RF Test Report

Applicant	:	Plasma Cloud Limited
Product Type	:	WiFi Access Point
Trade Name	:	Plasma Cloud
Model Number	:	PA300E
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART C ANSI C63.10:2013
Receive Date	:	Jul. 11, 2019
Test Period	:	Jul. 12 ~ Jul. 20, 2019
Issue Date	:	Jul. 29, 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

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.	Issue Date	Revisions	Revised By
00	Jul. 29, 2019	Initial Issue	Tobey Cheng

Verification of Compliance

Issued Date: Jul. 29, 2019

Applicant	:	Plasma Cloud Limited
Product Type	:	WiFi Access Point
Trade Name	:	Plasma Cloud
Model Number	:	PA300E
FCC ID	:	2ASXXPA300E
EUT Rated Voltage	:	DC 12-24 V, 1 A (DC Power Adapter) DC 24 V, 1 A (passive PoE injector) DC 48-54 V, 0.5 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	:	Fly Lu	Reviewed By	:	Ken Yang
(Manager)		(Fly Lu)	(Testing Engineer)		(Ken Yang)

TABLE OF CONTENTS

1 General Information 5
1.1. Summary of Test Result 5
1.2. Measurement Uncertainty 6
2 EUT Description 7
3 Test Methodology 8
3.1. Mode of Operation 8
3.2. EUT Test Step 11
3.3. Configuration of Test System Details 12
3.4. Test Instruments 13
3.5. Test Site Environment 14
4 Measurement Procedure 15
4.1. AC Power Line Conducted Emission Measurement 15
4.2. Radiated Emission Measurement 17
4.3. Maximum Conducted Output Power Measurement 21
4.4. 6 dB RF Bandwidth Measurement 22
4.5. Maximum Power Density Measurement 23
4.6. Out of Band Conducted Emissions Measurement 25
4.7. Antenna Measurement 26
5 Test Results 27
Annex A. Conducted Emission 27
Annex B. Conducted Test Results 29
Annex C. Radiated Emission Measurement 72

1 General Information

1.1. Summary of Test Result

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

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

1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	150 kHz ~ 30 MHz	2.8
Radiated Emission	9 kHz ~ 30 MHz	1.7
	30 MHz ~ 1000 MHz	5.7
	1000 MHz ~ 18000 MHz	5.6
	18000 MHz ~ 26500 MHz	4.9
	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	

Decision Rule

■ Uncertainty is not included.

□ Uncertainty is included.

2 EUT Description

Applicant	Plasma Cloud Limited 5/F, Yat Chau Building 262 Des Voeux Road Central Hong Kong				
Manufacturer	Emplus Technologies, Inc. Bldg. B, 10F., No.209, Sec. 1, Nangang Rd., Nangang Dist., Taipei City 11568, Taiwan				
Product Type	WiFi Access Point				
Trade Name	Plasma Cloud				
Model Number	PA300E				
FCC ID	2ASXXPA300E				
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 173.4 Mbps
IEEE 802.11n 2.4 GHz 40 MHz	2422 ~ 2452		OFDM	40 MHz	Up to 400 Mbps
Antenna information	ANT	Manufacturer	Model Number	Type	Max. Gain (dBi)
	ANT-0	Master Wave	98143MRSX002	Dipole Antenna (Reverse SMA)	1.93
	ANT-1	Master Wave	98143MRSX002	Dipole Antenna (Reverse SMA)	1.93
Antenna Delivery	See section 3.1				
Operate Temp. Range	0 ~ +40 ℃				

Frequency Band	Max. RF Output Power (W)
IEEE 802.11b	0.399
IEEE 802.11g	0.363
IEEE 802.11n 2.4 GHz 20 MHz	0.372
IEEE 802.11n 2.4 GHz 40 MHz	0.401

3 Test Methodology

3.1. Mode of Operation

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

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

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

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

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

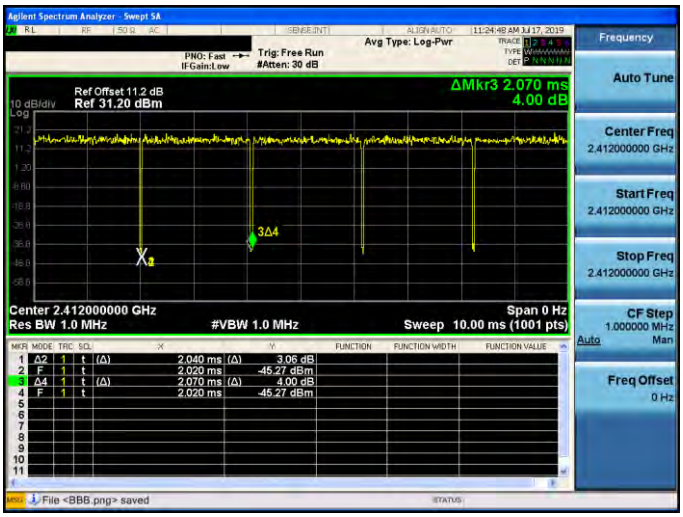
Test Mode	Antenna Delivery	Data Rate (Mbps)	Test Channel
Mode 2	2TX(CDD)	1	1, 6, 11
Mode 3	2TX(CDD)	6	1, 6, 11
Mode 4	2TX(CDD)	13	1, 6, 11
Mode 5	2TX(CDD)	27	3, 6, 9

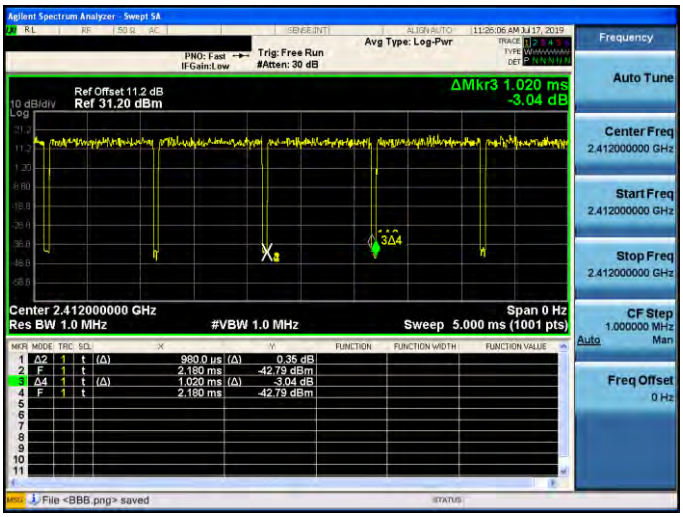
Duty cycle

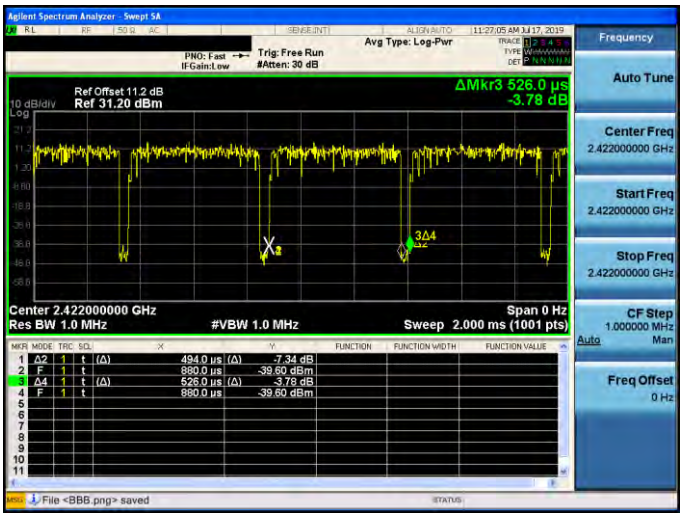
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2	2412.0	10.000	10.000	1.000	0.000	0.010
Mode 3	2412.0	2.040	2.070	0.986	0.063	0.010
Mode 4	2412.0	0.980	1.020	0.961	0.174	1.020
Mode 5	2422.0	0.494	0.526	0.939	0.273	2.024

Duty Cycle Graphs

Mode 2: IEEE 802.11b Continuous TX mode


Mode 3: IEEE 802.11g Continuous TX mode


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


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


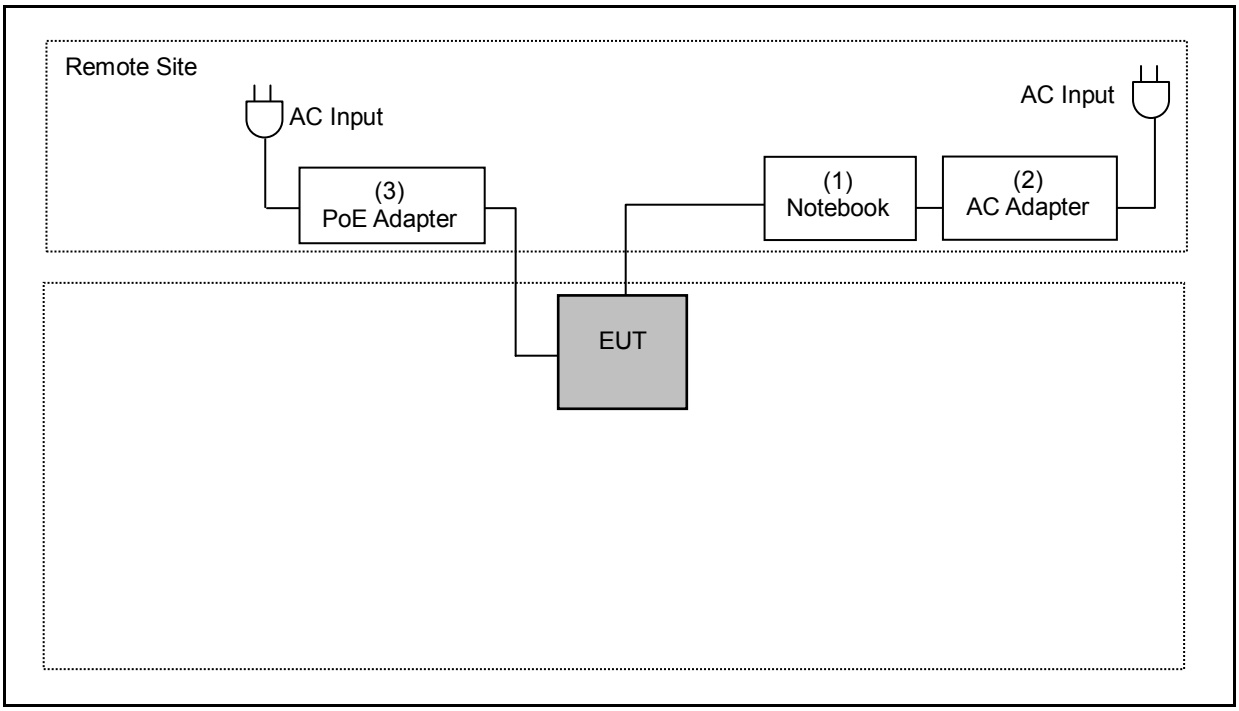
3.2. EUT Test Step

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

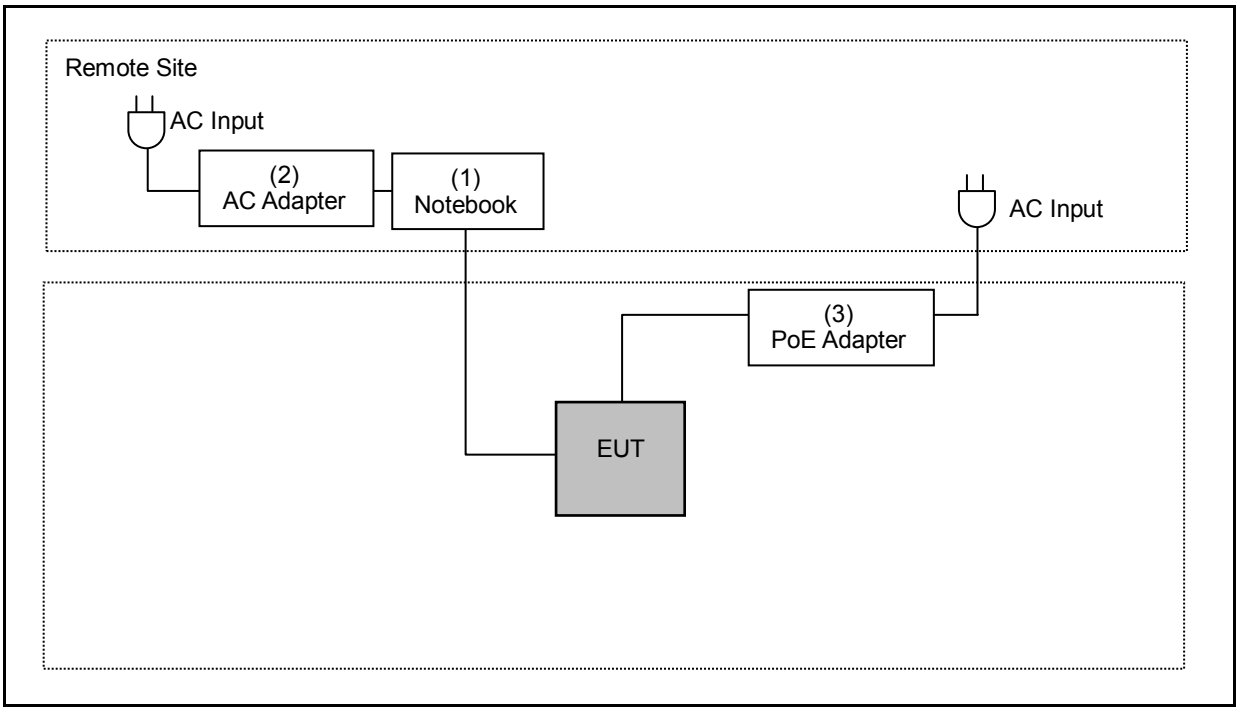
Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

3.3. Configuration of Test System Details

Conducted Emissions



Radiated Emissions



Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	DELL	LATITUDE E5440	BRTQXY1	---
(2)	AC Adapter	DELL	HA65NM130	---	Non-Shielded, 0.8 m
(3)	PoE Adapter	EnGenius	EPA2406GR	177214704	Non-Shielded, 1.0 m

3.4. Test Instruments

For Conducted Emission

Test Period: Jul. 20, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/21/2019	1 year
LISN	R&S	ENV216	101040	04/03/2019	1 year
LISN	R&S	ENV216	101041	03/28/2019	1 year
RF Cable	Woken	00100D1380194M	TE-02-03	05/23/2019	1 year

For Radiated Emissions

Test Period: Jul. 12 ~ Jul. 15, 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

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

For Conducted
Test Period: Jul. 17, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/25/2018	1 year
Power Sensor	Anritsu	MA2411B	1126022	08/29/2018	1 year
Power Meter	Anritsu	ML2495A	1135009	08/29/2018	1 year

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

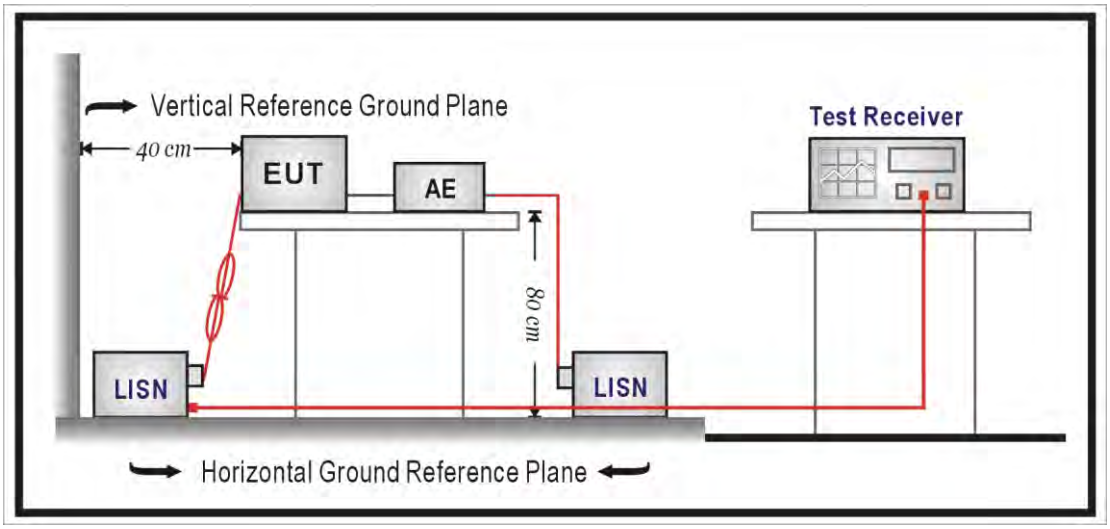
4 Measurement Procedure

4.1. 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 Ω// 50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 Ω// 50 uH 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**

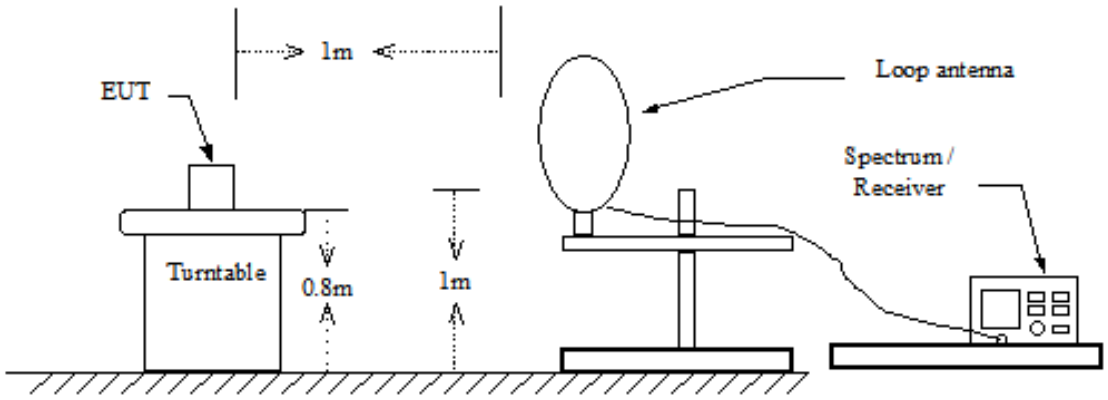
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/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

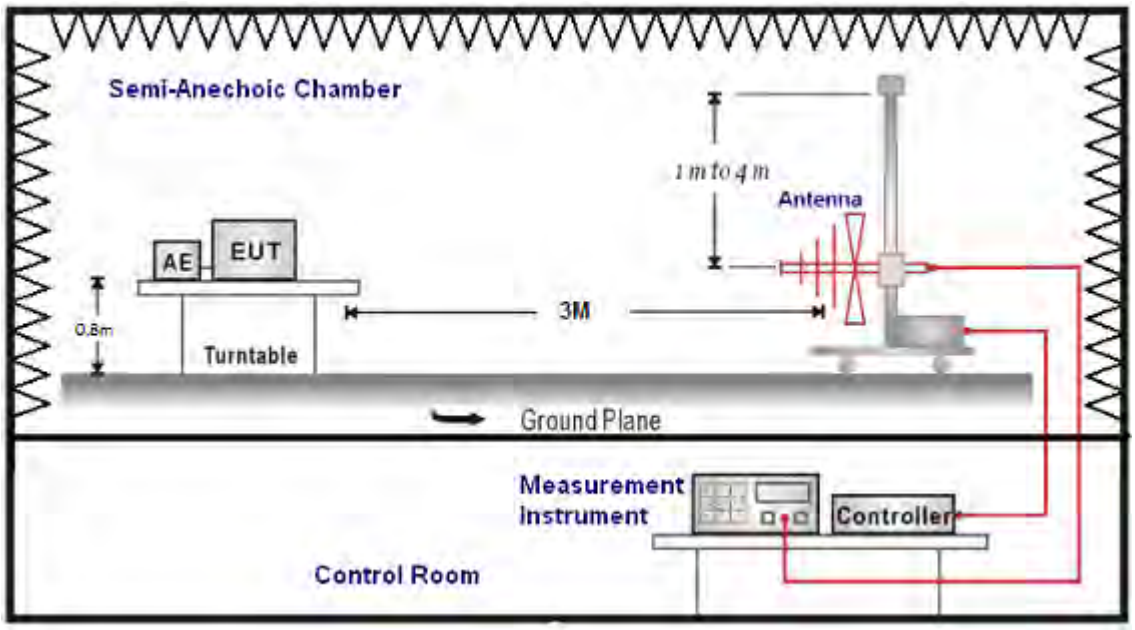
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

■ **Setup**

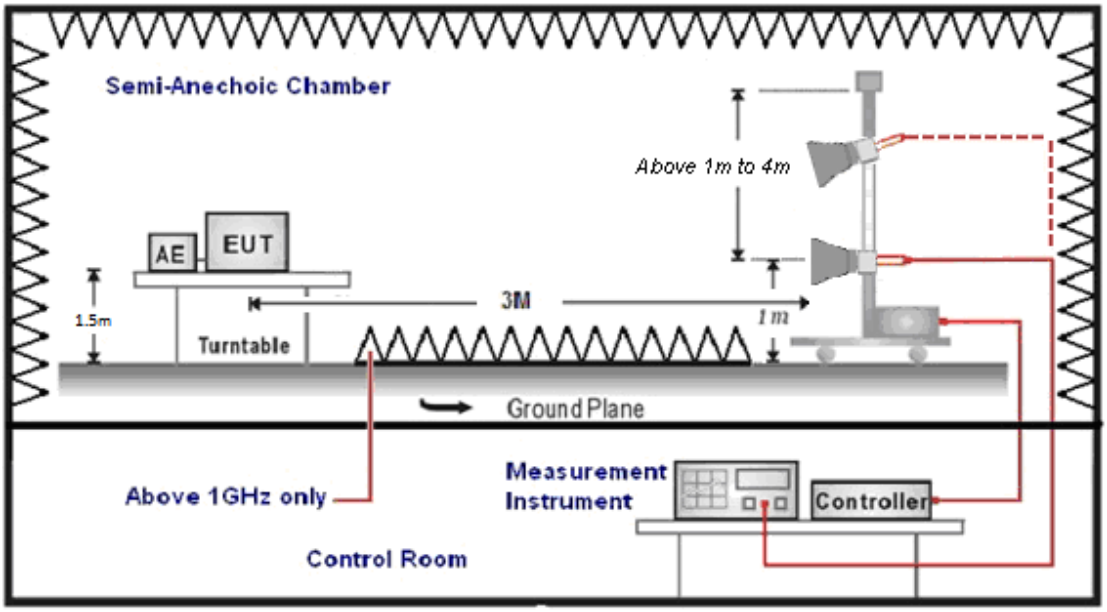
9 kHz ~ 30 MHz



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 tree 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 colts per meter (dBuV/m).

The actual field is 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) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)
FI= Reading of the field intensity.
AF= Antenna factor.
CL= Cable loss.
P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)
The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:
(a) For fundamental frequency : Transmitter Output < +30 dBm
(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

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

4.3. Maximum Conducted Output Power Measurement

■ **Limit**

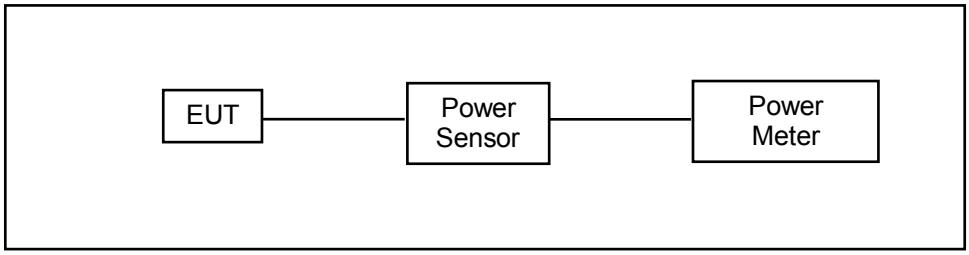
For systems using digital modulation in the 2400-2483.5 MHz, the limit for maximum output power is 30 dBm.

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

IEEE 802.11b / IEEE 802.11g / IEEE 802.11n 2.4 GHz 20 MHz / IEEE 802.11n 2.4 GHz 40 MHz

∗ Directional Gain = 10*log{[10^(G1/10)+10^(G2/10)+⋯+10^(Gn/10)]/NANT} = 1.93 dBi < 6dBi

■ **Test Setup**



■ **Test Procedure**

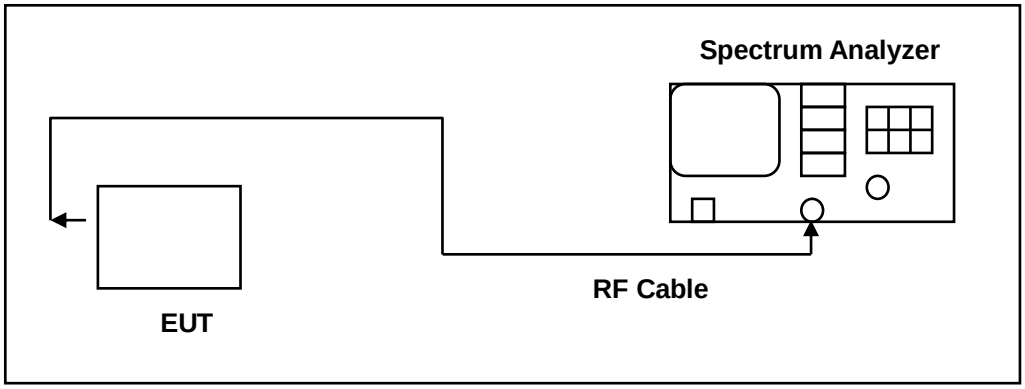
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

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 Density Measurement

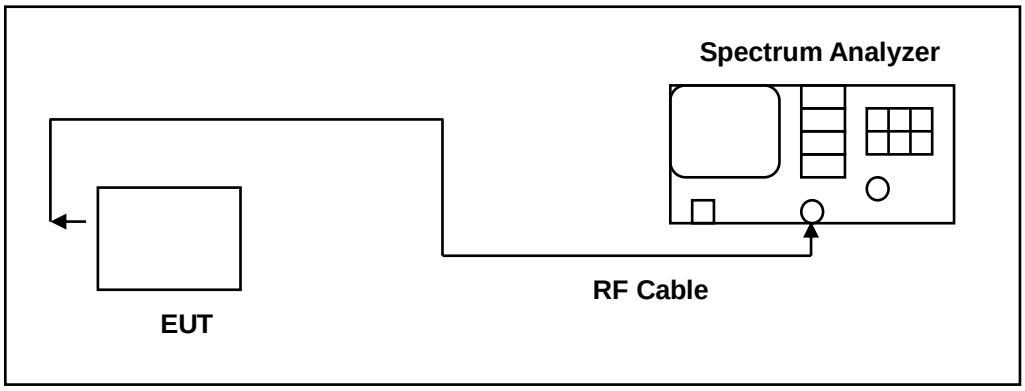
■ **Limit**

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.

IEEE 802.11b / IEEE 802.11g / IEEE 802.11n 2.4 GHz 20 MHz / IEEE 802.11n 2.4 GHz 40 MHz

∗ 802.11b：Directional Gain = 10*log{[10^(G1/20)+10^(G2/20)+…+10^(Gn/20)]^2/NANT} = 4.94 dBi < 6dBi

■ **Test Setup**



■ **Test Procedure**

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

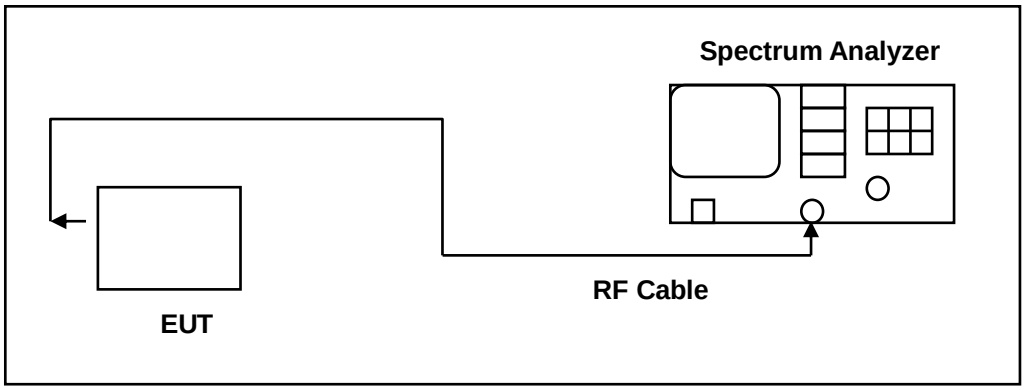
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 × RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the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

4.6. Out of Band Conducted Emissions Measurement

■ **Limit**

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

■ **Test Setup**



■ **Test Procedure**

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

4.7. Antenna Measurement

■ **Limit**

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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

■ **Antenna Description**

See section 2 – antenna information.

■ **Directional Gain Calculated**

For Maximum Conducted Output Power

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b	1.93
IEEE 802.11g	1.93
IEEE 802.11n 2.4 GHz 20 MHz	1.93
IEEE 802.11n 2.4 GHz 40 MHz	1.93

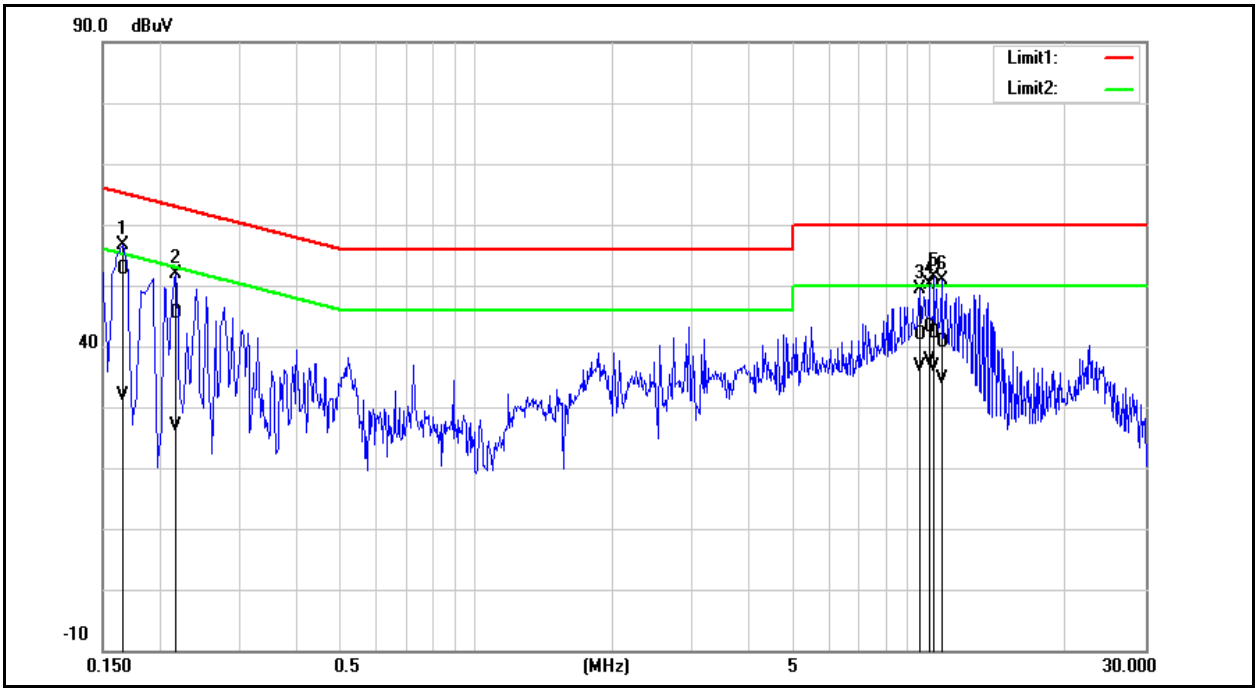
For Maximum Power Density

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b	4.94
IEEE 802.11g	4.94
IEEE 802.11n 2.4 GHz 20 MHz	4.94
IEEE 802.11n 2.4 GHz 40 MHz	4.94

5 Test Results

Annex A. Conducted Emission

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



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1660	42.86	22.14	9.65	52.51	31.79	65.16	55.16	-12.65	-23.37	Pass
2	0.2180	35.75	17.34	9.64	45.39	26.98	62.89	52.89	-17.50	-25.91	Pass
3	9.5180	32.05	26.72	9.90	41.95	36.62	60.00	50.00	-18.05	-13.38	Pass
4	10.0060	33.12	27.76	9.90	43.02	37.66	60.00	50.00	-16.98	-12.34	Pass
5	10.2860	32.28	26.67	9.90	42.18	36.57	60.00	50.00	-17.82	-13.43	Pass
6	10.6340	30.62	24.70	9.91	40.53	34.61	60.00	50.00	-19.47	-15.39	Pass

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

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

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

No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	45.65	25.88	9.68	55.33	35.56	66.00	56.00	-10.67	-20.44	Pass
2	0.1740	42.82	22.34	9.68	52.50	32.02	64.77	54.77	-12.27	-22.75	Pass
3	0.1860	42.01	20.30	9.67	51.68	29.97	64.21	54.21	-12.53	-24.24	Pass
4	0.1940	40.13	19.56	9.67	49.80	29.23	63.86	53.86	-14.06	-24.63	Pass
5	0.2180	36.02	16.37	9.67	45.69	26.04	62.89	52.89	-17.20	-26.85	Pass
6	13.5500	22.11	10.98	10.06	32.17	21.04	60.00	50.00	-27.83	-28.96	Pass

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

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

Annex B. Conducted Test Results

Maximum Conducted Output Power Measurement

Test Mode	Frequency (MHz)	Data Rate	Average Output Power				
			ANT-0		ANT-1		Limit
			(dBm)	(W)	dBm	(W)	dBm
Mode 2	2412	1 M	23.08	0.203	22.92	0.196	≤ 30.00
	2437		22.59	0.182	22.55	0.180	≤ 30.00
	2462		22.64	0.184	23.11	0.205	≤ 30.00
Mode 3	2412	6 M	22.63	0.183	22.54	0.179	≤ 30.00
	2437		22.25	0.168	22.48	0.177	≤ 30.00
	2462		22.47	0.177	22.35	0.172	≤ 30.00
Mode 4	2412	13 M	22.83	0.192	22.41	0.174	≤ 30.00
	2437		22.14	0.164	22.58	0.181	≤ 30.00
	2462		22.65	0.184	22.73	0.187	≤ 30.00
Mode 5	2422	27 M	23.09	0.204	22.96	0.198	≤ 30.00
	2437		23.18	0.208	22.37	0.173	≤ 30.00
	2452		23.22	0.210	22.78	0.190	≤ 30.00

Test Mode	Frequency (MHz)	Data Rate	Average Output Power		
			ANT-0+1		Limit
			(dBm)	(W)	dBm
Mode 2	2412	1 M	**26.01**	**0.399**	≤ 30.00
	2437		25.58	0.361	≤ 30.00
	2462		25.89	0.388	≤ 30.00
Mode 3	2412	6 M	**25.60**	**0.363**	≤ 30.00
	2437		25.38	0.345	≤ 30.00
	2462		25.42	0.348	≤ 30.00
Mode 4	2412	13 M	25.64	0.366	≤ 30.00
	2437		25.38	0.345	≤ 30.00
	2462		**25.70**	**0.372**	≤ 30.00
Mode 5	2422	27 M	**26.04**	**0.401**	≤ 30.00
	2437		25.80	0.381	≤ 30.00
	2452		26.02	0.400	≤ 30.00

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

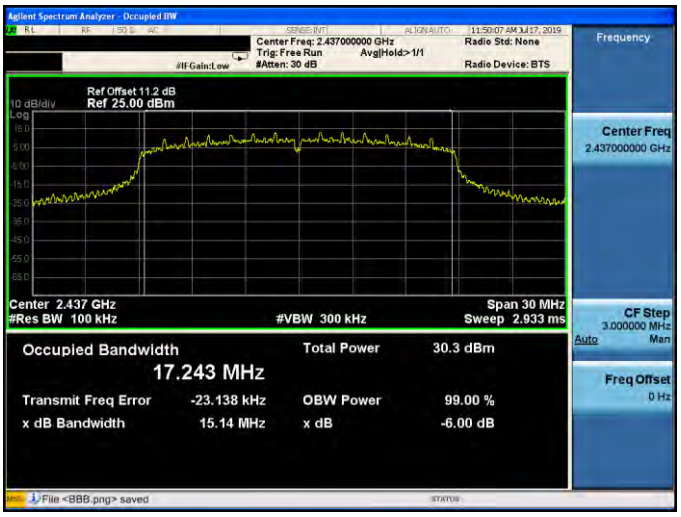
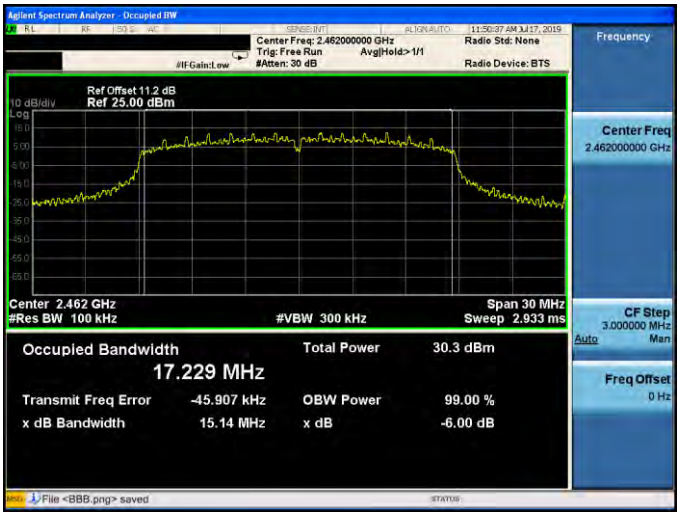
6 dB RF Bandwidth Measurement

Test Mode	Frequency (MHz)	Measurement (kHz)		Limit (kHz)
		ANT-0	ANT-1	
Mode 2	2412	9580	9584	≥ 500
	2437	10080	10080	≥ 500
	2462	10050	10090	≥ 500
Mode 3	2412	15090	15130	≥ 500
	2437	15100	15040	≥ 500
	2462	15130	15140	≥ 500
Mode 4	2412	15130	15120	≥ 500
	2437	15140	15110	≥ 500
	2462	15140	15120	≥ 500
Mode 5	2422	32630	33880	≥ 500
	2437	32630	32640	≥ 500
	2452	32630	33880	≥ 500

■ **Test Graphs**

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

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

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0	
2422 MHz	
2437 MHz	
2452 MHz	

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 3: IEEE 802.11g Continuous TX mode_ANT-1	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1	
2422 MHz	
2437 MHz	
2452 MHz	

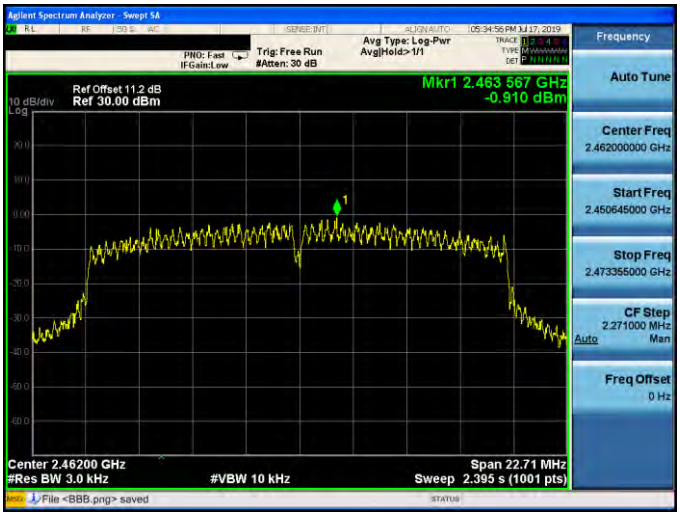
Maximum Power Density Measurement

Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)			Limit (dBm/3 kHz)
		ANT-0	ANT-1	ANT-0+1	
Mode 2	2412	0.233	-0.415	2.931	≤ 8
	2437	-0.340	-0.935	2.383	≤ 8
	2462	0.138	-0.459	2.860	≤ 8
Mode 3	2412	-0.244	-0.729	2.531	≤ 8
	2437	-1.239	-0.909	1.939	≤ 8
	2462	-1.000	-1.002	2.009	≤ 8
Mode 4	2412	-0.678	-1.390	1.991	≤ 8
	2437	-1.310	-1.664	1.527	≤ 8
	2462	-0.910	-1.784	1.685	≤ 8
Mode 5	2422	-3.919	-4.048	-0.973	≤ 8
	2437	-4.034	-4.499	-1.250	≤ 8
	2452	-4.111	-4.354	-1.221	≤ 8

■ **Test Graphs**

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

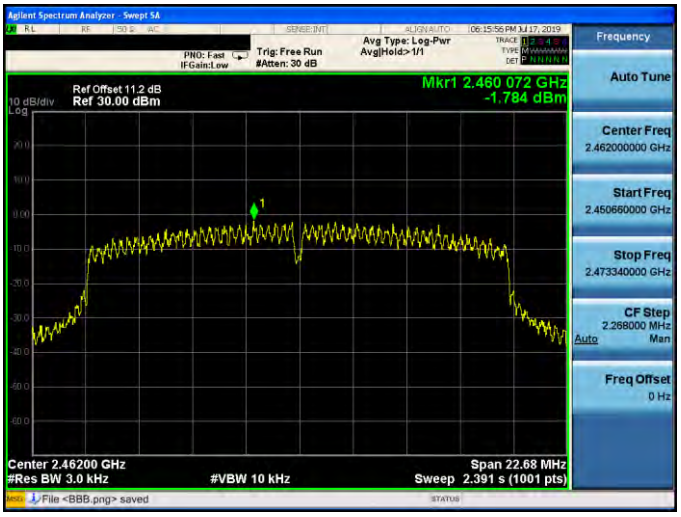
Mode 3: IEEE 802.11g Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

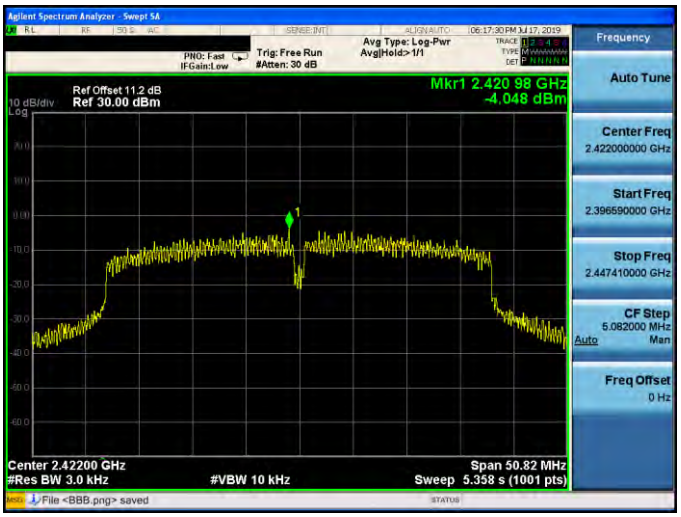
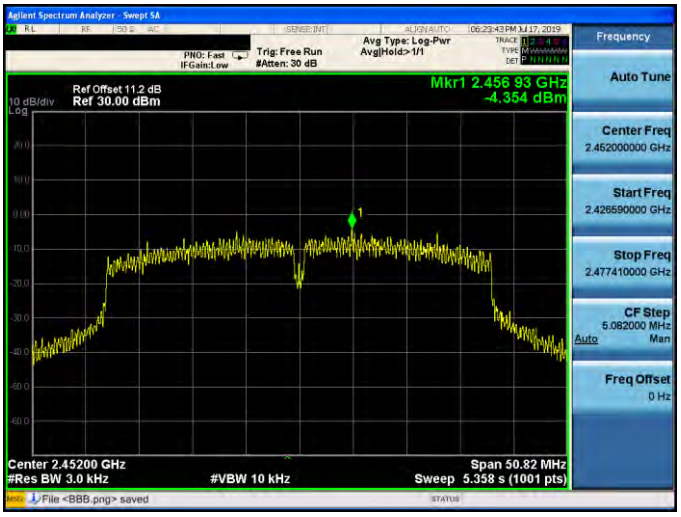
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0	
2422 MHz	
2437 MHz	
2452 MHz	

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 3: IEEE 802.11g Continuous TX mode_ANT-1	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1	
2422 MHz	
2437 MHz	
2452 MHz	

Out of Band Conducted Emissions Measurement

■ **Test Graphs**

Reference level

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

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

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0	
2422 MHz	
2437 MHz	
2452 MHz	

Mode 2: IEEE 802.11b Continuous TX mode_ANT-1	
2412 MHz	
2437 MHz	
2462 MHz	

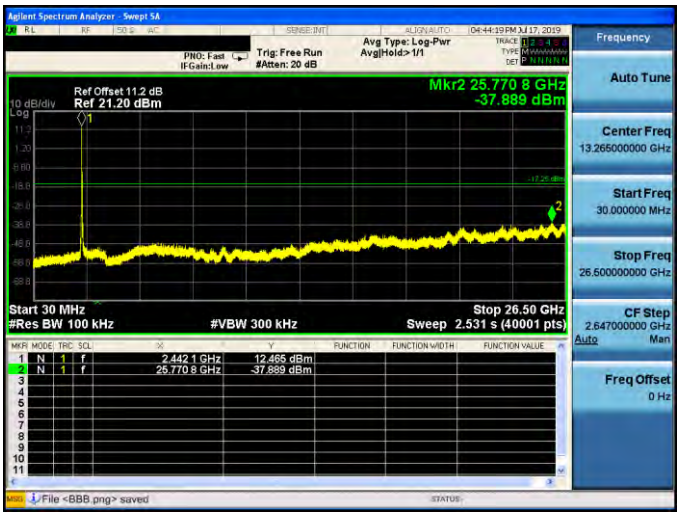
Mode 3: IEEE 802.11g Continuous TX mode_ANT-1	
2412 MHz	
2437 MHz	
2462 MHz	

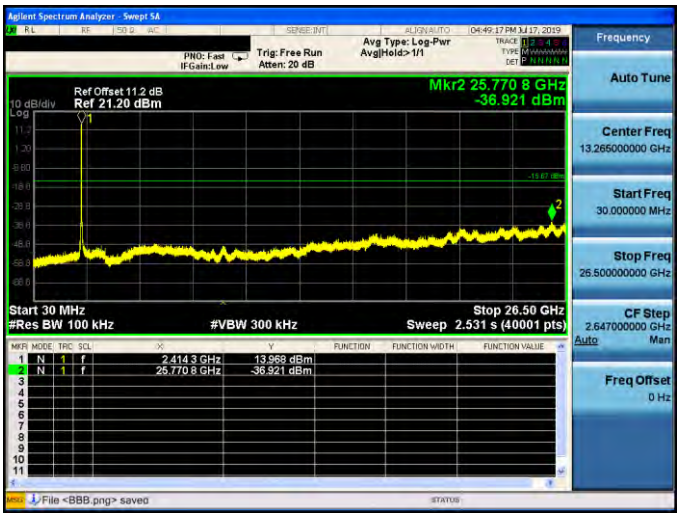
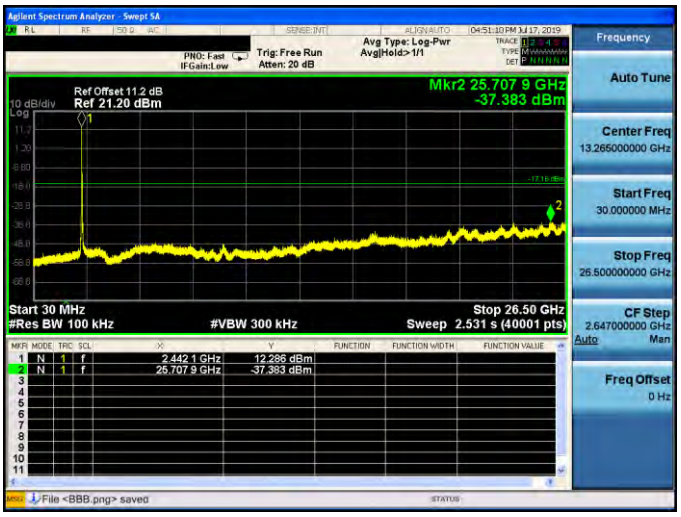
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1	
2412 MHz	
2437 MHz	
2462 MHz	

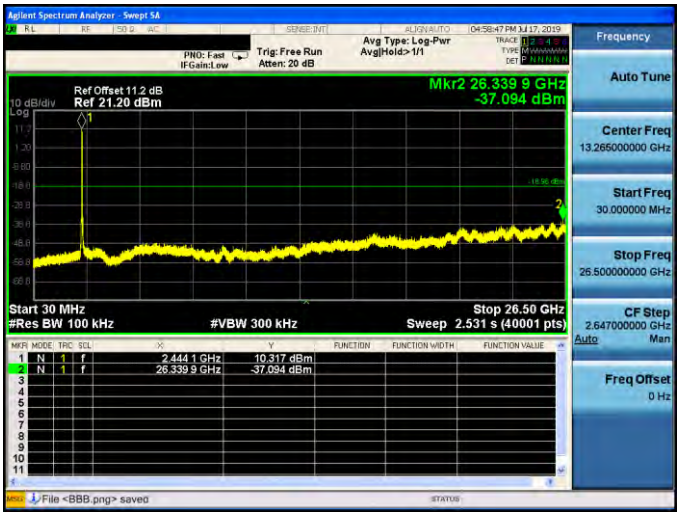
Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1	
2422 MHz	
2437 MHz	
2452 MHz	

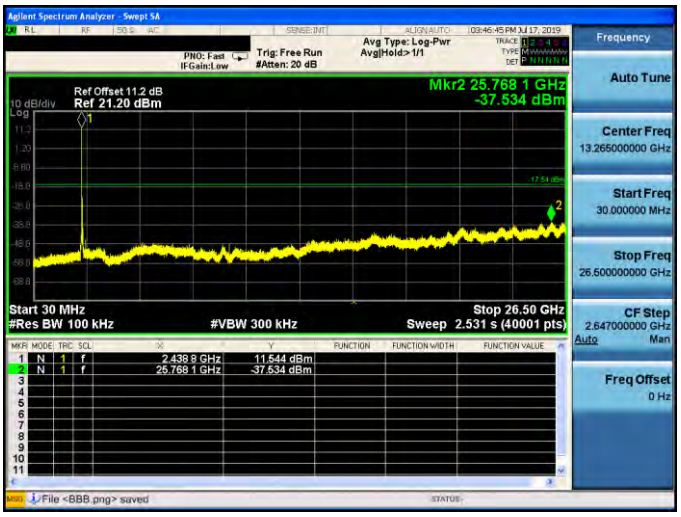
Out of Band Conducted Emissions

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

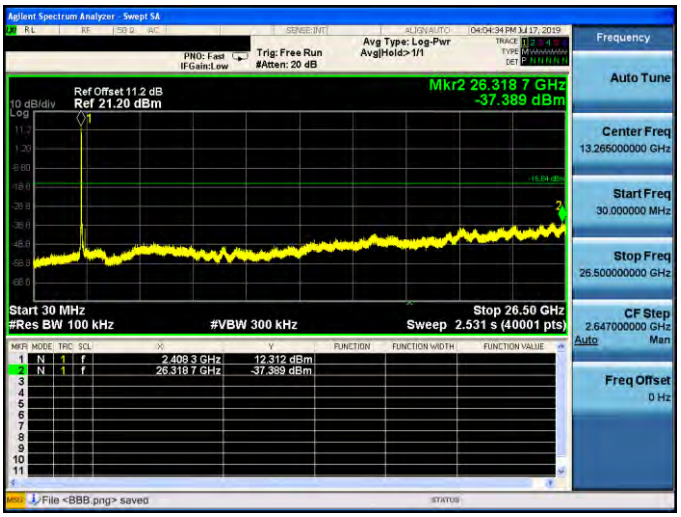
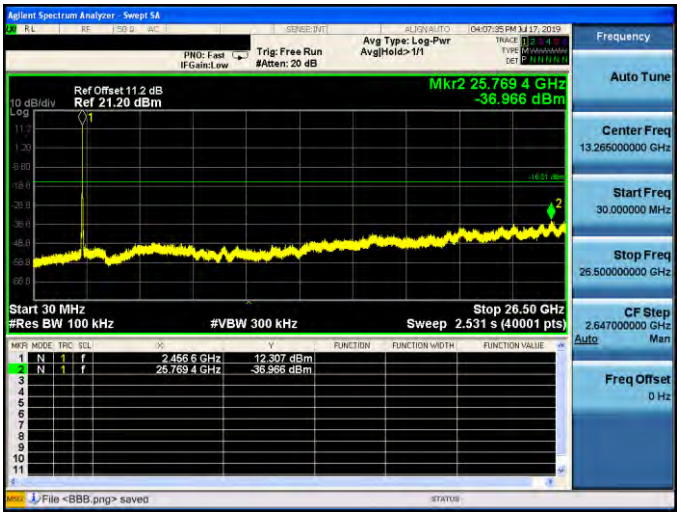
Mode 3: IEEE 802.11g Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

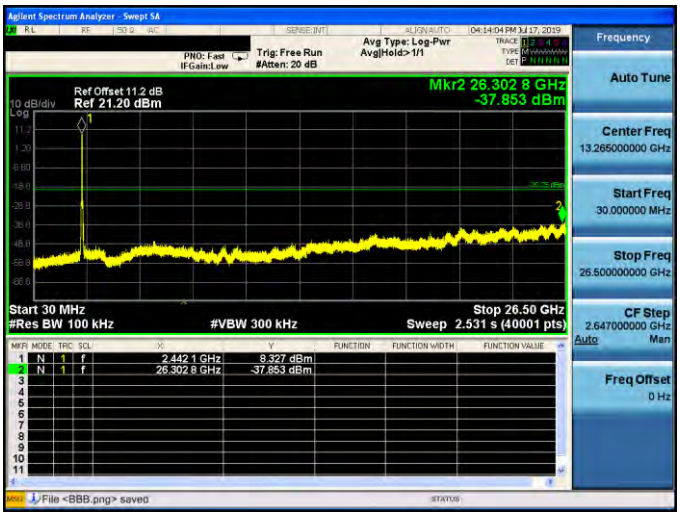
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0	
2422 MHz	
2437 MHz	
2452 MHz	

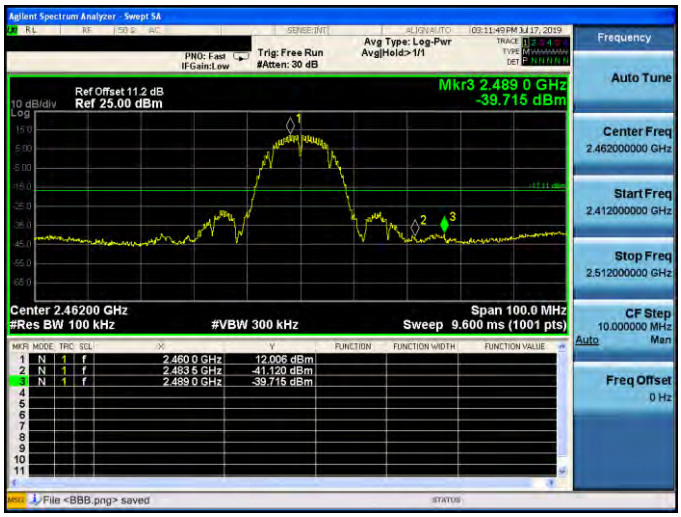
Mode 2: IEEE 802.11b Continuous TX mode_ANT-1	
2412 MHz	
2437 MHz	
2462 MHz	

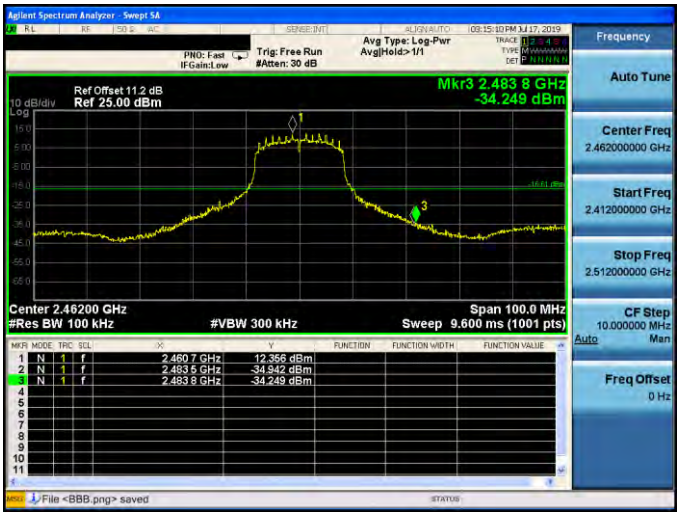
Mode 3: IEEE 802.11g Continuous TX mode_ANT-1	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1	
2412 MHz	
2437 MHz	
2462 MHz	

Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1	
2422 MHz	
2437 MHz	
2452 MHz	

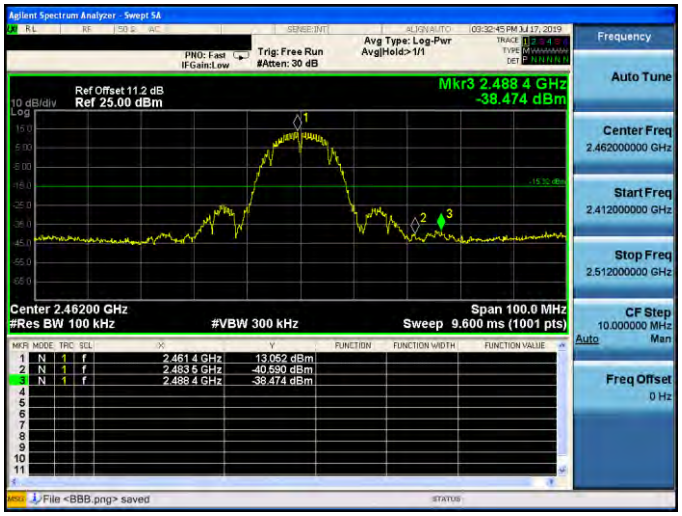
Conducted Band Edge

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0	
2412 MHz	
2462 MHz	

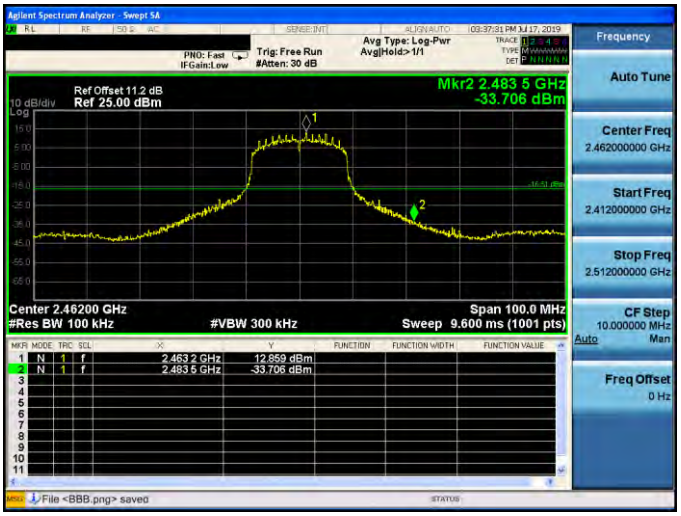
Mode 3: IEEE 802.11g Continuous TX mode_ANT-0	
2412 MHz	
2462 MHz	

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0	
2412 MHz	
2462 MHz	

Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0	
2422 MHz	
2452 MHz	

Mode 2: IEEE 802.11b Continuous TX mode_ANT-1	
2412 MHz	
2462 MHz	

Mode 3: IEEE 802.11g Continuous TX mode_ANT-1	
2412 MHz	
2462 MHz	

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1	
2412 MHz	
2462 MHz	

Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1	
2422 MHz	
2452 MHz	

Annex C. Radiated Emission Measurement

Harmonic

Below 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
84.3200	43.37	-11.62	31.75	40.00	-8.25	QP	H
137.6700	39.34	-6.68	32.66	43.50	-10.84	QP	H
199.7500	37.39	-7.90	29.49	43.50	-14.01	QP	H
248.2500	37.12	-6.20	30.92	46.00	-15.08	QP	H
492.6900	31.86	-0.42	31.44	46.00	-14.56	QP	H
896.2100	29.03	7.53	36.56	46.00	-9.44	QP	H
58.1300	41.48	-6.90	34.58	40.00	-5.42	QP	V
76.5600	44.21	-10.22	33.99	40.00	-6.01	QP	V
93.0500	45.93	-11.94	33.99	43.50	-9.51	QP	V
150.2800	39.24	-5.86	33.38	43.50	-10.12	QP	V
203.6300	38.35	-7.89	30.46	43.50	-13.04	QP	V
746.8300	32.38	4.88	37.26	46.00	-8.74	QP	V

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

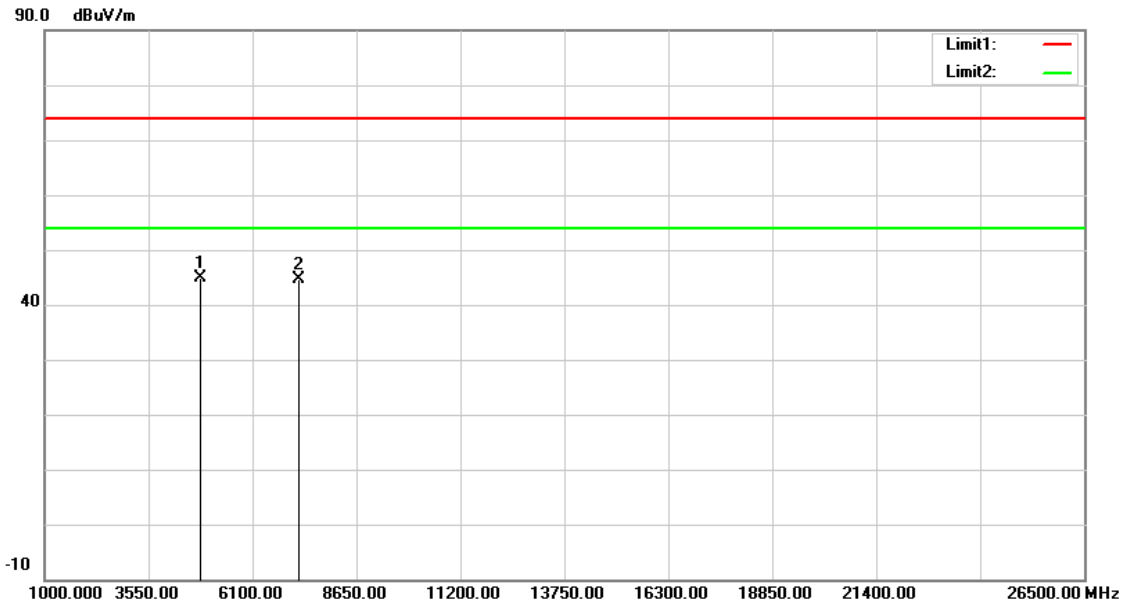
Example: 31.75 = -11.62 + 43.37

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

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

Above 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	39.32	5.57	44.89	74.00	-29.11	peak
2	7236.000	32.54	11.98	44.52	74.00	-29.48	peak

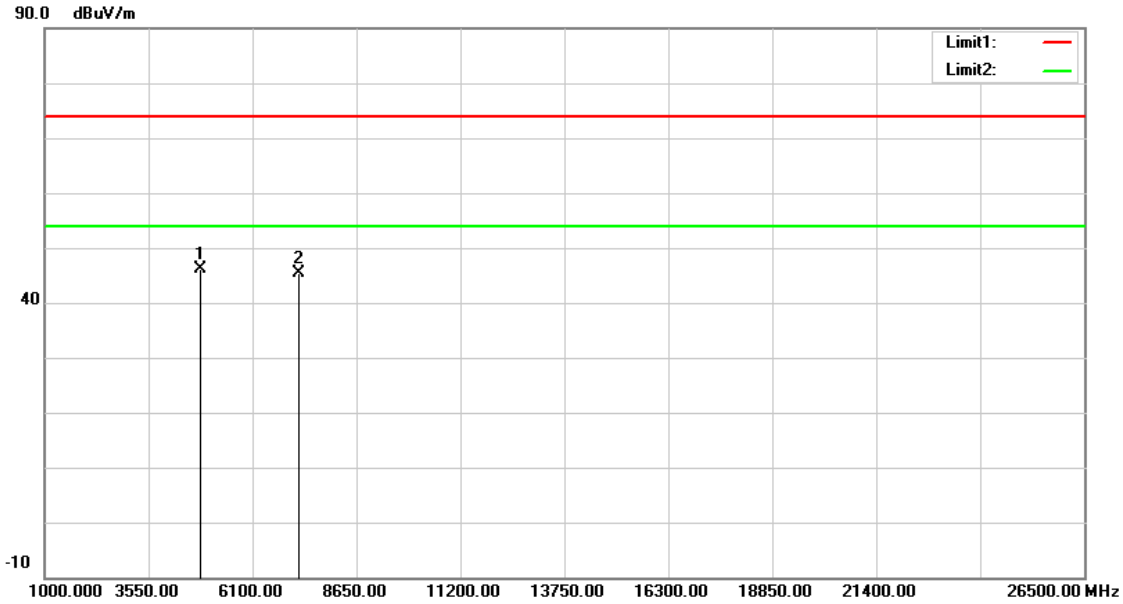
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 44.89 = 5.57 + 39.32

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	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	40.60	5.57	46.17	74.00	-27.83	peak
2	7236.000	33.51	11.98	45.49	74.00	-28.51	peak

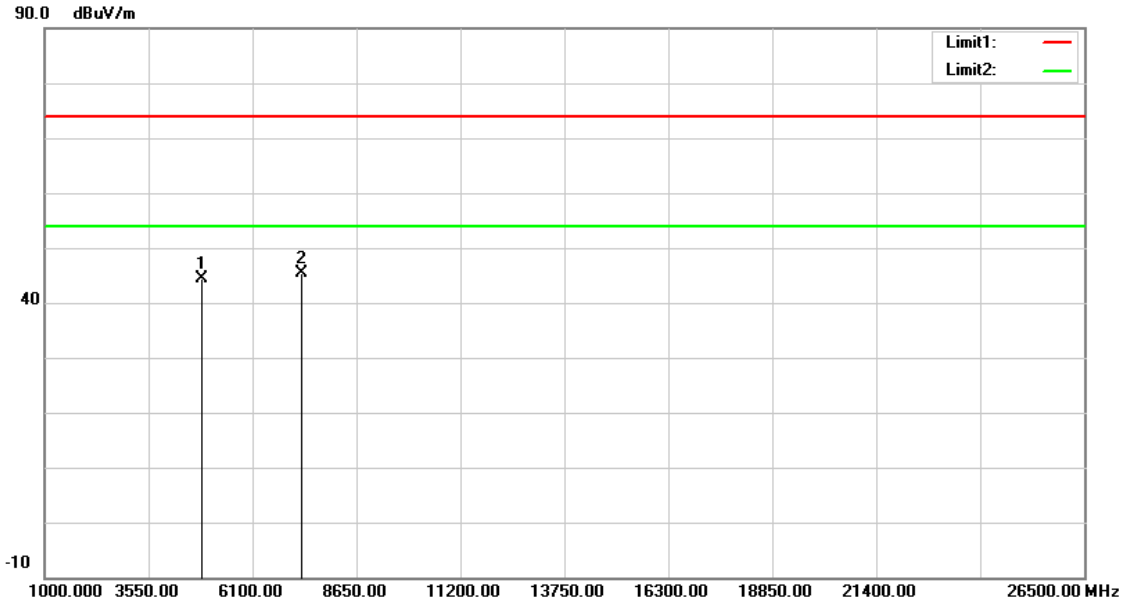
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 46.17 = 5.57 + 40.60

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



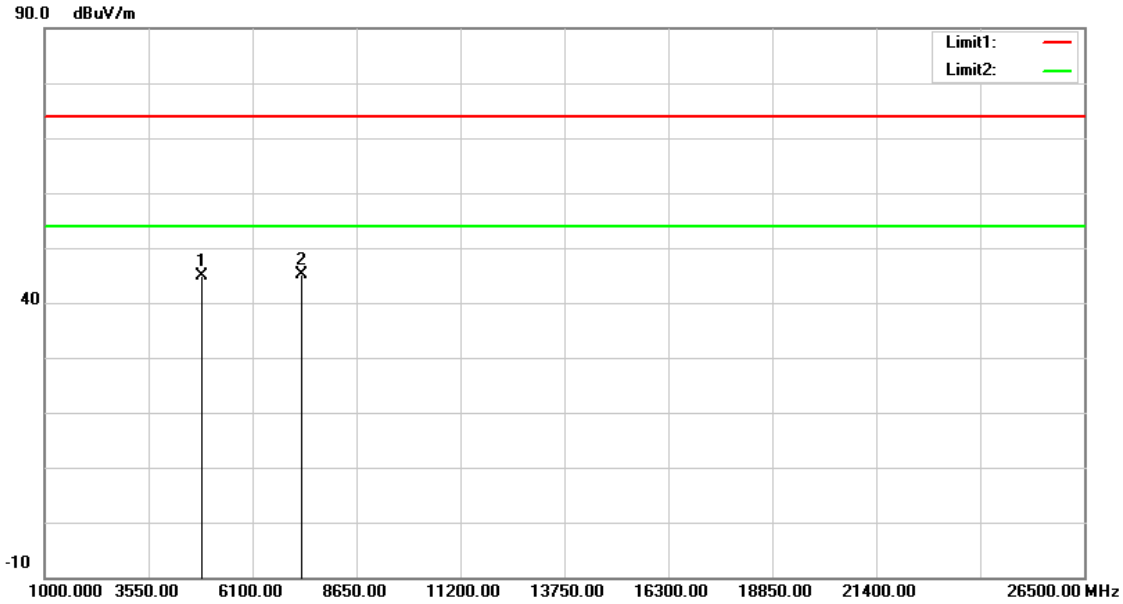
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	38.77	5.67	44.44	74.00	-29.56	peak
2	7311.000	33.23	12.15	45.38	74.00	-28.62	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



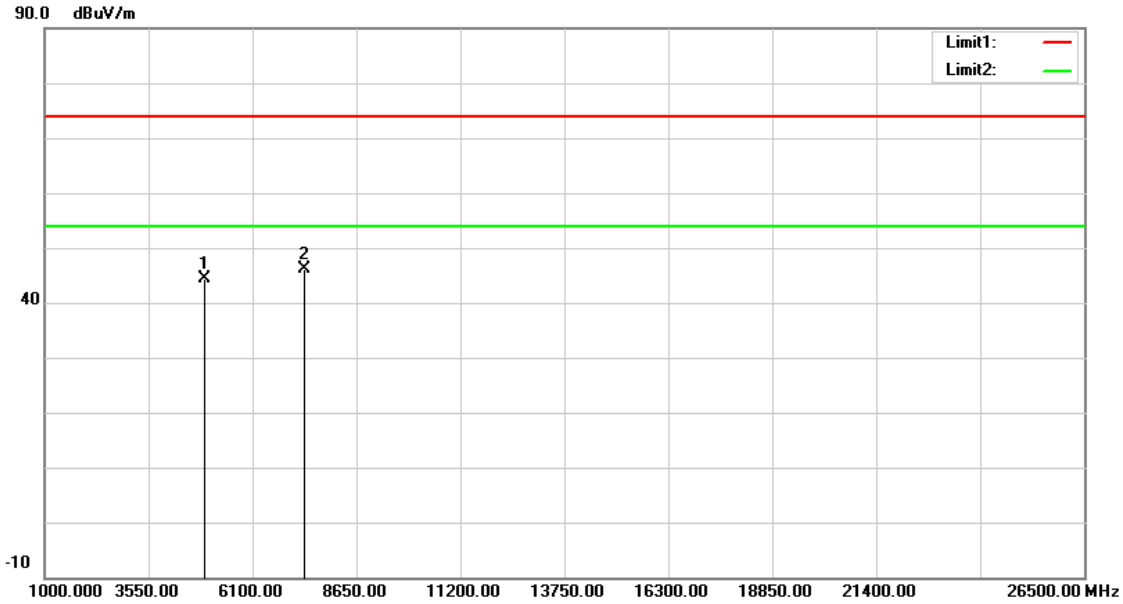
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	39.10	5.67	44.77	74.00	-29.23	peak
2	7311.000	33.03	12.15	45.18	74.00	-28.82	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



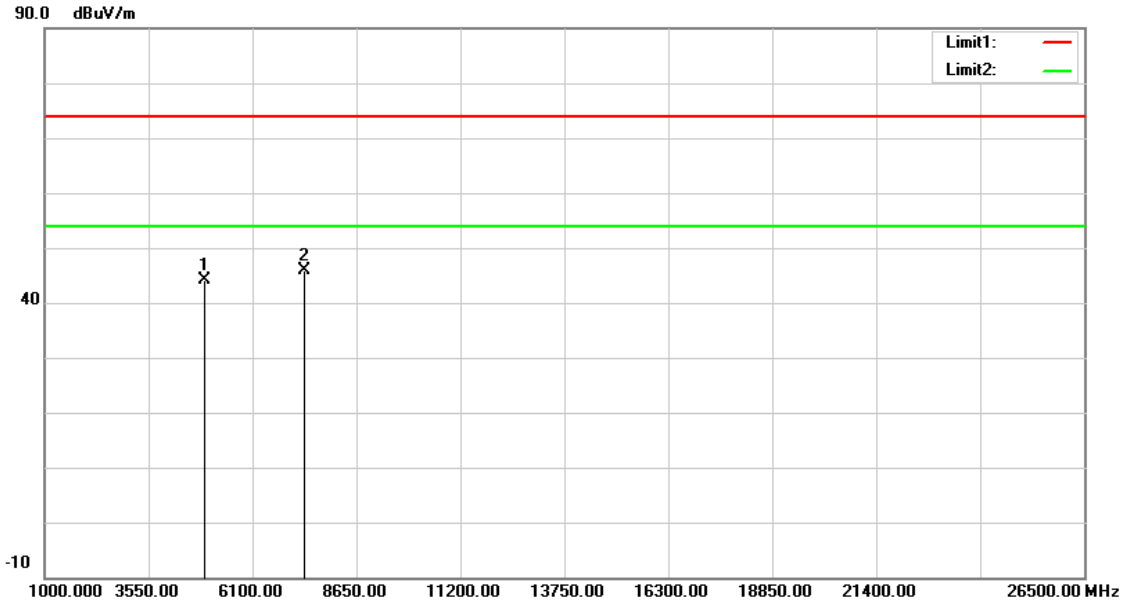
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	38.61	5.77	44.38	74.00	-29.62	peak
2	7386.000	33.91	12.33	46.24	74.00	-27.76	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



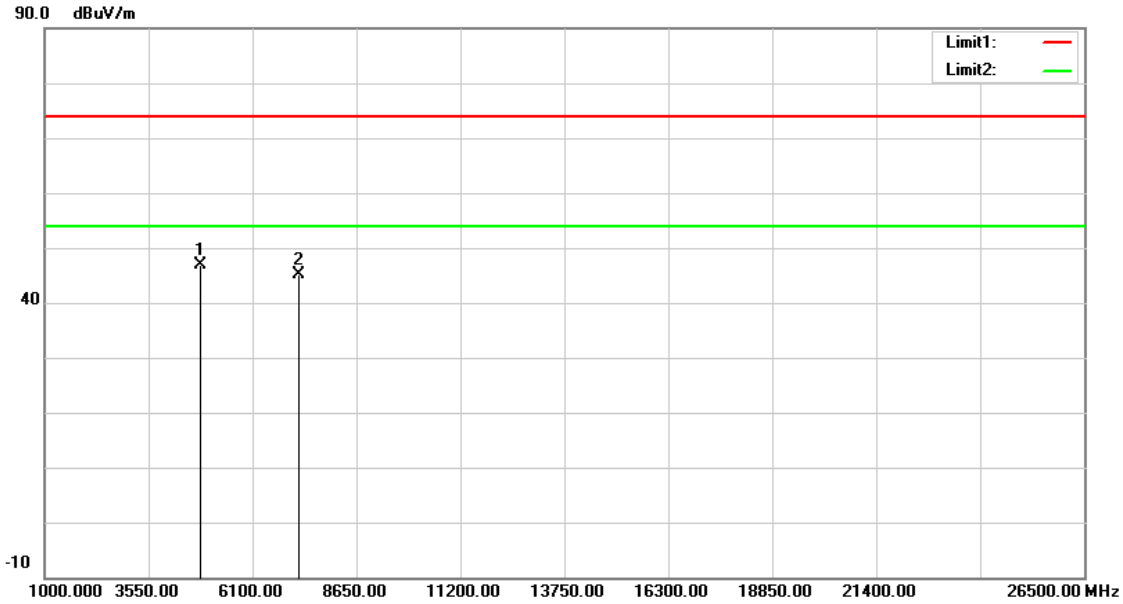
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	38.47	5.77	44.24	74.00	-29.76	peak
2	7386.000	33.54	12.33	45.87	74.00	-28.13	peak

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

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

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

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



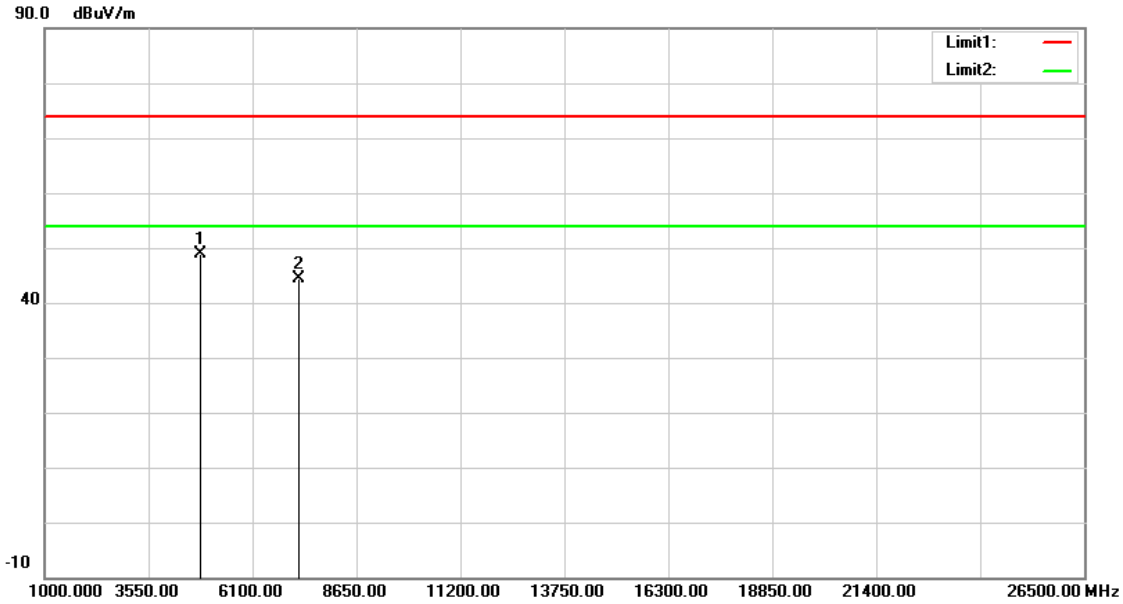
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	41.30	5.57	46.87	74.00	-27.13	peak
2	7236.000	33.08	11.98	45.06	74.00	-28.94	peak

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

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

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

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



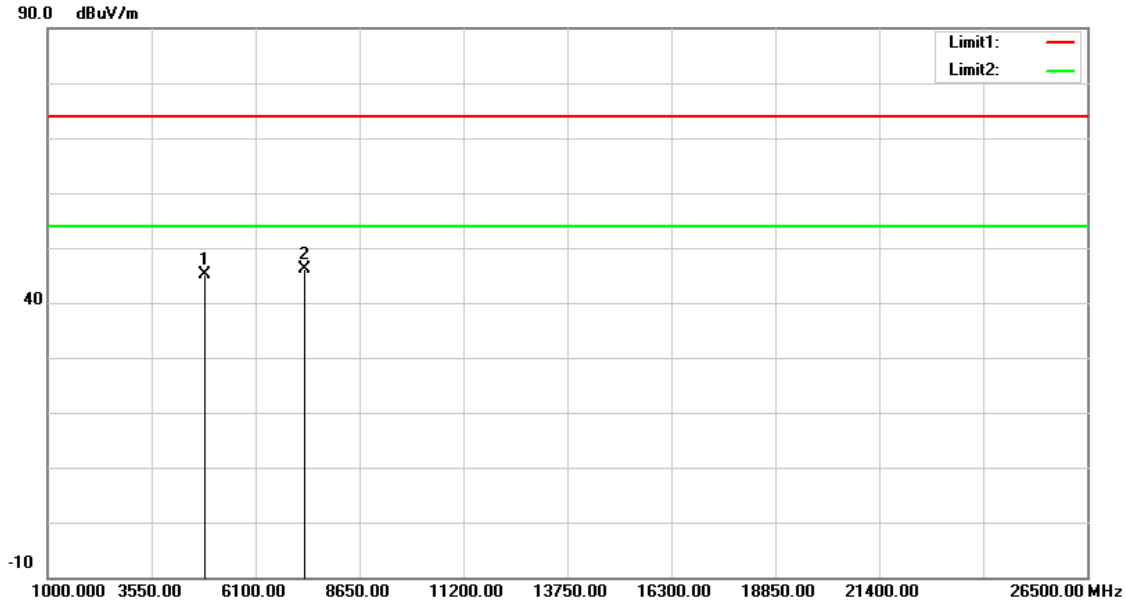
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	43.19	5.57	48.76	74.00	-25.24	peak
2	7236.000	32.34	11.98	44.32	74.00	-29.68	peak

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



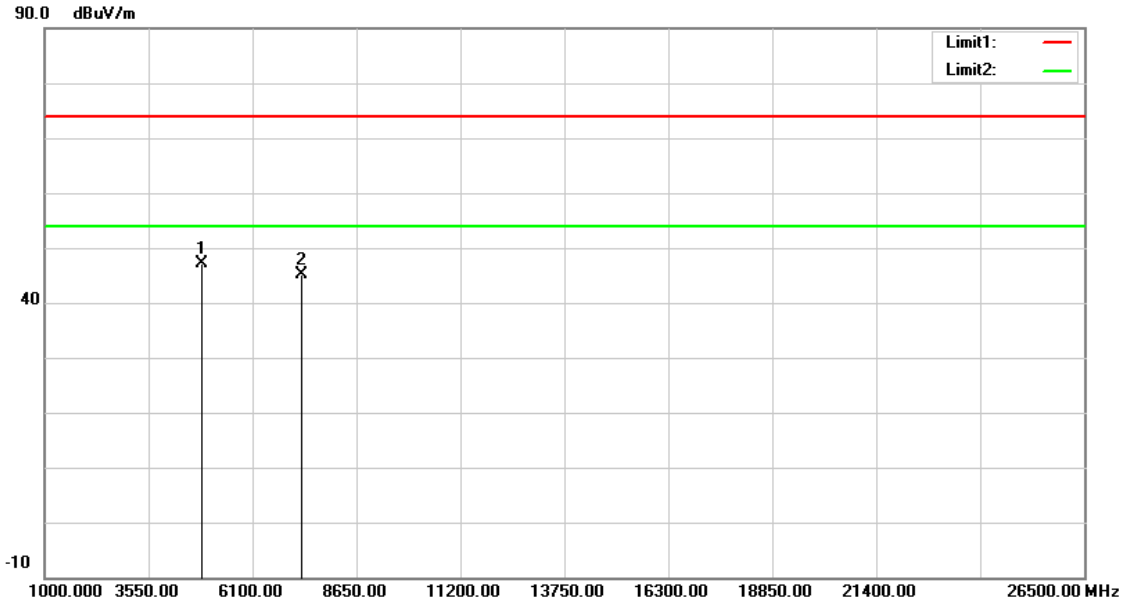
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	39.49	5.67	45.16	74.00	-28.84	peak
2	7311.000	33.95	12.15	46.10	74.00	-27.90	peak

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	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



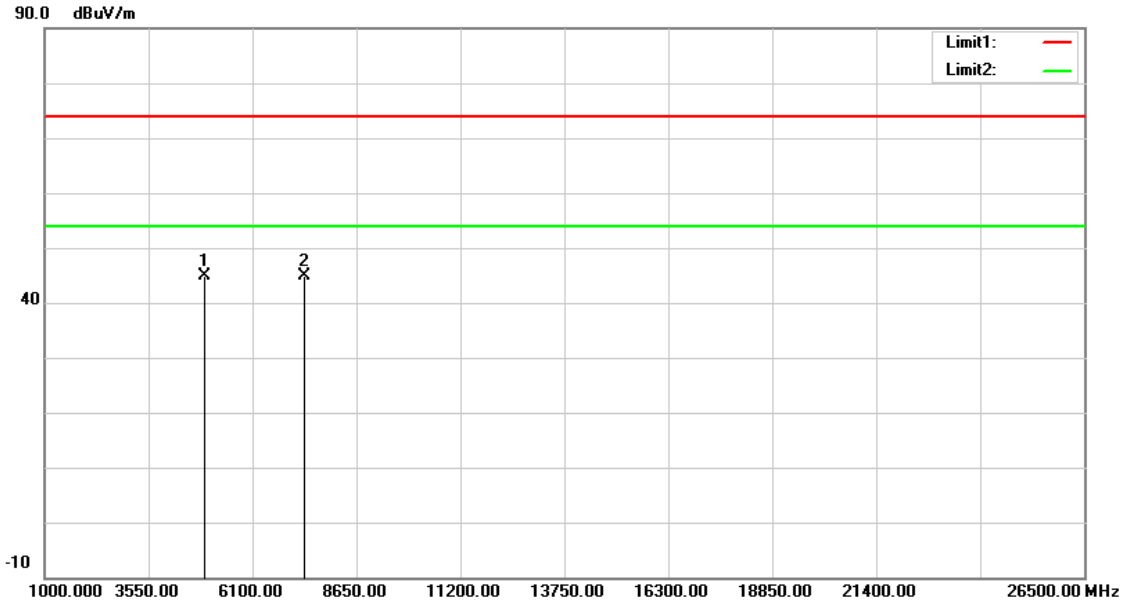
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	41.52	5.67	47.19	74.00	-26.81	peak
2	7311.000	32.90	12.15	45.05	74.00	-28.95	peak

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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



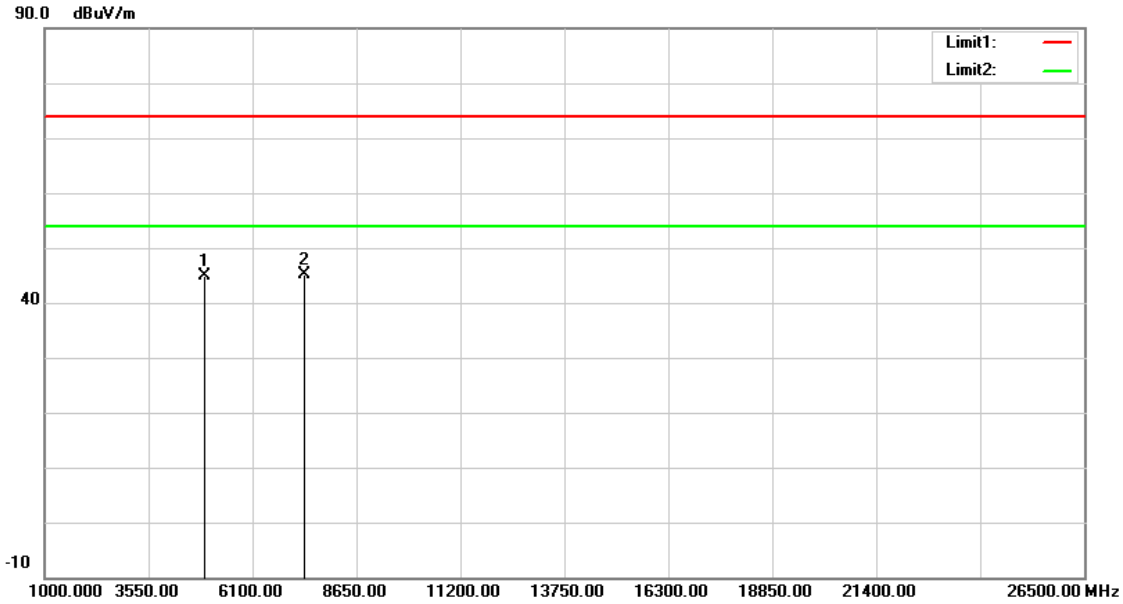
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	39.11	5.77	44.88	74.00	-29.12	peak
2	7386.000	32.62	12.33	44.95	74.00	-29.05	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



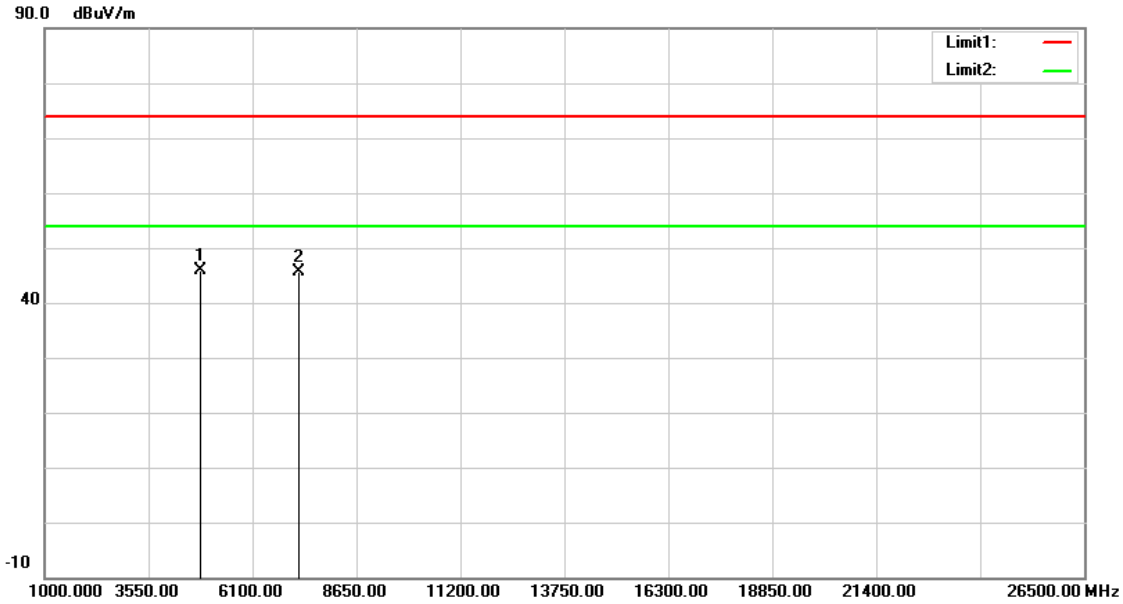
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	39.16	5.77	44.93	74.00	-29.07	peak
2	7386.000	32.91	12.33	45.24	74.00	-28.76	peak

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

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

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

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



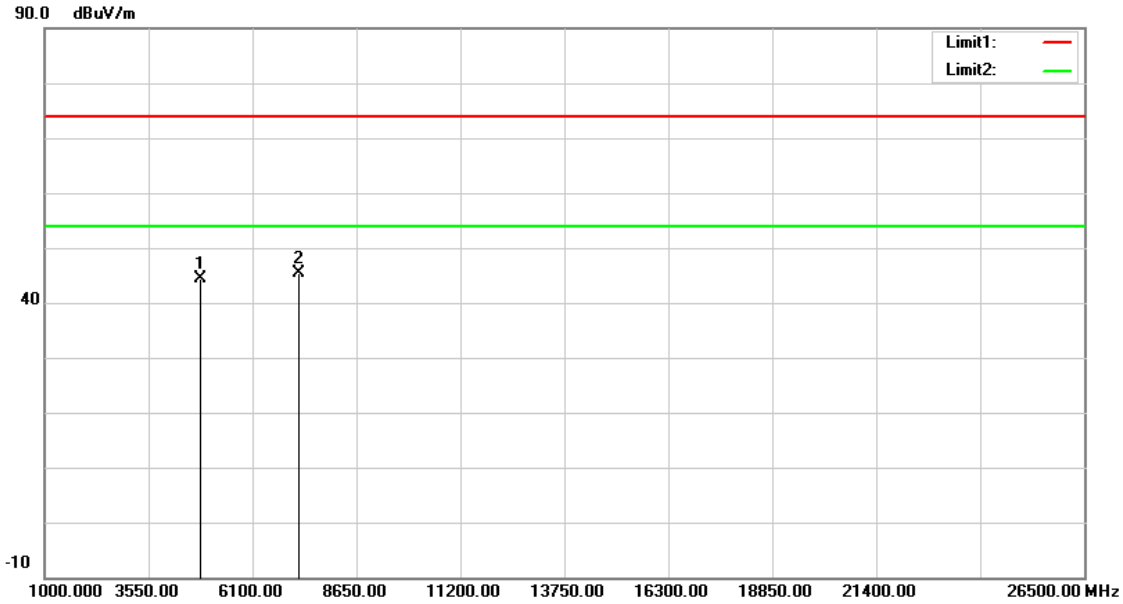
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	40.23	5.57	45.80	74.00	-28.20	peak
2	7236.000	33.68	11.98	45.66	74.00	-28.34	peak

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

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

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

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



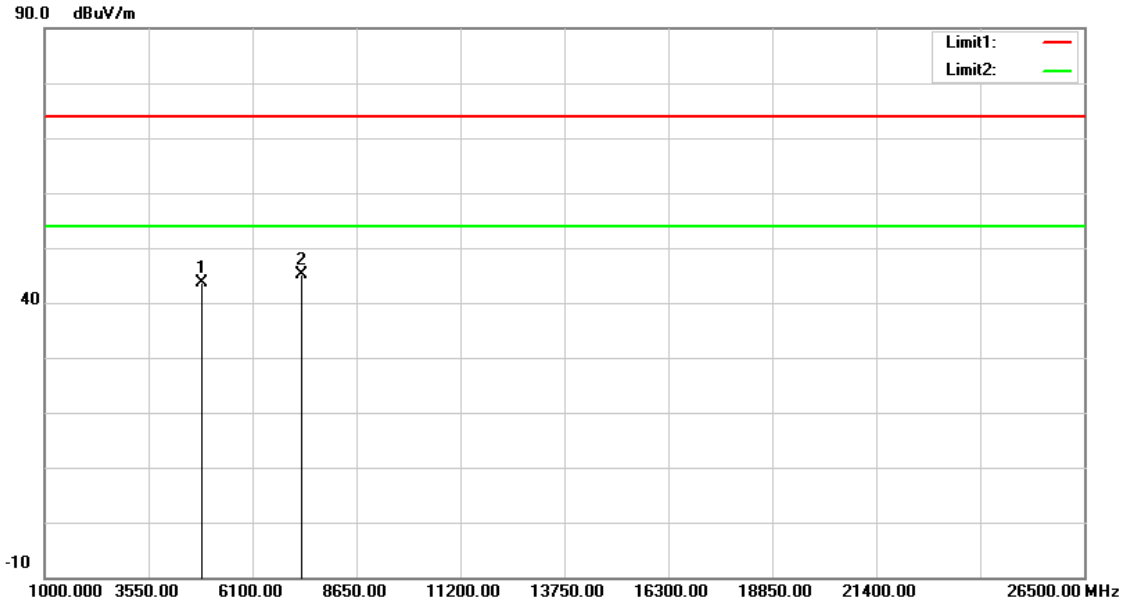
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	38.93	5.57	44.50	74.00	-29.50	peak
2	7236.000	33.35	11.98	45.33	74.00	-28.67	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



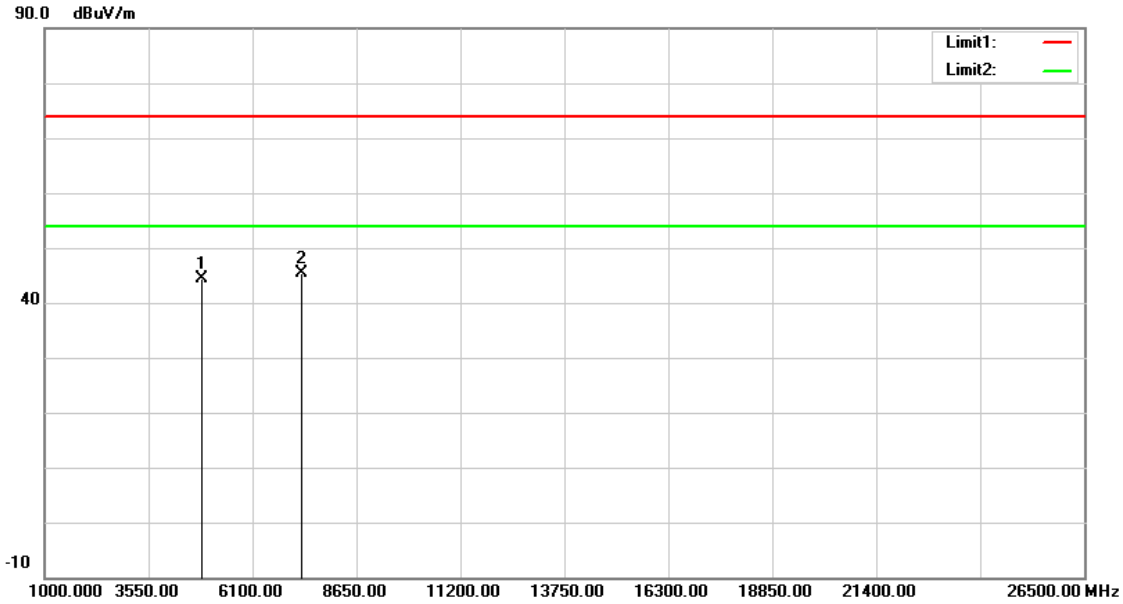
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	37.94	5.67	43.61	74.00	-30.39	peak
2	7311.000	32.97	12.15	45.12	74.00	-28.88	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



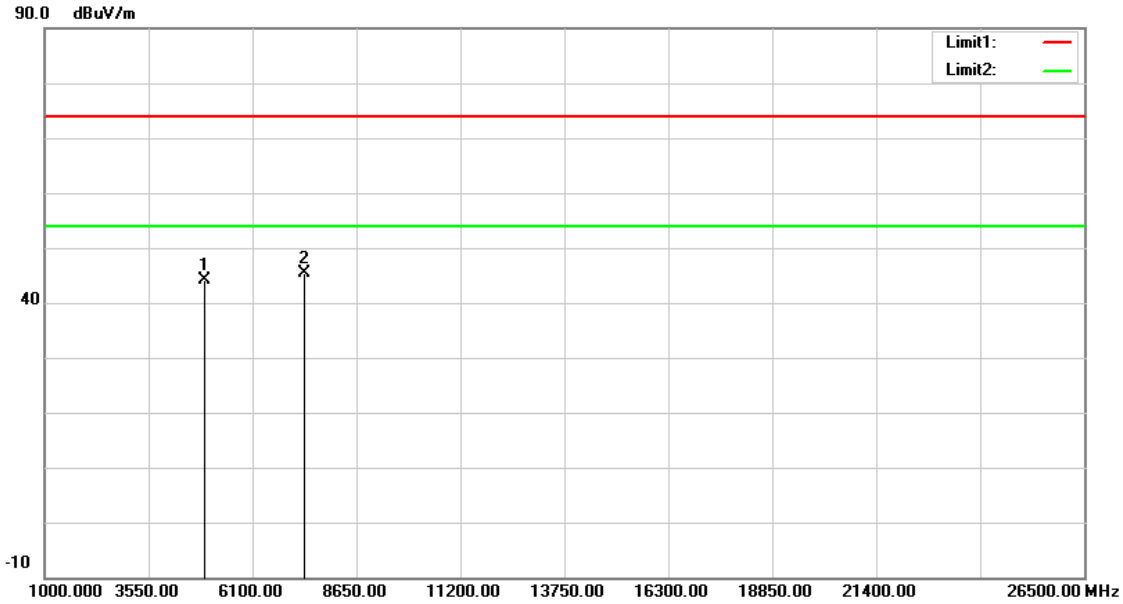
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	38.63	5.67	44.30	74.00	-29.70	peak
2	7311.000	33.27	12.15	45.42	74.00	-28.58	peak

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



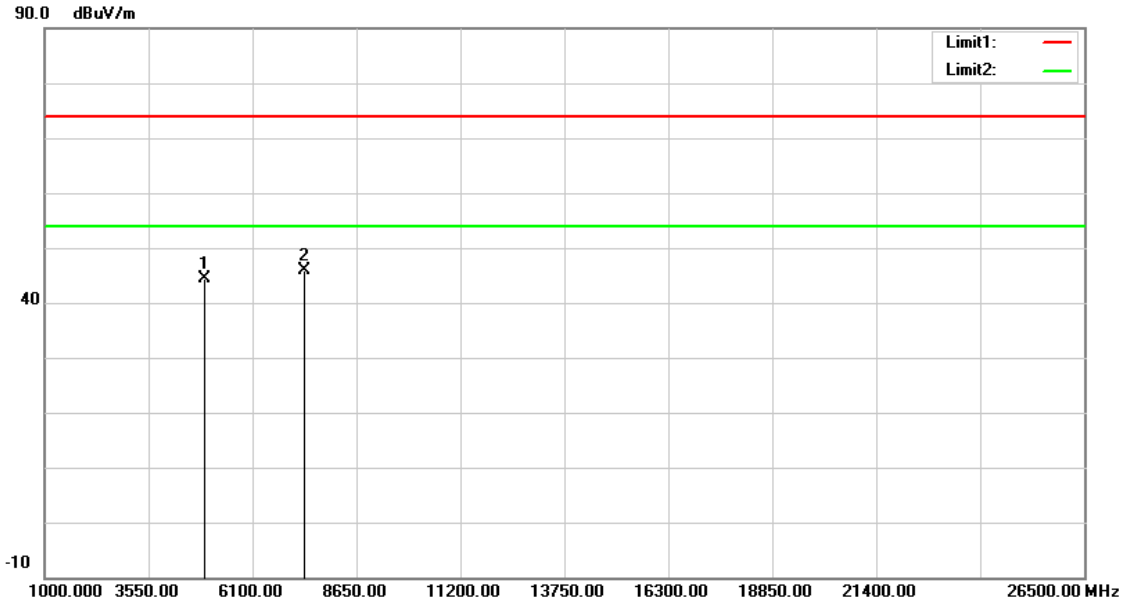
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	38.24	5.77	44.01	74.00	-29.99	peak
2	7386.000	33.09	12.33	45.42	74.00	-28.58	peak

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



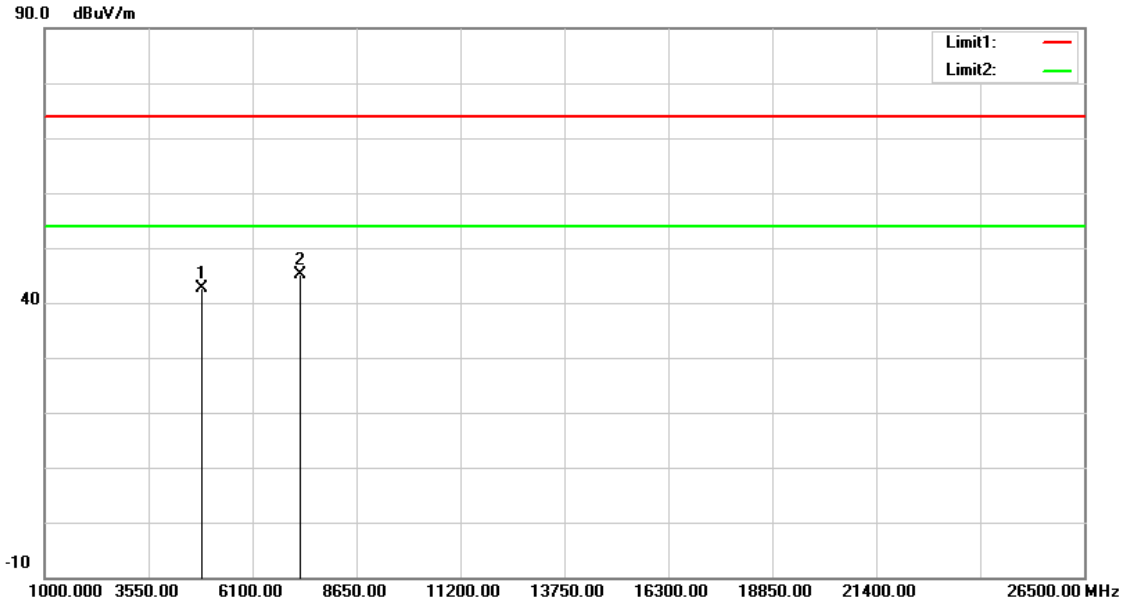
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	38.67	5.77	44.44	74.00	-29.56	peak
2	7386.000	33.54	12.33	45.87	74.00	-28.13	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



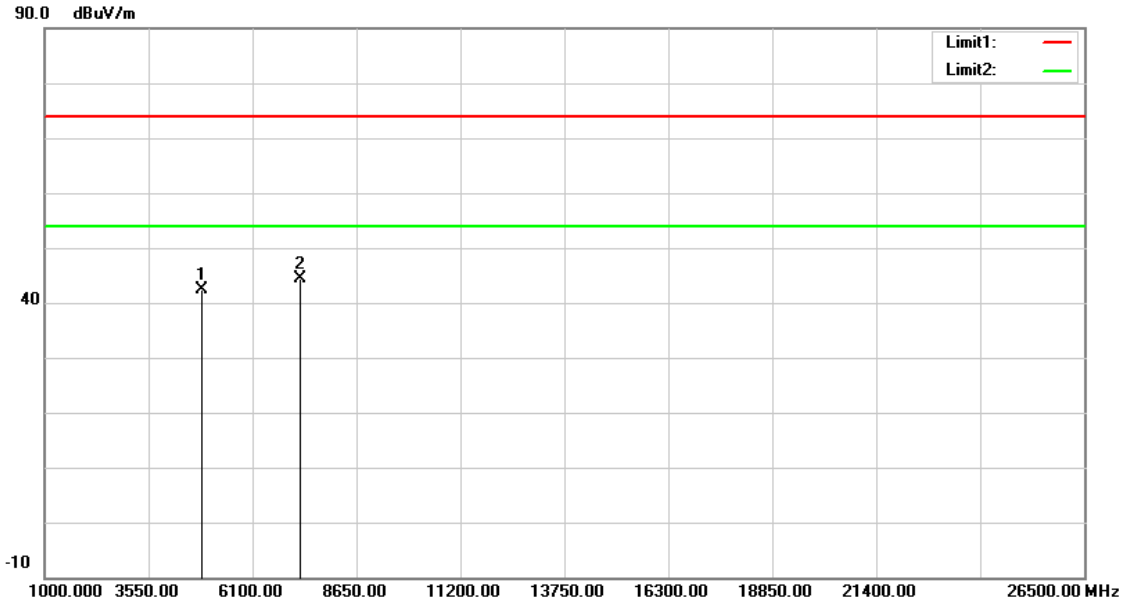
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	36.99	5.62	42.61	74.00	-31.39	peak
2	7266.000	33.15	12.04	45.19	74.00	-28.81	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



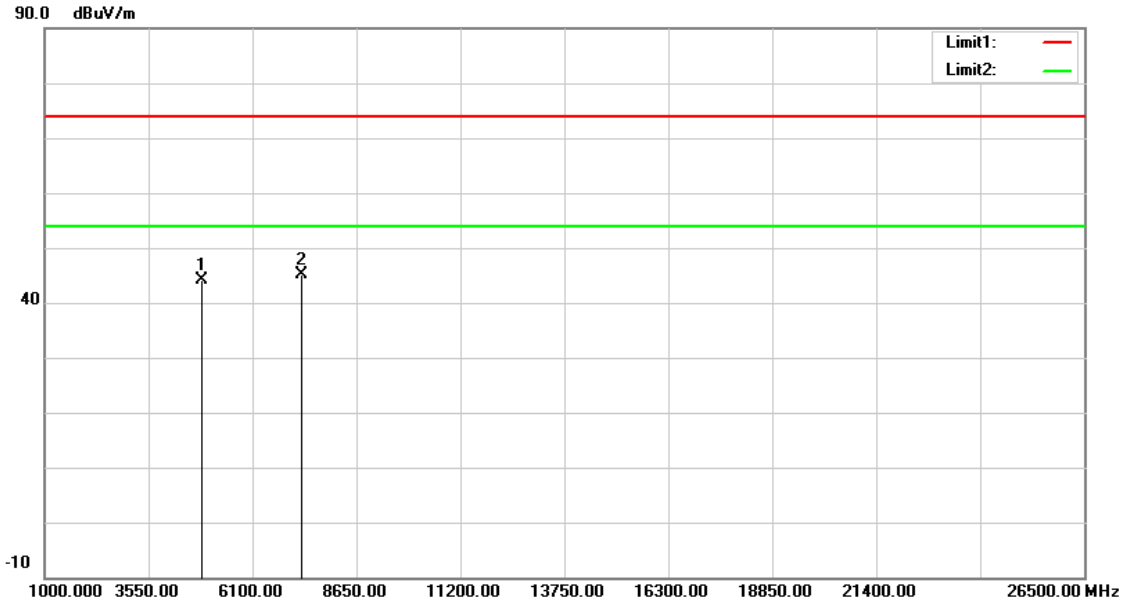
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	36.74	5.62	42.36	74.00	-31.64	peak
2	7266.000	32.45	12.04	44.49	74.00	-29.51	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



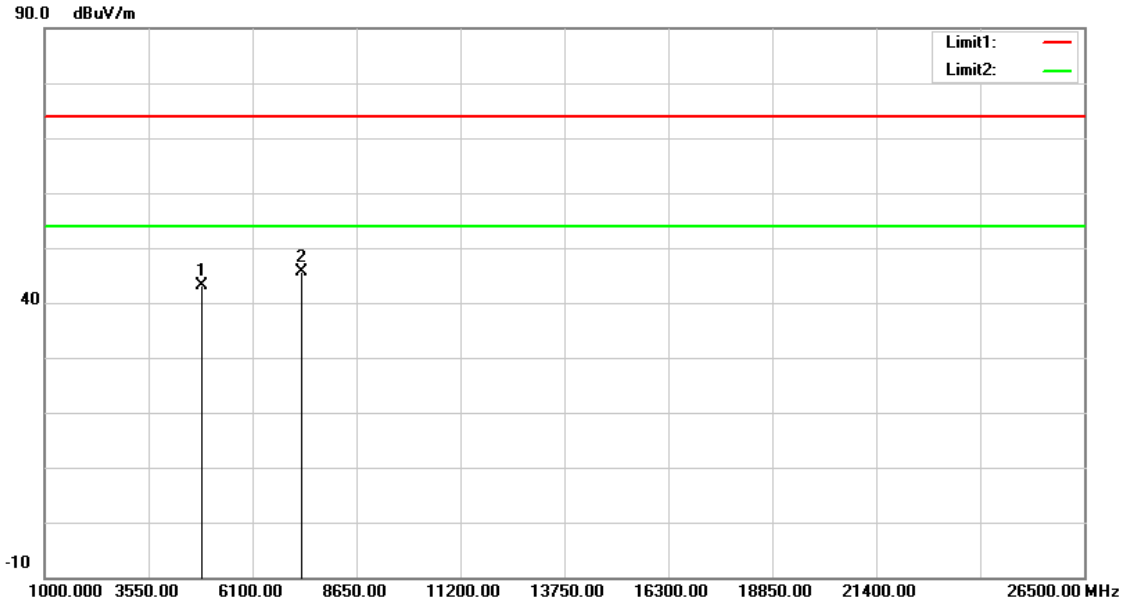
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	38.46	5.67	44.13	74.00	-29.87	peak
2	7311.000	32.86	12.15	45.01	74.00	-28.99	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



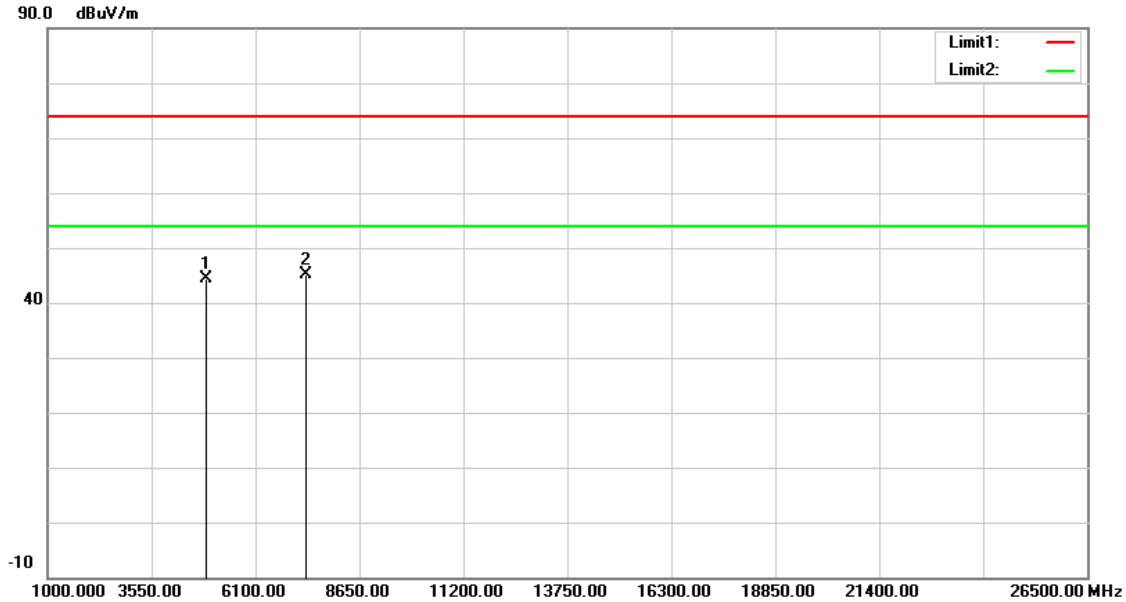
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	37.40	5.67	43.07	74.00	-30.93	peak
2	7311.000	33.36	12.15	45.51	74.00	-28.49	peak

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

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

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

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



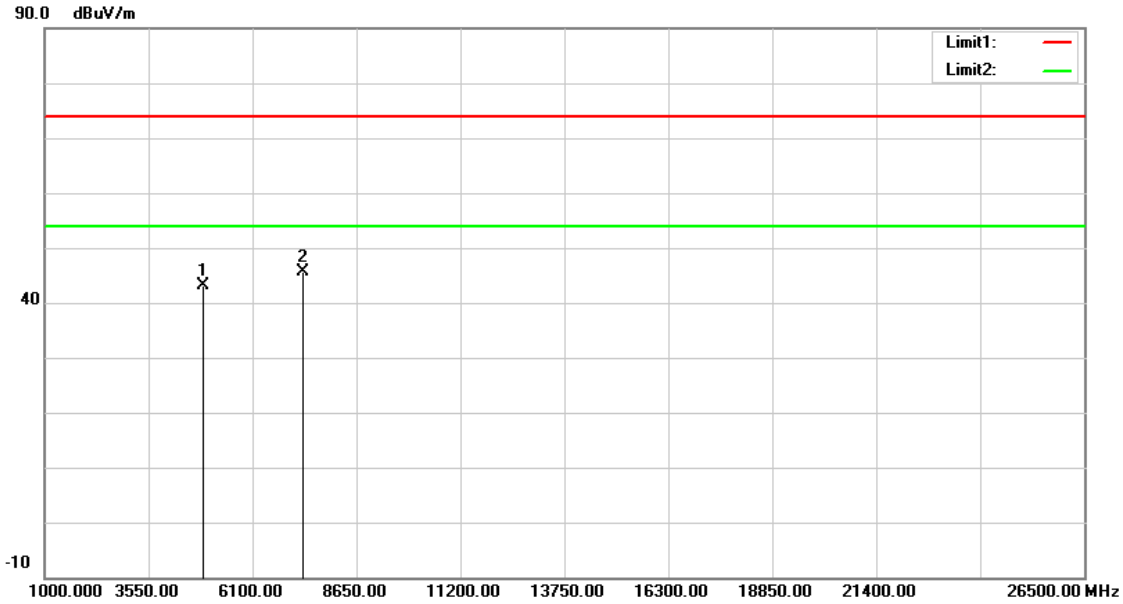
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	38.66	5.73	44.39	74.00	-29.61	peak
2	7356.000	32.89	12.25	45.14	74.00	-28.86	peak

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	37.38	5.73	43.11	74.00	-30.89	peak
2	7356.000	33.38	12.25	45.63	74.00	-28.37	peak

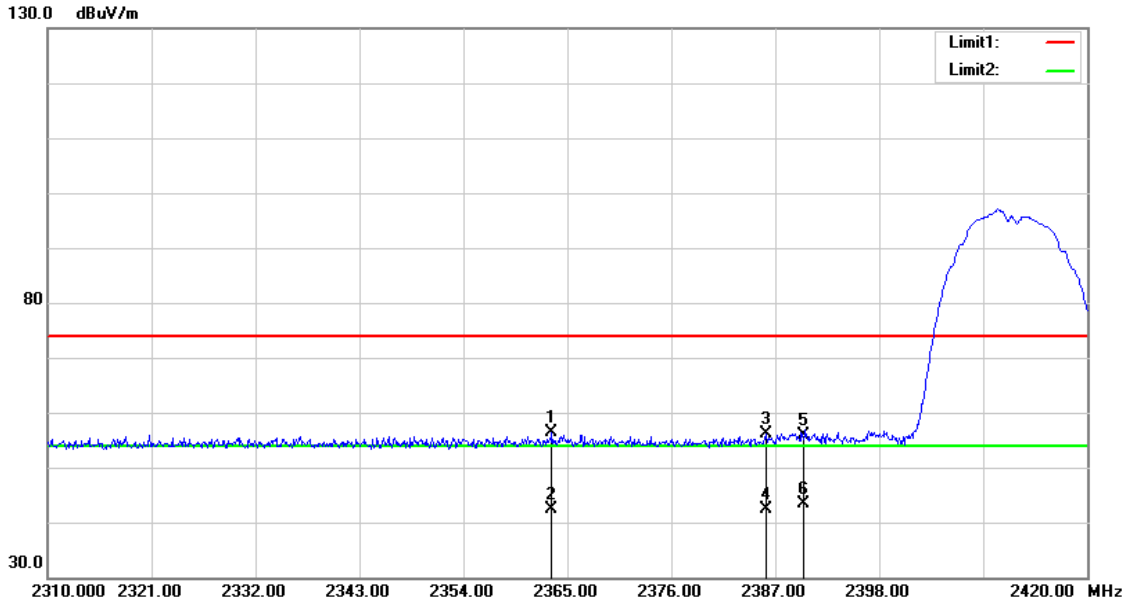
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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

Band Edge

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



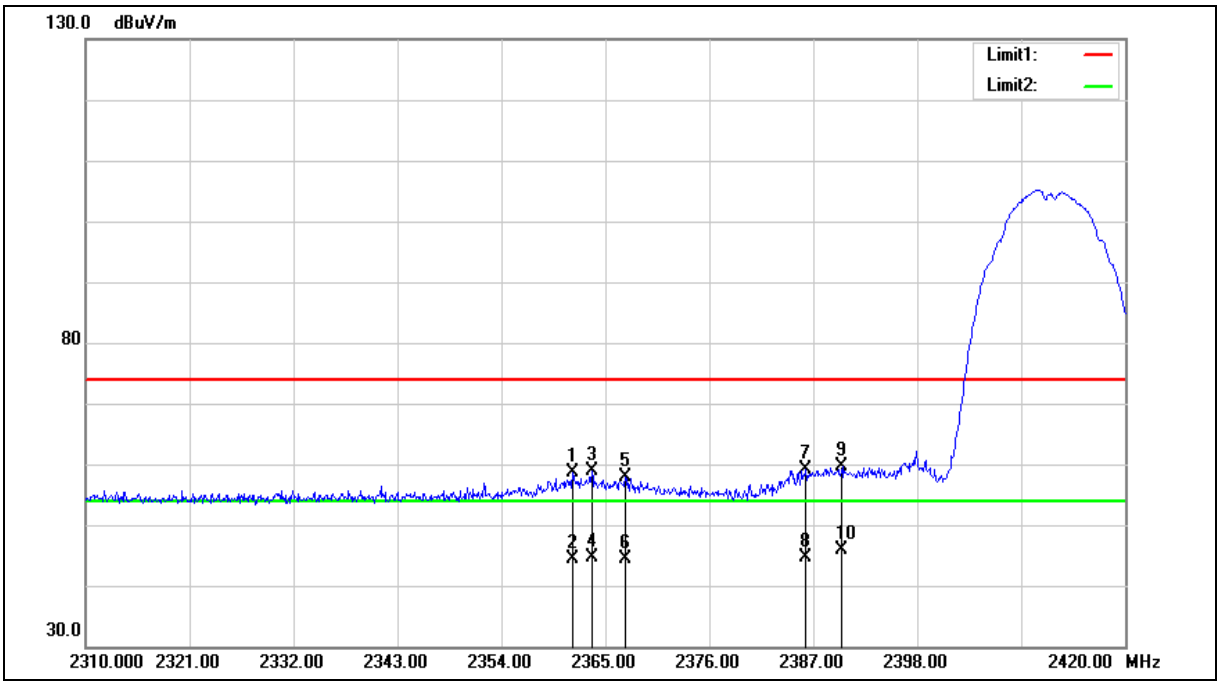
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2363.350	57.61	-1.14	56.47	74.00	-17.53	peak
2	2363.350	43.41	-1.14	42.27	54.00	-11.73	AVG
3	2386.010	57.13	-1.07	56.06	74.00	-17.94	peak
4	2386.010	43.53	-1.07	42.46	54.00	-11.54	AVG
5	2390.000	56.98	-1.05	55.93	74.00	-18.07	peak
6	2390.000	44.34	-1.05	43.29	54.00	-10.71	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

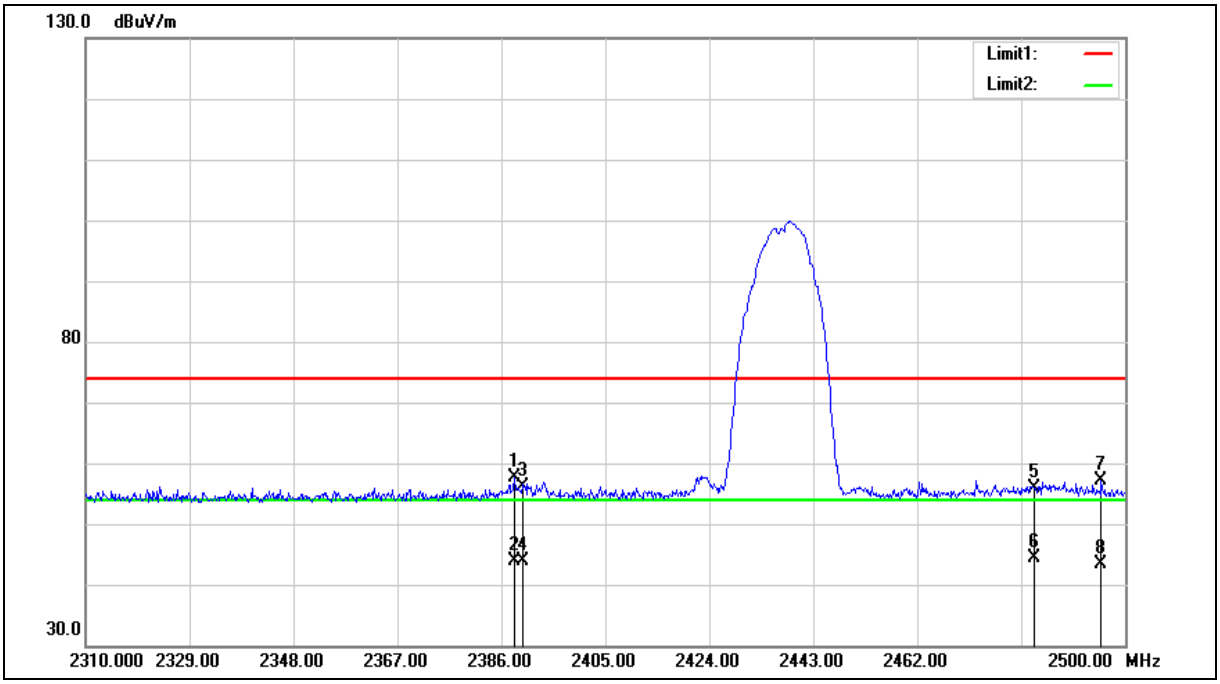
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2361.480	59.71	-1.15	58.56	74.00	-15.44	peak
2	2361.480	45.63	-1.15	44.48	54.00	-9.52	AVG
3	2363.570	59.95	-1.13	58.82	74.00	-15.18	peak
4	2363.570	45.69	-1.13	44.56	54.00	-9.44	AVG
5	2367.090	58.92	-1.13	57.79	74.00	-16.21	peak
6	2367.090	45.43	-1.13	44.30	54.00	-9.70	AVG
7	2386.230	60.28	-1.07	59.21	74.00	-14.79	peak
8	2386.230	45.60	-1.07	44.53	54.00	-9.47	AVG
9	2390.000	60.60	-1.05	59.55	74.00	-14.45	peak
10	2390.000	47.00	-1.05	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:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

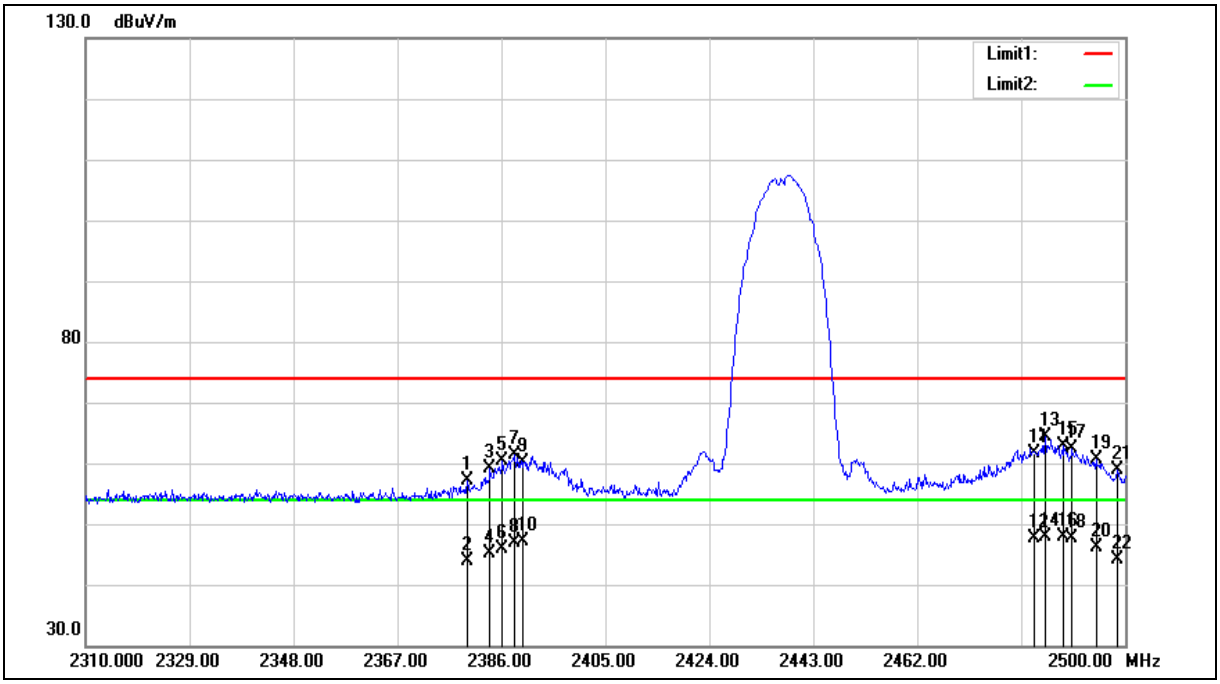
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.470	58.69	-1.05	57.64	74.00	-16.36	peak
2	2388.470	44.99	-1.05	43.94	54.00	-10.06	AVG
3	2390.000	57.16	-1.05	56.11	74.00	-17.89	peak
4	2390.000	44.89	-1.05	43.84	54.00	-10.16	AVG
5	2483.500	56.61	-0.70	55.91	74.00	-18.09	peak
6	2483.500	45.00	-0.70	44.30	54.00	-9.70	AVG
7	2495.630	57.89	-0.66	57.23	74.00	-16.77	peak
8	2495.630	44.03	-0.66	43.37	54.00	-10.63	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.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

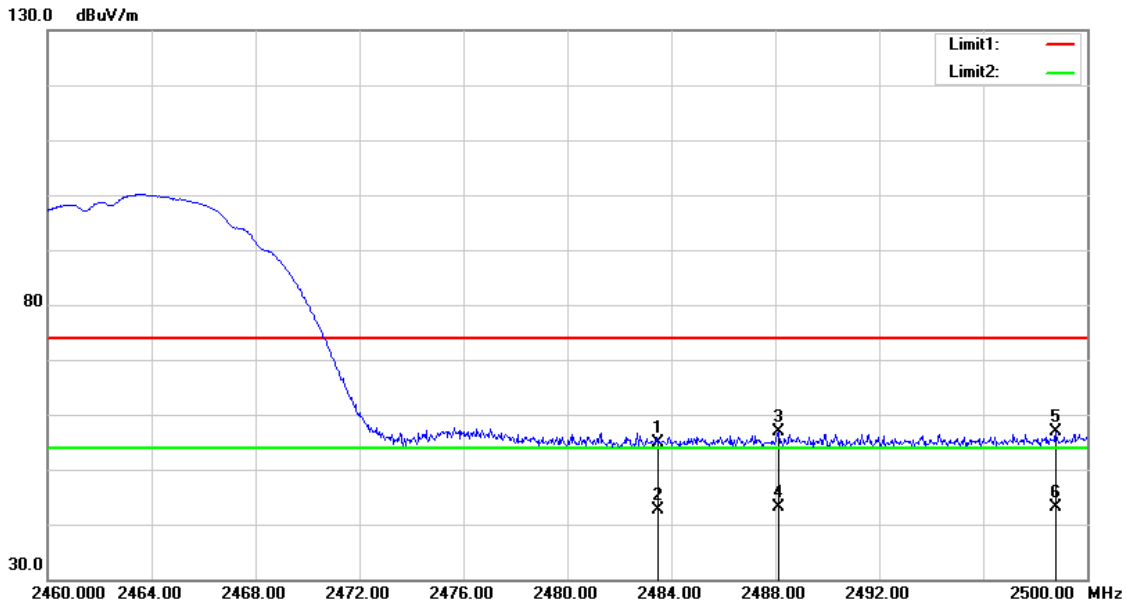
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2379.730	58.09	-1.08	57.01	74.00	-16.99	peak
2	2379.730	44.85	-1.08	43.77	54.00	-10.23	AVG
3	2383.910	60.08	-1.07	59.01	74.00	-14.99	peak
4	2383.910	46.10	-1.07	45.03	54.00	-8.97	AVG
5	2386.190	61.33	-1.07	60.26	74.00	-13.74	peak
6	2386.190	46.96	-1.07	45.89	54.00	-8.11	AVG
7	2388.280	62.52	-1.05	61.47	74.00	-12.53	peak
8	2388.280	48.00	-1.05	46.95	54.00	-7.05	AVG
9	2390.000	61.08	-1.05	60.03	74.00	-13.97	peak
10	2390.000	48.10	-1.05	47.05	54.00	-6.95	AVG
11	2483.500	62.35	-0.70	61.65	74.00	-12.35	peak
12	2483.500	48.43	-0.70	47.73	54.00	-6.27	AVG
13	2485.370	65.07	-0.70	64.37	74.00	-9.63	peak
14	2485.370	48.53	-0.70	47.83	54.00	-6.17	AVG
15	2488.790	63.45	-0.68	62.77	74.00	-11.23	peak
16	2488.790	48.62	-0.68	47.94	54.00	-6.06	AVG
17	2490.310	62.99	-0.68	62.31	74.00	-11.69	peak
18	2490.310	48.34	-0.68	47.66	54.00	-6.34	AVG
19	2494.680	61.35	-0.66	60.69	74.00	-13.31	peak
20	2494.680	46.80	-0.66	46.14	54.00	-7.86	AVG
21	2498.670	59.46	-0.64	58.82	74.00	-15.18	peak
22	2498.670	44.72	-0.64	44.08	54.00	-9.92	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



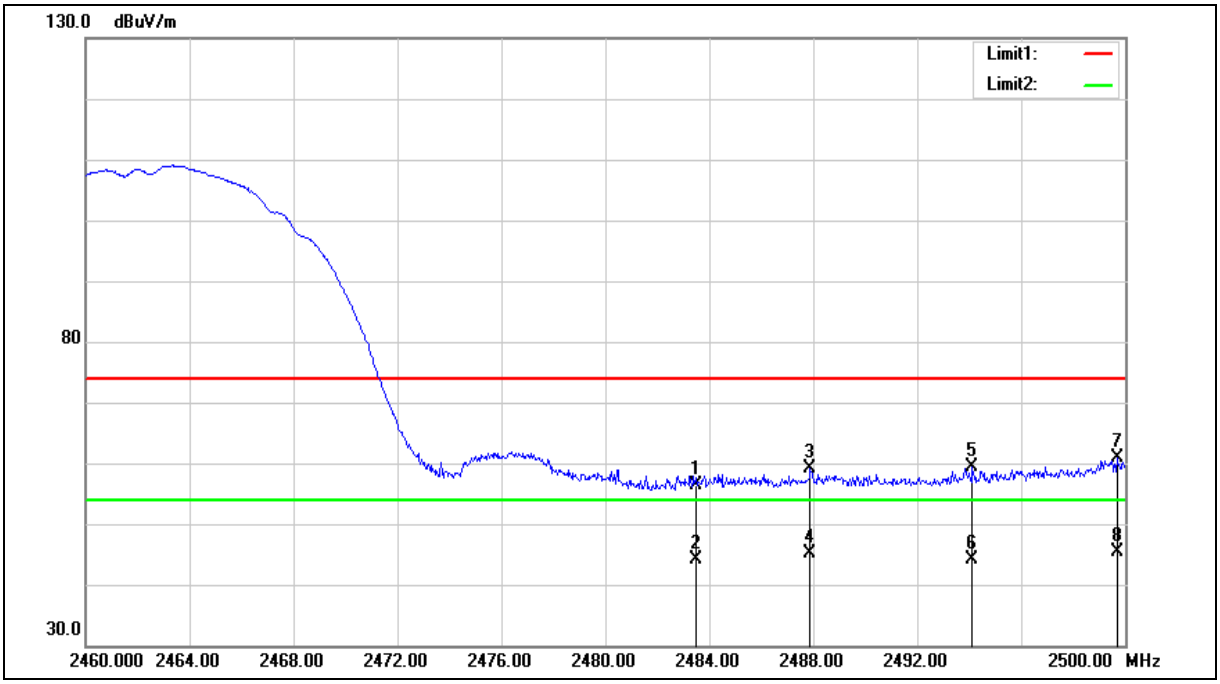
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	55.58	-0.70	54.88	74.00	-19.12	peak
2	2483.500	43.44	-0.70	42.74	54.00	-11.26	AVG
3	2488.120	57.44	-0.68	56.76	74.00	-17.24	peak
4	2488.120	43.75	-0.68	43.07	54.00	-10.93	AVG
5	2498.800	57.47	-0.64	56.83	74.00	-17.17	peak
6	2498.800	43.86	-0.64	43.22	54.00	-10.78	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

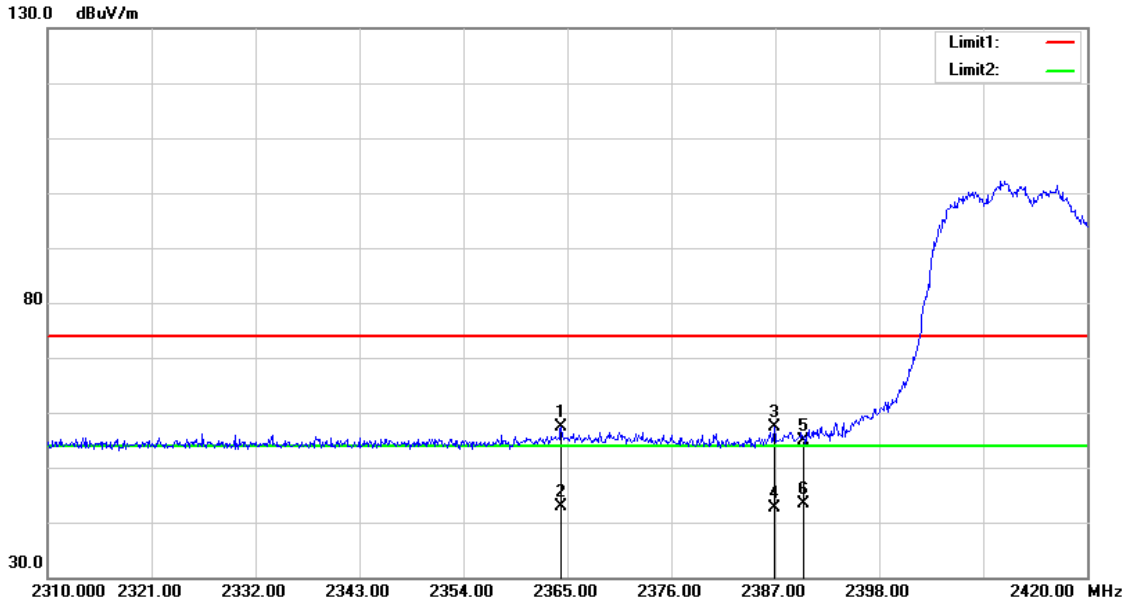
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	57.20	-0.70	56.50	74.00	-17.50	peak
2	2483.500	44.83	-0.70	44.13	54.00	-9.87	AVG
3	2487.880	59.80	-0.68	59.12	74.00	-14.88	peak
4	2487.880	45.80	-0.68	45.12	54.00	-8.88	AVG
5	2494.120	60.10	-0.67	59.43	74.00	-14.57	peak
6	2494.120	44.89	-0.67	44.22	54.00	-9.78	AVG
7	2499.680	61.52	-0.64	60.88	74.00	-13.12	peak
8	2499.680	45.93	-0.64	45.29	54.00	-8.71	AVG

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

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

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

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



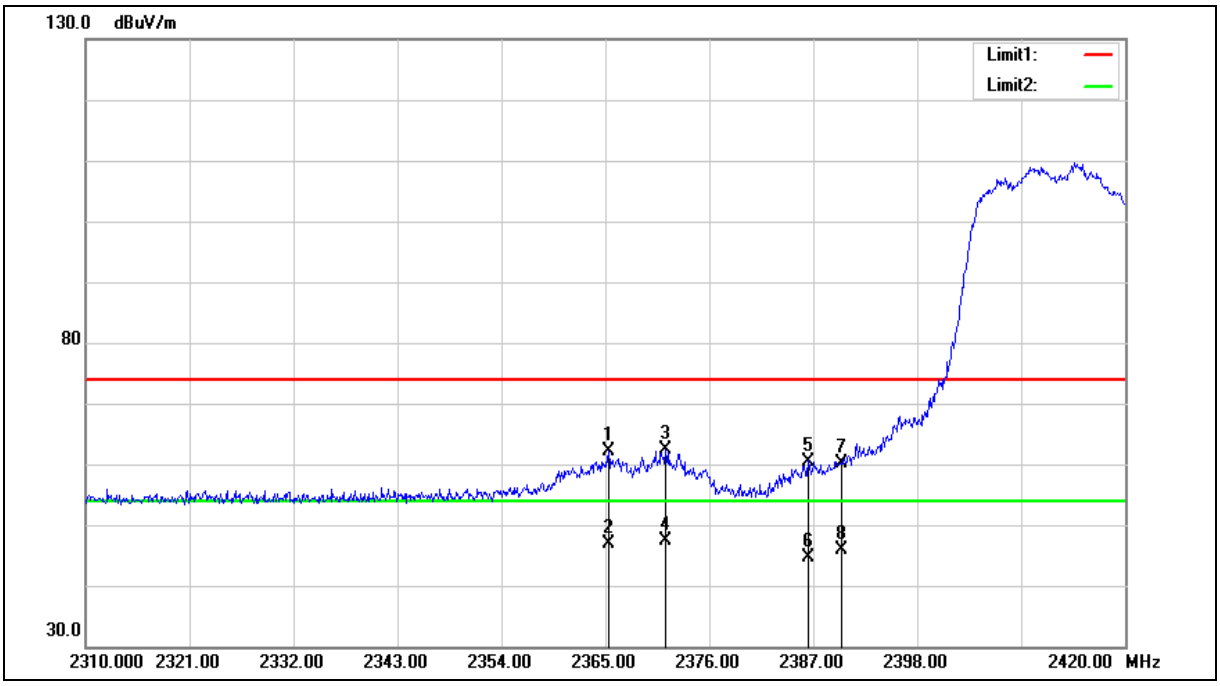
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2364.340	58.45	-1.13	57.32	74.00	-16.68	peak
2	2364.340	44.02	-1.13	42.89	54.00	-11.11	AVG
3	2386.890	58.48	-1.06	57.42	74.00	-16.58	peak
4	2386.890	43.67	-1.06	42.61	54.00	-11.39	AVG
5	2390.000	55.87	-1.05	54.82	74.00	-19.18	peak
6	2390.000	44.47	-1.05	43.42	54.00	-10.58	AVG

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

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

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

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



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

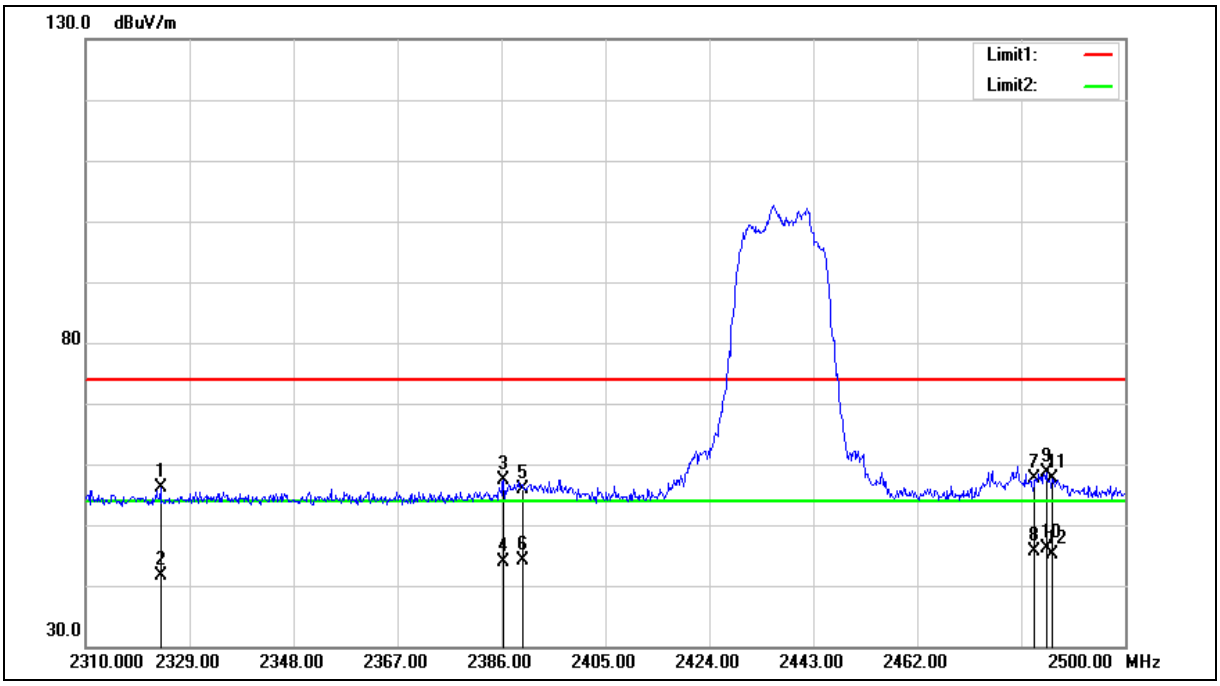
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2365.330	63.29	-1.13	62.16	74.00	-11.84	peak
2	2365.330	48.02	-1.13	46.89	54.00	-7.11	AVG
3	2371.380	63.51	-1.10	62.41	74.00	-11.59	peak
4	2371.380	48.54	-1.10	47.44	54.00	-6.56	AVG
5	2386.450	61.57	-1.07	60.50	74.00	-13.50	peak
6	2386.450	45.72	-1.07	44.65	54.00	-9.35	AVG
7	2390.000	61.13	-1.05	60.08	74.00	-13.92	peak
8	2390.000	46.97	-1.05	45.92	54.00	-8.08	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

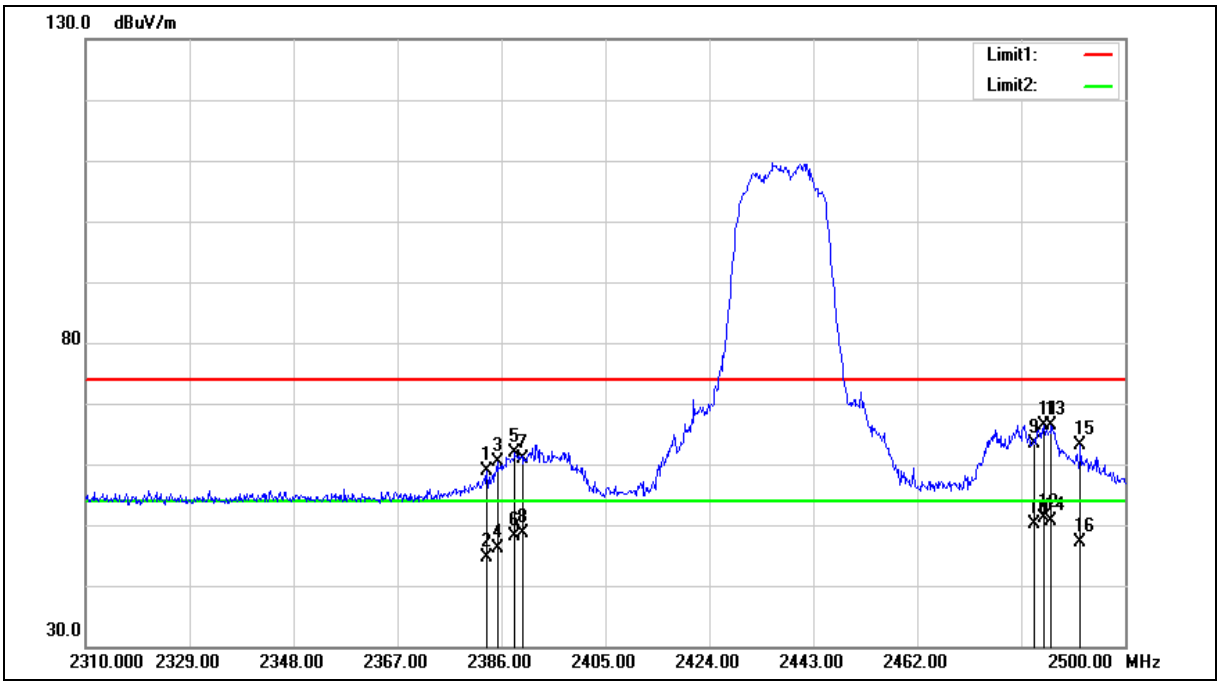
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2323.680	57.39	-1.29	56.10	74.00	-17.90	peak
2	2323.680	42.98	-1.29	41.69	54.00	-12.31	AVG
3	2386.380	58.49	-1.07	57.42	74.00	-16.58	peak
4	2386.380	44.98	-1.07	43.91	54.00	-10.09	AVG
5	2390.000	57.04	-1.05	55.99	74.00	-18.01	peak
6	2390.000	45.20	-1.05	44.15	54.00	-9.85	AVG
7	2483.500	58.39	-0.70	57.69	74.00	-16.31	peak
8	2483.500	46.44	-0.70	45.74	54.00	-8.26	AVG
9	2485.560	59.44	-0.70	58.74	74.00	-15.26	peak
10	2485.560	46.90	-0.70	46.20	54.00	-7.80	AVG
11	2486.700	58.40	-0.69	57.71	74.00	-16.29	peak
12	2486.700	45.85	-0.69	45.16	54.00	-8.84	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

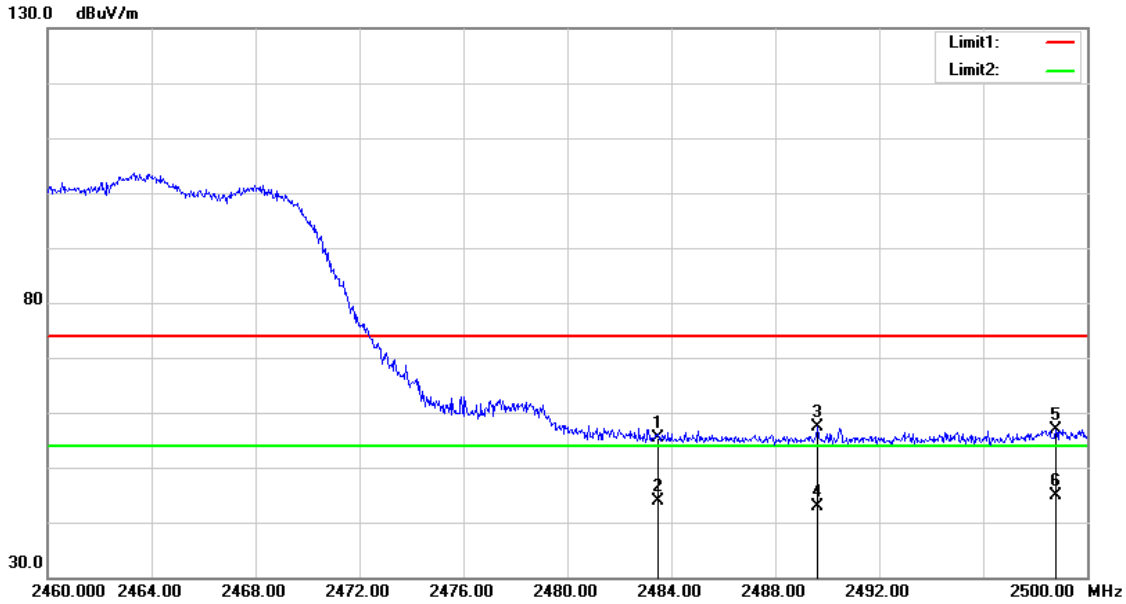
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.340	59.85	-1.07	58.78	74.00	-15.22	peak
2	2383.340	45.59	-1.07	44.52	54.00	-9.48	AVG
3	2385.240	61.33	-1.07	60.26	74.00	-13.74	peak
4	2385.240	47.18	-1.07	46.11	54.00	-7.89	AVG
5	2388.470	62.86	-1.05	61.81	74.00	-12.19	peak
6	2388.470	49.07	-1.05	48.02	54.00	-5.98	AVG
7	2390.000	61.87	-1.05	60.82	74.00	-13.18	peak
8	2390.000	49.73	-1.05	48.68	54.00	-5.32	AVG
9	2483.500	64.02	-0.70	63.32	74.00	-10.68	peak
10	2483.500	50.85	-0.70	50.15	54.00	-3.85	AVG
11	2485.180	67.14	-0.70	66.44	74.00	-7.56	peak
12	2485.180	51.78	-0.70	51.08	54.00	-2.92	AVG
13	2486.510	66.98	-0.70	66.28	74.00	-7.72	peak
14	2486.510	51.32	-0.70	50.62	54.00	-3.38	AVG
15	2491.830	63.86	-0.67	63.19	74.00	-10.81	peak
16	2491.830	47.85	-0.67	47.18	54.00	-6.82	AVG

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

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

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

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



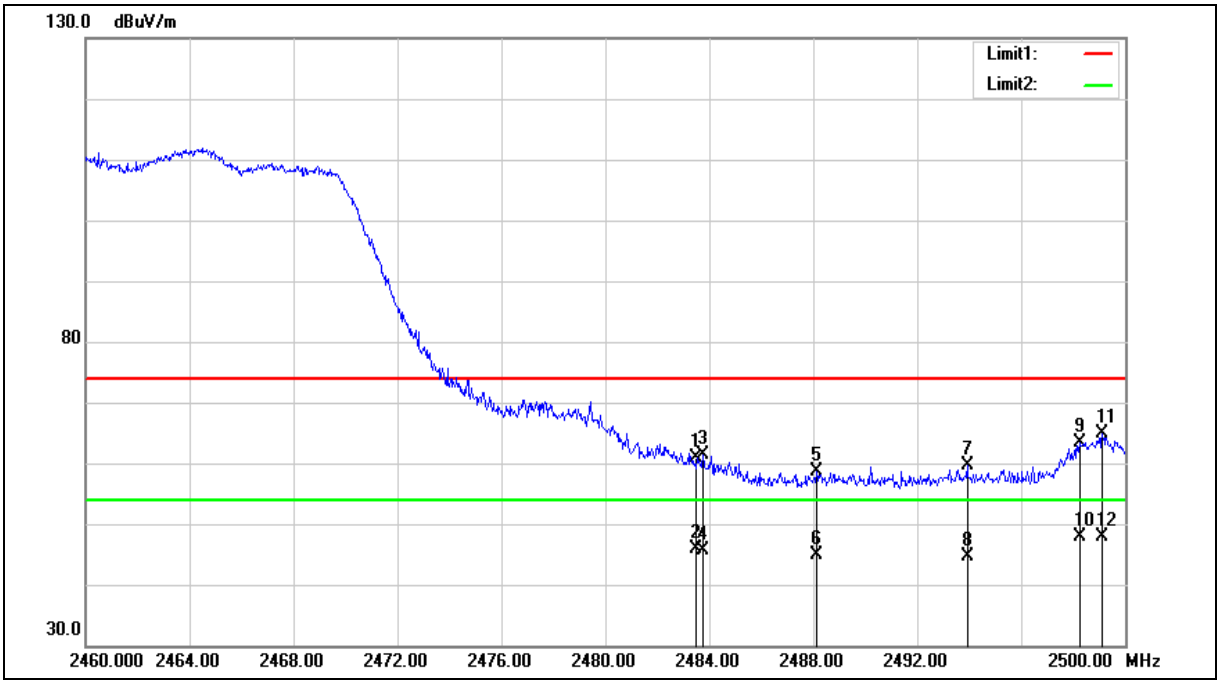
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	56.19	-0.70	55.49	74.00	-18.51	peak
2	2483.500	44.54	-0.70	43.84	54.00	-10.16	AVG
3	2489.640	58.02	-0.68	57.34	74.00	-16.66	peak
4	2489.640	43.60	-0.68	42.92	54.00	-11.08	AVG
5	2498.800	57.62	-0.64	56.98	74.00	-17.02	peak
6	2498.800	45.44	-0.64	44.80	54.00	-9.20	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	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



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

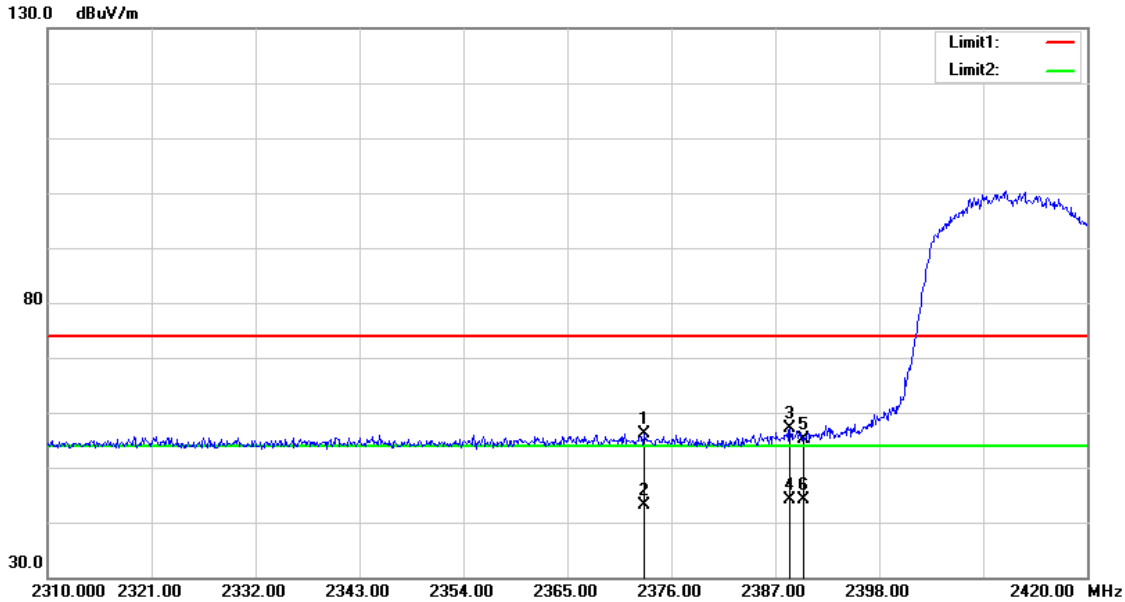
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	61.47	-0.70	60.77	74.00	-13.23	peak
2	2483.500	46.67	-0.70	45.97	54.00	-8.03	AVG
3	2483.760	61.96	-0.70	61.26	74.00	-12.74	peak
4	2483.760	46.34	-0.70	45.64	54.00	-8.36	AVG
5	2488.120	59.34	-0.68	58.66	74.00	-15.34	peak
6	2488.120	45.51	-0.68	44.83	54.00	-9.17	AVG
7	2493.920	60.41	-0.67	59.74	74.00	-14.26	peak
8	2493.920	45.27	-0.67	44.60	54.00	-9.40	AVG
9	2498.240	64.13	-0.64	63.49	74.00	-10.51	peak
10	2498.240	48.58	-0.64	47.94	54.00	-6.06	AVG
11	2499.120	65.62	-0.64	64.98	74.00	-9.02	peak
12	2499.120	48.53	-0.64	47.89	54.00	-6.11	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.

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



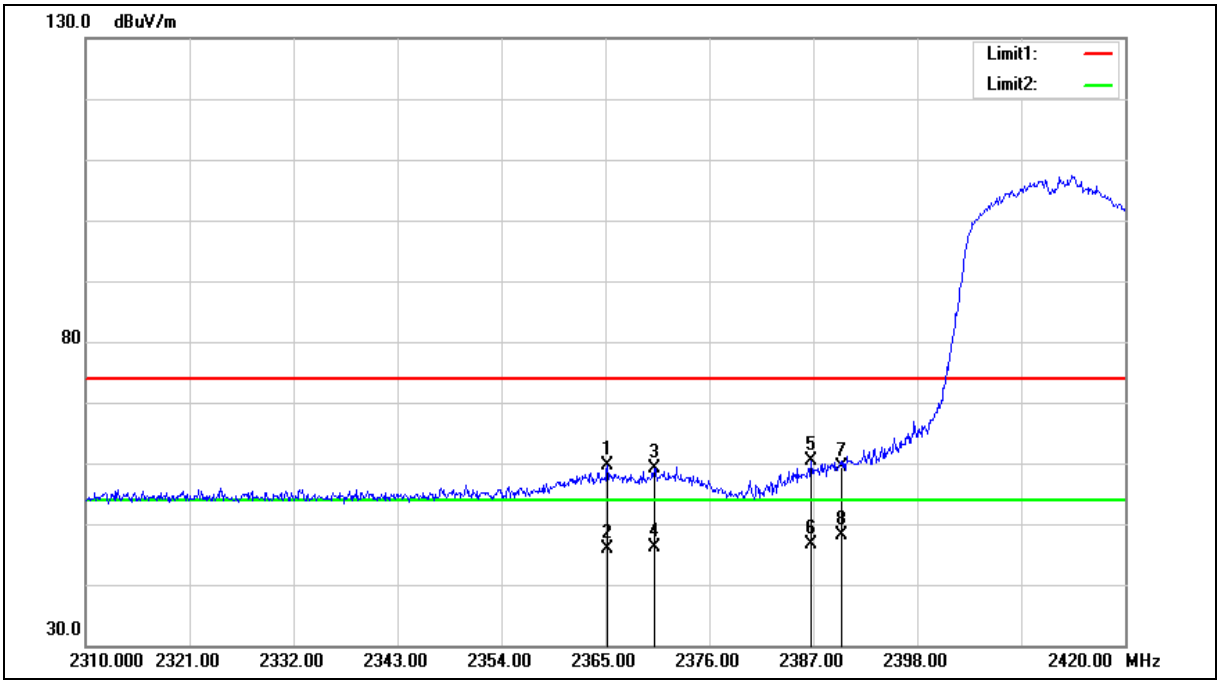
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2373.140	57.27	-1.10	56.17	74.00	-17.83	peak
2	2373.140	44.34	-1.10	43.24	54.00	-10.76	AVG
3	2388.540	58.13	-1.05	57.08	74.00	-16.92	peak
4	2388.540	45.12	-1.05	44.07	54.00	-9.93	AVG
5	2390.000	56.10	-1.05	55.05	74.00	-18.95	peak
6	2390.000	45.30	-1.05	44.25	54.00	-9.75	AVG

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

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

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

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



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

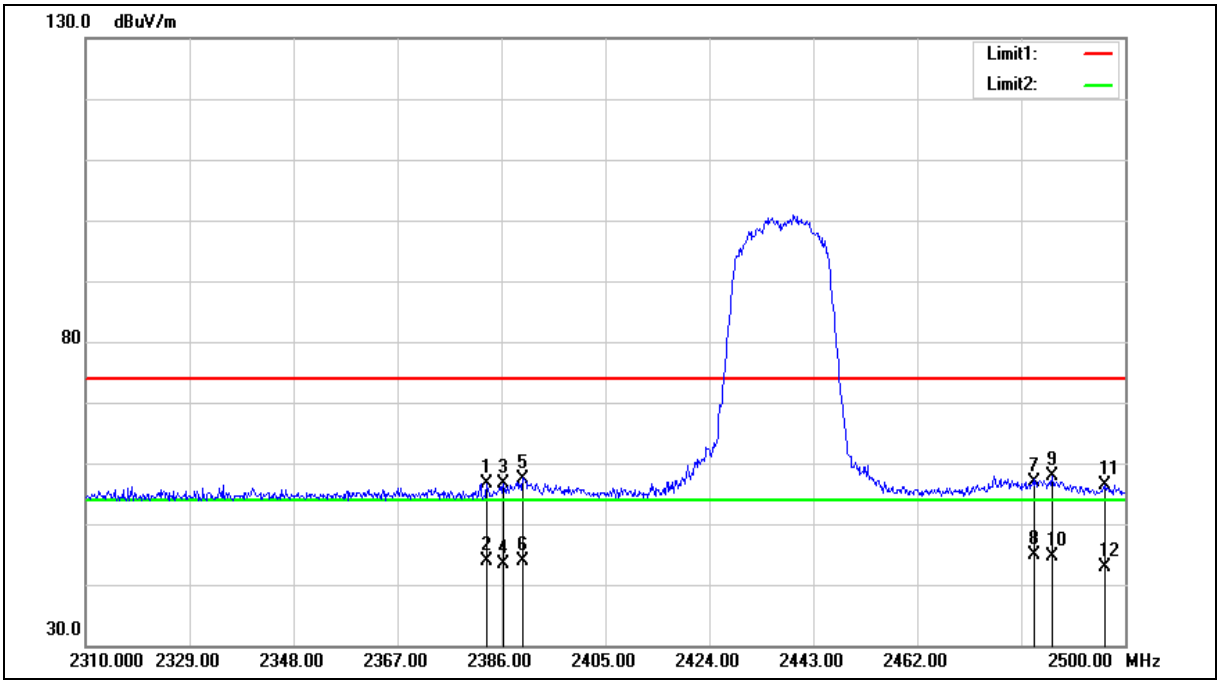
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2365.220	60.68	-1.13	59.55	74.00	-14.45	peak
2	2365.220	46.92	-1.13	45.79	54.00	-8.21	AVG
3	2370.170	60.31	-1.12	59.19	74.00	-14.81	peak
4	2370.170	47.13	-1.12	46.01	54.00	-7.99	AVG
5	2386.780	61.38	-1.06	60.32	74.00	-13.68	peak
6	2386.780	47.78	-1.06	46.72	54.00	-7.28	AVG
7	2390.000	60.38	-1.05	59.33	74.00	-14.67	peak
8	2390.000	49.12	-1.05	48.07	54.00	-5.93	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

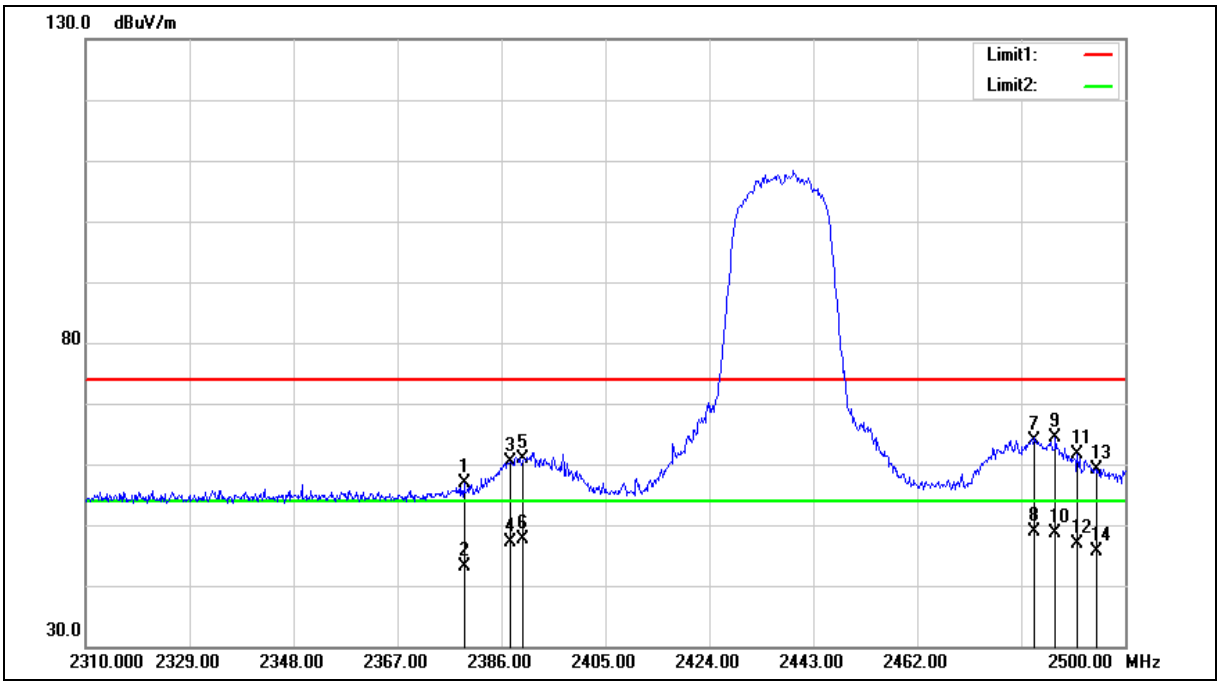
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.340	57.66	-1.07	56.59	74.00	-17.41	peak
2	2383.340	45.04	-1.07	43.97	54.00	-10.03	AVG
3	2386.380	57.60	-1.07	56.53	74.00	-17.47	peak
4	2386.380	44.41	-1.07	43.34	54.00	-10.66	AVG
5	2390.000	58.45	-1.05	57.40	74.00	-16.60	peak
6	2390.000	44.82	-1.05	43.77	54.00	-10.23	AVG
7	2483.500	57.49	-0.70	56.79	74.00	-17.21	peak
8	2483.500	45.48	-0.70	44.78	54.00	-9.22	AVG
9	2486.700	58.49	-0.69	57.80	74.00	-16.20	peak
10	2486.700	45.24	-0.69	44.55	54.00	-9.45	AVG
11	2496.390	57.11	-0.65	56.46	74.00	-17.54	peak
12	2496.390	43.59	-0.65	42.94	54.00	-11.06	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:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

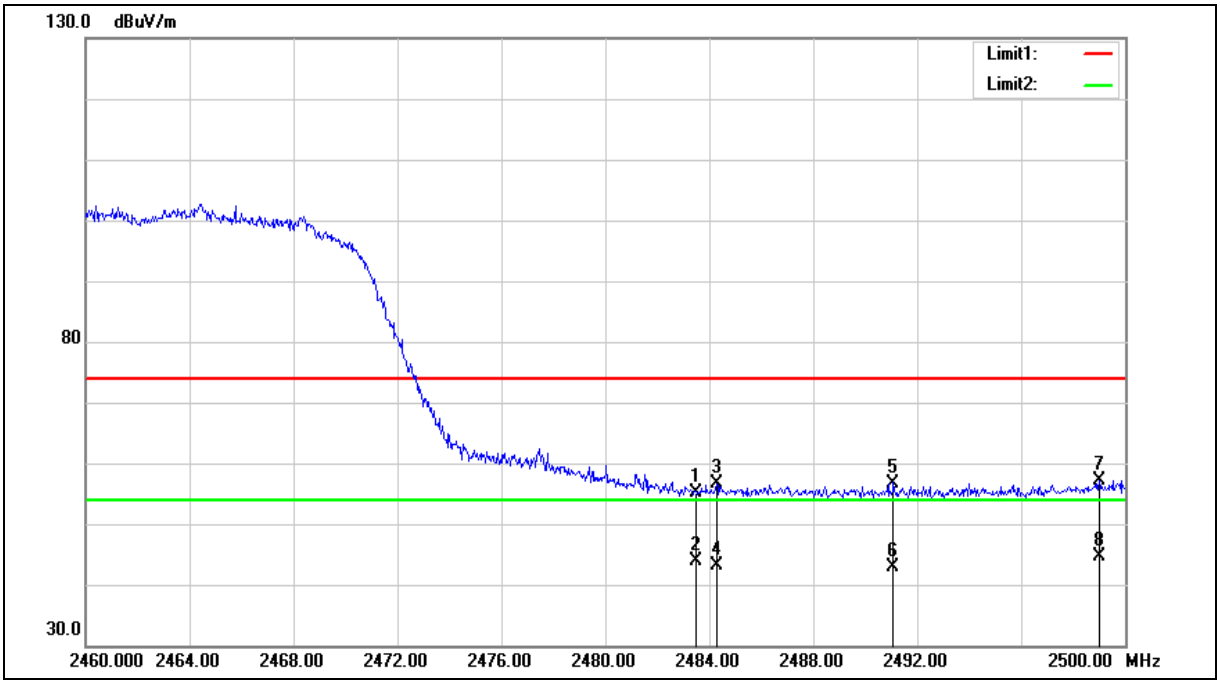
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2379.160	57.93	-1.09	56.84	74.00	-17.16	peak
2	2379.160	44.12	-1.09	43.03	54.00	-10.97	AVG
3	2387.520	61.40	-1.05	60.35	74.00	-13.65	peak
4	2387.520	48.23	-1.05	47.18	54.00	-6.82	AVG
5	2390.000	61.98	-1.05	60.93	74.00	-13.07	peak
6	2390.000	48.60	-1.05	47.55	54.00	-6.45	AVG
7	2483.500	64.55	-0.70	63.85	74.00	-10.15	peak
8	2483.500	49.57	-0.70	48.87	54.00	-5.13	AVG
9	2487.270	64.97	-0.69	64.28	74.00	-9.72	peak
10	2487.270	49.38	-0.69	48.69	54.00	-5.31	AVG
11	2491.260	62.39	-0.67	61.72	74.00	-12.28	peak
12	2491.260	47.66	-0.67	46.99	54.00	-7.01	AVG
13	2494.680	59.90	-0.66	59.24	74.00	-14.76	peak
14	2494.680	46.35	-0.66	45.69	54.00	-8.31	AVG

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

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

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

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



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

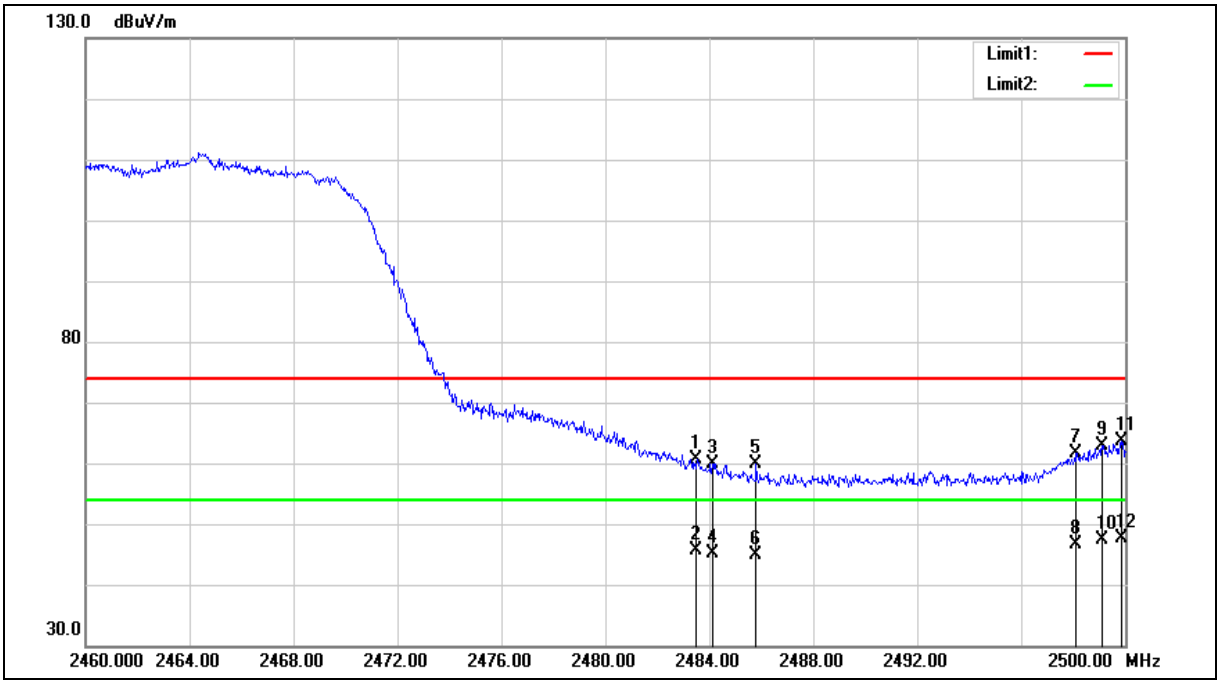
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	55.91	-0.70	55.21	74.00	-18.79	peak
2	2483.500	44.50	-0.70	43.80	54.00	-10.20	AVG
3	2484.280	57.28	-0.70	56.58	74.00	-17.42	peak
4	2484.280	43.90	-0.70	43.20	54.00	-10.80	AVG
5	2491.080	57.42	-0.67	56.75	74.00	-17.25	peak
6	2491.080	43.45	-0.67	42.78	54.00	-11.22	AVG
7	2499.000	57.88	-0.64	57.24	74.00	-16.76	peak
8	2499.000	45.26	-0.64	44.62	54.00	-9.38	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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



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

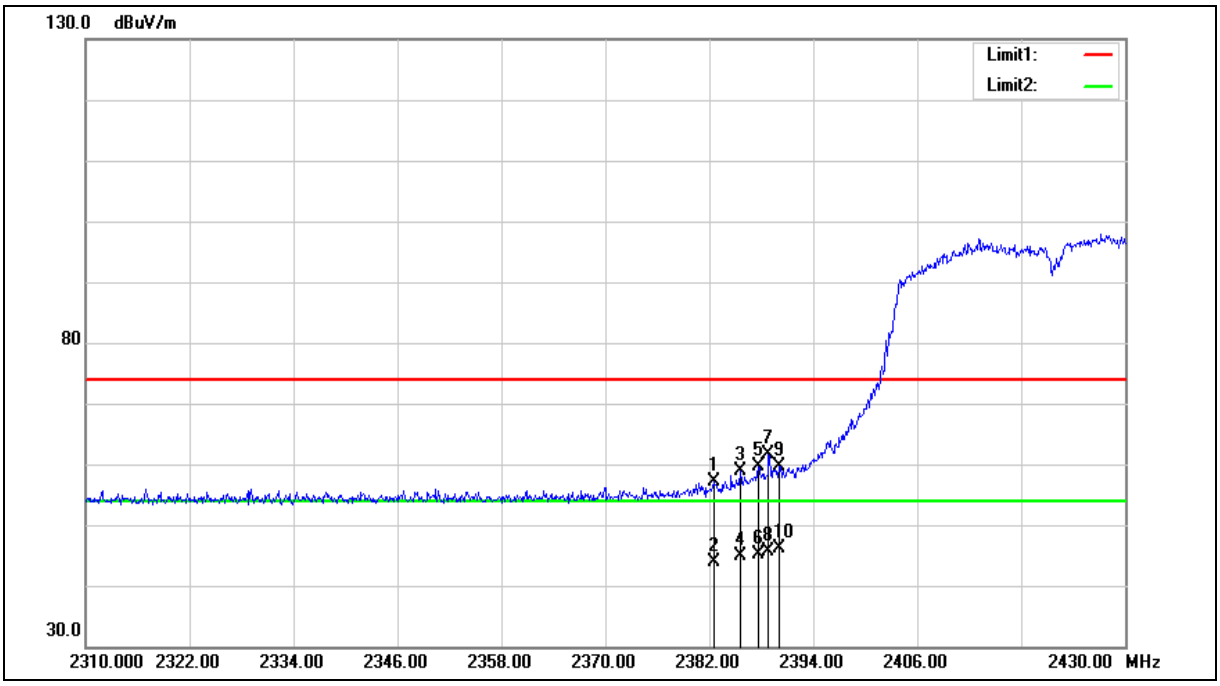
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	61.44	-0.70	60.74	74.00	-13.26	peak
2	2483.500	46.32	-0.70	45.62	54.00	-8.38	AVG
3	2484.120	60.67	-0.70	59.97	74.00	-14.03	peak
4	2484.120	45.92	-0.70	45.22	54.00	-8.78	AVG
5	2485.800	60.57	-0.70	59.87	74.00	-14.13	peak
6	2485.800	45.53	-0.70	44.83	54.00	-9.17	AVG
7	2498.080	62.20	-0.64	61.56	74.00	-12.44	peak
8	2498.080	47.33	-0.64	46.69	54.00	-7.31	AVG
9	2499.120	63.61	-0.64	62.97	74.00	-11.03	peak
10	2499.120	47.97	-0.64	47.33	54.00	-6.67	AVG
11	2499.840	64.26	-0.64	63.62	74.00	-10.38	peak
12	2499.840	48.22	-0.64	47.58	54.00	-6.42	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	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

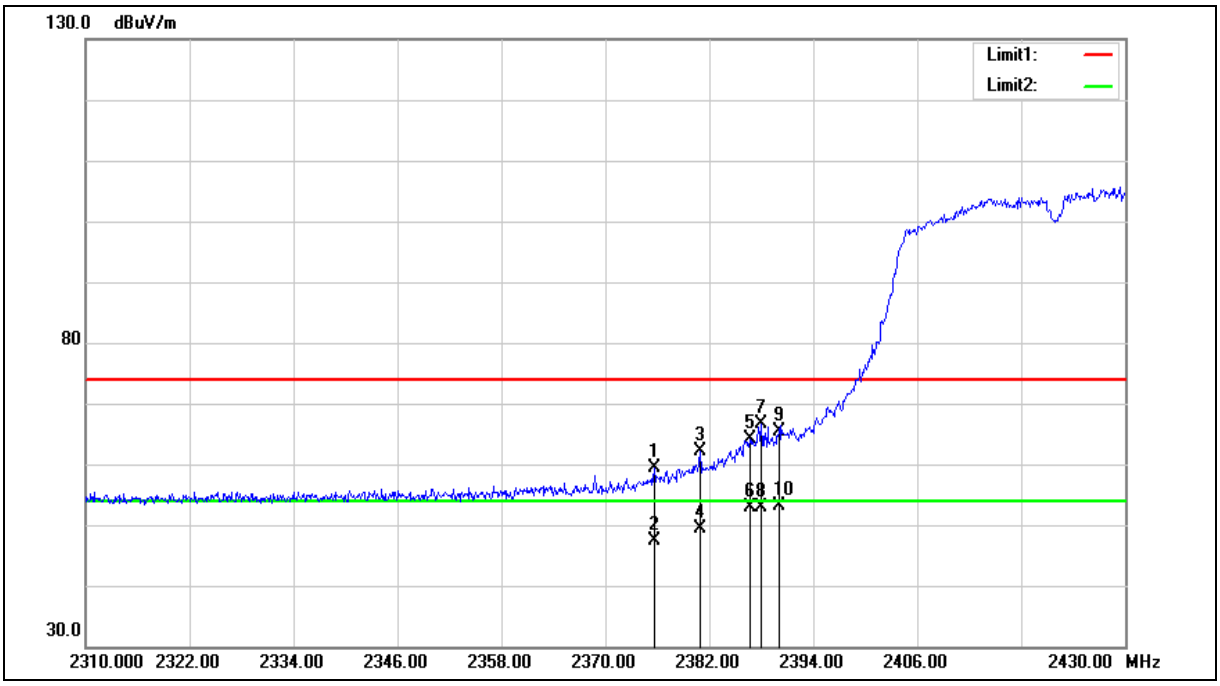
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2382.480	58.10	-1.08	57.02	74.00	-16.98	peak
2	2382.480	44.86	-1.08	43.78	54.00	-10.22	AVG
3	2385.600	59.93	-1.07	58.86	74.00	-15.14	peak
4	2385.600	45.87	-1.07	44.80	54.00	-9.20	AVG
5	2387.640	60.56	-1.05	59.51	74.00	-14.49	peak
6	2387.640	46.20	-1.05	45.15	54.00	-8.85	AVG
7	2388.840	62.63	-1.05	61.58	74.00	-12.42	peak
8	2388.840	46.77	-1.05	45.72	54.00	-8.28	AVG
9	2390.000	60.77	-1.05	59.72	74.00	-14.28	peak
10	2390.000	47.10	-1.05	46.05	54.00	-7.95	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

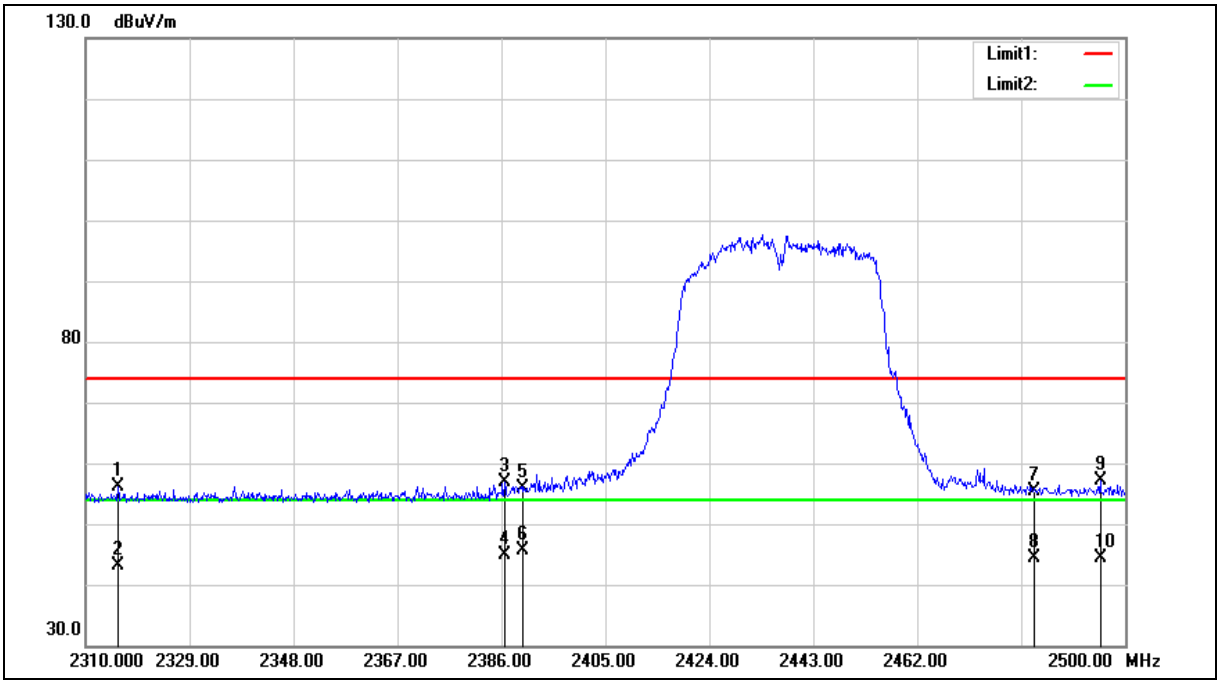
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2375.640	60.44	-1.10	59.34	74.00	-14.66	peak
2	2375.640	48.49	-1.10	47.39	54.00	-6.61	AVG
3	2380.920	63.19	-1.08	62.11	74.00	-11.89	peak
4	2380.920	50.42	-1.08	49.34	54.00	-4.66	AVG
5	2386.680	65.21	-1.06	64.15	74.00	-9.85	peak
6	2386.680	53.92	-1.06	52.86	54.00	-1.14	AVG
7	2388.000	67.61	-1.05	66.56	74.00	-7.44	peak
8	2388.000	53.97	-1.05	52.92	54.00	-1.08	AVG
9	2390.000	66.49	-1.05	65.44	74.00	-8.56	peak
10	2390.000	54.17	-1.05	53.12	54.00	-0.88	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:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

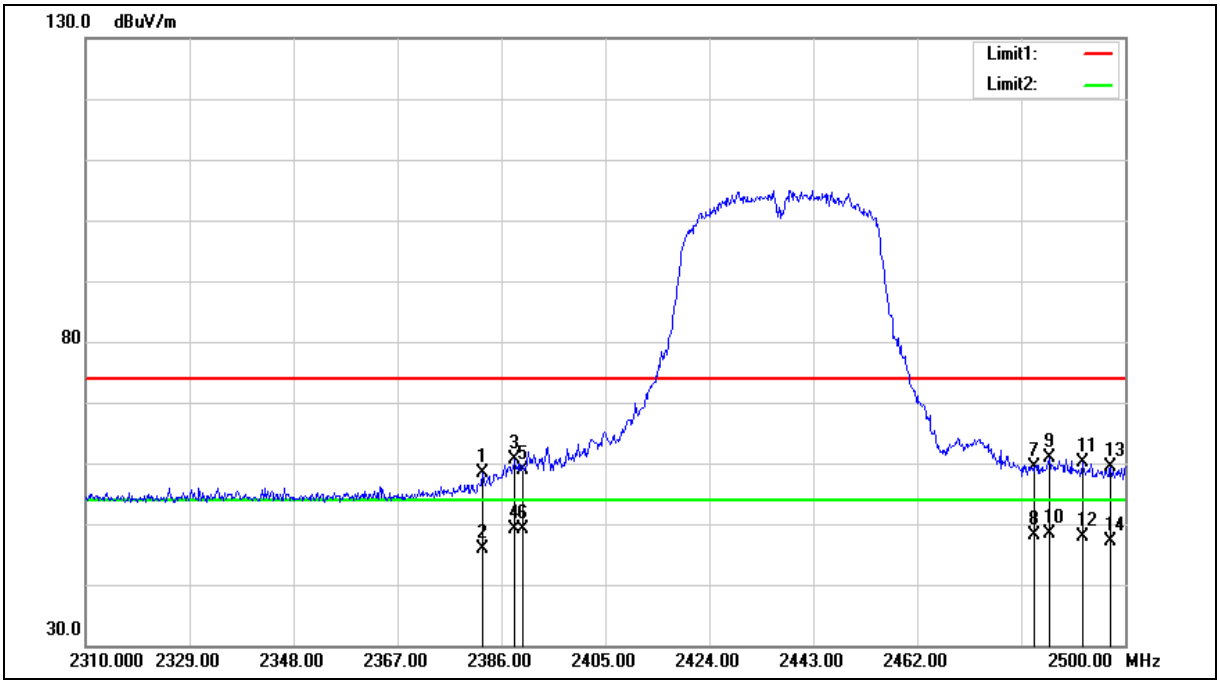
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2315.890	57.56	-1.32	56.24	74.00	-17.76	peak
2	2315.890	44.38	-1.32	43.06	54.00	-10.94	AVG
3	2386.570	57.83	-1.06	56.77	74.00	-17.23	peak
4	2386.570	45.99	-1.06	44.93	54.00	-9.07	AVG
5	2390.000	56.82	-1.05	55.77	74.00	-18.23	peak
6	2390.000	46.74	-1.05	45.69	54.00	-8.31	AVG
7	2483.500	55.99	-0.70	55.29	74.00	-18.71	peak
8	2483.500	45.02	-0.70	44.32	54.00	-9.68	AVG
9	2495.440	57.88	-0.66	57.22	74.00	-16.78	peak
10	2495.440	45.16	-0.66	44.50	54.00	-9.50	AVG

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

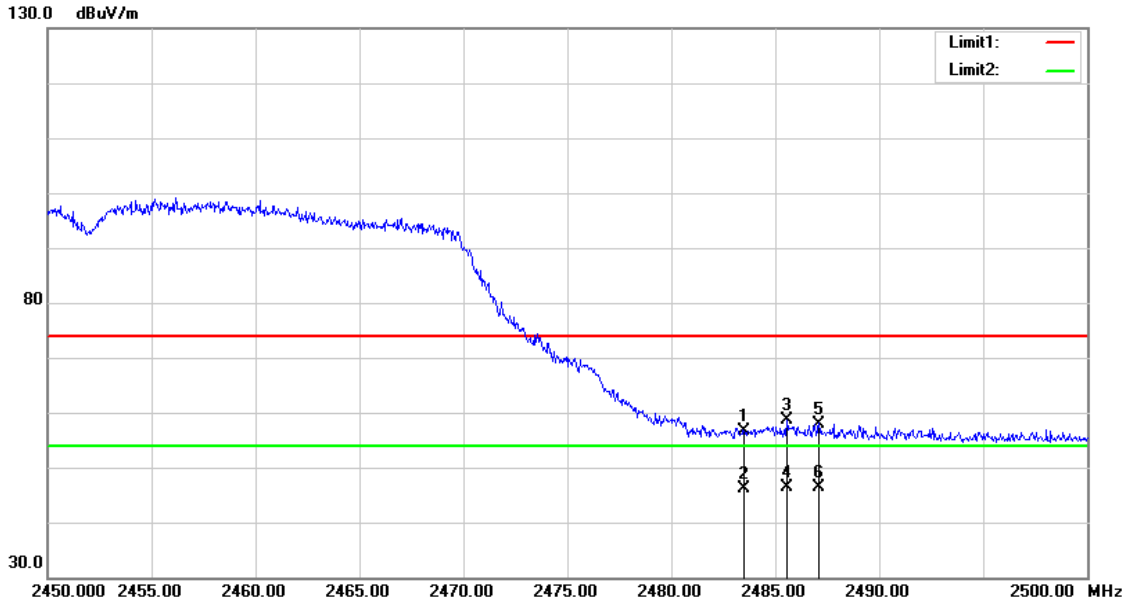
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2382.580	59.48	-1.08	58.40	74.00	-15.60	peak
2	2382.580	47.00	-1.08	45.92	54.00	-8.08	AVG
3	2388.470	61.65	-1.05	60.60	74.00	-13.40	peak
4	2388.470	50.08	-1.05	49.03	54.00	-4.97	AVG
5	2390.000	59.84	-1.05	58.79	74.00	-15.21	peak
6	2390.000	50.25	-1.05	49.20	54.00	-4.80	AVG
7	2483.500	60.04	-0.70	59.34	74.00	-14.66	peak
8	2483.500	48.94	-0.70	48.24	54.00	-5.76	AVG
9	2486.130	61.66	-0.70	60.96	74.00	-13.04	peak
10	2486.130	49.09	-0.70	48.39	54.00	-5.61	AVG
11	2492.210	60.79	-0.67	60.12	74.00	-13.88	peak
12	2492.210	48.43	-0.67	47.76	54.00	-6.24	AVG
13	2497.340	60.03	-0.65	59.38	74.00	-14.62	peak
14	2497.340	47.88	-0.65	47.23	54.00	-6.77	AVG

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

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

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

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



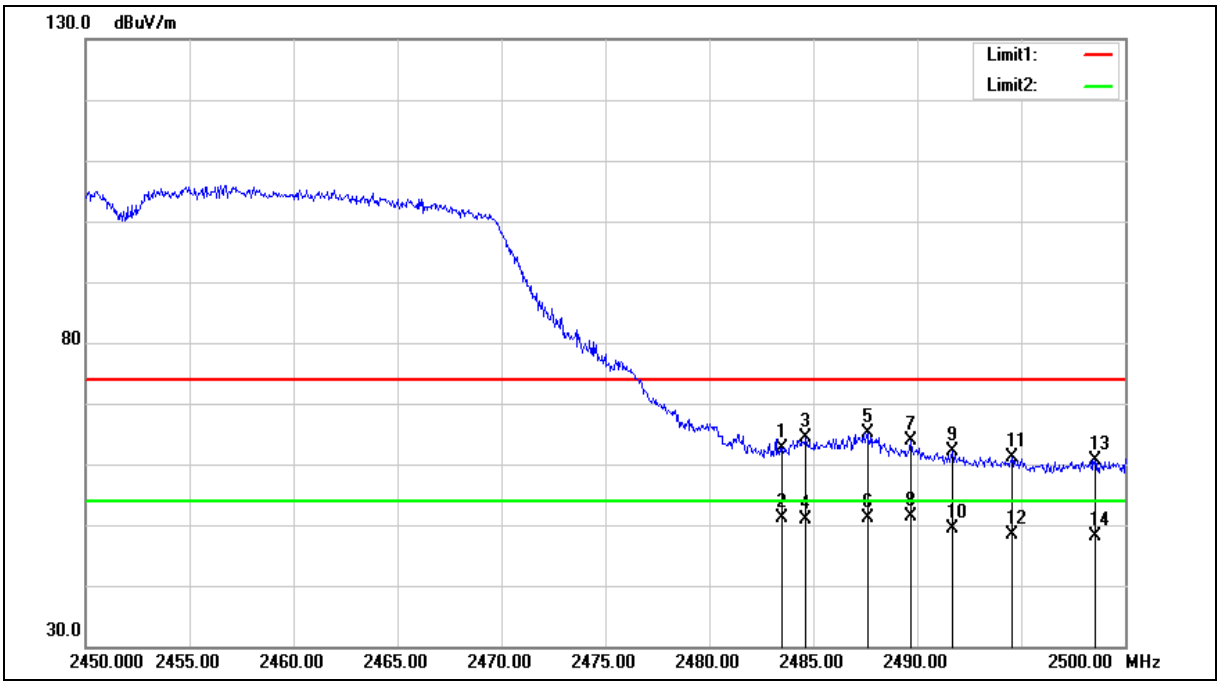
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	57.36	-0.70	56.66	74.00	-17.34	peak
2	2483.500	46.78	-0.70	46.08	54.00	-7.92	AVG
3	2485.550	59.26	-0.70	58.56	74.00	-15.44	peak
4	2485.550	47.01	-0.70	46.31	54.00	-7.69	AVG
5	2487.100	58.69	-0.69	58.00	74.00	-16.00	peak
6	2487.100	47.07	-0.69	46.38	54.00	-7.62	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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



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

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	63.22	-0.70	62.52	74.00	-11.48	peak
2	2483.500	51.90	-0.70	51.20	54.00	-2.80	AVG
3	2484.650	65.16	-0.70	64.46	74.00	-9.54	peak
4	2484.650	51.53	-0.70	50.83	54.00	-3.17	AVG
5	2487.600	65.90	-0.68	65.22	74.00	-8.78	peak
6	2487.600	51.77	-0.68	51.09	54.00	-2.91	AVG
7	2489.700	64.53	-0.68	63.85	74.00	-10.15	peak
8	2489.700	52.08	-0.68	51.40	54.00	-2.60	AVG
9	2491.700	62.73	-0.67	62.06	74.00	-11.94	peak
10	2491.700	50.10	-0.67	49.43	54.00	-4.57	AVG
11	2494.550	61.83	-0.66	61.17	74.00	-12.83	peak
12	2494.550	49.02	-0.66	48.36	54.00	-5.64	AVG
13	2498.550	61.28	-0.64	60.64	74.00	-13.36	peak
14	2498.550	48.84	-0.64	48.20	54.00	-5.80	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.

--- END---