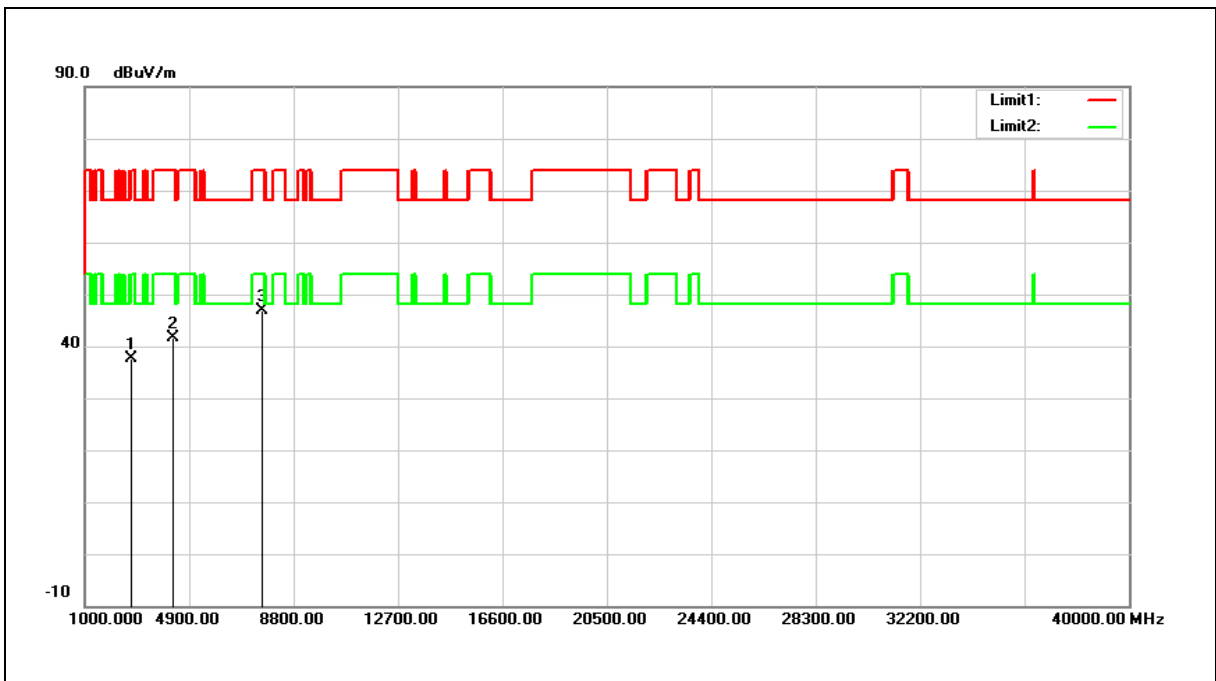
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2802.000	35.68	0.56	36.24	74.00	-37.76	peak
2	4230.000	34.43	4.46	38.89	74.00	-35.11	peak
3	7477.000	32.33	13.30	45.63	74.00	-28.37	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Mode:	Simultaneous Transmitting (WLAN 5 GHz + WLAN 2.4 GHz)	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2751.000	37.27	0.42	37.69	74.00	-36.31	peak
2	4298.000	37.08	4.60	41.68	74.00	-32.32	peak
3	7630.000	33.13	13.65	46.78	74.00	-27.22	peak

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

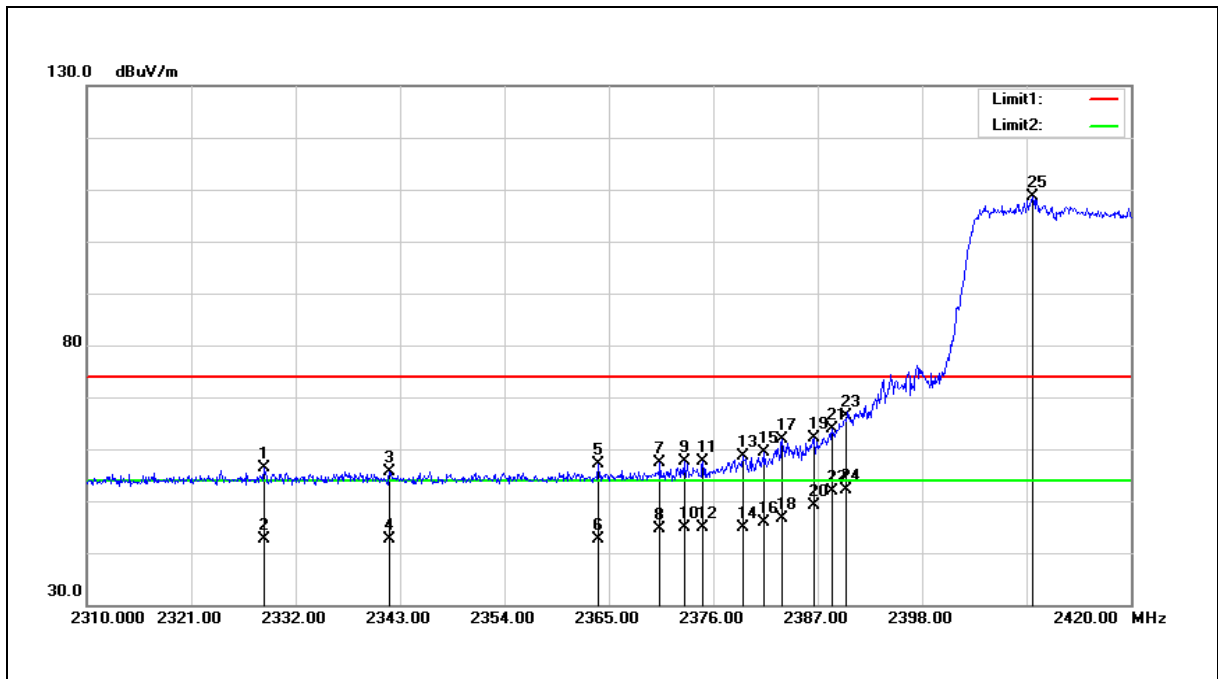
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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



Band Edge

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band Edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2328.700	57.53	-1.17	56.36	74.00	-17.64	peak
2	2328.700	43.79	-1.17	42.62	54.00	-11.38	AVG
3	2341.900	56.82	-1.11	55.71	74.00	-18.29	peak
4	2341.900	43.81	-1.11	42.70	54.00	-11.30	AVG
5	2363.900	58.17	-1.00	57.17	74.00	-16.83	peak
6	2363.900	43.66	-1.00	42.66	54.00	-11.34	AVG
7	2370.390	58.26	-0.97	57.29	74.00	-16.71	peak
8	2370.390	45.69	-0.97	44.72	54.00	-9.28	AVG
9	2372.920	58.60	-0.96	57.64	74.00	-16.36	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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2372.920	45.77	-0.96	44.81	54.00	-9.19	AVG
11	2374.900	58.66	-0.96	57.70	74.00	-16.30	peak
12	2374.900	45.82	-0.96	44.86	54.00	-9.14	AVG
13	2379.080	59.59	-0.93	58.66	74.00	-15.34	peak
14	2379.080	45.87	-0.93	44.94	54.00	-9.06	AVG
15	2381.390	60.20	-0.91	59.29	74.00	-14.71	peak
16	2381.390	46.70	-0.91	45.79	54.00	-8.21	AVG
17	2383.260	62.89	-0.91	61.98	74.00	-12.02	peak
18	2383.260	47.53	-0.91	46.62	54.00	-7.38	AVG
19	2386.560	63.02	-0.90	62.12	74.00	-11.88	peak
20	2386.560	50.04	-0.90	49.14	54.00	-4.86	AVG
21	2388.540	64.79	-0.88	63.91	74.00	-10.09	peak
22	2388.540	52.83	-0.88	51.95	54.00	-2.05	AVG
23	2390.000	67.13	-0.87	66.26	74.00	-7.74	peak
24	2390.000	53.11	-0.87	52.24	54.00	-1.76	AVG
25	2409.660	109.43	-0.78	108.65	--	--	peak

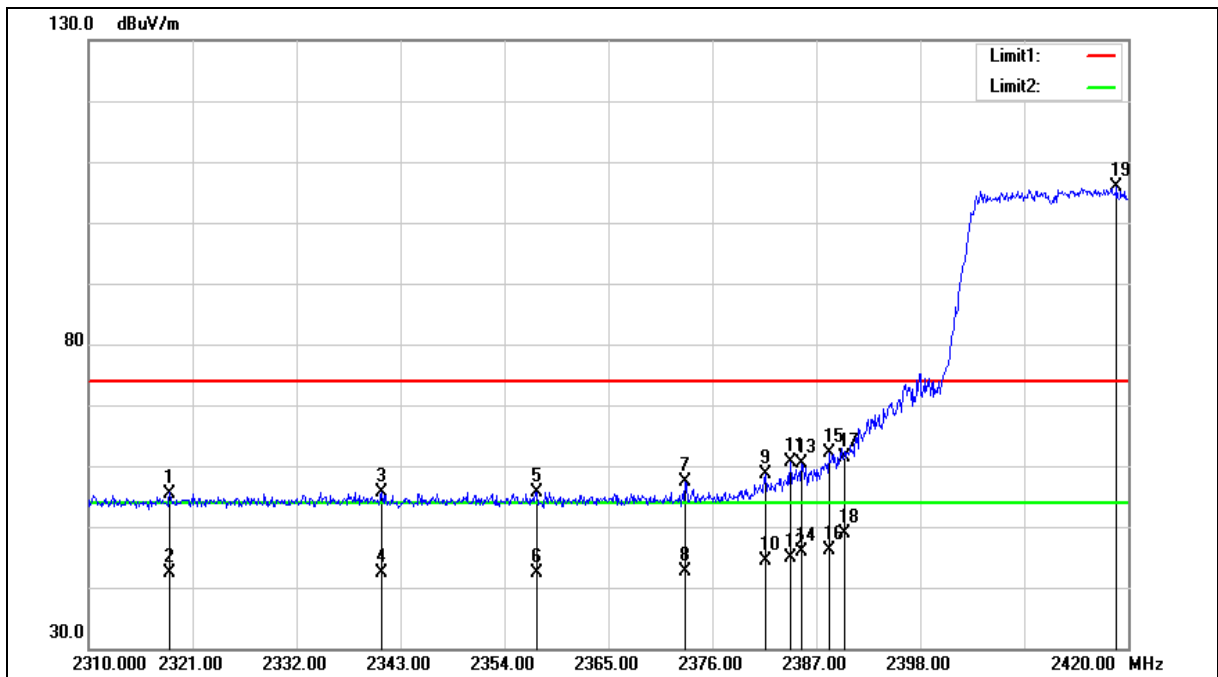
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2318.580	56.73	-1.23	55.50	74.00	-18.50	peak
2	2318.580	43.58	-1.23	42.35	54.00	-11.65	AVG
3	2341.020	56.86	-1.11	55.75	74.00	-18.25	peak
4	2341.020	43.51	-1.11	42.40	54.00	-11.60	AVG
5	2357.410	56.77	-1.04	55.73	74.00	-18.27	peak
6	2357.410	43.46	-1.04	42.42	54.00	-11.58	AVG
7	2373.140	58.37	-0.96	57.41	74.00	-16.59	peak
8	2373.140	43.66	-0.96	42.70	54.00	-11.30	AVG
9	2381.610	59.51	-0.91	58.60	74.00	-15.40	peak
10	2381.610	45.33	-0.91	44.42	54.00	-9.58	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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2318.580	56.73	-1.23	55.50	74.00	-18.50	peak
2	2318.580	43.58	-1.23	42.35	54.00	-11.65	AVG
3	2341.020	56.86	-1.11	55.75	74.00	-18.25	peak
4	2341.020	43.51	-1.11	42.40	54.00	-11.60	AVG
5	2357.410	56.77	-1.04	55.73	74.00	-18.27	peak
6	2357.410	43.46	-1.04	42.42	54.00	-11.58	AVG
7	2373.140	58.37	-0.96	57.41	74.00	-16.59	peak
8	2373.140	43.66	-0.96	42.70	54.00	-11.30	AVG
9	2381.610	59.51	-0.91	58.60	74.00	-15.40	peak
10	2381.610	45.33	-0.91	44.42	54.00	-9.58	AVG

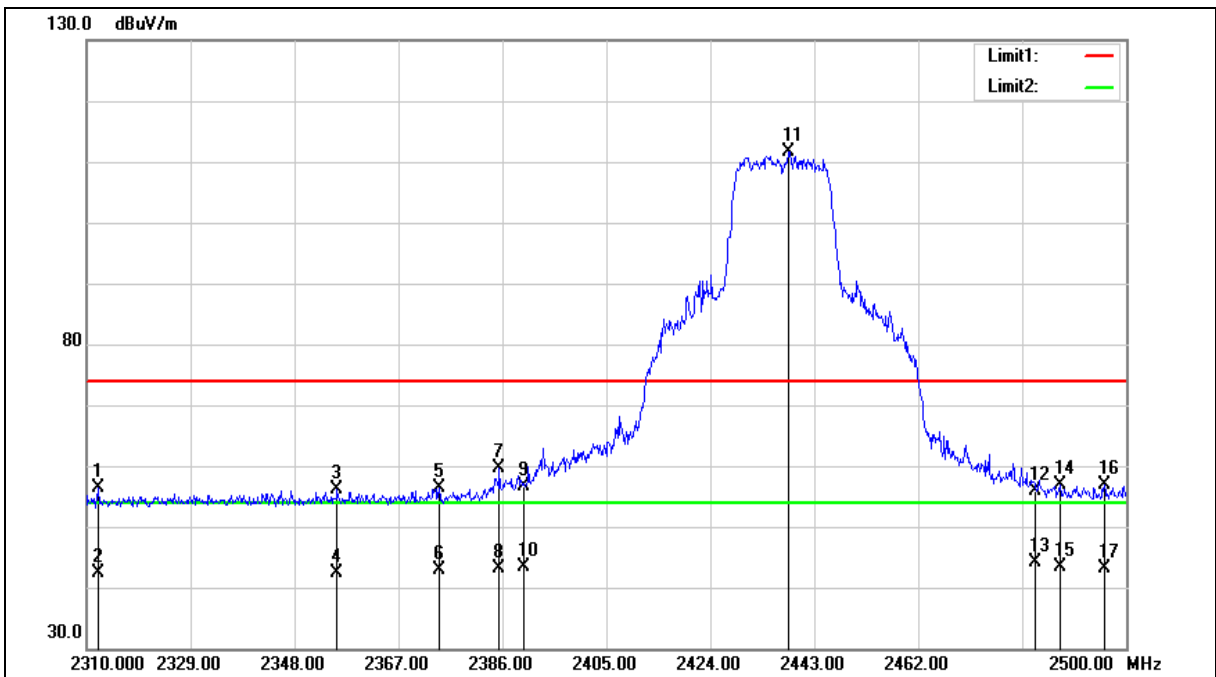
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2312.090	57.59	-1.26	56.33	74.00	-17.67	peak
2	2312.090	43.67	-1.26	42.41	54.00	-11.59	AVG
3	2355.790	57.23	-1.04	56.19	74.00	-17.81	peak
4	2355.790	43.39	-1.04	42.35	54.00	-11.65	AVG
5	2374.410	57.34	-0.96	56.38	74.00	-17.62	peak
6	2374.410	43.72	-0.96	42.76	54.00	-11.24	AVG
7	2385.430	60.44	-0.90	59.54	74.00	-14.46	peak
8	2385.430	43.99	-0.90	43.09	54.00	-10.91	AVG
9	2390.000	57.51	-0.87	56.64	74.00	-17.36	peak
10	2390.000	44.18	-0.87	43.31	54.00	-10.69	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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2438.250	112.25	-0.63	111.62	--	--	peak
12	2483.500	56.24	-0.40	55.84	74.00	-18.16	peak
13	2483.500	44.45	-0.40	44.05	54.00	-9.95	AVG
14	2487.840	57.36	-0.37	56.99	74.00	-17.01	peak
15	2487.840	43.86	-0.37	43.49	54.00	-10.51	AVG
16	2496.010	57.15	-0.33	56.82	74.00	-17.18	peak
17	2496.010	43.48	-0.33	43.15	54.00	-10.85	AVG

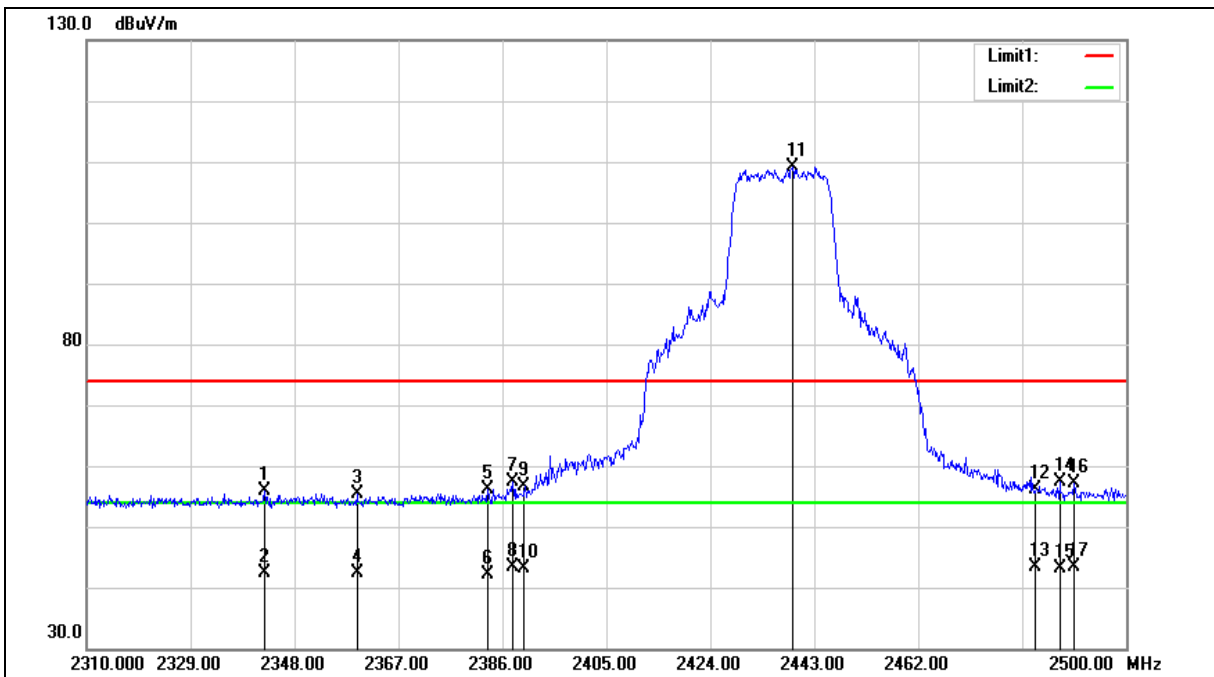
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2342.490	57.06	-1.11	55.95	74.00	-18.05	peak
2	2342.490	43.50	-1.11	42.39	54.00	-11.61	AVG
3	2359.400	56.37	-1.03	55.34	74.00	-18.66	peak
4	2359.400	43.44	-1.03	42.41	54.00	-11.59	AVG
5	2383.340	56.99	-0.91	56.08	74.00	-17.92	peak
6	2383.340	43.13	-0.91	42.22	54.00	-11.78	AVG
7	2387.900	58.14	-0.88	57.26	74.00	-16.74	peak
8	2387.900	44.18	-0.88	43.30	54.00	-10.70	AVG
9	2390.000	57.48	-0.87	56.61	74.00	-17.39	peak
10	2390.000	44.04	-0.87	43.17	54.00	-10.83	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 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2439.010	109.71	-0.62	109.09	--	--	peak
12	2483.500	56.58	-0.40	56.18	74.00	-17.82	peak
13	2483.500	43.70	-0.40	43.30	54.00	-10.70	AVG
14	2487.840	57.86	-0.37	57.49	74.00	-16.51	peak
15	2487.840	43.49	-0.37	43.12	54.00	-10.88	AVG
16	2490.500	57.41	-0.36	57.05	74.00	-16.95	peak
17	2490.500	43.75	-0.36	43.39	54.00	-10.61	AVG

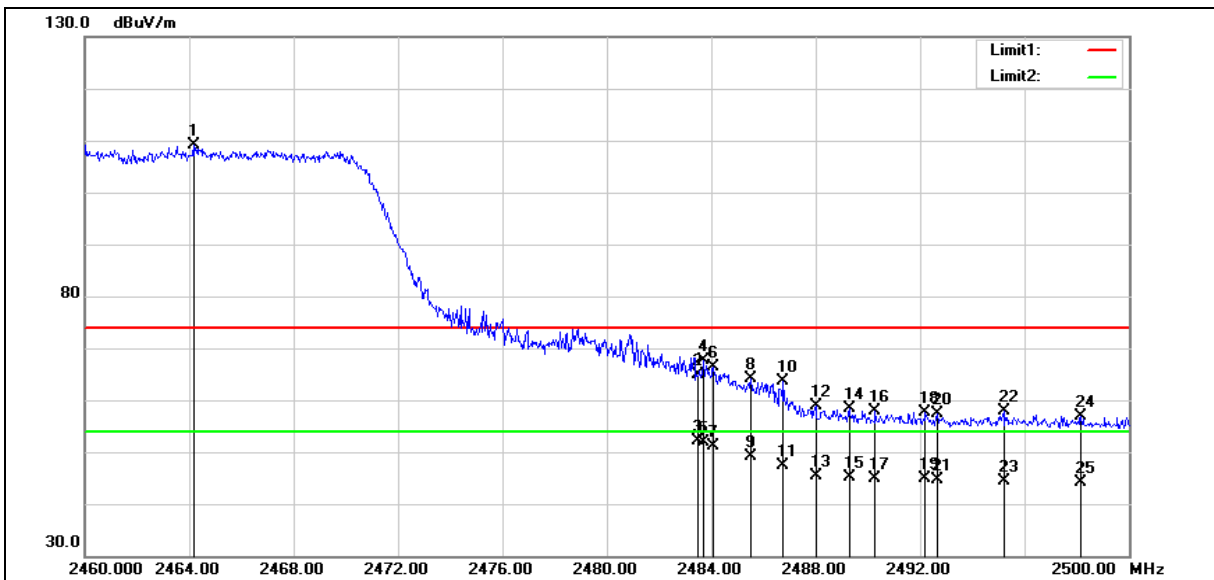
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.160	109.72	-0.49	109.23	--	--	peak
2	2483.500	65.26	-0.40	64.86	74.00	-9.14	peak
3	2483.500	52.59	-0.40	52.19	54.00	-1.81	AVG
4	2483.720	67.92	-0.40	67.52	74.00	-6.48	peak
5	2483.720	52.34	-0.40	51.94	54.00	-2.06	AVG
6	2484.080	66.77	-0.39	66.38	74.00	-7.62	peak
7	2484.080	51.42	-0.39	51.03	54.00	-2.97	AVG
8	2485.520	64.54	-0.38	64.16	74.00	-9.84	peak
9	2485.520	49.49	-0.38	49.11	54.00	-4.89	AVG
10	2486.760	64.01	-0.38	63.63	74.00	-10.37	peak
11	2486.760	47.82	-0.38	47.44	54.00	-6.56	AVG
12	2488.000	59.20	-0.37	58.83	74.00	-15.17	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.



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
13	2488.000	45.76	-0.37	45.39	54.00	-8.61	AVG
14	2489.280	58.73	-0.37	58.36	74.00	-15.64	peak
15	2489.280	45.42	-0.37	45.05	54.00	-8.95	AVG
16	2490.280	58.14	-0.36	57.78	74.00	-16.22	peak
17	2490.280	45.32	-0.36	44.96	54.00	-9.04	AVG
18	2492.200	57.94	-0.35	57.59	74.00	-16.41	peak
19	2492.200	45.20	-0.35	44.85	54.00	-9.15	AVG
20	2492.680	57.60	-0.34	57.26	74.00	-16.74	peak
21	2492.680	45.00	-0.34	44.66	54.00	-9.34	AVG
22	2495.200	58.16	-0.34	57.82	74.00	-16.18	peak
23	2495.200	44.70	-0.34	44.36	54.00	-9.64	AVG
24	2498.160	57.32	-0.32	57.00	74.00	-17.00	peak
25	2498.160	44.41	-0.32	44.09	54.00	-9.91	AVG

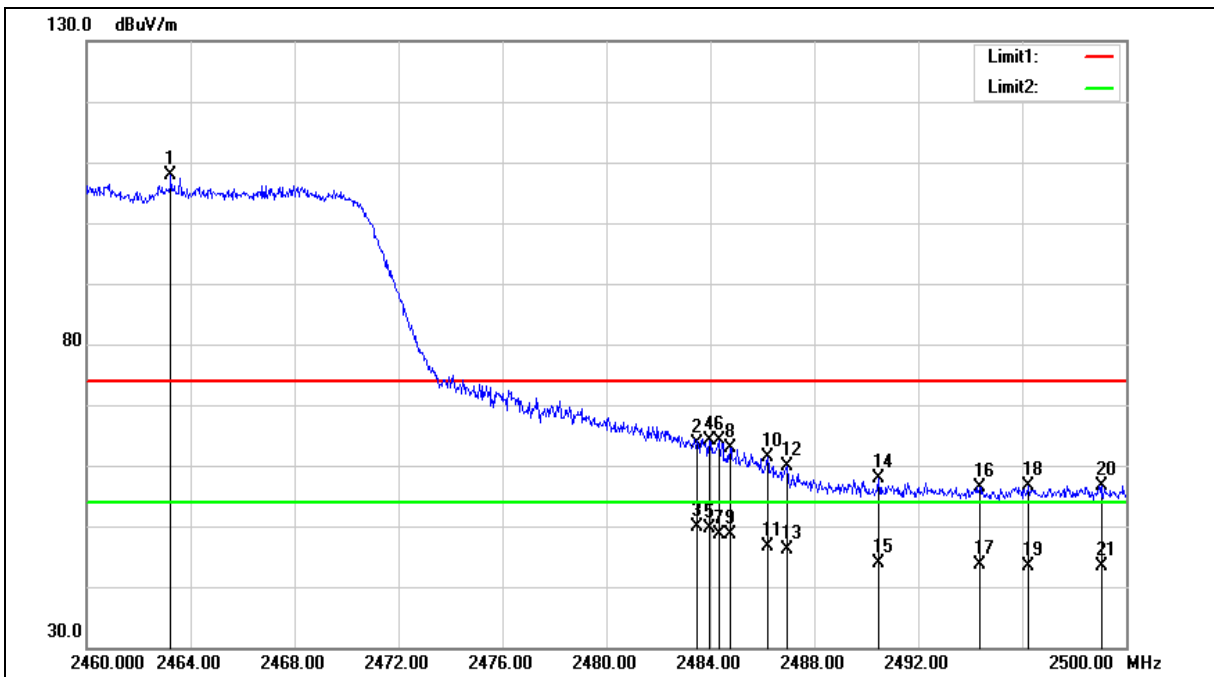
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.240	108.39	-0.49	107.90	--	--	peak
2	2483.500	64.01	-0.40	63.61	74.00	-10.39	peak
3	2483.500	50.19	-0.40	49.79	54.00	-4.21	AVG
4	2483.960	64.50	-0.39	64.11	74.00	-9.89	peak
5	2483.960	49.90	-0.39	49.51	54.00	-4.49	AVG
6	2484.360	64.49	-0.39	64.10	74.00	-9.90	peak
7	2484.360	49.08	-0.39	48.69	54.00	-5.31	AVG
8	2484.760	63.30	-0.39	62.91	74.00	-11.09	peak
9	2484.760	48.99	-0.39	48.60	54.00	-5.40	AVG
10	2486.200	61.76	-0.38	61.38	74.00	-12.62	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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2486.200	47.10	-0.38	46.72	54.00	-7.28	AVG
12	2486.960	60.13	-0.37	59.76	74.00	-14.24	peak
13	2486.960	46.38	-0.37	46.01	54.00	-7.99	AVG
14	2490.480	58.17	-0.36	57.81	74.00	-16.19	peak
15	2490.480	44.32	-0.36	43.96	54.00	-10.04	AVG
16	2494.360	56.72	-0.34	56.38	74.00	-17.62	peak
17	2494.360	44.05	-0.34	43.71	54.00	-10.29	AVG
18	2496.240	56.87	-0.33	56.54	74.00	-17.46	peak
19	2496.240	43.67	-0.33	43.34	54.00	-10.66	AVG
20	2499.080	56.93	-0.31	56.62	74.00	-17.38	peak
21	2499.080	43.58	-0.31	43.27	54.00	-10.73	AVG

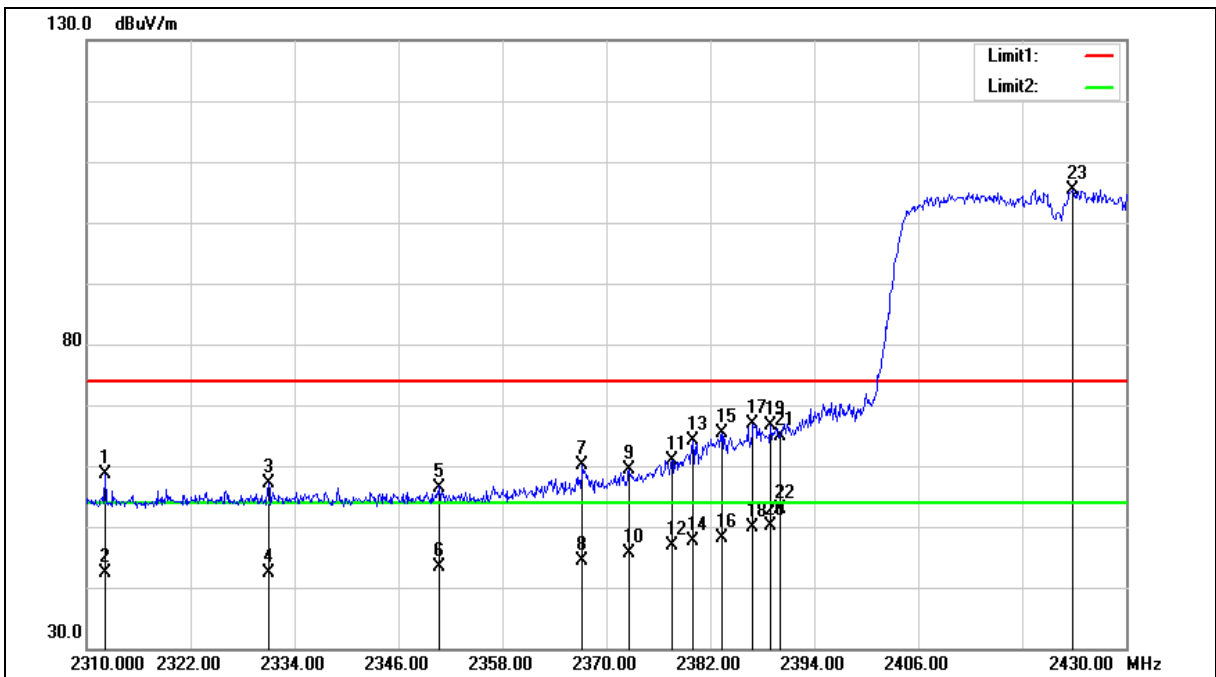
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2312.160	59.97	-1.26	58.71	74.00	-15.29	peak
2	2312.160	43.55	-1.26	42.29	54.00	-11.71	AVG
3	2331.000	58.26	-1.16	57.10	74.00	-16.90	peak
4	2331.000	43.48	-1.16	42.32	54.00	-11.68	AVG
5	2350.680	57.57	-1.07	56.50	74.00	-17.50	peak
6	2350.680	44.50	-1.07	43.43	54.00	-10.57	AVG
7	2367.240	61.19	-0.99	60.20	74.00	-13.80	peak
8	2367.240	45.25	-0.99	44.26	54.00	-9.74	AVG
9	2372.640	60.26	-0.96	59.30	74.00	-14.70	peak
10	2372.640	46.65	-0.96	45.69	54.00	-8.31	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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2377.560	61.87	-0.94	60.93	74.00	-13.07	peak
12	2377.560	47.83	-0.94	46.89	54.00	-7.11	AVG
13	2379.960	65.10	-0.93	64.17	74.00	-9.83	peak
14	2379.960	48.62	-0.93	47.69	54.00	-6.31	AVG
15	2383.320	66.26	-0.91	65.35	74.00	-8.65	peak
16	2383.320	49.10	-0.91	48.19	54.00	-5.81	AVG
17	2386.920	67.69	-0.88	66.81	74.00	-7.19	peak
18	2386.920	50.65	-0.88	49.77	54.00	-4.23	AVG
19	2388.960	67.53	-0.88	66.65	74.00	-7.35	peak
20	2388.960	50.89	-0.88	50.01	54.00	-3.99	AVG
21	2390.000	65.78	-0.87	64.91	74.00	-9.09	peak
22	2390.000	53.65	-0.87	52.78	54.00	-1.22	AVG
23	2423.880	106.19	-0.70	105.49	--	--	peak

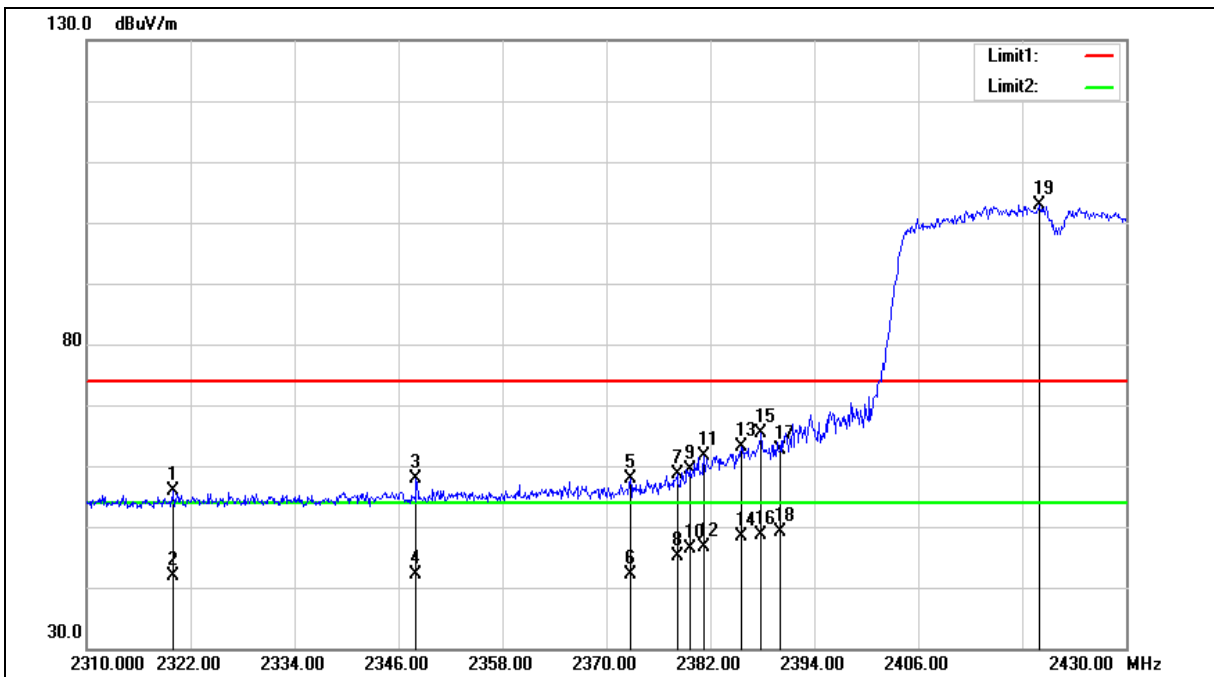
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2319.960	57.03	-1.22	55.81	74.00	-18.19	peak
2	2319.960	43.15	-1.22	41.93	54.00	-12.07	AVG
3	2348.040	58.93	-1.08	57.85	74.00	-16.15	peak
4	2348.040	43.13	-1.08	42.05	54.00	-11.95	AVG
5	2372.760	58.75	-0.96	57.79	74.00	-16.21	peak
6	2372.760	43.07	-0.96	42.11	54.00	-11.89	AVG
7	2378.160	59.54	-0.93	58.61	74.00	-15.39	peak
8	2378.160	46.12	-0.93	45.19	54.00	-8.81	AVG
9	2379.600	60.30	-0.93	59.37	74.00	-14.63	peak
10	2379.600	47.19	-0.93	46.26	54.00	-7.74	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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11	2381.280	62.53	-0.91	61.62	74.00	-12.38	peak
12	2381.280	47.62	-0.91	46.71	54.00	-7.29	AVG
13	2385.600	64.04	-0.90	63.14	74.00	-10.86	peak
14	2385.600	49.40	-0.90	48.50	54.00	-5.50	AVG
15	2387.880	66.18	-0.88	65.30	74.00	-8.70	peak
16	2387.880	49.47	-0.88	48.59	54.00	-5.41	AVG
17	2390.000	63.57	-0.87	62.70	74.00	-11.30	peak
18	2390.000	49.93	-0.87	49.06	54.00	-4.94	AVG
19	2419.920	103.67	-0.72	102.95	--	--	peak

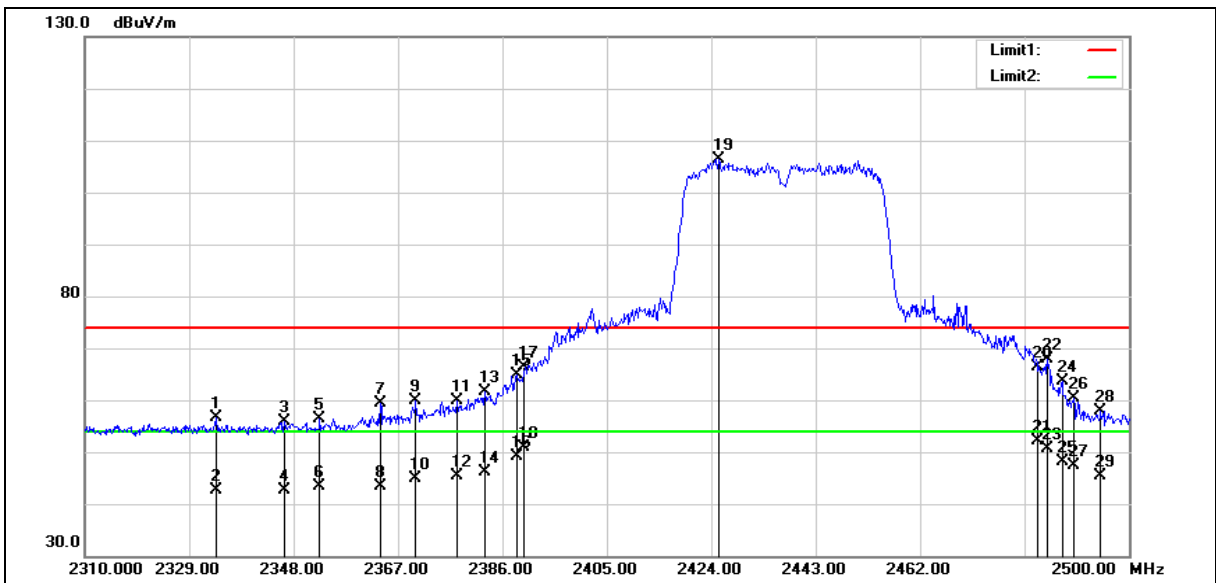
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2333.940	57.80	-1.15	56.65	74.00	-17.35	peak
2	2333.940	43.67	-1.15	42.52	54.00	-11.48	AVG
3	2346.290	56.98	-1.08	55.90	74.00	-18.10	peak
4	2346.290	43.70	-1.08	42.62	54.00	-11.38	AVG
5	2352.750	57.45	-1.05	56.40	74.00	-17.60	peak
6	2352.750	44.46	-1.05	43.41	54.00	-10.59	AVG
7	2363.770	60.35	-1.00	59.35	74.00	-14.65	peak
8	2363.770	44.50	-1.00	43.50	54.00	-10.50	AVG
9	2370.230	60.78	-0.97	59.81	74.00	-14.19	peak
10	2370.230	45.86	-0.97	44.89	54.00	-9.11	AVG
11	2377.640	60.75	-0.94	59.81	74.00	-14.19	peak
12	2377.640	46.28	-0.94	45.34	54.00	-8.66	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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
13	2382.770	62.43	-0.91	61.52	74.00	-12.48	peak
14	2382.770	47.13	-0.91	46.22	54.00	-7.78	AVG
15	2388.660	65.87	-0.88	64.99	74.00	-9.01	peak
16	2388.660	50.00	-0.88	49.12	54.00	-4.88	AVG
17	2390.000	67.15	-0.87	66.28	74.00	-7.72	peak
18	2390.000	51.69	-0.87	50.82	54.00	-3.18	AVG
19	2425.330	107.17	-0.69	106.48	--	--	peak
20	2483.500	66.66	-0.40	66.26	74.00	-7.74	peak
21	2483.500	52.65	-0.40	52.25	54.00	-1.75	AVG
22	2485.180	68.31	-0.39	67.92	74.00	-6.08	peak
23	2485.180	51.05	-0.39	50.66	54.00	-3.34	AVG
24	2487.840	63.91	-0.37	63.54	74.00	-10.46	peak
25	2487.840	48.46	-0.37	48.09	54.00	-5.91	AVG
26	2489.930	60.76	-0.36	60.40	74.00	-13.60	peak
27	2489.930	47.69	-0.36	47.33	54.00	-6.67	AVG
28	2494.870	58.21	-0.34	57.87	74.00	-16.13	peak
29	2494.870	45.69	-0.34	45.35	54.00	-8.65	AVG

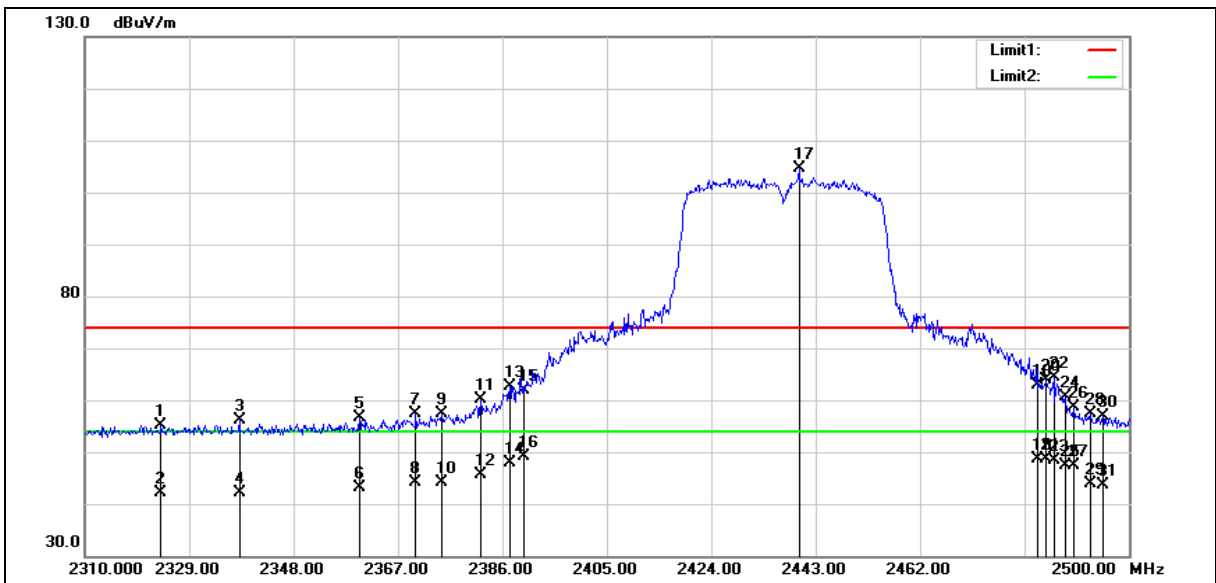
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2323.870	56.23	-1.20	55.03	74.00	-18.97	peak
2	2323.870	43.25	-1.20	42.05	54.00	-11.95	AVG
3	2338.120	57.24	-1.13	56.11	74.00	-17.89	peak
4	2338.120	43.22	-1.13	42.09	54.00	-11.91	AVG
5	2359.970	57.56	-1.03	56.53	74.00	-17.47	peak
6	2359.970	44.24	-1.03	43.21	54.00	-10.79	AVG
7	2370.230	58.26	-0.97	57.29	74.00	-16.71	peak
8	2370.230	44.98	-0.97	44.01	54.00	-9.99	AVG
9	2374.980	58.25	-0.96	57.29	74.00	-16.71	peak
10	2374.980	45.07	-0.96	44.11	54.00	-9.89	AVG
11	2323.870	56.23	-1.20	55.03	74.00	-18.97	peak
12	2323.870	43.25	-1.20	42.05	54.00	-11.95	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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
13	2387.330	63.57	-0.88	62.69	74.00	-11.31	peak
14	2387.330	48.85	-0.88	47.97	54.00	-6.03	AVG
15	2390.000	62.74	-0.87	61.87	74.00	-12.13	peak
16	2390.000	49.99	-0.87	49.12	54.00	-4.88	AVG
17	2439.960	105.15	-0.61	104.54	--	--	peak
18	2483.500	63.22	-0.40	62.82	74.00	-11.18	peak
19	2483.500	49.06	-0.40	48.66	54.00	-5.34	AVG
20	2484.990	64.26	-0.39	63.87	74.00	-10.13	peak
21	2484.990	48.90	-0.39	48.51	54.00	-5.49	AVG
22	2486.320	64.78	-0.38	64.40	74.00	-9.60	peak
23	2486.320	48.86	-0.38	48.48	54.00	-5.52	AVG
24	2488.410	61.09	-0.37	60.72	74.00	-13.28	peak
25	2488.410	47.87	-0.37	47.50	54.00	-6.50	AVG
26	2489.930	58.88	-0.36	58.52	74.00	-15.48	peak
27	2489.930	47.78	-0.36	47.42	54.00	-6.58	AVG
28	2492.970	57.69	-0.34	57.35	74.00	-16.65	peak
29	2492.970	44.23	-0.34	43.89	54.00	-10.11	AVG
30	2495.250	57.21	-0.34	56.87	74.00	-17.13	peak
31	2495.250	44.06	-0.34	43.72	54.00	-10.28	AVG

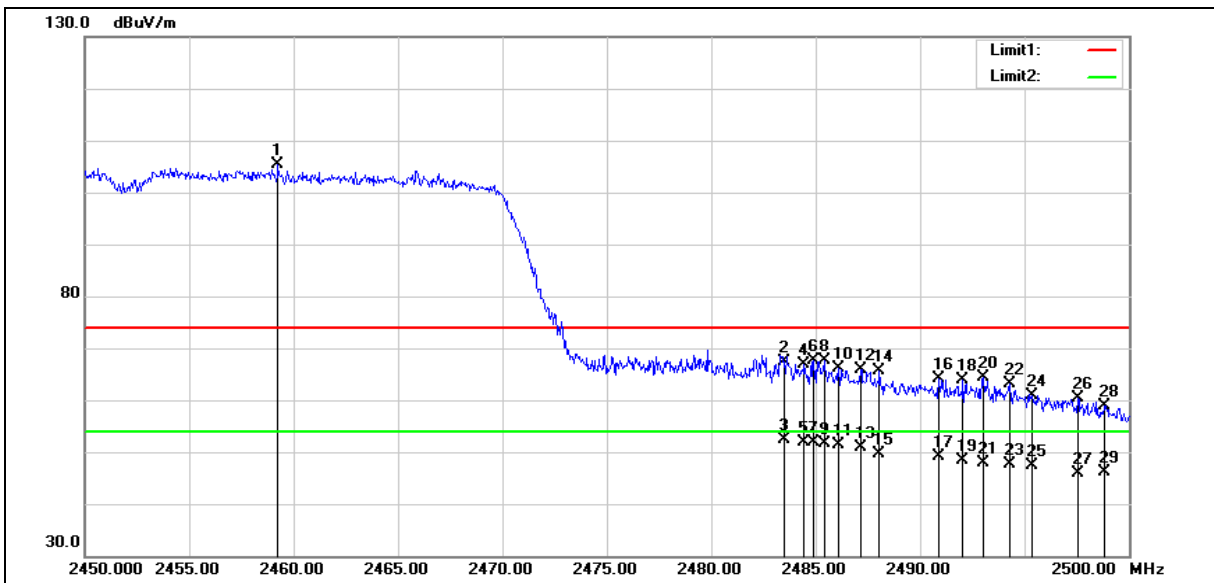
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.250	105.86	-0.52	105.34	--	--	peak
2	2483.500	67.86	-0.40	67.46	74.00	-6.54	peak
3	2483.500	52.75	-0.40	52.35	54.00	-1.65	AVG
4	2484.450	67.16	-0.39	66.77	74.00	-7.23	peak
5	2484.450	52.31	-0.39	51.92	54.00	-2.08	AVG
6	2484.900	68.08	-0.39	67.69	74.00	-6.31	peak
7	2484.900	52.19	-0.39	51.80	54.00	-2.20	AVG
8	2485.400	67.98	-0.39	67.59	74.00	-6.41	peak
9	2485.400	52.05	-0.39	51.66	54.00	-2.34	AVG
10	2486.100	66.46	-0.38	66.08	74.00	-7.92	peak
11	2486.100	51.73	-0.38	51.35	54.00	-2.65	AVG
12	2487.150	66.32	-0.37	65.95	74.00	-8.05	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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
13	2487.150	51.13	-0.37	50.76	54.00	-3.24	AVG
14	2488.050	66.04	-0.37	65.67	74.00	-8.33	peak
15	2488.050	50.08	-0.37	49.71	54.00	-4.29	AVG
16	2490.900	64.59	-0.36	64.23	74.00	-9.77	peak
17	2490.900	49.48	-0.36	49.12	54.00	-4.88	AVG
18	2492.050	64.23	-0.35	63.88	74.00	-10.12	peak
19	2492.050	48.65	-0.35	48.30	54.00	-5.70	AVG
20	2493.000	64.64	-0.34	64.30	74.00	-9.70	peak
21	2493.000	48.22	-0.34	47.88	54.00	-6.12	AVG
22	2494.300	63.41	-0.34	63.07	74.00	-10.93	peak
23	2494.300	47.86	-0.34	47.52	54.00	-6.48	AVG
24	2495.350	61.26	-0.34	60.92	74.00	-13.08	peak
25	2495.350	47.62	-0.34	47.28	54.00	-6.72	AVG
26	2497.550	60.70	-0.32	60.38	74.00	-13.62	peak
27	2497.550	46.32	-0.32	46.00	54.00	-8.00	AVG
28	2498.850	59.24	-0.31	58.93	74.00	-15.07	peak
29	2498.850	46.54	-0.31	46.23	54.00	-7.77	AVG

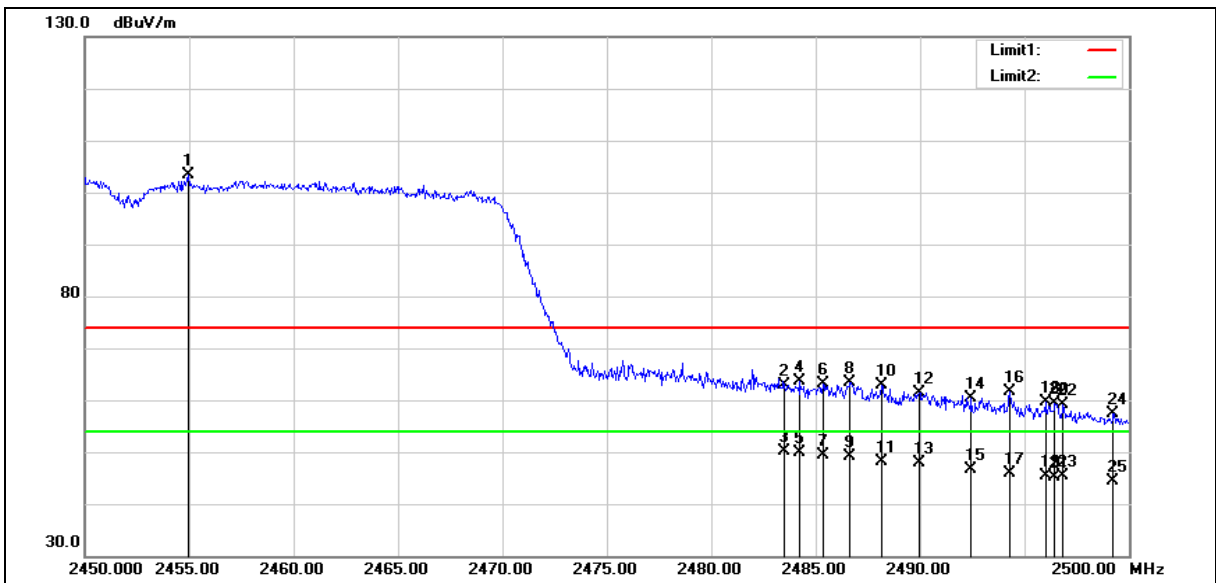
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.950	103.89	-0.54	103.35	--	--	peak
2	2483.500	63.39	-0.40	62.99	74.00	-11.01	peak
3	2483.500	50.54	-0.40	50.14	54.00	-3.86	AVG
4	2484.250	63.99	-0.39	63.60	74.00	-10.40	peak
5	2484.250	50.21	-0.39	49.82	54.00	-4.18	AVG
6	2485.350	63.41	-0.39	63.02	74.00	-10.98	peak
7	2485.350	49.72	-0.39	49.33	54.00	-4.67	AVG
8	2486.650	63.86	-0.38	63.48	74.00	-10.52	peak
9	2486.650	49.39	-0.38	49.01	54.00	-4.99	AVG
10	2488.150	63.26	-0.37	62.89	74.00	-11.11	peak
11	2488.150	48.54	-0.37	48.17	54.00	-5.83	AVG
12	2489.950	61.84	-0.36	61.48	74.00	-12.52	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	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
13	2489.950	48.12	-0.36	47.76	54.00	-6.24	AVG
14	2492.450	60.79	-0.35	60.44	74.00	-13.56	peak
15	2492.450	47.01	-0.35	46.66	54.00	-7.34	AVG
16	2494.300	61.85	-0.34	61.51	74.00	-12.49	peak
17	2494.300	46.29	-0.34	45.95	54.00	-8.05	AVG
18	2496.000	59.92	-0.33	59.59	74.00	-14.41	peak
19	2496.000	45.72	-0.33	45.39	54.00	-8.61	AVG
20	2496.450	59.59	-0.33	59.26	74.00	-14.74	peak
21	2496.450	45.48	-0.33	45.15	54.00	-8.85	AVG
22	2496.850	59.55	-0.33	59.22	74.00	-14.78	peak
23	2496.850	45.73	-0.33	45.40	54.00	-8.60	AVG
24	2499.250	57.73	-0.31	57.42	74.00	-16.58	peak
25	2499.250	44.80	-0.31	44.49	54.00	-9.51	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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