

RF Test Report

Applicant : Ring LLC
Product Type : Door View Cam
Trade Name : Ring
Model Number : G63R9A
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Receive Date : Apr. 08, 2019
Test Period : Apr. 17 ~ Apr. 22, 2019
Issue Date : May 03, 2019

Issue by

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



Taiwan Accreditation Foundation accreditation number: 1330

Test Firm MRA designation number: TW0010

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	May 03, 2019	Initial Issue	Nina Lin

Verification of Compliance

Issued Date: May 03, 2019

Applicant : Ring LLC

Product Type : Door View Cam

Trade Name : Ring

Model Number : G63R9A

FCC ID : 2AEUPBHADV001

EUT Rated Voltage : DC 3.6 V or DC 3.65 V, 6040 mAh

Test Voltage : DC 3.65 V

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

Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.

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

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

Approved By : Fly Lu Reviewed By : Eric Ou Yang
(Manager) (Fly Lu) (Testing Engineer) (Eric Ou Yang)



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1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
FCC			
15.207	AC Power Conducted Emission	N/A	The device power does not from AC source
15.247(d)	Transmitter Radiated Emissions	PASS	----
15.247(b)(3)	Max. Output Power	PASS	----
15.247(a)(2)	6 dB RF Bandwidth	PASS	----
15.247(e)	Maximum Power Spectral Density	PASS	----
15.247(d)	Out of Band Conducted Spurious Emission	PASS	----
15.203	Antenna Requirement	PASS	----

The test results of this report relate only to the tested sample(s) identified in this report.

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



1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	9 kHz ~ 150 kHz	2.7
	150 kHz ~ 30 MHz	2.7
Radiated Emission	9 kHz ~ 30 MHz	1.7
	30 MHz ~ 1000 MHz	5.7
	1000 MHz ~ 18000 MHz	5.5
	18000 MHz ~ 26500 MHz	4.8
	26500 MHz ~ 40000 MHz	4.8
Conducted Output Power	+0.27 dB / -0.28 dB	
RF Bandwidth	4.96 %	
Power Spectral Density	+0.71 dB / -0.77 dB	



2 EUT Description

Applicant	Ring LLC 1523 26th Street, Santa Monica CA 90404, United States			
Manufacturer	Ring Inc. 1523 26th Street, Santa Monica CA 90404, United States			
Product Type	Door View Cam			
Trade Name	Ring			
Model Number	G63R9A			
FCC ID	2AEUPBHADV001			
Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate 400 / 800 GI (ns)
IEEE 802.11b	2412 ~ 2462	DSSS	20 MHz	Up to 11 Mbps
IEEE 802.11g	2412 ~ 2462	OFDM	20 MHz	Up to 54 Mbps
IEEE 802.11n 2.4 GHz 20 MHz	2412 ~ 2462	OFDM	20 MHz	Up to 72.2 Mbps
Antenna information	Type			Max. Gain(dBi)
	PIFA Antenna			2.78
Antenna Delivery	See section 3.1			
Operate Temp. Range	-20 ~ +50 °C			

Frequency Band	Max. RF Output Power (W)
IEEE 802.11b	0.062
IEEE 802.11g	0.096
IEEE 802.11n 2.4 GHz 20 MHz	0.096

3 Test Methodology

3.1. Mode of Operation

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

Test Mode
Mode 1: Transmit mode
Mode 2: IEEE 802.11b Continuous TX mode
Mode 3: IEEE 802.11g Continuous TX mode
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode

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.

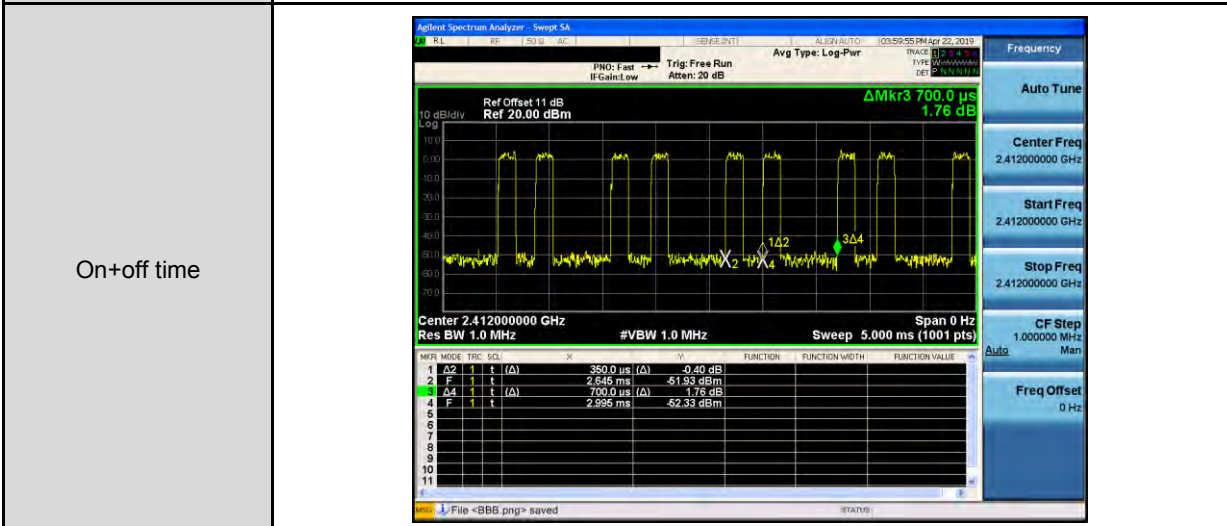
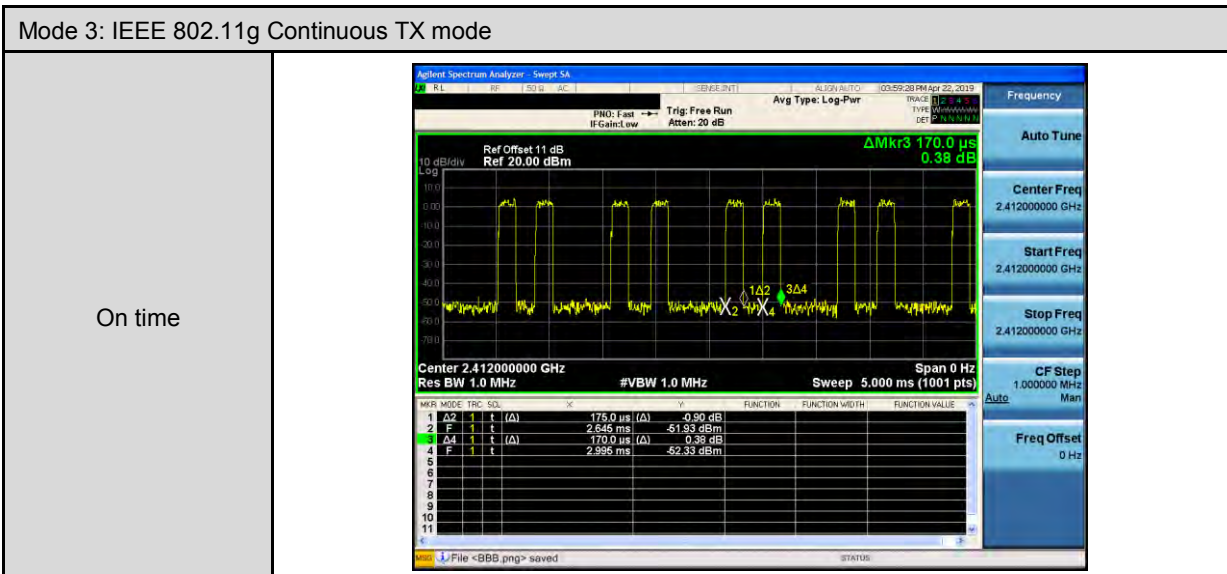
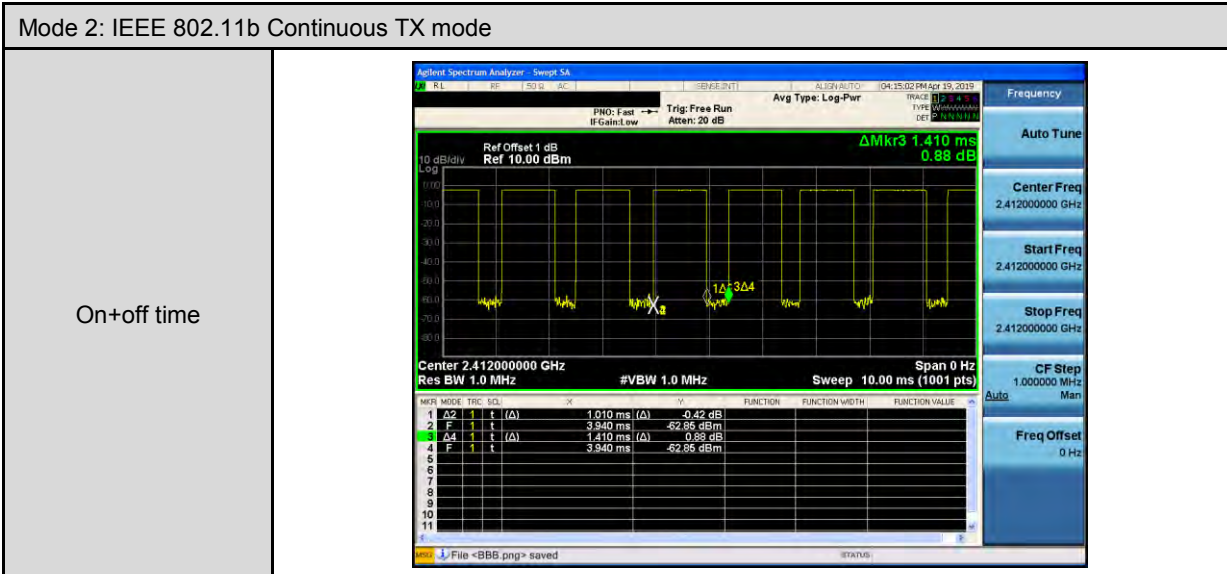
Test Mode	Antenna Delivery	Data Rate (Mbps)	Test Channel
Mode 2	1TX	1	1, 6, 11
Mode 3	1TX	6	1, 6, 11
Mode 4	1TX	6.5	1, 6, 11

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	1.010	1.410	0.716	1.449	0.990
Mode 3	2412	0.345	1.050	0.329	4.834	2.899
Mode 4	2412	0.355	1.055	0.336	4.730	2.817



Duty Cycle Graphs





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

<p>On time</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>PHO: Fast Trig: Free Run Avg Type: Log-Par</p> <p>Ref Offset 11 dB Ref 20.00 dBm $\Delta Mkr3$ 175.0 μs -0.79 dB</p> <p>Center 2.412000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 1.0 MHz Sweep 5.000 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SOL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>$\Delta 2$</td> <td>1</td> <td>t</td> <td>(Δ)</td> <td>180.0 μs</td> <td>(Δ)</td> <td>1.82 dB</td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>1</td> <td>t</td> <td>(Δ)</td> <td>2.059 ms</td> <td>(Δ)</td> <td>-53.28 dBm</td> <td></td> </tr> <tr> <td>3</td> <td>$\Delta 4$</td> <td>1</td> <td>t</td> <td>(Δ)</td> <td>175.0 μs</td> <td>(Δ)</td> <td>-0.79 dB</td> <td></td> </tr> <tr> <td>4</td> <td>F</td> <td>1</td> <td>t</td> <td>(Δ)</td> <td>2.410 ms</td> <td>(Δ)</td> <td>-53.28 dBm</td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	$\Delta 2$	1	t	(Δ)	180.0 μ s	(Δ)	1.82 dB		2	F	1	t	(Δ)	2.059 ms	(Δ)	-53.28 dBm		3	$\Delta 4$	1	t	(Δ)	175.0 μ s	(Δ)	-0.79 dB		4	F	1	t	(Δ)	2.410 ms	(Δ)	-53.28 dBm	
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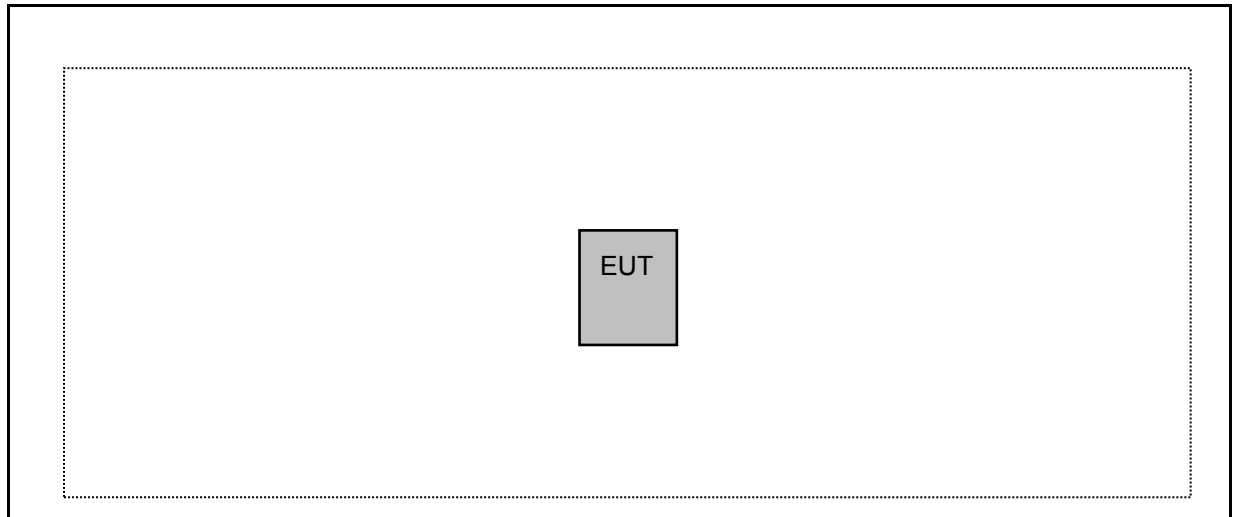
3.2. EUT Test Step

1.	Setup the EUT shown on "Configuration of Test System Details".
2.	Turn on the power of all equipment.
3.	Turn Wi-Fi function link to AP
4.	EUT run test program.

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

3.3. Configuration of Test System Details

Radiated Emission



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	---	---	---	---	---



3.4. Test Instruments

For Radiated Emissions

Test Period: Apr. 17 ~ Apr. 18, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	01/14/2019	1 year
Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02237	10/16/2018	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	01/14/2019	1 year
Broadband Antenna	Schwarzbeck	VULB9168	416	10/19/2018	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/23/2018	1 year
Horn Antenna (18~40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	08/07/2018	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	03/29/2019	1 year
RF Cable	EMCI	EMC104-N-N-6000	TE01-1	02/20/2019	1 year
Microwave Cable	EMCI	EMC104-SM-SM-13000	170814	10/30/2018	1 year
Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	02/20/2019	1 year

For Conducted

Test Period: Apr. 19 ~ Apr. 22, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Power Sensor	Anritsu	MA2411B	1126022	08/29/2018	1 year
Power Meter	Anritsu	ML2495A	1135009	08/29/2018	1 year
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/25/2018	1 year
Microwave Cable	EMCI	EMC102-SM-SM1500	001	11/21/2018	1 year
Test Site	ATL	TE05	TE05	N.C.R.	----

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

3.5. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	990

4 Measurement Procedure

4.1. Radiated Emission Measurement

■ Limit

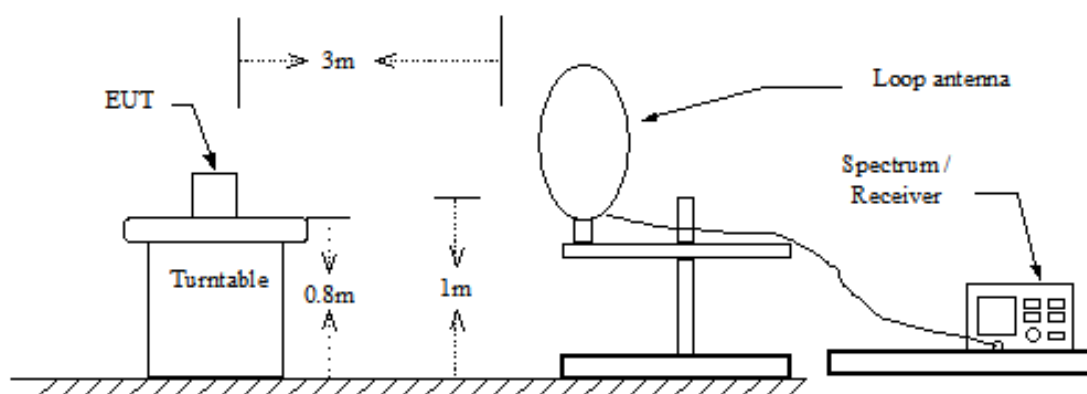
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

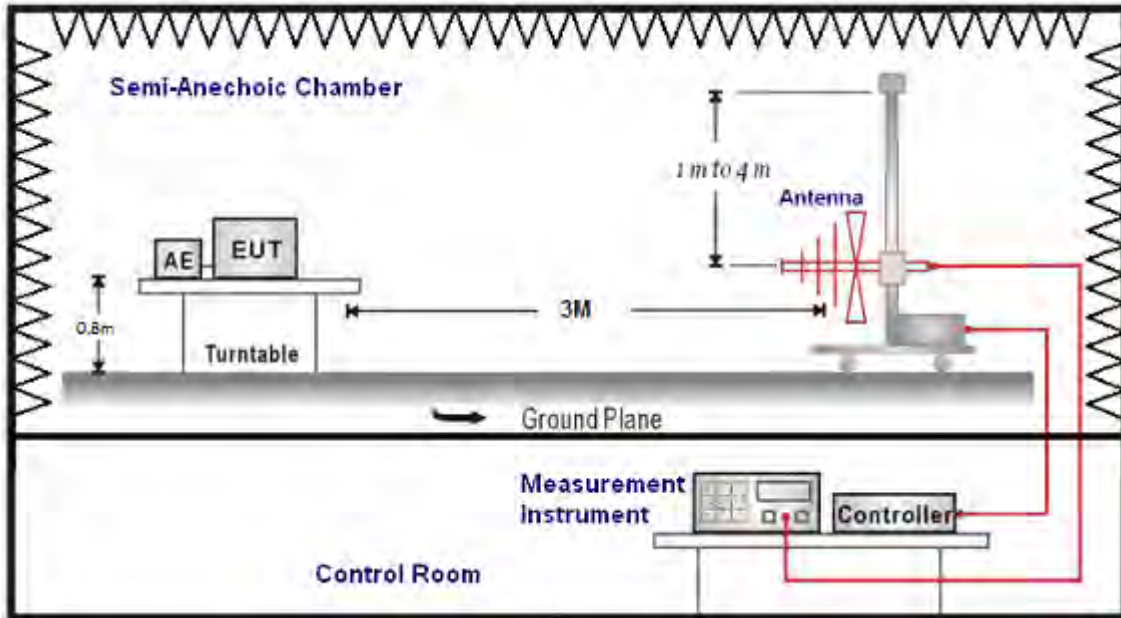
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

■ Setup

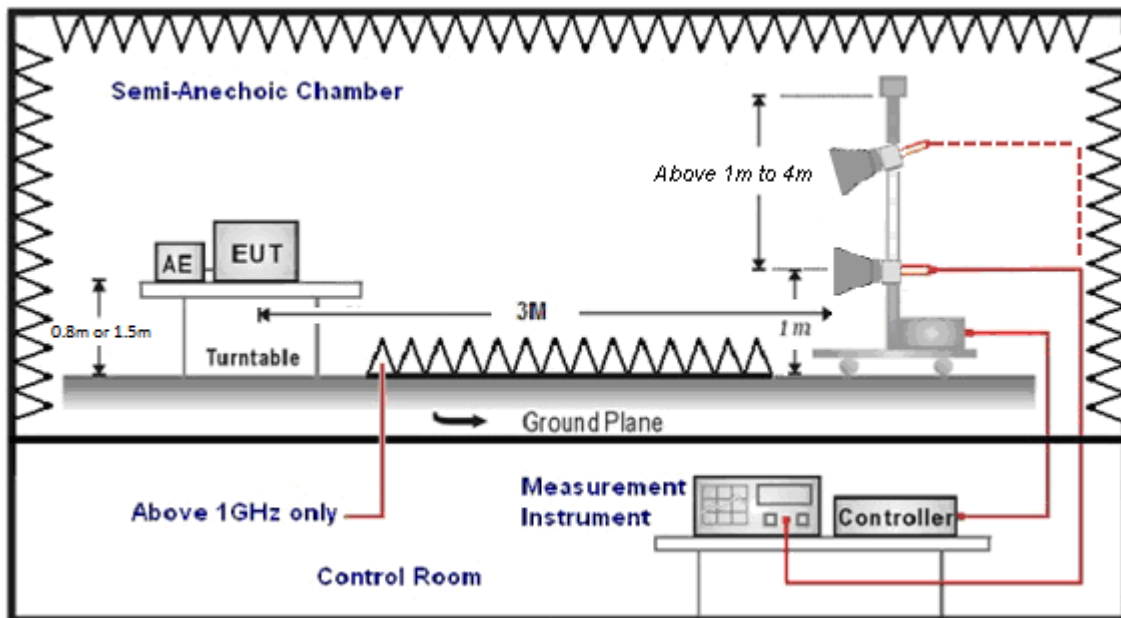
9 kHz ~ 30 MHz



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.

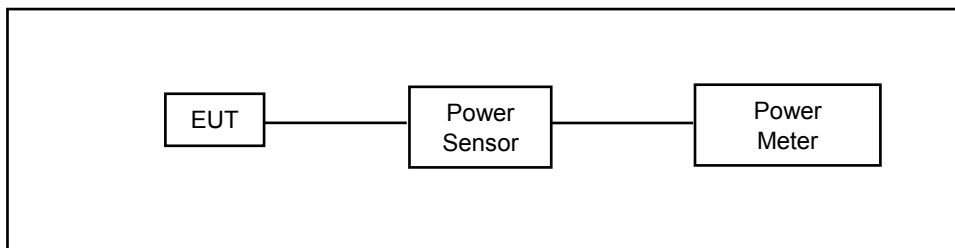
4.2. Maximum Conducted Output Power Measurement

■ Limit

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

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

■ Test Setup



■ Test Procedure

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

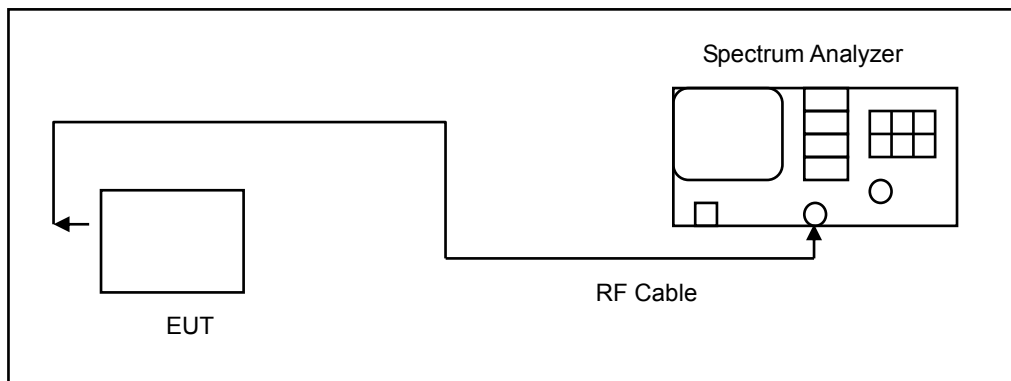
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

4.3. 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.

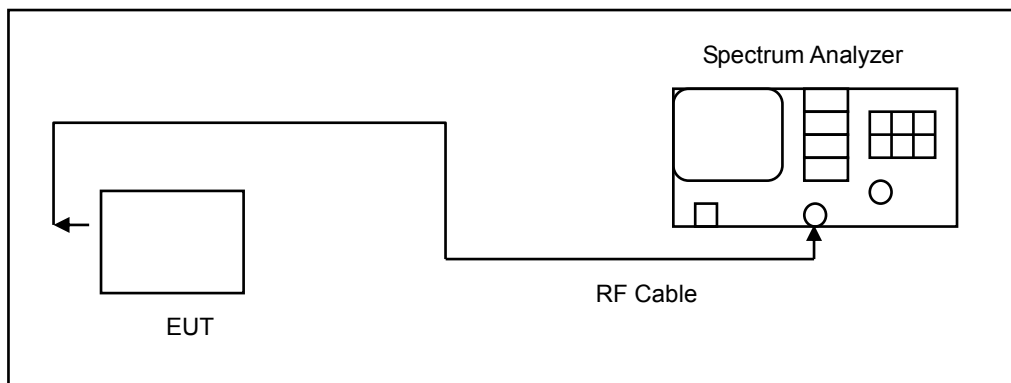
The test was performed at 3 channels (Channel low, middle, high)

4.4. Maximum Power Spectral Density Measurement

■ **Limit**

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

■ **Test Setup**



■ **Test Procedure**

The EUT tested to DTS test procedure of ANSI C63.10:2013 section 11.10.2 Method PKPSD for compliance to FCC 47CFR 15.247 requirements.

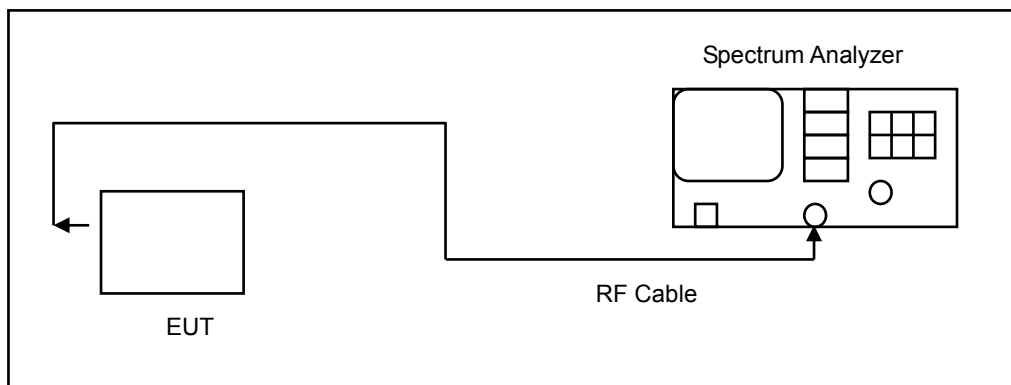
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.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

4.5. Out of Band Conducted Emissions Measurement

■ Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 Db below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

■ Test Setup



■ Test Procedure

In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function. All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band. The test was performed at 3 channels.



4.6. 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.

5 Test Results

Annex A. Conducted Test Results

Maximum Conducted Output Power Measurement

Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Peak Output Power		
			Measurement Results		Measurement Results		Limit
			(dBm)	(W)	(dBm)	(W)	(W)
Mode 2	2412	1 M	15.29	0.034	17.48	0.056	≤ 30
	2437		15.63	0.037	17.90	0.062	≤ 30
	2462		15.60	0.036	17.83	0.061	≤ 30
Mode 3	2412	6 M	10.55	0.011	19.09	0.081	≤ 30
	2437		15.37	0.034	19.84	0.096	≤ 30
	2462		10.54	0.011	18.97	0.079	≤ 30
Mode 4	2412	6.5 M	10.55	0.011	18.97	0.079	≤ 30
	2437		14.43	0.028	19.82	0.096	≤ 30
	2462		10.50	0.011	18.87	0.077	≤ 30

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

6 dB RF Bandwidth Measurement

Test Mode	Frequency (MHz)	Measurement Results	Limit
		(kHz)	(kHz)
Mode 2	2412	9066	≥ 500
	2437	9099	≥ 500
	2462	9104	≥ 500
Mode 3	2412	15130	≥ 500
	2437	15130	≥ 500
	2462	15120	≥ 500
Mode 4	2412	15130	≥ 500
	2437	15130	≥ 500
	2462	15130	≥ 500



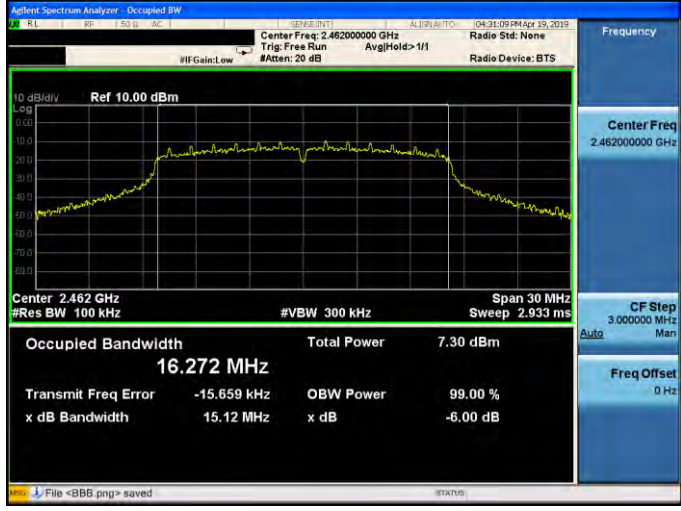


■ Test Graphs

Mode 2: IEEE 802.11b Continuous TX mode															
2412	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.41200000 GHz Trig: Free Run Avg Hold>1/1 #IFGain: Low #Atten: 20 dB Radio Device: BTS</p> <p>Ref 10.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>12.0 dBm</td></tr><tr><td>13.939 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>-25.974 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>9.066 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table> <p>File <BBB.png> saved</p>	Occupied Bandwidth	Total Power	12.0 dBm	13.939 MHz			Transmit Freq Error	-25.974 kHz	OBW Power	99.00 %	x dB Bandwidth	9.066 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.0 dBm													
13.939 MHz															
Transmit Freq Error	-25.974 kHz	OBW Power	99.00 %												
x dB Bandwidth	9.066 MHz	x dB	-6.00 dB												
2437	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.43700000 GHz Trig: Free Run Avg Hold>1/1 #IFGain: Low #Atten: 20 dB Radio Device: BTS</p> <p>Ref 10.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>12.4 dBm</td></tr><tr><td>13.825 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>1.615 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>9.099 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table> <p>File <BBB.png> saved</p>	Occupied Bandwidth	Total Power	12.4 dBm	13.825 MHz			Transmit Freq Error	1.615 kHz	OBW Power	99.00 %	x dB Bandwidth	9.099 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.4 dBm													
13.825 MHz															
Transmit Freq Error	1.615 kHz	OBW Power	99.00 %												
x dB Bandwidth	9.099 MHz	x dB	-6.00 dB												
2462	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.46200000 GHz Trig: Free Run Avg Hold>1/1 #IFGain: Low #Atten: 20 dB Radio Device: BTS</p> <p>Ref 10.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>12.9 dBm</td></tr><tr><td>13.826 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>2.052 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>9.104 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table> <p>File <BBB.png> saved</p>	Occupied Bandwidth	Total Power	12.9 dBm	13.826 MHz			Transmit Freq Error	2.052 kHz	OBW Power	99.00 %	x dB Bandwidth	9.104 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.9 dBm													
13.826 MHz															
Transmit Freq Error	2.052 kHz	OBW Power	99.00 %												
x dB Bandwidth	9.104 MHz	x dB	-6.00 dB												

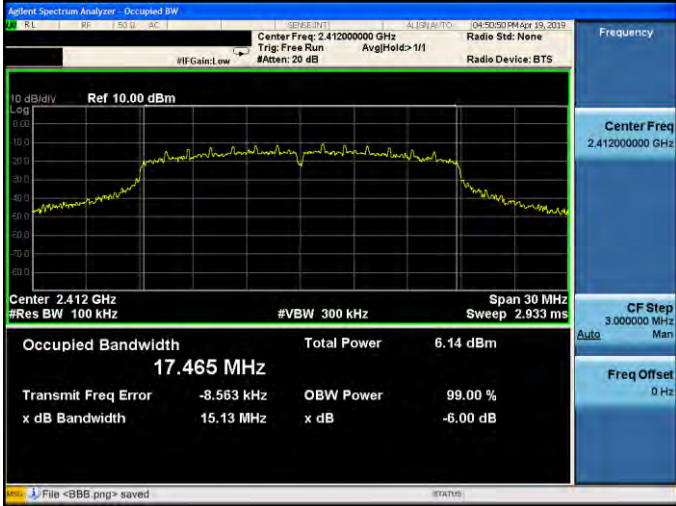

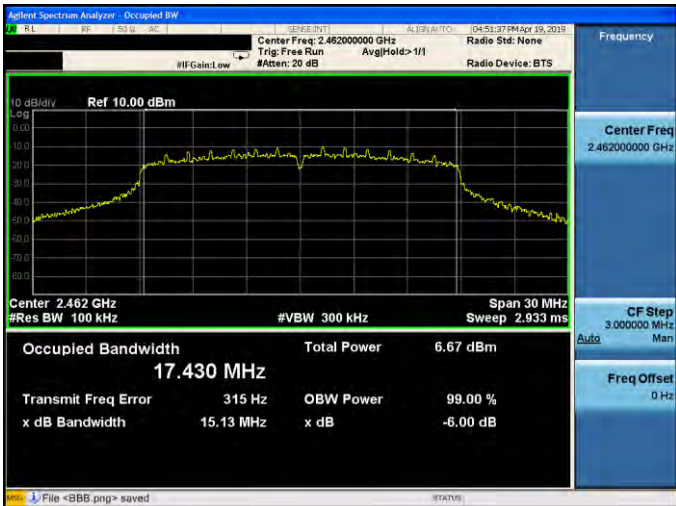


Mode 3: IEEE 802.11g Continuous TX mode

2412	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.41200000 GHz Trig: Free Run Avg Hold>1/1 #IFGain: Low #Atten: 20 dB Radio Device: BTS</p> <p>Ref 10.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 16.301 MHz Total Power 7.21 dBm</p> <p>Transmit Freq Error -12.113 kHz OBW Power 99.00 % x dB Bandwidth 15.13 MHz x dB -6.00 dB</p> <p>File <BBB.png> saved</p>
2437	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.43700000 GHz Trig: Free Run Avg Hold>1/1 #IFGain: Low #Atten: 20 dB Radio Device: BTS</p> <p>Ref 10.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 16.448 MHz Total Power 12.0 dBm</p> <p>Transmit Freq Error -12.380 kHz OBW Power 99.00 % x dB Bandwidth 15.13 MHz x dB -6.00 dB</p> <p>File <BBB.png> saved</p>
2462	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.46200000 GHz Trig: Free Run Avg Hold>1/1 #IFGain: Low #Atten: 20 dB Radio Device: BTS</p> <p>Ref 10.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 16.272 MHz Total Power 7.30 dBm</p> <p>Transmit Freq Error -15.659 kHz OBW Power 99.00 % x dB Bandwidth 15.12 MHz x dB -6.00 dB</p> <p>File <BBB.png> saved</p>



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

2412	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.41200000 GHz Trig: Free Run Avg Hold>1/1 #IFGain: Low #Atten: 20 dB Radio Device: BTS</p> <p>Ref 10.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.465 MHz Total Power 6.14 dBm</p> <p>Transmit Freq Error -8.563 kHz OBW Power 99.00 % x dB Bandwidth 15.13 MHz x dB -6.00 dB</p> <p>File <BBB.png> saved</p>
2437	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.43700000 GHz Trig: Free Run Avg Hold>1/1 #IFGain: Low #Atten: 20 dB Radio Device: BTS</p> <p>Ref 10.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.538 MHz Total Power 10.3 dBm</p> <p>Transmit Freq Error -11.920 kHz OBW Power 99.00 % x dB Bandwidth 15.13 MHz x dB -6.00 dB</p> <p>File <BBB.png> saved</p>
2462	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.46200000 GHz Trig: Free Run Avg Hold>1/1 #IFGain: Low #Atten: 20 dB Radio Device: BTS</p> <p>Ref 10.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.430 MHz Total Power 6.67 dBm</p> <p>Transmit Freq Error 315 Hz OBW Power 99.00 % x dB Bandwidth 15.13 MHz x dB -6.00 dB</p> <p>File <BBB.png> saved</p>



Maximum Power Spectral Density Measurement

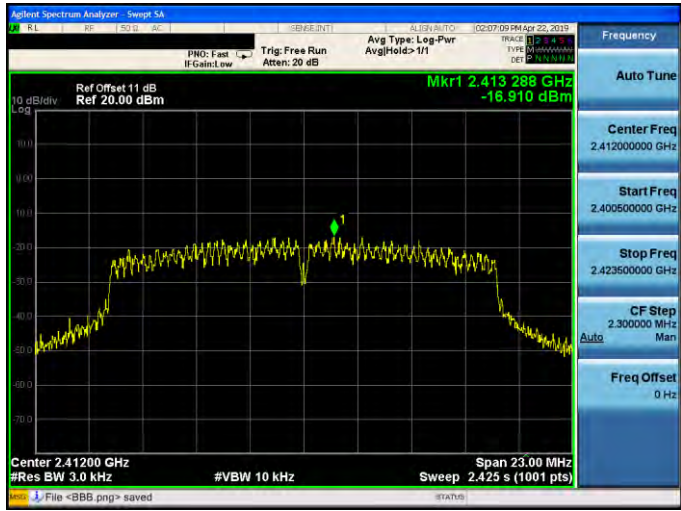

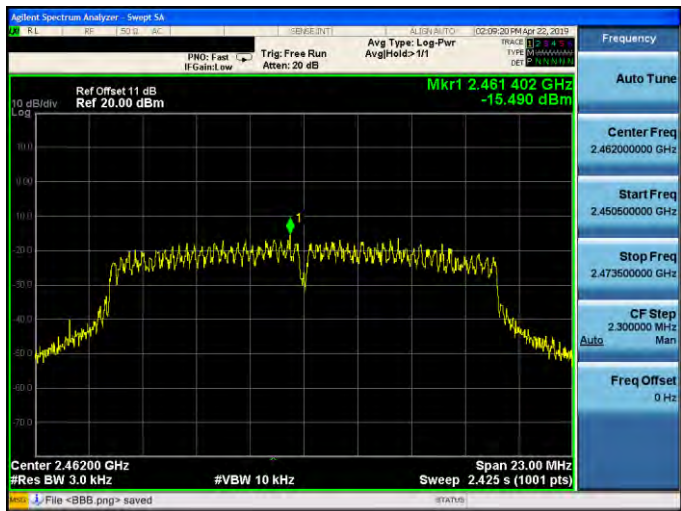
Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)	Limit (dBm/3 kHz)
Mode 2	2412	-9.777	≤ 8
	2437	-10.162	≤ 8
	2462	-8.259	≤ 8
Mode 3	2412	-16.910	≤ 8
	2437	-10.552	≤ 8
	2462	-15.490	≤ 8
Mode 4	2412	-15.938	≤ 8
	2437	-11.832	≤ 8
	2462	-15.336	≤ 8



■ Test Graphs




Mode 2: IEEE 802.11b Continuous TX mode	
2412	<p>Agilent Spectrum Analyzer - Swept SA Date/Time: 02:04:36 PM Apr 23, 2019 PNO: Fast IF Gain: Low Trig: Free Run Atten: 20 dB Avg Type: Log-Pwr Avg/Hold: 1/1 Ref Offset 11 dB Ref 20.00 dBm Mkr1 2.412 756 GHz -9.777 dBm Center 2.412000 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 14.00 MHz Sweep 1.476 s (1001 pts) File <BBB.png> saved</p>
2437	<p>Agilent Spectrum Analyzer - Swept SA Date/Time: 02:05:24 PM Apr 23, 2019 PNO: Fast IF Gain: Low Trig: Free Run Atten: 20 dB Avg Type: Log-Pwr Avg/Hold: 1/1 Ref Offset 11 dB Ref 20.00 dBm Mkr1 2.437 756 GHz -10.162 dBm Center 2.437000 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 14.00 MHz Sweep 1.476 s (1001 pts) File <BBB.png> saved</p>
2462	<p>Agilent Spectrum Analyzer - Swept SA Date/Time: 02:06:00 PM Apr 23, 2019 PNO: Fast IF Gain: Low Trig: Free Run Atten: 20 dB Avg Type: Log-Pwr Avg/Hold: 1/1 Ref Offset 11 dB Ref 20.00 dBm Mkr1 2.462 756 GHz -8.259 dBm Center 2.462000 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 14.00 MHz Sweep 1.476 s (1001 pts) File <BBB.png> saved</p>



Mode 3: IEEE 802.11g Continuous TX mode	
2412	
2437	
2462	



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

2412	
2437	
2462	

Out of Band Conducted Emissions Measurement

■ Test Graphs

Reference level

Mode 2: IEEE 802.11b Continuous TX mode	
2412	
2437	
2462	



Mode 3: IEEE 802.11g Continuous TX mode	
2412	<p>Agilent Spectrum Analyzer - Swept SA Date/Time: 10/27/11 PM Apr 23, 2019 PNO: Fast IF Gain: Low Trig: Free Run Atten: 20 dB Avg Type: Log-Pwr Avg/Hold: 1/1 Ref Offset 11 dB Ref 20.00 dBm Mkr1 2.413 242 GHz -0.441 dBm Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Span 23.00 MHz Sweep 2.200 ms (1001 pts) File <BBB.png> saved</p>
2437	<p>Agilent Spectrum Analyzer - Swept SA Date/Time: 10/28/12 PM Apr 23, 2019 PNO: Fast IF Gain: Low Trig: Free Run Atten: 20 dB Avg Type: Log-Pwr Avg/Hold: 1/1 Ref Offset 11 dB Ref 20.00 dBm Mkr1 2.438 265 GHz 5.066 dBm Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Span 23.00 MHz Sweep 2.200 ms (1001 pts) File <BBB.png> saved</p>
2462	<p>Agilent Spectrum Analyzer - Swept SA Date/Time: 10/28/14 PM Apr 23, 2019 PNO: Fast IF Gain: Low Trig: Free Run Atten: 20 dB Avg Type: Log-Pwr Avg/Hold: 1/1 Ref Offset 11 dB Ref 20.00 dBm Mkr1 2.463 265 GHz 0.237 dBm Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Span 23.00 MHz Sweep 2.200 ms (1001 pts) File <BBB.png> saved</p>



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

2412	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11 dB Ref 20.00 dBm</p> <p>Mkr1 2.413 265 GHz -0.229 dBm</p> <p>Center 2.41200 GHz #Res BW 100 kHz</p> <p>Span 23.00 MHz #VBW 300 kHz Sweep 2.200 ms (1001 pts)</p> <p>File <BBB.png> saved</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.412000000 GHz</p> <p>Start Freq 2.400500000 GHz</p> <p>Stop Freq 2.423500000 GHz</p> <p>CF Step 2.300000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
2437	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11 dB Ref 20.00 dBm</p> <p>Mkr1 2.438 265 GHz 3.890 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz</p> <p>Span 23.00 MHz #VBW 300 kHz Sweep 2.200 ms (1001 pts)</p> <p>File <BBB.png> saved</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.437000000 GHz</p> <p>Start Freq 2.425500000 GHz</p> <p>Stop Freq 2.448500000 GHz</p> <p>CF Step 2.300000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
2462	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11 dB Ref 20.00 dBm</p> <p>Mkr1 2.463 265 GHz 0.356 dBm</p> <p>Center 2.46200 GHz #Res BW 100 kHz</p> <p>Span 23.00 MHz #VBW 300 kHz Sweep 2.200 ms (1001 pts)</p> <p>File <BBB.png> saved</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.462000000 GHz</p> <p>Start Freq 2.450500000 GHz</p> <p>Stop Freq 2.473500000 GHz</p> <p>CF Step 2.300000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>



Out of Band Conducted Spurious Emission

Mode 2: IEEE 802.11b Continuous TX mode																												
2412	<p>Ref Offset 11 dB Ref 20.00 dBm Mkr1 2.411 6 GHz 5.062 dBm</p> <p>Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 2.531 s (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SQL</th> <th>F</th> <th>P</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.411 6 GHz</td> <td>5.062 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>24.760 9 GHz</td> <td>-34.692 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SQL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.411 6 GHz	5.062 dBm				2	N	1	f	24.760 9 GHz	-34.692 dBm			
MKR	MODE	TRIG	SQL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	2.411 6 GHz	5.062 dBm																							
2	N	1	f	24.760 9 GHz	-34.692 dBm																							
2437	<p>Ref Offset 11 dB Ref 20.00 dBm Mkr1 2.435 5 GHz 5.162 dBm</p> <p>Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 2.531 s (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SQL</th> <th>F</th> <th>P</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.435 5 GHz</td> <td>5.162 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>24.768 2 GHz</td> <td>-35.319 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SQL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.435 5 GHz	5.162 dBm				2	N	1	f	24.768 2 GHz	-35.319 dBm			
MKR	MODE	TRIG	SQL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	2.435 5 GHz	5.162 dBm																							
2	N	1	f	24.768 2 GHz	-35.319 dBm																							
2462	<p>Ref Offset 11 dB Ref 20.00 dBm Mkr1 2.460 6 GHz 5.803 dBm</p> <p>Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 2.531 s (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SQL</th> <th>F</th> <th>P</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.460 6 GHz</td> <td>5.803 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>26.022 5 GHz</td> <td>-35.667 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SQL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.460 6 GHz	5.803 dBm				2	N	1	f	26.022 5 GHz	-35.667 dBm			
MKR	MODE	TRIG	SQL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	2.460 6 GHz	5.803 dBm																							
2	N	1	f	26.022 5 GHz	-35.667 dBm																							



Mode 3: IEEE 802.11g Continuous TX mode																												
2412	<table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SOL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.4130 GHz</td> <td>-0.469 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>26.8978 GHz</td> <td>-34.162 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4130 GHz	-0.469 dBm				2	N	1	f	26.8978 GHz	-34.162 dBm			
MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	2.4130 GHz	-0.469 dBm																							
2	N	1	f	26.8978 GHz	-34.162 dBm																							
2437	<table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SOL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.4355 GHz</td> <td>4.461 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>26.9157 GHz</td> <td>-35.414 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4355 GHz	4.461 dBm				2	N	1	f	26.9157 GHz	-35.414 dBm			
MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	2.4355 GHz	4.461 dBm																							
2	N	1	f	26.9157 GHz	-35.414 dBm																							
2462	<table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SOL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.4633 GHz</td> <td>0.150 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>26.9382 GHz</td> <td>-36.007 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4633 GHz	0.150 dBm				2	N	1	f	26.9382 GHz	-36.007 dBm			
MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	2.4633 GHz	0.150 dBm																							
2	N	1	f	26.9382 GHz	-36.007 dBm																							

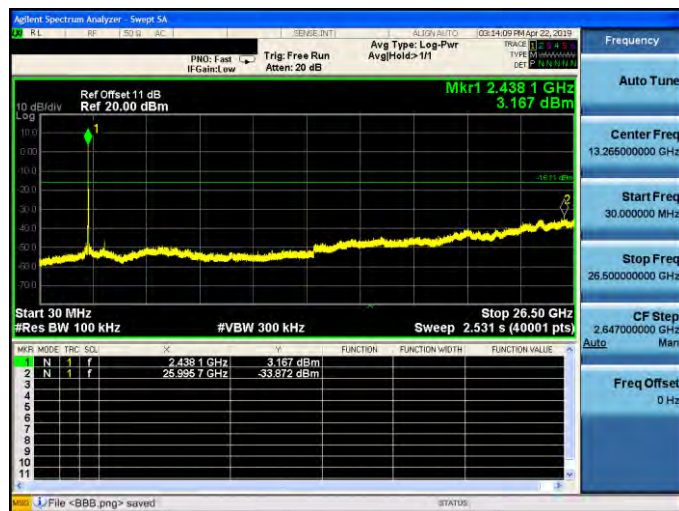


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode

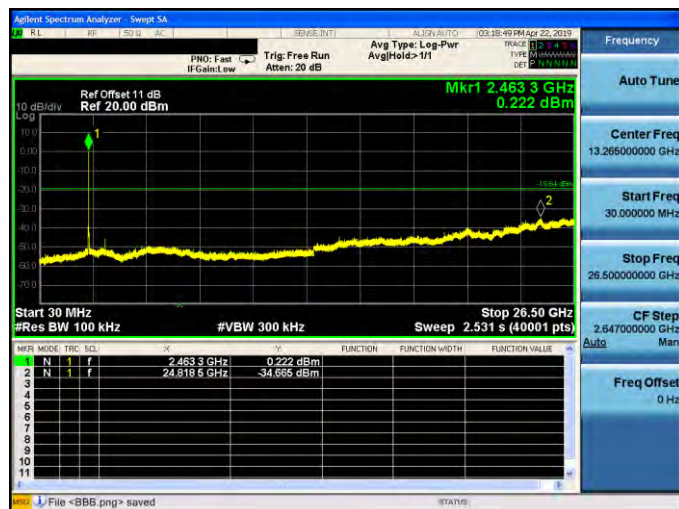
2412



2437



2462

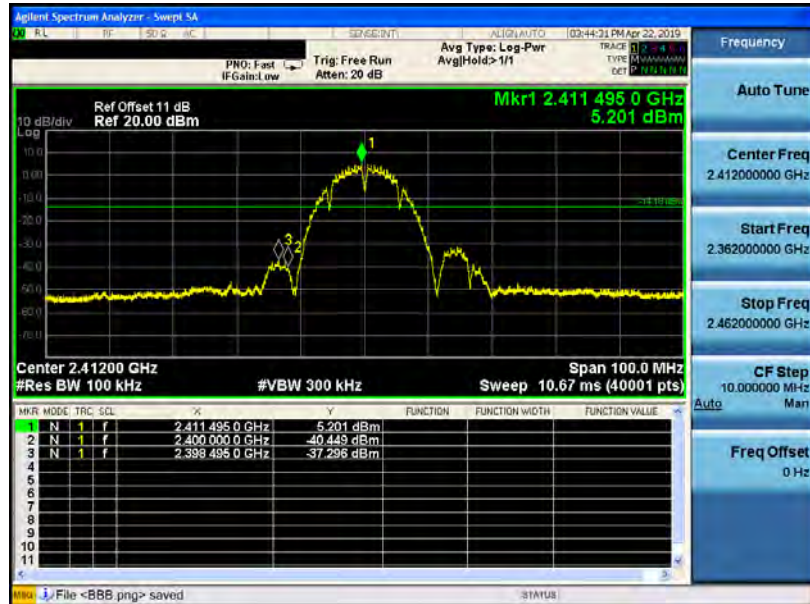




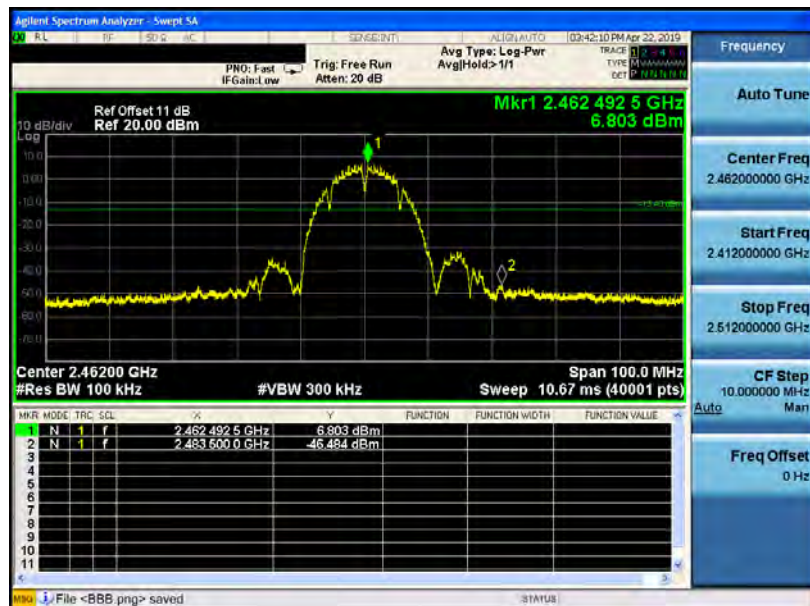
Conducted Band Edge

Mode 2: IEEE 802.11b Continuous TX mode

2412 MHz



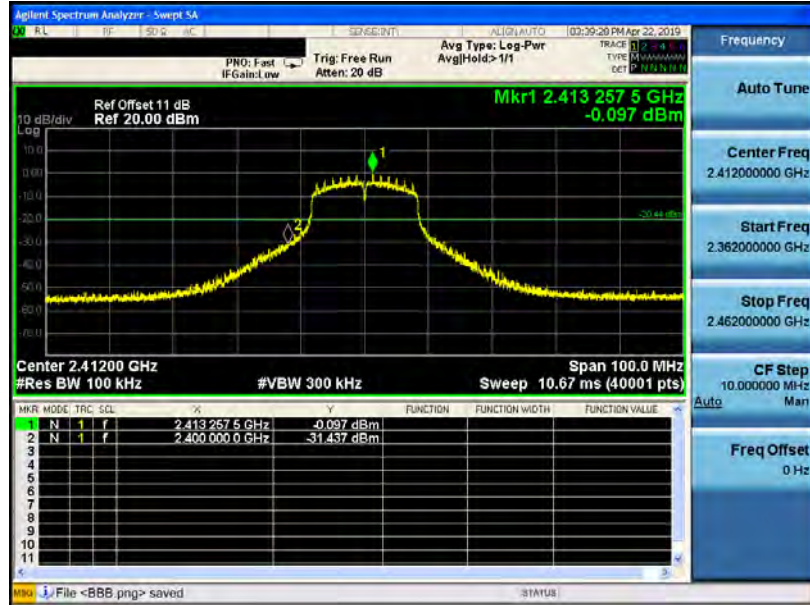
2462 MHz



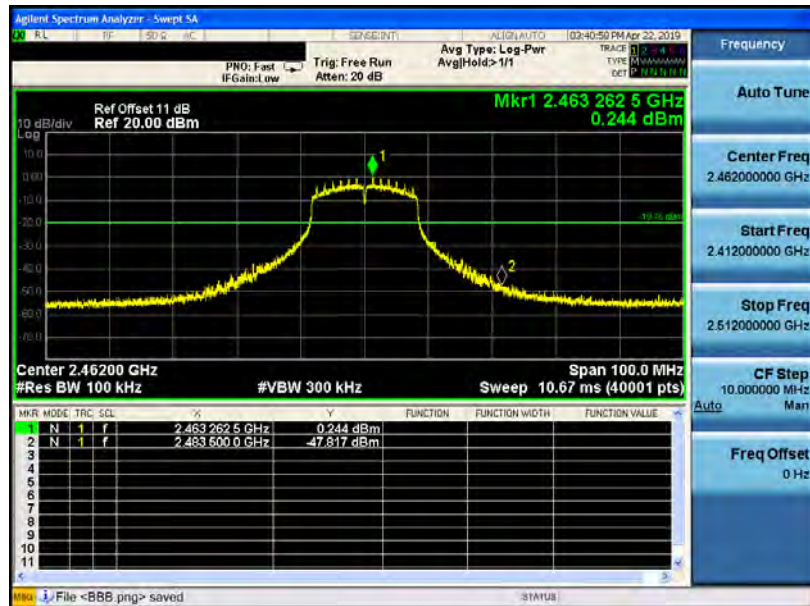


Mode 3: IEEE 802.11g Continuous TX mode

2412 MHz

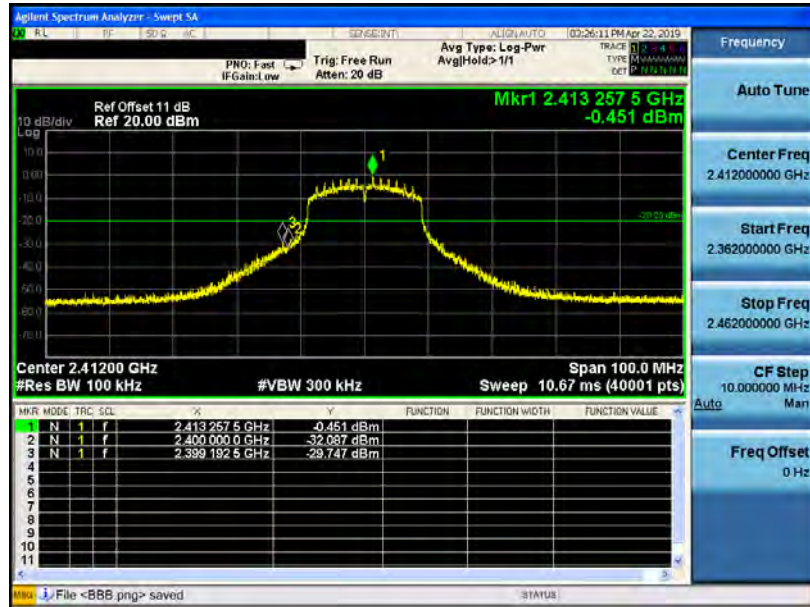


2462 MHz

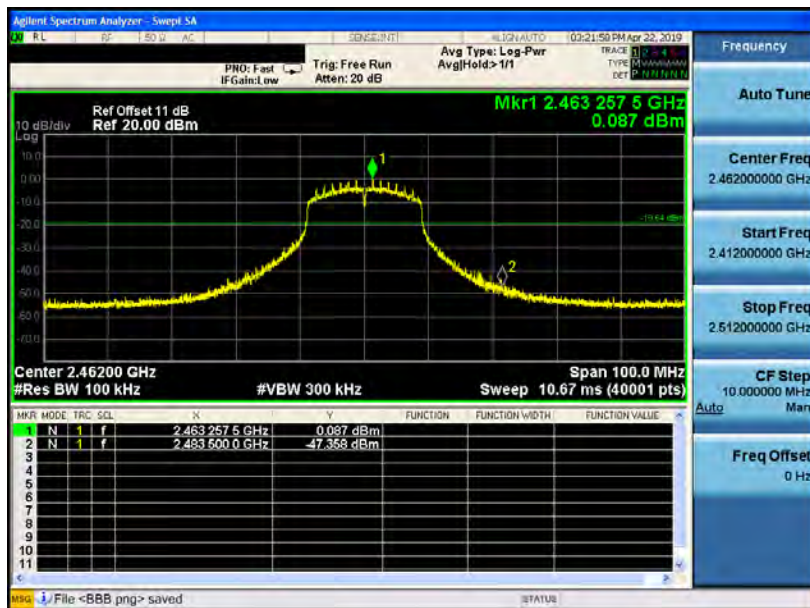


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode

2412 MHz



2462 MHz





Annex C. Radiated Emission Measurement

Harmonic

Below 1 GHz

Standard:	FCC Part 15.247			Test Distance:	3m		
Test item:	Harmonic			Power:	DC 3.65 V		
Test Mode:	Mode 1			Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
248.2500	41.16	-5.80	35.36	46.00	-10.64	QP	H
267.6500	40.20	-4.99	35.21	46.00	-10.79	QP	H
300.6300	37.65	-3.72	33.93	46.00	-12.07	QP	H
505.3000	31.37	0.28	31.65	46.00	-14.35	QP	H
599.3900	32.28	2.51	34.79	46.00	-11.21	QP	H
743.9200	30.14	5.36	35.50	46.00	-10.50	QP	H
247.2800	35.58	-5.82	29.76	46.00	-16.24	QP	V
520.8200	40.35	0.56	40.91	46.00	-5.09	QP	V
551.8600	39.90	1.15	41.05	46.00	-4.95	QP	V
581.9300	40.74	2.01	42.75	46.00	-3.25	QP	V
656.6200	31.99	3.37	35.36	46.00	-10.64	QP	V
846.7400	30.69	6.95	37.64	46.00	-8.36	QP	V

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

Example: 35.36=-5.80+41.16.

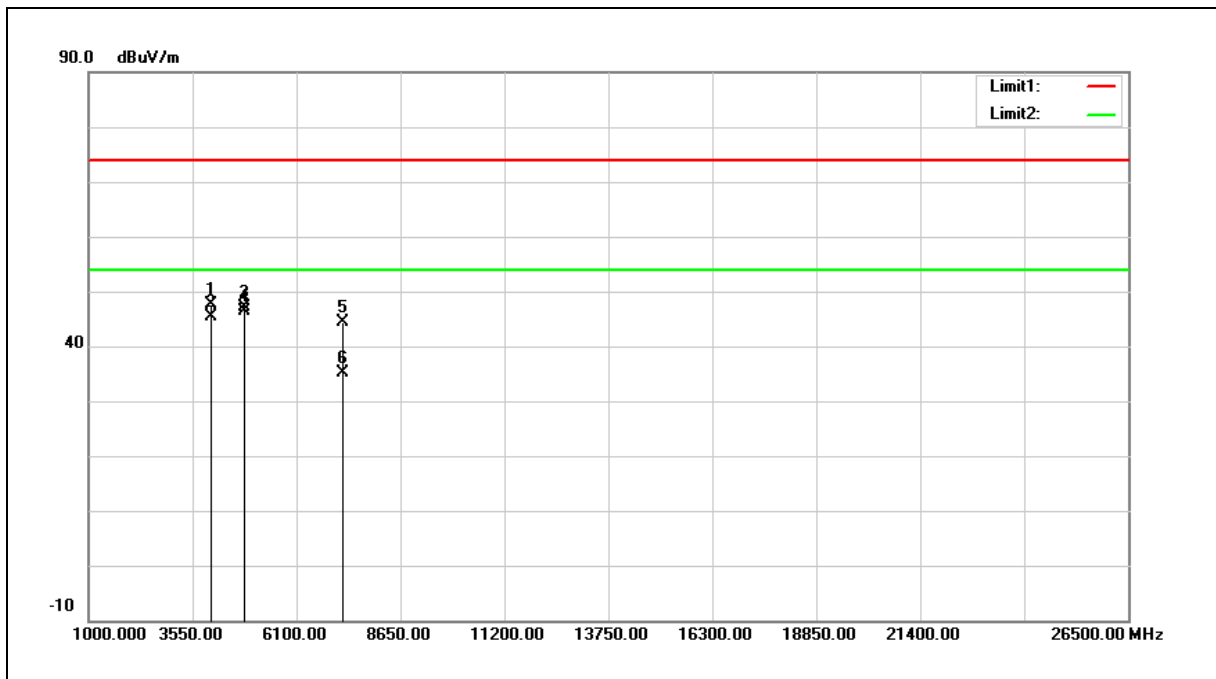
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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



Above 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4020.000	44.46	3.09	47.55	74.00	-26.45	peak
2	4020.000	42.22	3.09	45.31	54.00	-8.69	AVG
3	4824.000	41.78	5.37	47.15	74.00	-26.85	peak
4	4824.000	41.06	5.37	46.43	54.00	-7.57	AVG
5	7236.000	32.43	11.90	44.33	74.00	-29.67	peak
6	7236.000	23.12	11.90	35.02	54.00	-18.98	AVG

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

Example: 47.55=3.09+44.46.

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4020.00	44.83	3.09	47.92	74.00	-26.08	peak
2	4020.00	42.27	3.09	45.36	54.00	-8.64	AVG
3	4824.00	41.49	5.37	46.86	74.00	-27.14	peak
4	4824.00	39.49	5.37	44.86	54.00	-9.14	AVG
5	7236.00	33.55	11.90	45.45	74.00	-28.55	peak
6	7236.00	23.31	11.90	35.21	54.00	-18.79	AVG

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

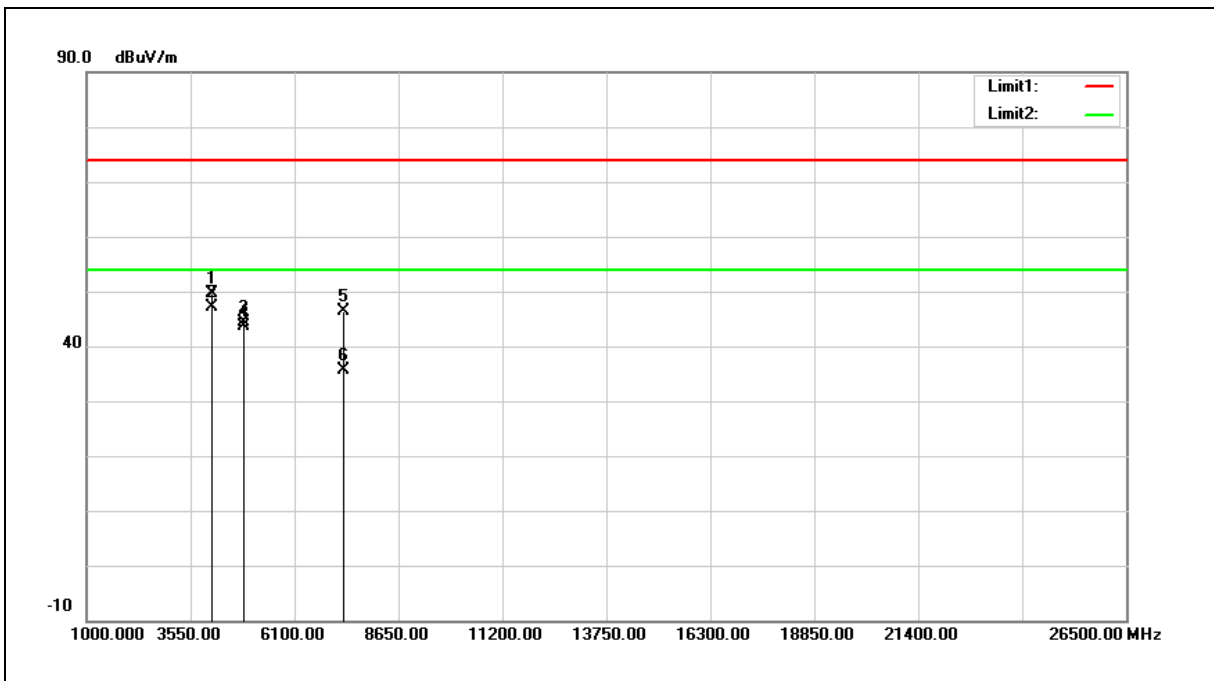
Example: 47.92=3.09+44.83.

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4061.000	46.45	3.23	49.68	74.00	-24.32	peak
2	4061.000	43.98	3.23	47.21	54.00	-6.79	AVG
3	4874.000	38.86	5.47	44.33	74.00	-29.67	peak
4	4874.000	38.14	5.47	43.61	54.00	-10.39	AVG
5	7311.000	34.29	12.13	46.42	74.00	-27.58	peak
6	7311.000	23.53	12.13	35.66	54.00	-18.34	AVG

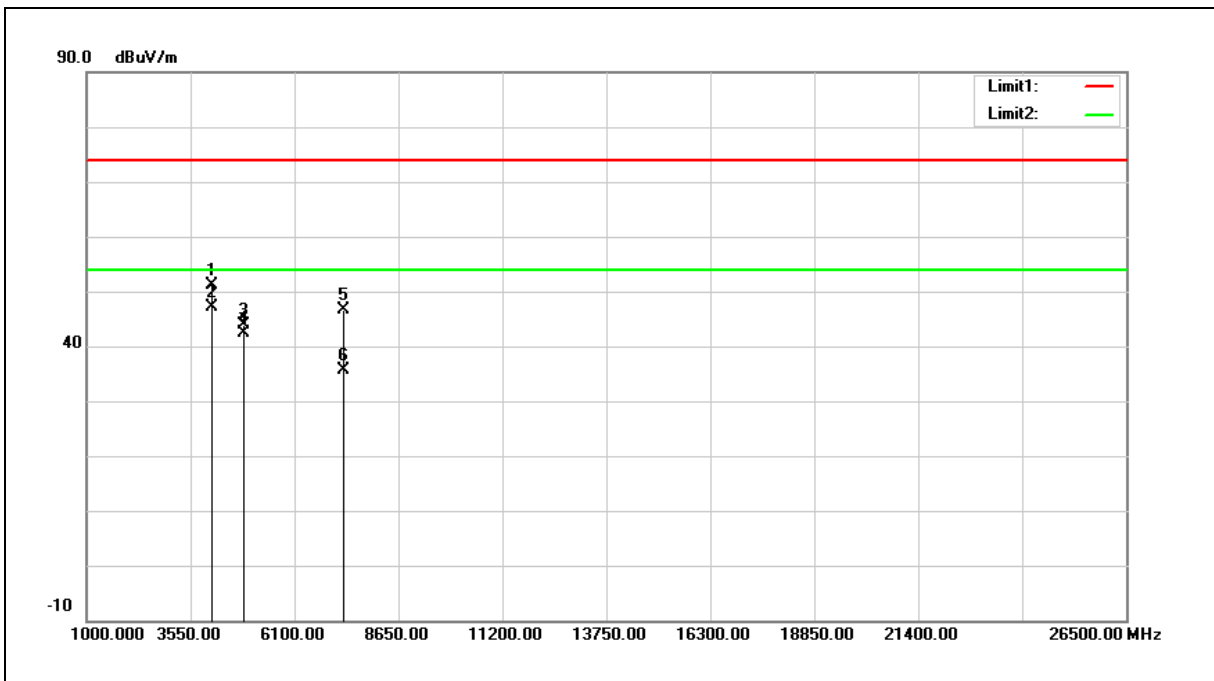
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4061.000	47.90	3.23	51.13	74.00	-22.87	peak
2	4061.000	43.89	3.23	47.12	54.00	-6.88	AVG
3	4874.000	38.29	5.47	43.76	74.00	-30.24	peak
4	4874.000	36.93	5.47	42.40	54.00	-11.60	AVG
5	7311.000	34.59	12.13	46.72	74.00	-27.28	peak
6	7311.000	23.49	12.13	35.62	54.00	-18.38	AVG

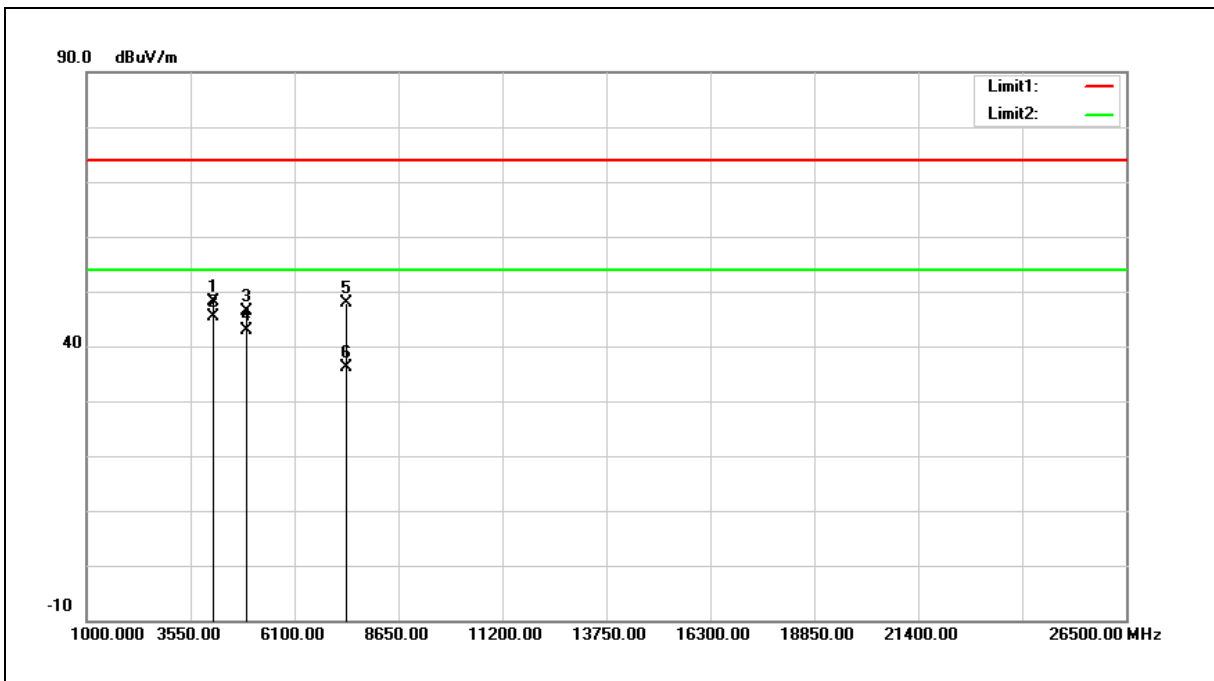
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4103.000	44.78	3.38	48.16	74.00	-25.84	peak
2	4103.000	42.07	3.38	45.45	54.00	-8.55	AVG
3	4924.000	40.90	5.58	46.48	74.00	-27.52	peak
4	4924.000	37.23	5.58	42.81	54.00	-11.19	AVG
5	7386.000	35.48	12.36	47.84	74.00	-26.16	peak
6	7386.000	23.65	12.36	36.01	54.00	-17.99	AVG

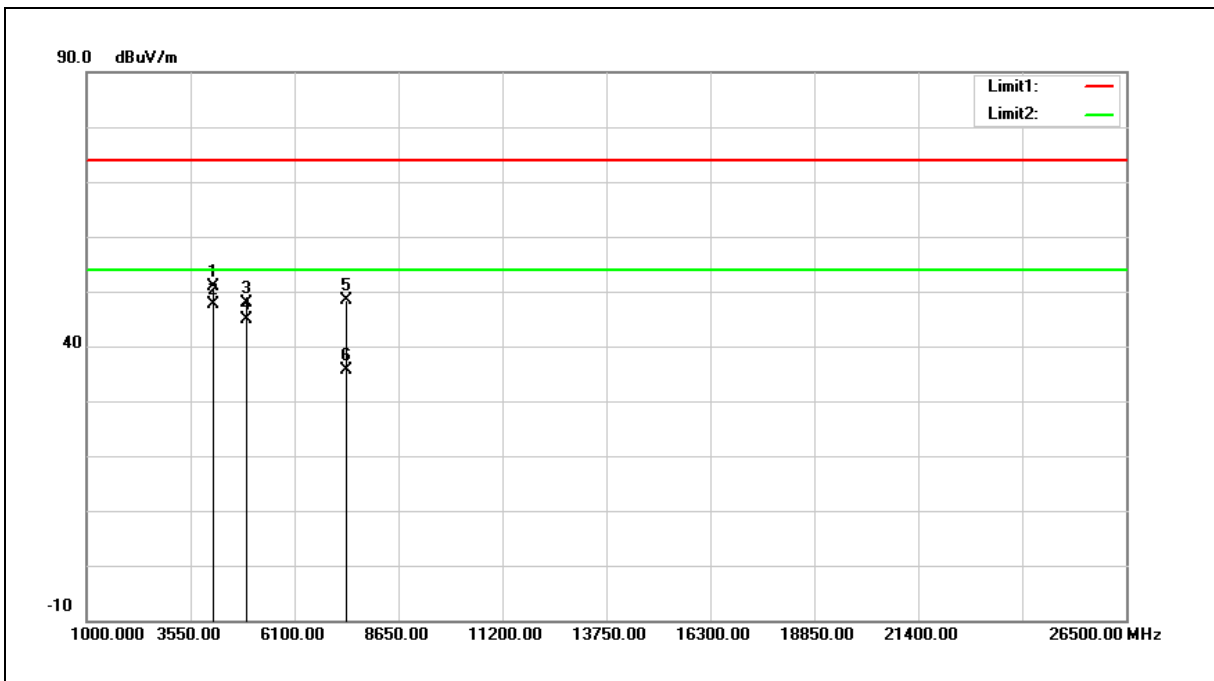
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4103.000	47.49	3.38	50.87	74.00	-23.13	peak
2	4103.000	44.28	3.38	47.66	54.00	-6.34	AVG
3	4924.000	42.29	5.58	47.87	74.00	-26.13	peak
4	4924.000	39.19	5.58	44.77	54.00	-9.23	AVG
5	7386.000	35.90	12.36	48.26	74.00	-25.74	peak
6	7386.000	23.37	12.36	35.73	54.00	-18.27	AVG

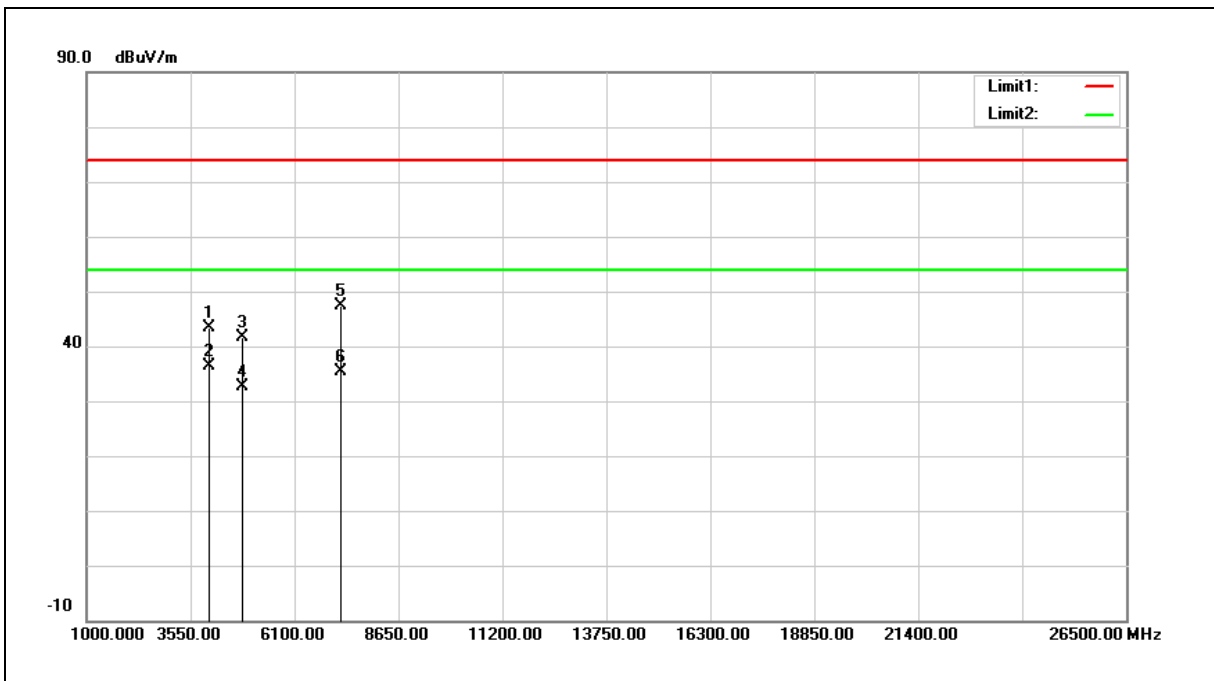
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4020.000	40.35	3.09	43.44	74.00	-30.56	peak
2	4020.000	33.17	3.09	36.26	54.00	-17.74	AVG
3	4824.000	36.20	5.37	41.57	74.00	-32.43	peak
4	4824.000	27.26	5.37	32.63	54.00	-21.37	AVG
5	7236.000	35.43	11.90	47.33	74.00	-26.67	peak
6	7236.000	23.45	11.90	35.35	54.00	-18.65	AVG

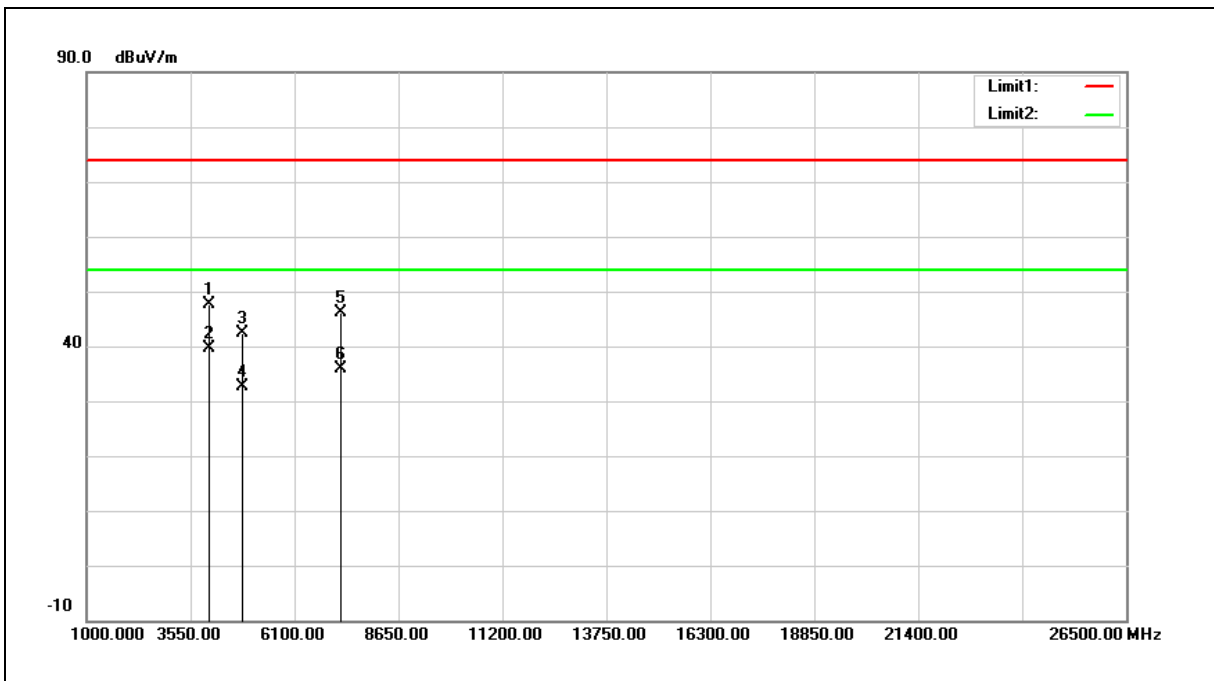
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

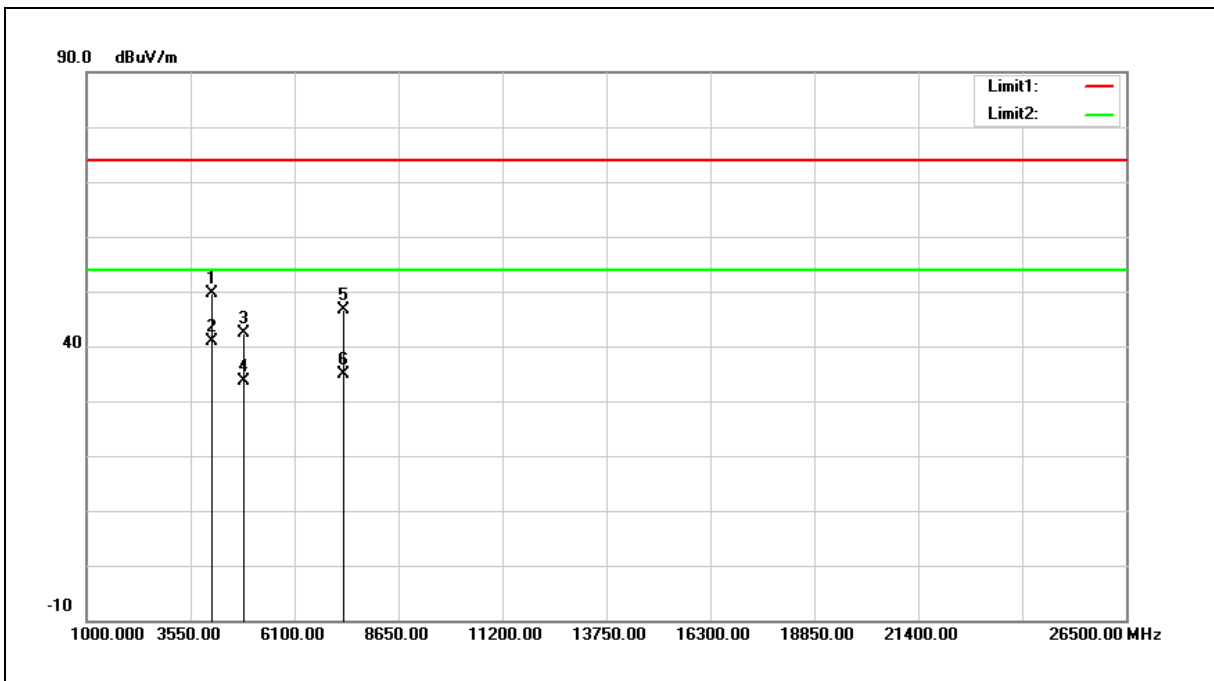


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4020.000	44.60	3.09	47.69	74.00	-26.31	peak
2	4020.000	36.66	3.09	39.75	54.00	-14.25	AVG
3	4824.000	36.93	5.37	42.30	74.00	-31.70	peak
4	4824.000	27.32	5.37	32.69	54.00	-21.31	AVG
5	7236.000	34.21	11.90	46.11	74.00	-27.89	peak
6	7236.000	23.89	11.90	35.79	54.00	-18.21	AVG

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4061.000	46.32	3.23	49.55	74.00	-24.45	peak
2	4061.000	37.56	3.23	40.79	54.00	-13.21	AVG
3	4874.000	36.88	5.47	42.35	74.00	-31.65	peak
4	4874.000	28.14	5.47	33.61	54.00	-20.39	AVG
5	7311.000	34.51	12.13	46.64	74.00	-27.36	peak
6	7311.000	22.80	12.13	34.93	54.00	-19.07	AVG

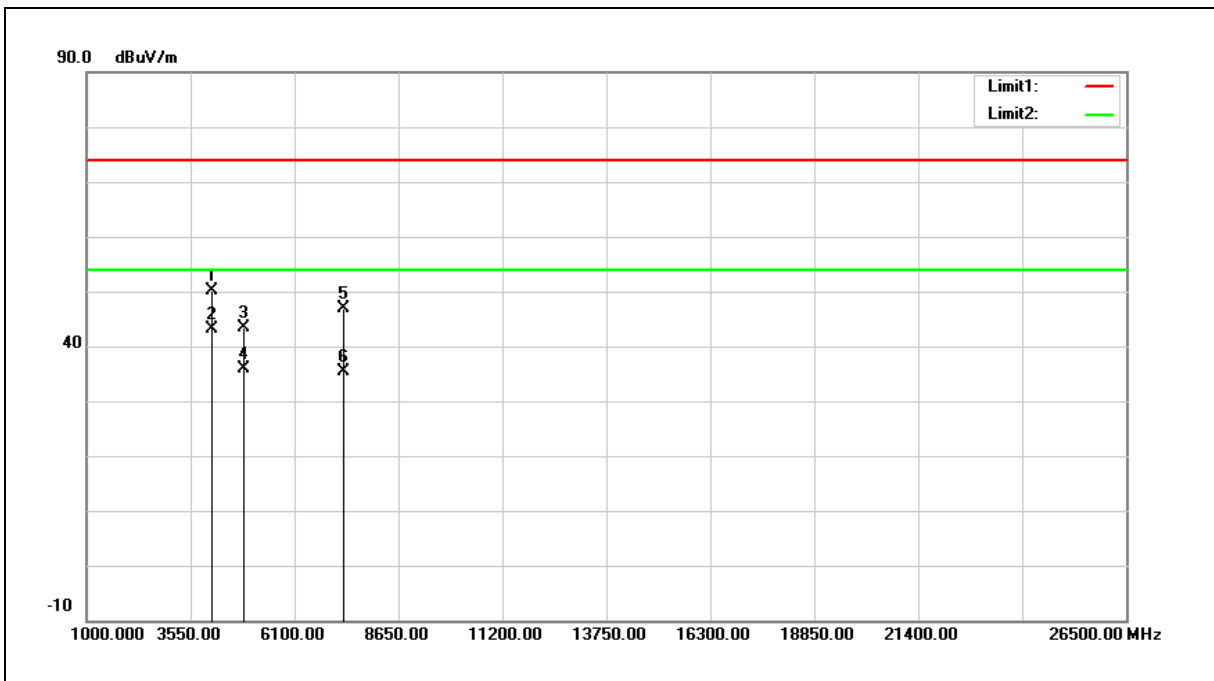
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4061.000	46.99	3.23	50.22	74.00	-23.78	peak
2	4061.000	39.81	3.23	43.04	54.00	-10.96	AVG
3	4874.000	37.95	5.47	43.42	74.00	-30.58	peak
4	4874.000	30.38	5.47	35.85	54.00	-18.15	AVG
5	7311.000	34.77	12.13	46.90	74.00	-27.10	peak
6	7311.000	23.28	12.13	35.41	54.00	-18.59	AVG

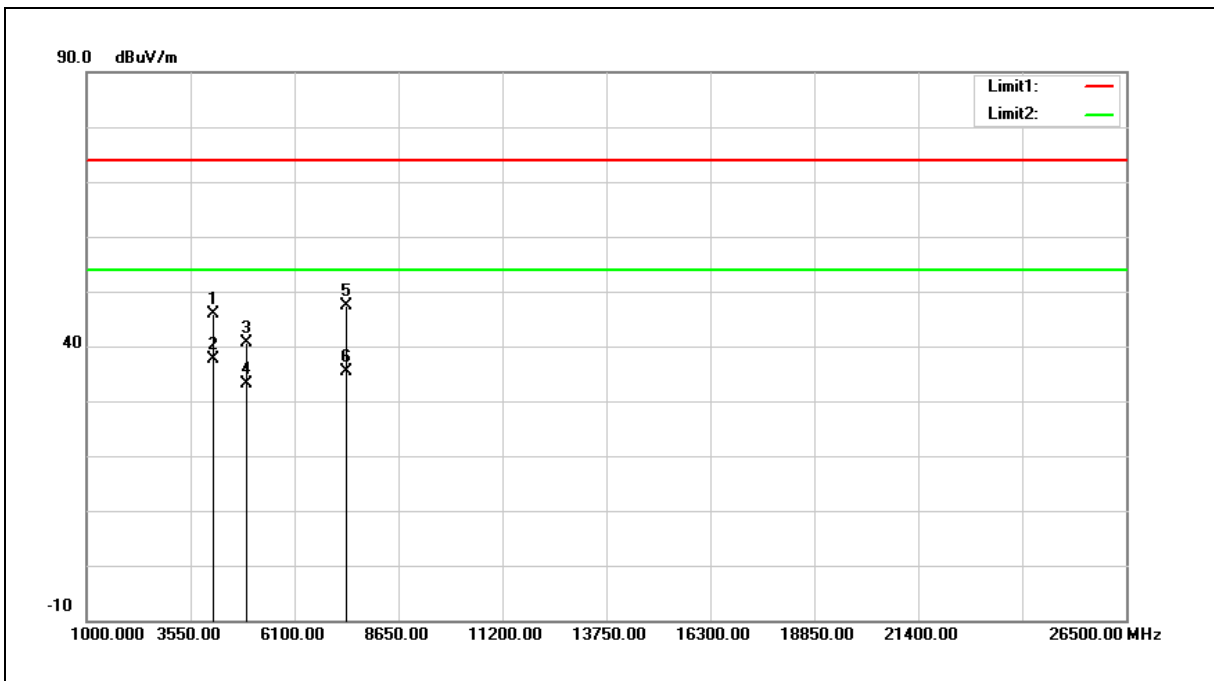
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4103.000	42.50	3.38	45.88	74.00	-28.12	peak
2	4103.000	34.32	3.38	37.70	54.00	-16.30	AVG
3	4924.000	34.94	5.58	40.52	74.00	-33.48	peak
4	4924.000	27.49	5.58	33.07	54.00	-20.93	AVG
5	7386.000	35.03	12.36	47.39	74.00	-26.61	peak
6	7386.000	23.02	12.36	35.38	54.00	-18.62	AVG

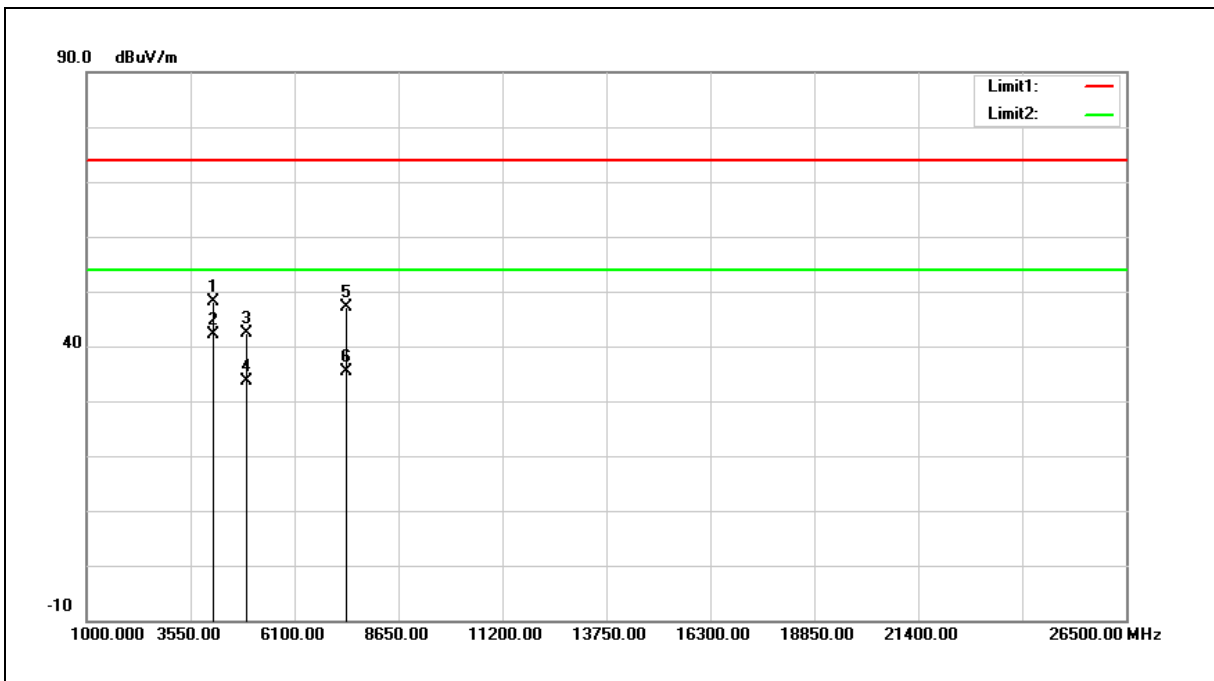
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4103.000	44.64	3.38	48.02	74.00	-25.98	peak
2	4103.000	38.76	3.38	42.14	54.00	-11.86	AVG
3	4924.000	36.89	5.58	42.47	74.00	-31.53	peak
4	4924.000	28.12	5.58	33.70	54.00	-20.30	AVG
5	7386.000	34.80	12.36	47.16	74.00	-26.84	peak
6	7386.000	23.09	12.36	35.45	54.00	-18.55	AVG

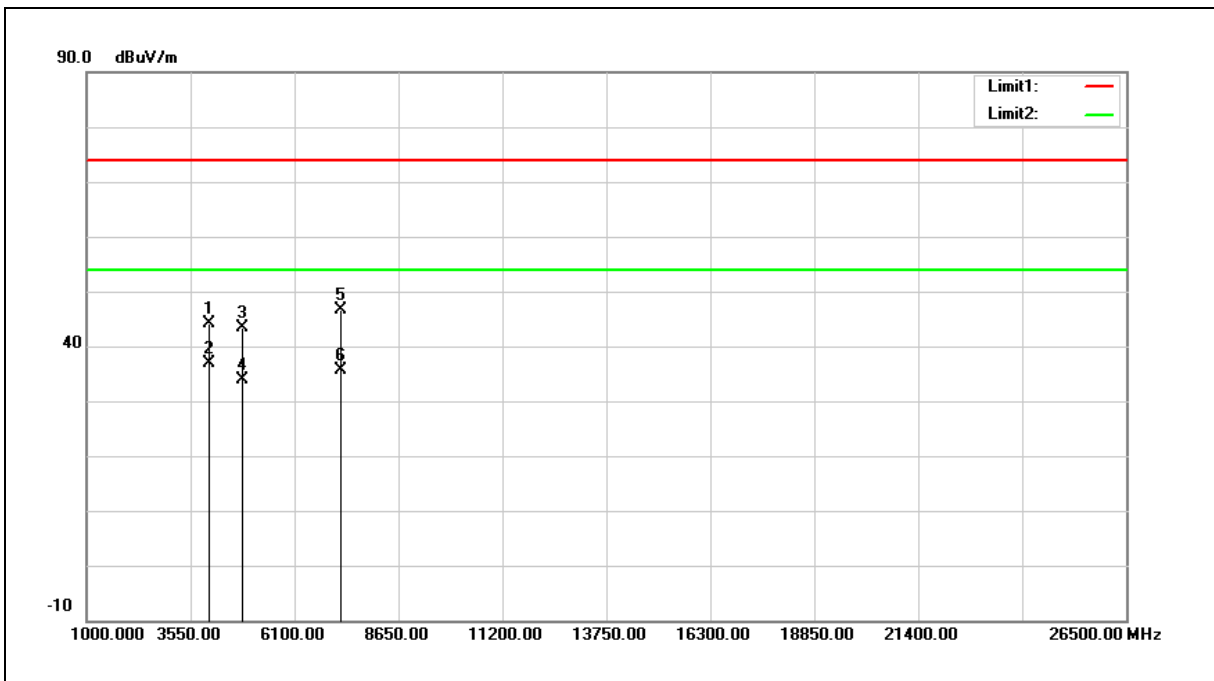
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4020.000	40.93	3.09	44.02	74.00	-29.98	peak
2	4020.000	33.71	3.09	36.80	54.00	-17.20	AVG
3	4824.000	38.05	5.37	43.42	74.00	-30.58	peak
4	4824.000	28.45	5.37	33.82	54.00	-20.18	AVG
5	7236.000	34.63	11.90	46.53	74.00	-27.47	peak
6	7236.000	23.77	11.90	35.67	54.00	-18.33	AVG

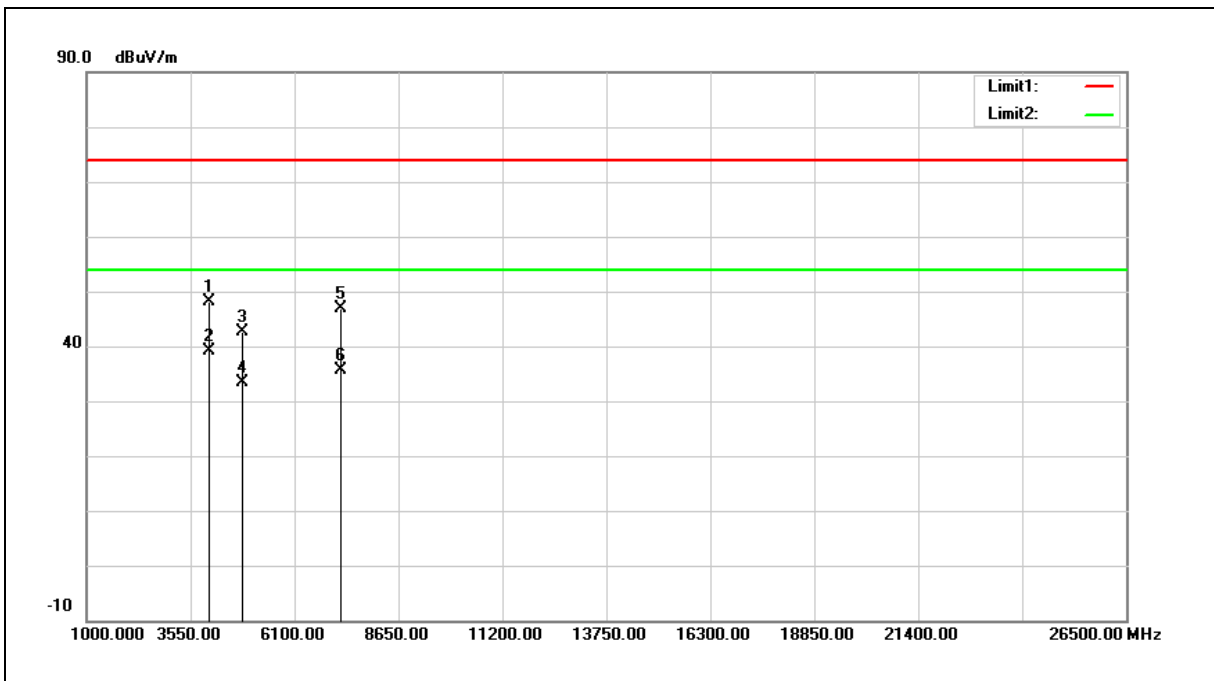
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4020.000	44.95	3.09	48.04	74.00	-25.96	peak
2	4020.000	36.16	3.09	39.25	54.00	-14.75	AVG
3	4824.000	37.34	5.37	42.71	74.00	-31.29	peak
4	4824.000	28.05	5.37	33.42	54.00	-20.58	AVG
5	7236.000	34.93	11.90	46.83	74.00	-27.17	peak
6	7236.000	23.69	11.90	35.59	54.00	-18.41	AVG

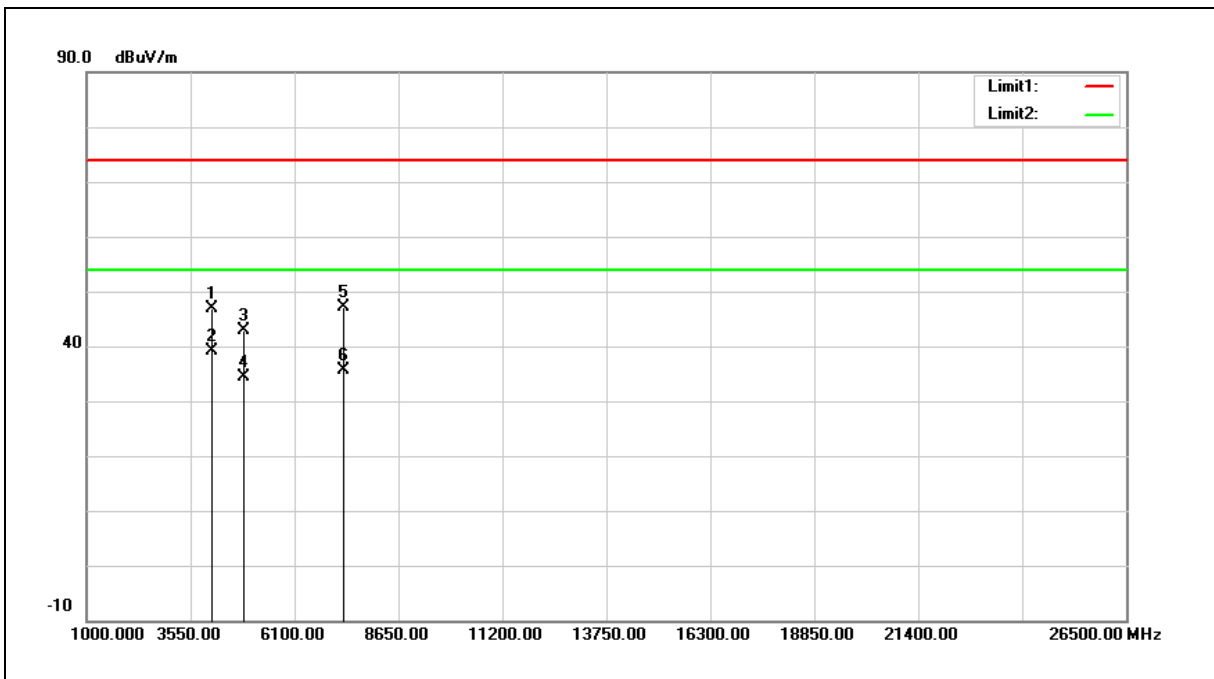
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

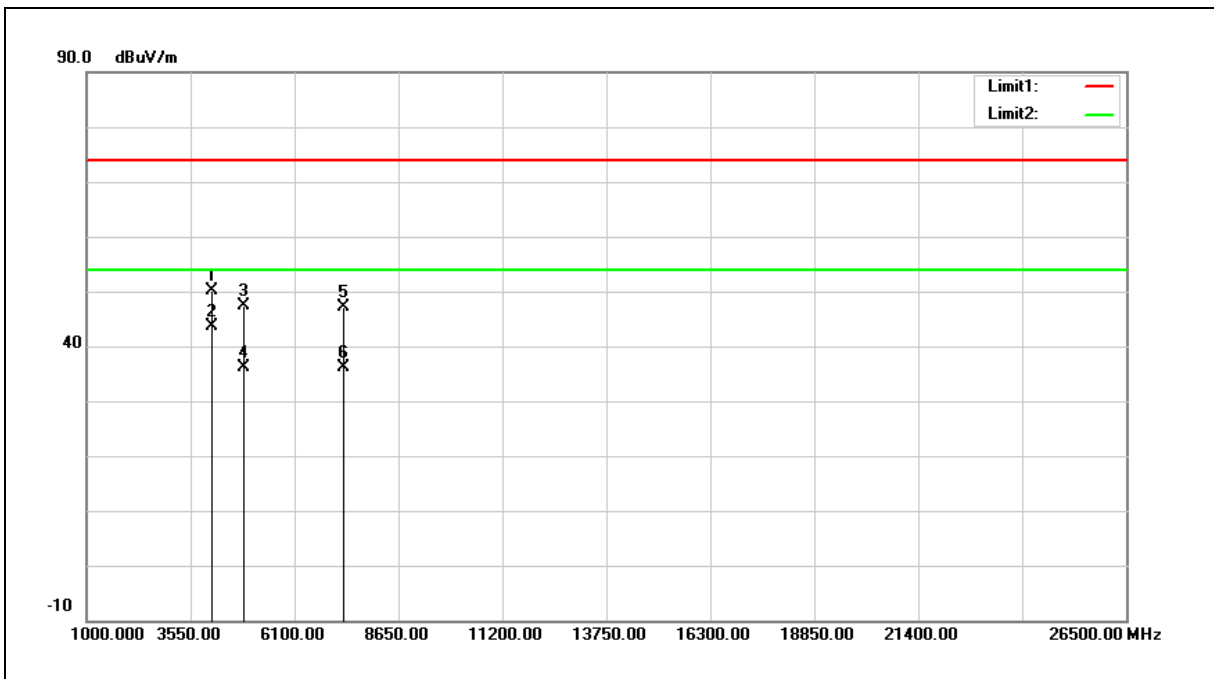


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4061.000	43.68	3.23	46.91	74.00	-27.09	peak
2	4061.000	35.81	3.23	39.04	54.00	-14.96	AVG
3	4874.000	37.38	5.47	42.85	74.00	-31.15	peak
4	4874.000	29.03	5.47	34.50	54.00	-19.50	AVG
5	7311.000	35.09	12.13	47.22	74.00	-26.78	peak
6	7311.000	23.58	12.13	35.71	54.00	-18.29	AVG

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4061.000	46.79	3.23	50.02	74.00	-23.98	peak
2	4061.000	40.32	3.23	43.55	54.00	-10.45	AVG
3	4874.000	41.80	5.47	47.27	74.00	-26.73	peak
4	4874.000	30.76	5.47	36.23	54.00	-17.77	AVG
5	7311.000	35.00	12.13	47.13	74.00	-26.87	peak
6	7311.000	23.98	12.13	36.11	54.00	-17.89	AVG

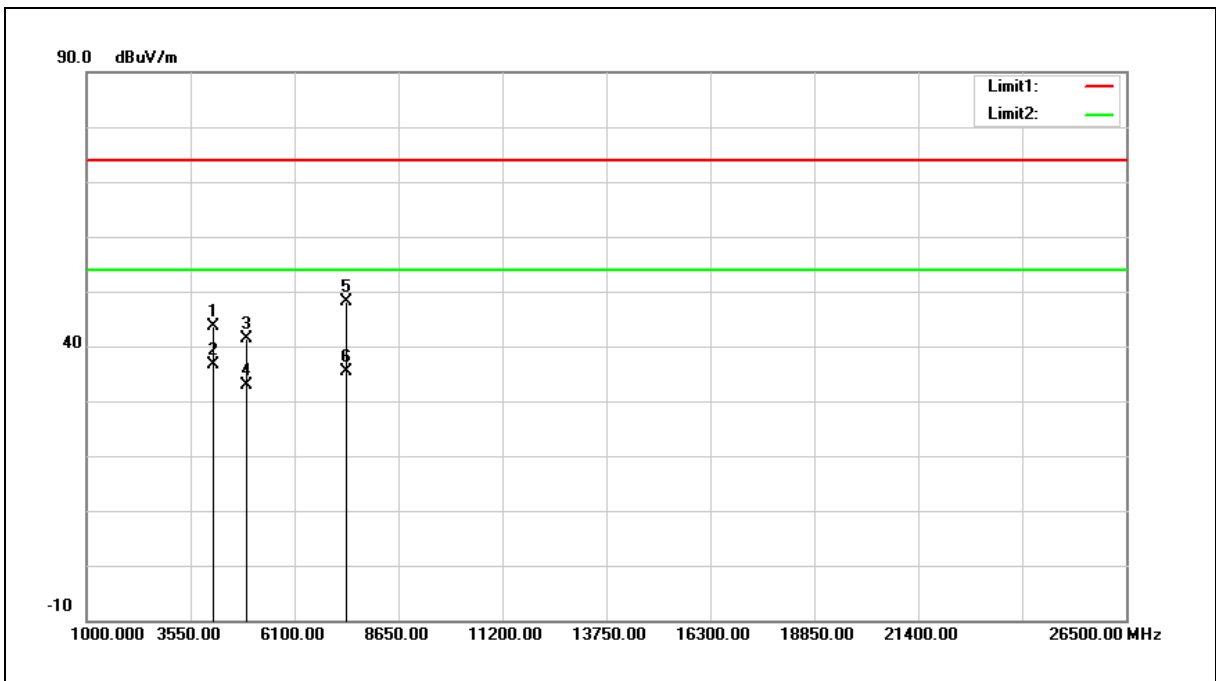
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

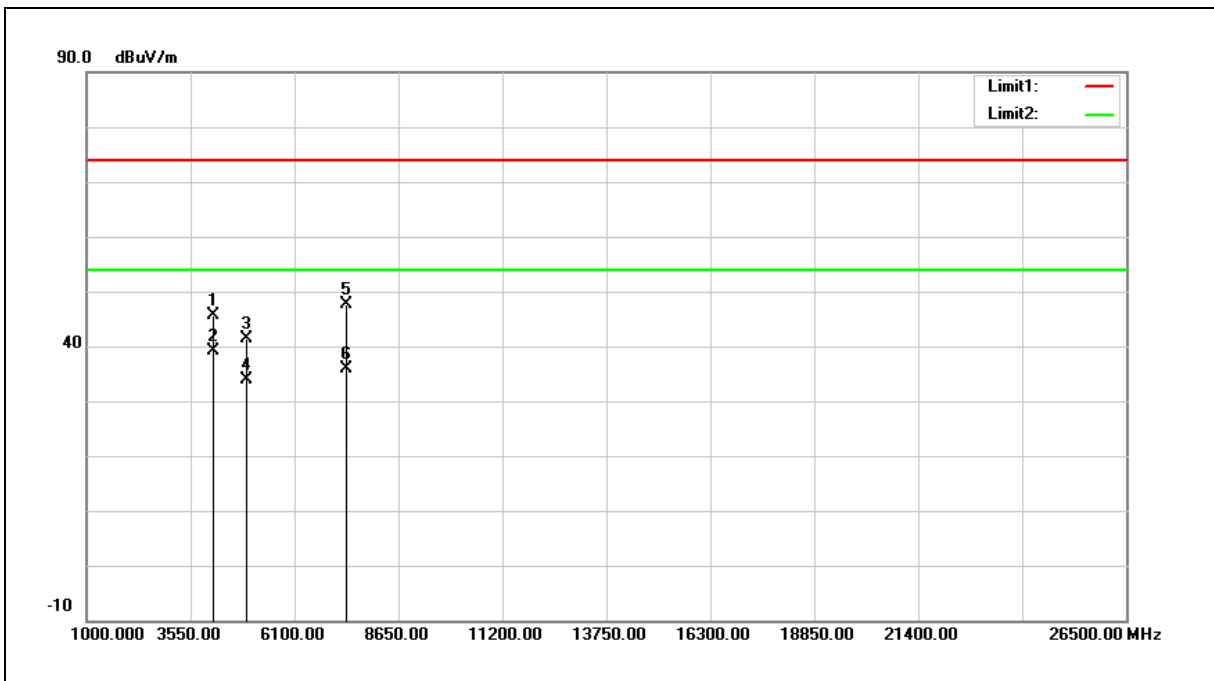


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4103.000	40.21	3.38	43.59	74.00	-30.41	peak
2	4103.000	33.30	3.38	36.68	54.00	-17.32	AVG
3	4924.000	35.71	5.58	41.29	74.00	-32.71	peak
4	4924.000	27.22	5.58	32.80	54.00	-21.20	AVG
5	7386.000	35.66	12.36	48.02	74.00	-25.98	peak
6	7386.000	23.09	12.36	35.45	54.00	-18.55	AVG

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4103.000	42.34	3.38	45.72	74.00	-28.28	peak
2	4103.000	35.72	3.38	39.10	54.00	-14.90	AVG
3	4924.000	35.78	5.58	41.36	74.00	-32.64	peak
4	4924.000	28.21	5.58	33.79	54.00	-20.21	AVG
5	7386.000	35.30	12.36	47.66	74.00	-26.34	peak
6	7386.000	23.63	12.36	35.99	54.00	-18.01	AVG

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

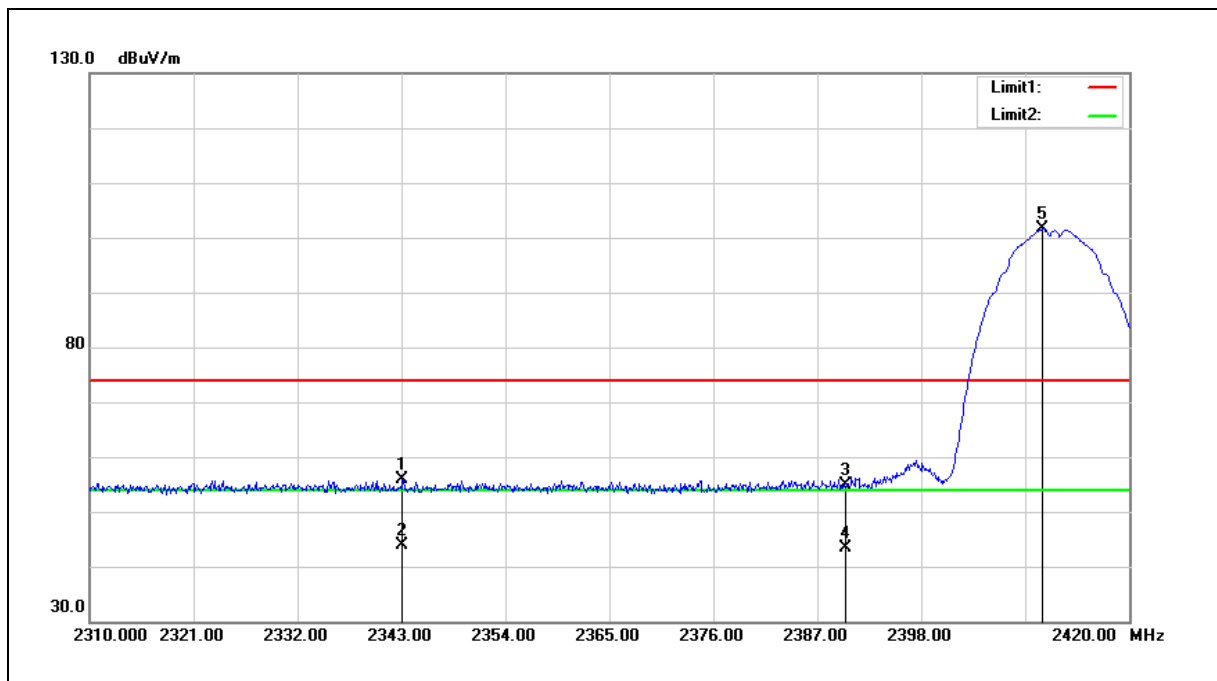
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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



Band Edge

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2343.110	57.21	-1.34	55.87	74.00	-18.13	peak
2	2343.110	45.24	-1.34	43.90	54.00	-10.10	AVG
3	2390.000	56.16	-1.17	54.99	74.00	-19.01	peak
4	2390.000	44.55	-1.17	43.38	54.00	-10.62	AVG
5	2410.870	102.65	-1.09	101.56	--	--	peak

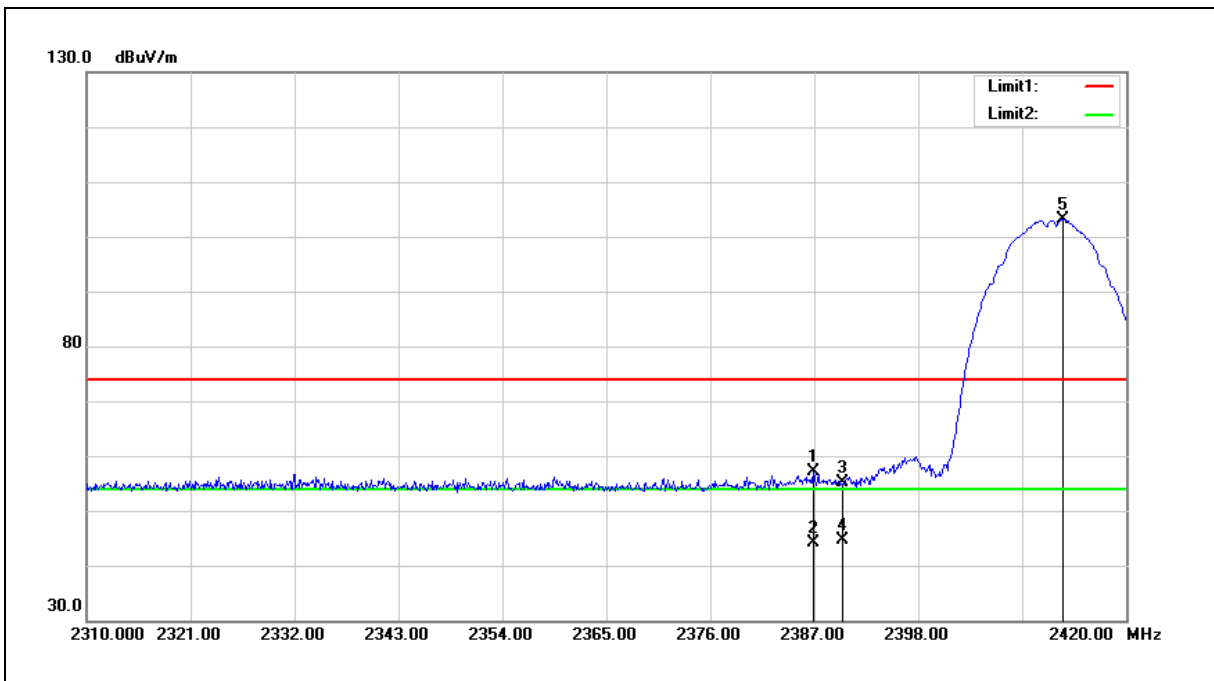
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.890	58.26	-1.17	57.09	74.00	-16.91	peak
2	2386.890	45.21	-1.17	44.04	54.00	-9.96	AVG
3	2390.000	56.19	-1.17	55.02	74.00	-18.98	peak
4	2390.000	45.79	-1.17	44.62	54.00	-9.38	AVG
5	2413.290	104.23	-1.08	103.15	--	--	peak

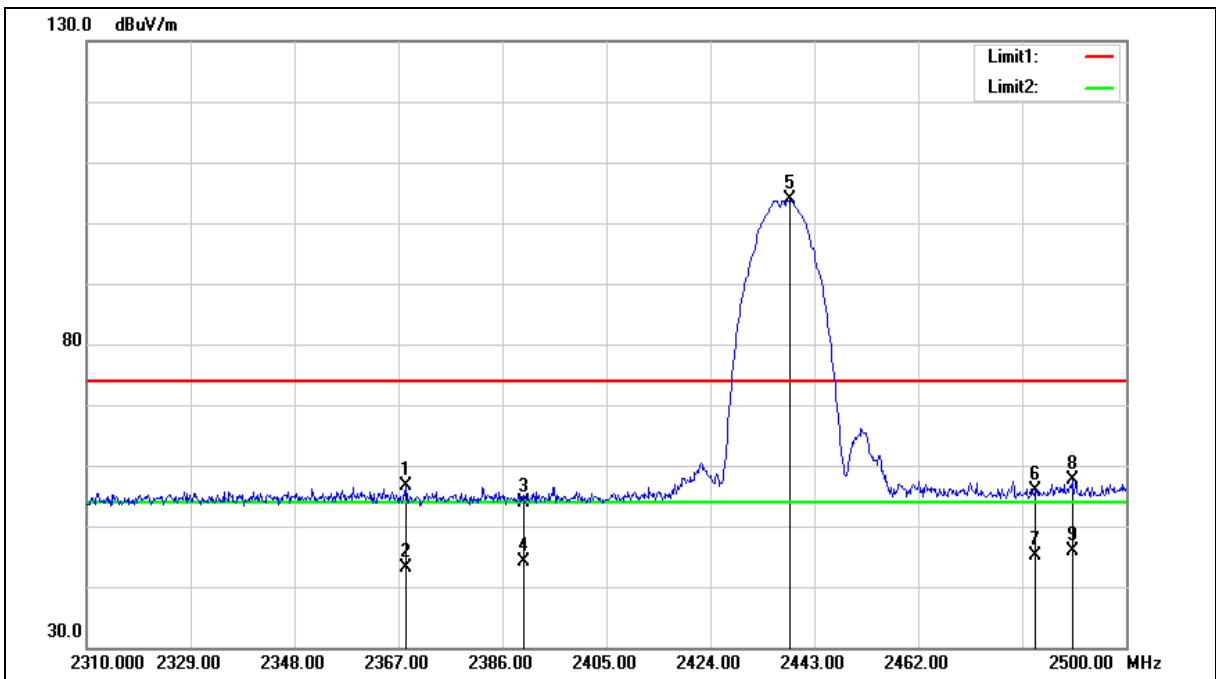
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2368.330	57.78	-1.24	56.54	74.00	-17.46	peak
2	2368.330	44.46	-1.24	43.22	54.00	-10.78	AVG
3	2390.000	55.16	-1.17	53.99	74.00	-20.01	peak
4	2390.000	45.38	-1.17	44.21	54.00	-9.79	AVG
5	2438.440	104.79	-0.98	103.81	--	--	peak
6	2483.500	56.69	-0.82	55.87	74.00	-18.13	peak
7	2483.500	45.93	-0.82	45.11	54.00	-8.89	AVG
8	2490.120	58.55	-0.80	57.75	74.00	-16.25	peak
9	2490.120	46.75	-0.80	45.95	54.00	-8.05	AVG

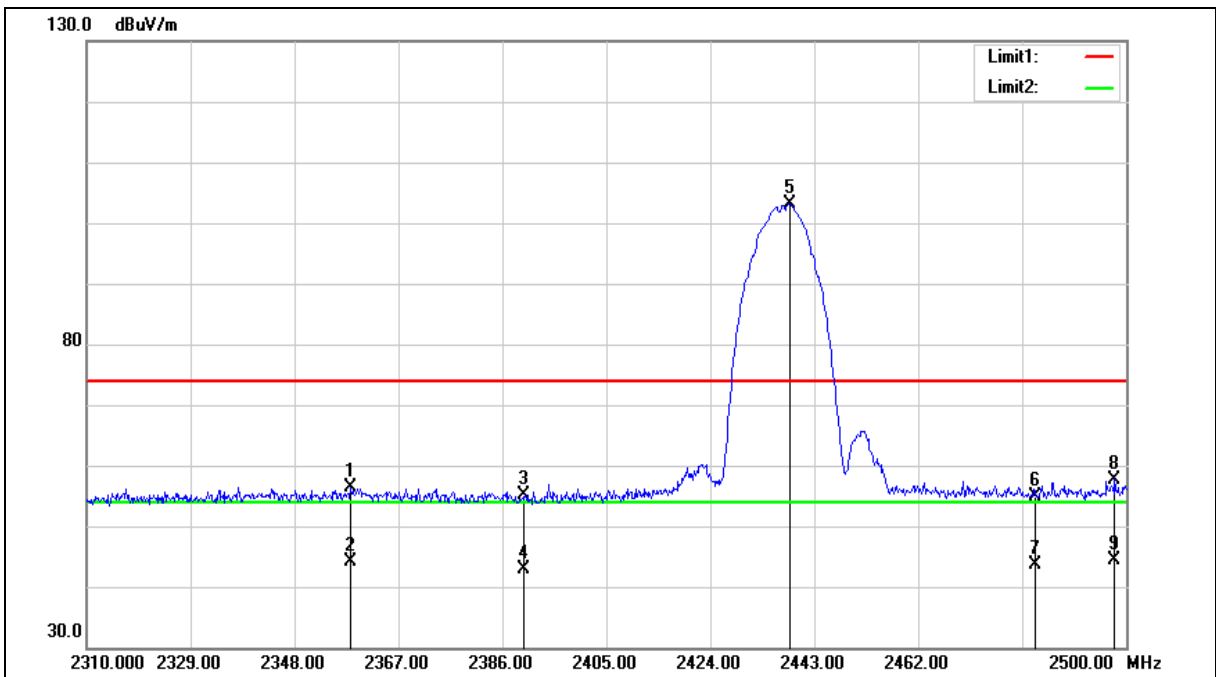
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2358.260	57.61	-1.28	56.33	74.00	-17.67	peak
2	2358.260	45.45	-1.28	44.17	54.00	-9.83	AVG
3	2390.000	56.31	-1.17	55.14	74.00	-18.86	peak
4	2390.000	44.05	-1.17	42.88	54.00	-11.12	AVG
5	2438.440	104.08	-0.98	103.10	--	--	peak
6	2483.500	55.61	-0.82	54.79	74.00	-19.21	peak
7	2483.500	44.43	-0.82	43.61	54.00	-10.39	AVG
8	2497.910	58.52	-0.77	57.75	74.00	-16.25	peak
9	2497.910	45.08	-0.77	44.31	54.00	-9.69	AVG

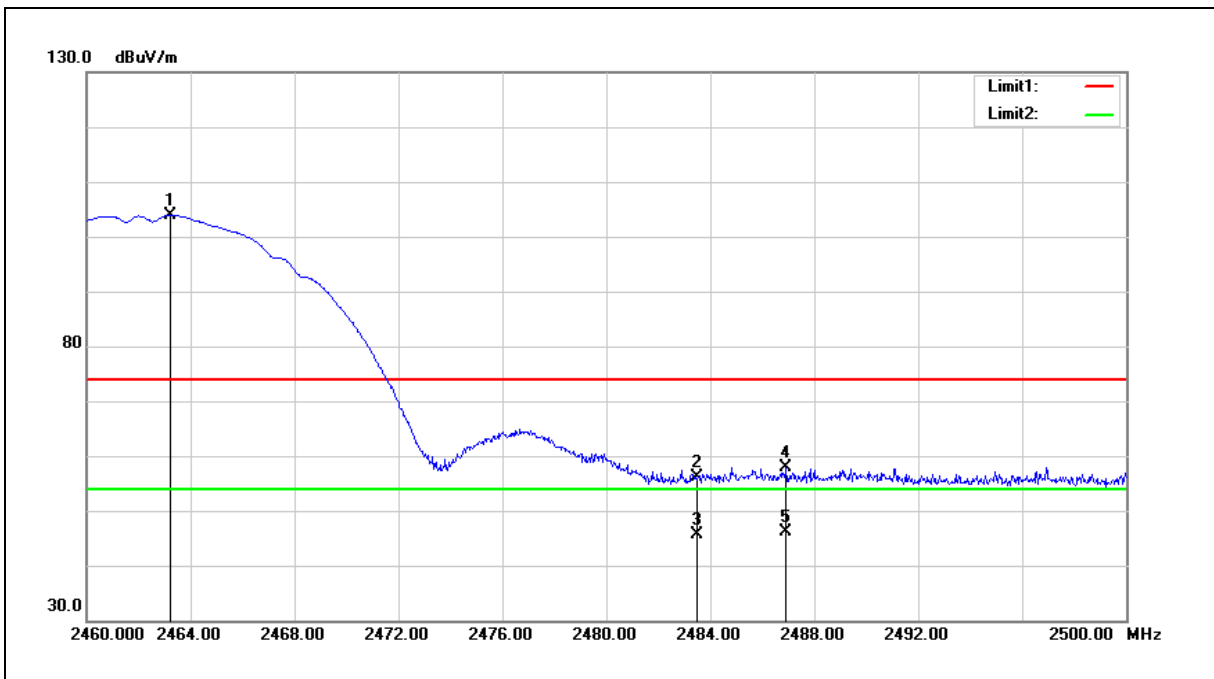
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.240	104.82	-0.90	103.92	--	--	peak
2	2483.500	57.00	-0.82	56.18	74.00	-17.82	peak
3	2483.500	46.46	-0.82	45.64	54.00	-8.36	AVG
4	2486.920	58.77	-0.81	57.96	74.00	-16.04	peak
5	2486.920	47.01	-0.81	46.20	54.00	-7.80	AVG

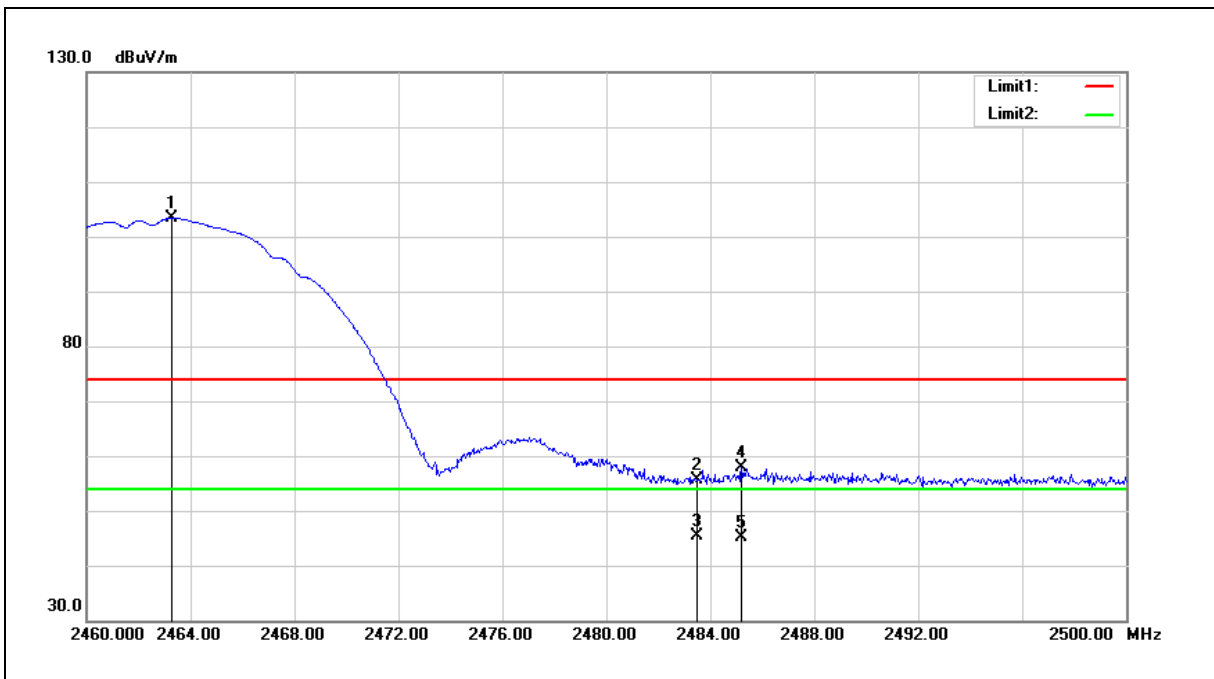
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.280	104.29	-0.90	103.39	--	--	peak
2	2483.500	56.42	-0.82	55.60	74.00	-18.40	peak
3	2483.500	46.10	-0.82	45.28	54.00	-8.72	AVG
4	2485.200	58.80	-0.82	57.98	74.00	-16.02	peak
5	2485.200	45.94	-0.82	45.12	54.00	-8.88	AVG

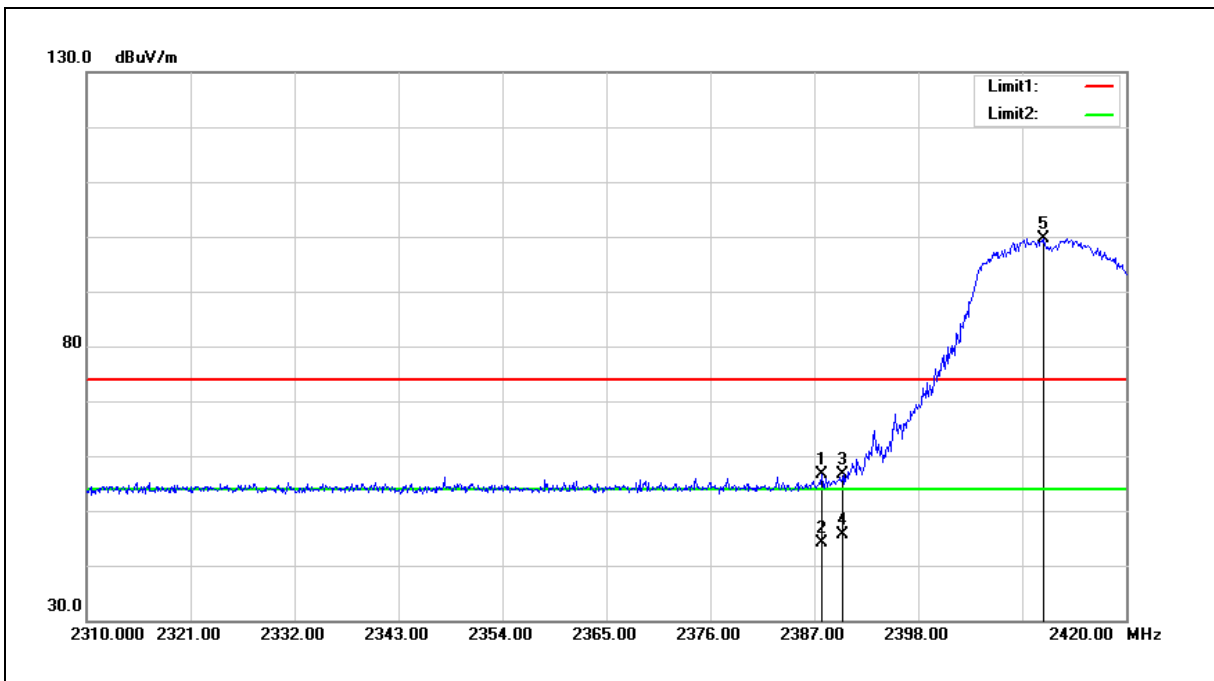
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.770	57.83	-1.17	56.66	74.00	-17.34	peak
2	2387.770	45.38	-1.17	44.21	54.00	-9.79	AVG
3	2390.000	57.86	-1.17	56.69	74.00	-17.31	peak
4	2390.000	46.79	-1.17	45.62	54.00	-8.38	AVG
5	2411.200	100.80	-1.08	99.72	--	--	peak

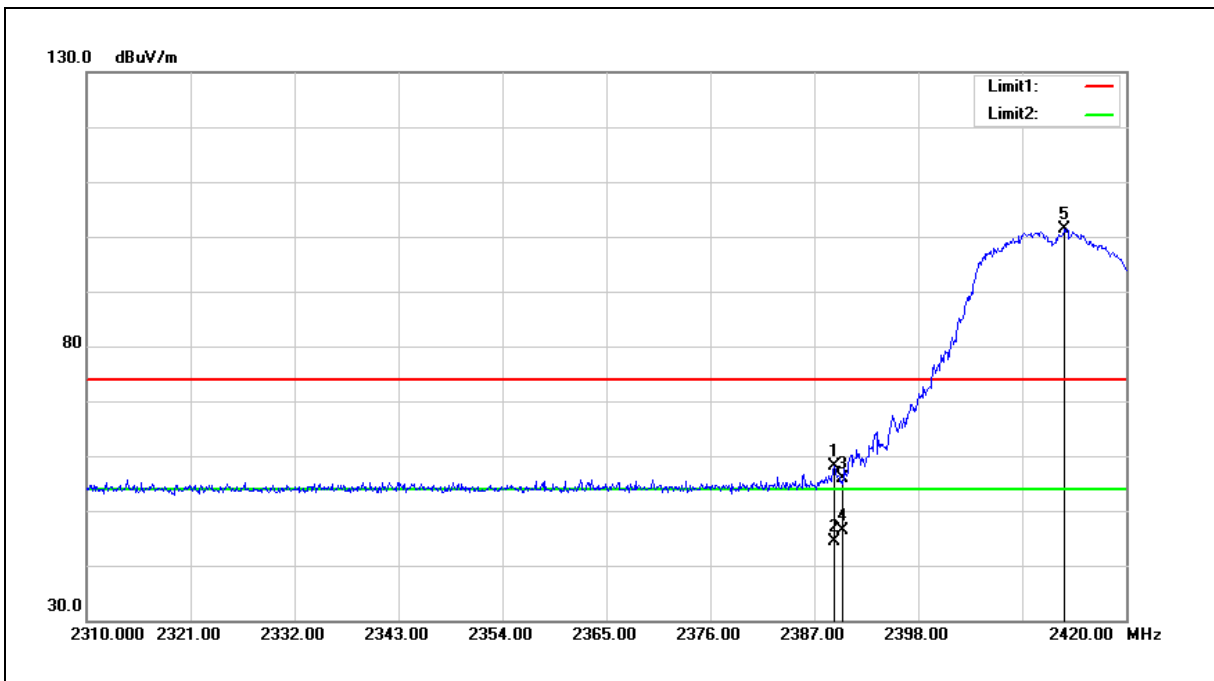
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.090	59.40	-1.17	58.23	74.00	-15.77	peak
2	2389.090	45.64	-1.17	44.47	54.00	-9.53	AVG
3	2390.000	57.03	-1.17	55.86	74.00	-18.14	peak
4	2390.000	47.56	-1.17	46.39	54.00	-7.61	AVG
5	2413.510	102.44	-1.07	101.37	--	--	peak

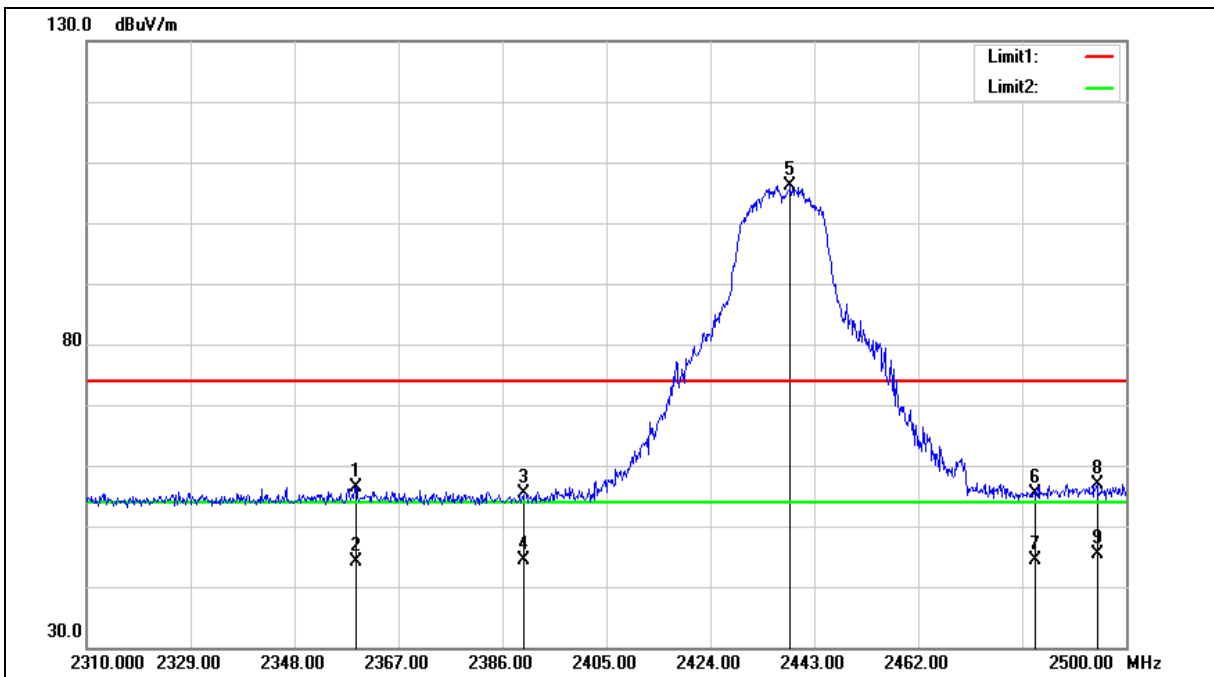
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2359.210	57.77	-1.28	56.49	74.00	-17.51	peak
2	2359.210	45.45	-1.28	44.17	54.00	-9.83	AVG
3	2390.000	56.46	-1.17	55.29	74.00	-18.71	peak
4	2390.000	45.66	-1.17	44.49	54.00	-9.51	AVG
5	2438.630	107.11	-0.98	106.13	--	--	peak
6	2483.500	56.21	-0.82	55.39	74.00	-18.61	peak
7	2483.500	45.17	-0.82	44.35	54.00	-9.65	AVG
8	2494.680	57.60	-0.78	56.82	74.00	-17.18	peak
9	2494.680	46.28	-0.78	45.50	54.00	-8.50	AVG

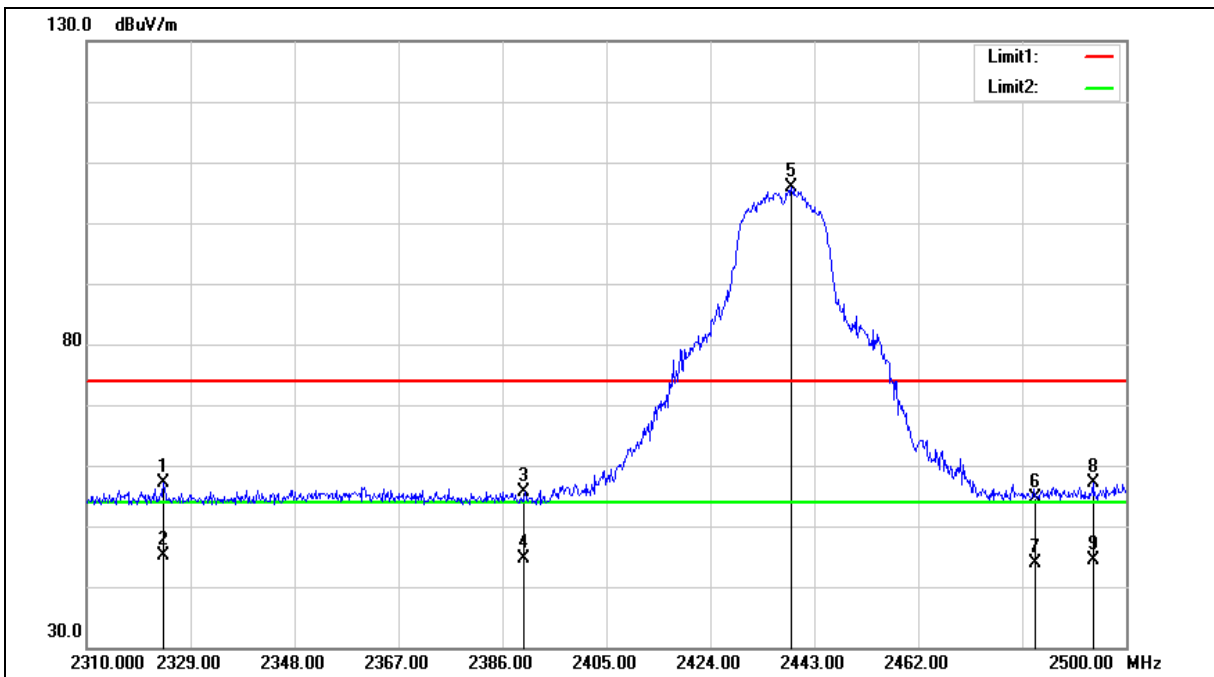
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2324.060	58.61	-1.41	57.20	74.00	-16.80	peak
2	2324.060	46.65	-1.41	45.24	54.00	-8.76	AVG
3	2390.000	56.74	-1.17	55.57	74.00	-18.43	peak
4	2390.000	45.81	-1.17	44.64	54.00	-9.36	AVG
5	2438.820	106.81	-0.98	105.83	--	--	peak
6	2483.500	55.54	-0.82	54.72	74.00	-19.28	peak
7	2483.500	44.67	-0.82	43.85	54.00	-10.15	AVG
8	2493.920	57.81	-0.79	57.02	74.00	-16.98	peak
9	2493.920	45.25	-0.79	44.46	54.00	-9.54	AVG

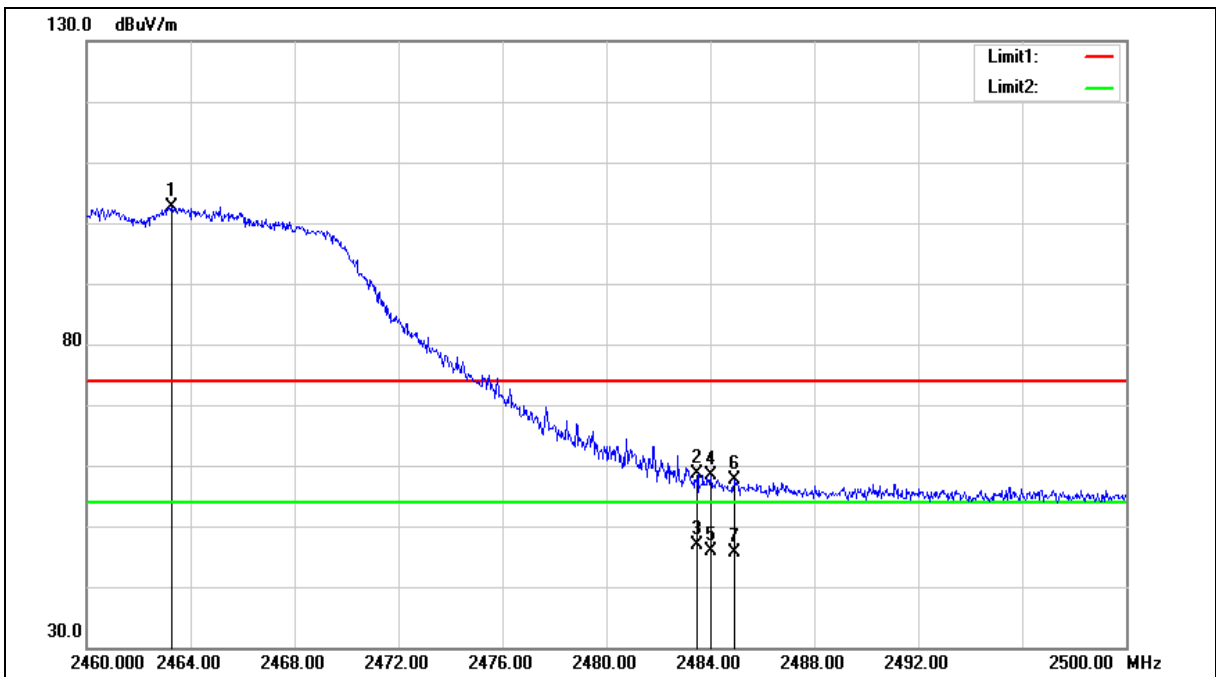
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.280	103.45	-0.90	102.55	--	--	peak
2	2483.500	59.38	-0.82	58.56	74.00	-15.44	peak
3	2483.500	47.64	-0.82	46.82	54.00	-7.18	AVG
4	2484.000	59.18	-0.82	58.36	74.00	-15.64	peak
5	2484.000	46.72	-0.82	45.90	54.00	-8.10	AVG
6	2484.920	58.52	-0.82	57.70	74.00	-16.30	peak
7	2484.920	46.42	-0.82	45.60	54.00	-8.40	AVG

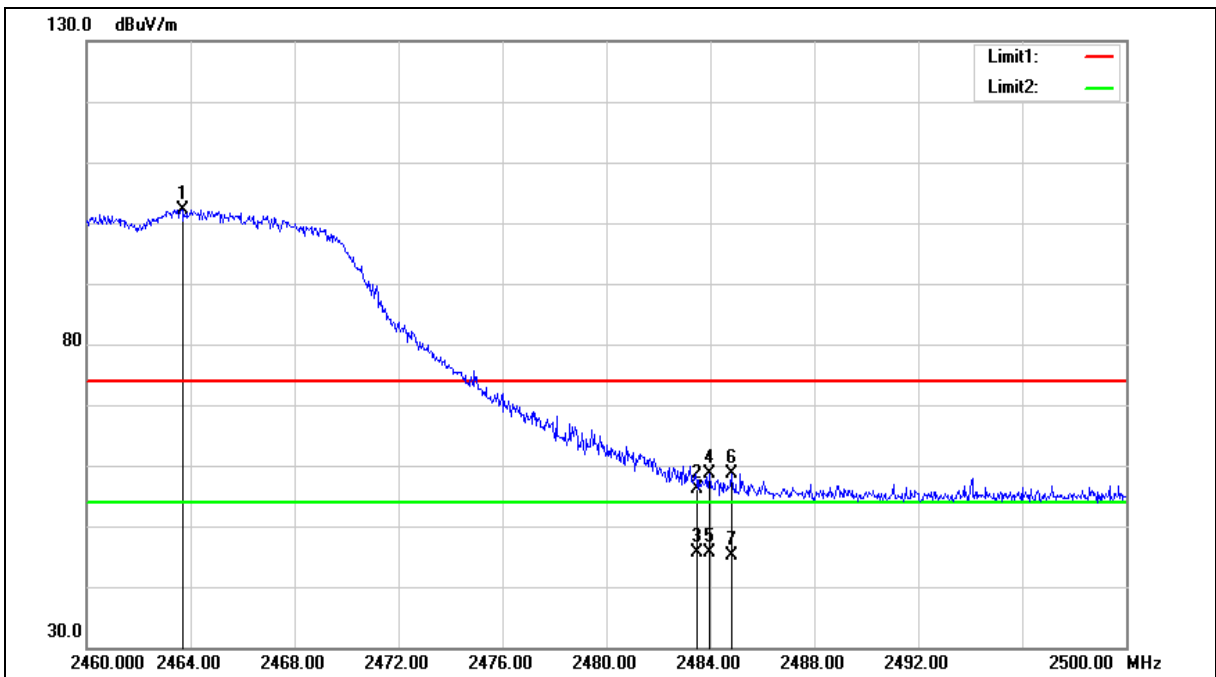
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.680	103.12	-0.89	102.23	--	--	peak
2	2483.500	57.02	-0.82	56.20	74.00	-17.80	peak
3	2483.500	46.53	-0.82	45.71	54.00	-8.29	AVG
4	2483.960	59.35	-0.82	58.53	74.00	-15.47	peak
5	2483.960	46.35	-0.82	45.53	54.00	-8.47	AVG
6	2484.800	59.47	-0.82	58.65	74.00	-15.35	peak
7	2484.800	46.03	-0.82	45.21	54.00	-8.79	AVG

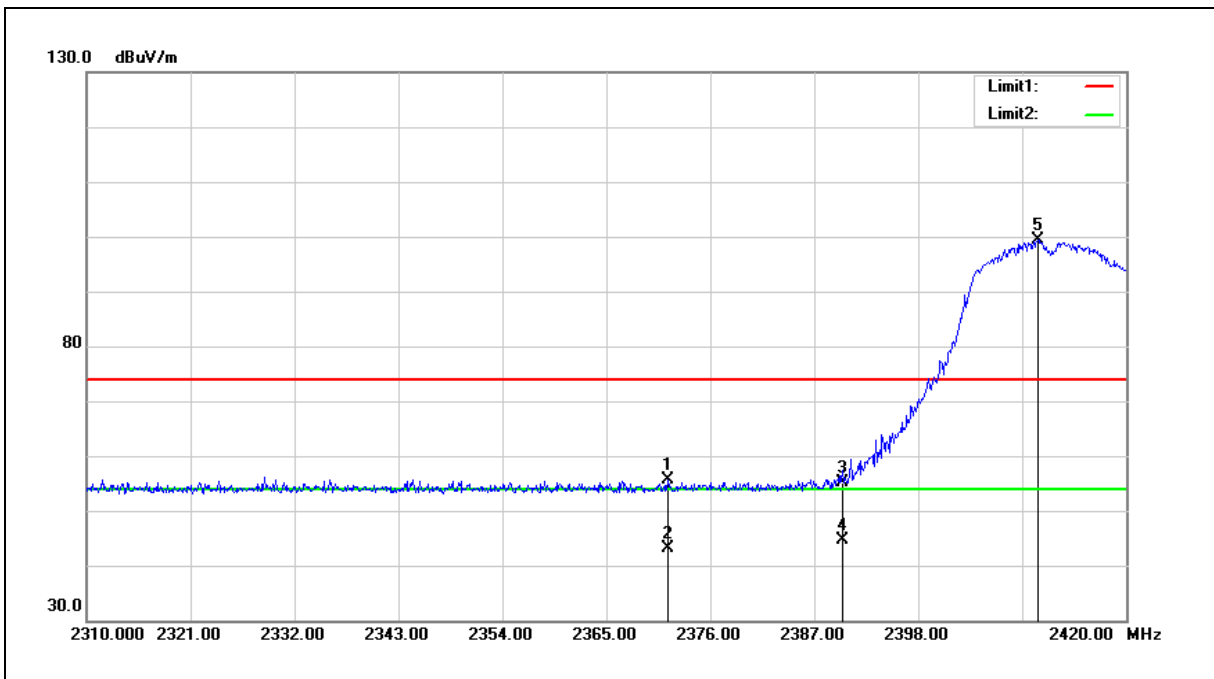
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2371.490	56.90	-1.22	55.68	74.00	-18.32	peak
2	2371.490	44.38	-1.22	43.16	54.00	-10.84	AVG
3	2390.000	56.34	-1.17	55.17	74.00	-18.83	peak
4	2390.000	45.77	-1.17	44.60	54.00	-9.40	AVG
5	2410.650	100.54	-1.09	99.45	--	--	peak

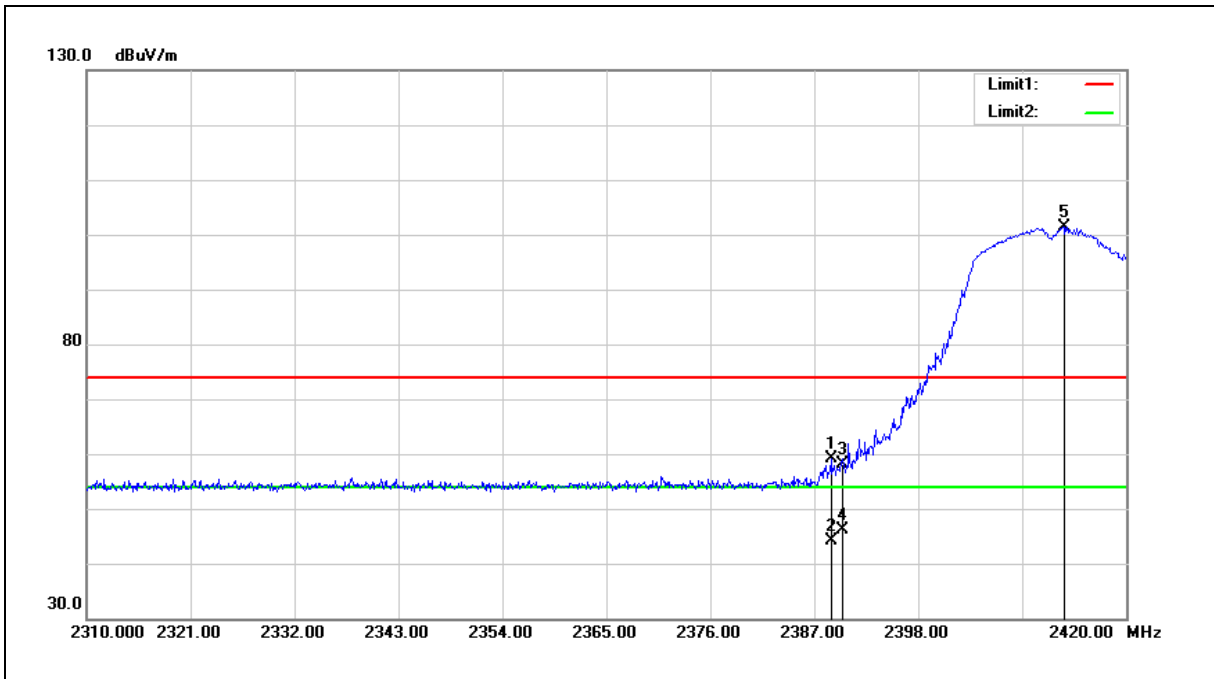
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.760	60.24	-1.17	59.07	74.00	-14.93	peak
2	2388.760	45.20	-1.17	44.03	54.00	-9.97	AVG
3	2390.000	59.18	-1.17	58.01	74.00	-15.99	peak
4	2390.000	47.35	-1.17	46.18	54.00	-7.82	AVG
5	2413.400	102.51	-1.08	101.43	--	--	peak

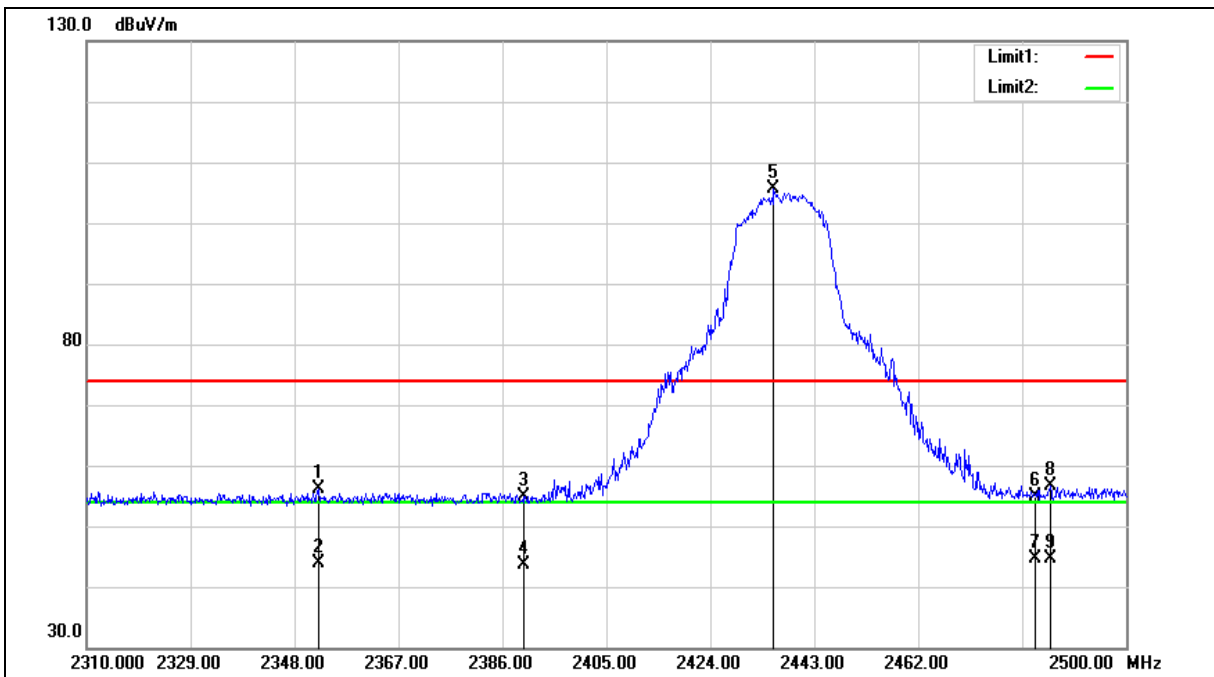
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2352.370	57.35	-1.29	56.06	74.00	-17.94	peak
2	2352.370	45.22	-1.29	43.93	54.00	-10.07	AVG
3	2390.000	56.09	-1.17	54.92	74.00	-19.08	peak
4	2390.000	44.70	-1.17	43.53	54.00	-10.47	AVG
5	2435.590	106.52	-1.00	105.52	--	--	peak
6	2483.500	55.77	-0.82	54.95	74.00	-19.05	peak
7	2483.500	45.39	-0.82	44.57	54.00	-9.43	AVG
8	2486.130	57.43	-0.82	56.61	74.00	-17.39	peak
9	2486.130	45.42	-0.82	44.60	54.00	-9.40	AVG

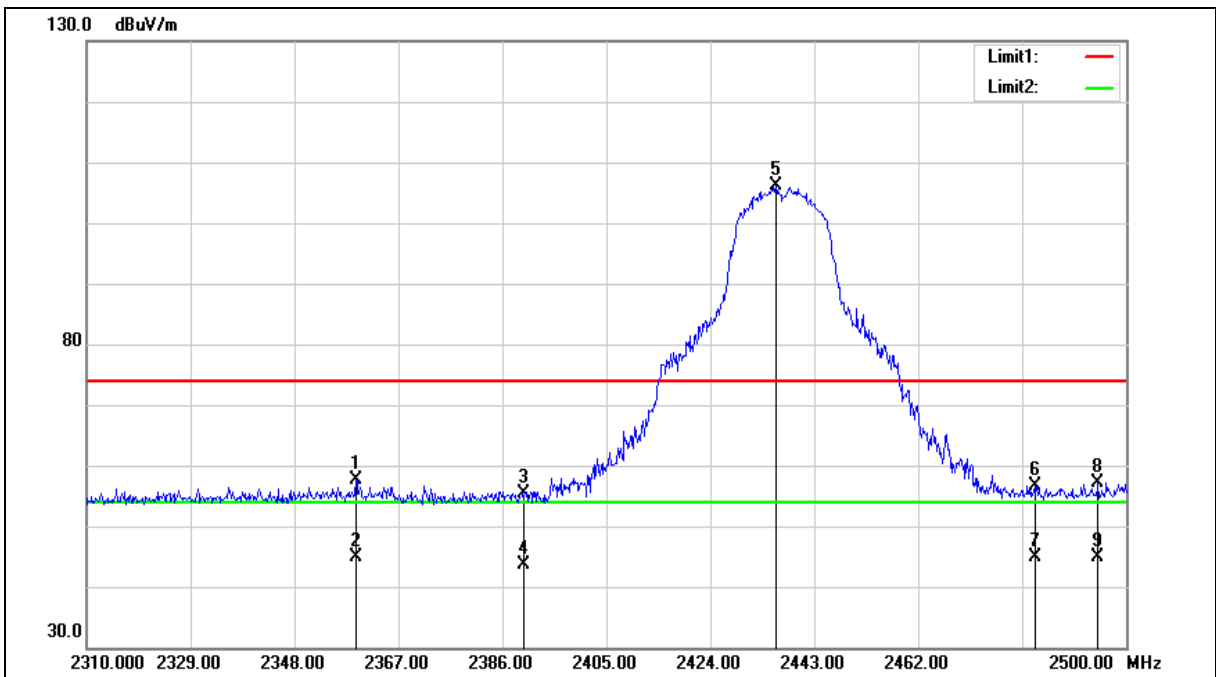
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2359.210	59.02	-1.28	57.74	74.00	-16.26	peak
2	2359.210	46.04	-1.28	44.76	54.00	-9.24	AVG
3	2390.000	56.57	-1.17	55.40	74.00	-18.60	peak
4	2390.000	44.68	-1.17	43.51	54.00	-10.49	AVG
5	2435.970	107.04	-1.00	106.04	--	--	peak
6	2483.500	57.36	-0.82	56.54	74.00	-17.46	peak
7	2483.500	45.58	-0.82	44.76	54.00	-9.24	AVG
8	2494.870	57.95	-0.78	57.17	74.00	-16.83	peak
9	2494.870	45.72	-0.78	44.94	54.00	-9.06	AVG

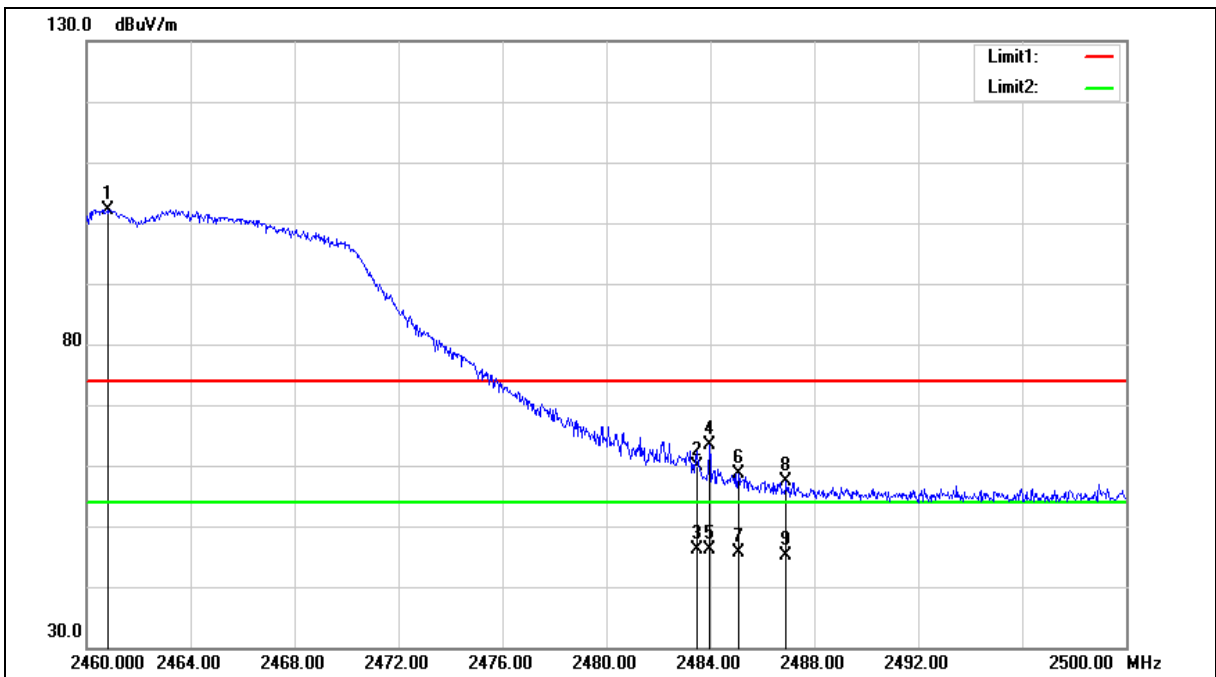
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.840	103.11	-0.91	102.20	--	--	peak
2	2483.500	60.63	-0.82	59.81	74.00	-14.19	peak
3	2483.500	46.97	-0.82	46.15	54.00	-7.85	AVG
4	2483.960	64.23	-0.82	63.41	74.00	-10.59	peak
5	2483.960	47.02	-0.82	46.20	54.00	-7.80	AVG
6	2485.080	59.47	-0.82	58.65	74.00	-15.35	peak
7	2485.080	46.33	-0.82	45.51	54.00	-8.49	AVG
8	2486.920	58.24	-0.81	57.43	74.00	-16.57	peak
9	2486.920	45.98	-0.81	45.17	54.00	-8.83	AVG

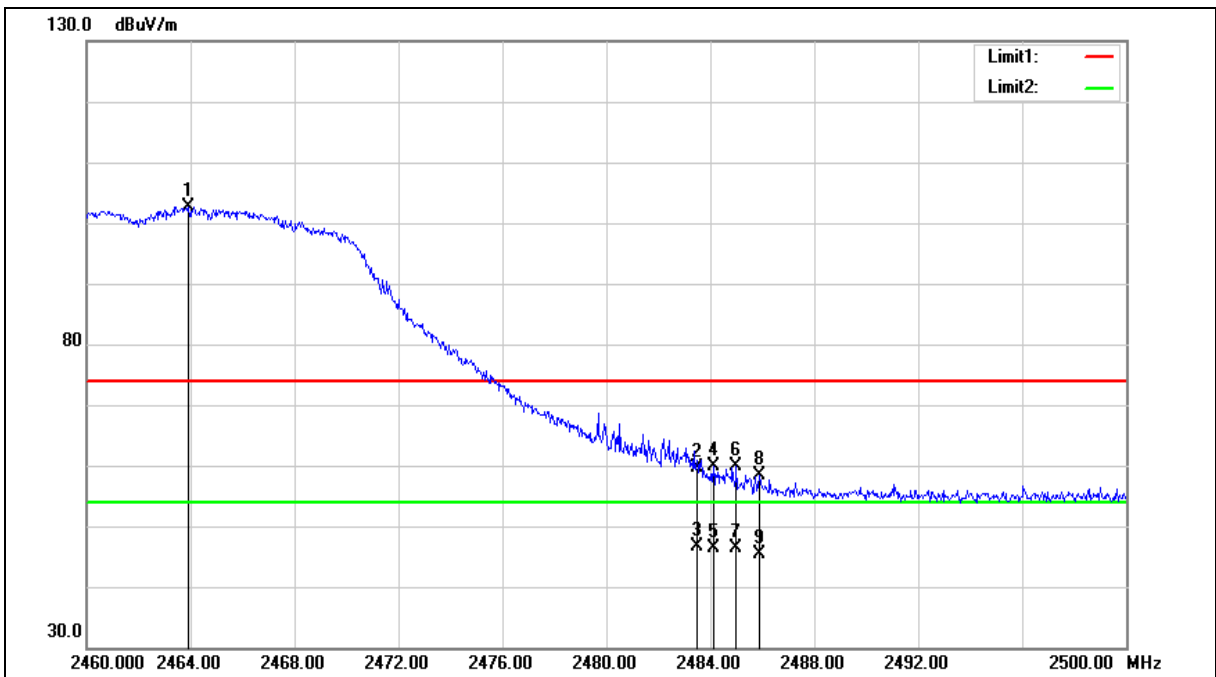
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.65 V
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.920	103.46	-0.89	102.57	--	--	peak
2	2483.500	60.49	-0.82	59.67	74.00	-14.33	peak
3	2483.500	47.34	-0.82	46.52	54.00	-7.48	AVG
4	2484.120	60.59	-0.82	59.77	74.00	-14.23	peak
5	2484.120	47.18	-0.82	46.36	54.00	-7.64	AVG
6	2485.000	60.59	-0.82	59.77	74.00	-14.23	peak
7	2485.000	47.10	-0.82	46.28	54.00	-7.72	AVG
8	2485.880	59.23	-0.82	58.41	74.00	-15.59	peak
9	2485.880	46.19	-0.82	45.37	54.00	-8.63	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.