

RF Test Report

Applicant : Emplus Technologies, Inc
Product Type : 4x4 AX Dual-band AP
Trade Name : emplus
Model Number : WAP380-C
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Received Date : Feb. 08, 2021
Test Period : Feb. 18 ~ Feb. 23, 2021
Issued Date : Apr. 15, 2021

Issued by

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



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

Note:

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



Revision History

Rev.	Issued Date	Revisions	Revised By
00	Mar. 10, 2021	Initial Issue	Tobey Cheng
01	Apr. 15, 2021	Update chapter 1.1 (P.5) Update chapter 2 (P.7)	Tobey Cheng

Verification of Compliance

Applicant : Emplus Technologies, Inc

Product Type : 4x4 AX Dual-band AP

Trade Name : emplus

Model Number : WAP380-C

FCC ID : 2AL6XWAP380-C1

EUT Rated Voltage : DC 12 V, 2.5 A (DC Power Adapter)
DC 54 V, 0.6 A (PoE injector (802.3af/at))

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

: Ken Yang

(Manager)

(Ken Yang)

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1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.207	AC Power Conducted Emission	PASS	-----
15.247(d)	Transmitter Radiated Emissions	PASS	Note 1
15.247(b)(3)	Max. Output Power	PASS	Note 1
15.247(a)(2)	6 dB RF Bandwidth	PASS	Note 2
15.247(e)	Maximum Power Spectral Density	PASS	Note 2
15.247(d)	Out of Band Conducted Spurious Emission	PASS	Note 2
15.203	Antenna Requirement	PASS	Note 2

Note 1 : Only verify part of the data, the other test data refer to the original FCC ID file and original report :
2008FR15 Rev.00, 2010FR12 Rev.01.

Note 2 : Complete measurement the WLAN 2.4 GHz b mode, the other test data refer to the original FCC ID file
and original report : 2008FR15 Rev.00, 2010FR12 Rev.01.

Decision Rule

- ☒ Uncertainty is not included.
- ☐ Uncertainty is included.

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 15.247 Meas Guidance v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES
KDB 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB
Radiated Emission	9 kHz ~ 30 MHz	2.2 dB
	30 MHz ~ 1000 MHz	5.1 dB
	1000 MHz ~ 18000 MHz	5.1 dB
	18000 MHz ~ 26500 MHz	4.4 dB
	26500 MHz ~ 40000 MHz	4.6 dB
Conducted Output Power	1.1 dB	
RF Bandwidth	4.7 %	
Power Spectral Density	1.1 dB	

2 EUT Description

Applicant	Emplus Technologies, Inc Bld B, 10F, No.209, Sec.1, Nangang Rd., Taipei City, Taiwan			
Manufacturer	Emplus Technologies., Inc. 10F., Building B, No.209, Sec. 1, Nangang Rd., Nangang Dist., Taipei City 115, Taiwan (R.O.C.)			
Product Type	4x4 AX Dual-band AP			
Trade Name	emplus			
Model Number	WAP380-C			
FCC ID	2AL6XWAP380-C1			
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 (64QAM)	20 MHz	Up to 288.8 Mbps
IEEE 802.11n 2.4 GHz 40 MHz	2422 ~ 2452	OFDM (64QAM)	40 MHz	Up to 600 Mbps
IEEE 802.11n 2.4 GHz 20 MHz	2412 ~ 2462	OFDM (256QAM)	20 MHz	Up to 364.8 Mbps
IEEE 802.11n 2.4 GHz 40 MHz	2422 ~ 2452	OFDM (256QAM)	40 MHz	Up to 800 Mbps
IEEE 802.11ax 2.4 GHz 20 MHz	2412 ~ 2452	OFDMA	20 MHz	MCS11
IEEE 802.11ax 2.4 GHz 40 MHz	2422 ~ 2452	OFDMA	40 MHz	MCS11
Antenna information	ANT	Model Number	Type	Max. Gain (dBi)
	ANT-0	5718A0514300	PIFA Antenna	3.70
	ANT-1	5718A0515300	PIFA Antenna	4.08
	ANT-2	5718A0516300	PIFA Antenna	4.12
	ANT-3	5718A0517300	PIFA Antenna	5.01
Antenna Delivery	See section 3.1			
Operate Temp. Range	0 ~ +40 °C			

Data re-use Description :

In accordance with KDB 484596 D01 c) Spot-check test data shall be based on Max. Output Power and Transmitter Radiated Emissions in the original FCC ID filing, should remain within the tune-up tolerance range specified for the product, and should be compliant with applicable rule part(s), After evaluation above, data re-use is applicable.

Original FCC ID : 2AL6XWAP380-C

Original Report : 2008FR15 Rev.00, 2010FR12 Rev.01



Frequency Band	Max. RF Output Power (W)
IEEE 802.11b	0.360
IEEE 802.11g	0.294
IEEE 802.11n 2.4 GHz 20 MHz (64QAM)	0.279
IEEE 802.11n 2.4 GHz 40 MHz (64QAM)	0.191
IEEE 802.11n 2.4 GHz 20 MHz (256QAM)	0.294
IEEE 802.11n 2.4 GHz 40 MHz (256QAM)	0.203
IEEE 802.11ax 2.4 GHz 20 MHz	0.297
IEEE 802.11ax 2.4 GHz 40 MHz	0.166

Beamforming on

Frequency Band	Max. RF Output Power (W)
IEEE 802.11n 2.4 GHz 20 MHz (64QAM)	0.067
IEEE 802.11n 2.4 GHz 40 MHz (64QAM)	0.043
IEEE 802.11n 2.4 GHz 20 MHz (256QAM)	0.070
IEEE 802.11n 2.4 GHz 40 MHz (256QAM)	0.046
IEEE 802.11ax 2.4 GHz 20 MHz	0.071
IEEE 802.11ax 2.4 GHz 40 MHz	0.037

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(64QAM) Continuous TX Mode
Mode 5: IEEE 802.11n 2.4 GHz 40 MHz(64QAM) Continuous TX Mode
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode
Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode
Mode 8: IEEE 802.11ax 2.4 GHz 20 MHz Continuous TX mode
Mode 9: IEEE 802.11ax 2.4 GHz 40 MHz Continuous TX mode

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

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

By preliminary testing and verifying three axis (X, Y 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-2	ANT-3	ANT-0+1+2+3
Mode 2	V	V	V	V	V
Mode 3	V	V	V	V	V
Mode 4	V	V	V	V	V
Mode 5	V	V	V	V	V
Mode 6	V	V	V	V	V
Mode 7	V	V	V	V	V
Mode 8	V	V	V	V	V
Mode 9	V	V	V	V	V

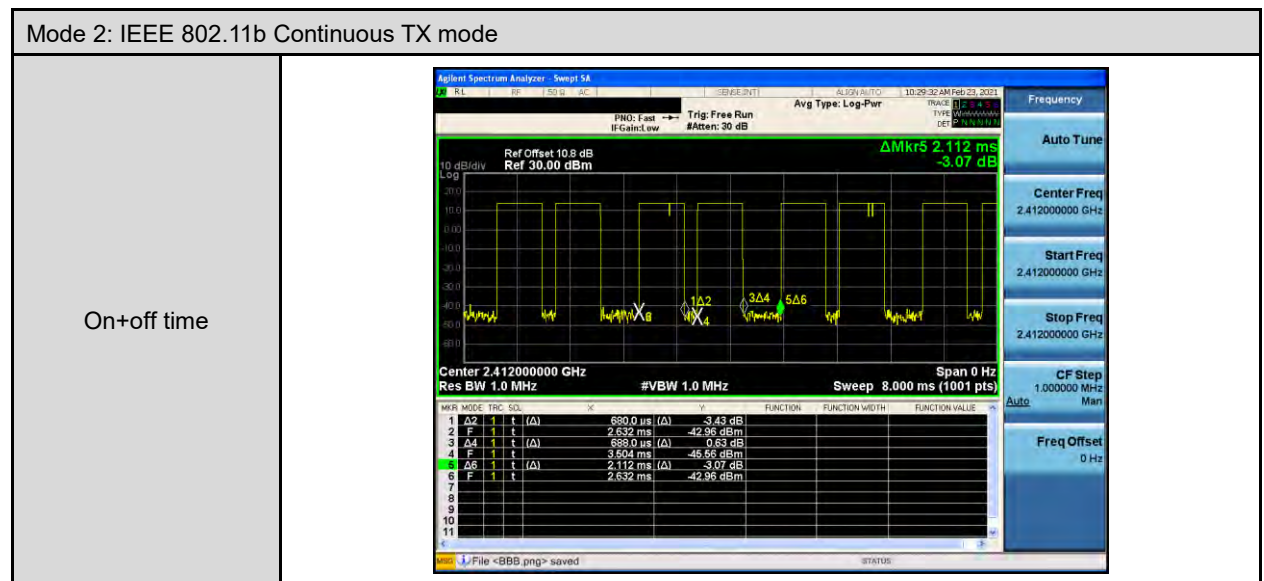
Test Mode	Antenna Delivery	Data Rate (Mbps)	Test Channel
Mode 2	4TX(CDD)	1	1, 6, 11
Mode 3	4TX(CDD)	6	1, 6, 11
Mode 4	4TX (STBC/Beamforming on)	26	1, 6, 11
Mode 5	4TX (STBC/Beamforming on)	54	3, 6, 9
Mode 6	4TX (STBC/Beamforming on)	26	1, 6, 11
Mode 7	4TX (STBC/Beamforming on)	54	3, 6, 9
Mode 8	4TX (STBC/Beamforming on)	MCS0	1, 6, 11
Mode 9	4TX (STBC/Beamforming on)	MCS0	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	1.368	2.112	0.648	1.886	0.731

Duty Cycle Graphs



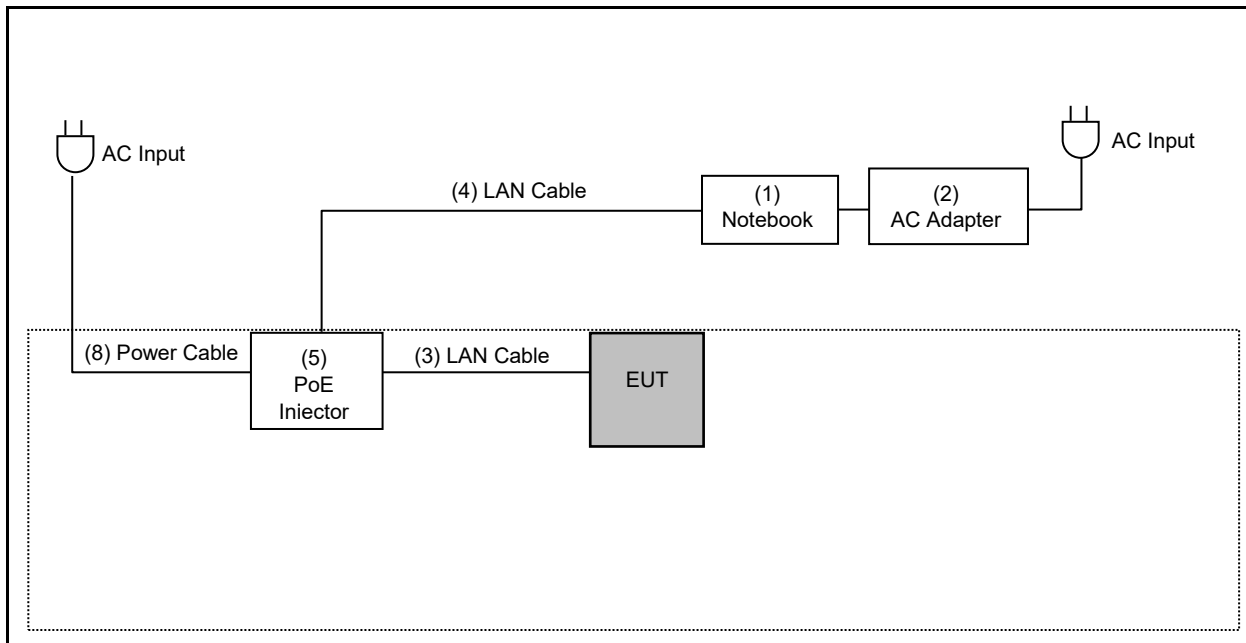
3.2. EUT Test Step

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

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

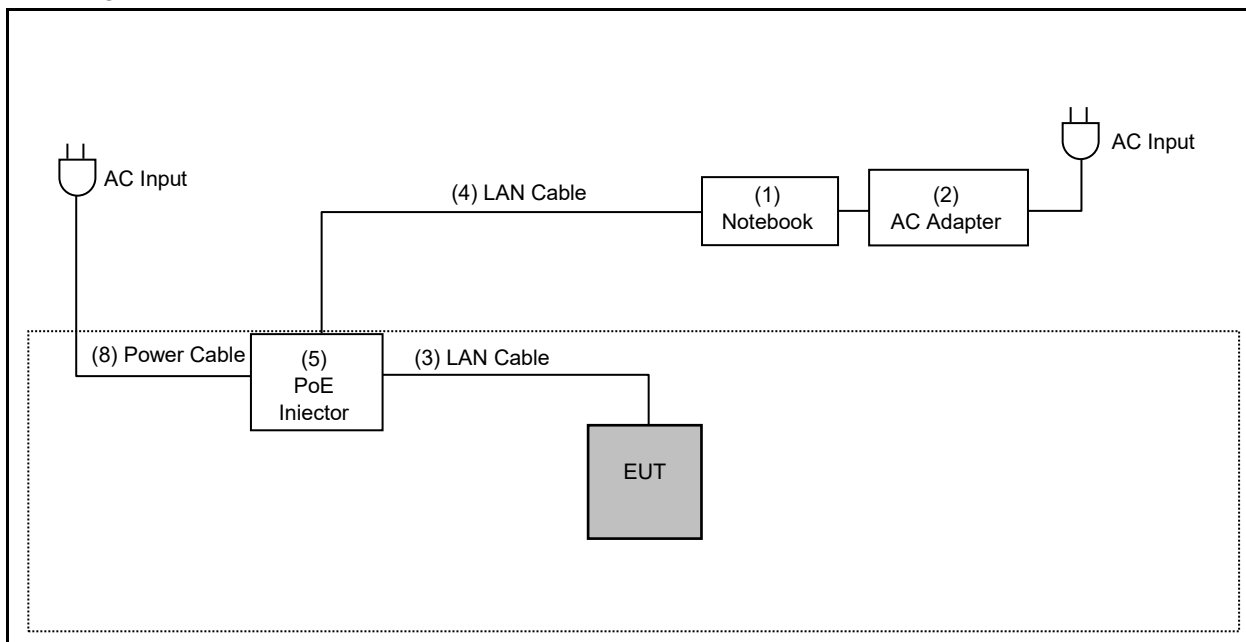
3.3. Configuration of Test System Details

Conducted Emission

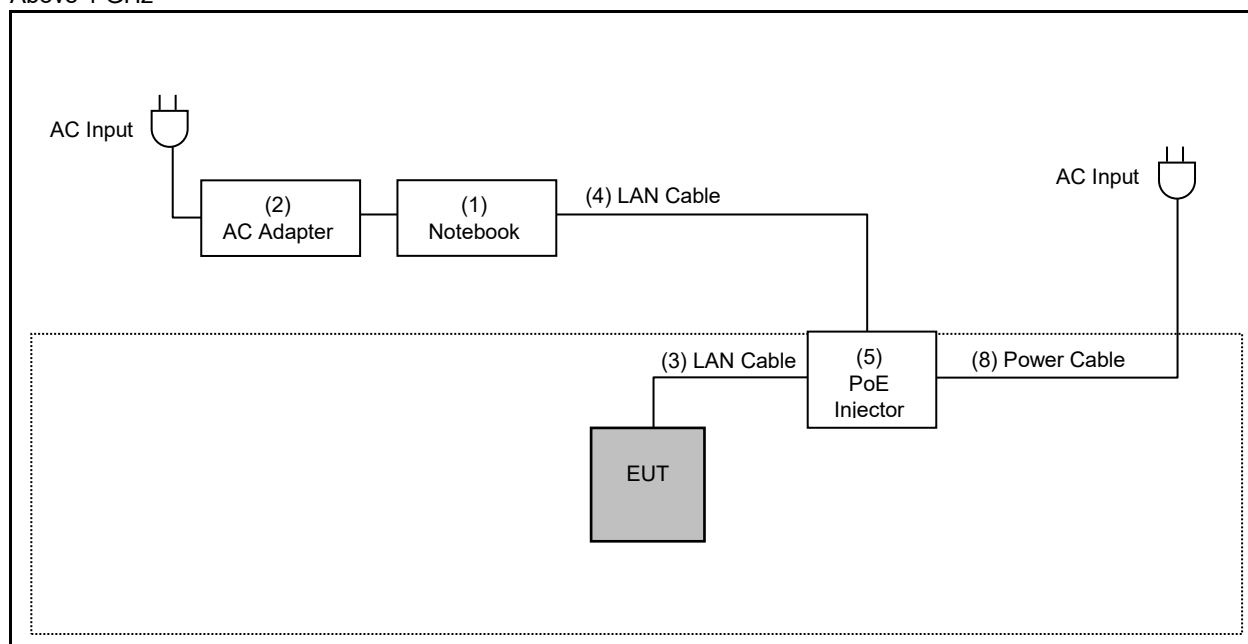


Radiated Emissions

Below 1 GHz



Above 1 GHz



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Remark
(1)	Notebook	ASUS	P1448U	K7NXCVC10P87329A	---
(2)	AC Adapter	ASUS	EXA1203YH	---	INPUT : 100-240 Vac , 50/60 Hz, 1.5 A OUTPUT : 19 Vdc, 3.42 A Non-Shielded, 0.8 m
(3)	LAN Cable	HUAWEI	UL2464	---	Non-Shielded, 1.2 m
(4)	LAN Cable	TATUNG	CAT5E	---	Non-Shielded, 10 m
(5)	PoE Injector	emplus	EPA5006GAT	---	INPUT : 100-240 Vac , 50/60 Hz, 0.8 A OUTPUT : 54 Vdc, 0.6 A
(6)	AC Adapter	DVE	DSA-24PFS-12 FUS	---	INPUT : 100-240 Vac , 50/60 Hz, 0.8 A OUTPUT : 12 Vdc, 2.0 A
(7)	AC Adapter	SPC	ZZU1588-250120-2A	---	INPUT : 100-240 Vac , 50/60 Hz, 1.5 A OUTPUT : 12 Vdc, 2.5 A
(8)	Power Cable	I-SHENG	IS-034	---	Non-Shielded, 0.5 m

Note : The device used (6) AC Adapter and (7) AC Adapter and (5) PoE Injector to evaluation AC Power line Conducted Emission, (5) PoE Injector is worst case to perform testing.



3.4. Test Instruments

For Conducted Emission

Test Period: Feb. 21, 2021

Testing Engineer: Louis Shen

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

For Radiated Emissions

Test Period: Feb. 18 ~ Feb. 19, 2021

Testing Engineer: Marc Yeh

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	01/18/2021	1 year
Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02237	10/21/2020	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A10961	07/03/2020	1 year
Broadband Antenna	Schwarzbeck	VULB9168	416	11/11/2020	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/17/2020	1 year
Horn Antenna (18~40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	08/18/2020	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	03/27/2020	1 year
RF Cable	EMCI	EMC104-N-N-6000	TE01-1	02/20/2020	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1 3000	170814	10/29/2020	1 year
Microwave Cable	EMCI	EMC102-KM-KM-1 4000	151001	02/20/2020	1 year

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



For Conducted

Test Period: Feb. 20 ~ Feb. 23, 2021

Testing Engineer: Peter Shui

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Power Sensor	Anritsu	MA2411B	1126022	09/01/2020	1 year
Power Meter	Anritsu	ML2495A	1135009	09/01/2020	1 year
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/24/2020	1 year

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

3.5. Test Site Environment

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

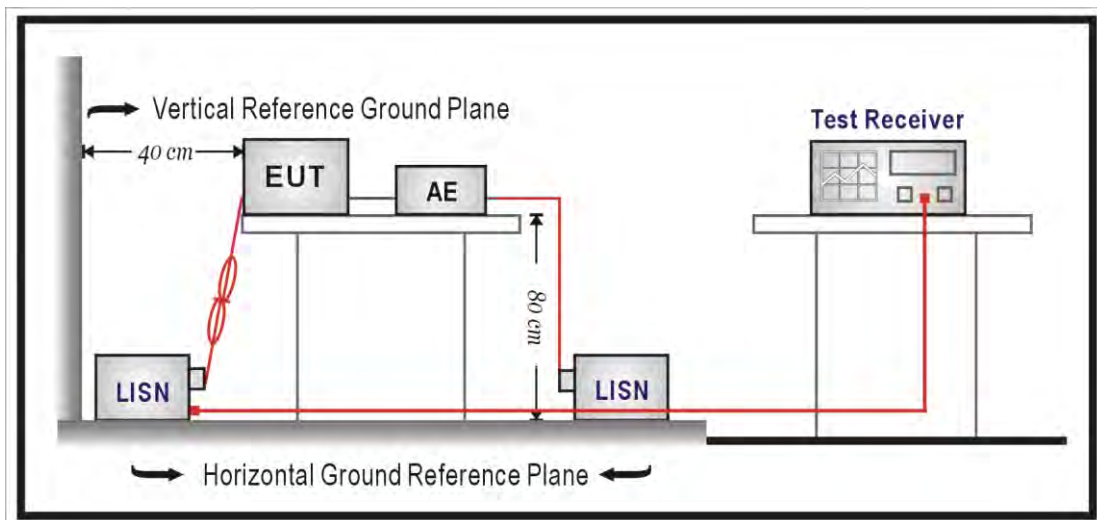
4 Measurement Procedure

4.1. AC Power Line Conducted Emission Measurement

■ Limit

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

■ Test Setup



■ Test Procedure

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

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

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

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω 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

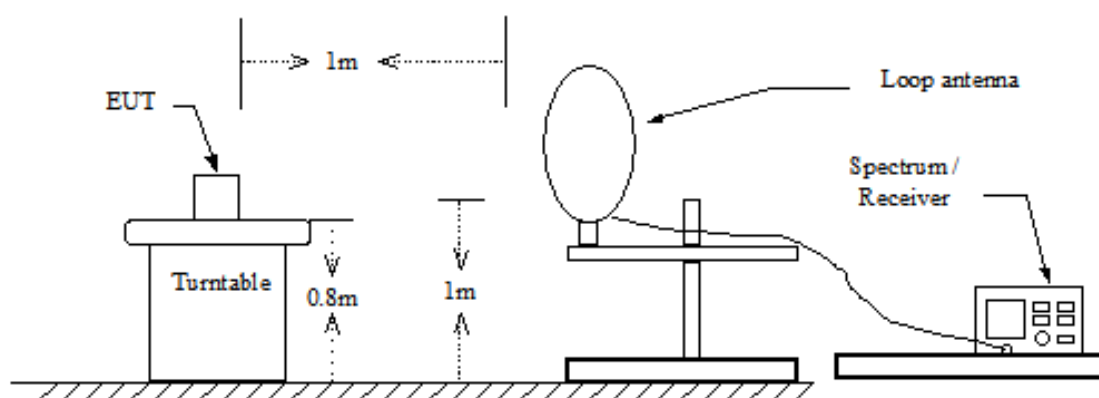
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

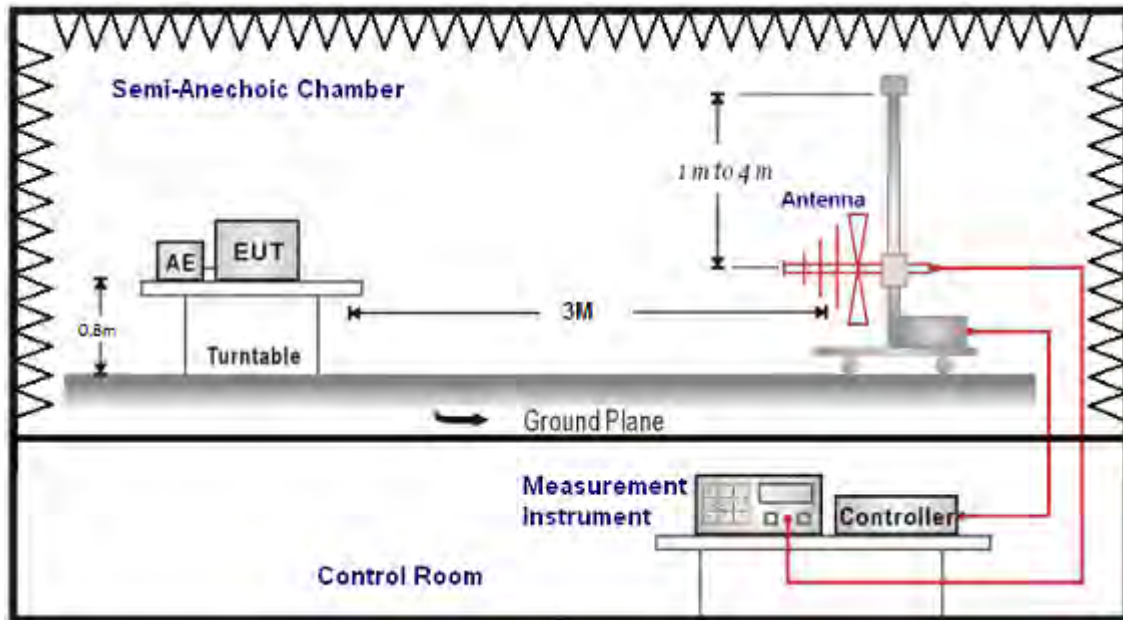
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

■ Setup

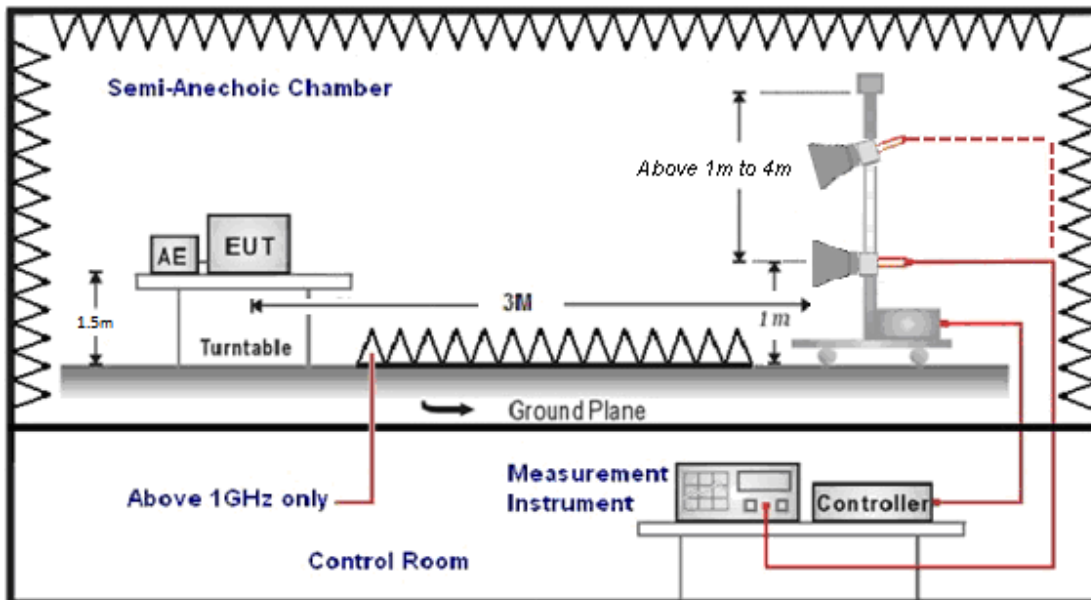
9 kHz ~ 30 MHz



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

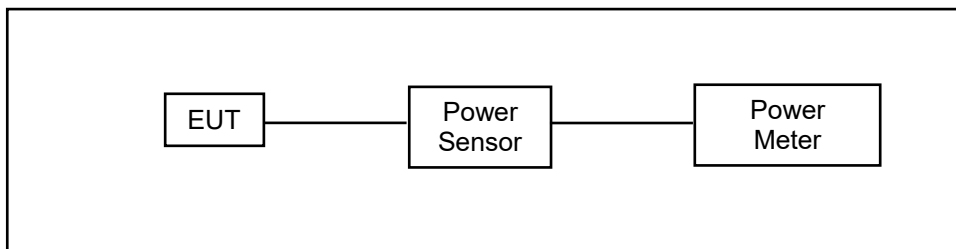
For systems using digital modulation in the 2400-2483.5 MHz, the limit for maximum output power is 30 dBm.

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 / STBC / BF mode :

* Directional = $G_{ANT} = 10 \cdot \log\left\{\frac{10^{(G1/10)} + 10^{(G2/10)} + \dots + 10^{(Gn/10)}}{NANT}\right\} = 4.25 \text{ dBi} < 6 \text{ dBi}$

■ Test Setup



■ Test Procedure

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

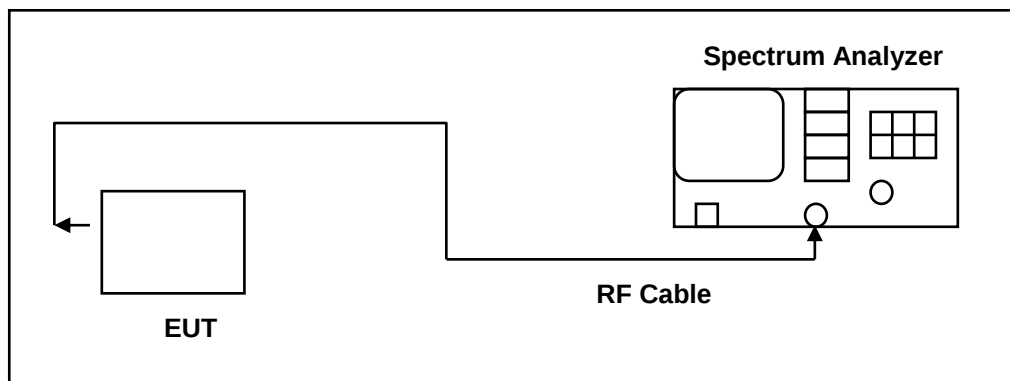
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

4.4. 6 dB RF Bandwidth Measurement

■ Limit

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

■ Test Setup



■ Test Procedure

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

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

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

4.5. Maximum Power Spectral Density Measurement

■ Limit

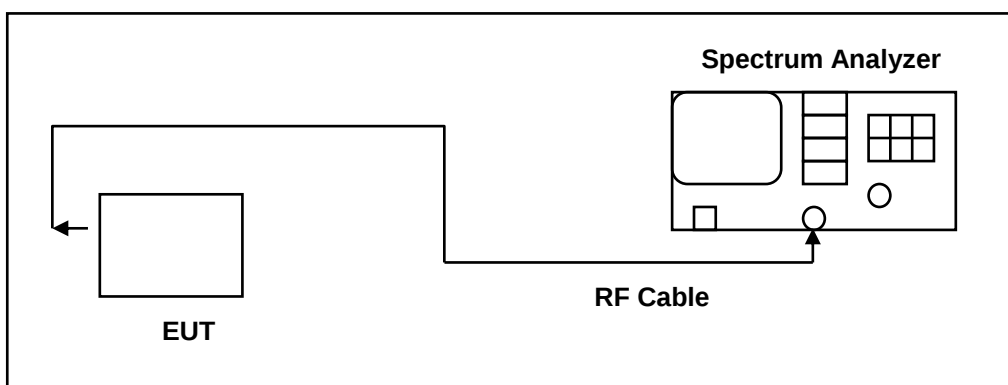
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

CDD / STBC mode :

Directional Gain = $10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / N_{ANT}\} = 10.26 \text{ dBi} > 6 \text{ dBi}$

* Conducted Power Spectral Density Limit = $8 - 4.26 = 3.74 \text{ dBm/3 kHz}$

■ 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.

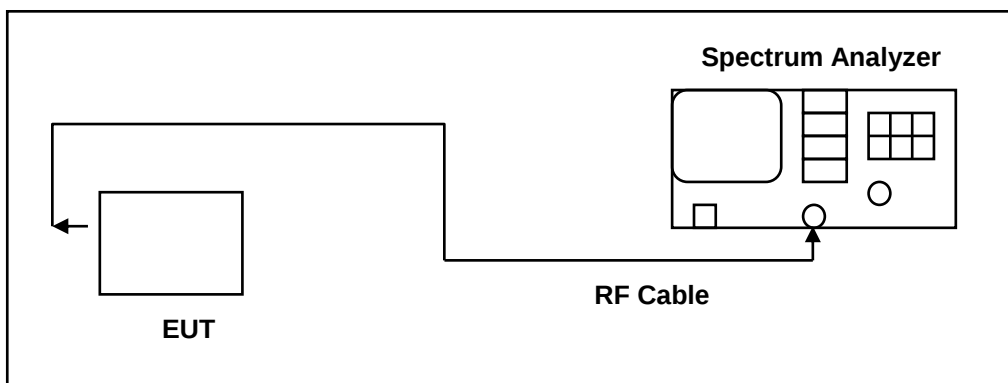
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.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

■ Directional Gain Calculated

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b	4.25
IEEE 802.11g	4.25
IEEE 802.11n 2.4 GHz 20 MHz (64QAM)	4.25
IEEE 802.11n 2.4 GHz 40 MHz (64QAM)	4.25
IEEE 802.11n 2.4 GHz 20 MHz (256QAM)	4.25
IEEE 802.11n 2.4 GHz 40 MHz (256QAM)	4.25
IEEE 802.11ax 2.4 GHz 40 MHz	4.25
IEEE 802.11ax 2.4 GHz 40 MHz	4.25

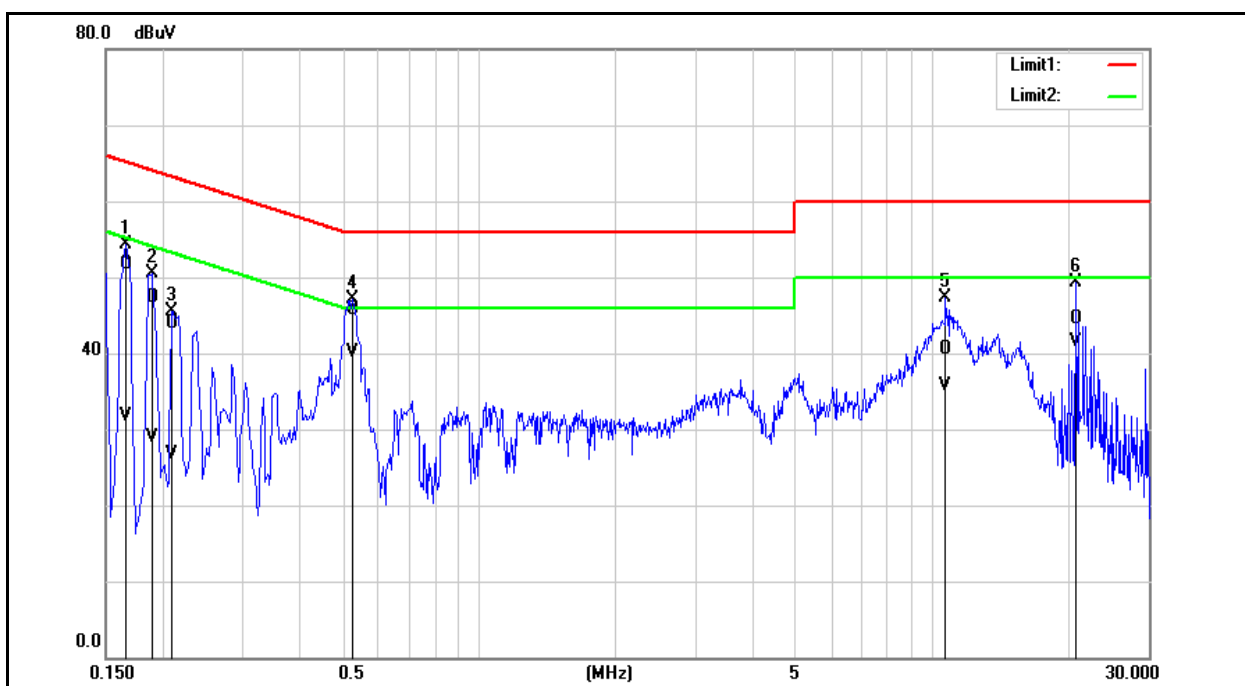
Beamforming on

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11n 2.4 GHz 20 MHz (64QAM)	10.26
IEEE 802.11n 2.4 GHz 40 MHz (64QAM)	10.26
IEEE 802.11n 2.4 GHz 20 MHz (256QAM)	10.26
IEEE 802.11n 2.4 GHz 40 MHz (256QAM)	10.26
IEEE 802.11ax 2.4 GHz 20 MHz	10.26
IEEE 802.11ax 2.4 GHz 40 MHz	10.26

5 Test Results

Annex A. Conducted Emission

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

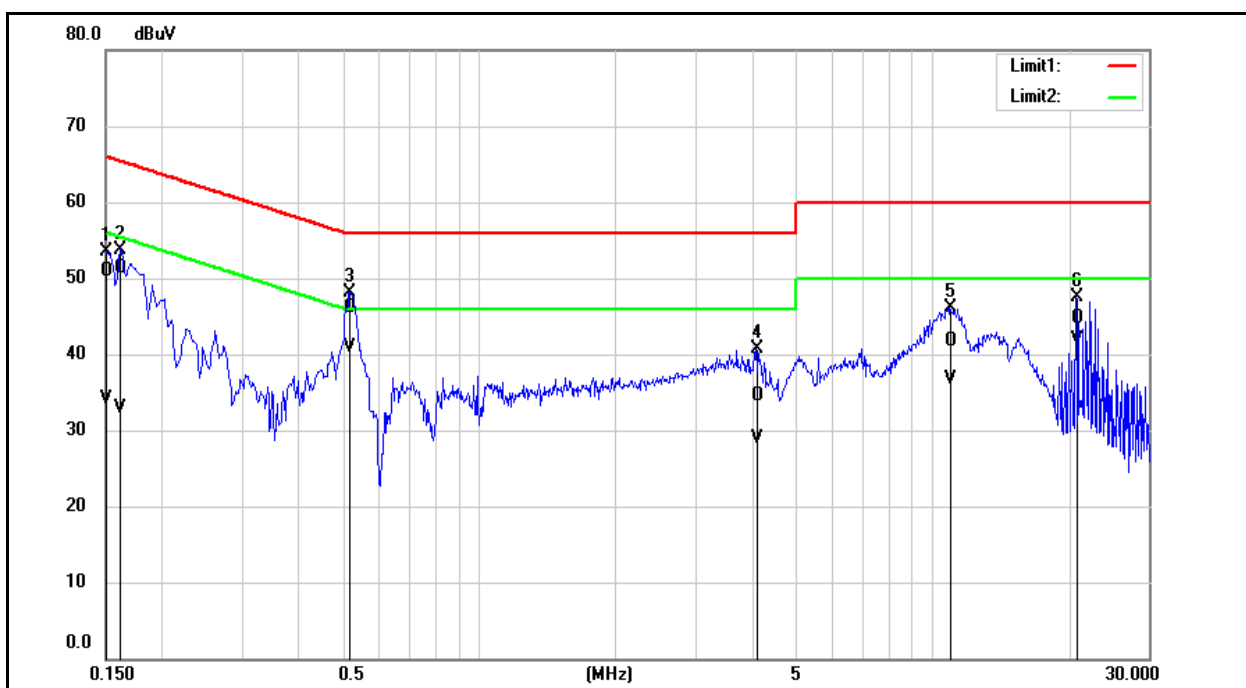


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1660	41.97	22.04	9.70	51.67	31.74	65.16	55.16	-13.49	-23.42	Pass
2	0.1900	37.66	19.14	9.70	47.36	28.84	64.04	54.04	-16.68	-25.20	Pass
3	0.2100	34.12	17.03	9.70	43.82	26.73	63.21	53.21	-19.39	-26.48	Pass
4	0.5260	35.92	30.38	9.71	45.63	40.09	56.00	46.00	-10.37	-5.91	Pass
5	10.7260	30.61	25.74	9.89	40.50	35.63	60.00	50.00	-19.50	-14.37	Pass
6	20.7740	34.44	31.49	10.03	44.47	41.52	60.00	50.00	-15.53	-8.48	Pass

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

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

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



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	41.19	24.38	9.69	50.88	34.07	66.00	56.00	-15.12	-21.93	Pass
2	0.1620	41.61	23.26	9.69	51.30	32.95	65.36	55.36	-14.06	-22.41	Pass
3	0.5180	36.40	31.25	9.70	46.10	40.95	56.00	46.00	-9.90	-5.05	Pass
4	4.0820	24.63	19.12	9.79	34.42	28.91	56.00	46.00	-21.58	-17.09	Pass
5	10.9060	31.82	26.90	9.90	41.72	36.80	60.00	50.00	-18.28	-13.20	Pass
6	20.7780	34.67	31.88	10.06	44.73	41.94	60.00	50.00	-15.27	-8.06	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		Limit
			Measurement Results		
			dBm	W	dBm
Mode 2	2412	1 M	19.22	0.084	≤ 30
	2437		19.52	0.090	≤ 30
	2462		19.61	0.091	≤ 30
Mode 3	2412	6 M	15.82	0.038	≤ 30
	2437		18.82	0.076	≤ 30
	2462		16.22	0.042	≤ 30
Mode 4	2412	26 M	16.29	0.043	≤ 30
	2437		18.67	0.074	≤ 30
	2462		16.09	0.041	≤ 30
Mode 5	2422	54 M	15.94	0.039	≤ 30
	2437		17.00	0.050	≤ 30
	2452		15.14	0.033	≤ 30
Mode 6	2412	26 M	16.58	0.045	≤ 30
	2437		18.81	0.076	≤ 30
	2462		16.22	0.042	≤ 30
Mode 7	2422	54 M	16.25	0.042	≤ 30
	2437		17.14	0.052	≤ 30
	2452		15.23	0.033	≤ 30
Mode 8	2412	MCS0	16.09	0.041	≤ 30
	2437		18.85	0.077	≤ 30
	2462		14.32	0.027	≤ 30
Mode 9	2422	MCS0	15.58	0.036	≤ 30
	2437		16.26	0.042	≤ 30
	2452		14.37	0.027	≤ 30

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

ANT-1					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Limit
			Measurement Results		
			dBm	W	dBm
Mode 2	2412	1 M	19.61	0.091	≤ 30
	2437		19.11	0.081	≤ 30
	2462		19.65	0.092	≤ 30
Mode 3	2412	6 M	16.01	0.040	≤ 30
	2437		18.52	0.071	≤ 30
	2462		16.21	0.042	≤ 30
Mode 4	2412	26 M	16.57	0.045	≤ 30
	2437		18.26	0.067	≤ 30
	2462		15.92	0.039	≤ 30
Mode 5	2422	54 M	15.79	0.038	≤ 30
	2437		16.61	0.046	≤ 30
	2452		14.83	0.030	≤ 30
Mode 6	2412	26 M	16.78	0.048	≤ 30
	2437		18.69	0.074	≤ 30
	2462		16.14	0.041	≤ 30
Mode 7	2422	54 M	16.47	0.044	≤ 30
	2437		16.92	0.049	≤ 30
	2452		14.84	0.030	≤ 30
Mode 8	2412	MCS0	16.32	0.043	≤ 30
	2437		18.59	0.072	≤ 30
	2462		14.21	0.026	≤ 30
Mode 9	2422	MCS0	15.35	0.034	≤ 30
	2437		16.18	0.041	≤ 30
	2452		14.21	0.026	≤ 30

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

ANT-2					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Limit
			Measurement Results		
			dBm	W	dBm
Mode 2	2412	1 M	19.26	0.084	≤ 30
	2437		19.19	0.083	≤ 30
	2462		19.42	0.087	≤ 30
Mode 3	2412	6 M	15.87	0.039	≤ 30
	2437		18.69	0.074	≤ 30
	2462		15.92	0.039	≤ 30
Mode 4	2412	26 M	16.33	0.043	≤ 30
	2437		18.38	0.069	≤ 30
	2462		15.89	0.039	≤ 30
Mode 5	2422	54 M	15.89	0.039	≤ 30
	2437		16.78	0.048	≤ 30
	2452		14.97	0.031	≤ 30
Mode 6	2412	26 M	16.56	0.045	≤ 30
	2437		18.61	0.073	≤ 30
	2462		16.05	0.040	≤ 30
Mode 7	2422	54 M	16.32	0.043	≤ 30
	2437		17.11	0.051	≤ 30
	2452		15.01	0.032	≤ 30
Mode 8	2412	MCS0	16.05	0.040	≤ 30
	2437		18.67	0.074	≤ 30
	2462		14.12	0.026	≤ 30
Mode 9	2422	MCS0	15.23	0.033	≤ 30
	2437		16.12	0.041	≤ 30
	2452		14.14	0.026	≤ 30

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

ANT-3					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Limit
			Measurement Results		
			dBm	W	dBm
Mode 2	2412	1 M	19.32	0.086	≤ 30
	2437		19.22	0.084	≤ 30
	2462		19.51	0.089	≤ 30
Mode 3	2412	6 M	15.84	0.038	≤ 30
	2437		18.62	0.073	≤ 30
	2462		16.13	0.041	≤ 30
Mode 4	2412	26 M	16.16	0.041	≤ 30
	2437		18.43	0.070	≤ 30
	2462		15.88	0.039	≤ 30
Mode 5	2422	54 M	15.93	0.039	≤ 30
	2437		16.78	0.048	≤ 30
	2452		14.86	0.031	≤ 30
Mode 6	2412	26 M	16.45	0.044	≤ 30
	2437		18.55	0.072	≤ 30
	2462		16.00	0.040	≤ 30
Mode 7	2422	54 M	16.30	0.043	≤ 30
	2437		17.08	0.051	≤ 30
	2452		14.98	0.031	≤ 30
Mode 8	2412	MCS0	16.25	0.042	≤ 30
	2437		18.71	0.074	≤ 30
	2462		14.23	0.026	≤ 30
Mode 9	2422	MCS0	15.47	0.035	≤ 30
	2437		16.15	0.041	≤ 30
	2452		14.22	0.026	≤ 30

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

ANT-0+1+2+3					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Limit
			Measurement Results		
			dBm	W	dBm
Mode 2	2412	1 M	25.38	0.345	≤ 30
	2437		25.28	0.338	≤ 30
	2462		25.57	0.360	≤ 30
Mode 3	2412	6 M	21.91	0.155	≤ 30
	2437		24.68	0.294	≤ 30
	2462		22.14	0.164	≤ 30
Mode 4	2412	26 M	22.36	0.172	≤ 30
	2437		24.46	0.279	≤ 30
	2462		21.97	0.157	≤ 30
Mode 5	2422	54 M	21.91	0.155	≤ 30
	2437		22.82	0.191	≤ 30
	2452		20.97	0.125	≤ 30
Mode 6	2412	26 M	22.61	0.183	≤ 30
	2437		24.69	0.294	≤ 30
	2462		22.12	0.163	≤ 30
Mode 7	2422	54 M	22.36	0.172	≤ 30
	2437		23.08	0.203	≤ 30
	2452		21.04	0.127	≤ 30
Mode 8	2412	MCS0	22.20	0.166	≤ 30
	2437		24.73	0.297	≤ 30
	2462		20.24	0.106	≤ 30
Mode 9	2422	MCS0	21.43	0.139	≤ 30
	2437		22.20	0.166	≤ 30
	2452		20.26	0.106	≤ 30

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		Limit
			Measurement Results		
			dBm	W	dBm
Mode 4	2412	26 M	9.68	0.009	≤ 30
	2437		12.66	0.018	≤ 30
	2462		9.79	0.010	≤ 30
Mode 5	2422	54 M	9.44	0.009	≤ 30
	2437		10.40	0.011	≤ 30
	2452		8.55	0.007	≤ 30
Mode 6	2412	26 M	10.18	0.010	≤ 30
	2437		12.69	0.019	≤ 30
	2462		9.85	0.010	≤ 30
Mode 7	2422	54 M	10.05	0.010	≤ 30
	2437		10.69	0.012	≤ 30
	2452		8.69	0.007	≤ 30
Mode 8	2412	MCS0	9.87	0.010	≤ 30
	2437		12.72	0.019	≤ 30
	2462		7.76	0.006	≤ 30
Mode 9	2422	MCS0	9.01	0.008	≤ 30
	2437		9.76	0.009	≤ 30
	2452		7.68	0.006	≤ 30

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

ANT-1					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Limit
			Measurement Results		
			dBm	W	dBm
Mode 4	2412	26 M	9.74	0.009	≤ 30
	2437		11.97	0.016	≤ 30
	2462		9.64	0.009	≤ 30
Mode 5	2422	54 M	9.37	0.009	≤ 30
	2437		10.33	0.011	≤ 30
	2452		8.47	0.007	≤ 30
Mode 6	2412	26 M	10.26	0.011	≤ 30
	2437		12.30	0.017	≤ 30
	2462		9.76	0.009	≤ 30
Mode 7	2422	54 M	9.87	0.010	≤ 30
	2437		10.62	0.012	≤ 30
	2452		8.56	0.007	≤ 30
Mode 8	2412	MCS0	9.83	0.010	≤ 30
	2437		12.39	0.017	≤ 30
	2462		7.79	0.006	≤ 30
Mode 9	2422	MCS0	8.93	0.008	≤ 30
	2437		9.61	0.009	≤ 30
	2452		7.63	0.006	≤ 30

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

ANT-2					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Limit
			Measurement Results		
			dBm	W	dBm
Mode 4	2412	26 M	9.75	0.009	≤ 30
	2437		12.12	0.016	≤ 30
	2462		9.61	0.009	≤ 30
Mode 5	2422	54 M	9.43	0.009	≤ 30
	2437		10.24	0.011	≤ 30
	2452		8.68	0.007	≤ 30
Mode 6	2412	26 M	10.19	0.010	≤ 30
	2437		12.24	0.017	≤ 30
	2462		9.67	0.009	≤ 30
Mode 7	2422	54 M	9.83	0.010	≤ 30
	2437		10.50	0.011	≤ 30
	2452		8.75	0.007	≤ 30
Mode 8	2412	MCS0	9.70	0.009	≤ 30
	2437		12.32	0.017	≤ 30
	2462		7.77	0.006	≤ 30
Mode 9	2422	MCS0	8.81	0.008	≤ 30
	2437		9.73	0.009	≤ 30
	2452		7.71	0.006	≤ 30

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

ANT-3					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Limit
			Measurement Results		
			dBm	W	dBm
Mode 4	2412	26 M	9.64	0.009	≤ 30
	2437		12.14	0.016	≤ 30
	2462		9.54	0.009	≤ 30
Mode 5	2422	54 M	9.56	0.009	≤ 30
	2437		10.42	0.011	≤ 30
	2452		8.58	0.007	≤ 30
Mode 6	2412	26 M	10.15	0.010	≤ 30
	2437		12.37	0.017	≤ 30
	2462		9.65	0.009	≤ 30
Mode 7	2422	54 M	9.95	0.010	≤ 30
	2437		10.55	0.011	≤ 30
	2452		8.62	0.007	≤ 30
Mode 8	2412	MCS0	9.75	0.009	≤ 30
	2437		12.61	0.018	≤ 30
	2462		7.81	0.006	≤ 30
Mode 9	2422	MCS0	8.98	0.008	≤ 30
	2437		9.70	0.009	≤ 30
	2452		7.77	0.006	≤ 30

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

ANT-0+1+2+3					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Limit
			Measurement Results		
			dBm	W	dBm
Mode 4	2412	26 M	15.72	0.037	≤ 30
	2437		18.25	0.067	≤ 30
	2462		15.67	0.037	≤ 30
Mode 5	2422	54 M	15.47	0.035	≤ 30
	2437		16.37	0.043	≤ 30
	2452		14.59	0.029	≤ 30
Mode 6	2412	26 M	16.22	0.042	≤ 30
	2437		18.42	0.070	≤ 30
	2462		15.75	0.038	≤ 30
Mode 7	2422	54 M	15.95	0.039	≤ 30
	2437		16.61	0.046	≤ 30
	2452		14.68	0.029	≤ 30
Mode 8	2412	MCS0	15.81	0.038	≤ 30
	2437		18.53	0.071	≤ 30
	2462		13.80	0.024	≤ 30
Mode 9	2422	MCS0	14.95	0.031	≤ 30
	2437		15.72	0.037	≤ 30
	2452		13.72	0.024	≤ 30

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



6 dB RF Bandwidth Measurement

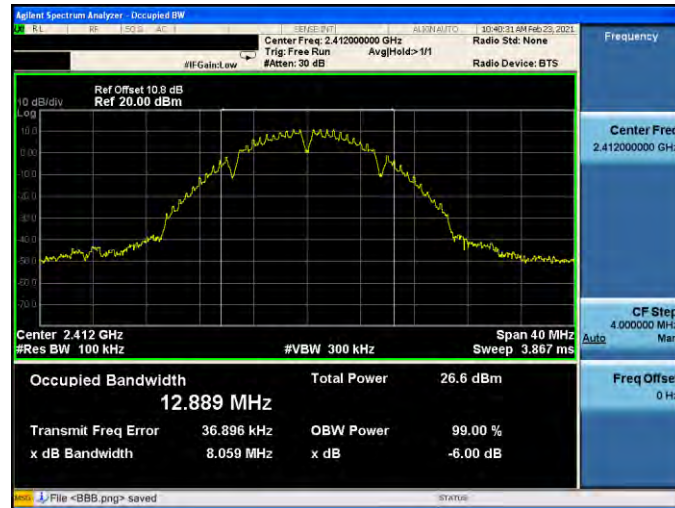
Test Mode	Frequency (MHz)	Measurement (kHz)				Limit (kHz)
		ANT-0	ANT-1	ANT-2	ANT-3	
Mode 2	2412	8059	7624	7598	8081	≥ 500
	2437	7121	7114	7640	7613	≥ 500
	2462	8082	8036	8050	7603	≥ 500



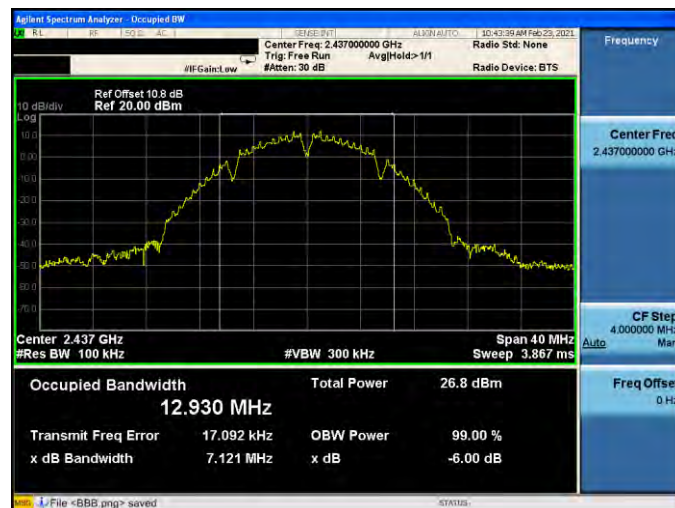
Test Graphs

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

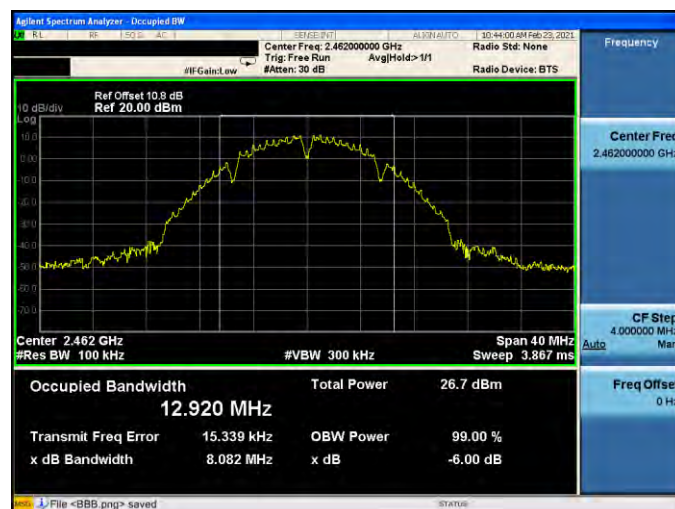
2412 MHz



2437 MHz



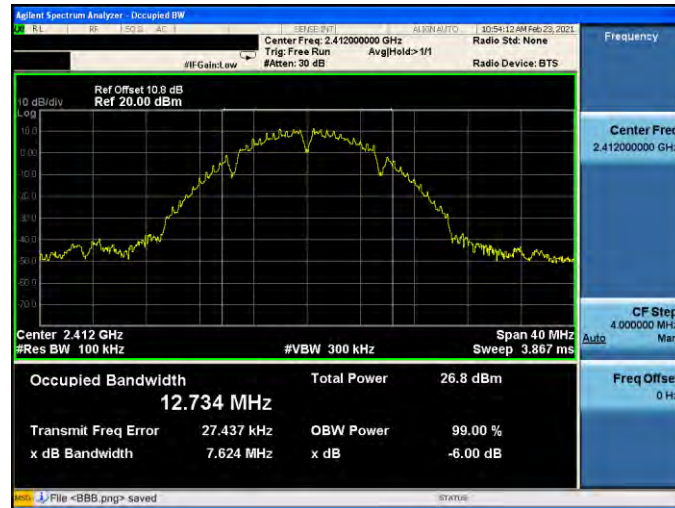
2462 MHz



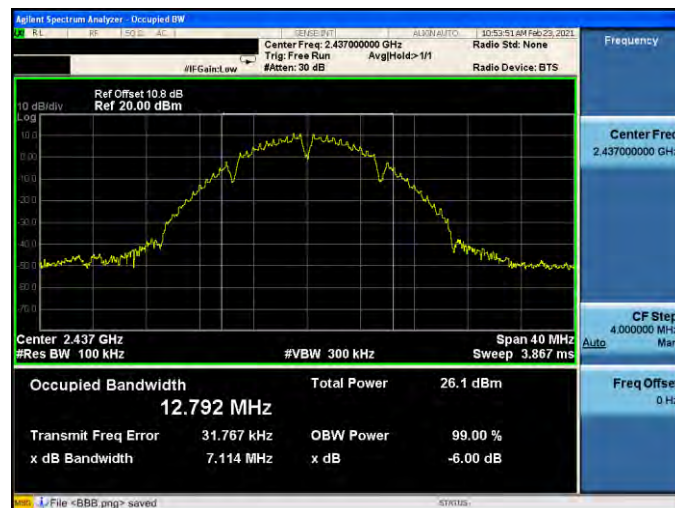


Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

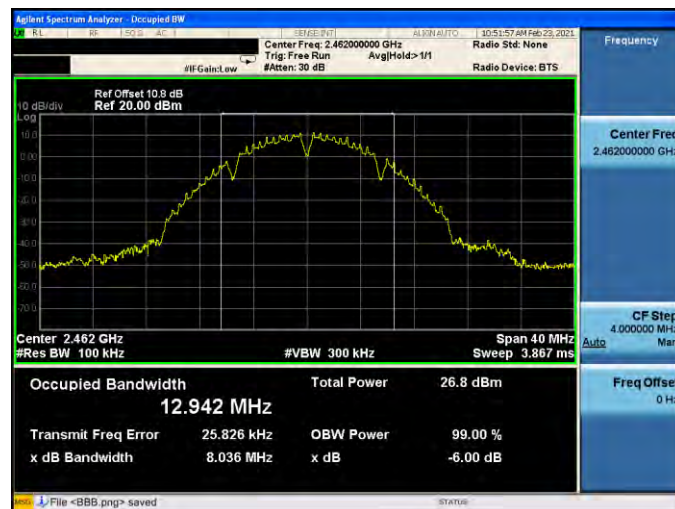
2412 MHz



2437 MHz



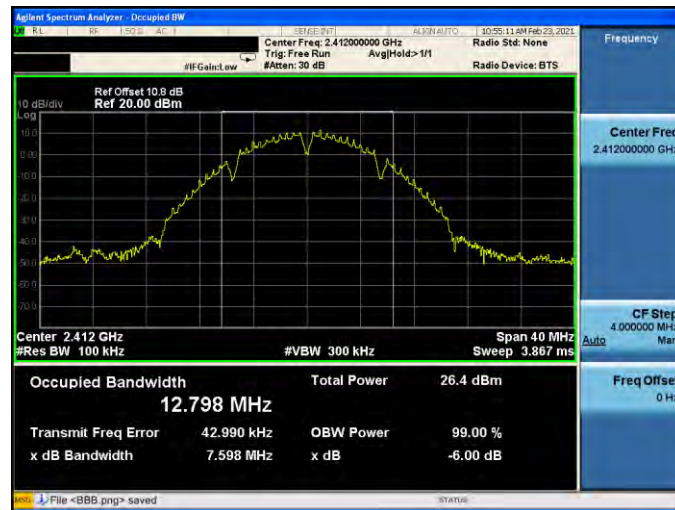
2462 MHz



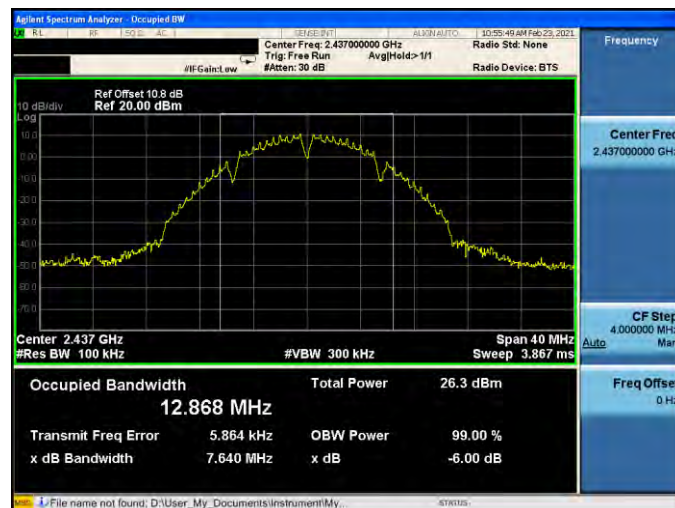


Mode 2: IEEE 802.11b Continuous TX mode_ANT-2

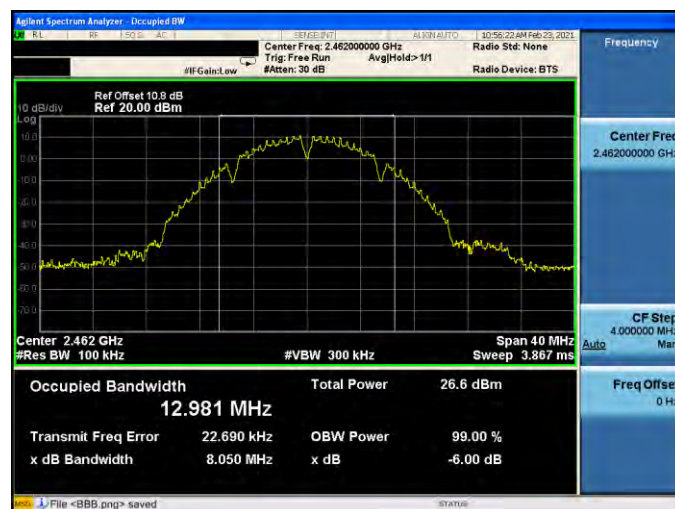
2412 MHz



2437 MHz



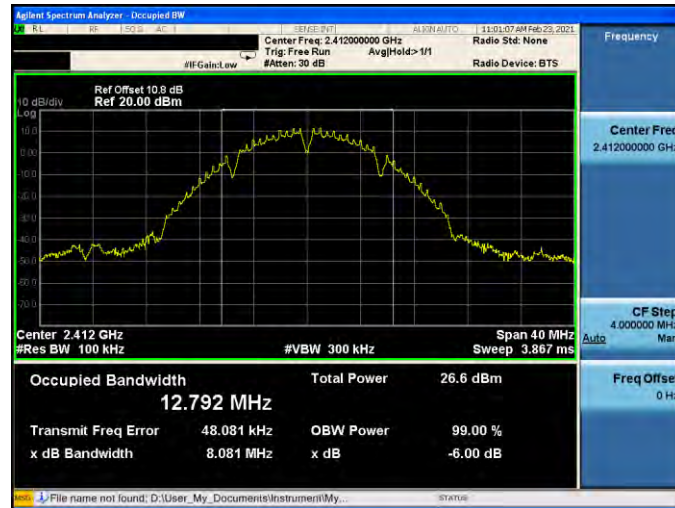
2462 MHz



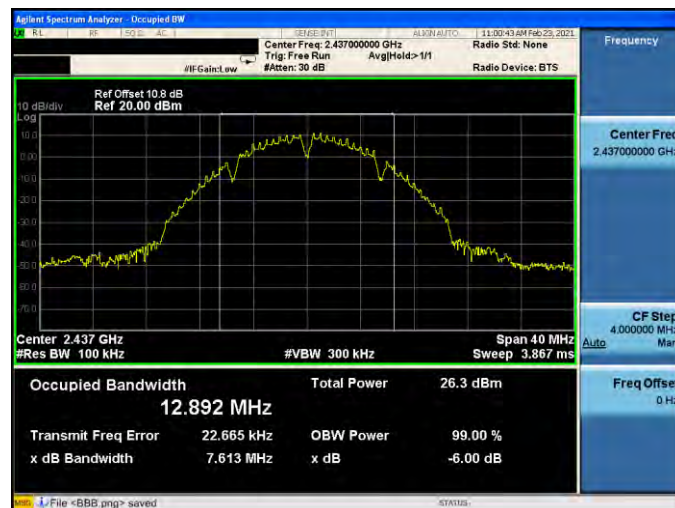


Mode 2: IEEE 802.11b Continuous TX mode_ANT-3

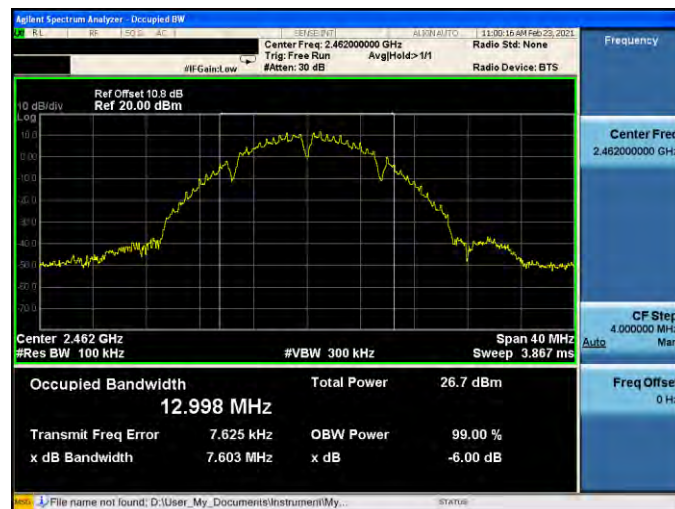
2412 MHz



2437 MHz



2462 MHz





Maximum Power Spectral Density Measurement

Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)					Limit (dBm/ 3 kHz)
		ANT-0	ANT-1	ANT-2	ANT-3	ANT-0+1+2+3	
Mode 2	2412	-2.274	-2.460	-2.419	-2.363	3.642	≤ 3.74
	2437	-1.837	-2.742	-2.461	-2.513	3.646	≤ 3.74
	2462	-2.479	-2.255	-2.660	-2.366	3.583	≤ 3.74



Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

2412 MHz



2437 MHz



2462 MHz



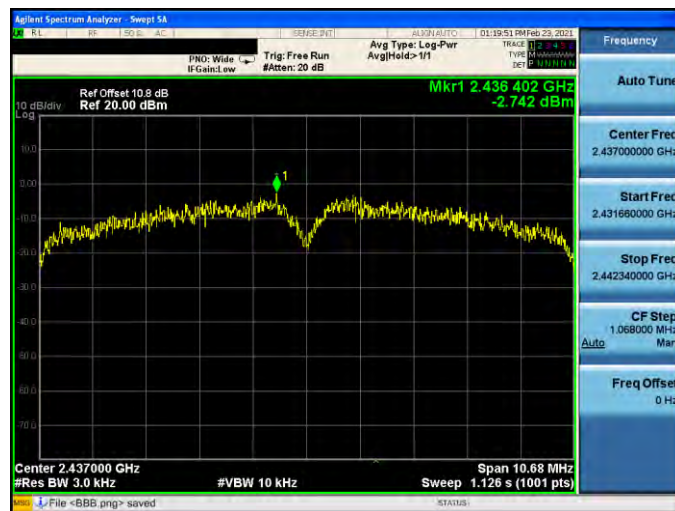


Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

2412 MHz



2437 MHz



2462 MHz





Mode 2: IEEE 802.11b Continuous TX mode_ANT-2

2412 MHz



2437 MHz



2462 MHz





Mode 2: IEEE 802.11b Continuous TX mode_ANT-3

2412 MHz



2437 MHz



2462 MHz





Out of Band Conducted Emissions Measurement

■ Test Graphs

Reference level

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

2412 MHz



2437 MHz



2462 MHz





Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

2412 MHz



2437 MHz



2462 MHz





Mode 2: IEEE 802.11b Continuous TX mode_ANT-2

2412 MHz



2437 MHz



2462 MHz





Mode 2: IEEE 802.11b Continuous TX mode_ANT-3

2412 MHz



2437 MHz



2462 MHz

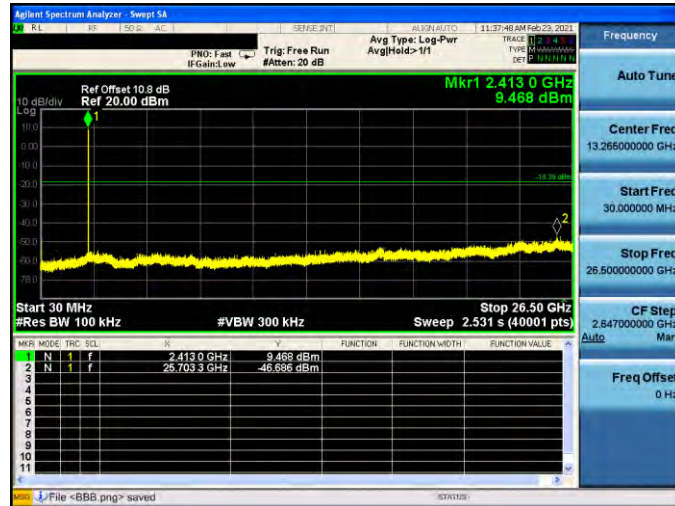




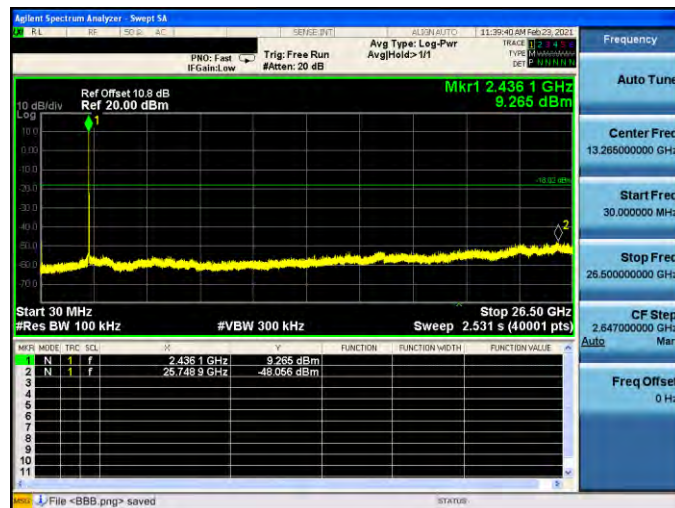
Out of Band Conducted Emissions

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

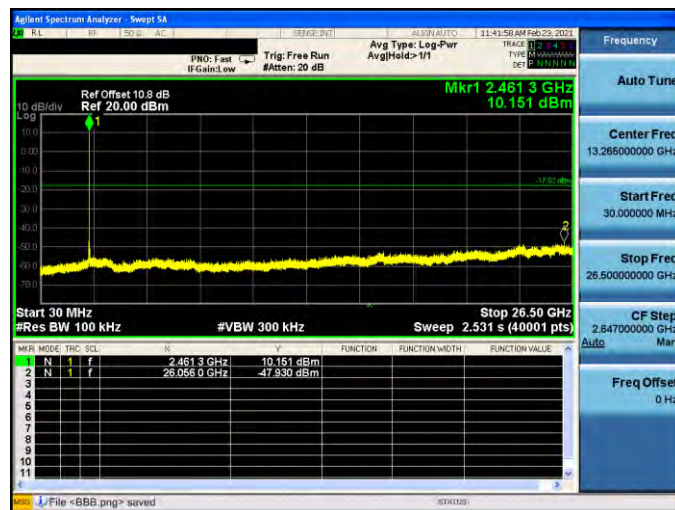
2412 MHz



2437 MHz



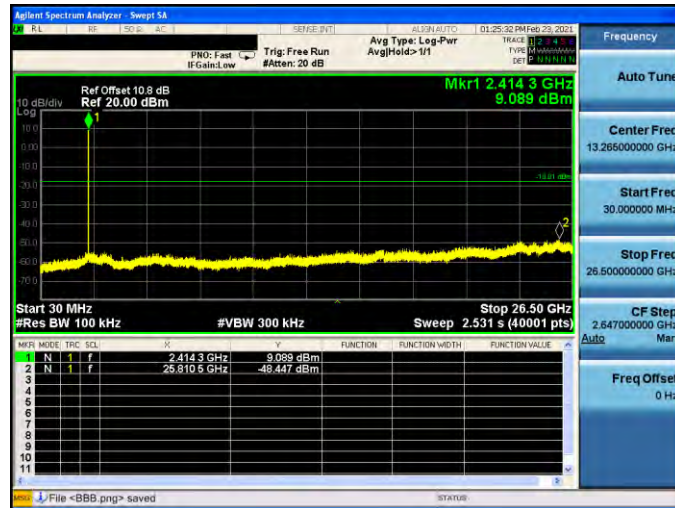
2462 MHz



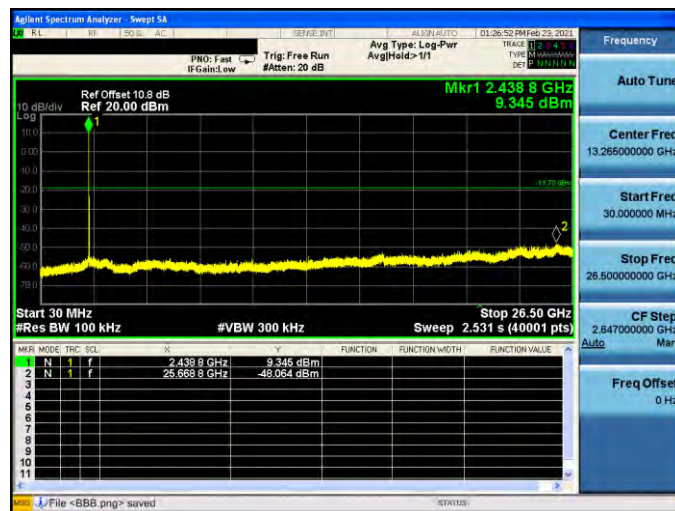


Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

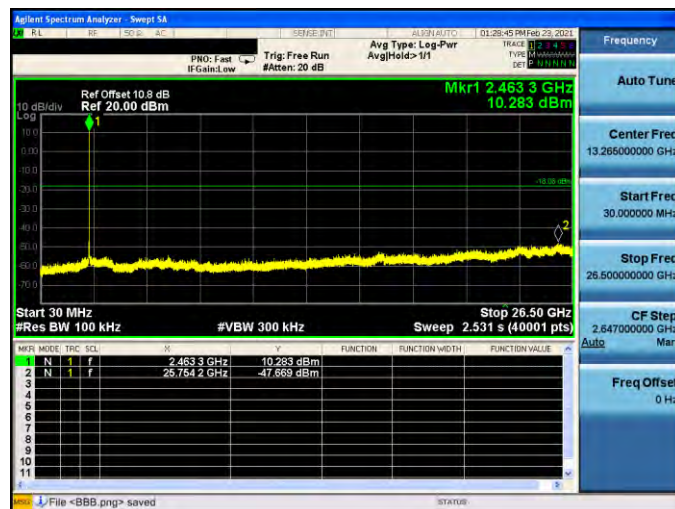
2412 MHz



2437 MHz



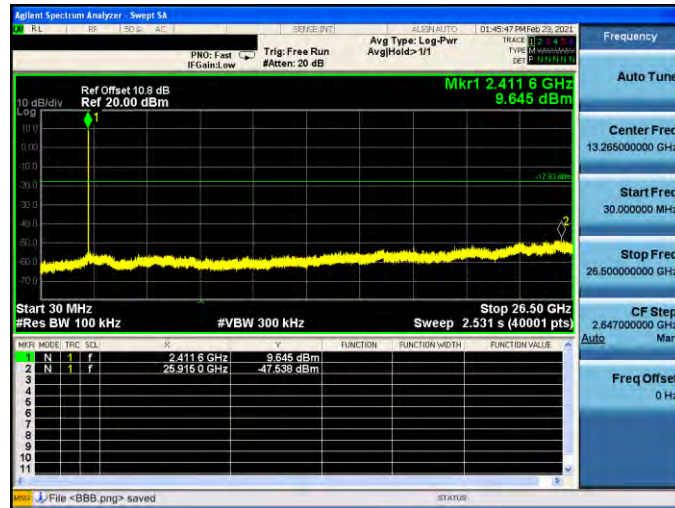
2462 MHz



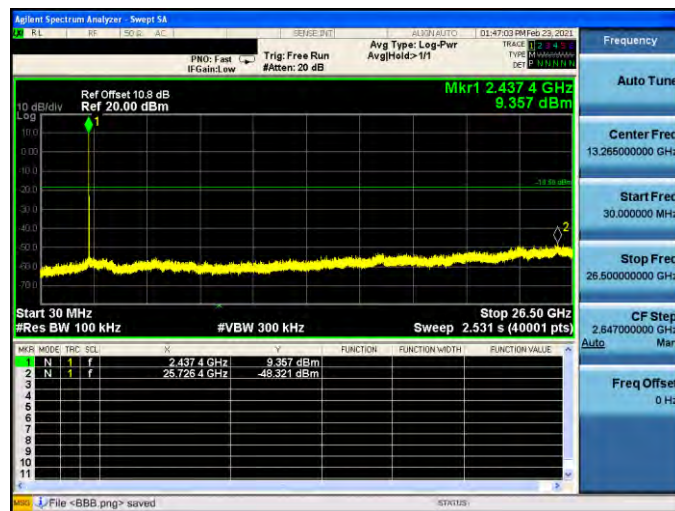


Mode 2: IEEE 802.11b Continuous TX mode_ANT-2

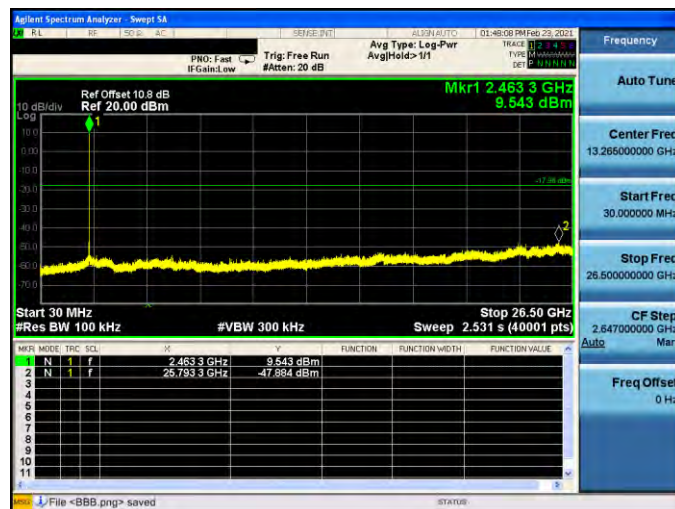
2412 MHz



2437 MHz



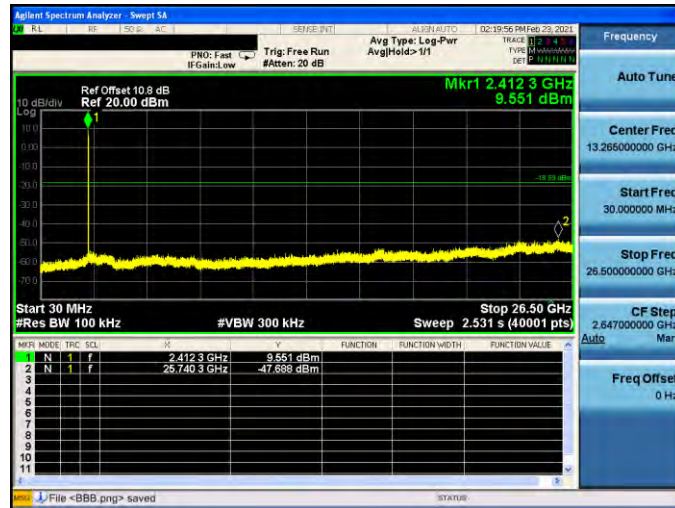
2462 MHz



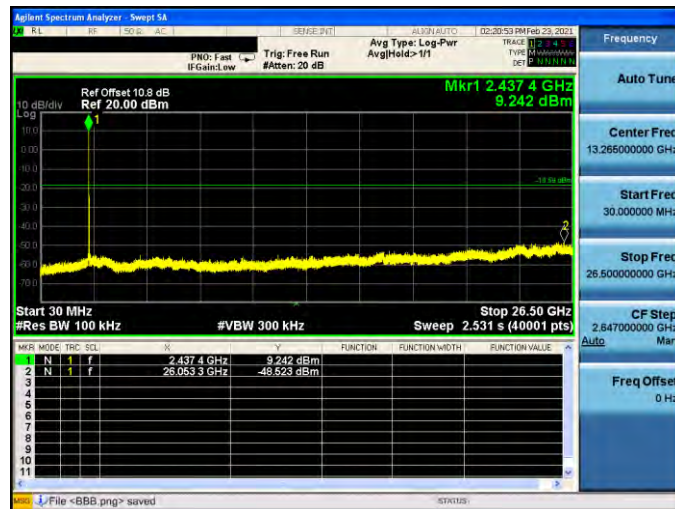


Mode 2: IEEE 802.11b Continuous TX mode_ANT-3

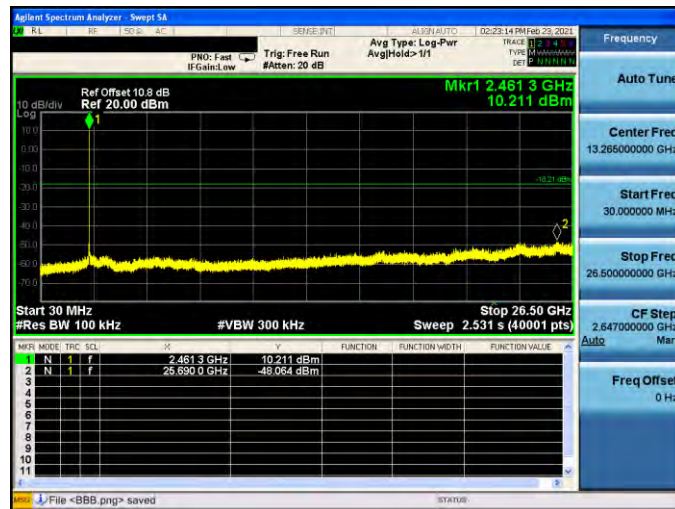
2412 MHz



2437 MHz



2462 MHz

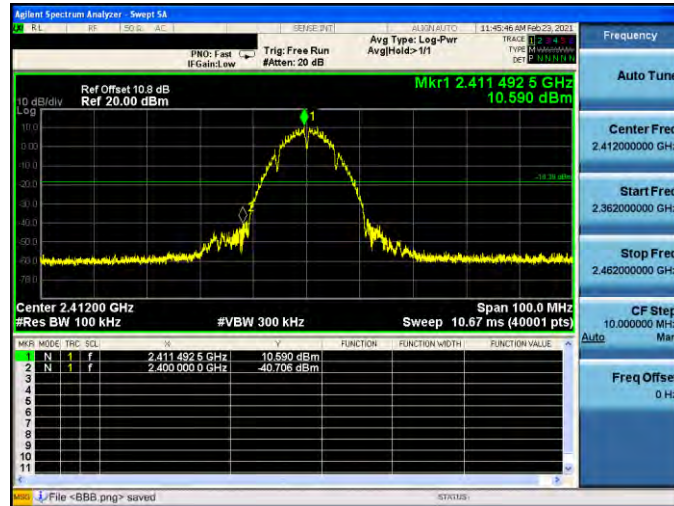




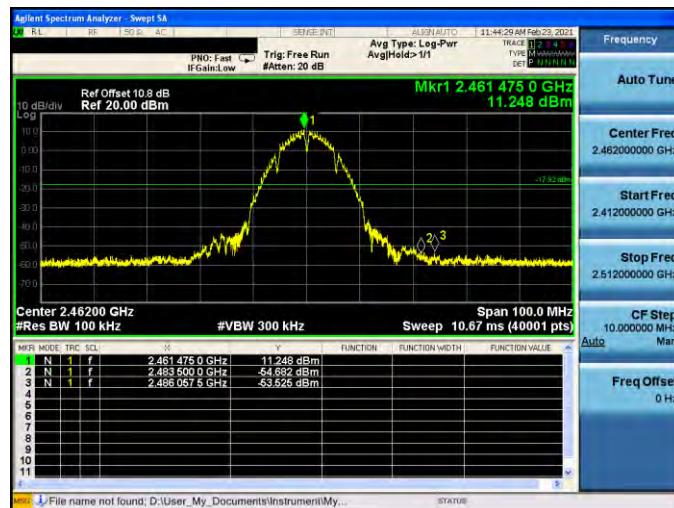
Conducted Band Edge

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

2412 MHz



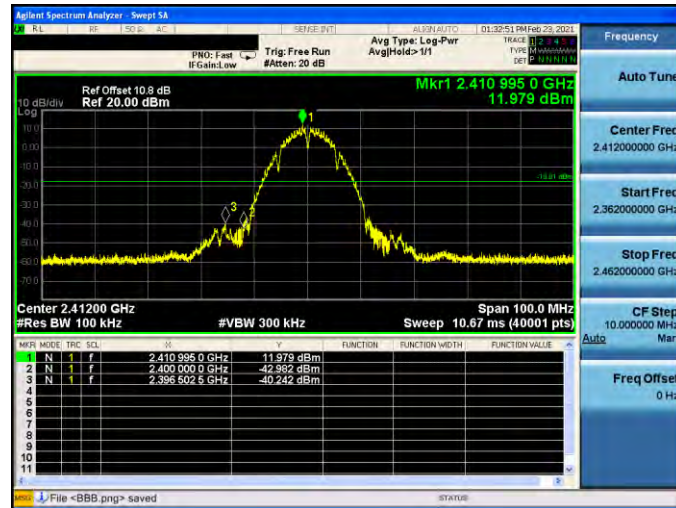
2462 MHz



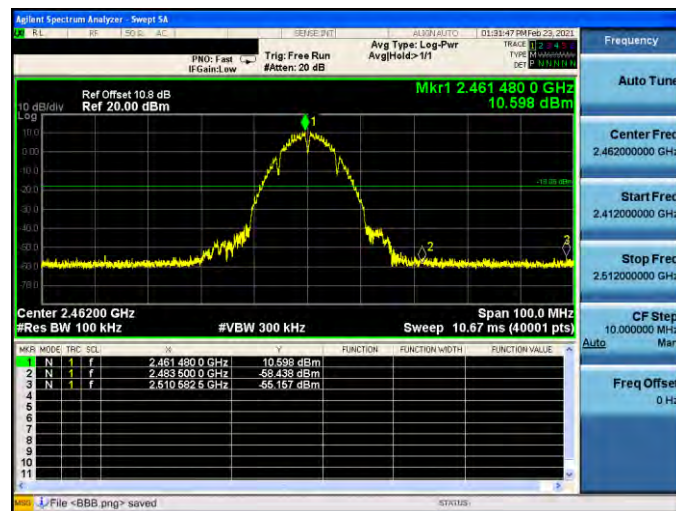


Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

2412 MHz



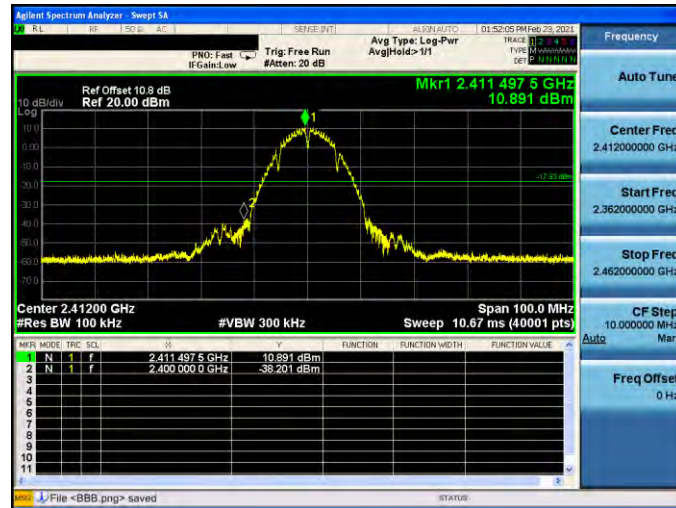
2462 MHz



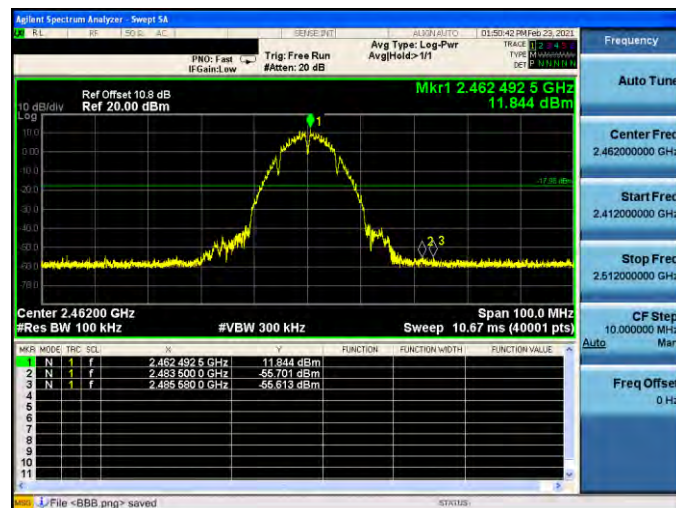


Mode 2: IEEE 802.11b Continuous TX mode_ANT-2

2412 MHz

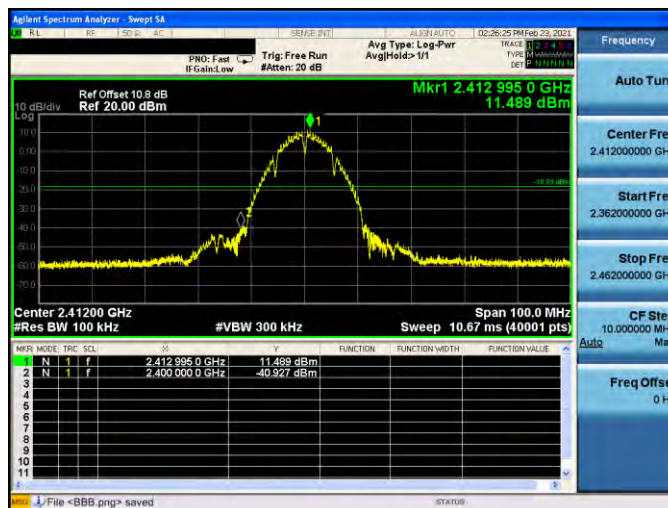


2462 MHz

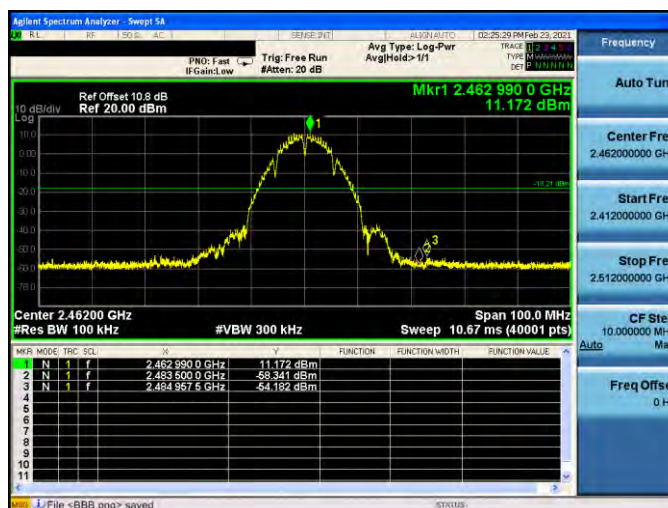


Mode 2: IEEE 802.11b Continuous TX mode_ANT-3

2412 MHz



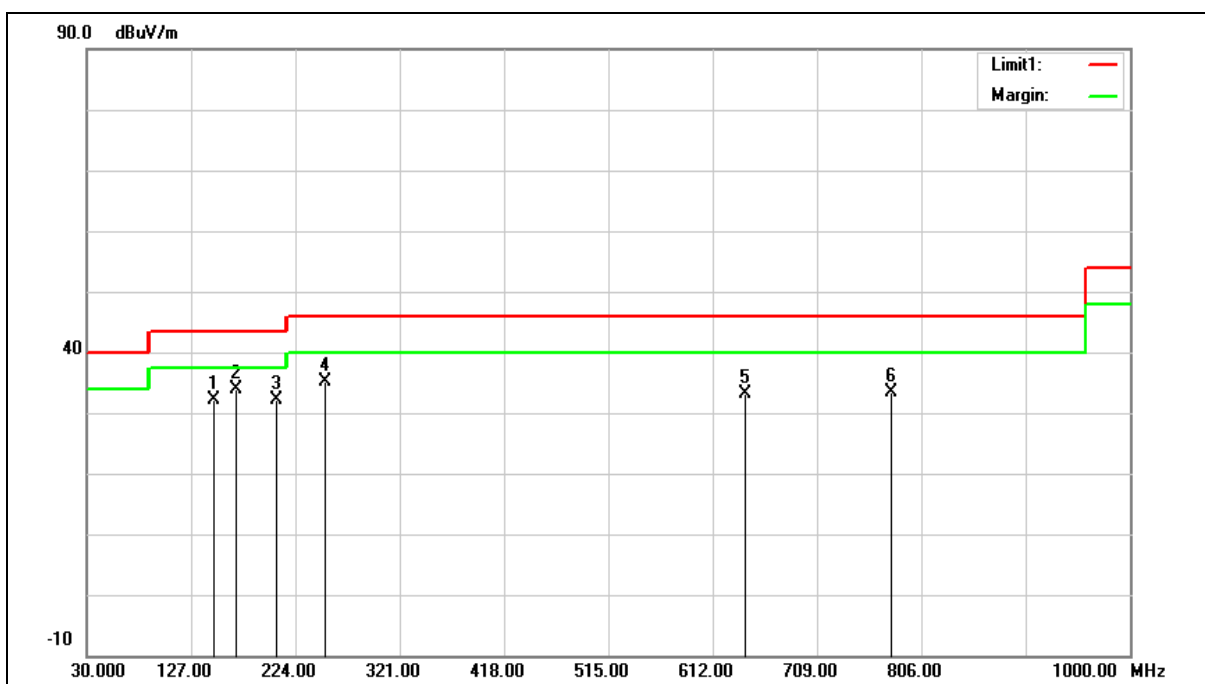
2462 MHz



Annex C. Radiated Emission Measurement

Below 1 GHz

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	147.6050	38.06	-5.81	32.25	43.50	-11.25	QP
2	168.0160	39.76	-5.90	33.86	43.50	-9.64	QP
3	205.9216	39.86	-7.79	32.07	43.50	-11.43	QP
4	250.6313	41.26	-6.10	35.16	46.00	-10.84	QP
5	641.3527	30.54	2.60	33.14	46.00	-12.86	QP
6	777.4248	28.08	5.30	33.38	46.00	-12.62	QP

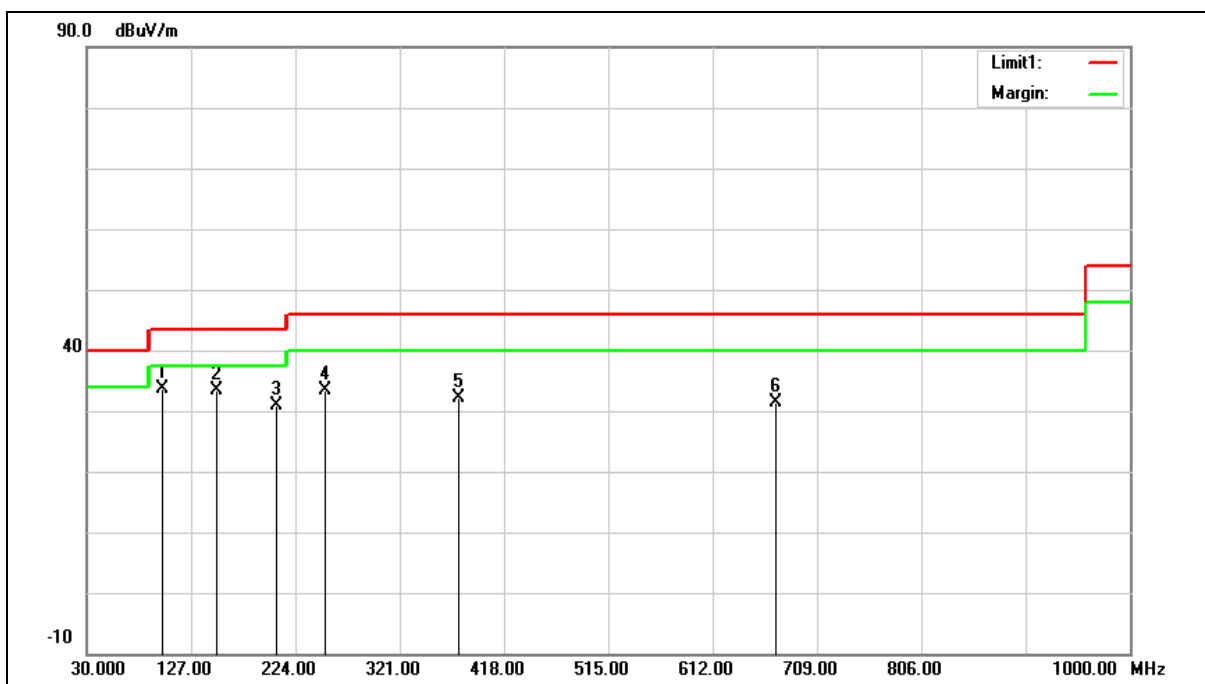
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example: $32.25 = -5.81 + 38.06$

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	99.9800	44.74	-11.10	33.64	43.50	-9.86	QP
2	149.5491	39.12	-5.78	33.34	43.50	-10.16	QP
3	205.9216	38.79	-7.79	31.00	43.50	-12.50	QP
4	250.6313	39.49	-6.10	33.39	46.00	-12.61	QP
5	375.0400	35.15	-3.14	32.01	46.00	-13.99	QP
6	669.5390	28.30	3.06	31.36	46.00	-14.64	QP

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

Example: 33.64 = -11.10 + 44.74

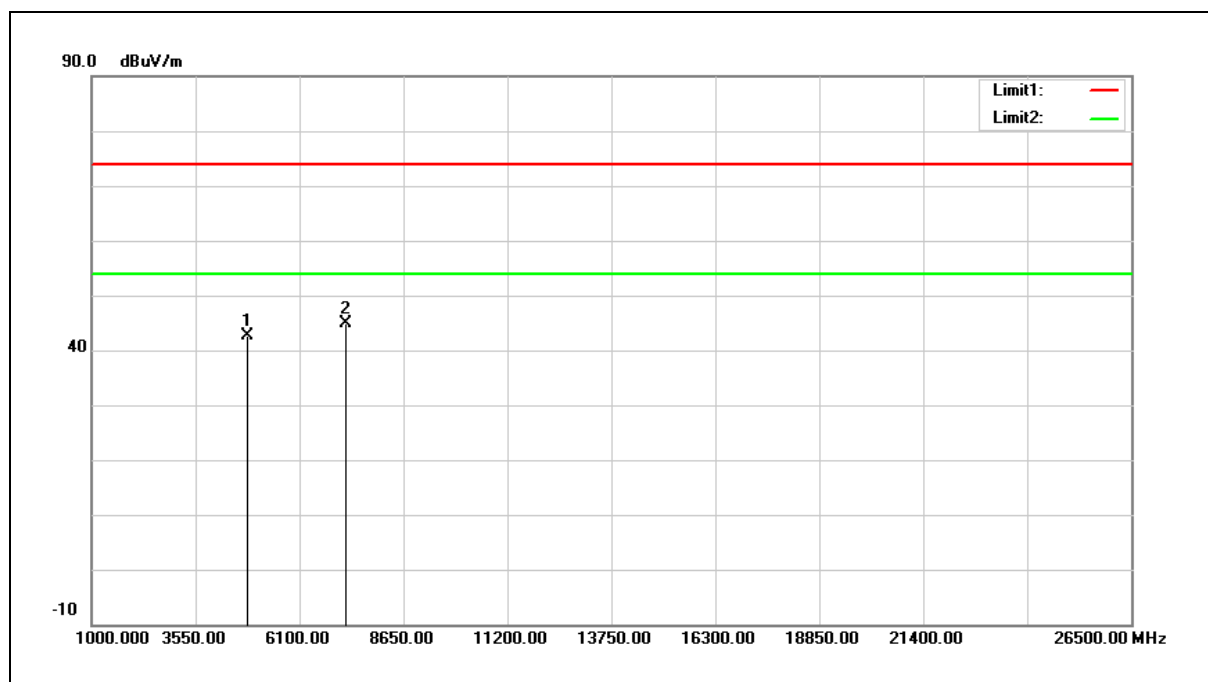
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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

Harmonic

Above 1 GHz

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	51.16	-8.48	42.68	74.00	-31.32	peak
2	7236.000	45.79	-0.98	44.81	74.00	-29.19	peak

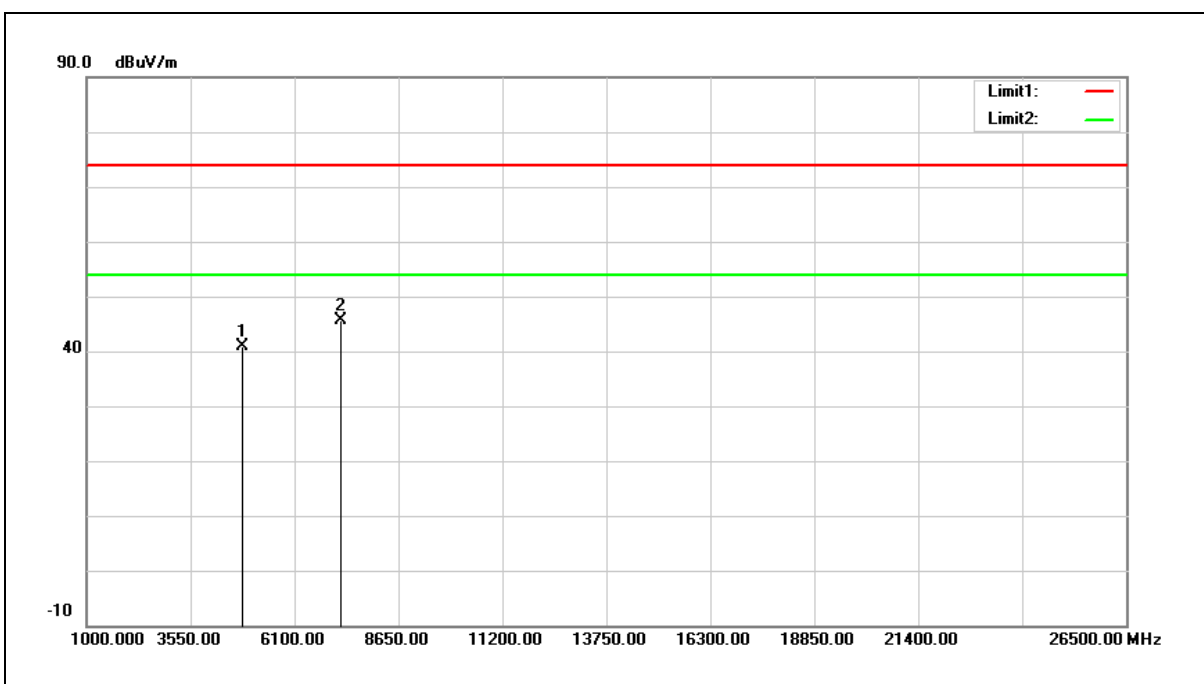
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $42.68 = -8.48 + 51.16$

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	49.32	-8.48	40.84	74.00	-33.16	peak
2	7236.000	46.73	-0.98	45.75	74.00	-28.25	peak

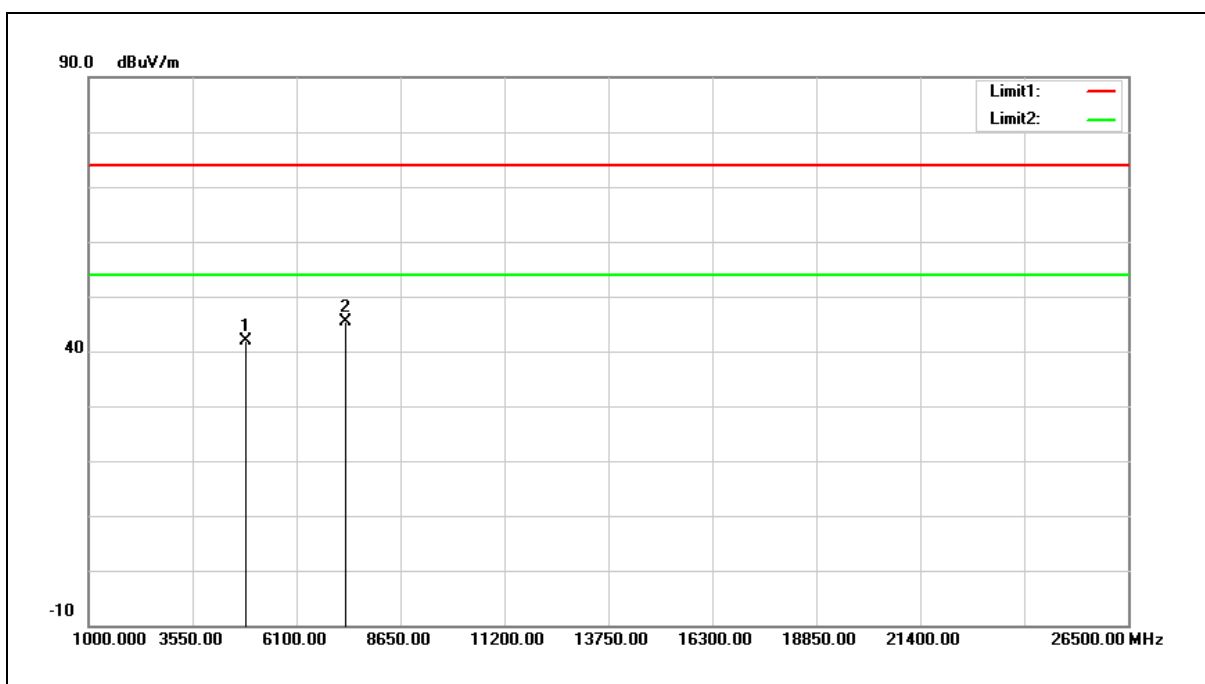
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example: $40.84 = -8.48 + 49.32$

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

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

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



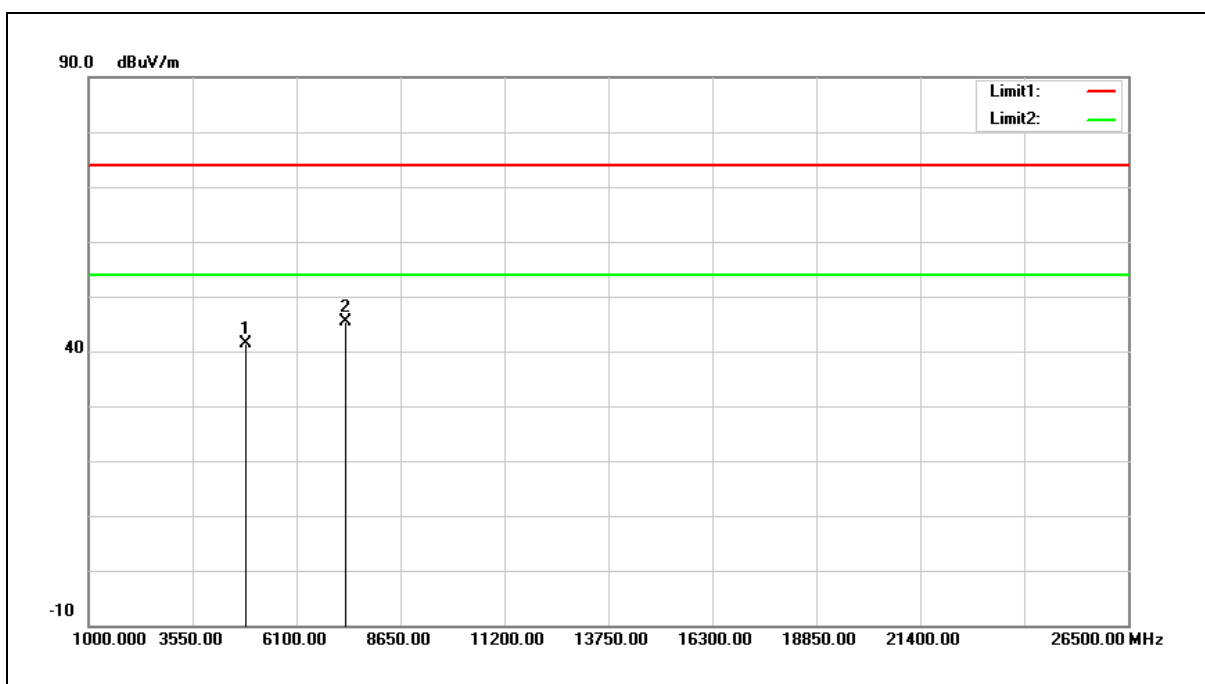
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	50.32	-8.37	41.95	74.00	-32.05	peak
2	7311.000	45.93	-0.66	45.27	74.00	-28.73	peak

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		
Frequency:	2437 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



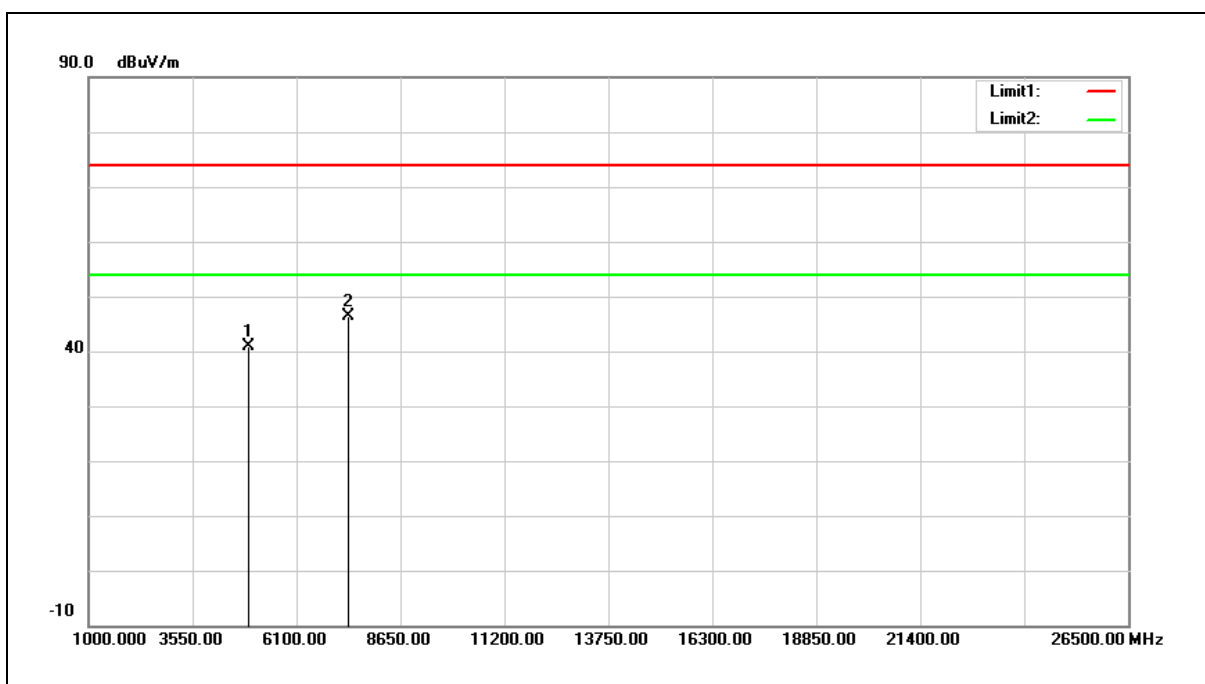
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.71	-8.37	41.34	74.00	-32.66	peak
2	7311.000	45.94	-0.66	45.28	74.00	-28.72	peak

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



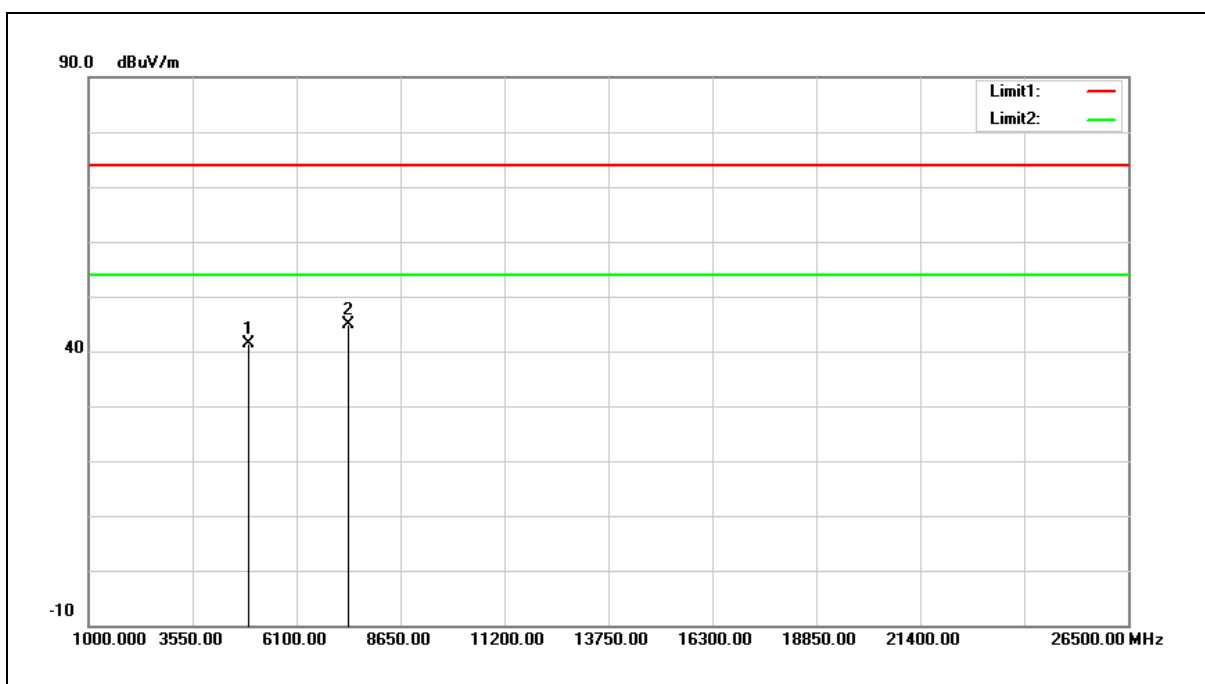
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	49.05	-8.24	40.81	74.00	-33.19	peak
2	7386.000	46.81	-0.34	46.47	74.00	-27.53	peak

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

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

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

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



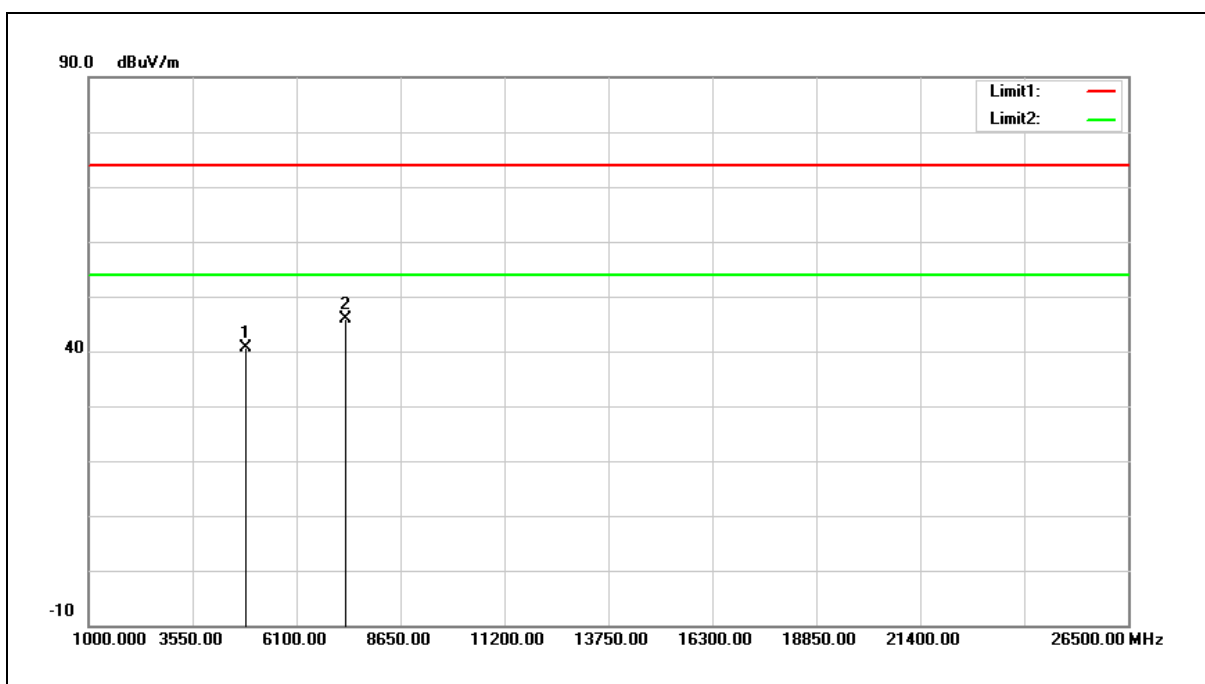
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	49.64	-8.24	41.40	74.00	-32.60	peak
2	7386.000	45.30	-0.34	44.96	74.00	-29.04	peak

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

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

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

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



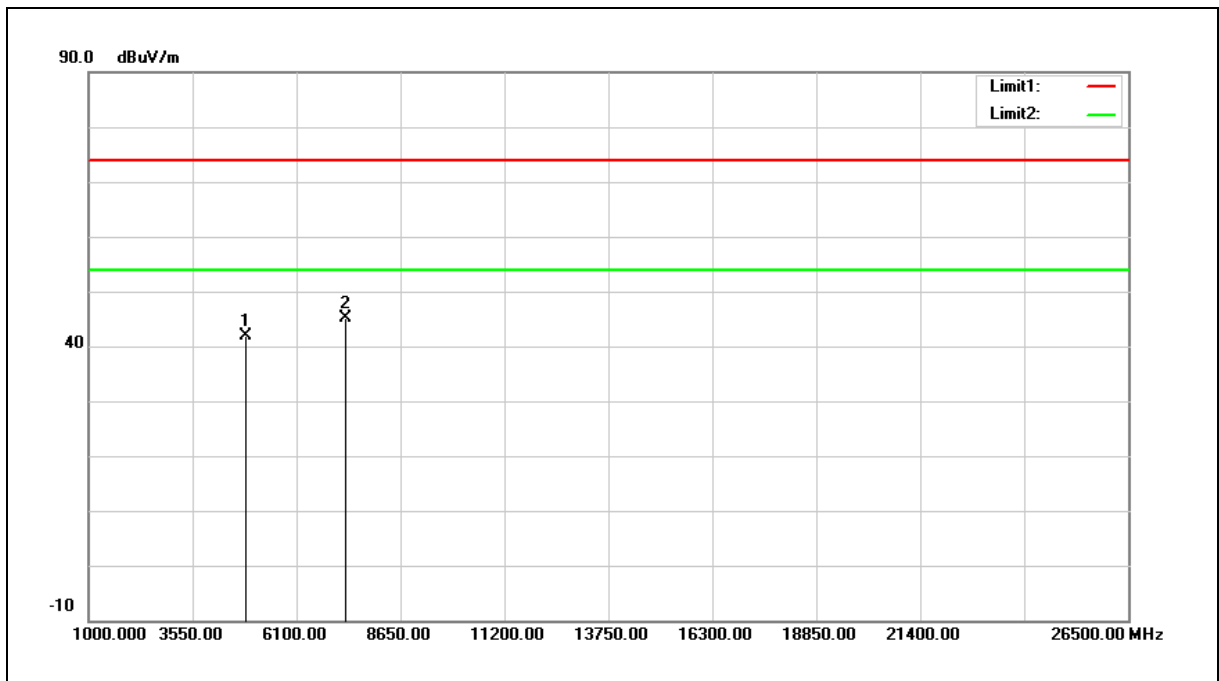
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	48.91	-8.37	40.54	74.00	-33.46	peak
2	7311.000	46.60	-0.66	45.94	74.00	-28.06	peak

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

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

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

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



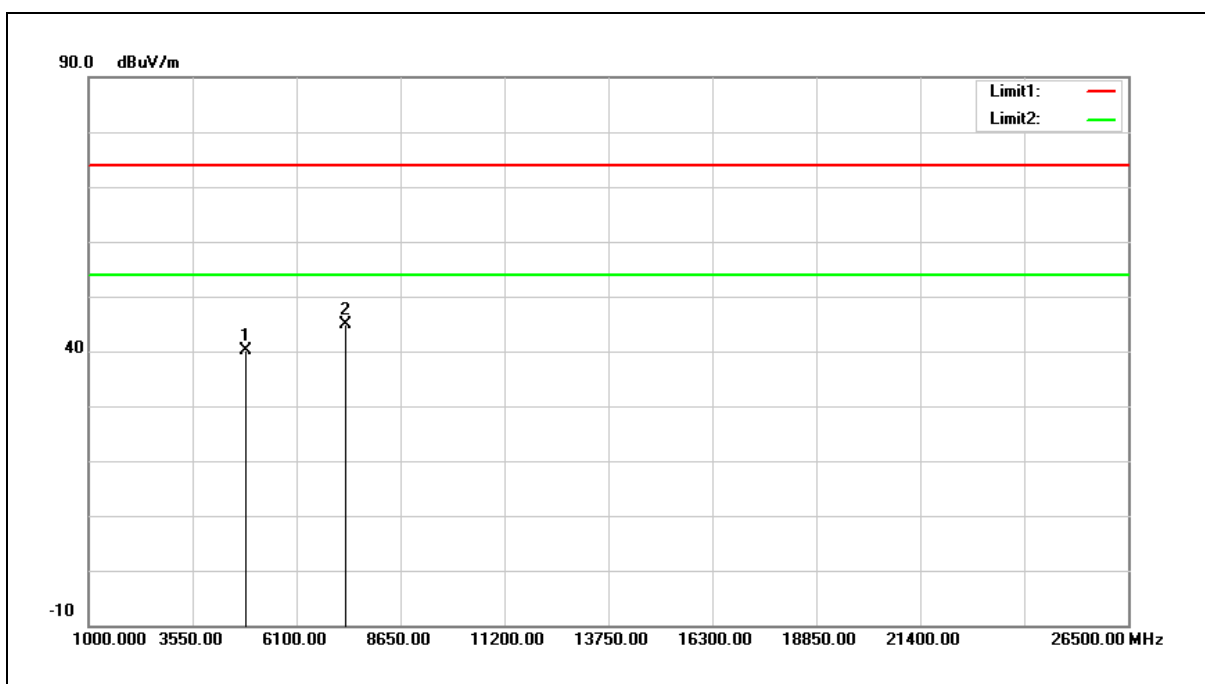
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	50.15	-8.37	41.78	74.00	-32.22	peak
2	7311.000	45.77	-0.66	45.11	74.00	-28.89	peak

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

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

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

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



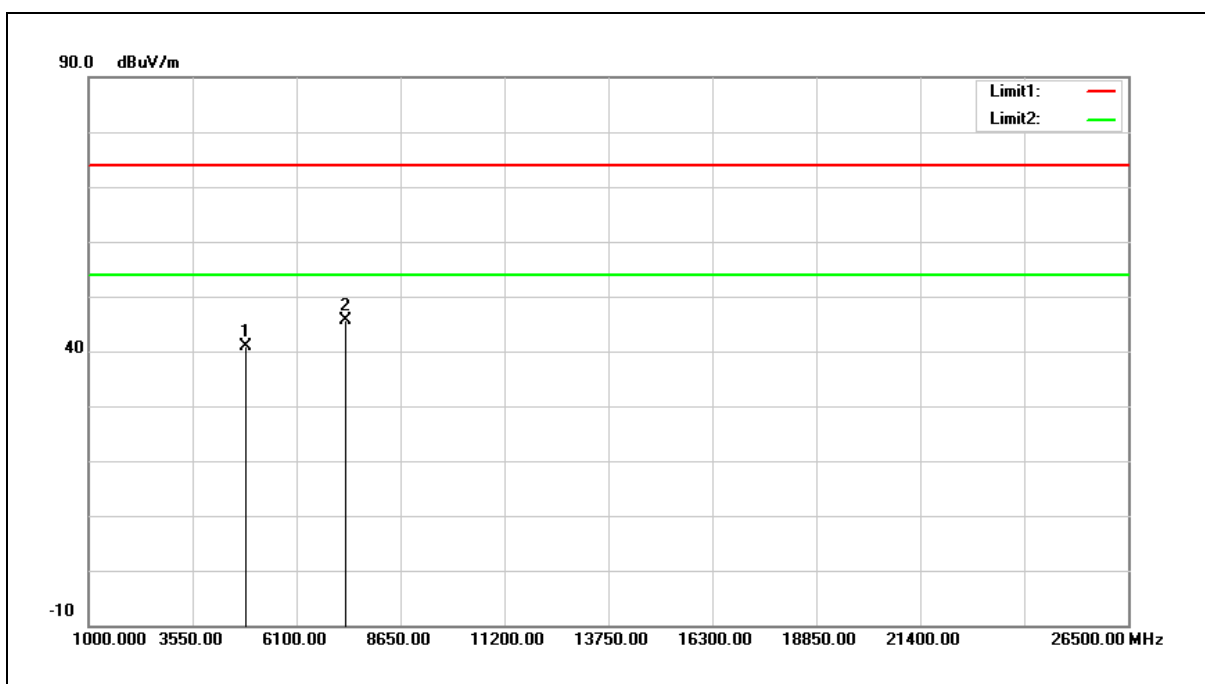
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	48.56	-8.37	40.19	74.00	-33.81	peak
2	7311.000	45.48	-0.66	44.82	74.00	-29.18	peak

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

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

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

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



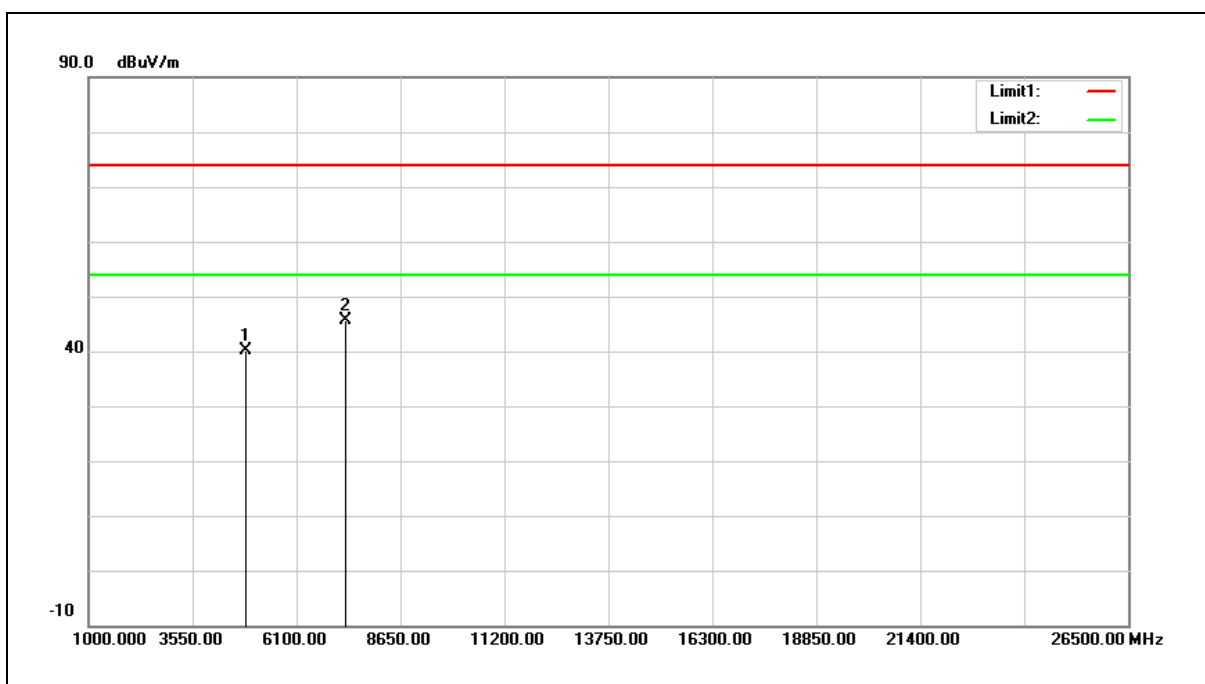
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.36	-8.37	40.99	74.00	-33.01	peak
2	7311.000	46.31	-0.66	45.65	74.00	-28.35	peak

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



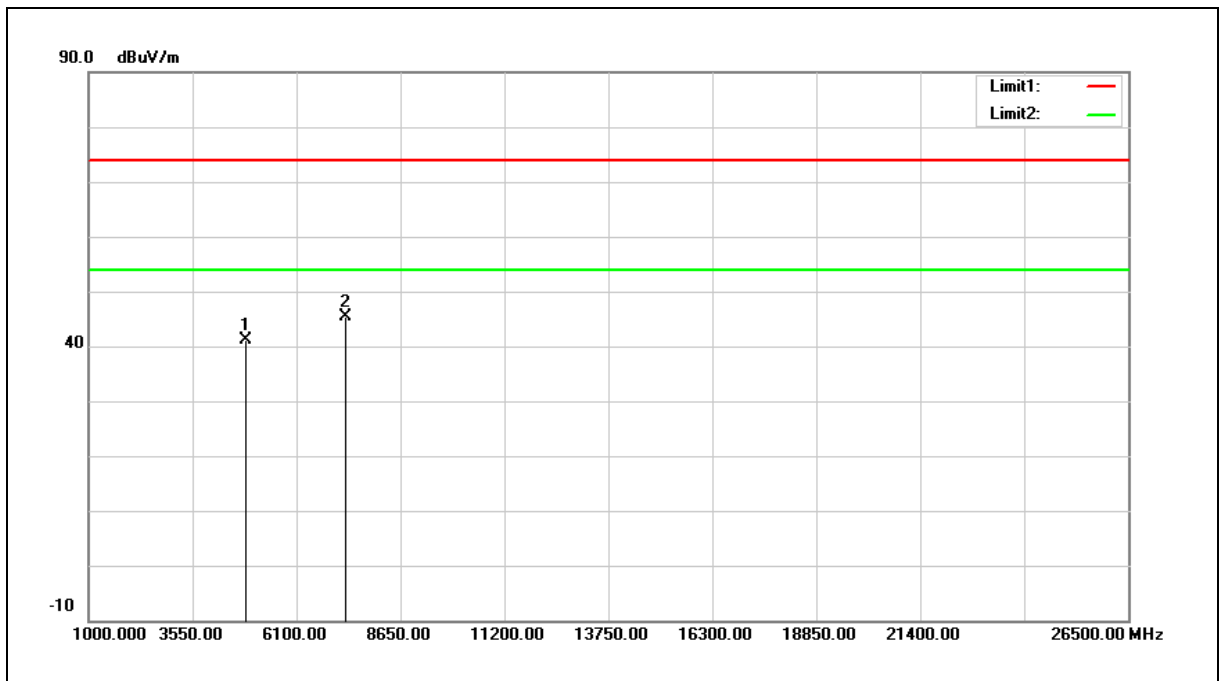
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	48.53	-8.37	40.16	74.00	-33.84	peak
2	7311.000	46.23	-0.66	45.57	74.00	-28.43	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.57	-8.37	41.20	74.00	-32.80	peak
2	7311.000	45.98	-0.66	45.32	74.00	-28.68	peak

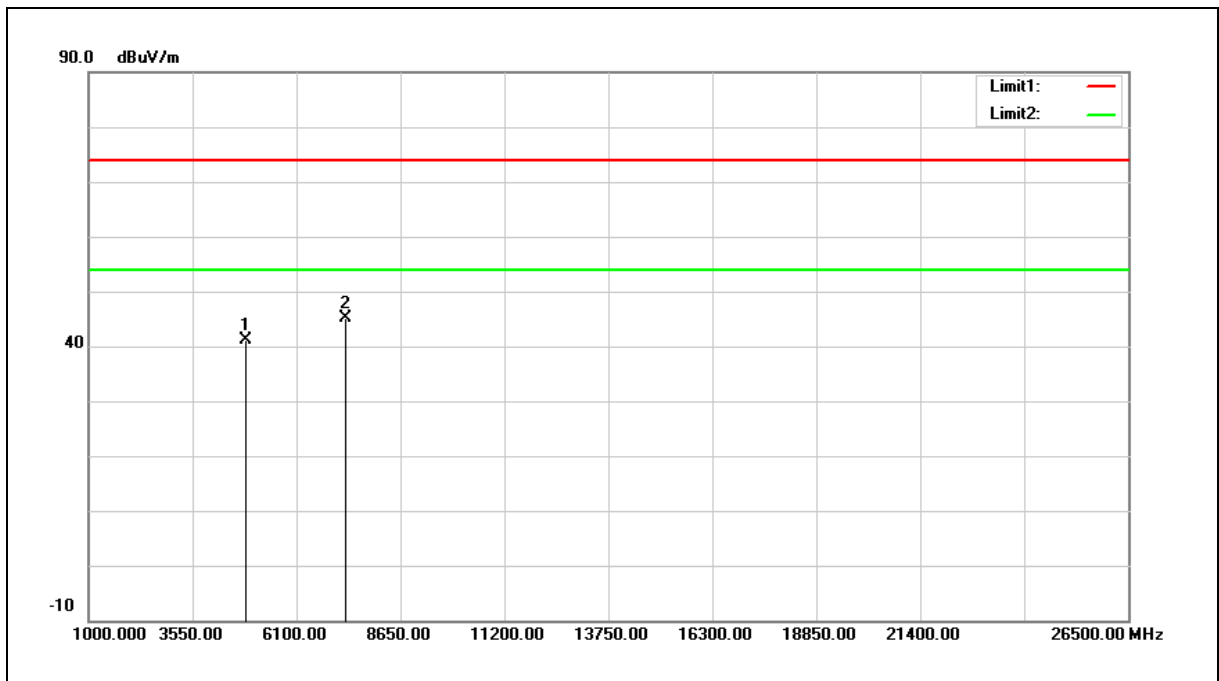
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

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:	Harmonic		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Horizontal		



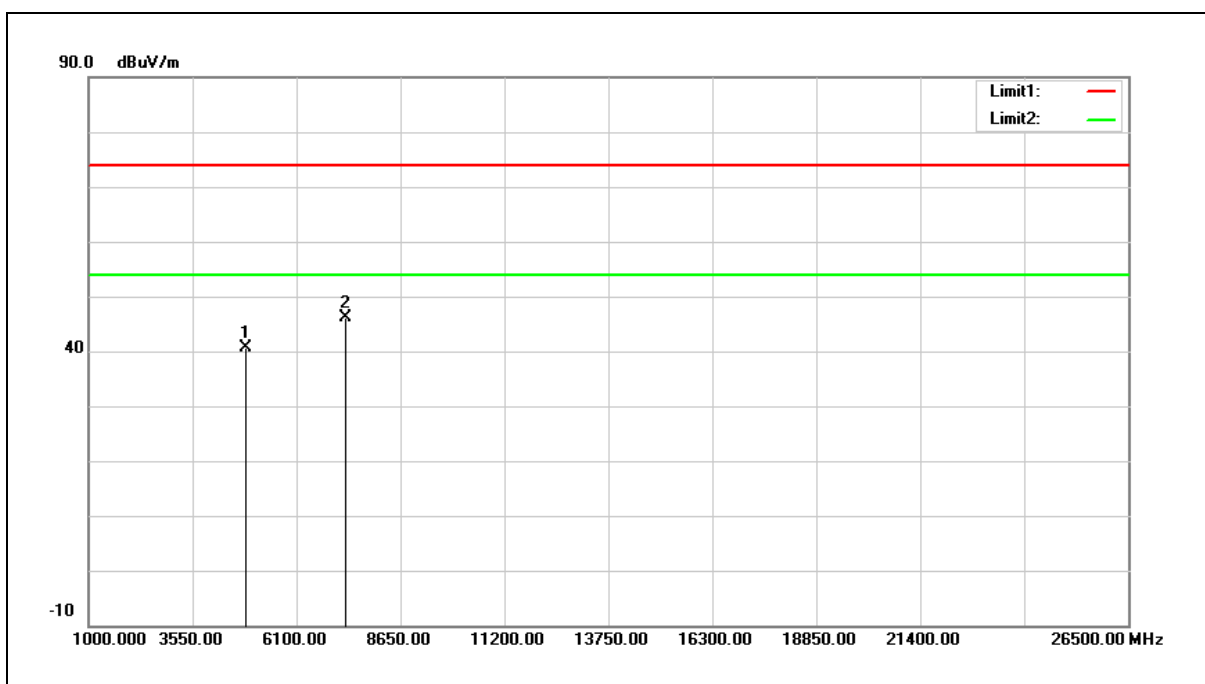
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.43	-8.37	41.06	74.00	-32.94	peak
2	7311.000	45.71	-0.66	45.05	74.00	-28.95	peak

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		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Vertical		



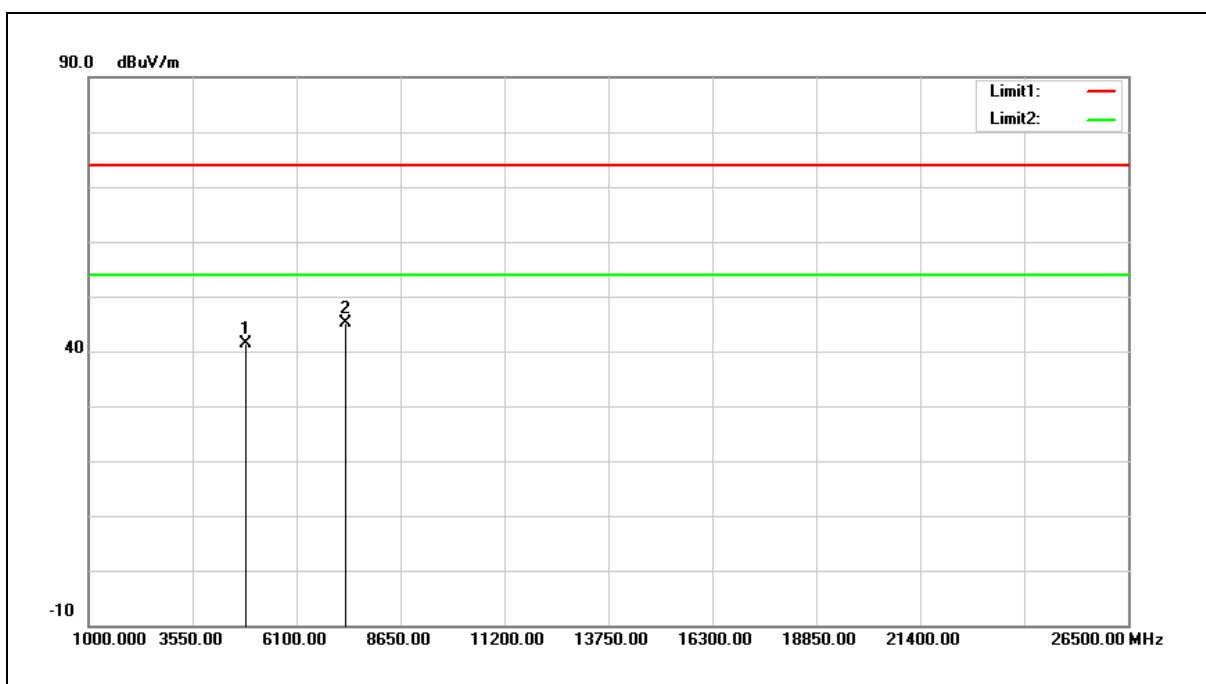
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.07	-8.37	40.70	74.00	-33.30	peak
2	7311.000	46.86	-0.66	46.20	74.00	-27.80	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Horizontal		



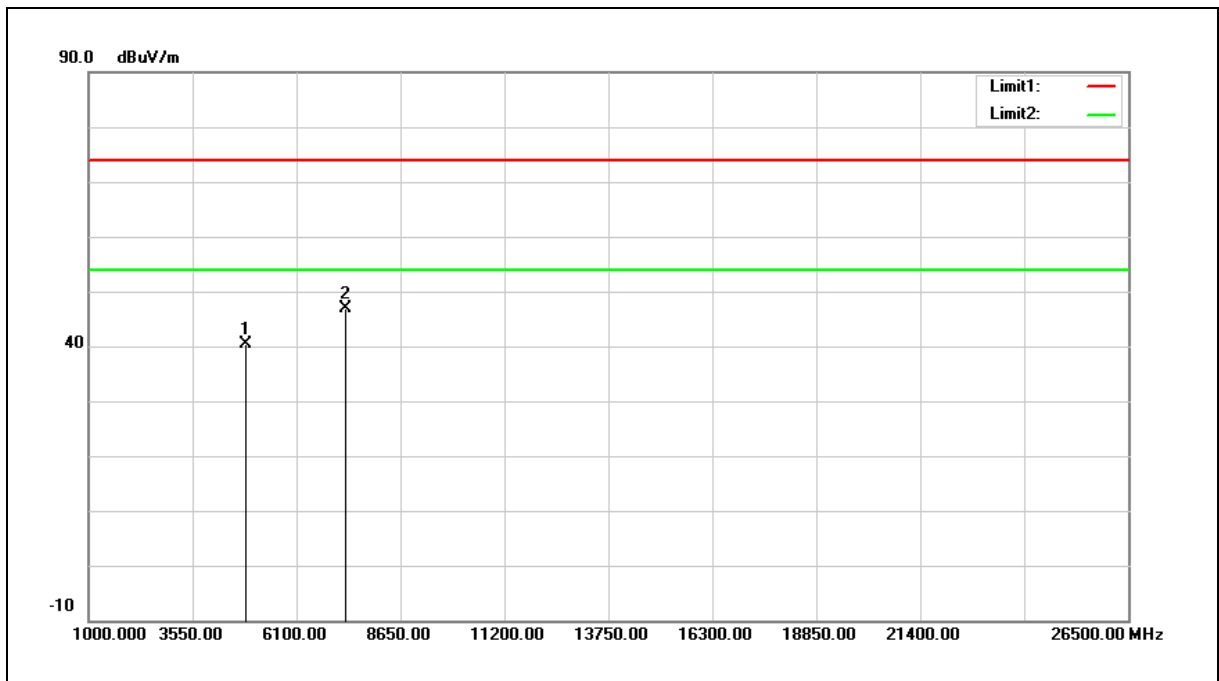
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.82	-8.37	41.45	74.00	-32.55	peak
2	7311.000	45.83	-0.66	45.17	74.00	-28.83	peak

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		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Vertical		



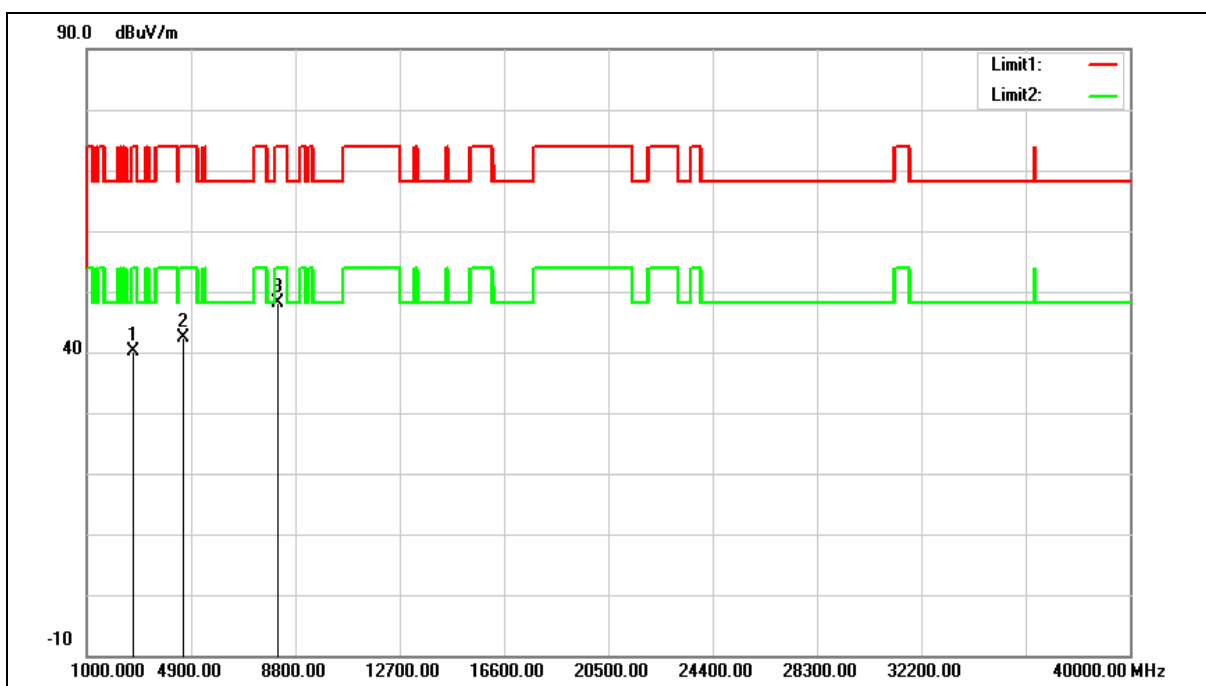
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	48.79	-8.37	40.42	74.00	-33.58	peak
2	7311.000	47.56	-0.66	46.90	74.00	-27.10	peak

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



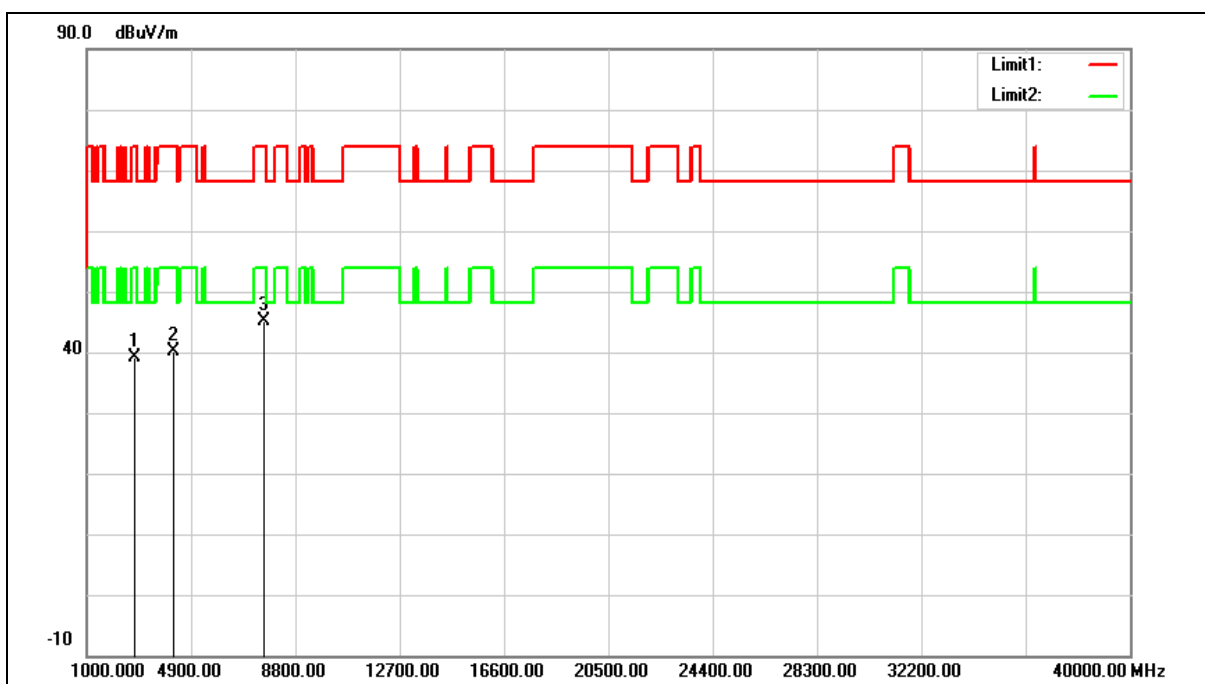
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2734.000	53.05	-13.01	40.04	74.00	-33.96	peak
2	4587.000	51.41	-9.04	42.37	74.00	-31.63	peak
3	8106.000	46.46	1.55	48.01	74.00	-25.99	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Transmitter Unwanted Emissions		
Test Mode:	Simultaneous Transmitting (WLAN 2.4 + 5 GHz)		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2785.000	51.94	-12.89	39.05	74.00	-34.95	peak
2	4247.000	49.94	-9.69	40.25	74.00	-33.75	peak
3	7613.000	44.74	0.49	45.23	74.00	-28.77	peak

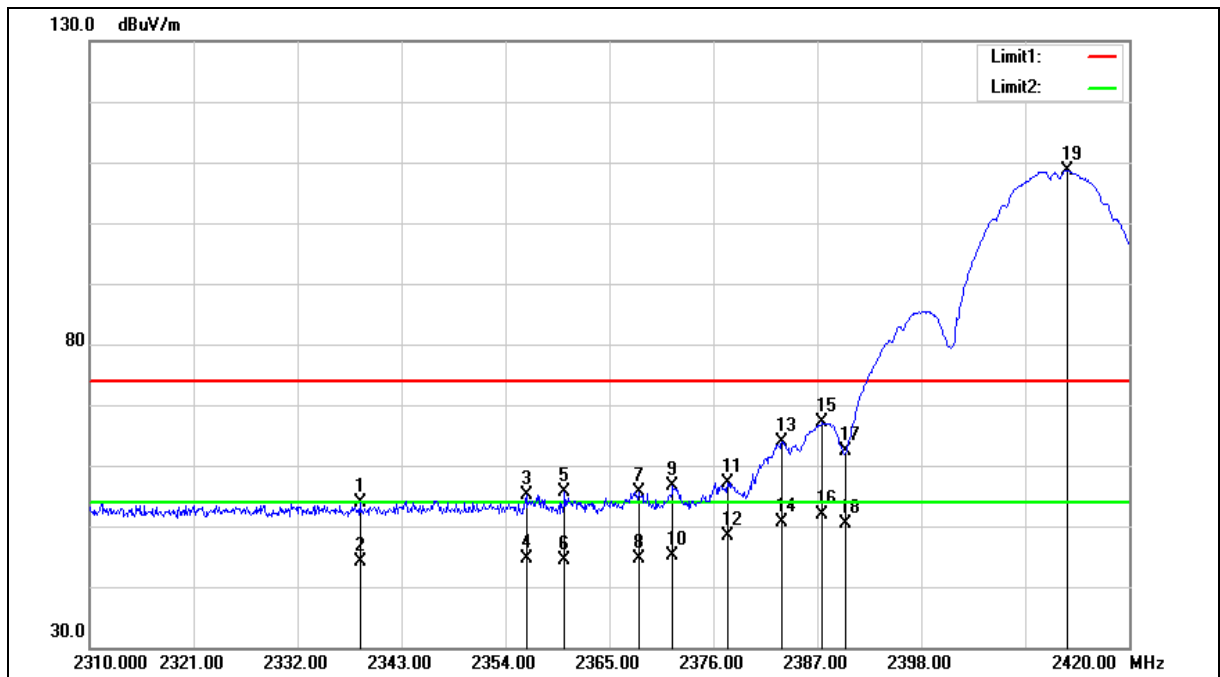
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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

Band Edge

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





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

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2338.600	68.15	-14.38	53.77	74.00	-20.23	peak
2	2338.600	58.53	-14.38	44.15	54.00	-9.85	AVG
3	2356.200	69.45	-14.30	55.15	74.00	-18.85	peak
4	2356.200	58.83	-14.30	44.53	54.00	-9.47	AVG
5	2360.270	69.80	-14.28	55.52	74.00	-18.48	peak
6	2360.270	58.78	-14.28	44.50	54.00	-9.50	AVG
7	2368.080	69.89	-14.24	55.65	74.00	-18.35	peak
8	2368.080	58.96	-14.24	44.72	54.00	-9.28	AVG
9	2371.710	70.96	-14.22	56.74	74.00	-17.26	peak
10	2371.710	59.43	-14.22	45.21	54.00	-8.79	AVG
11	2377.540	71.42	-14.19	57.23	74.00	-16.77	peak
12	2377.540	62.57	-14.19	48.38	54.00	-5.62	AVG
13	2383.260	78.00	-14.16	63.84	74.00	-10.16	peak
14	2383.260	64.81	-14.16	50.65	54.00	-3.35	AVG
15	2387.550	81.37	-14.13	67.24	74.00	-6.76	peak
16	2387.550	66.00	-14.13	51.87	54.00	-2.13	AVG
17	2390.000	76.39	-14.12	62.27	74.00	-11.73	peak
18	2390.000	64.40	-14.12	50.28	54.00	-3.72	AVG
19	2413.400	122.59	-14.01	108.58	--	--	peak

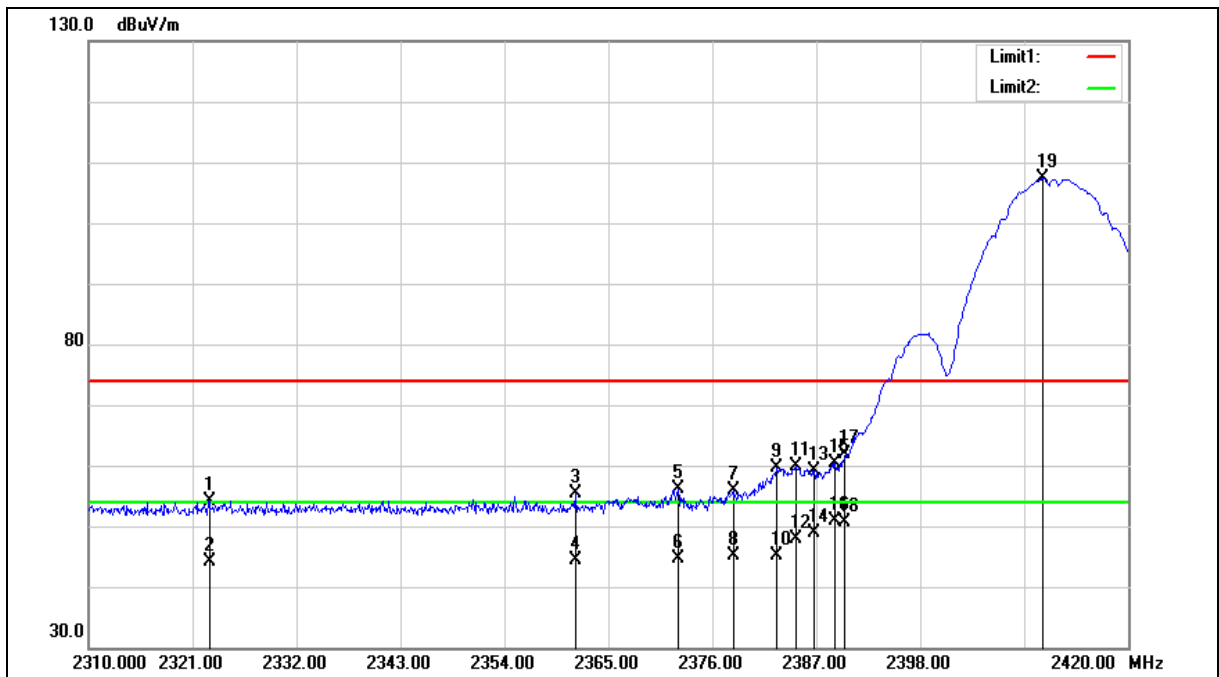
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



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





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

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2322.760	68.66	-14.45	54.21	74.00	-19.79	peak
2	2322.760	58.56	-14.45	44.11	54.00	-9.89	AVG
3	2361.480	69.69	-14.27	55.42	74.00	-18.58	peak
4	2361.480	58.64	-14.27	44.37	54.00	-9.63	AVG
5	2372.370	70.36	-14.21	56.15	74.00	-17.85	peak
6	2372.370	58.79	-14.21	44.58	54.00	-9.42	AVG
7	2378.200	70.10	-14.18	55.92	74.00	-18.08	peak
8	2378.200	59.36	-14.18	45.18	54.00	-8.82	AVG
9	2382.820	73.77	-14.16	59.61	74.00	-14.39	peak
10	2382.820	59.27	-14.16	45.11	54.00	-8.89	AVG
11	2384.800	74.07	-14.15	59.92	74.00	-14.08	peak
12	2384.800	62.09	-14.15	47.94	54.00	-6.06	AVG
13	2386.780	73.33	-14.13	59.20	74.00	-14.80	peak
14	2386.780	62.93	-14.13	48.80	54.00	-5.20	AVG
15	2388.980	74.47	-14.13	60.34	74.00	-13.66	peak
16	2388.980	65.09	-14.13	50.96	54.00	-3.04	AVG
17	2390.000	75.97	-14.12	61.85	74.00	-12.15	peak
18	2390.000	64.66	-14.12	50.54	54.00	-3.46	AVG
19	2410.980	121.32	-14.02	107.30	--	--	peak

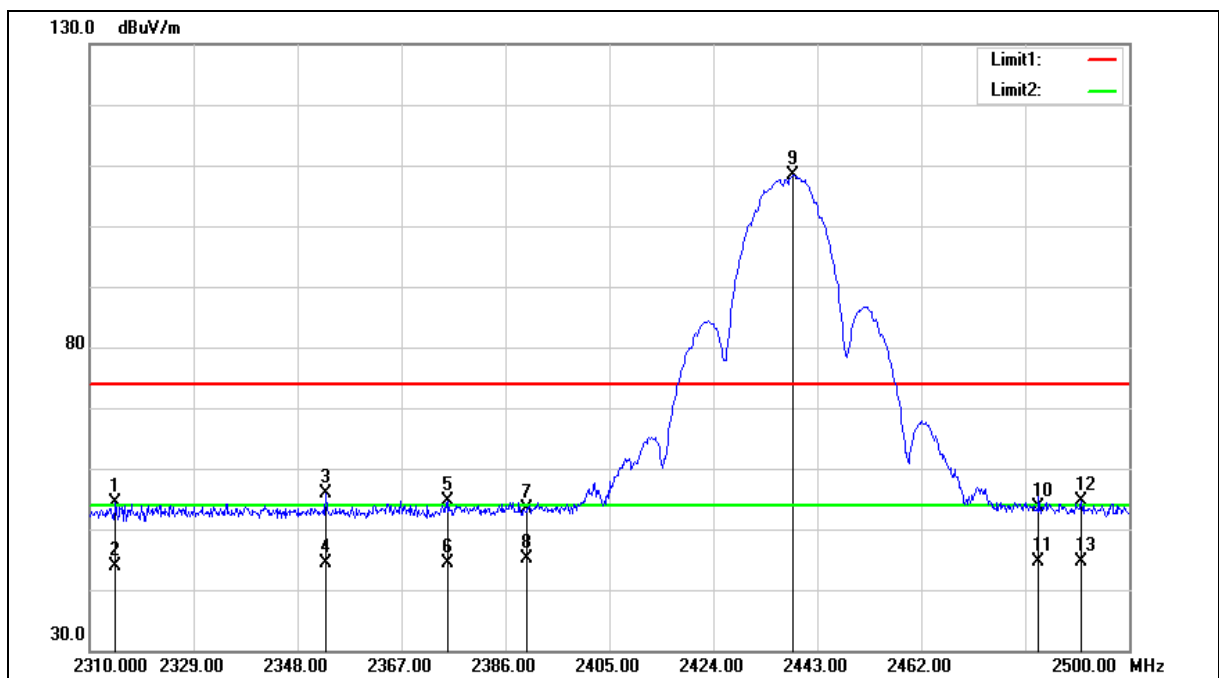
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



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





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

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2314.750	68.97	-14.50	54.47	74.00	-19.53	peak
2	2314.750	58.43	-14.50	43.93	54.00	-10.07	AVG
3	2353.130	70.11	-14.30	55.81	74.00	-18.19	peak
4	2353.130	58.66	-14.30	44.36	54.00	-9.64	AVG
5	2375.550	68.75	-14.19	54.56	74.00	-19.44	peak
6	2375.550	58.67	-14.19	44.48	54.00	-9.52	AVG
7	2390.000	67.58	-14.12	53.46	74.00	-20.54	peak
8	2390.000	59.27	-14.12	45.15	54.00	-8.85	AVG
9	2438.440	122.20	-13.90	108.30	--	--	peak
10	2483.500	67.24	-13.68	53.56	74.00	-20.44	peak
11	2483.500	58.24	-13.68	44.56	54.00	-9.44	AVG
12	2491.260	68.22	-13.64	54.58	74.00	-19.42	peak
13	2491.260	58.23	-13.64	44.59	54.00	-9.41	AVG

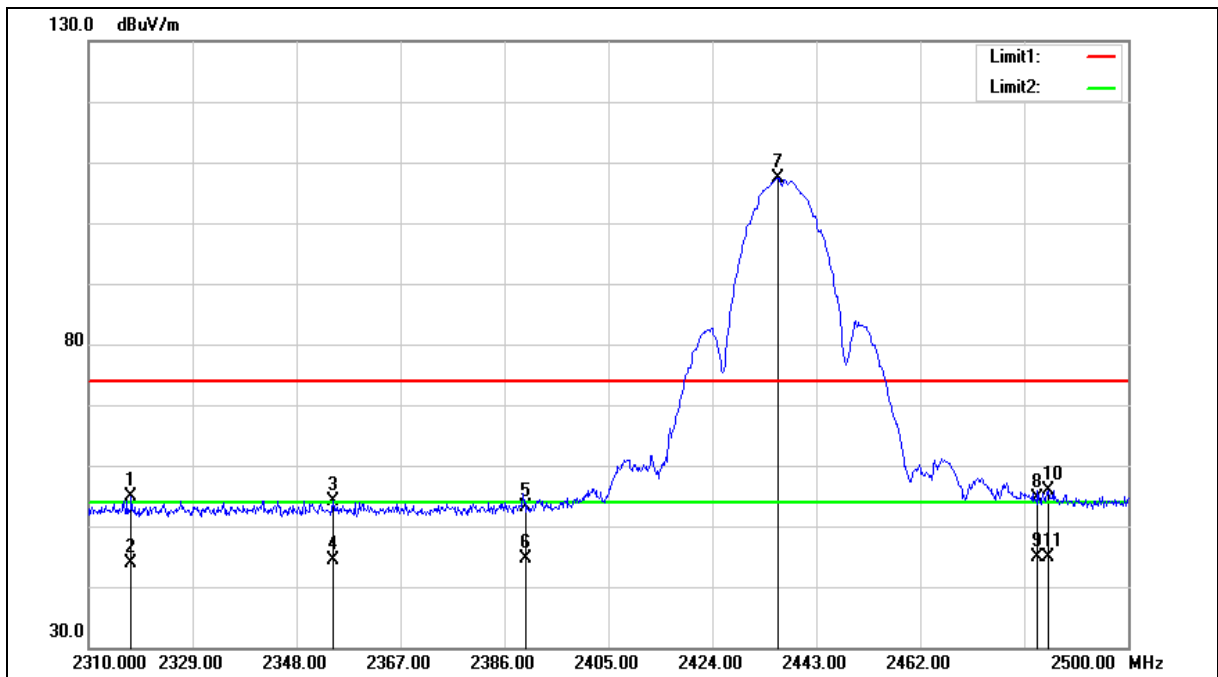
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2317.790	69.45	-14.48	54.97	74.00	-19.03	peak
2	2317.790	58.39	-14.48	43.91	54.00	-10.09	AVG
3	2354.650	68.55	-14.30	54.25	74.00	-19.75	peak
4	2354.650	58.80	-14.30	44.50	54.00	-9.50	AVG
5	2390.000	67.16	-14.12	53.04	74.00	-20.96	peak
6	2390.000	58.82	-14.12	44.70	54.00	-9.30	AVG
7	2435.970	121.23	-13.90	107.33	--	--	peak
8	2483.500	68.35	-13.68	54.67	74.00	-19.33	peak
9	2483.500	58.54	-13.68	44.86	54.00	-9.14	AVG
10	2485.370	69.48	-13.67	55.81	74.00	-18.19	peak
11	2485.370	58.58	-13.67	44.91	54.00	-9.09	AVG

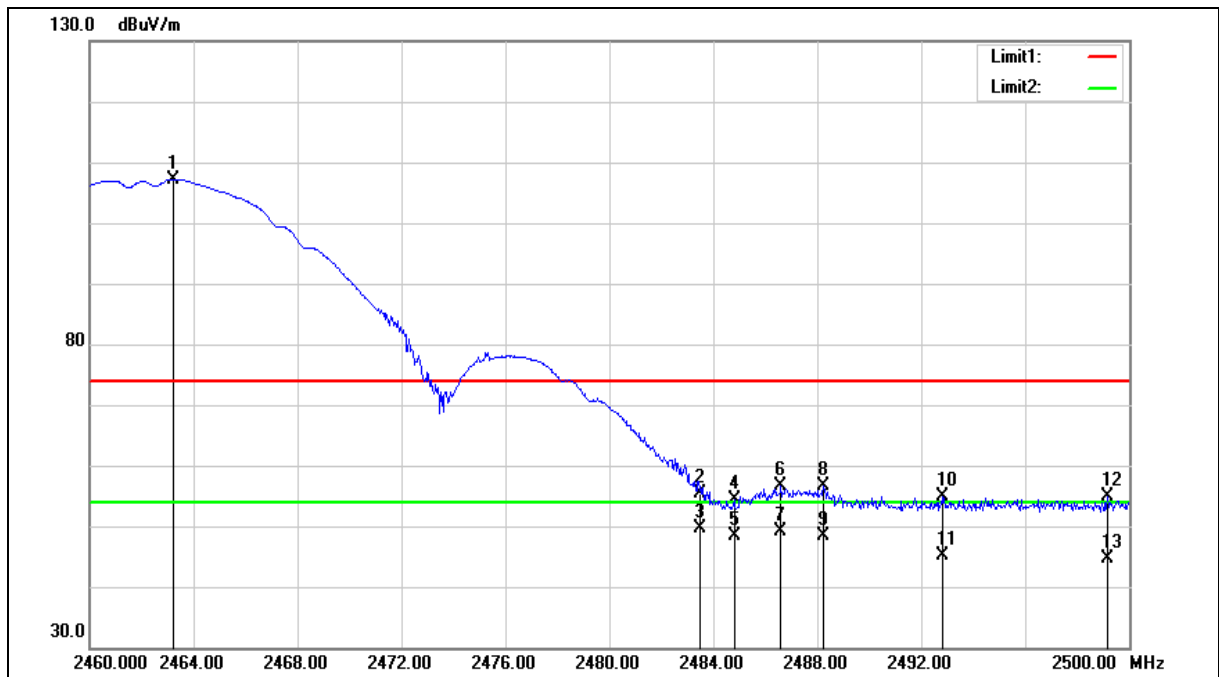
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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





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

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.240	120.96	-13.76	107.20	--	--	peak
2	2483.500	69.03	-13.68	55.35	74.00	-18.65	peak
3	2483.500	63.39	-13.68	49.71	54.00	-4.29	AVG
4	2484.800	68.13	-13.67	54.46	74.00	-19.54	peak
5	2484.800	62.12	-13.67	48.45	54.00	-5.55	AVG
6	2486.600	70.17	-13.66	56.51	74.00	-17.49	peak
7	2486.600	62.67	-13.66	49.01	54.00	-4.99	AVG
8	2488.240	70.37	-13.65	56.72	74.00	-17.28	peak
9	2488.240	62.00	-13.65	48.35	54.00	-5.65	AVG
10	2492.800	68.48	-13.62	54.86	74.00	-19.14	peak
11	2492.800	58.75	-13.62	45.13	54.00	-8.87	AVG
12	2499.160	68.37	-13.59	54.78	74.00	-19.22	peak
13	2499.160	58.20	-13.59	44.61	54.00	-9.39	AVG

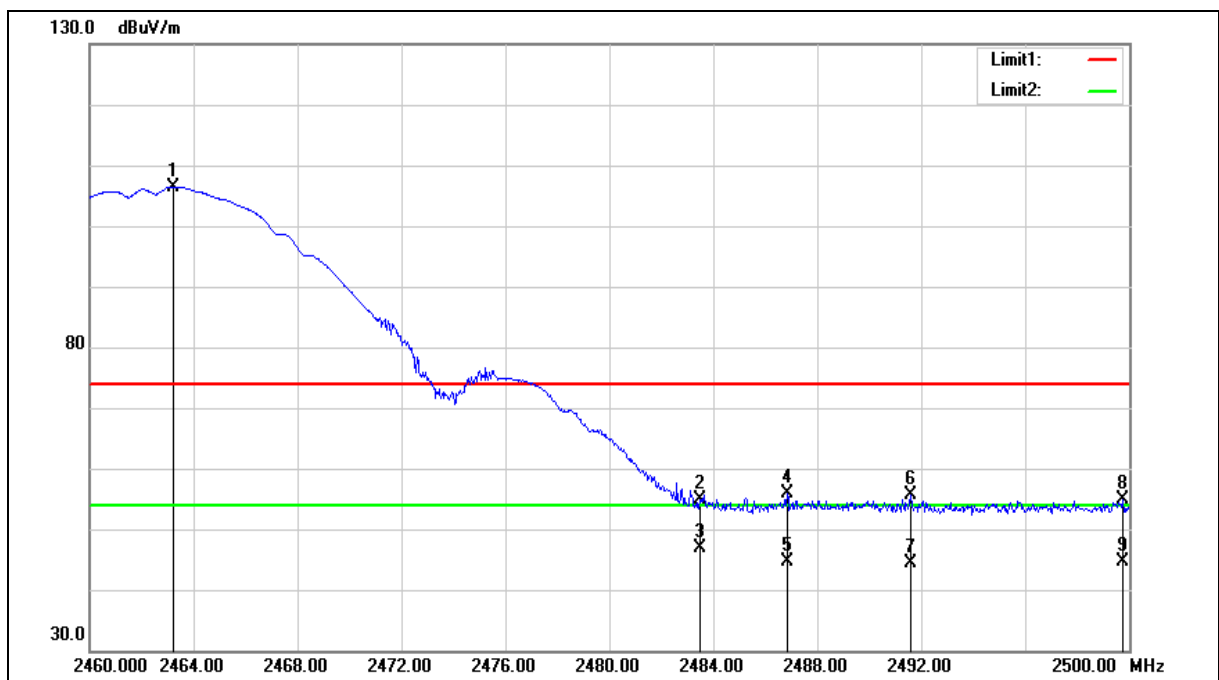
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



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





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

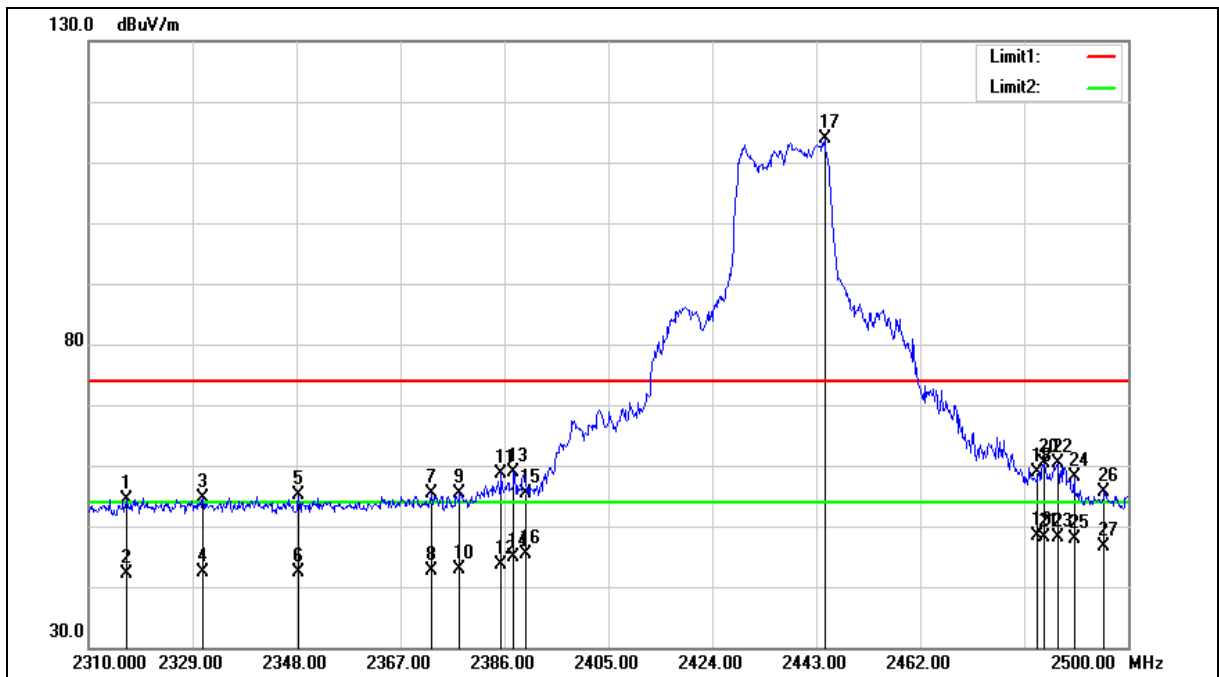
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.240	120.24	-13.76	106.48	--	--	peak
2	2483.500	68.67	-13.68	54.99	74.00	-19.01	peak
3	2483.500	60.60	-13.68	46.92	54.00	-7.08	AVG
4	2486.840	69.41	-13.65	55.76	74.00	-18.24	peak
5	2486.840	58.26	-13.65	44.61	54.00	-9.39	AVG
6	2491.600	69.15	-13.63	55.52	74.00	-18.48	peak
7	2491.600	58.12	-13.63	44.49	54.00	-9.51	AVG
8	2499.760	68.48	-13.59	54.89	74.00	-19.11	peak
9	2499.760	58.17	-13.59	44.58	54.00	-9.42	AVG

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

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

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

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





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

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2317.030	68.77	-14.48	54.29	74.00	-19.71	peak
2	2317.030	56.70	-14.48	42.22	54.00	-11.78	AVG
3	2330.900	69.02	-14.41	54.61	74.00	-19.39	peak
4	2330.900	56.69	-14.41	42.28	54.00	-11.72	AVG
5	2348.380	69.42	-14.33	55.09	74.00	-18.91	peak
6	2348.380	56.69	-14.33	42.36	54.00	-11.64	AVG
7	2372.700	69.62	-14.21	55.41	74.00	-18.59	peak
8	2372.700	56.82	-14.21	42.61	54.00	-11.39	AVG
9	2377.830	69.49	-14.19	55.30	74.00	-18.70	peak
10	2377.830	56.98	-14.19	42.79	54.00	-11.21	AVG
11	2385.430	72.90	-14.15	58.75	74.00	-15.25	peak
12	2385.430	57.82	-14.15	43.67	54.00	-10.33	AVG
13	2387.710	73.04	-14.13	58.91	74.00	-15.09	peak
14	2387.710	58.95	-14.13	44.82	54.00	-9.18	AVG
15	2390.000	69.53	-14.12	55.41	74.00	-18.59	peak
16	2390.000	59.47	-14.12	45.35	54.00	-8.65	AVG
17	2444.520	127.67	-13.87	113.80	--	--	peak
18	2483.500	72.65	-13.68	58.97	74.00	-15.03	peak
19	2483.500	62.01	-13.68	48.33	54.00	-5.67	AVG
20	2484.610	74.14	-13.67	60.47	74.00	-13.53	peak
21	2484.610	61.69	-13.67	48.02	54.00	-5.98	AVG
22	2487.270	74.04	-13.65	60.39	74.00	-13.61	peak
23	2487.270	61.75	-13.65	48.10	54.00	-5.90	AVG

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

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

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



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

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2490.120	71.69	-13.64	58.05	74.00	-15.95	peak
25	2490.120	61.49	-13.64	47.85	54.00	-6.15	AVG
26	2495.630	69.27	-13.61	55.66	74.00	-18.34	peak
27	2495.630	60.31	-13.61	46.70	54.00	-7.30	AVG

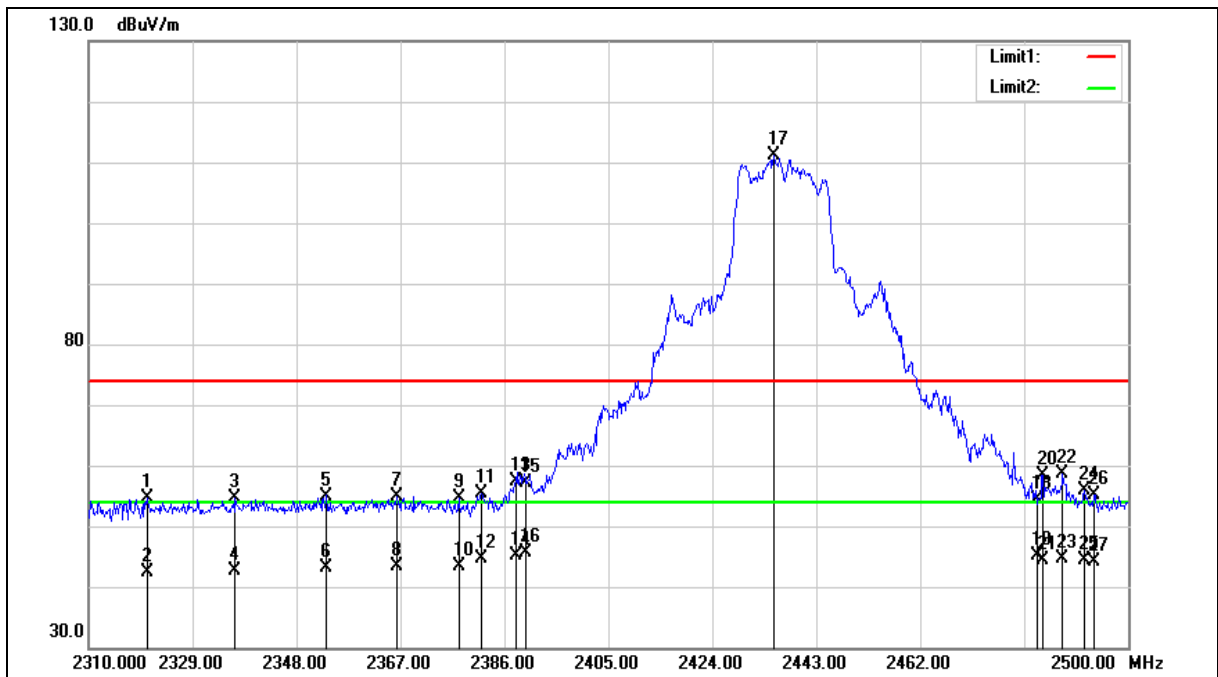
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2320.640	69.04	-14.47	54.57	74.00	-19.43	peak
2	2320.640	56.75	-14.47	42.28	54.00	-11.72	AVG
3	2336.790	68.91	-14.38	54.53	74.00	-19.47	peak
4	2336.790	56.92	-14.38	42.54	54.00	-11.46	AVG
5	2353.510	69.30	-14.30	55.00	74.00	-19.00	peak
6	2353.510	57.41	-14.30	43.11	54.00	-10.89	AVG
7	2366.430	69.15	-14.24	54.91	74.00	-19.09	peak
8	2366.430	57.62	-14.24	43.38	54.00	-10.62	AVG
9	2377.640	68.70	-14.19	54.51	74.00	-19.49	peak
10	2377.640	57.68	-14.19	43.49	54.00	-10.51	AVG
11	2381.820	69.43	-14.16	55.27	74.00	-18.73	peak
12	2381.820	58.69	-14.16	44.53	54.00	-9.47	AVG
13	2388.090	71.60	-14.13	57.47	74.00	-16.53	peak
14	2388.090	59.30	-14.13	45.17	54.00	-8.83	AVG
15	2390.000	71.22	-14.12	57.10	74.00	-16.90	peak
16	2390.000	59.73	-14.12	45.61	54.00	-8.39	AVG
17	2435.210	125.10	-13.90	111.20	--	--	peak
18	2483.500	68.01	-13.68	54.33	74.00	-19.67	peak
19	2483.500	58.77	-13.68	45.09	54.00	-8.91	AVG
20	2484.420	71.95	-13.67	58.28	74.00	-15.72	peak
21	2484.420	58.03	-13.67	44.36	54.00	-9.64	AVG
22	2488.030	72.19	-13.65	58.54	74.00	-15.46	peak
23	2488.030	58.23	-13.65	44.58	54.00	-9.42	AVG

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

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2492.020	69.52	-13.63	55.89	74.00	-18.11	peak
25	2492.020	58.02	-13.63	44.39	54.00	-9.61	AVG
26	2493.730	68.78	-13.62	55.16	74.00	-18.84	peak
27	2493.730	57.85	-13.62	44.23	54.00	-9.77	AVG

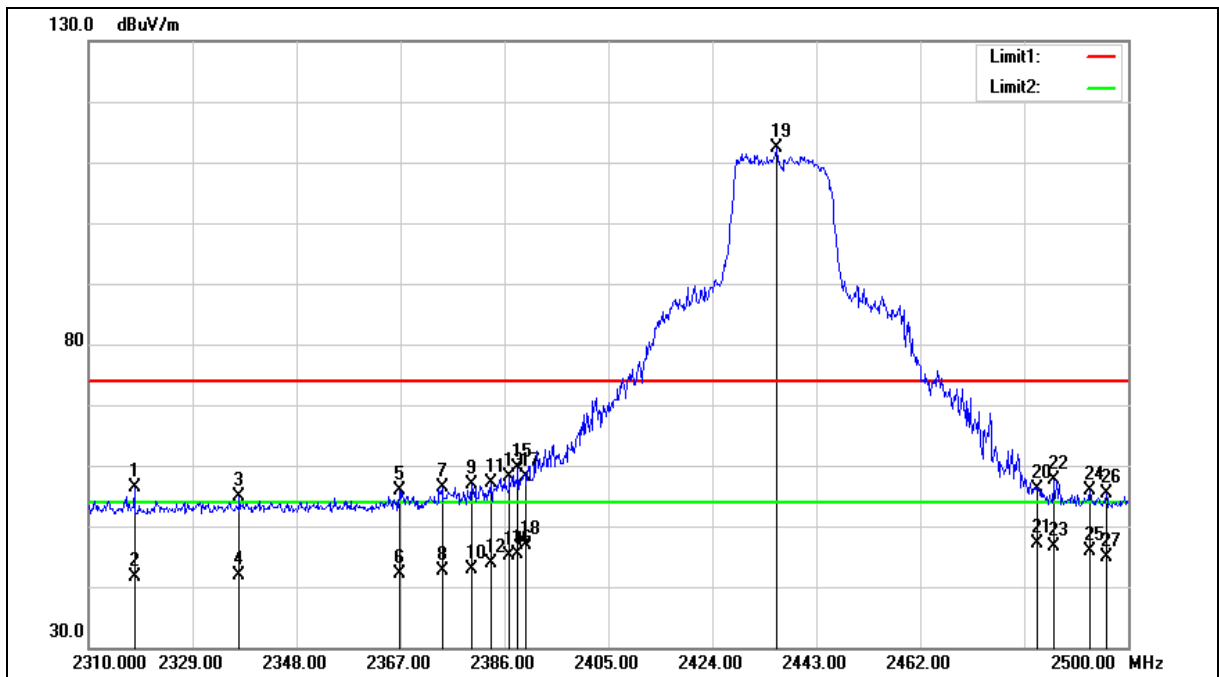
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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





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

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2318.360	70.90	-14.48	56.42	74.00	-17.58	peak
2	2318.360	56.18	-14.48	41.70	54.00	-12.30	AVG
3	2337.550	69.35	-14.38	54.97	74.00	-19.03	peak
4	2337.550	56.20	-14.38	41.82	54.00	-12.18	AVG
5	2366.810	70.00	-14.24	55.76	74.00	-18.24	peak
6	2366.810	56.34	-14.24	42.10	54.00	-11.90	AVG
7	2374.600	70.63	-14.21	56.42	74.00	-17.58	peak
8	2374.600	56.92	-14.21	42.71	54.00	-11.29	AVG
9	2379.920	70.99	-14.18	56.81	74.00	-17.19	peak
10	2379.920	57.17	-14.18	42.99	54.00	-11.01	AVG
11	2383.530	71.20	-14.16	57.04	74.00	-16.96	peak
12	2383.530	58.10	-14.16	43.94	54.00	-10.06	AVG
13	2386.950	72.16	-14.13	58.03	74.00	-15.97	peak
14	2386.950	59.23	-14.13	45.10	54.00	-8.90	AVG
15	2388.470	73.73	-14.13	59.60	74.00	-14.40	peak
16	2388.470	59.60	-14.13	45.47	54.00	-8.53	AVG
17	2390.000	72.17	-14.12	58.05	74.00	-15.95	peak
18	2390.000	60.95	-14.12	46.83	54.00	-7.17	AVG
19	2435.780	126.23	-13.90	112.33	--	--	peak
20	2483.500	69.83	-13.68	56.15	74.00	-17.85	peak
21	2483.500	60.90	-13.68	47.22	54.00	-6.78	AVG
22	2486.510	71.19	-13.66	57.53	74.00	-16.47	peak
23	2486.510	60.35	-13.66	46.69	54.00	-7.31	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		
Frequency:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2492.970	69.46	-13.62	55.84	74.00	-18.16	peak
25	2492.970	59.42	-13.62	45.80	54.00	-8.20	AVG
26	2496.010	69.03	-13.61	55.42	74.00	-18.58	peak
27	2496.010	58.51	-13.61	44.90	54.00	-9.10	AVG

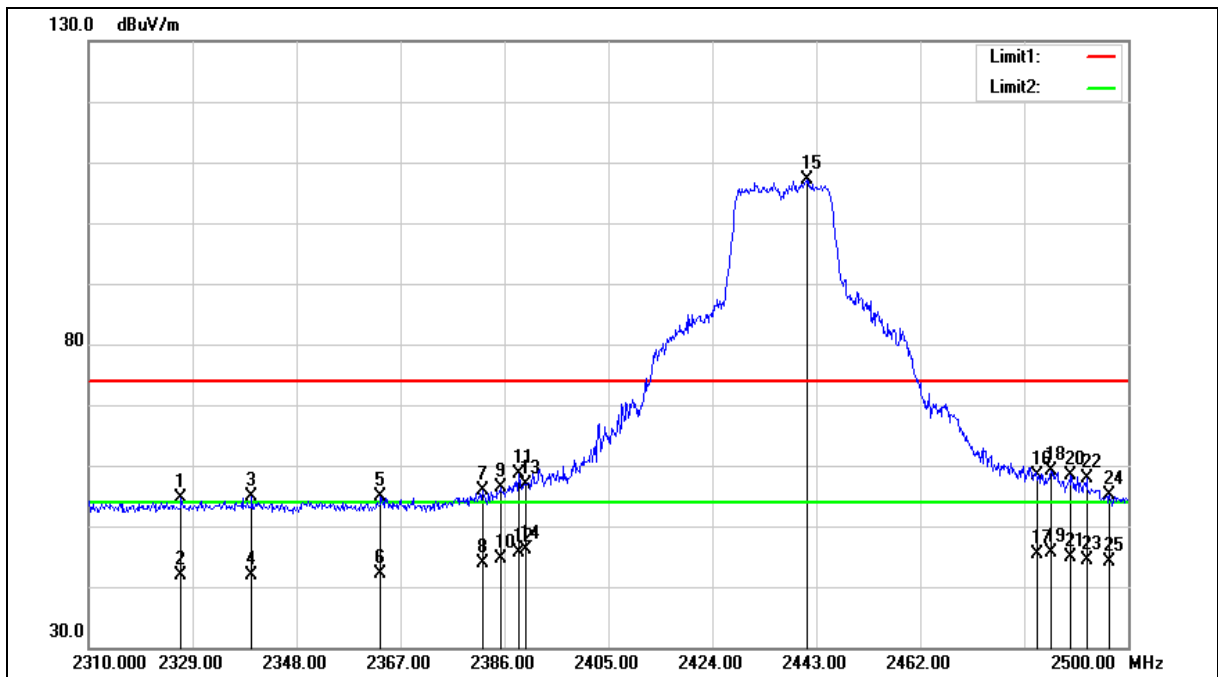
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2326.910	69.15	-14.44	54.71	74.00	-19.29	peak
2	2326.910	56.24	-14.44	41.80	54.00	-12.20	AVG
3	2339.830	69.20	-14.37	54.83	74.00	-19.17	peak
4	2339.830	56.28	-14.37	41.91	54.00	-12.09	AVG
5	2363.390	69.07	-14.25	54.82	74.00	-19.18	peak
6	2363.390	56.34	-14.25	42.09	54.00	-11.91	AVG
7	2382.010	69.93	-14.16	55.77	74.00	-18.23	peak
8	2382.010	58.03	-14.16	43.87	54.00	-10.13	AVG
9	2385.240	70.46	-14.15	56.31	74.00	-17.69	peak
10	2385.240	58.75	-14.15	44.60	54.00	-9.40	AVG
11	2388.660	72.84	-14.13	58.71	74.00	-15.29	peak
12	2388.660	59.67	-14.13	45.54	54.00	-8.46	AVG
13	2390.000	71.07	-14.12	56.95	74.00	-17.05	peak
14	2390.000	60.24	-14.12	46.12	54.00	-7.88	AVG
15	2441.290	121.05	-13.88	107.17	--	--	peak
16	2483.500	72.08	-13.68	58.40	74.00	-15.60	peak
17	2483.500	59.06	-13.68	45.38	54.00	-8.62	AVG
18	2485.940	72.67	-13.66	59.01	74.00	-14.99	peak
19	2485.940	59.17	-13.66	45.51	54.00	-8.49	AVG
20	2489.550	72.05	-13.65	58.40	74.00	-15.60	peak
21	2489.550	58.51	-13.65	44.86	54.00	-9.14	AVG
22	2492.400	71.42	-13.63	57.79	74.00	-16.21	peak
23	2492.400	58.12	-13.63	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 aver



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2496.580	68.81	-13.61	55.20	74.00	-18.80	peak
25	2496.580	57.82	-13.61	44.21	54.00	-9.79	AVG

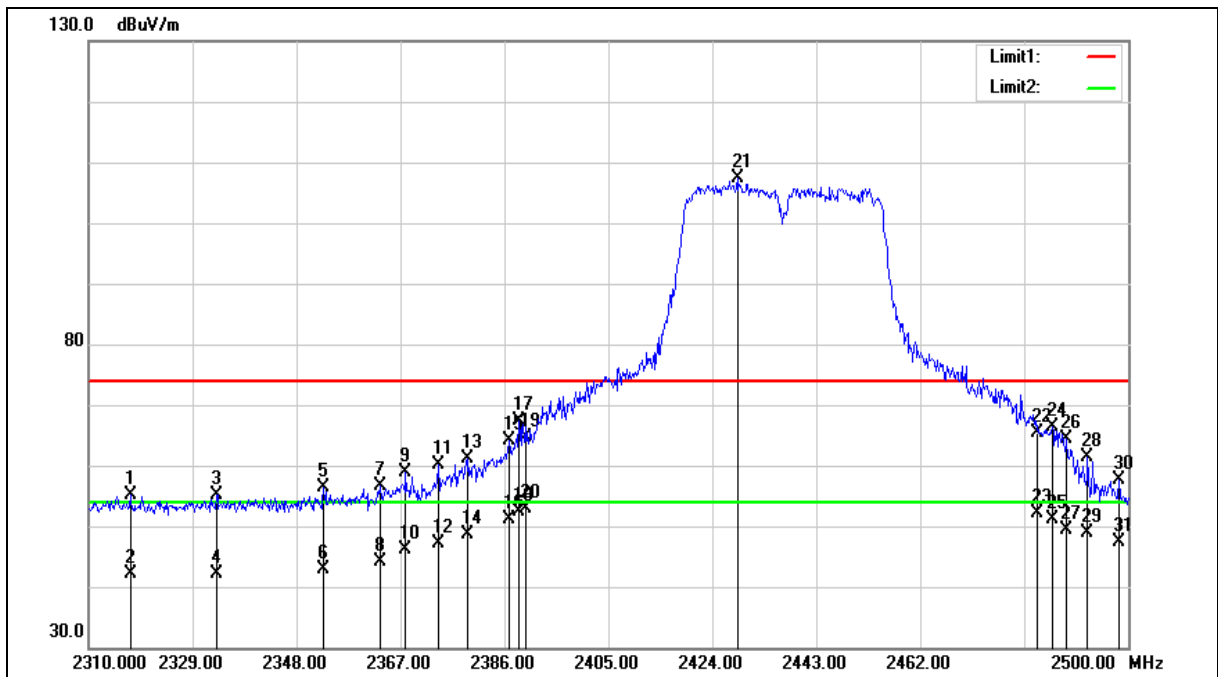
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2317.600	69.57	-14.48	55.09	74.00	-18.91	peak
2	2317.600	56.50	-14.48	42.02	54.00	-11.98	AVG
3	2333.370	69.60	-14.41	55.19	74.00	-18.81	peak
4	2333.370	56.52	-14.41	42.11	54.00	-11.89	AVG
5	2352.940	70.77	-14.30	56.47	74.00	-17.53	peak
6	2352.940	57.21	-14.30	42.91	54.00	-11.09	AVG
7	2363.390	70.86	-14.25	56.61	74.00	-17.39	peak
8	2363.390	58.33	-14.25	44.08	54.00	-9.92	AVG
9	2367.950	73.03	-14.24	58.79	74.00	-15.21	peak
10	2367.950	60.29	-14.24	46.05	54.00	-7.95	AVG
11	2374.030	74.43	-14.21	60.22	74.00	-13.78	peak
12	2374.030	61.44	-14.21	47.23	54.00	-6.77	AVG
13	2379.350	75.43	-14.18	61.25	74.00	-12.75	peak
14	2379.350	62.74	-14.18	48.56	54.00	-5.44	AVG
15	2386.950	78.34	-14.13	64.21	74.00	-9.79	peak
16	2386.950	65.33	-14.13	51.20	54.00	-2.80	AVG
17	2388.660	81.45	-14.13	67.32	74.00	-6.68	peak
18	2388.660	66.47	-14.13	52.34	54.00	-1.66	AVG
19	2390.000	78.68	-14.12	64.56	74.00	-9.44	peak
20	2390.000	66.99	-14.12	52.87	54.00	-1.13	AVG
21	2428.560	121.33	-13.93	107.40	--	--	peak
22	2483.500	79.05	-13.68	65.37	74.00	-8.63	peak
23	2483.500	65.70	-13.68	52.02	54.00	-1.98	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2486.130	80.08	-13.66	66.42	74.00	-7.58	peak
25	2486.130	64.69	-13.66	51.03	54.00	-2.97	AVG
26	2488.790	77.96	-13.65	64.31	74.00	-9.69	peak
27	2488.790	63.04	-13.65	49.39	54.00	-4.61	AVG
28	2492.590	75.09	-13.63	61.46	74.00	-12.54	peak
29	2492.590	62.51	-13.63	48.88	54.00	-5.12	AVG
30	2498.290	71.30	-13.60	57.70	74.00	-16.30	peak
31	2498.290	61.03	-13.60	47.43	54.00	-6.57	AVG

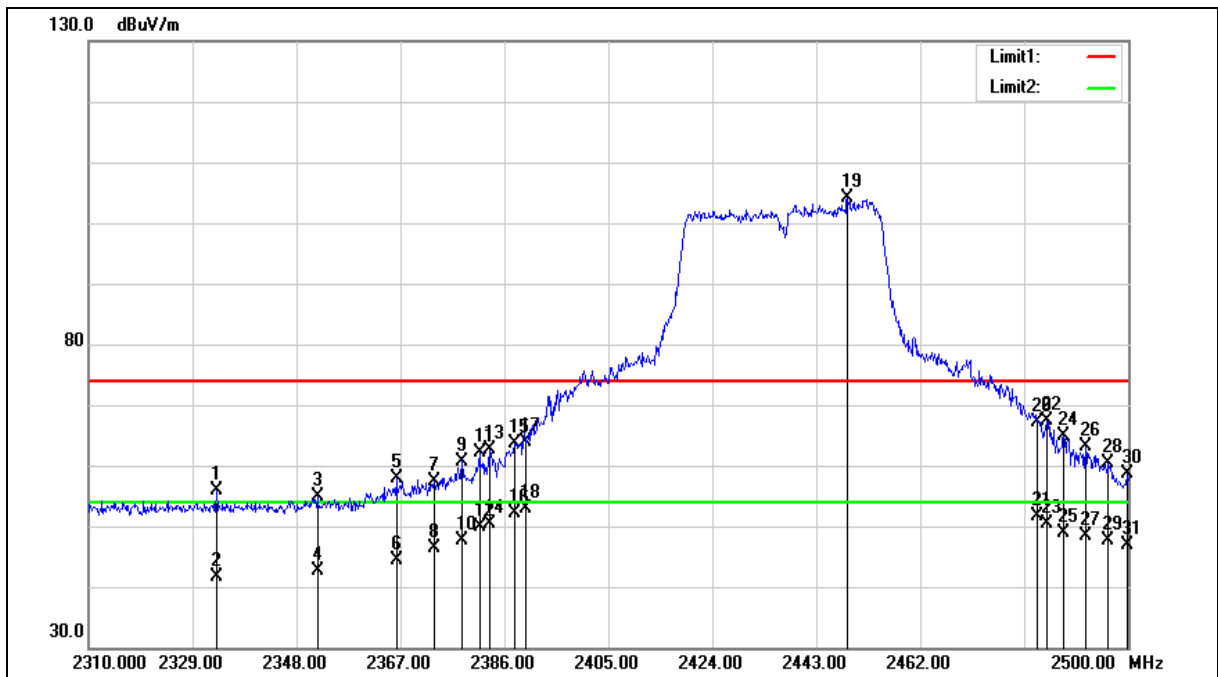
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2333.370	70.21	-14.41	55.80	74.00	-18.20	peak
2	2333.370	56.10	-14.41	41.69	54.00	-12.31	AVG
3	2351.800	69.24	-14.30	54.94	74.00	-19.06	peak
4	2351.800	57.03	-14.30	42.73	54.00	-11.27	AVG
5	2366.240	72.09	-14.24	57.85	74.00	-16.15	peak
6	2366.240	58.74	-14.24	44.50	54.00	-9.50	AVG
7	2373.080	71.50	-14.21	57.29	74.00	-16.71	peak
8	2373.080	60.60	-14.21	46.39	54.00	-7.61	AVG
9	2378.210	74.93	-14.18	60.75	74.00	-13.25	peak
10	2378.210	61.90	-14.18	47.72	54.00	-6.28	AVG
11	2381.440	76.21	-14.16	62.05	74.00	-11.95	peak
12	2381.440	64.09	-14.16	49.93	54.00	-4.07	AVG
13	2383.340	76.72	-14.16	62.56	74.00	-11.44	peak
14	2383.340	64.55	-14.16	50.39	54.00	-3.61	AVG
15	2387.900	77.65	-14.13	63.52	74.00	-10.48	peak
16	2387.900	66.23	-14.13	52.10	54.00	-1.90	AVG
17	2390.000	78.07	-14.12	63.95	74.00	-10.05	peak
18	2390.000	67.02	-14.12	52.90	54.00	-1.10	AVG
19	2448.700	117.88	-13.84	104.04	--	--	peak
20	2483.500	80.80	-13.68	67.12	74.00	-6.88	peak
21	2483.500	65.21	-13.68	51.53	54.00	-2.47	AVG
22	2485.180	81.14	-13.67	67.47	74.00	-6.53	peak
23	2485.180	64.10	-13.67	50.43	54.00	-3.57	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 aver



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2488.220	78.55	-13.65	64.90	74.00	-9.10	peak
25	2488.220	62.64	-13.65	48.99	54.00	-5.01	AVG
26	2492.210	76.75	-13.63	63.12	74.00	-10.88	peak
27	2492.210	62.04	-13.63	48.41	54.00	-5.59	AVG
28	2496.390	74.04	-13.61	60.43	74.00	-13.57	peak
29	2496.390	61.25	-13.61	47.64	54.00	-6.36	AVG
30	2499.810	72.18	-13.59	58.59	74.00	-15.41	peak
31	2499.810	60.39	-13.59	46.80	54.00	-7.20	AVG

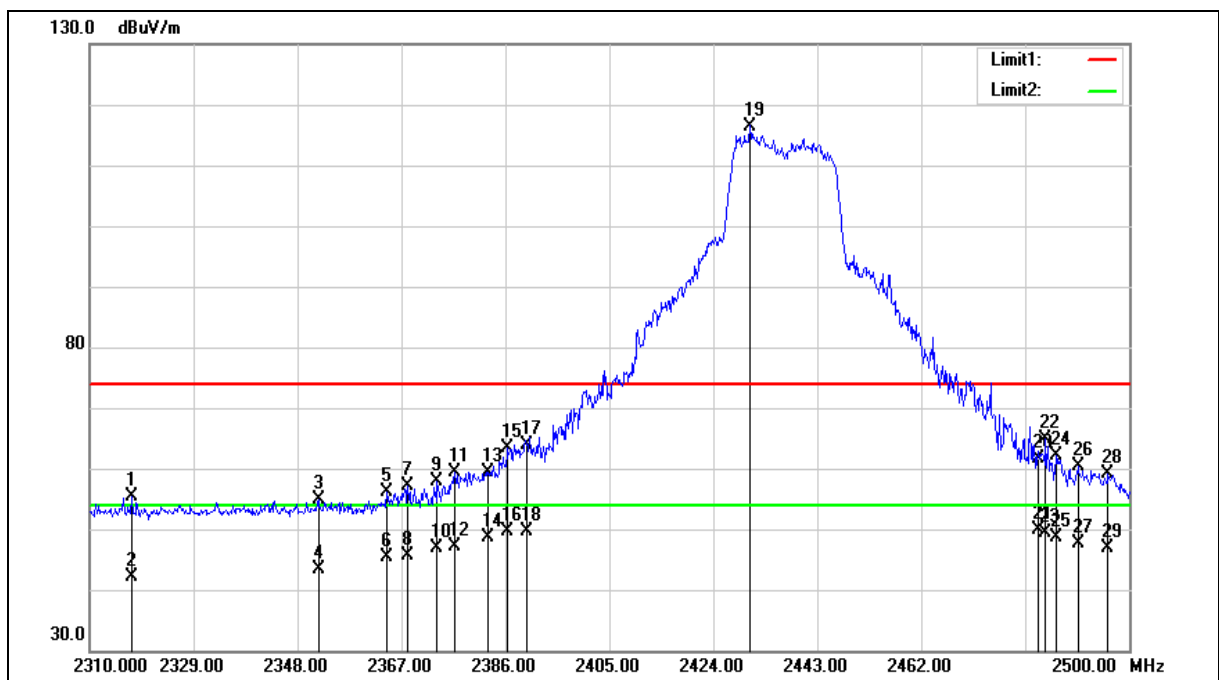
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 aver



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2317.608	69.83	-14.48	55.35	74.00	-18.65	peak
2	2317.608	56.65	-14.48	42.17	54.00	-11.83	AVG
3	2351.842	69.17	-14.30	54.87	74.00	-19.13	peak
4	2351.842	57.78	-14.30	43.48	54.00	-10.52	AVG
5	2364.394	70.41	-14.25	56.16	74.00	-17.84	peak
6	2364.394	59.54	-14.25	45.29	54.00	-8.71	AVG
7	2368.198	71.34	-14.24	57.10	74.00	-16.90	peak
8	2368.198	59.84	-14.24	45.60	54.00	-8.40	AVG
9	2373.523	72.05	-14.21	57.84	74.00	-16.16	peak
10	2373.523	61.12	-14.21	46.91	54.00	-7.09	AVG
11	2376.757	73.62	-14.19	59.43	74.00	-14.57	peak
12	2376.757	61.34	-14.19	47.15	54.00	-6.85	AVG
13	2382.843	73.66	-14.16	59.50	74.00	-14.50	peak
14	2382.843	62.70	-14.16	48.54	54.00	-5.46	AVG
15	2386.456	77.62	-14.15	63.47	74.00	-10.53	peak
16	2386.456	63.75	-14.15	49.60	54.00	-4.40	AVG
17	2390.000	78.09	-14.12	63.97	74.00	-10.03	peak
18	2390.000	63.67	-14.12	49.55	54.00	-4.45	AVG
19	2430.771	130.43	-13.93	116.50	--	--	peak
20	2483.500	75.42	-13.68	61.74	74.00	-12.26	peak
21	2483.500	63.67	-13.68	49.99	54.00	-4.01	AVG
22	2484.785	78.57	-13.67	64.90	74.00	-9.10	peak
23	2484.785	63.09	-13.67	49.42	54.00	-4.58	AVG

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

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2486.687	75.71	-13.66	62.05	74.00	-11.95	peak
25	2486.687	62.37	-13.66	48.71	54.00	-5.29	AVG
26	2490.681	74.01	-13.64	60.37	74.00	-13.63	peak
27	2490.681	61.19	-13.64	47.55	54.00	-6.45	AVG
28	2496.196	72.65	-13.61	59.04	74.00	-14.96	peak
29	2496.196	60.41	-13.61	46.80	54.00	-7.20	AVG

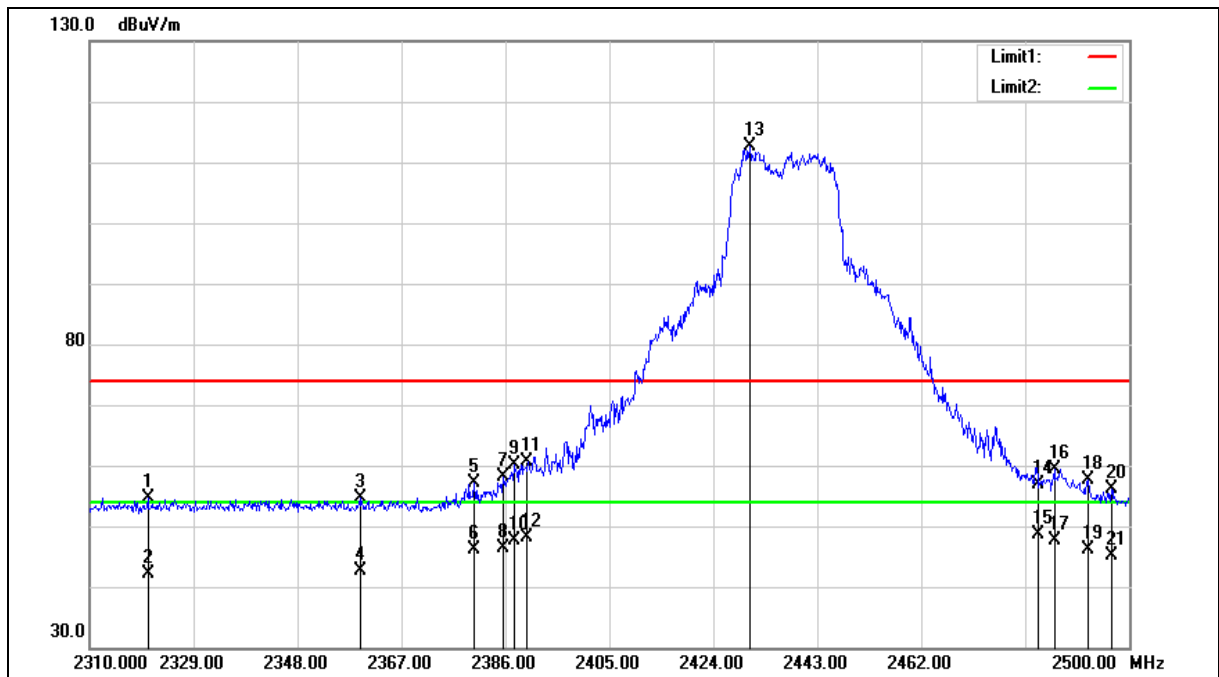
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Vertical		

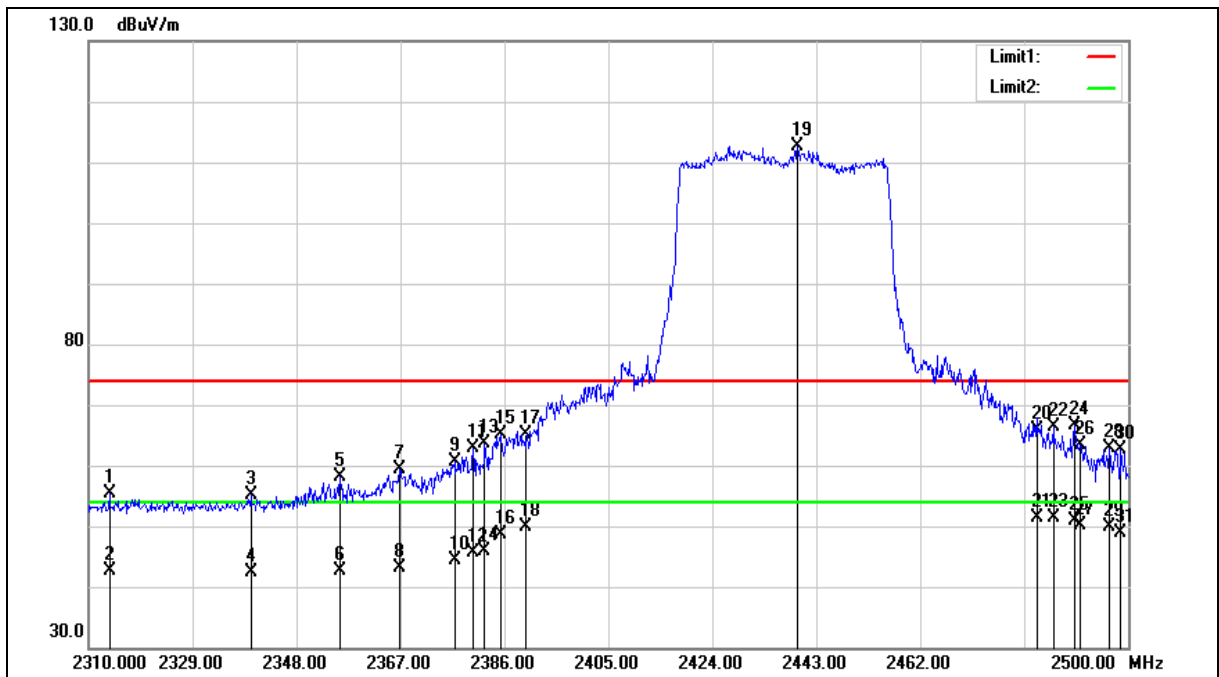
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2320.640	69.16	-14.47	54.69	74.00	-19.31	peak
2	2320.640	56.56	-14.47	42.09	54.00	-11.91	AVG
3	2359.400	68.80	-14.28	54.52	74.00	-19.48	peak
4	2359.400	56.88	-14.28	42.60	54.00	-11.40	AVG
5	2380.300	71.34	-14.18	57.16	74.00	-16.84	peak
6	2380.300	60.41	-14.18	46.23	54.00	-7.77	AVG
7	2385.620	72.17	-14.15	58.02	74.00	-15.98	peak
8	2385.620	60.62	-14.15	46.47	54.00	-7.53	AVG
9	2387.710	74.26	-14.13	60.13	74.00	-13.87	peak
10	2387.710	61.76	-14.13	47.63	54.00	-6.37	AVG
11	2390.000	74.68	-14.12	60.56	74.00	-13.44	peak
12	2390.000	62.21	-14.12	48.09	54.00	-5.91	AVG
13	2430.650	126.47	-13.93	112.54	--	--	peak
14	2483.500	70.60	-13.68	56.92	74.00	-17.08	peak
15	2483.500	62.23	-13.68	48.55	54.00	-5.45	AVG
16	2486.320	73.05	-13.66	59.39	74.00	-14.61	peak
17	2486.320	61.41	-13.66	47.75	54.00	-6.25	AVG
18	2492.590	71.25	-13.63	57.62	74.00	-16.38	peak
19	2492.590	59.76	-13.63	46.13	54.00	-7.87	AVG
20	2496.770	69.67	-13.61	56.06	74.00	-17.94	peak
21	2496.770	58.66	-13.61	45.05	54.00	-8.95	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		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2313.800	69.78	-14.50	55.28	74.00	-18.72	peak
2	2313.800	57.19	-14.50	42.69	54.00	-11.31	AVG
3	2339.640	69.50	-14.38	55.12	74.00	-18.88	peak
4	2339.640	56.88	-14.38	42.50	54.00	-11.50	AVG
5	2355.980	72.49	-14.30	58.19	74.00	-15.81	peak
6	2355.980	57.01	-14.30	42.71	54.00	-11.29	AVG
7	2366.810	73.63	-14.24	59.39	74.00	-14.61	peak
8	2366.810	57.32	-14.24	43.08	54.00	-10.92	AVG
9	2376.880	74.76	-14.19	60.57	74.00	-13.43	peak
10	2376.880	58.62	-14.19	44.43	54.00	-9.57	AVG
11	2380.300	77.12	-14.18	62.94	74.00	-11.06	peak
12	2380.300	59.72	-14.18	45.54	54.00	-8.46	AVG
13	2382.390	77.68	-14.16	63.52	74.00	-10.48	peak
14	2382.390	59.95	-14.16	45.79	54.00	-8.21	AVG
15	2385.240	79.39	-14.15	65.24	74.00	-8.76	peak
16	2385.240	62.72	-14.15	48.57	54.00	-5.43	AVG
17	2390.000	79.27	-14.12	65.15	74.00	-8.85	peak
18	2390.000	63.92	-14.12	49.80	54.00	-4.20	AVG
19	2439.580	126.51	-13.89	112.62	--	--	peak
20	2483.500	79.54	-13.68	65.86	74.00	-8.14	peak
21	2483.500	65.11	-13.68	51.43	54.00	-2.57	AVG
22	2486.320	79.95	-13.66	66.29	74.00	-7.71	peak
23	2486.320	65.02	-13.66	51.36	54.00	-2.64	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		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2490.120	80.15	-13.64	66.51	74.00	-7.49	peak
25	2490.120	64.54	-13.64	50.90	54.00	-3.10	AVG
26	2491.260	77.05	-13.64	63.41	74.00	-10.59	peak
27	2491.260	63.74	-13.64	50.10	54.00	-3.90	AVG
28	2496.580	76.48	-13.61	62.87	74.00	-11.13	peak
29	2496.580	63.40	-13.61	49.79	54.00	-4.21	AVG
30	2498.670	76.28	-13.59	62.69	74.00	-11.31	peak
31	2498.670	62.42	-13.59	48.83	54.00	-5.17	AVG

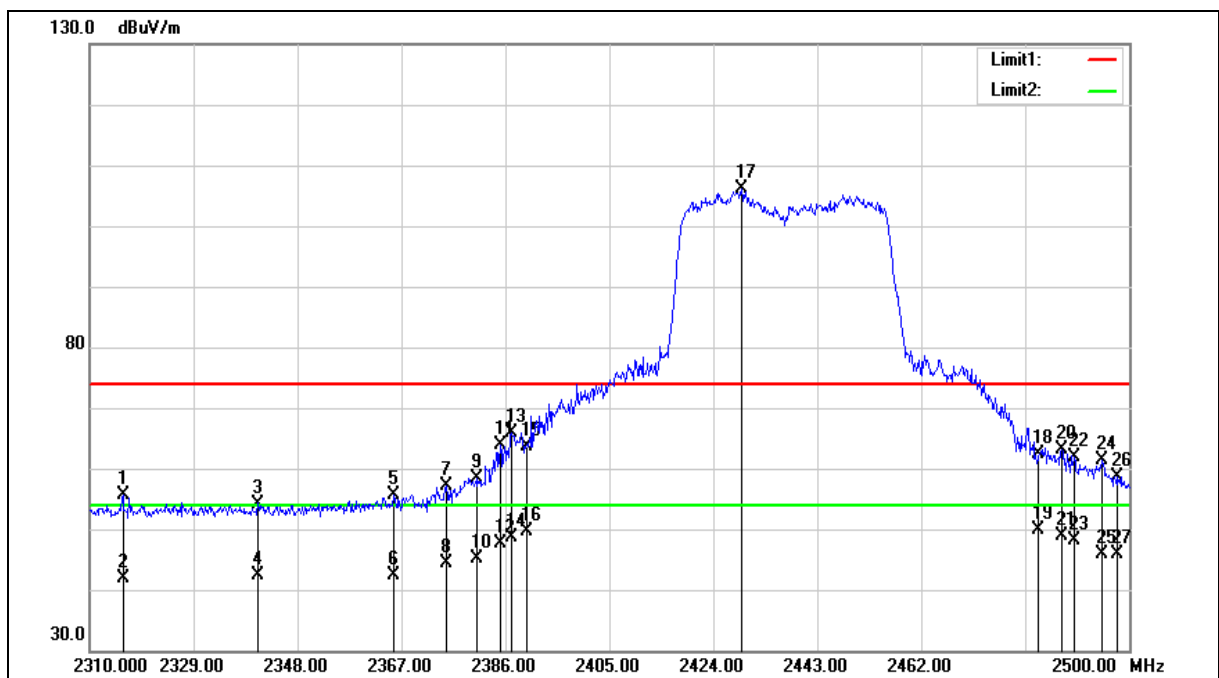
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2316.080	70.10	-14.50	55.60	74.00	-18.40	peak
2	2316.080	56.48	-14.50	41.98	54.00	-12.02	AVG
3	2340.780	68.61	-14.36	54.25	74.00	-19.75	peak
4	2340.780	56.67	-14.36	42.31	54.00	-11.69	AVG
5	2365.480	69.82	-14.25	55.57	74.00	-18.43	peak
6	2365.480	56.68	-14.25	42.43	54.00	-11.57	AVG
7	2375.170	71.22	-14.19	57.03	74.00	-16.97	peak
8	2375.170	58.49	-14.19	44.30	54.00	-9.70	AVG
9	2380.680	72.60	-14.18	58.42	74.00	-15.58	peak
10	2380.680	59.40	-14.18	45.22	54.00	-8.78	AVG
11	2385.050	77.93	-14.15	63.78	74.00	-10.22	peak
12	2385.050	61.73	-14.15	47.58	54.00	-6.42	AVG
13	2387.140	80.08	-14.13	65.95	74.00	-8.05	peak
14	2387.140	62.65	-14.13	48.52	54.00	-5.48	AVG
15	2390.000	77.70	-14.12	63.58	74.00	-10.42	peak
16	2390.000	63.72	-14.12	49.60	54.00	-4.40	AVG
17	2429.130	119.94	-13.93	106.01	--	--	peak
18	2483.500	76.01	-13.68	62.33	74.00	-11.67	peak
19	2483.500	63.63	-13.68	49.95	54.00	-4.05	AVG
20	2487.650	76.67	-13.65	63.02	74.00	-10.98	peak
21	2487.650	62.56	-13.65	48.91	54.00	-5.09	AVG
22	2489.930	75.42	-13.64	61.78	74.00	-12.22	peak
23	2489.930	61.66	-13.64	48.02	54.00	-5.98	AVG

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

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2495.060	74.99	-13.62	61.37	74.00	-12.63	peak
25	2495.060	59.56	-13.62	45.94	54.00	-8.06	AVG
26	2497.910	72.26	-13.60	58.66	74.00	-15.34	peak
27	2497.910	59.46	-13.60	45.86	54.00	-8.14	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).

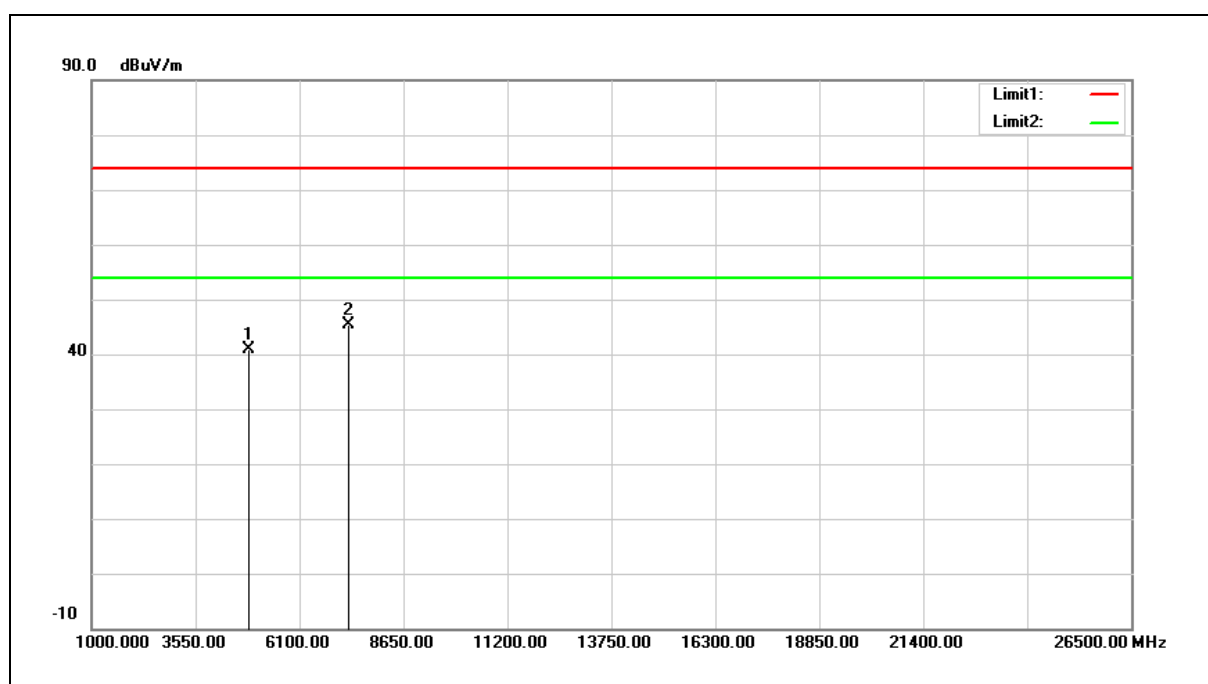
3.When the peak results are less than average limit, so not need to evaluate the average.

Beamforming on

Harmonic

Above 1 GHz

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.23	-8.37	40.86	74.00	-33.14	peak
2	7311.000	45.99	-0.66	45.33	74.00	-28.67	peak

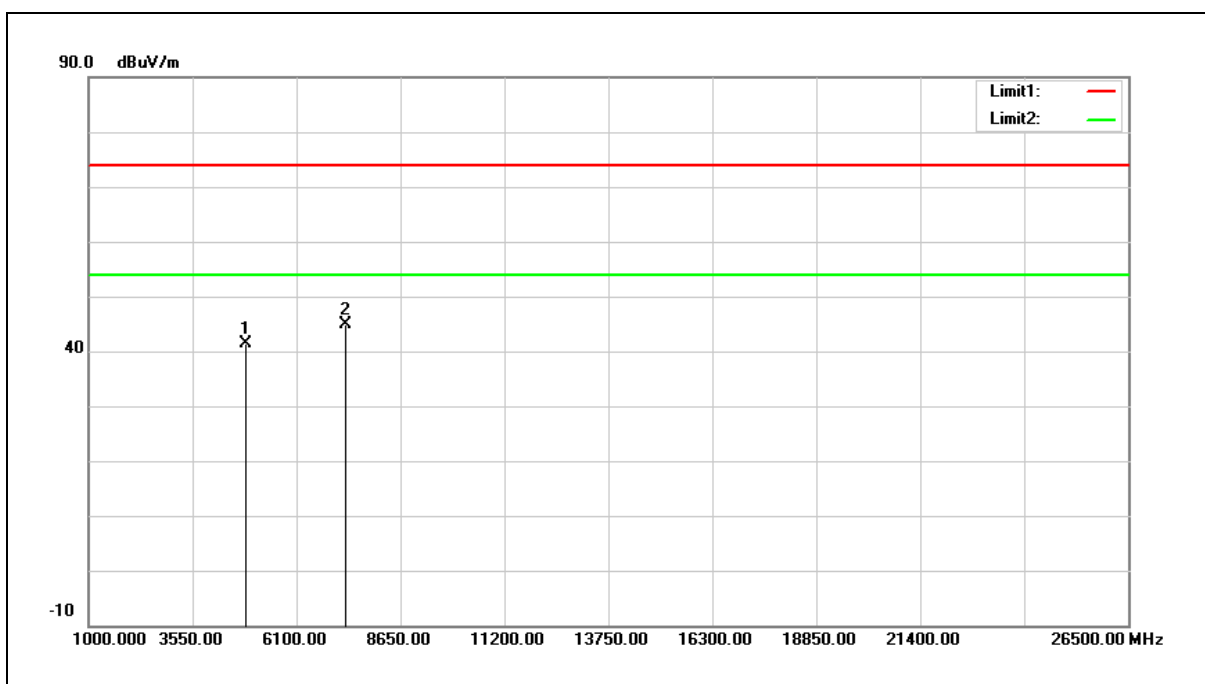
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example: $40.86 = -8.37 + 49.23$

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.70	-8.37	41.33	74.00	-32.67	peak
2	7311.000	45.57	-0.66	44.91	74.00	-29.09	peak

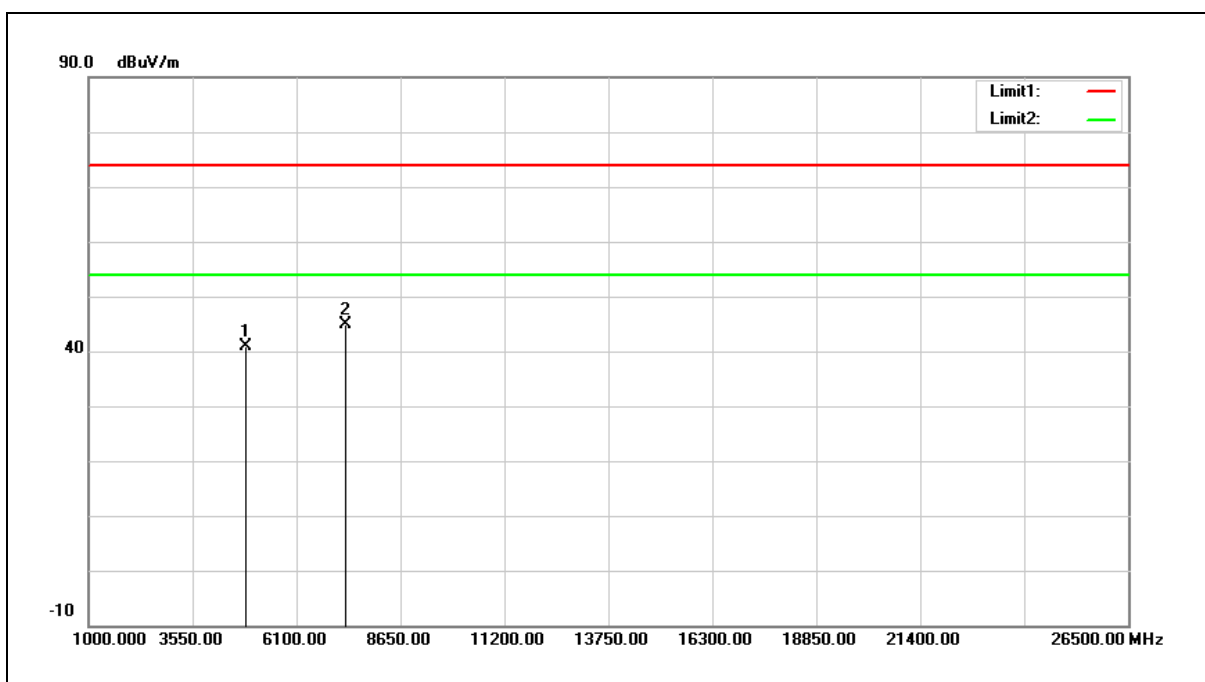
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example: $41.33 = -8.37 + 49.70$

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



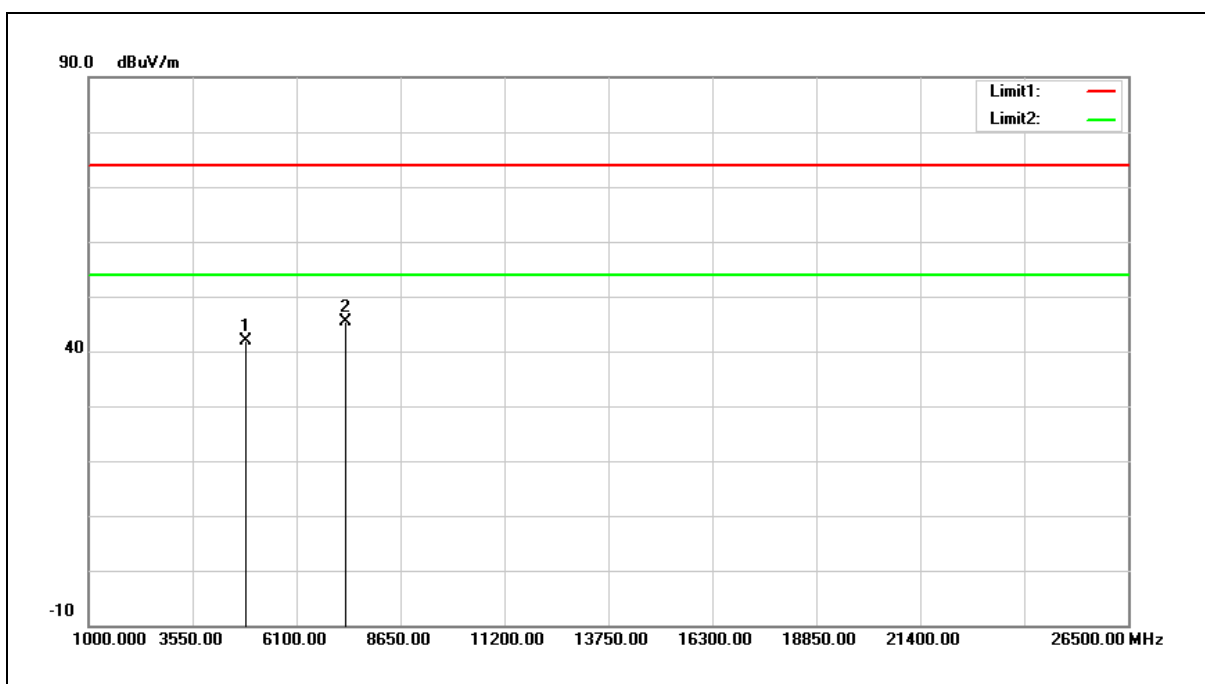
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.31	-8.37	40.94	74.00	-33.06	peak
2	7311.000	45.50	-0.66	44.84	74.00	-29.16	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



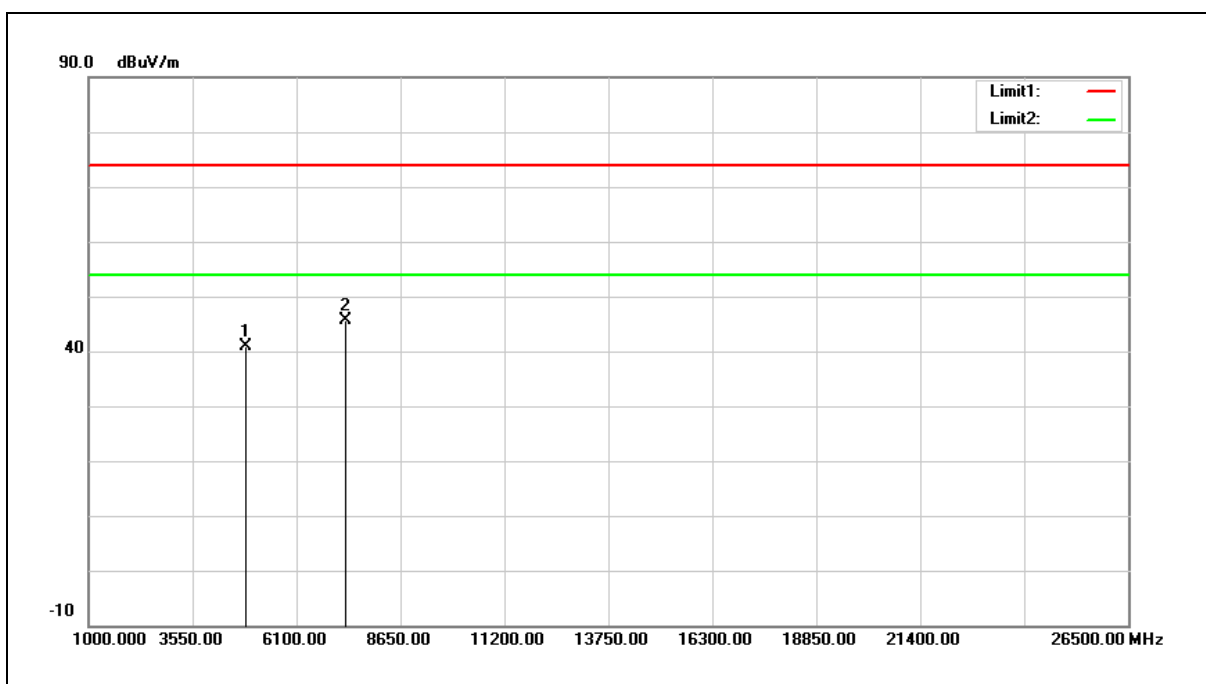
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	50.14	-8.37	41.77	74.00	-32.23	peak
2	7311.000	46.02	-0.66	45.36	74.00	-28.64	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Horizontal		



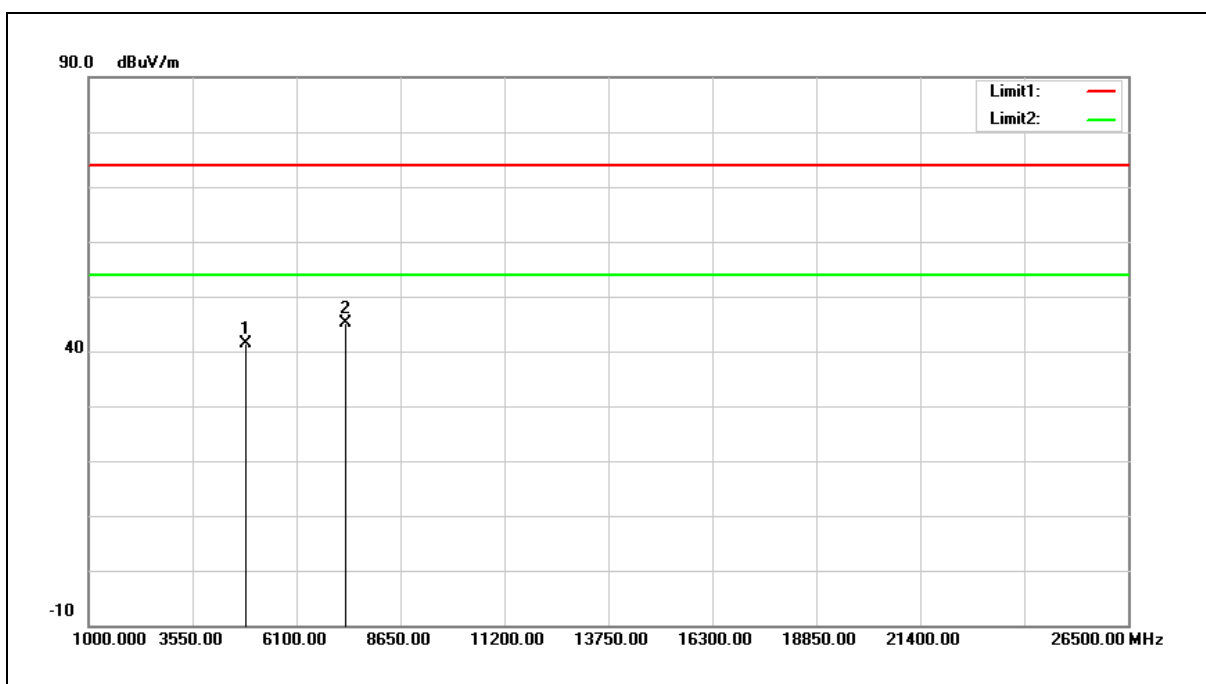
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.24	-8.37	40.87	74.00	-33.13	peak
2	7311.000	46.18	-0.66	45.52	74.00	-28.48	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.81	-8.37	41.44	74.00	-32.56	peak
2	7311.000	45.76	-0.66	45.10	74.00	-28.90	peak

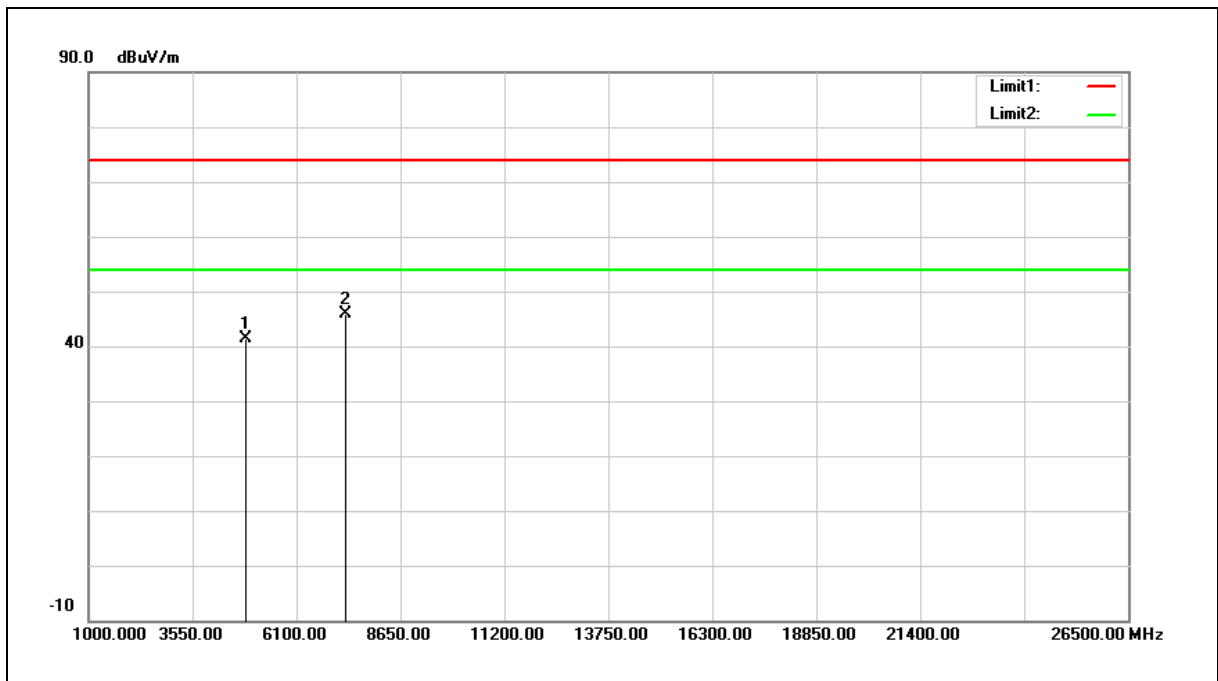
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.67	-8.37	41.30	74.00	-32.70	peak
2	7311.000	46.55	-0.66	45.89	74.00	-28.11	peak

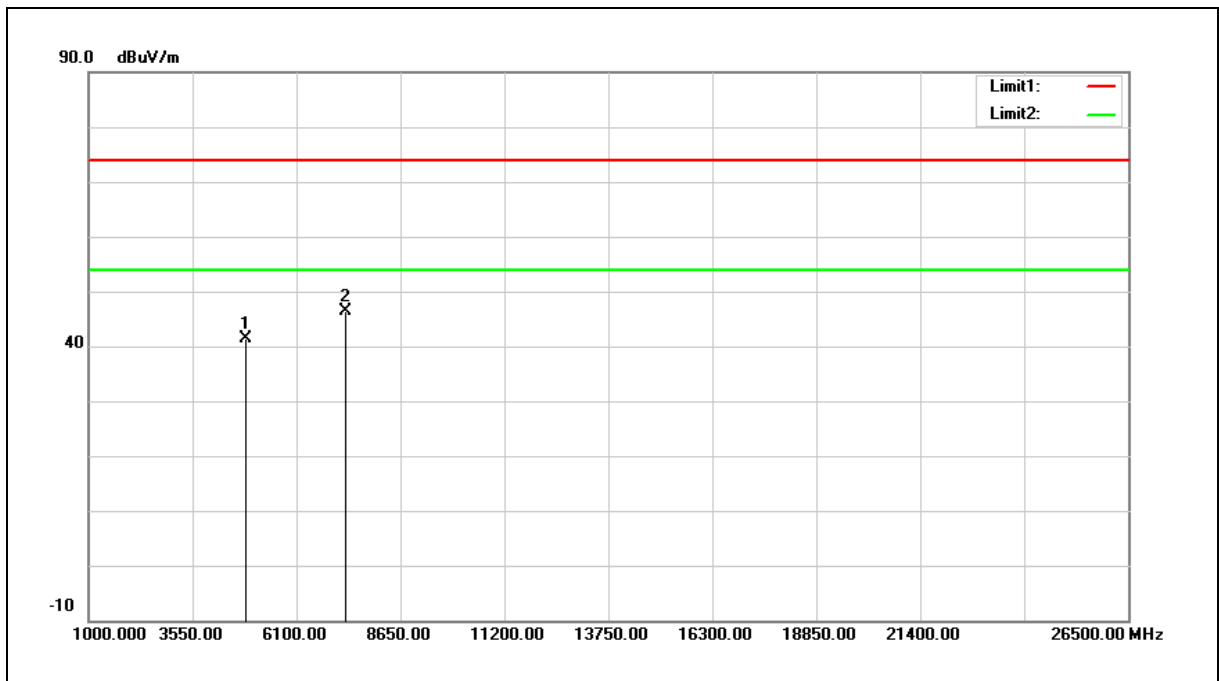
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	49.65	-8.37	41.28	74.00	-32.72	peak
2	7311.000	46.99	-0.66	46.33	74.00	-27.67	peak

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

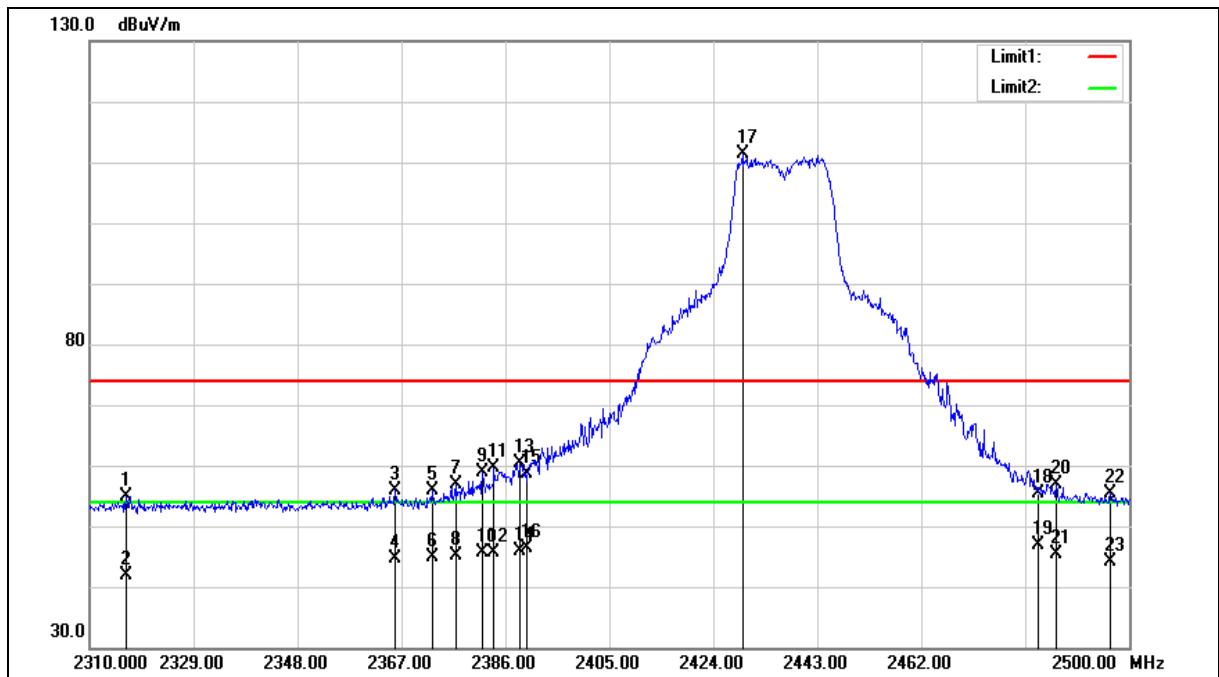
2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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



Band Edge

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





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

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2316.650	69.32	-14.49	54.83	74.00	-19.17	peak
2	2316.650	56.47	-14.49	41.98	54.00	-12.02	AVG
3	2365.860	70.03	-14.25	55.78	74.00	-18.22	peak
4	2365.860	58.92	-14.25	44.67	54.00	-9.33	AVG
5	2372.700	70.17	-14.21	55.96	74.00	-18.04	peak
6	2372.700	59.13	-14.21	44.92	54.00	-9.08	AVG
7	2376.880	71.13	-14.19	56.94	74.00	-17.06	peak
8	2376.880	59.22	-14.19	45.03	54.00	-8.97	AVG
9	2381.820	72.94	-14.16	58.78	74.00	-15.22	peak
10	2381.820	59.72	-14.16	45.56	54.00	-8.44	AVG
11	2383.910	73.67	-14.15	59.52	74.00	-14.48	peak
12	2383.910	59.84	-14.15	45.69	54.00	-8.31	AVG
13	2388.660	74.60	-14.13	60.47	74.00	-13.53	peak
14	2388.660	60.04	-14.13	45.91	54.00	-8.09	AVG
15	2390.000	72.79	-14.12	58.67	74.00	-15.33	peak
16	2390.000	60.47	-14.12	46.35	54.00	-7.65	AVG
17	2429.320	125.19	-13.93	111.26	--	--	peak
18	2483.500	69.07	-13.68	55.39	74.00	-18.61	peak
19	2483.500	60.49	-13.68	46.81	54.00	-7.19	AVG
20	2486.700	70.55	-13.66	56.89	74.00	-17.11	peak
21	2486.700	59.06	-13.66	45.40	54.00	-8.60	AVG
22	2496.580	68.92	-13.61	55.31	74.00	-18.69	peak
23	2496.580	57.74	-13.61	44.13	54.00	-9.87	AVG

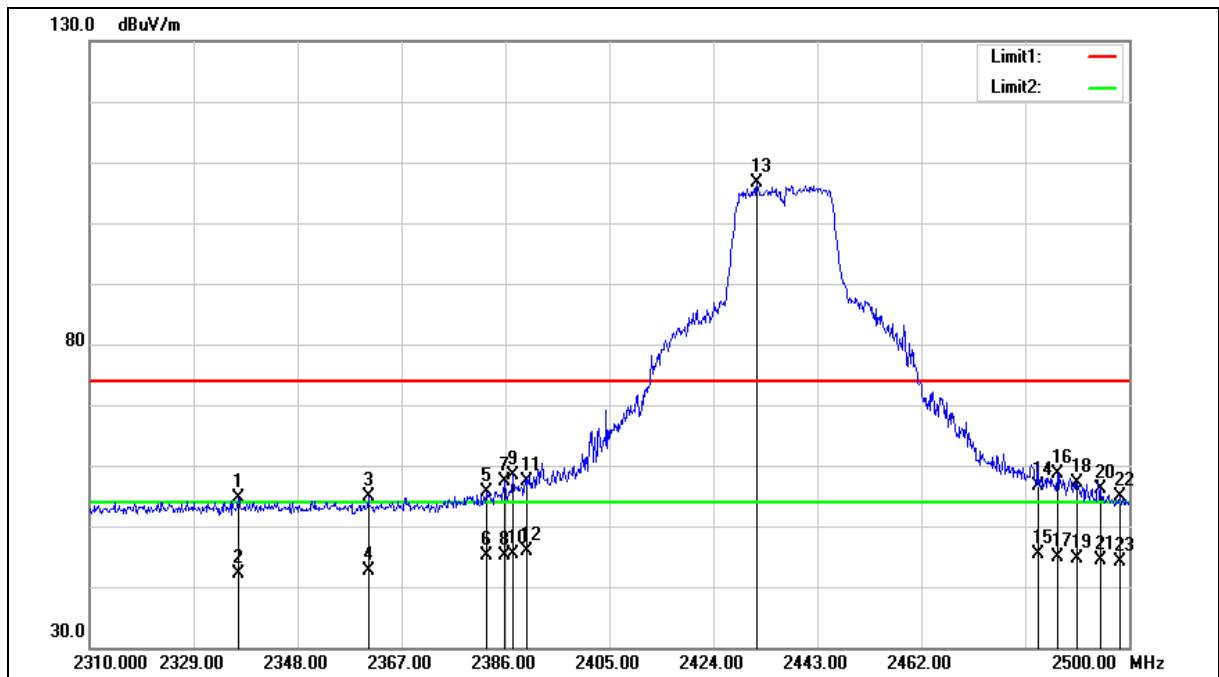
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2337.170	68.93	-14.38	54.55	74.00	-19.45	peak
2	2337.170	56.50	-14.38	42.12	54.00	-11.88	AVG
3	2360.920	69.03	-14.27	54.76	74.00	-19.24	peak
4	2360.920	56.82	-14.27	42.55	54.00	-11.45	AVG
5	2382.580	69.80	-14.16	55.64	74.00	-18.36	peak
6	2382.580	59.17	-14.16	45.01	54.00	-8.99	AVG
7	2385.810	71.60	-14.15	57.45	74.00	-16.55	peak
8	2385.810	59.28	-14.15	45.13	54.00	-8.87	AVG
9	2387.330	72.45	-14.13	58.32	74.00	-15.68	peak
10	2387.330	59.55	-14.13	45.42	54.00	-8.58	AVG
11	2390.000	71.50	-14.12	57.38	74.00	-16.62	peak
12	2390.000	59.92	-14.12	45.80	54.00	-8.20	AVG
13	2431.980	120.64	-13.92	106.72	--	--	peak
14	2483.500	70.30	-13.68	56.62	74.00	-17.38	peak
15	2483.500	59.00	-13.68	45.32	54.00	-8.68	AVG
16	2486.890	72.38	-13.65	58.73	74.00	-15.27	peak
17	2486.890	58.44	-13.65	44.79	54.00	-9.21	AVG
18	2490.500	70.87	-13.64	57.23	74.00	-16.77	peak
19	2490.500	58.30	-13.64	44.66	54.00	-9.34	AVG
20	2494.680	69.63	-13.62	56.01	74.00	-17.99	peak
21	2494.680	57.94	-13.62	44.32	54.00	-9.68	AVG
22	2498.290	68.38	-13.60	54.78	74.00	-19.22	peak
23	2498.290	57.80	-13.60	44.20	54.00	-9.80	AVG

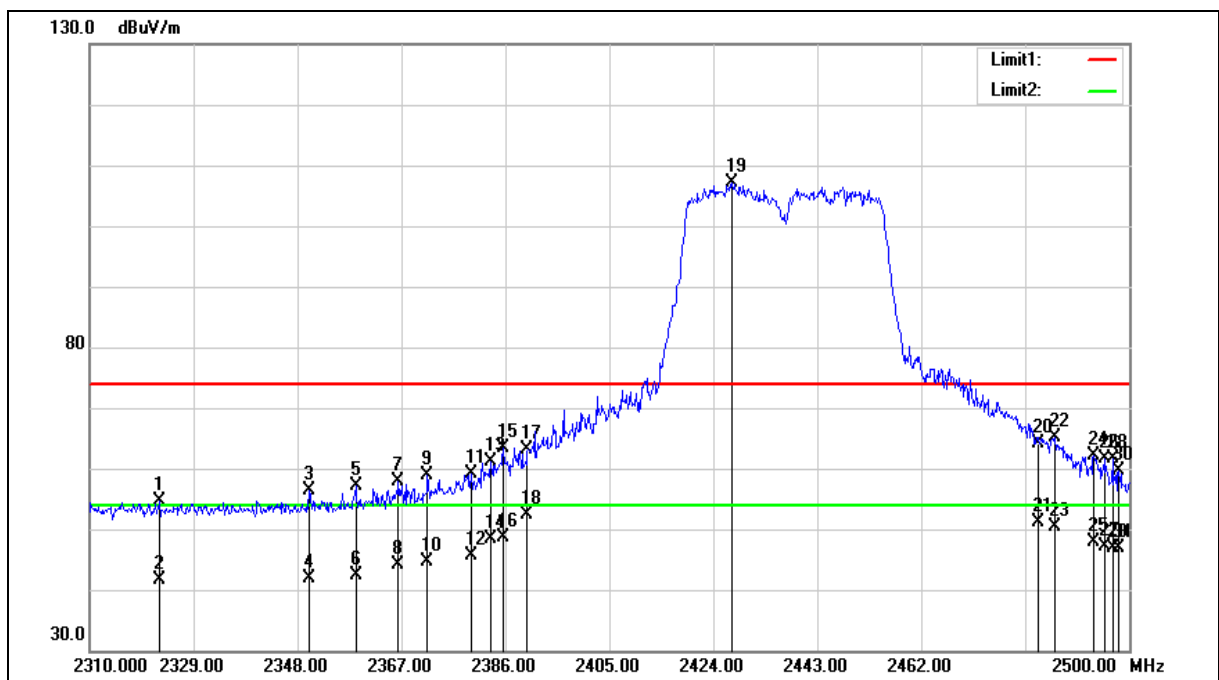
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2322.730	69.01	-14.45	54.56	74.00	-19.44	peak
2	2322.730	56.19	-14.45	41.74	54.00	-12.26	AVG
3	2350.090	70.62	-14.32	56.30	74.00	-17.70	peak
4	2350.090	56.28	-14.32	41.96	54.00	-12.04	AVG
5	2358.640	71.45	-14.28	57.17	74.00	-16.83	peak
6	2358.640	56.58	-14.28	42.30	54.00	-11.70	AVG
7	2366.430	72.12	-14.24	57.88	74.00	-16.12	peak
8	2366.430	58.49	-14.24	44.25	54.00	-9.75	AVG
9	2371.750	73.12	-14.22	58.90	74.00	-15.10	peak
10	2371.750	58.84	-14.22	44.62	54.00	-9.38	AVG
11	2379.730	73.26	-14.18	59.08	74.00	-14.92	peak
12	2379.730	59.69	-14.18	45.51	54.00	-8.49	AVG
13	2383.340	75.26	-14.16	61.10	74.00	-12.90	peak
14	2383.340	62.45	-14.16	48.29	54.00	-5.71	AVG
15	2385.620	77.62	-14.15	63.47	74.00	-10.53	peak
16	2385.620	62.77	-14.15	48.62	54.00	-5.38	AVG
17	2390.000	77.15	-14.12	63.03	74.00	-10.97	peak
18	2390.000	66.39	-14.12	52.27	54.00	-1.73	AVG
19	2427.420	121.05	-13.94	107.11	--	--	peak
20	2483.500	77.75	-13.68	64.07	74.00	-9.93	peak
21	2483.500	64.88	-13.68	51.20	54.00	-2.80	AVG
22	2486.320	78.89	-13.66	65.23	74.00	-8.77	peak
23	2486.320	64.08	-13.66	50.42	54.00	-3.58	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		

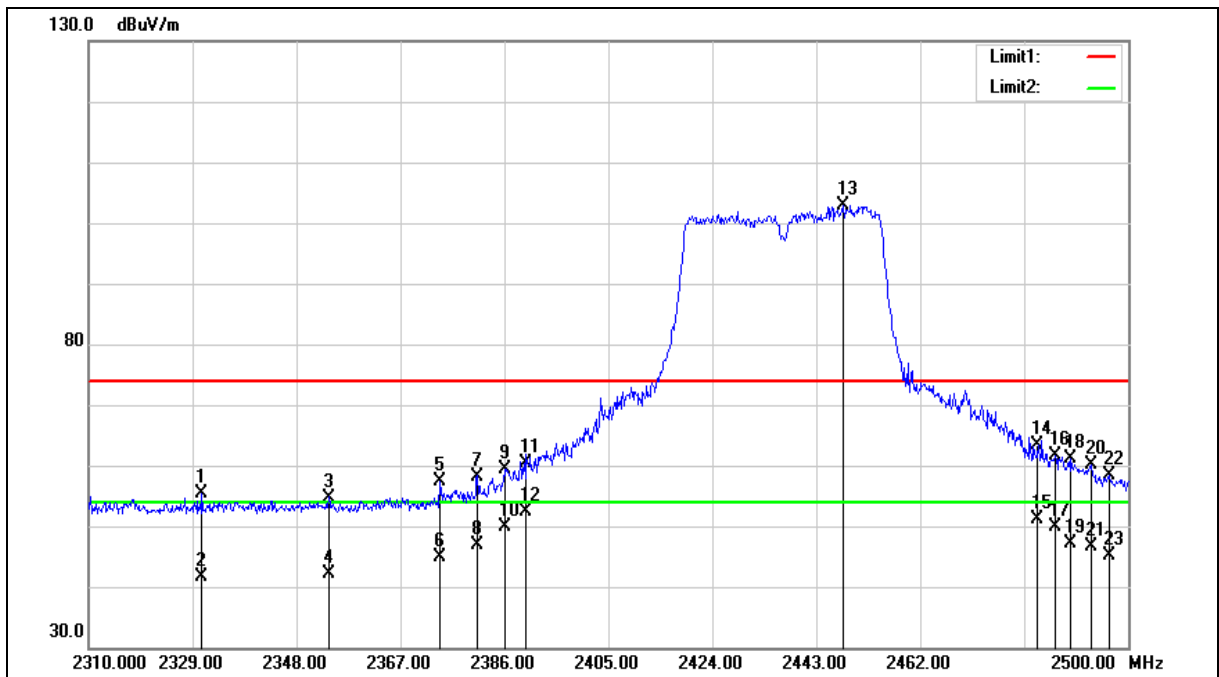
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2493.540	75.80	-13.62	62.18	74.00	-11.82	peak
25	2493.540	61.48	-13.62	47.86	54.00	-6.14	AVG
26	2495.630	75.28	-13.61	61.67	74.00	-12.33	peak
27	2495.630	60.63	-13.61	47.02	54.00	-6.98	AVG
28	2496.960	75.15	-13.61	61.54	74.00	-12.46	peak
29	2496.960	60.60	-13.61	46.99	54.00	-7.01	AVG
30	2498.100	73.17	-13.60	59.57	74.00	-14.43	peak
31	2498.100	60.45	-13.60	46.85	54.00	-7.15	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		

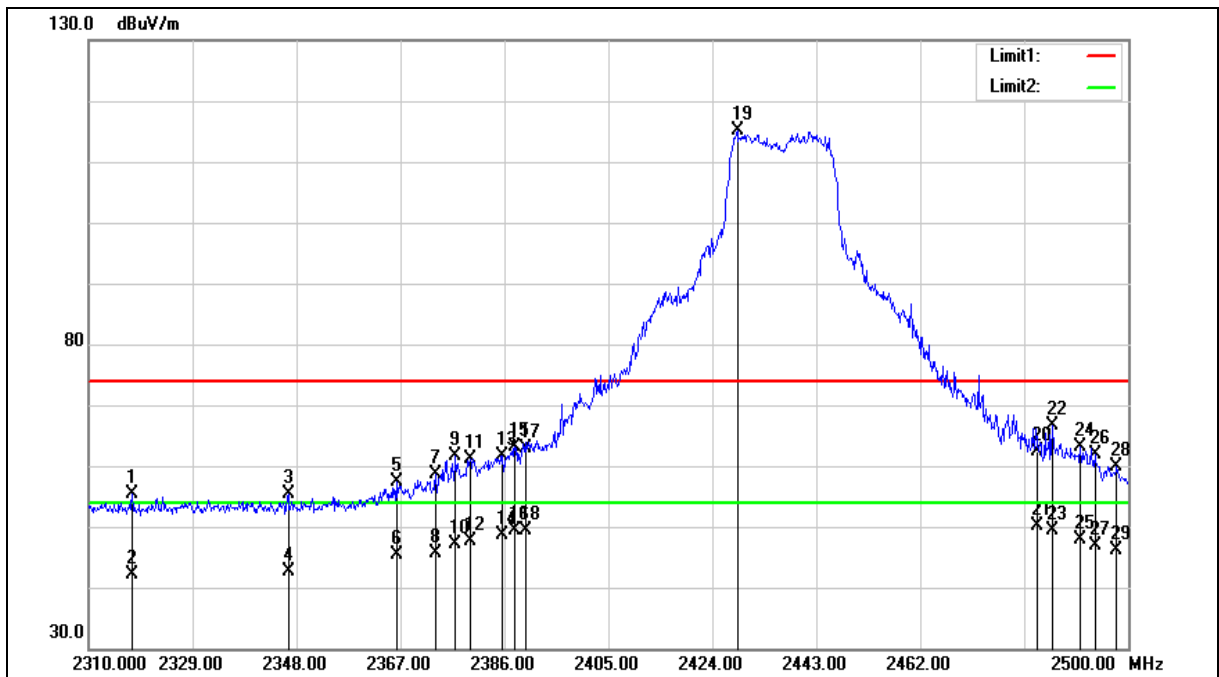
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2330.710	69.70	-14.42	55.28	74.00	-18.72	peak
2	2330.710	56.02	-14.42	41.60	54.00	-12.40	AVG
3	2353.890	69.05	-14.30	54.75	74.00	-19.25	peak
4	2353.890	56.42	-14.30	42.12	54.00	-11.88	AVG
5	2374.220	71.50	-14.21	57.29	74.00	-16.71	peak
6	2374.220	59.07	-14.21	44.86	54.00	-9.14	AVG
7	2381.060	72.41	-14.16	58.25	74.00	-15.75	peak
8	2381.060	61.09	-14.16	46.93	54.00	-7.07	AVG
9	2386.000	73.50	-14.15	59.35	74.00	-14.65	peak
10	2386.000	64.11	-14.15	49.96	54.00	-4.04	AVG
11	2390.000	74.55	-14.12	60.43	74.00	-13.57	peak
12	2390.000	66.49	-14.12	52.37	54.00	-1.63	AVG
13	2447.940	116.81	-13.85	102.96	--	--	peak
14	2483.500	76.97	-13.68	63.29	74.00	-10.71	peak
15	2483.500	64.71	-13.68	51.03	54.00	-2.97	AVG
16	2486.700	75.22	-13.66	61.56	74.00	-12.44	peak
17	2486.700	63.62	-13.66	49.96	54.00	-4.04	AVG
18	2489.550	74.73	-13.65	61.08	74.00	-12.92	peak
19	2489.550	60.75	-13.65	47.10	54.00	-6.90	AVG
20	2493.160	73.71	-13.62	60.09	74.00	-13.91	peak
21	2493.160	60.19	-13.62	46.57	54.00	-7.43	AVG
22	2496.580	71.89	-13.61	58.28	74.00	-15.72	peak
23	2496.580	58.76	-13.61	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		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2317.980	69.83	-14.48	55.35	74.00	-18.65	peak
2	2317.980	56.73	-14.48	42.25	54.00	-11.75	AVG
3	2346.480	69.66	-14.33	55.33	74.00	-18.67	peak
4	2346.480	56.93	-14.33	42.60	54.00	-11.40	AVG
5	2366.240	71.69	-14.24	57.45	74.00	-16.55	peak
6	2366.240	59.73	-14.24	45.49	54.00	-8.51	AVG
7	2373.460	72.93	-14.21	58.72	74.00	-15.28	peak
8	2373.460	59.78	-14.21	45.57	54.00	-8.43	AVG
9	2377.070	75.71	-14.19	61.52	74.00	-12.48	peak
10	2377.070	61.29	-14.19	47.10	54.00	-6.90	AVG
11	2379.730	75.42	-14.18	61.24	74.00	-12.76	peak
12	2379.730	61.76	-14.18	47.58	54.00	-6.42	AVG
13	2385.620	75.85	-14.15	61.70	74.00	-12.30	peak
14	2385.620	62.76	-14.15	48.61	54.00	-5.39	AVG
15	2387.900	77.16	-14.13	63.03	74.00	-10.97	peak
16	2387.900	63.54	-14.13	49.41	54.00	-4.59	AVG
17	2390.000	76.94	-14.12	62.82	74.00	-11.18	peak
18	2390.000	63.40	-14.12	49.28	54.00	-4.72	AVG
19	2428.560	129.04	-13.93	115.11	--	--	peak
20	2483.500	76.12	-13.68	62.44	74.00	-11.56	peak
21	2483.500	63.80	-13.68	50.12	54.00	-3.88	AVG
22	2486.130	80.34	-13.66	66.68	74.00	-7.32	peak
23	2486.130	63.06	-13.66	49.40	54.00	-4.60	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		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Horizontal		

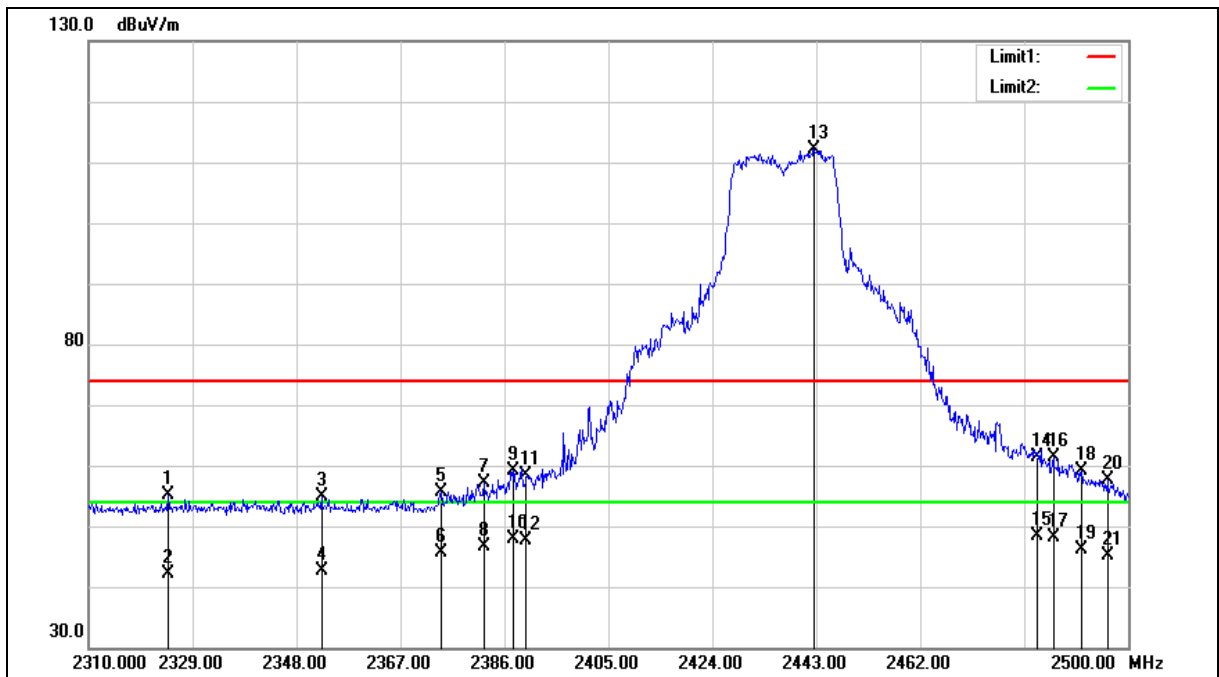
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2491.260	76.72	-13.64	63.08	74.00	-10.92	peak
25	2491.260	61.63	-13.64	47.99	54.00	-6.01	AVG
26	2493.920	75.57	-13.62	61.95	74.00	-12.05	peak
27	2493.920	60.39	-13.62	46.77	54.00	-7.23	AVG
28	2497.910	73.48	-13.60	59.88	74.00	-14.12	peak
29	2497.910	59.64	-13.60	46.04	54.00	-7.96	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 8		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2324.630	69.46	-14.45	55.01	74.00	-18.99	peak
2	2324.630	56.64	-14.45	42.19	54.00	-11.81	AVG
3	2352.560	69.12	-14.30	54.82	74.00	-19.18	peak
4	2352.560	56.90	-14.30	42.60	54.00	-11.40	AVG
5	2374.410	69.78	-14.21	55.57	74.00	-18.43	peak
6	2374.410	59.78	-14.21	45.57	54.00	-8.43	AVG
7	2382.200	71.21	-14.16	57.05	74.00	-16.95	peak
8	2382.200	60.86	-14.16	46.70	54.00	-7.30	AVG
9	2387.710	73.30	-14.13	59.17	74.00	-14.83	peak
10	2387.710	61.95	-14.13	47.82	54.00	-6.18	AVG
11	2390.000	72.57	-14.12	58.45	74.00	-15.55	peak
12	2390.000	61.66	-14.12	47.54	54.00	-6.46	AVG
13	2442.620	125.90	-13.88	112.02	--	--	peak
14	2483.500	75.08	-13.68	61.40	74.00	-12.60	peak
15	2483.500	61.99	-13.68	48.31	54.00	-5.69	AVG
16	2486.320	75.06	-13.66	61.40	74.00	-12.60	peak
17	2486.320	61.68	-13.66	48.02	54.00	-5.98	AVG
18	2491.450	72.78	-13.63	59.15	74.00	-14.85	peak
19	2491.450	59.70	-13.63	46.07	54.00	-7.93	AVG
20	2496.200	71.12	-13.61	57.51	74.00	-16.49	peak
21	2496.200	58.73	-13.61	45.12	54.00	-8.88	AVG

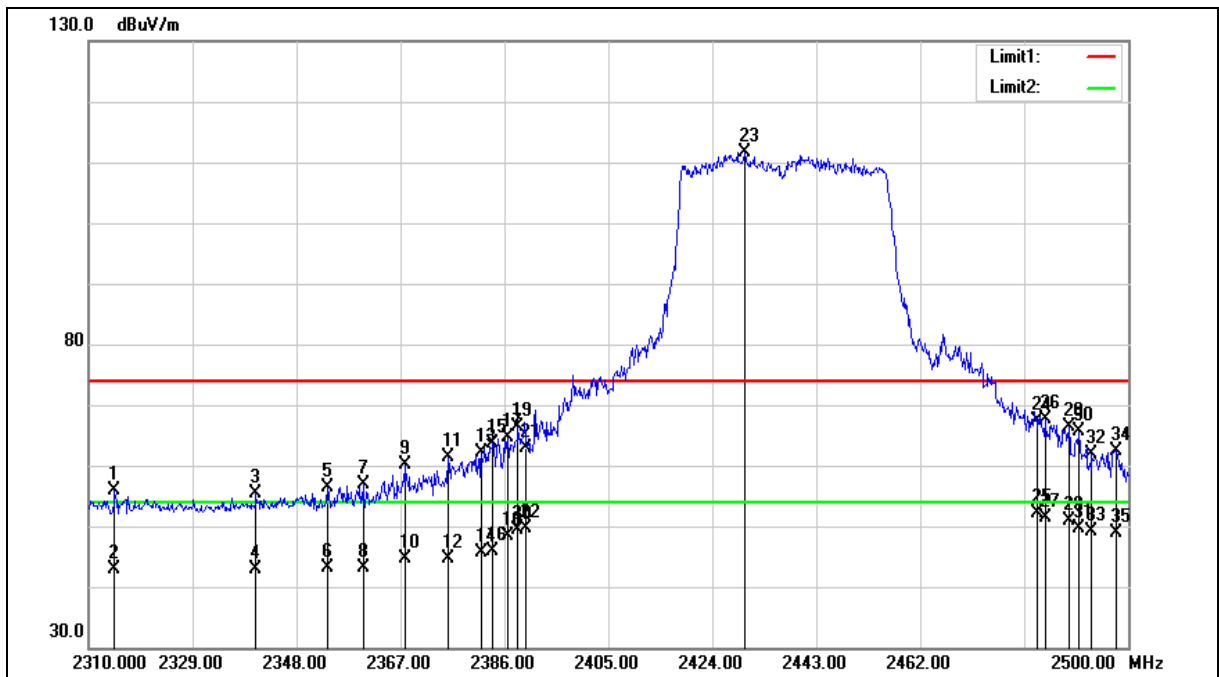
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2314.750	70.49	-14.50	55.99	74.00	-18.01	peak
2	2314.750	57.38	-14.50	42.88	54.00	-11.12	AVG
3	2340.590	69.79	-14.36	55.43	74.00	-18.57	peak
4	2340.590	57.18	-14.36	42.82	54.00	-11.18	AVG
5	2353.700	70.70	-14.30	56.40	74.00	-17.60	peak
6	2353.700	57.40	-14.30	43.10	54.00	-10.90	AVG
7	2360.160	71.20	-14.28	56.92	74.00	-17.08	peak
8	2360.160	57.50	-14.28	43.22	54.00	-10.78	AVG
9	2367.760	74.45	-14.24	60.21	74.00	-13.79	peak
10	2367.760	58.78	-14.24	44.54	54.00	-9.46	AVG
11	2375.740	75.63	-14.19	61.44	74.00	-12.56	peak
12	2375.740	58.85	-14.19	44.66	54.00	-9.34	AVG
13	2381.820	76.38	-14.16	62.22	74.00	-11.78	peak
14	2381.820	59.70	-14.16	45.54	54.00	-8.46	AVG
15	2383.910	77.66	-14.15	63.51	74.00	-10.49	peak
16	2383.910	59.94	-14.15	45.79	54.00	-8.21	AVG
17	2386.570	78.76	-14.15	64.61	74.00	-9.39	peak
18	2386.570	62.47	-14.15	48.32	54.00	-5.68	AVG
19	2388.470	80.45	-14.13	66.32	74.00	-7.68	peak
20	2388.470	63.41	-14.13	49.28	54.00	-4.72	AVG
21	2390.000	77.06	-14.12	62.94	74.00	-11.06	peak
22	2390.000	63.82	-14.12	49.70	54.00	-4.30	AVG
23	2429.890	125.57	-13.93	111.64	--	--	peak

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

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2483.500	81.02	-13.68	67.34	74.00	-6.66	peak
25	2483.500	65.70	-13.68	52.02	54.00	-1.98	AVG
26	2484.800	81.32	-13.67	67.65	74.00	-6.35	peak
27	2484.800	65.07	-13.67	51.40	54.00	-2.60	AVG
28	2489.170	79.99	-13.65	66.34	74.00	-7.66	peak
29	2489.170	64.57	-13.65	50.92	54.00	-3.08	AVG
30	2491.070	79.25	-13.64	65.61	74.00	-8.39	peak
31	2491.070	63.28	-13.64	49.64	54.00	-4.36	AVG
32	2493.350	75.58	-13.62	61.96	74.00	-12.04	peak
33	2493.350	62.82	-13.62	49.20	54.00	-4.80	AVG
34	2497.720	75.91	-13.60	62.31	74.00	-11.69	peak
35	2497.720	62.36	-13.60	48.76	54.00	-5.24	AVG

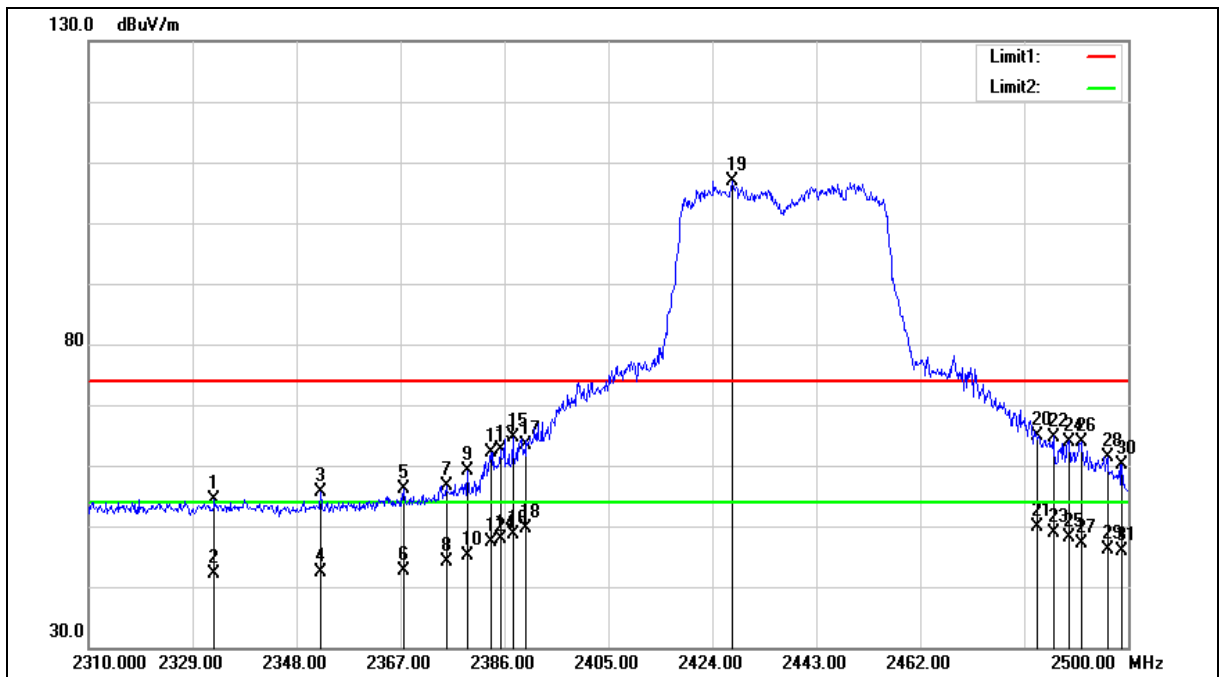
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2332.990	68.71	-14.41	54.30	74.00	-19.70	peak
2	2332.990	56.42	-14.41	42.01	54.00	-11.99	AVG
3	2352.370	69.91	-14.30	55.61	74.00	-18.39	peak
4	2352.370	56.74	-14.30	42.44	54.00	-11.56	AVG
5	2367.570	70.34	-14.24	56.10	74.00	-17.90	peak
6	2367.570	56.94	-14.24	42.70	54.00	-11.30	AVG
7	2375.360	70.79	-14.19	56.60	74.00	-17.40	peak
8	2375.360	58.42	-14.19	44.23	54.00	-9.77	AVG
9	2379.160	73.27	-14.18	59.09	74.00	-14.91	peak
10	2379.160	59.36	-14.18	45.18	54.00	-8.82	AVG
11	2383.530	76.38	-14.16	62.22	74.00	-11.78	peak
12	2383.530	61.50	-14.16	47.34	54.00	-6.66	AVG
13	2385.240	76.73	-14.15	62.58	74.00	-11.42	peak
14	2385.240	62.06	-14.15	47.91	54.00	-6.09	AVG
15	2387.520	78.64	-14.13	64.51	74.00	-9.49	peak
16	2387.520	62.73	-14.13	48.60	54.00	-5.40	AVG
17	2390.000	77.52	-14.12	63.40	74.00	-10.60	peak
18	2390.000	63.64	-14.12	49.52	54.00	-4.48	AVG
19	2427.610	120.84	-13.94	106.90	--	--	peak
20	2483.500	78.56	-13.68	64.88	74.00	-9.12	peak
21	2483.500	63.64	-13.68	49.96	54.00	-4.04	AVG
22	2486.320	78.41	-13.66	64.75	74.00	-9.25	peak
23	2486.320	62.63	-13.66	48.97	54.00	-5.03	AVG

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

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2437 MHz		
Mode:	Mode 9		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	2489.170	77.65	-13.65	64.00	74.00	-10.00	peak
25	2489.170	61.73	-13.65	48.08	54.00	-5.92	AVG
26	2491.450	77.40	-13.63	63.77	74.00	-10.23	peak
27	2491.450	60.65	-13.63	47.02	54.00	-6.98	AVG
28	2496.200	75.05	-13.61	61.44	74.00	-12.56	peak
29	2496.200	59.72	-13.61	46.11	54.00	-7.89	AVG
30	2498.860	73.78	-13.59	60.19	74.00	-13.81	peak
31	2498.860	59.48	-13.59	45.89	54.00	-8.11	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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