

RF Test Report

Applicant : Edimax Technology Co., Ltd.
Product Type : Air Box
Trade Name : EDIMAX
Model Number : AI-1001W V5
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Received Date : Feb. 11, 2020
Test Period : Feb. 14 ~ Feb. 20, 2020
Issued Date : Feb 25, 2020

Issued by

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



Taiwan Accreditation Foundation accreditation number: 1330

Test Firm MRA designation number: TW0010

Note:

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



Revision History

Rev.	Issued Date	Revisions	Revised By
00	Feb. 25, 2020	Initial Issue	Yu Chiang

Verification of Compliance

Issued Date: Feb. 25, 2020

Applicant : Edimax Technology Co., Ltd.
Product Type : Air Box
Trade Name : EDIMAX
Model Number : AI-1001W V5
FCC ID : NDD9510032001
EUT Rated Voltage : DC 5 V, 1 A
Test Voltage : 120 Vac / 60 Hz
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Test Result : Complied

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



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

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

Approved By

: Fly Lu

(Manager)

(Fly Lu)

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.....	21
4.5.	Maximum Power Spectral Density Measurement.....	23
4.6.	Out of Band Conducted Emissions Measurement.....	24
4.7.	Antenna Measurement	25
5	Test Results	26
	Annex A. Conducted Emission	26
	Annex B. Conducted Test Results	28
	Annex C. Radiated Emission Measurement.....	51



1 General Information

1.1. Summary of Test Result

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

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

1.2. Measurement Uncertainty

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

Decision Rule

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

2 EUT Description

Applicant	Edimax Technology Co., Ltd. No.278, Xinhu 1st Rd., Neihu Dist., Taipei City, Taiwan			
Manufacturer	Edimax Technology Co., Ltd. No.278, Xinhu 1st Rd., Neihu Dist., Taipei City, Taiwan			
Product Type	Air Box			
Trade Name	EDIMAX			
Model Number	AI-1001W V5			
FCC ID	NDD9510032001			
Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate 400 / 800 G (ns)
IEEE 802.11b	2412 ~ 2462	DSSS	20 MHz	Up to 11 Mbps
IEEE 802.11g	2412 ~ 2462	OFDM	20 MHz	Up to 54 Mbps
IEEE 802.11n 2.4 GHz 20 MHz	2412 ~ 2462	OFDM	20 MHz	Up to 72.2 Mbps
IEEE 802.11n 2.4 GHz 40 MHz	2422 ~ 2452	OFDM	40 MHz	Up to 150 Mbps
Antenna information	Model Number		Type	Max. Gain (dBi)
	ALX19P-051AA0-00		Dipole Antenna	4.7
Antenna Delivery	See section 3.1			
Operate Temp. Range	-10 ~ +60 ℃			

Frequency Band	Max. RF Output Power (W)
IEEE 802.11b	0.159
IEEE 802.11g	0.249
IEEE 802.11n 2.4 GHz 20 MHz	0.244
IEEE 802.11n 2.4 GHz 40 MHz	0.238

3 Test Methodology

3.1. Mode of Operation

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

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

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

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

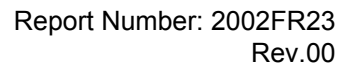
By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

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

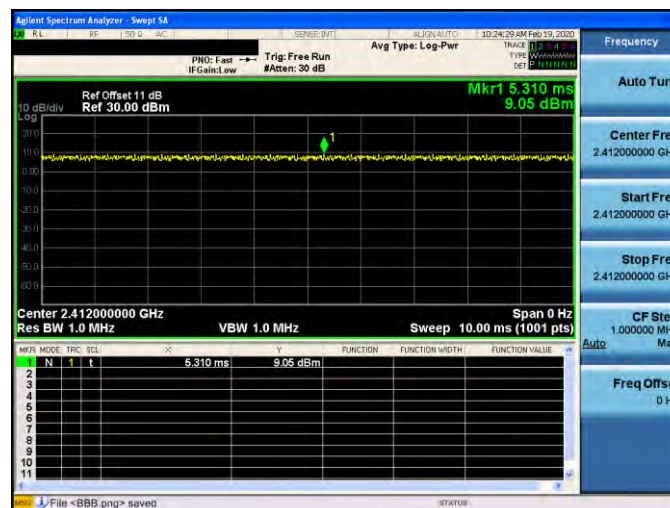
Test Mode	Antenna Delivery	Data Rate (Mbps)	Test Channel
Mode 2	1TX / 1RX	1	1, 6, 11
Mode 3	1TX / 1RX	6	1, 6, 11
Mode 4	1TX / 1RX	6.5	1, 6, 11
Mode 5	1TX / 1RX	13.5	3, 6, 9

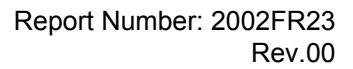
Duty cycle

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	10.000	10.000	1.000	0.000	0.010
Mode 4	2412.0	10.000	10.000	1.000	0.000	0.010
Mode 5	2422.0	10.000	10.000	1.000	0.000	0.010



Mode 2: IEEE 802.11b Continuous TX Mode





Agilent Spectrum Analyzer - Swept SA

File Edit View Options Help

SRBW: 400 Hz SLF: 400 Hz 10/24/12 AM Feb 19, 2010

RL

PNW: Fast Trig: Free Run Avg Type: Log-Pwr

IF Gain: Low #Atten: 30 dB

TRACE 1 [1] = 4.0 dB

TYPE WWWWWWWW

SET 2.41200000

Frequency

Auto Tun

Center Freq

2.41200000 GHz

Start Freq

2.41200000 GHz

Stop Freq

2.41200000 GHz

CF Stop

1.000000 MHz

Auto

Freq Offset

0 Hz

Ref Offset 11 dB

Ref 30.00 dBm

Mkr1 3.070 ms

8.91 dBm

10 dB/div

Log

30.0

20.0

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

Center 2.412000000 GHz

Span 0 Hz

Res BW 1.0 MHz

VBW 1.0 MHz

Sweep 10.00 ms (1001 pts)

MFR MODE TRG STL

1 N 1 t 3.070 ms 8.91 dBm

	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

File <BBB.png> saved

(STATUS)

Agilent Spectrum Analyzer - Sweep 5A

RL K1 150 dB

SAPRE: BNT1

10:26:30 AM Feb 19, 2000

Avg Type: Log-Pwr

Trce 1: Freq

TYPE: WWWWWWWWWW

DET: C

Frequency

Auto Tun

Center Freq

2.422000000 GHz

Start Freq

2.422000000 GHz

Stop Freq

2.422000000 GHz

CF Stop

1.000000 MHz

Auto

Freq Offset

0 Hz

Ref Offset 11 dB

Ref 30.00 dBm

PNO: Fast

Trig: Free Run

#Atten: 30 dB

Mkr1 3.780 ms

6.64 dBm

10 dB/div

Log

30.0

20.0

10.0

0.0

-10.0

-20.0

-30.0

-40.0

Center 2.422000000 GHz

Span 0 Hz

Res BW 1.0 MHz

VBW 1.0 MHz

Sweep 10.00 ms (1001 pts)

MTR MODE	TRC	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	3.780 ms	6.64 dBm		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							

File <BBB.png> saved

STATUS

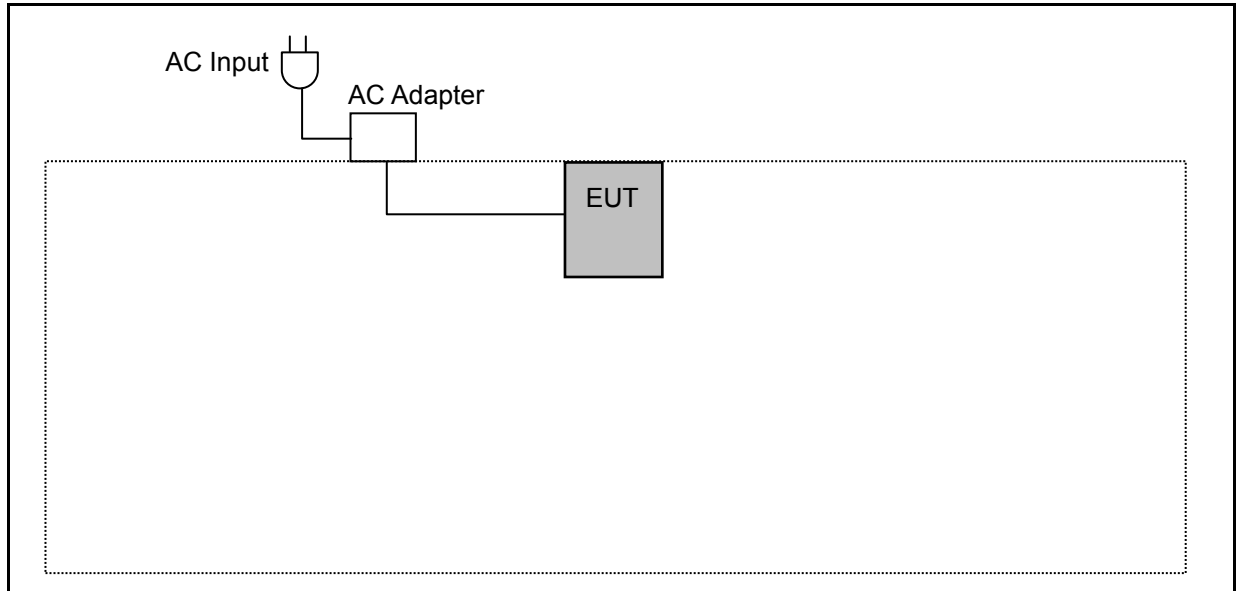
3.2. EUT Test Step

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

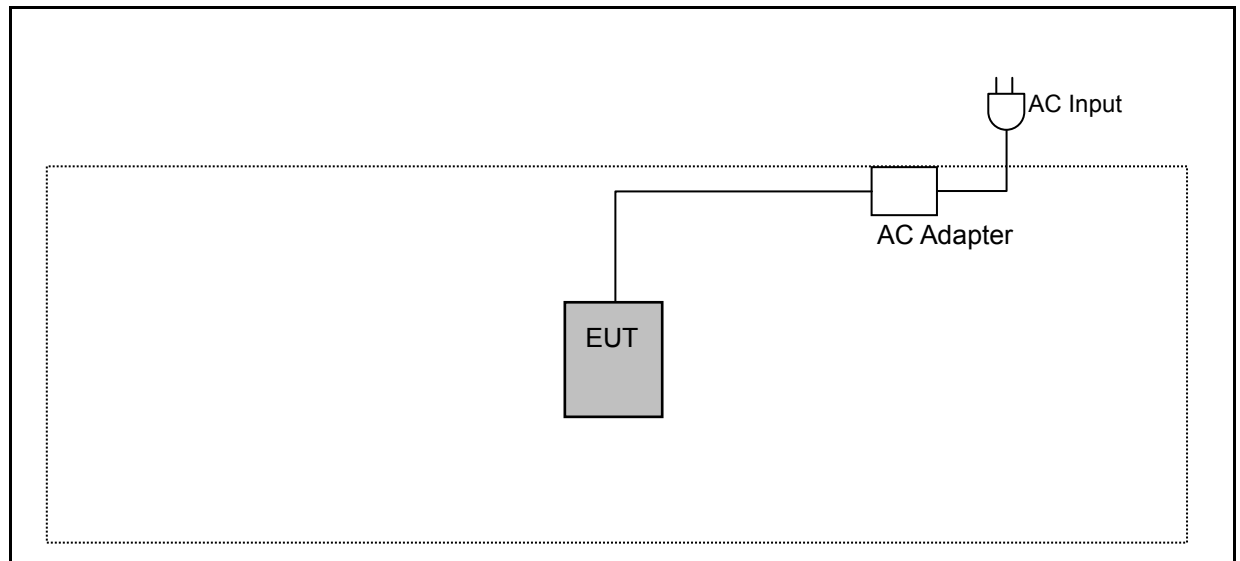
Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

3.3. Configuration of Test System Details

Conducted Emissions



Radiated Emission



Devices Description					
Product	Manufacturer	Model Number	Serial Number	Power Cord	
---	---	---	---	---	---



3.4. Test Instruments

For Conducted Emission

Test Period: Feb. 20, 2020

Testing Engineer: Louis Shen

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/23/2019	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: Feb. 14, 2020

Testing Engineer: Ricky Liu

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



For Conducted

Test Period: Feb. 19, 2020

Testing Engineer: Negi Chiu

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

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

3.5. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75
Barometric pressure (mbar)	860-1060	990-1005

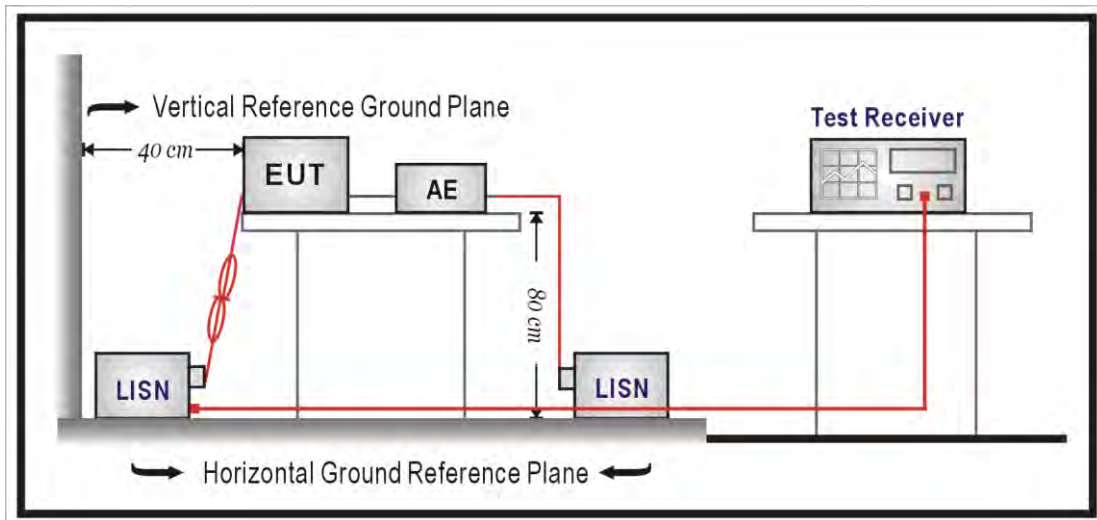
4 Measurement Procedure

4.1. AC Power Line Conducted Emission Measurement

■ Limit

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

■ Test Setup



■ Test Procedure

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

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

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

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

4.2. Radiated Emission Measurement

■ Limit

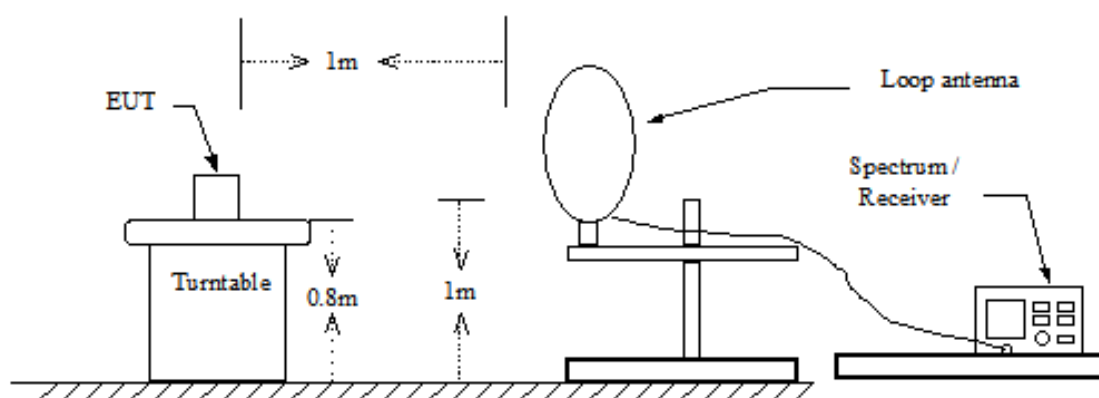
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at meter)	Measurement Distance (meters)
0.009 – 0.490	$2400 / F$ (kHz)	300
0.490 – 1.705	$24000 / F$ (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

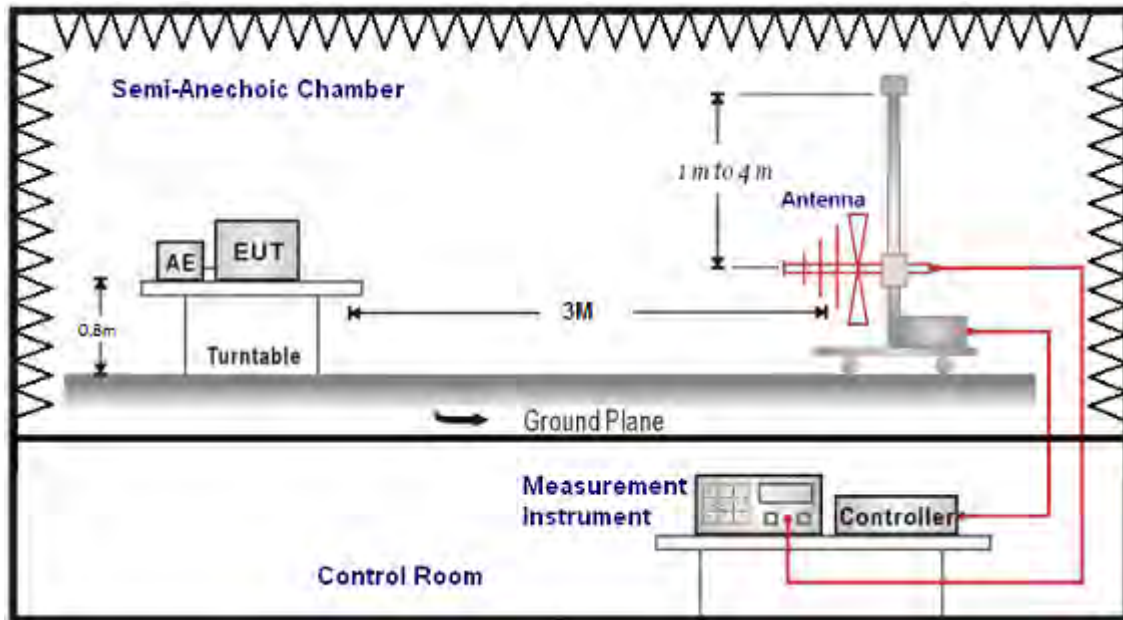
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

■ Setup

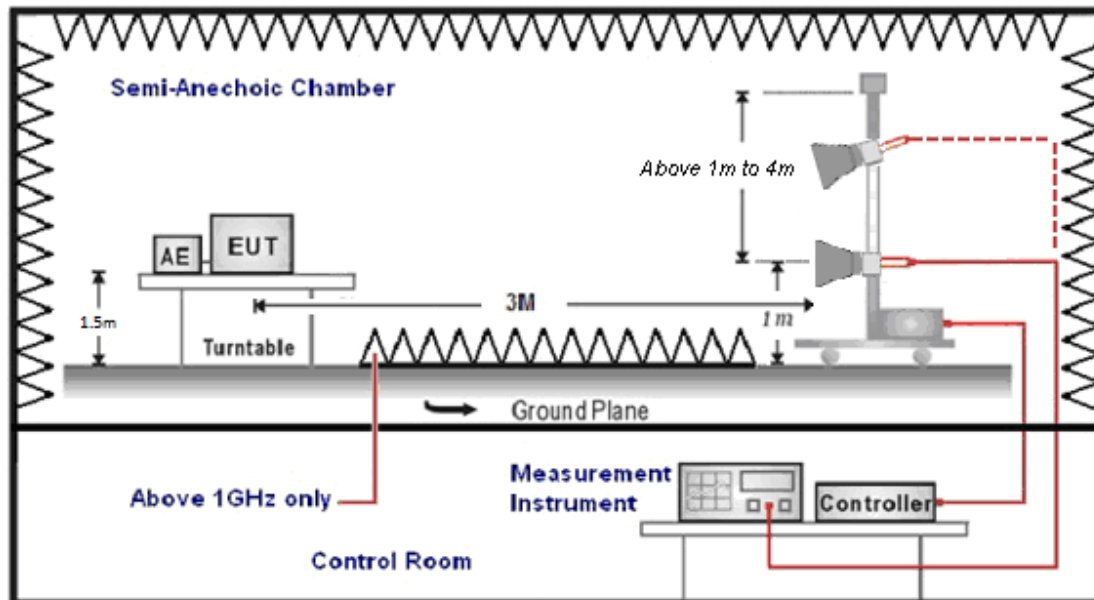
9 kHz ~ 30 MHz



Below 1 GHz



Above 1 GHz



■ Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle >0.98 / $1/T$ for average measurements when Duty cycle <0.98 . A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna was used in frequencies 1 –26.5 GHz at a distance of 3 meter. The antenna at an angle toward the source of the emission. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

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

The actual field 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.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) + AF (dBuV) + CL (dBuV) - Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

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

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30 dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

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

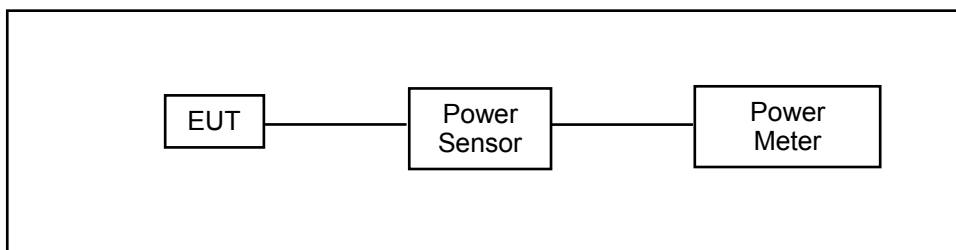
4.3. Maximum Conducted Output Power Measurement

■ Limit

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

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

■ Test Setup



■ Test Procedure

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

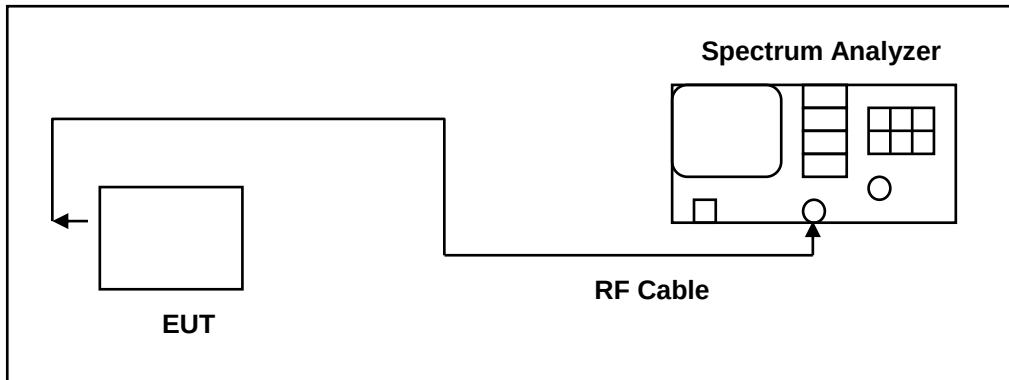
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

4.4. 6 dB RF Bandwidth Measurement

■ Limit

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

■ Test Setup



■ Test Procedure

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

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

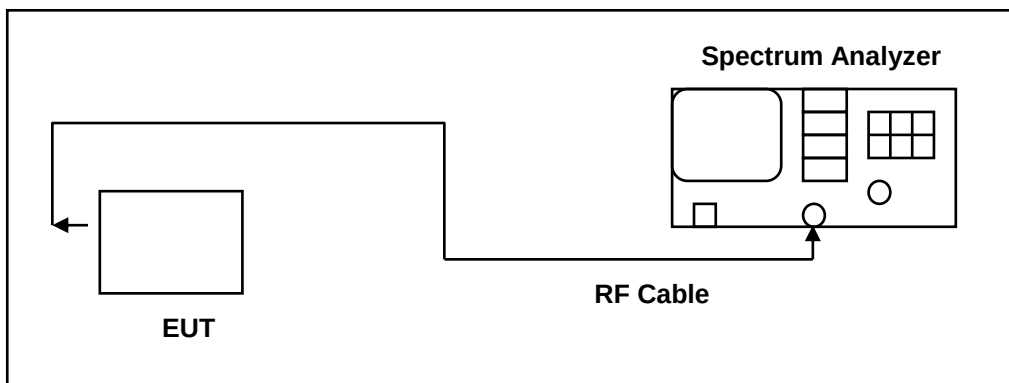
The test was performed at 3 channels (Channel low, middle, high)

4.5. Maximum Power Spectral Density Measurement

■ Limit

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

■ Test Setup



■ Test Procedure

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

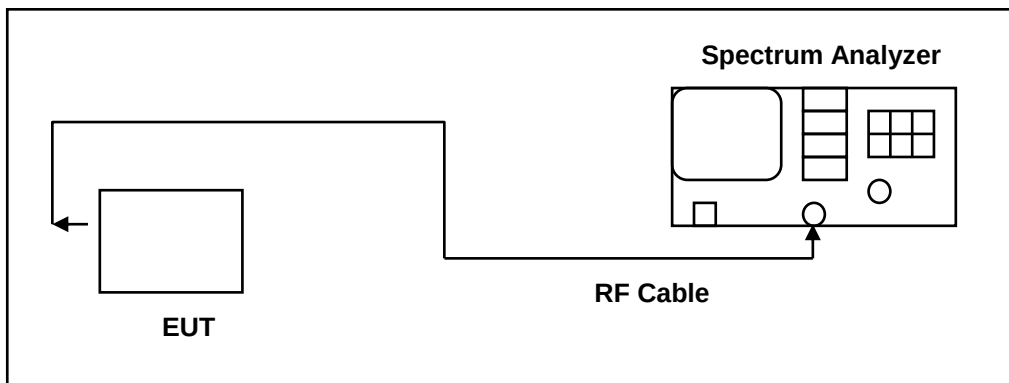
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.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

4.6. Out of Band Conducted Emissions Measurement

■ Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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.

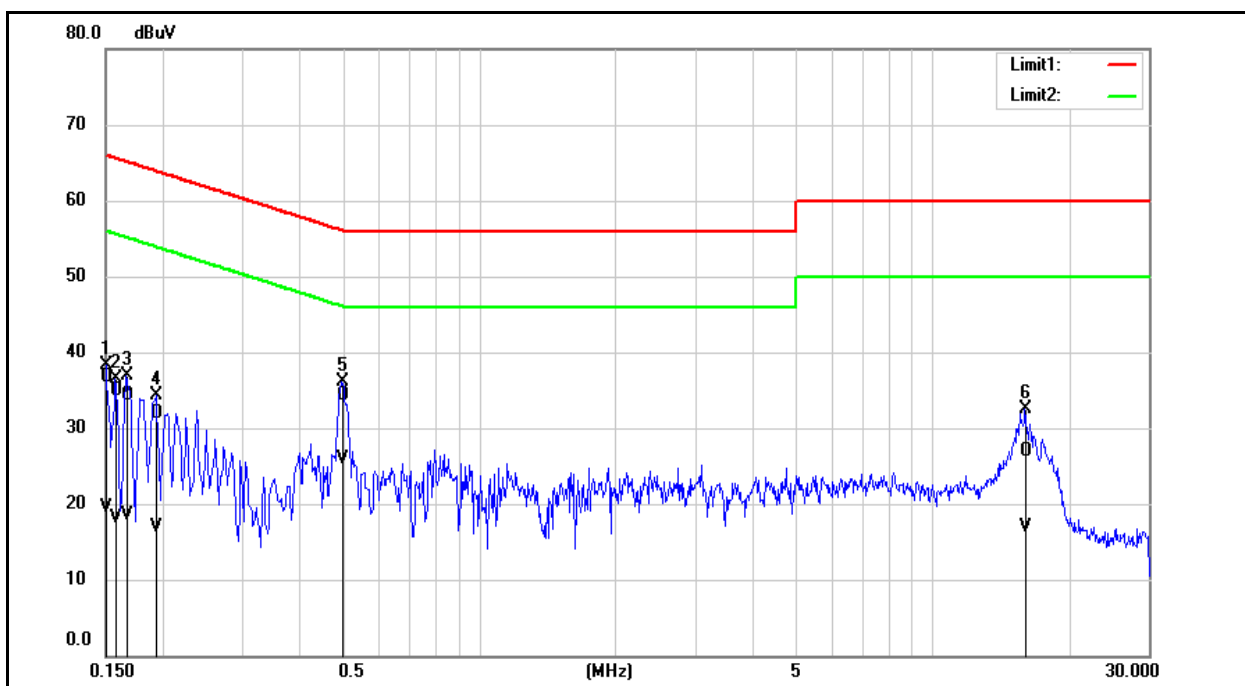
■ Antenna Description

See section 2 – antenna information.

5 Test Results

Annex A. Conducted Emission

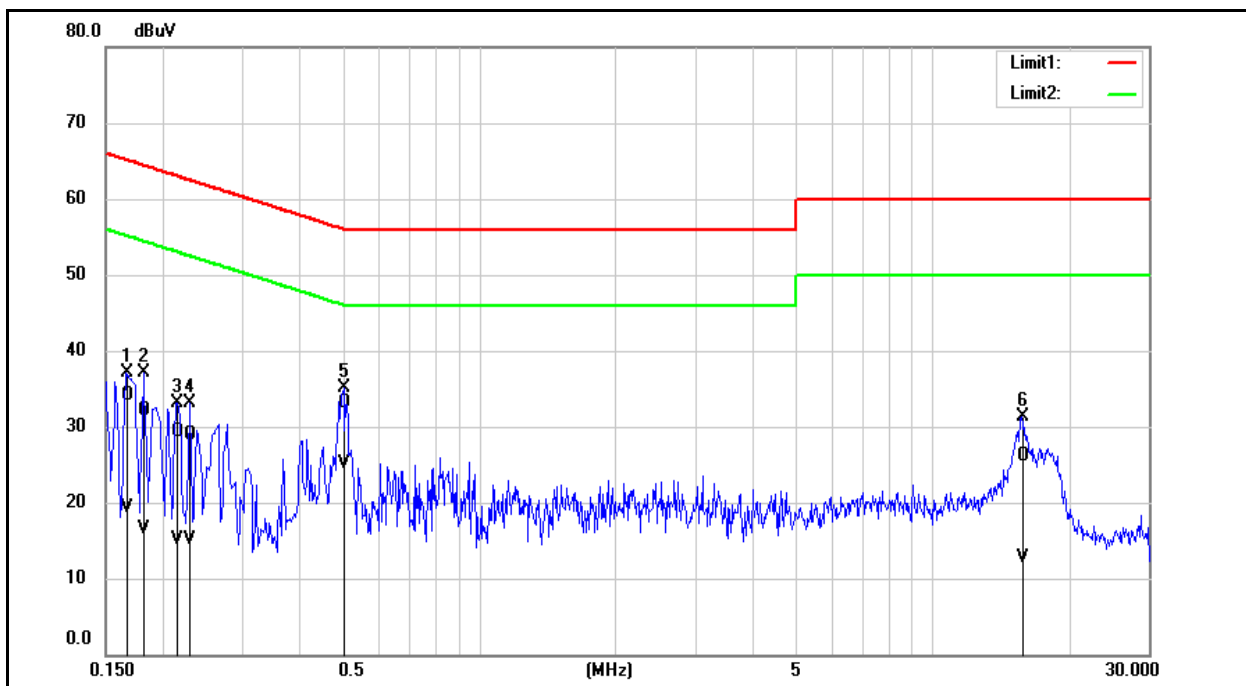
Standard:	FCC Part 15.247	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	27.12	9.77	9.65	36.77	19.42	66.00	56.00	-29.23	-36.58	Pass
2	0.1580	25.29	8.36	9.65	34.94	18.01	65.57	55.57	-30.63	-37.56	Pass
3	0.1660	24.58	8.82	9.65	34.23	18.47	65.16	55.16	-30.93	-36.69	Pass
4	0.1940	22.34	7.20	9.64	31.98	16.84	63.86	53.86	-31.88	-37.02	Pass
5	0.4980	24.65	16.24	9.66	34.31	25.90	56.03	46.03	-21.72	-20.13	Pass
6	16.0140	16.98	6.89	9.99	26.97	16.88	60.00	50.00	-33.03	-33.12	Pass

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

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



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1660	24.42	9.67	9.68	34.10	19.35	65.16	55.16	-31.06	-35.81	Pass
2	0.1820	22.53	6.76	9.67	32.20	16.43	64.39	54.39	-32.19	-37.96	Pass
3	0.2140	19.62	5.51	9.67	29.29	15.18	63.05	53.05	-33.76	-37.87	Pass
4	0.2300	19.18	5.49	9.67	28.85	15.16	62.45	52.45	-33.60	-37.29	Pass
5	0.5020	23.47	15.42	9.69	33.16	25.11	56.00	46.00	-22.84	-20.89	Pass
6	15.7460	15.96	2.54	10.10	26.06	12.64	60.00	50.00	-33.94	-37.36	Pass

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

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

Annex B. Conducted Test Results

Maximum Conducted Output Power Measurement

ANT-0							
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Peak Output Power		
			Measurement Results		Measurement Results		Limit
			dBm	W	dBm	W	dBm
Mode 2	2412	1 M	19.75	0.094	22.01	0.159	≤ 30
	2437		19.45	0.088	21.77	0.150	≤ 30
	2462		19.34	0.086	21.60	0.145	≤ 30
Mode 3	2412	6 M	15.84	0.038	23.96	0.249	≤ 30
	2437		15.66	0.037	23.41	0.219	≤ 30
	2462		15.35	0.034	23.64	0.231	≤ 30
Mode 4	2412	6.5 M	15.76	0.038	23.88	0.244	≤ 30
	2437		15.57	0.036	23.67	0.233	≤ 30
	2462		15.30	0.034	23.35	0.216	≤ 30
Mode 5	2422	13.5 M	15.35	0.034	23.38	0.218	≤ 30
	2437		15.48	0.035	23.76	0.238	≤ 30
	2452		15.31	0.034	23.19	0.208	≤ 30

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



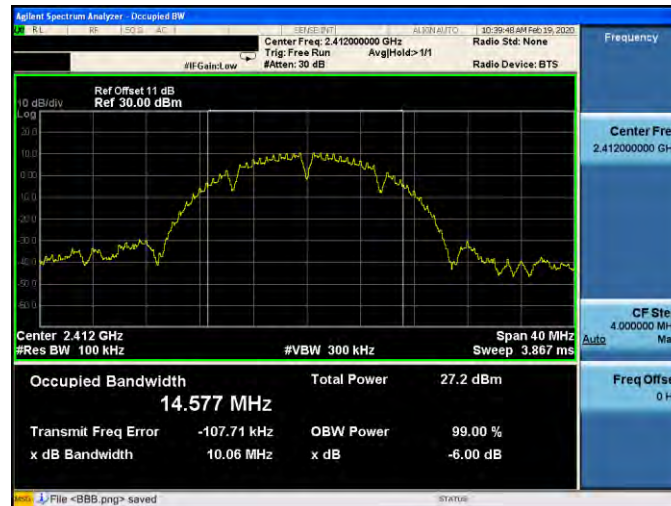
6 dB RF Bandwidth Measurement

ANT-0			
Test Mode	Frequency (MHz)	Measurement (kHz)	Limit (kHz)
Mode 2	2412	10060	≥ 500
	2437	10060	≥ 500
	2462	10060	≥ 500
Mode 3	2412	16600	≥ 500
	2437	16600	≥ 500
	2462	16600	≥ 500
Mode 4	2412	17770	≥ 500
	2437	17770	≥ 500
	2462	17770	≥ 500
Mode 5	2422	36540	≥ 500
	2437	36540	≥ 500
	2452	36540	≥ 500

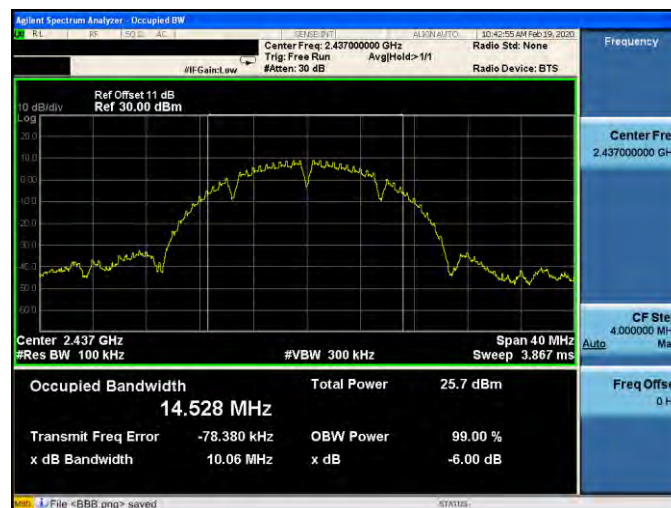
■ Test Graphs

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

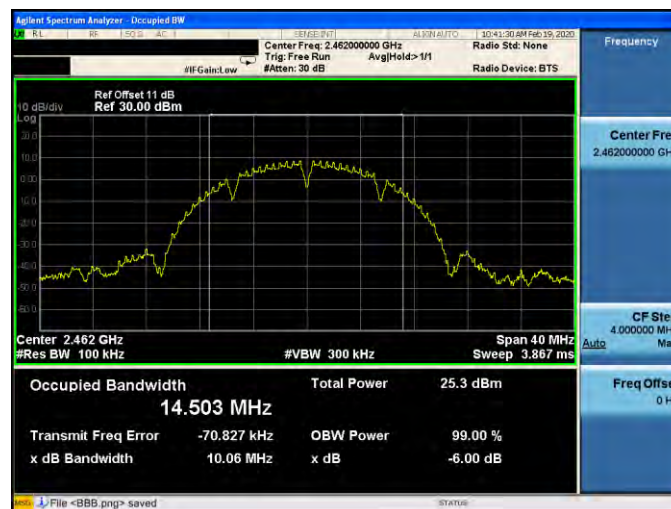
2412 MHz



2437 MHz



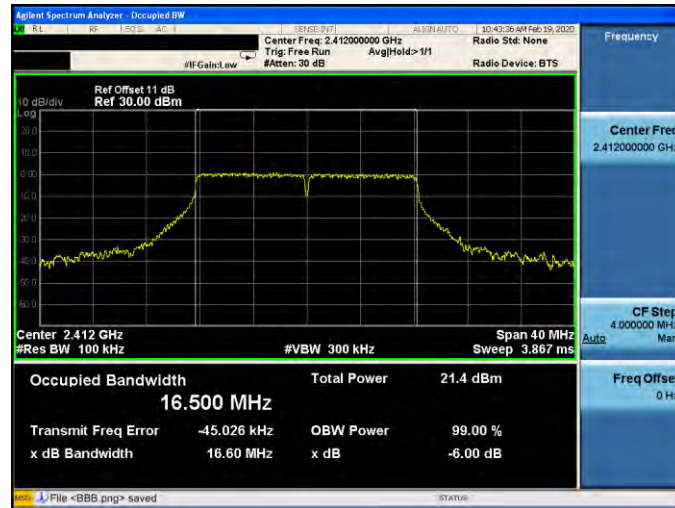
2462 MHz



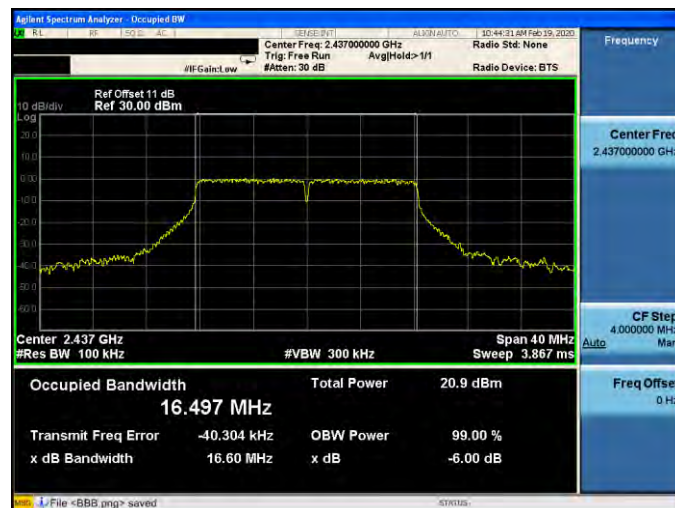


Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

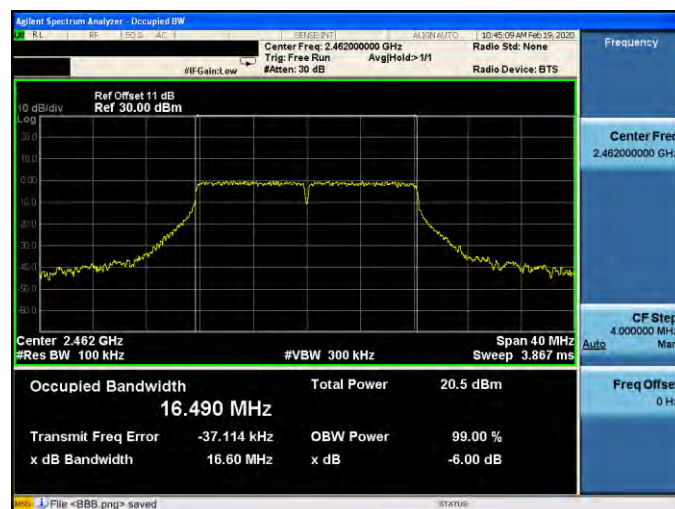
2412 MHz



2437 MHz



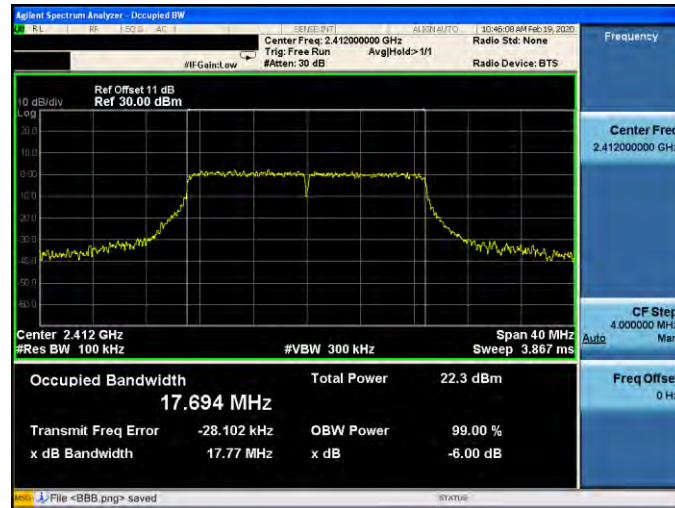
2462 MHz



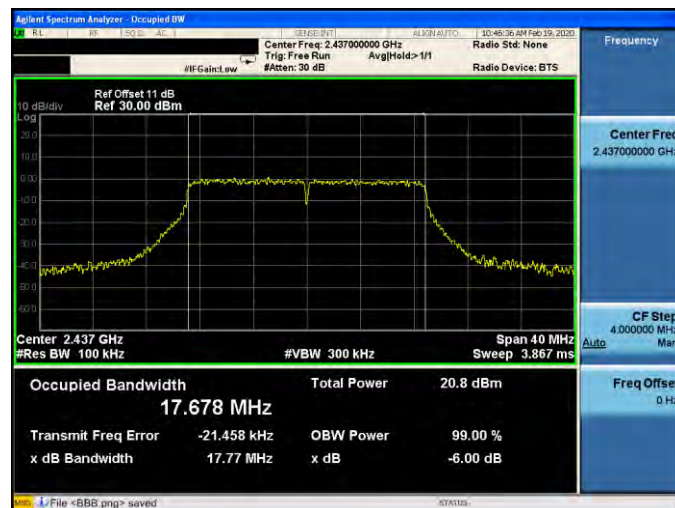


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode _ANT-0

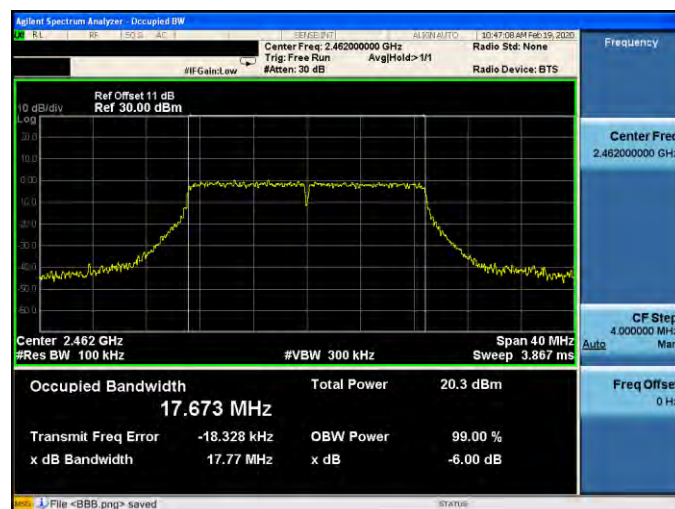
2412 MHz



2437 MHz



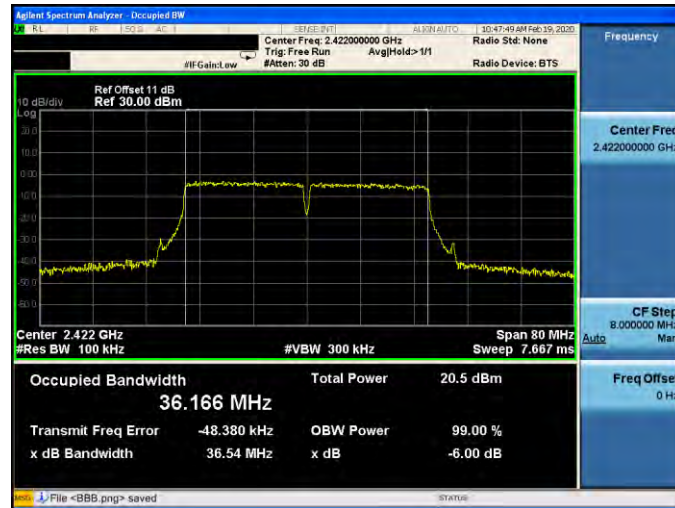
2462 MHz



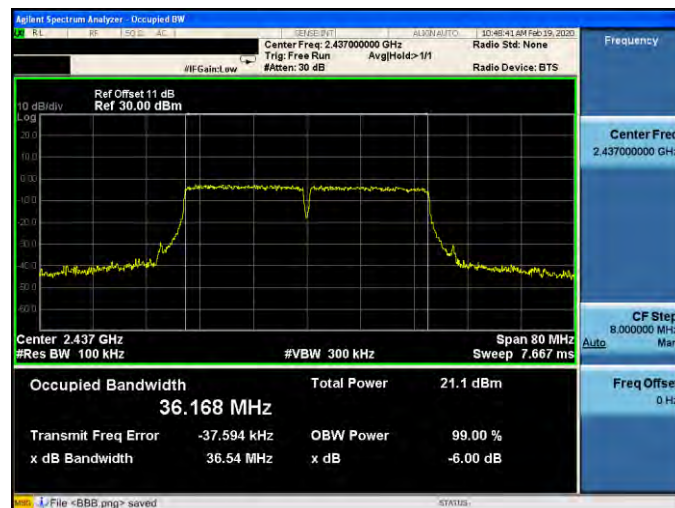


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode _ANT-0

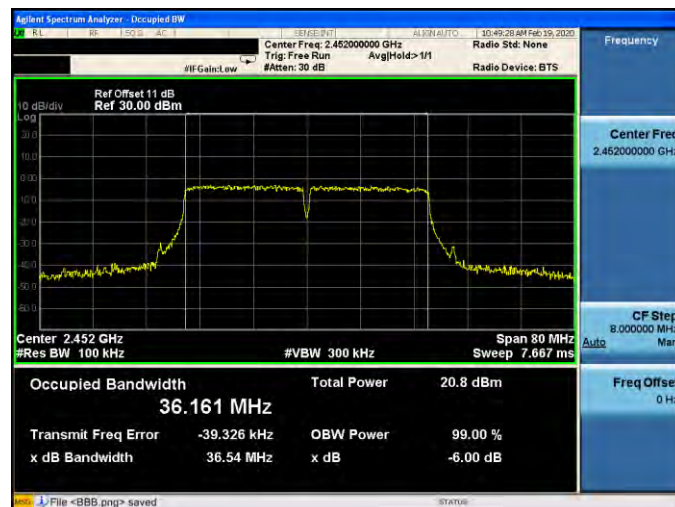
2422 MHz



2437 MHz



2452 MHz





Maximum Power Spectral Density Measurement

ANT-0			
Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)	Limit (dBm/ 3 kHz)
Mode 2	2412	-11.557	≤ 8
	2437	-11.496	≤ 8
	2462	-11.771	≤ 8
Mode 3	2412	-13.930	≤ 8
	2437	-14.113	≤ 8
	2462	-14.298	≤ 8
Mode 4	2412	-12.960	≤ 8
	2437	-13.155	≤ 8
	2462	-13.339	≤ 8
Mode 5	2422	-15.300	≤ 8
	2437	-15.292	≤ 8
	2452	-15.432	≤ 8



Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

2412 MHz



2437 MHz



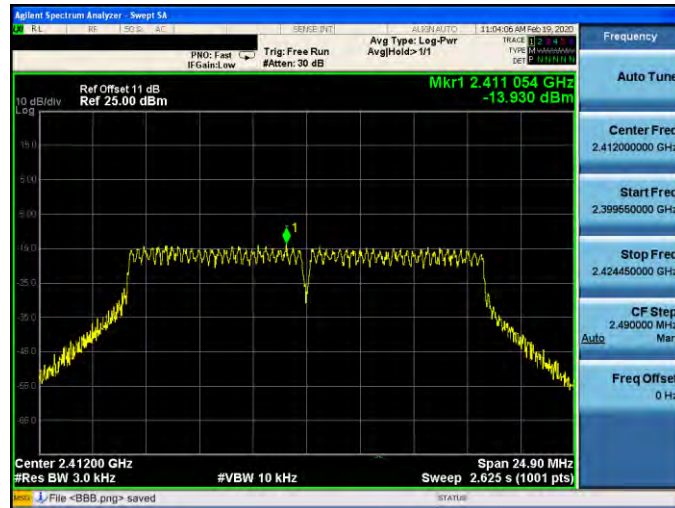
2462 MHz



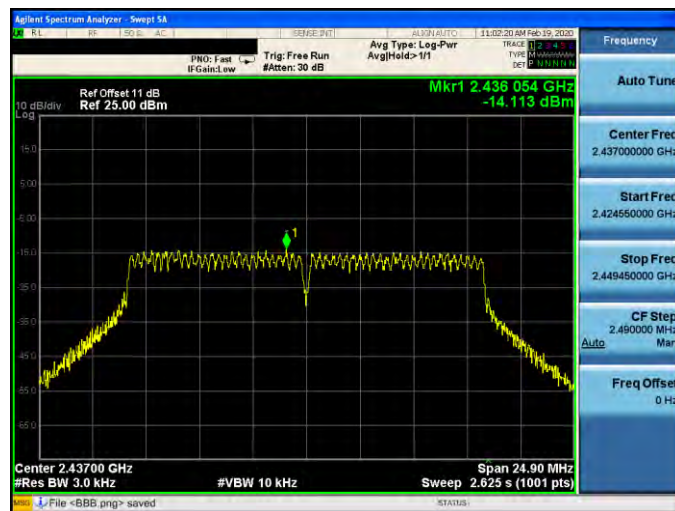


Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

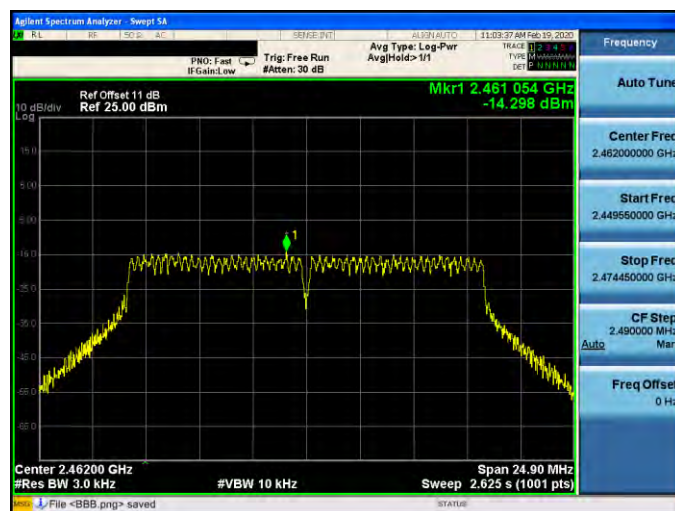
2412 MHz



2437 MHz



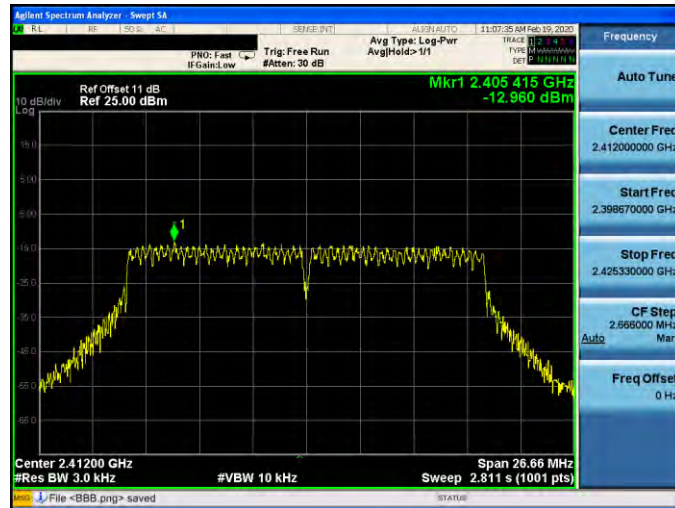
2462 MHz



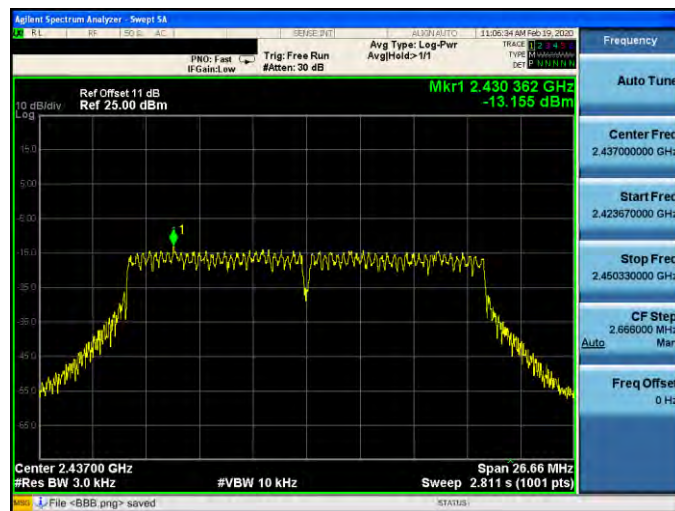


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode _ANT-0

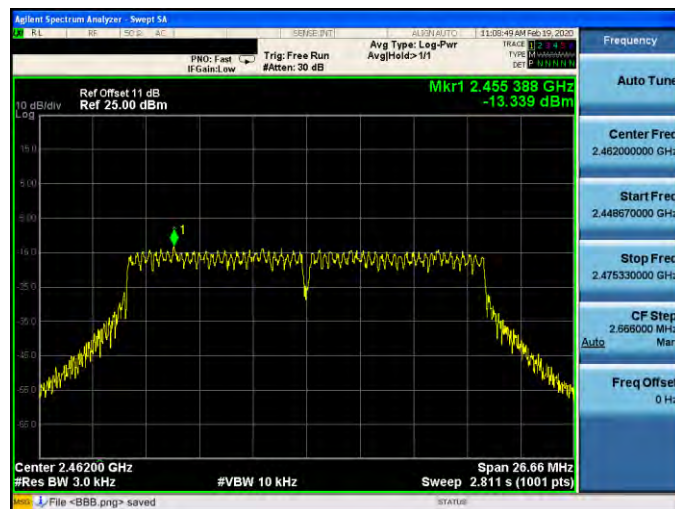
2412 MHz



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



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

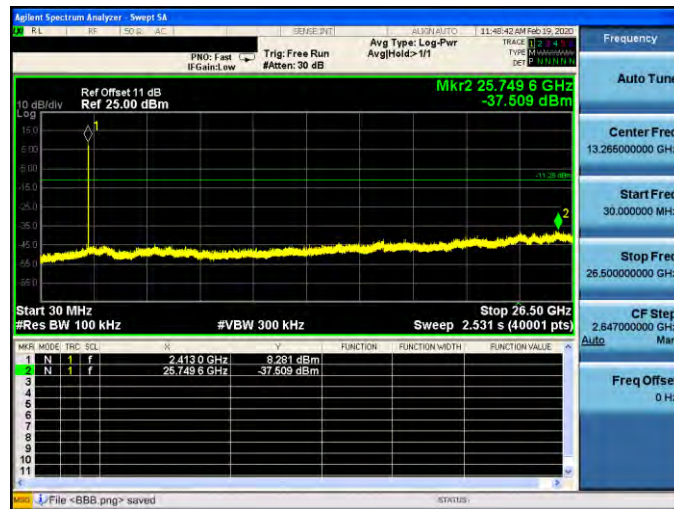




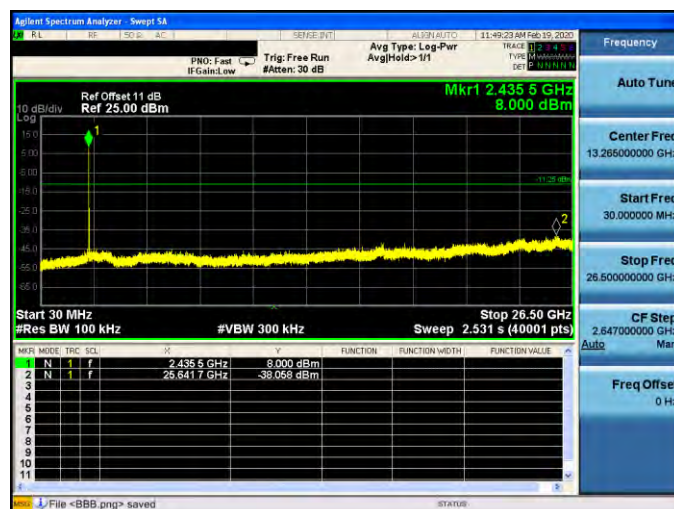
Out of Band Conducted Emissions

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

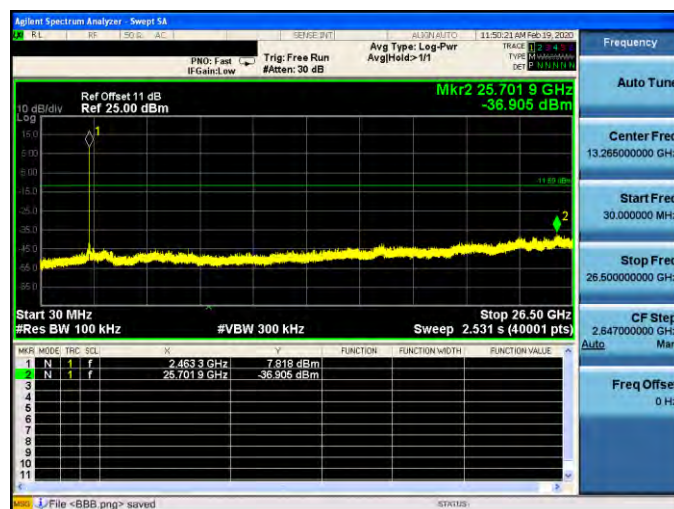
2412 MHz



2437 MHz



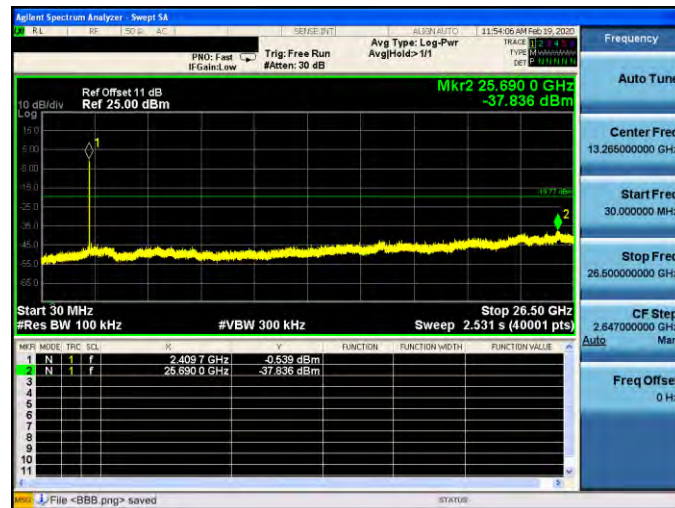
2462 MHz



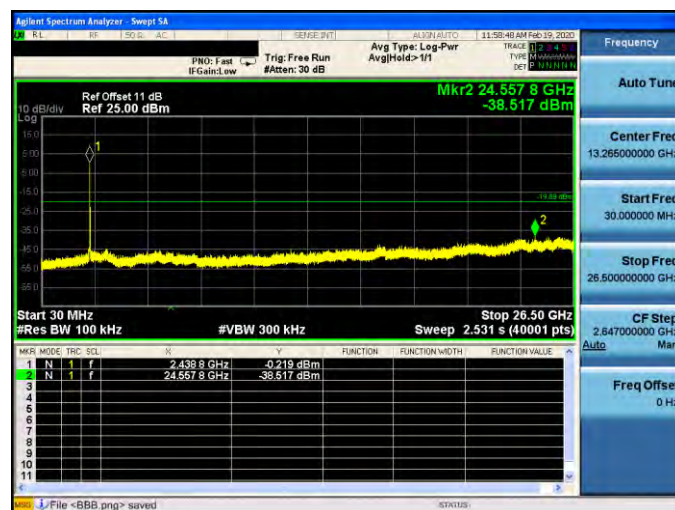


Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

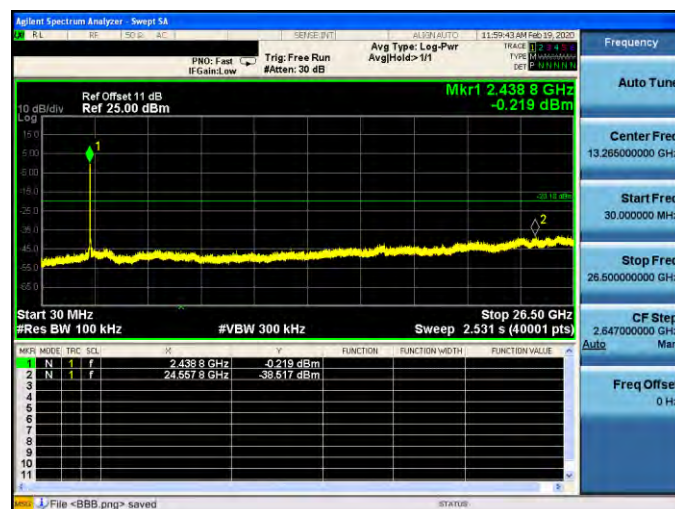
2412 MHz



2437 MHz



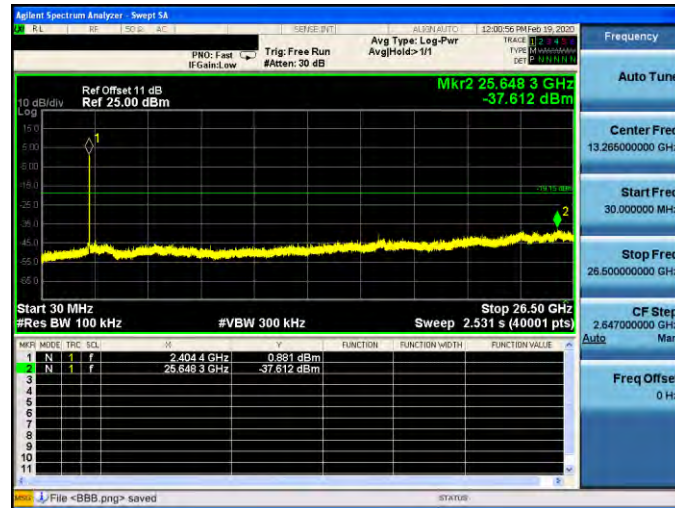
2462 MHz



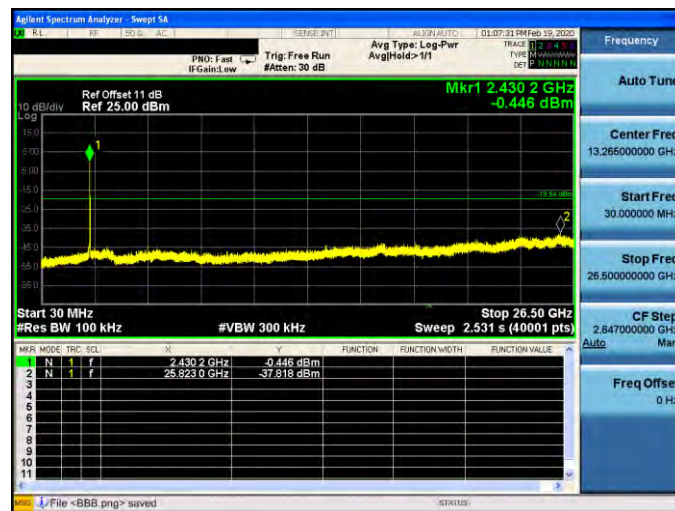


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode _ANT-0

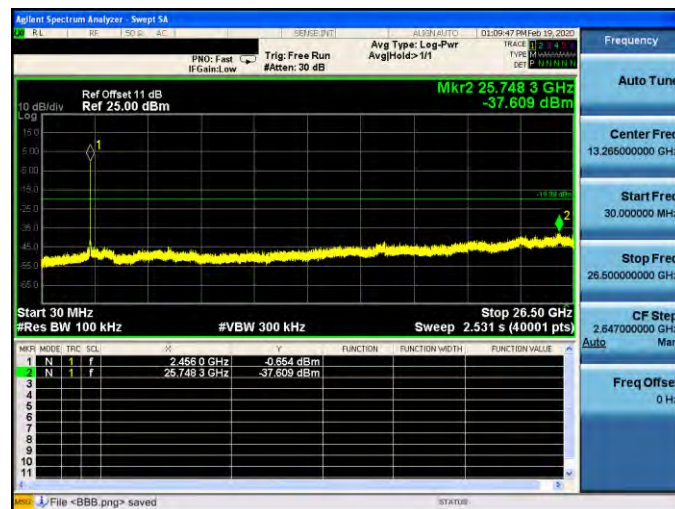
2412 MHz



2437 MHz



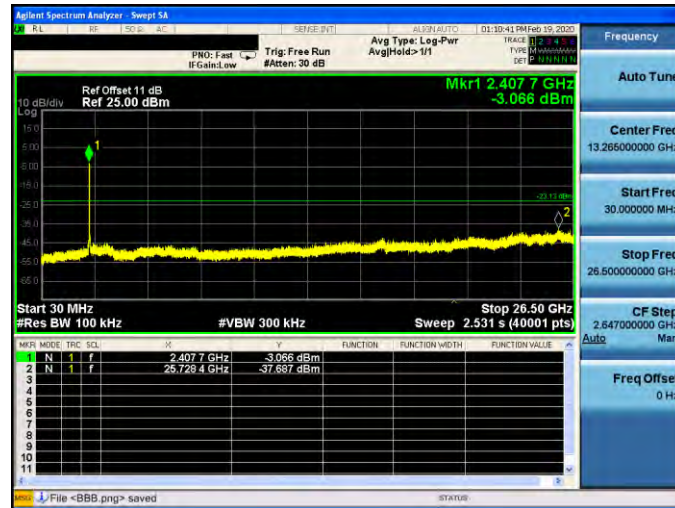
2462 MHz



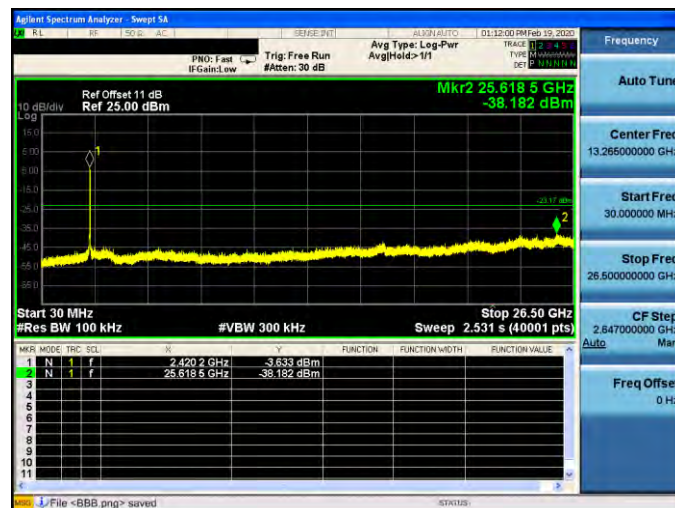


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode _ANT-0

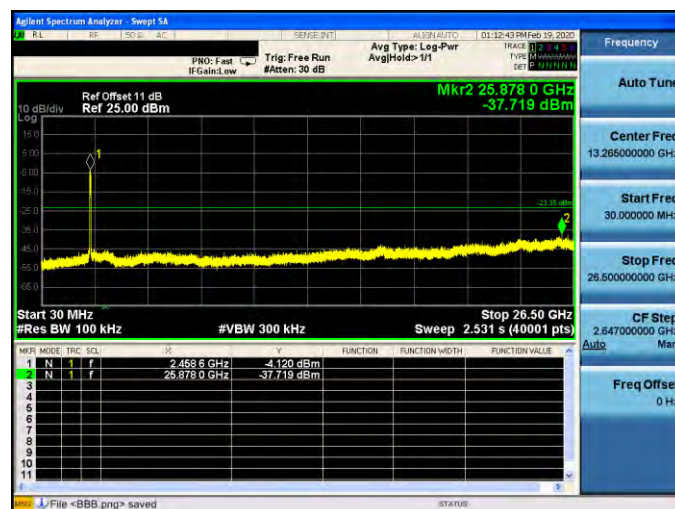
2422 MHz



2437 MHz



2452 MHz

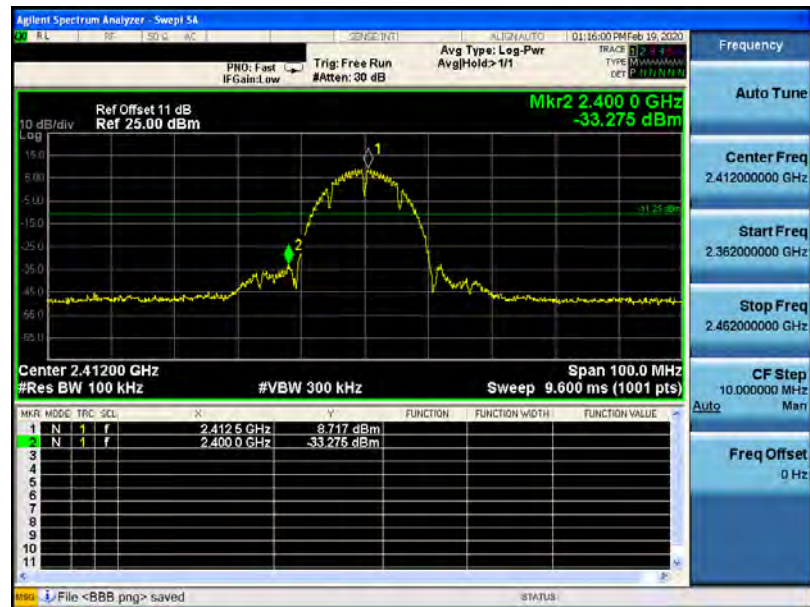




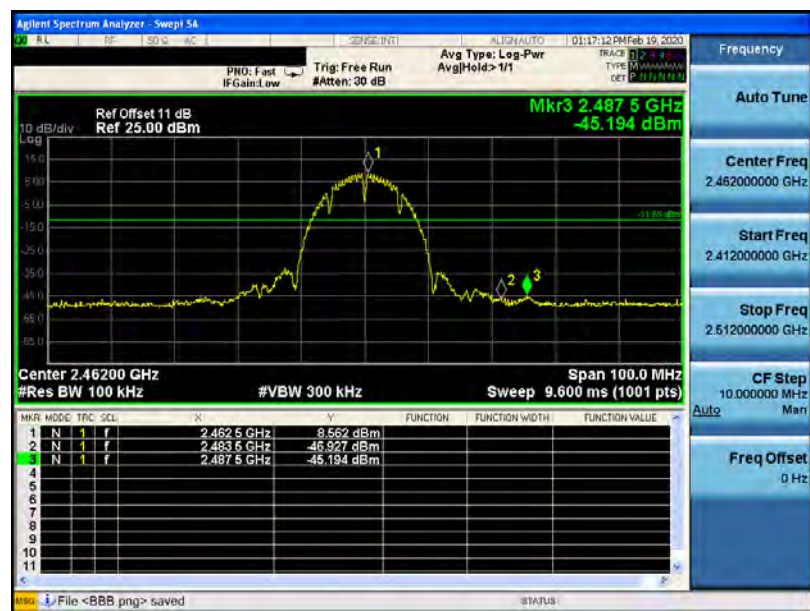
Conducted Band Edge

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

2412 MHz

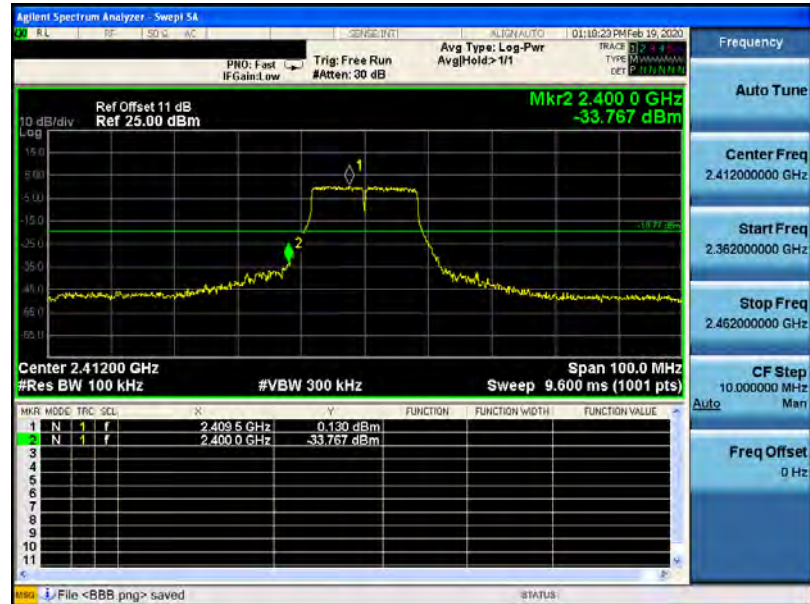


2462 MHz

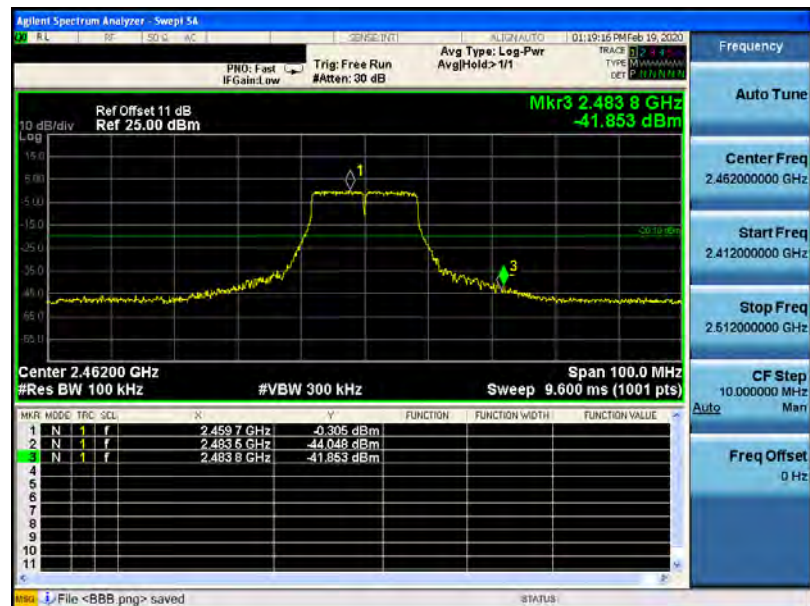


Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

2412 MHz

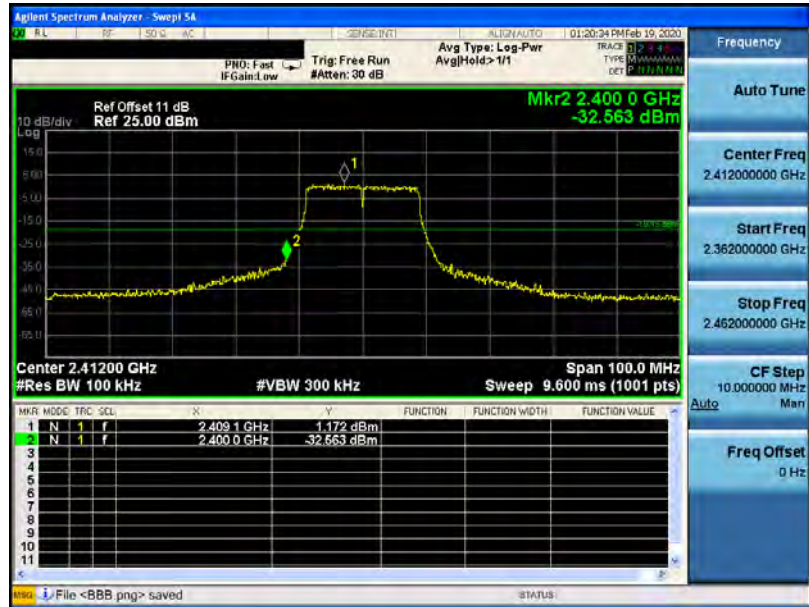


2462 MHz

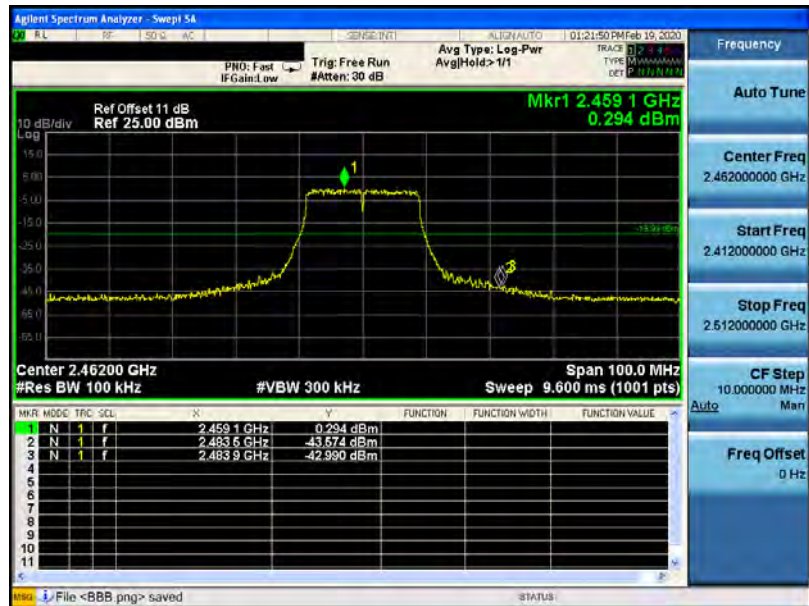


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode _ANT-0

2412 MHz



2462 MHz



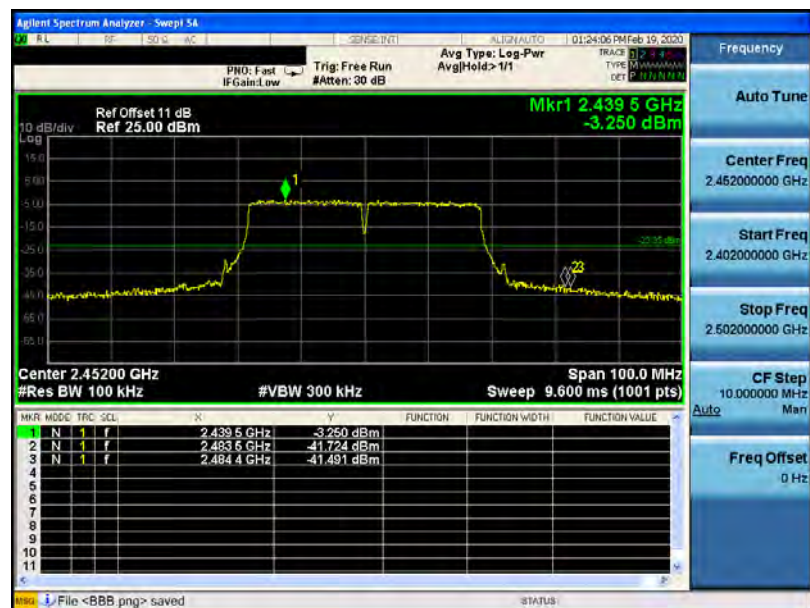


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode _ANT-0

2422 MHz



2452 MHz



Annex C. Radiated Emission Measurement

Below 1 GHz

Standard:	FCC Part 15.247			Test Distance:	3 m		
Test item:	Radiated Emission			Power:	AC 120 V/60 Hz		
Frequency:	2462 MHz			Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH		
Mode:	Mode 2						
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
96.9300	46.85	-11.33	35.52	43.50	-7.98	QP	H
168.7100	40.93	-6.04	34.89	43.50	-8.61	QP	H
450.0100	34.39	-0.98	33.41	46.00	-12.59	QP	H
498.5100	37.99	-0.39	37.60	46.00	-8.40	QP	H
775.9300	31.94	5.28	37.22	46.00	-8.78	QP	H
960.2300	29.74	8.92	38.66	54.00	-15.34	QP	H
91.1100	47.29	-12.11	35.18	43.50	-8.32	QP	V
168.7100	42.68	-6.04	36.64	43.50	-6.86	QP	V
497.5400	35.39	-0.40	34.99	46.00	-11.01	QP	V
648.8600	33.28	2.78	36.06	46.00	-9.94	QP	V
776.9000	35.22	5.30	40.52	46.00	-5.48	QP	V
932.1000	30.53	8.38	38.91	46.00	-7.09	QP	V

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

Example: 35.52=-11.33+46.85

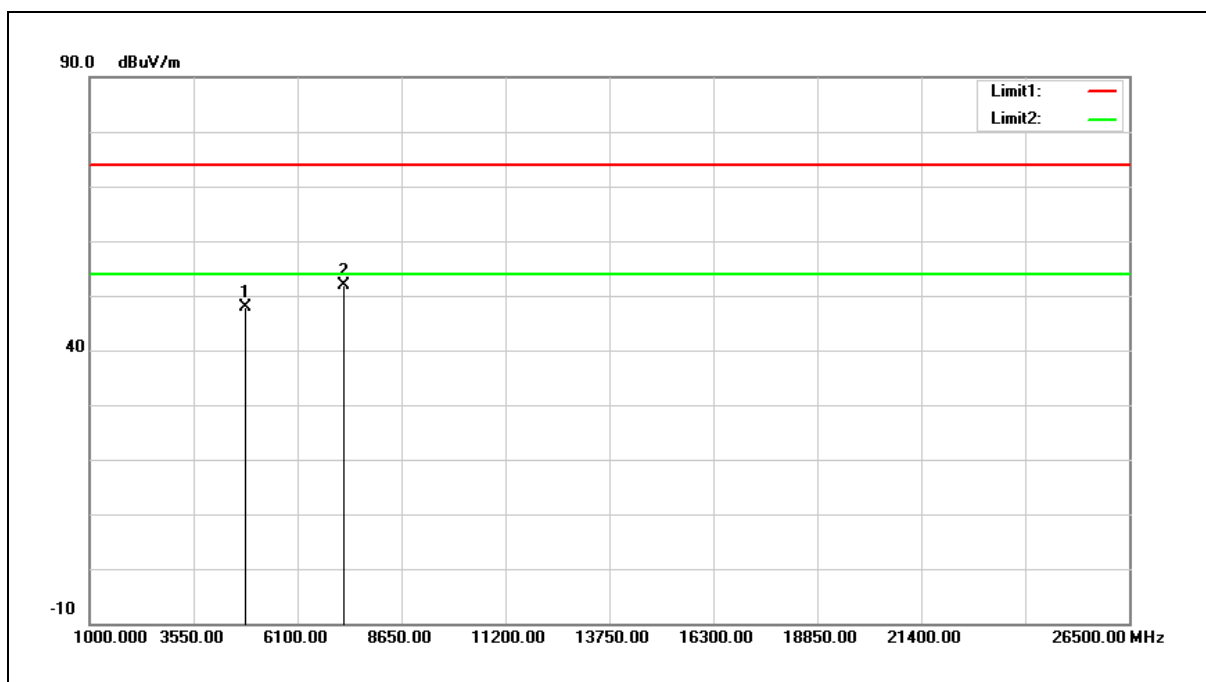
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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

Harmonic

Above 1 GHz

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	41.88	5.88	47.76	74.00	-26.24	peak
2	7236.000	39.52	12.42	51.94	74.00	-22.06	peak

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

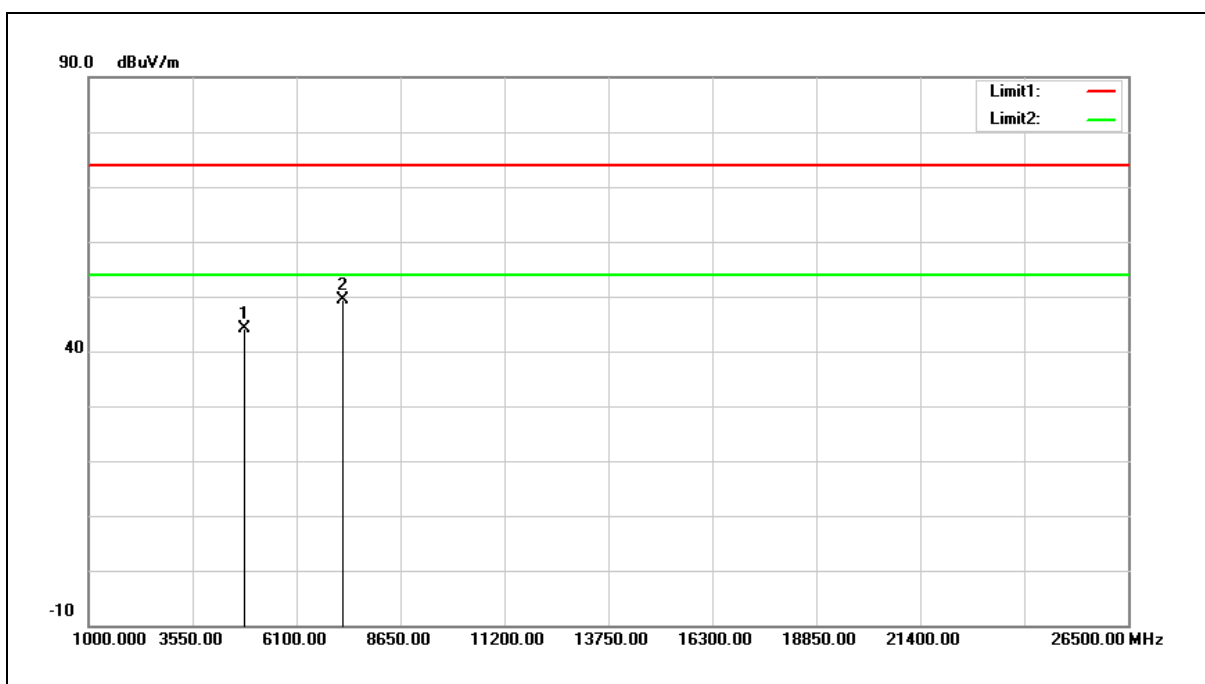
Example: $47.76 = 5.88 + 41.88$

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

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



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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	38.33	5.88	44.21	74.00	-29.79	peak
2	7236.000	37.01	12.42	49.43	74.00	-24.57	peak

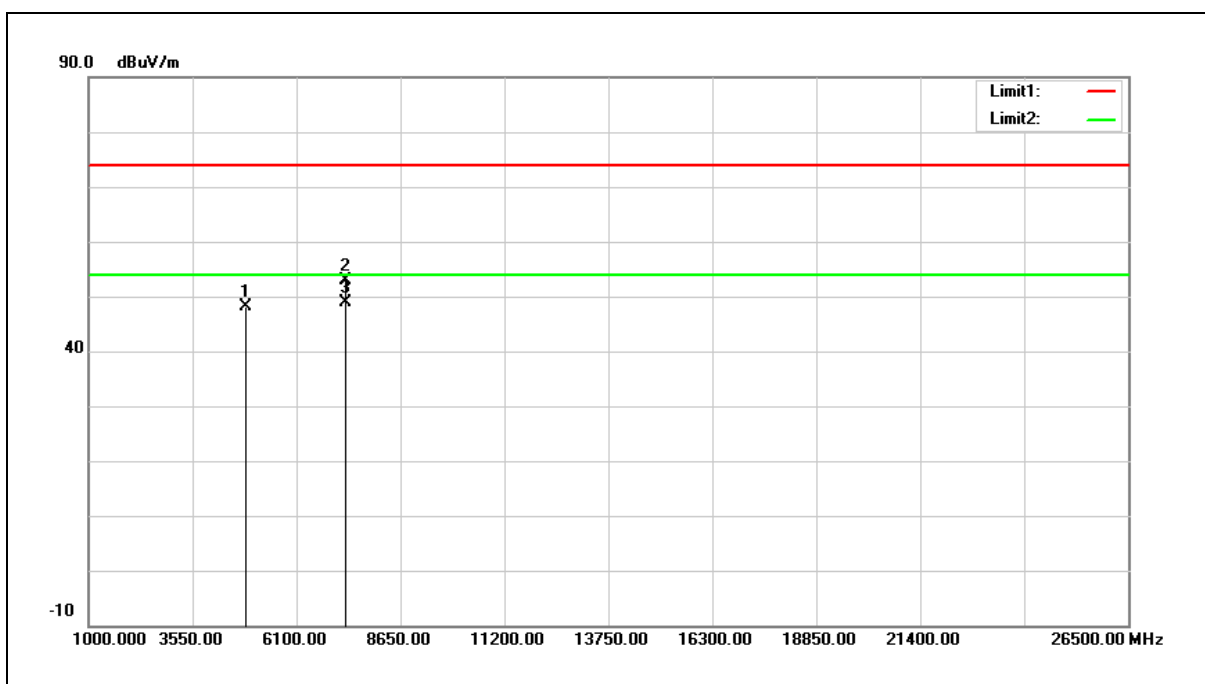
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example: $44.21 = 5.88 + 38.33$

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

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

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



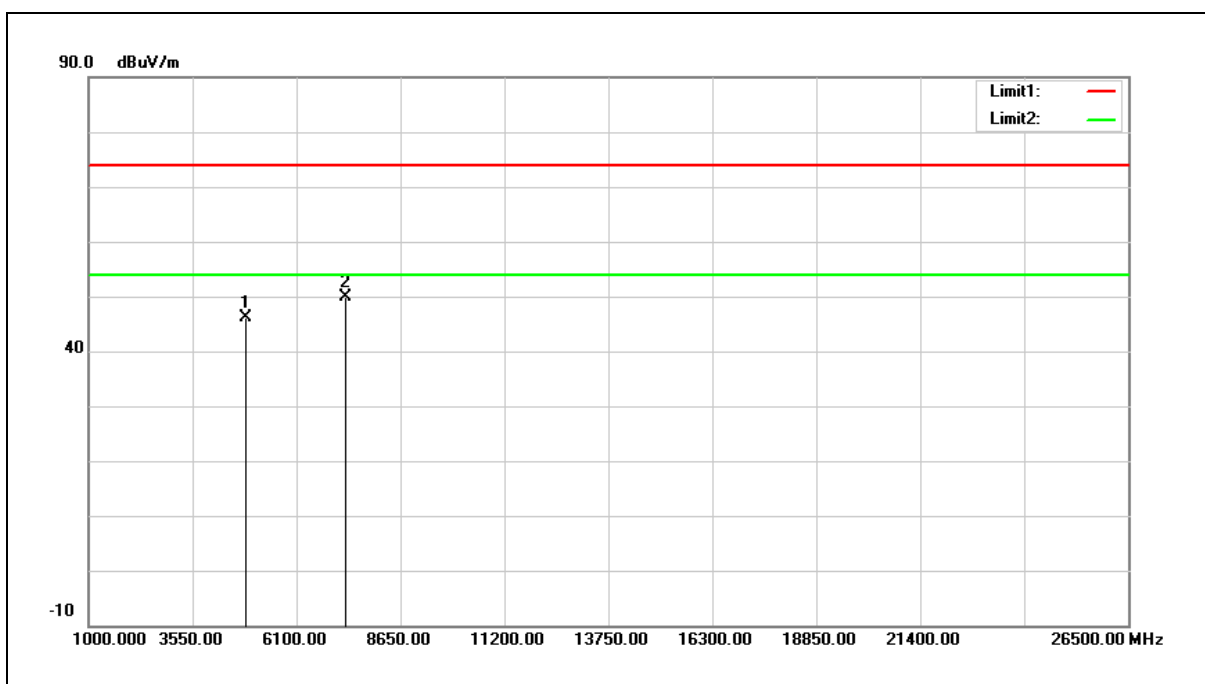
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	42.01	6.03	48.04	74.00	-25.96	peak
2	7311.000	40.12	12.67	52.79	74.00	-21.21	peak
3	7311.000	36.30	12.67	48.97	54.00	-5.03	AVG

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

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

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

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



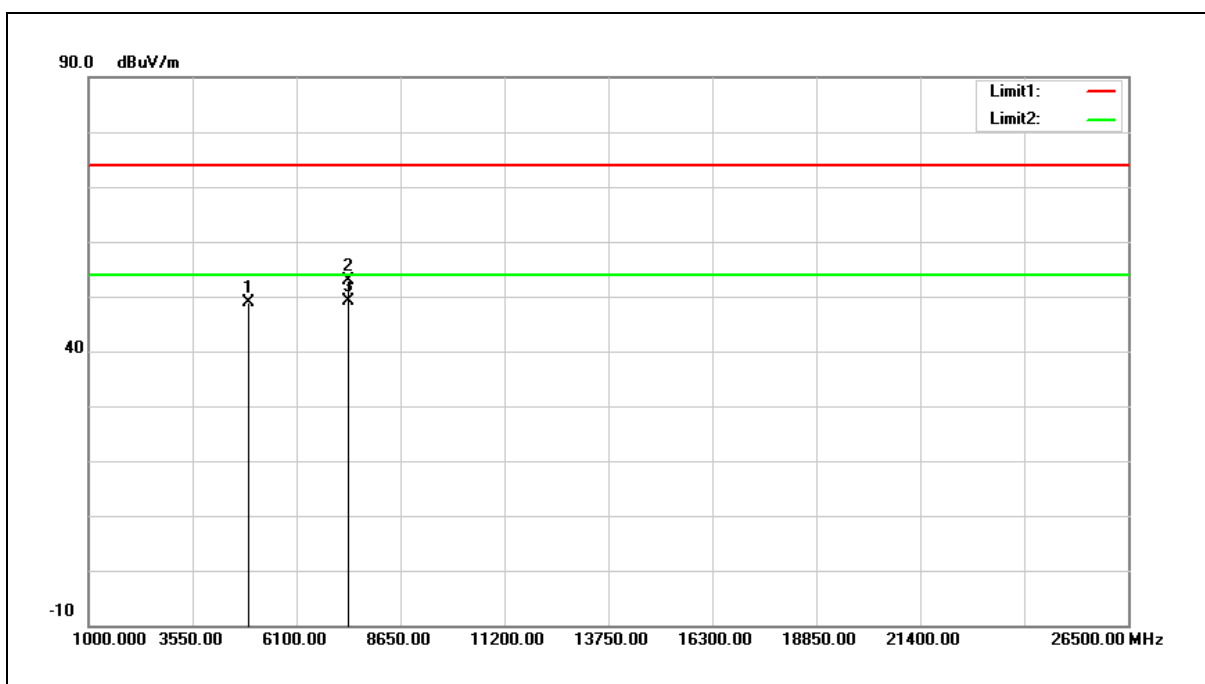
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	40.04	6.03	46.07	74.00	-27.93	peak
2	7311.000	37.09	12.67	49.76	74.00	-24.24	peak

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

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

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

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



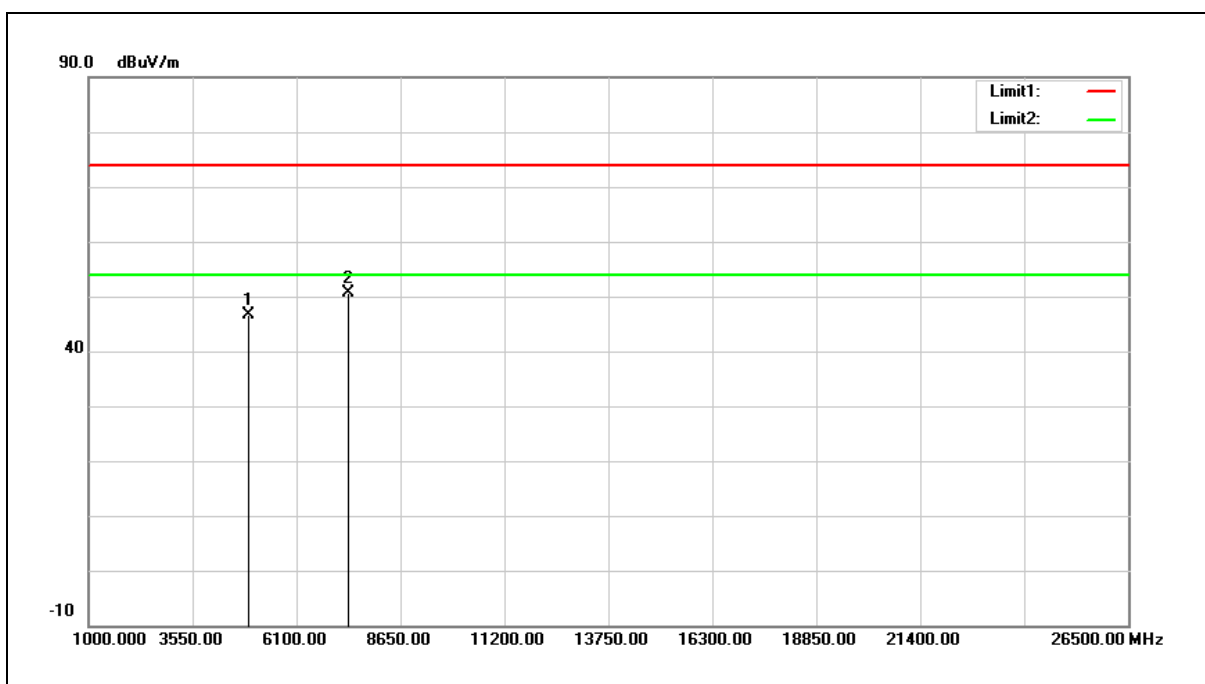
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	42.65	6.18	48.83	74.00	-25.17	peak
2	7386.000	39.99	12.93	52.92	74.00	-21.08	peak
3	7386.000	36.09	12.93	49.02	54.00	-4.98	AVG

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

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

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

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



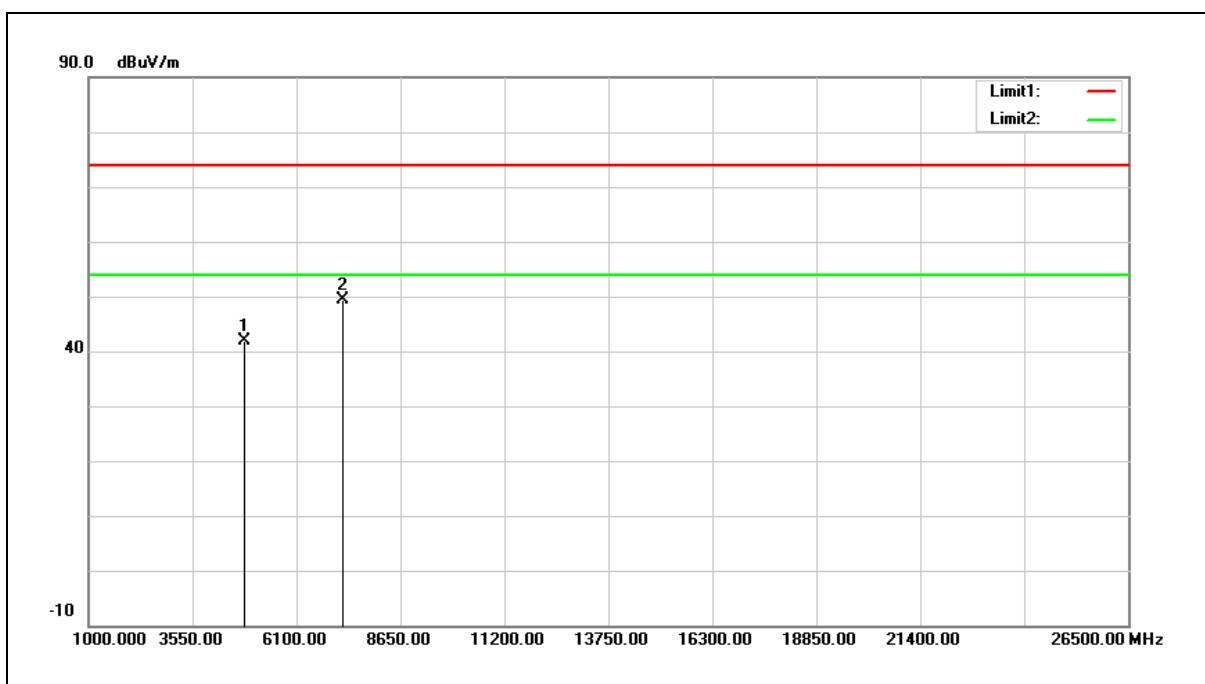
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	40.47	6.18	46.65	74.00	-27.35	peak
2	7386.000	37.67	12.93	50.60	74.00	-23.40	peak

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

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

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

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



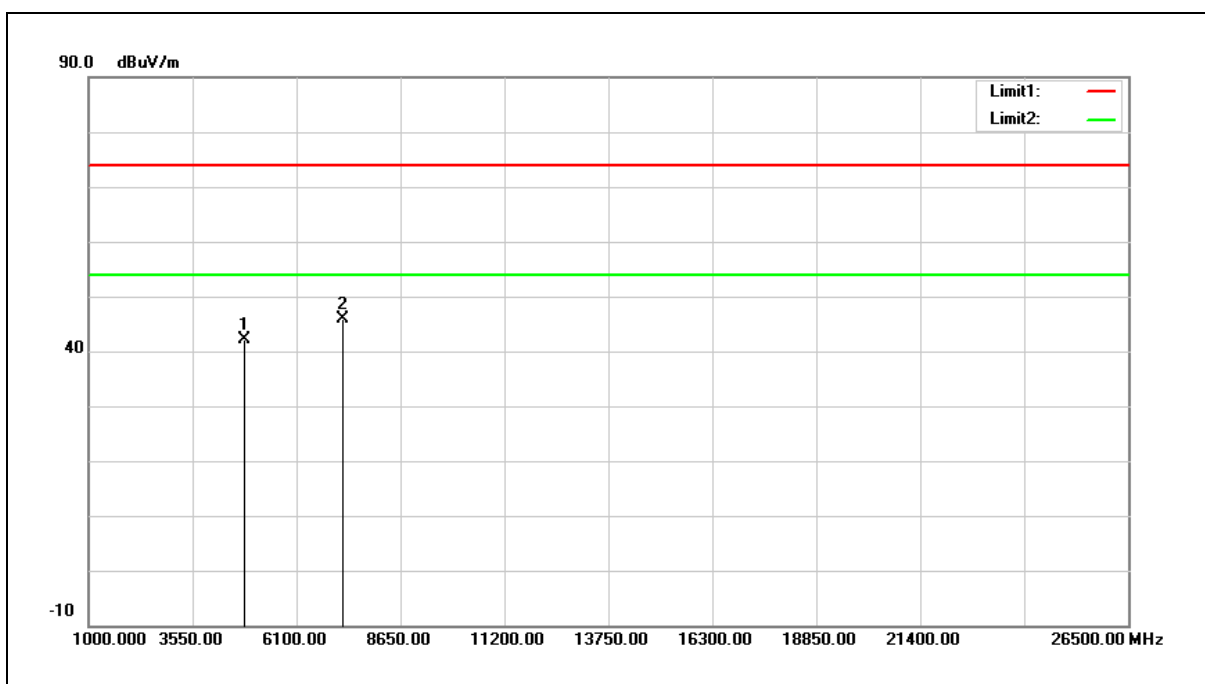
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	36.04	5.88	41.92	74.00	-32.08	peak
2	7236.000	36.97	12.42	49.39	74.00	-24.61	peak

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

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

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

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



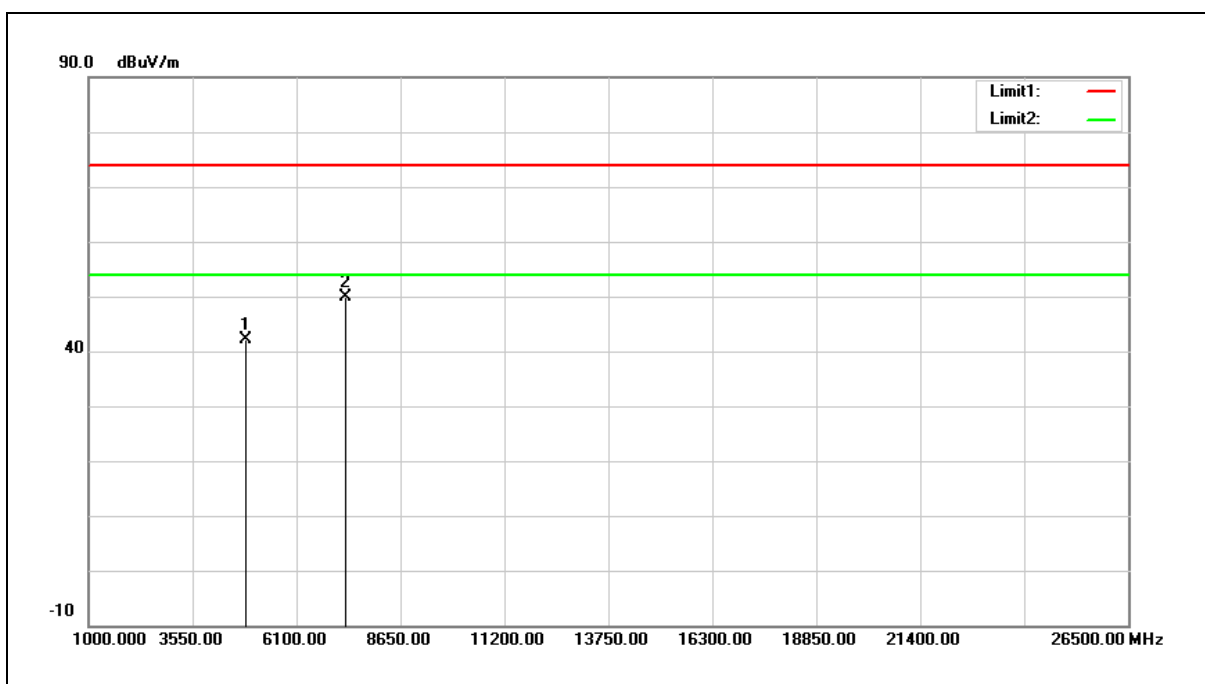
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	36.28	5.88	42.16	74.00	-31.84	peak
2	7236.000	33.55	12.42	45.97	74.00	-28.03	peak

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	36.16	6.03	42.19	74.00	-31.81	peak
2	7311.000	37.33	12.67	50.00	74.00	-24.00	peak

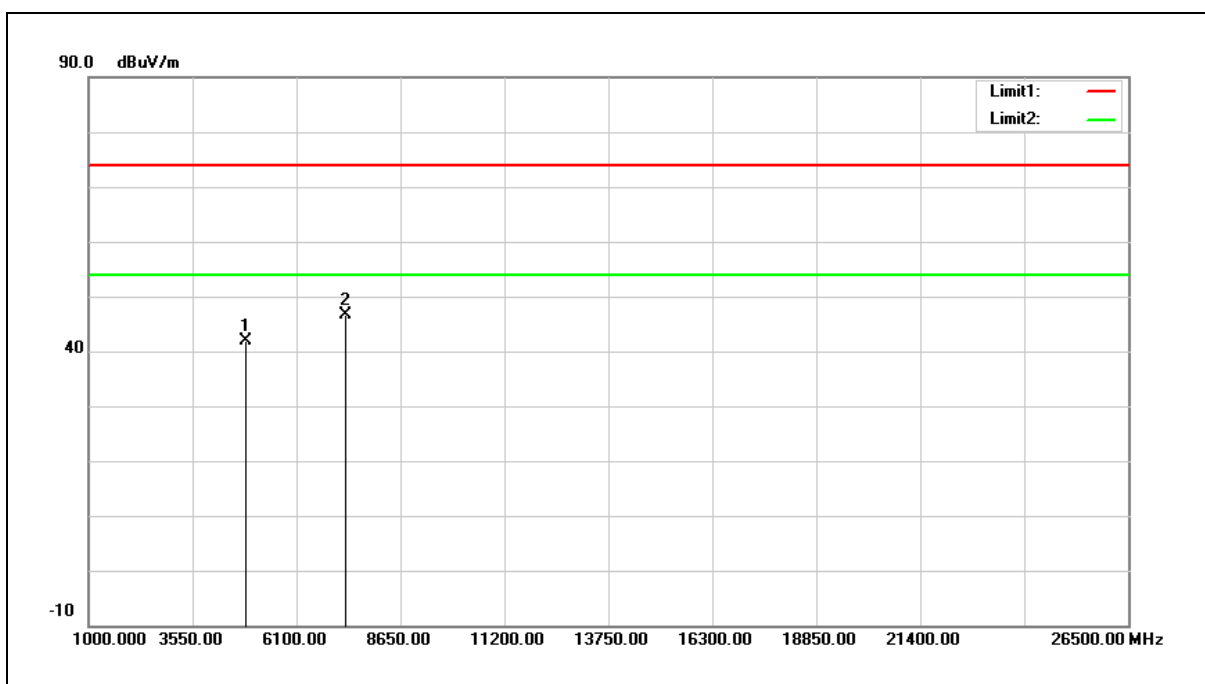
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



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



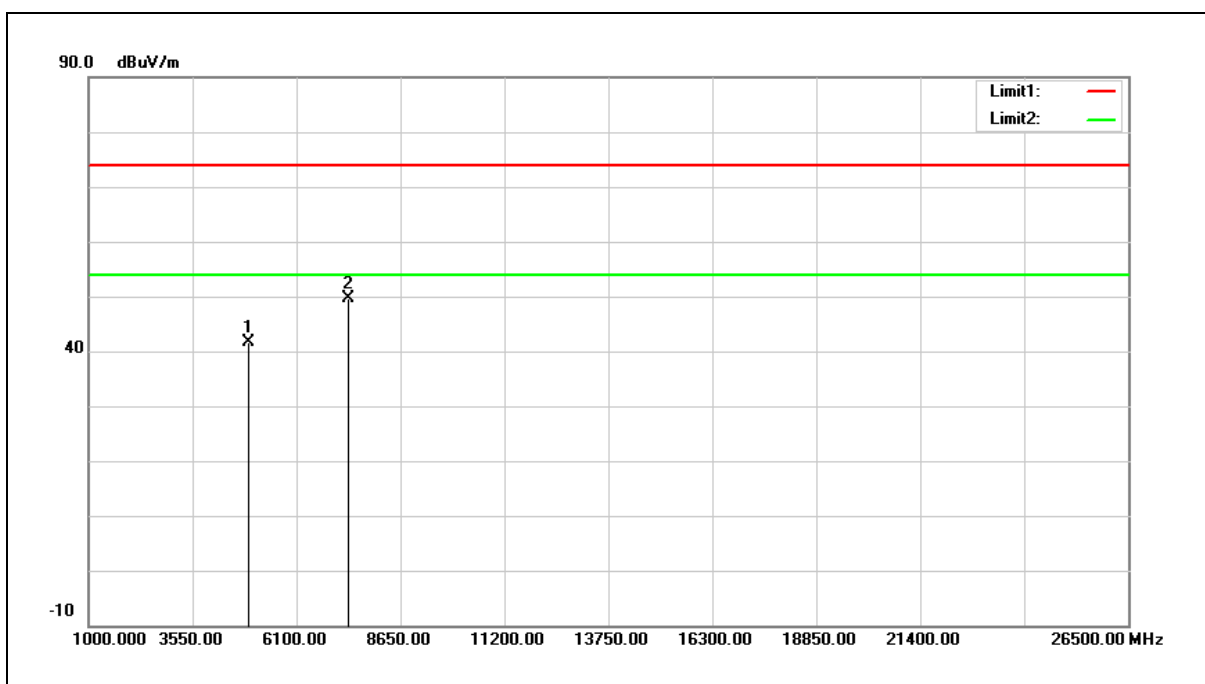
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	35.83	6.03	41.86	74.00	-32.14	peak
2	7311.000	33.88	12.67	46.55	74.00	-27.45	peak

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

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

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

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



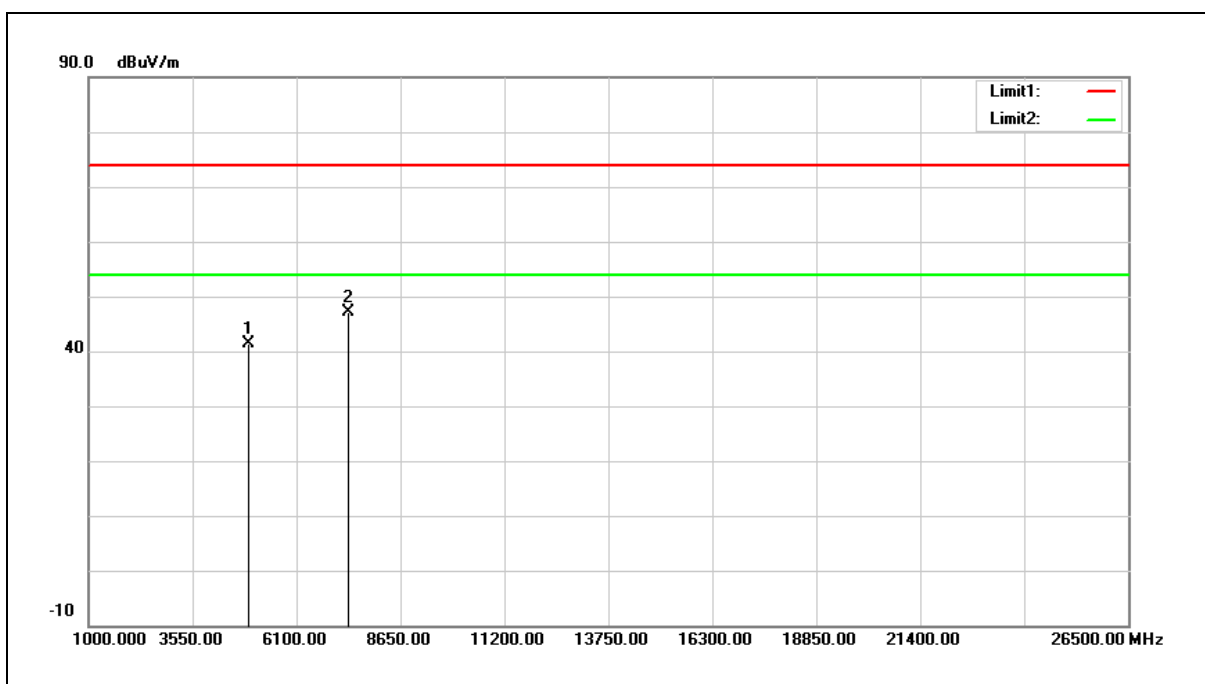
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.39	6.18	41.57	74.00	-32.43	peak
2	7386.000	36.60	12.93	49.53	74.00	-24.47	peak

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

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

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

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



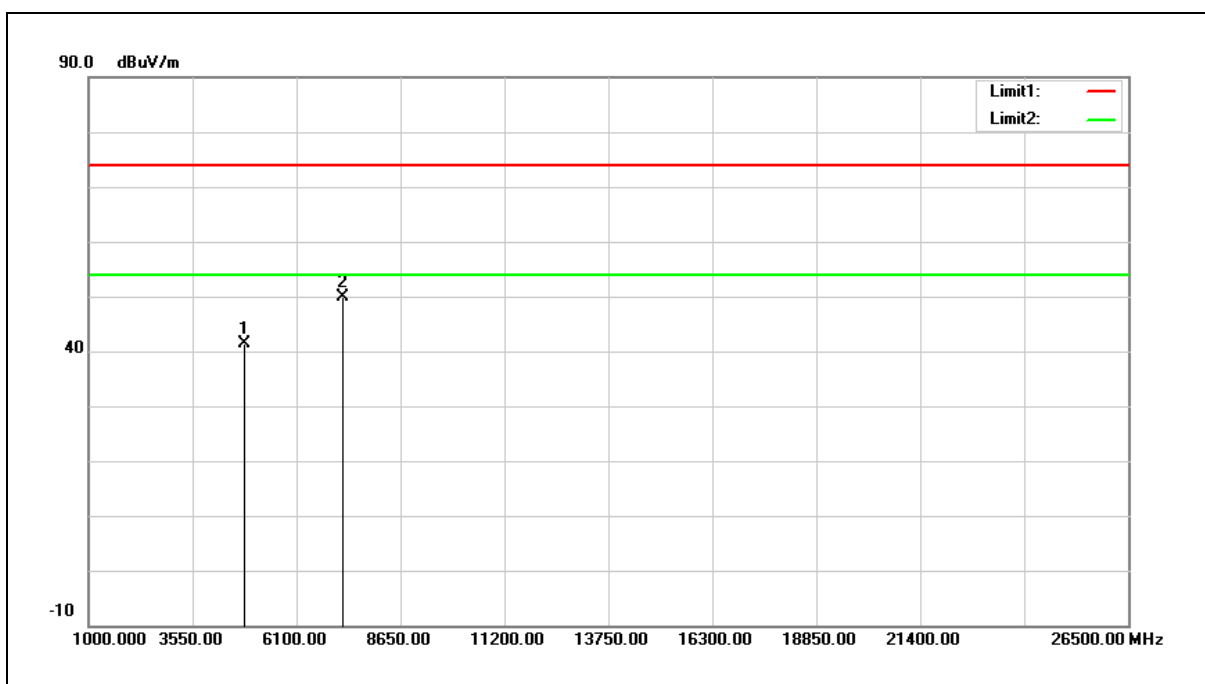
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.23	6.18	41.41	74.00	-32.59	peak
2	7386.000	34.15	12.93	47.08	74.00	-26.92	peak

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

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

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

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



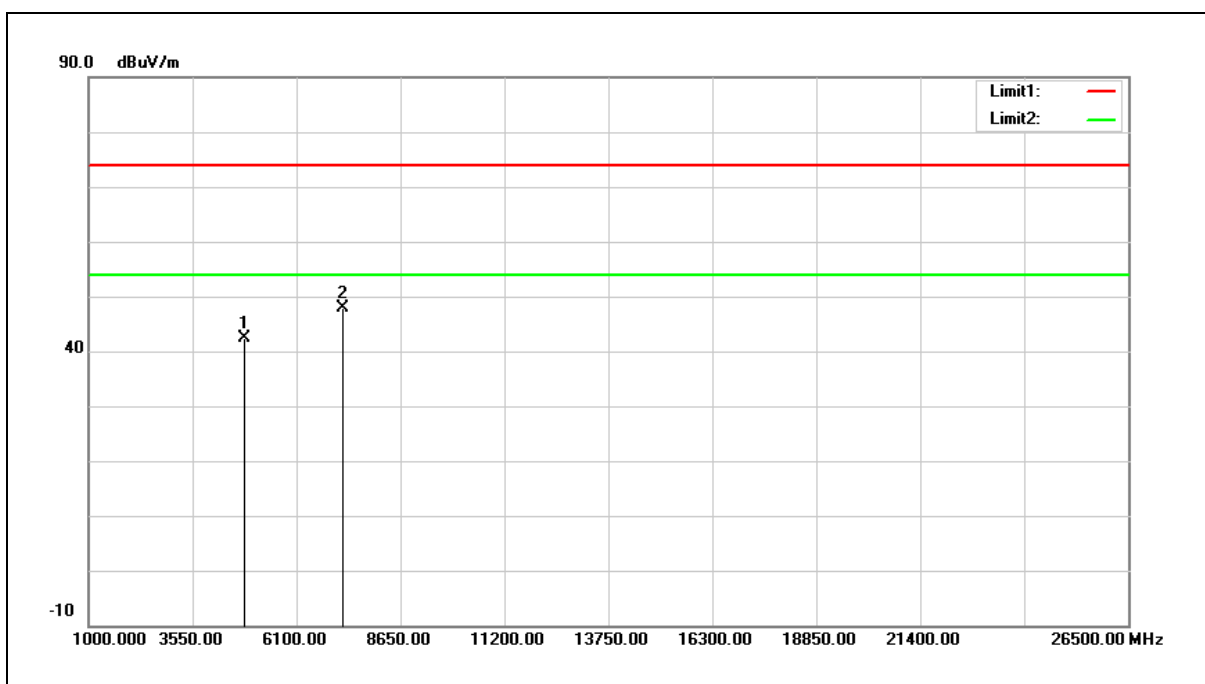
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	35.58	5.88	41.46	74.00	-32.54	peak
2	7236.000	37.52	12.42	49.94	74.00	-24.06	peak

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

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

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

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



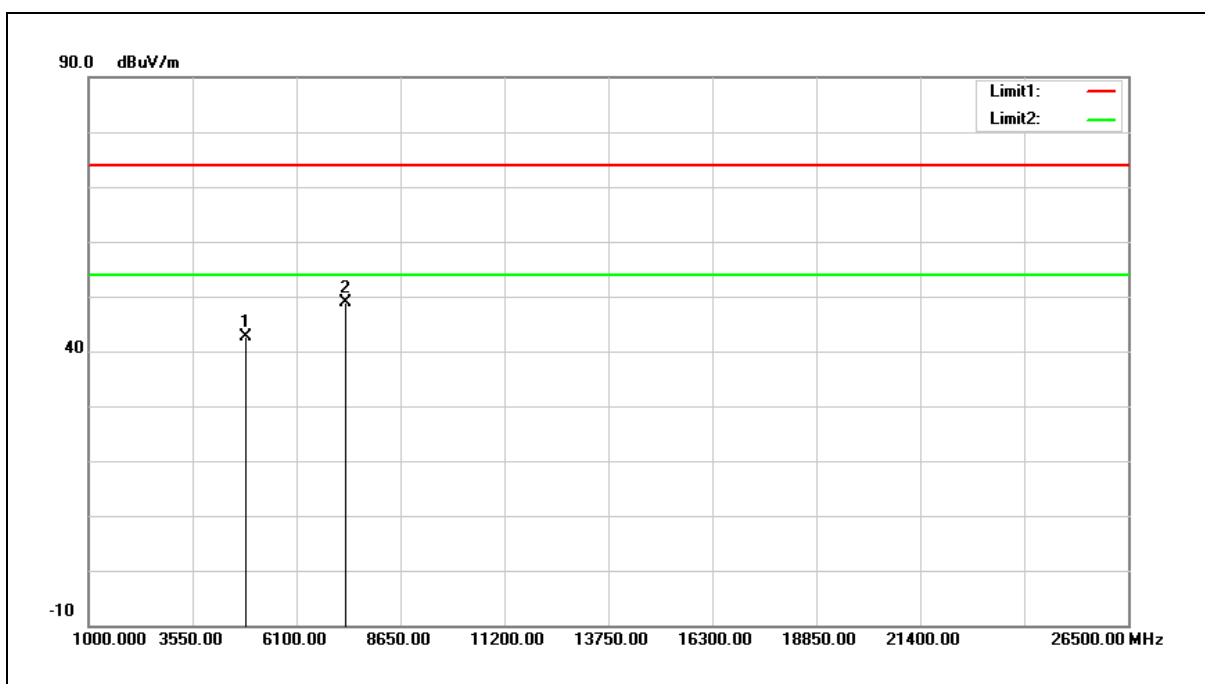
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	36.48	5.88	42.36	74.00	-31.64	peak
2	7236.000	35.44	12.42	47.86	74.00	-26.14	peak

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

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

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

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



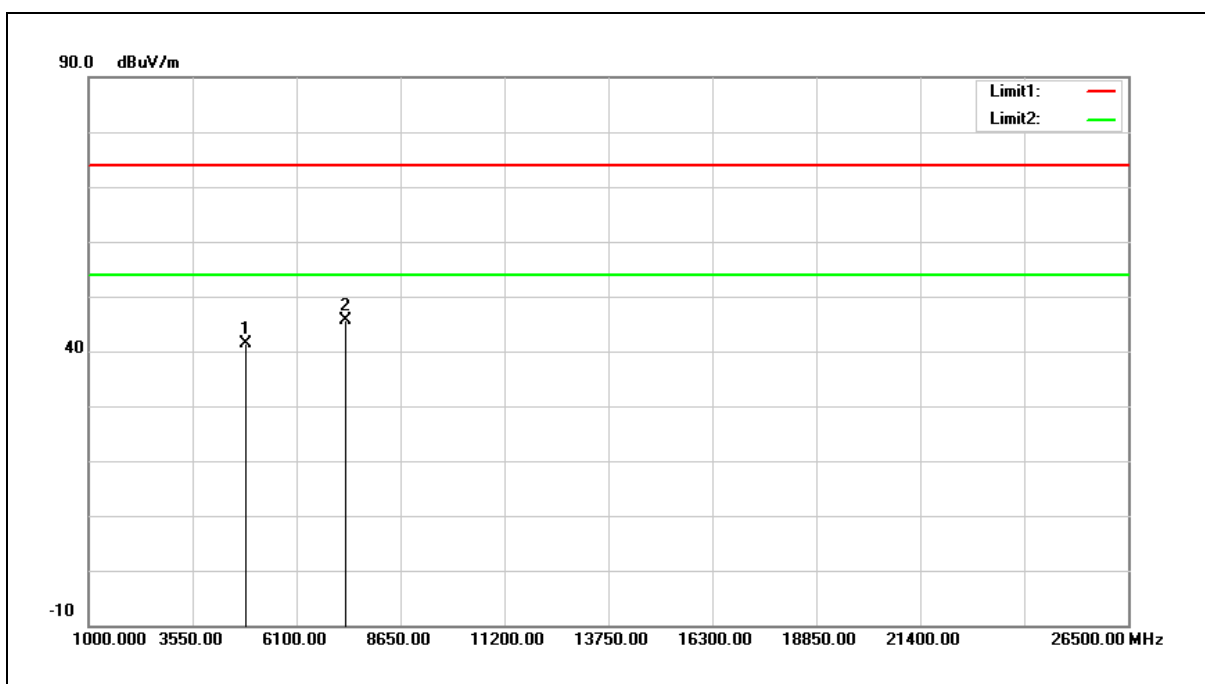
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	36.72	6.03	42.75	74.00	-31.25	peak
2	7311.000	36.20	12.67	48.87	74.00	-25.13	peak

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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



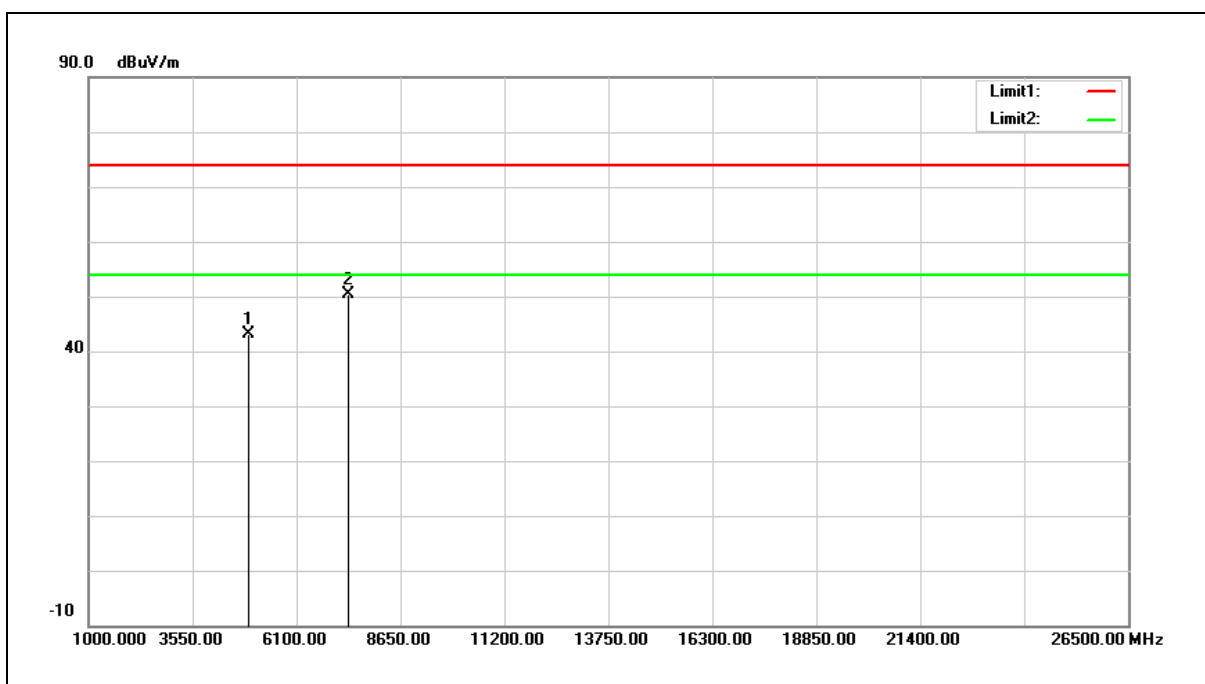
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	35.37	6.03	41.40	74.00	-32.60	peak
2	7311.000	32.98	12.67	45.65	74.00	-28.35	peak

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

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

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

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



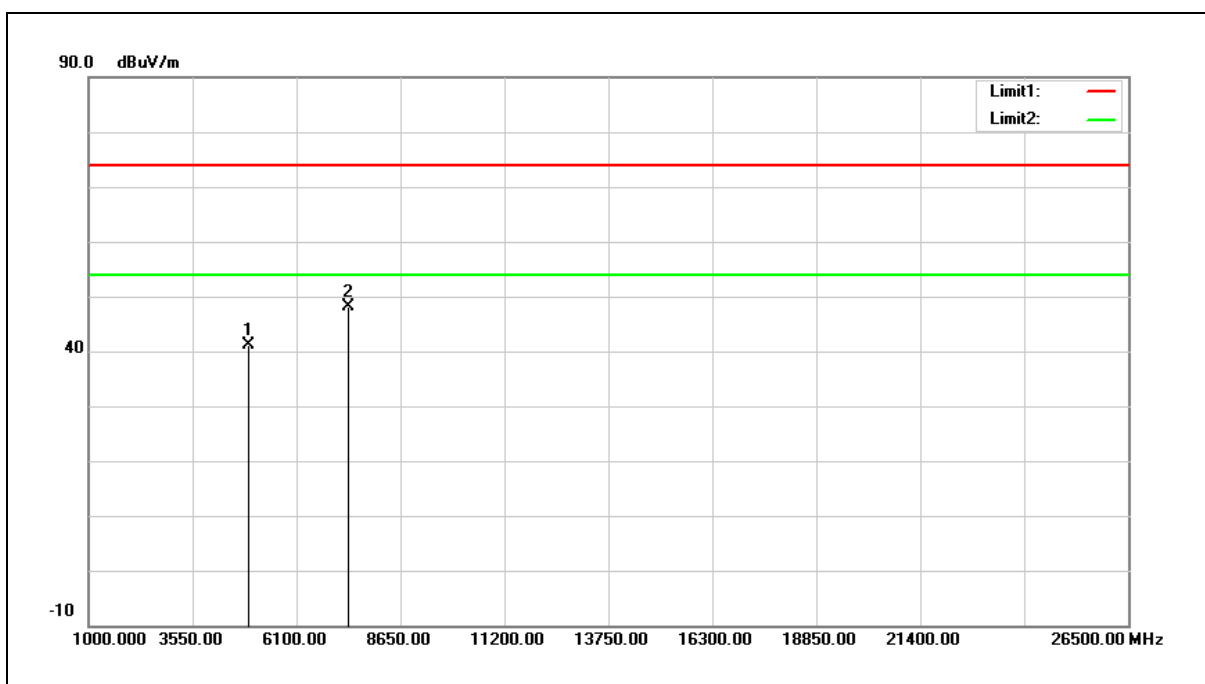
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	36.83	6.18	43.01	74.00	-30.99	peak
2	7386.000	37.51	12.93	50.44	74.00	-23.56	peak

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

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

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

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



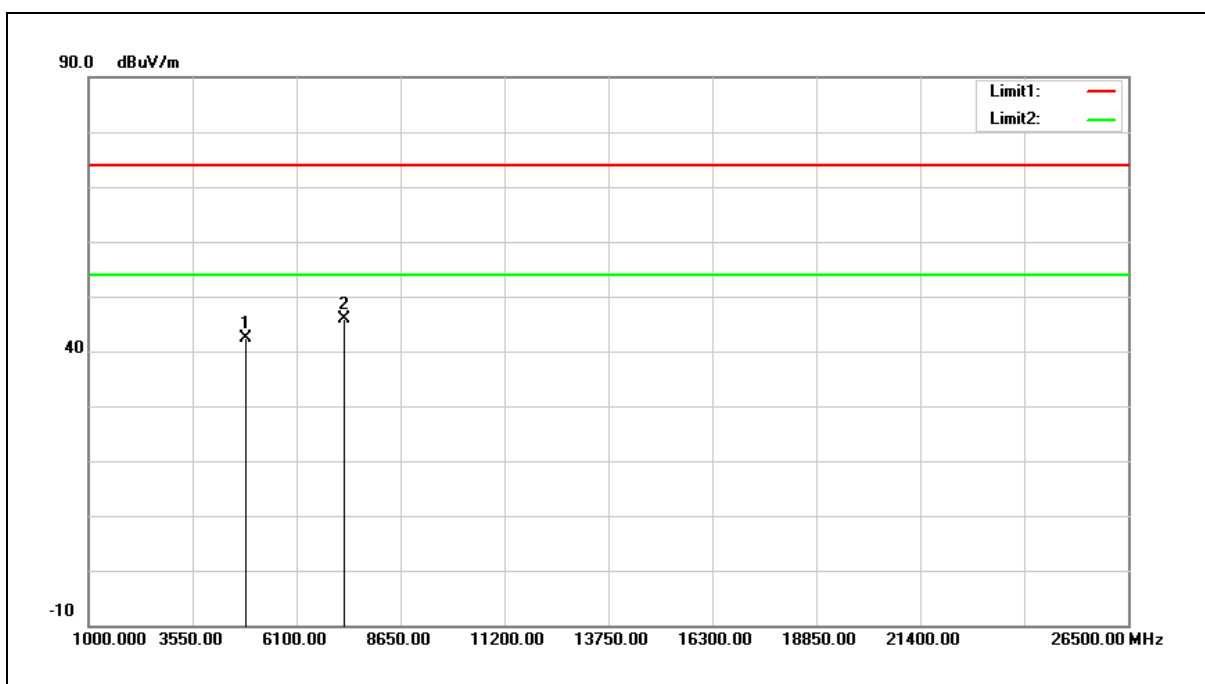
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.89	6.18	41.07	74.00	-32.93	peak
2	7386.000	35.12	12.93	48.05	74.00	-25.95	peak

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

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

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

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



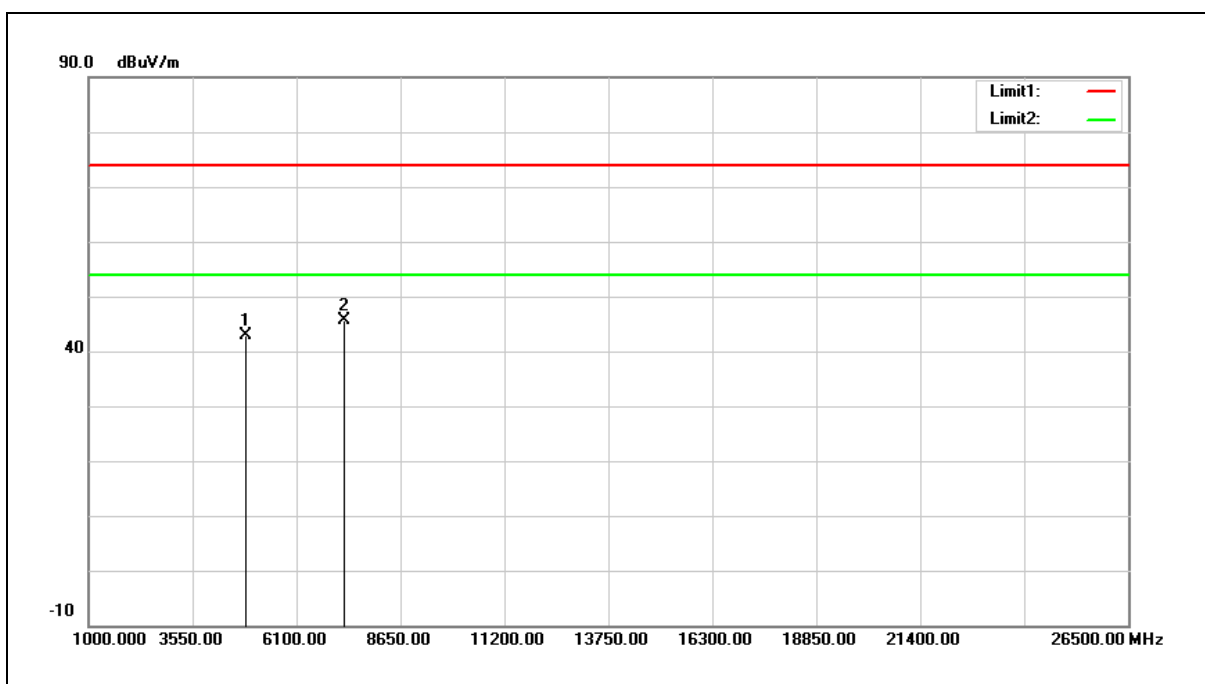
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	36.52	5.95	42.47	74.00	-31.53	peak
2	7266.000	33.34	12.53	45.87	74.00	-28.13	peak

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.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



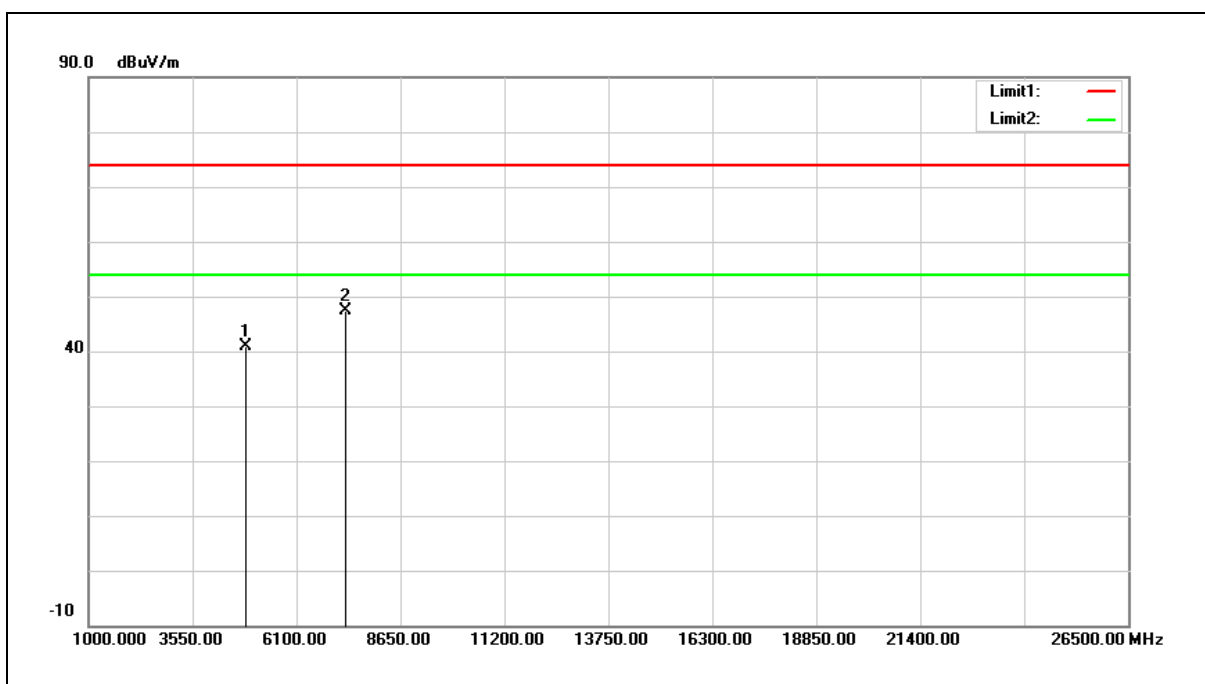
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	36.90	5.95	42.85	74.00	-31.15	peak
2	7266.000	33.22	12.53	45.75	74.00	-28.25	peak

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

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

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

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



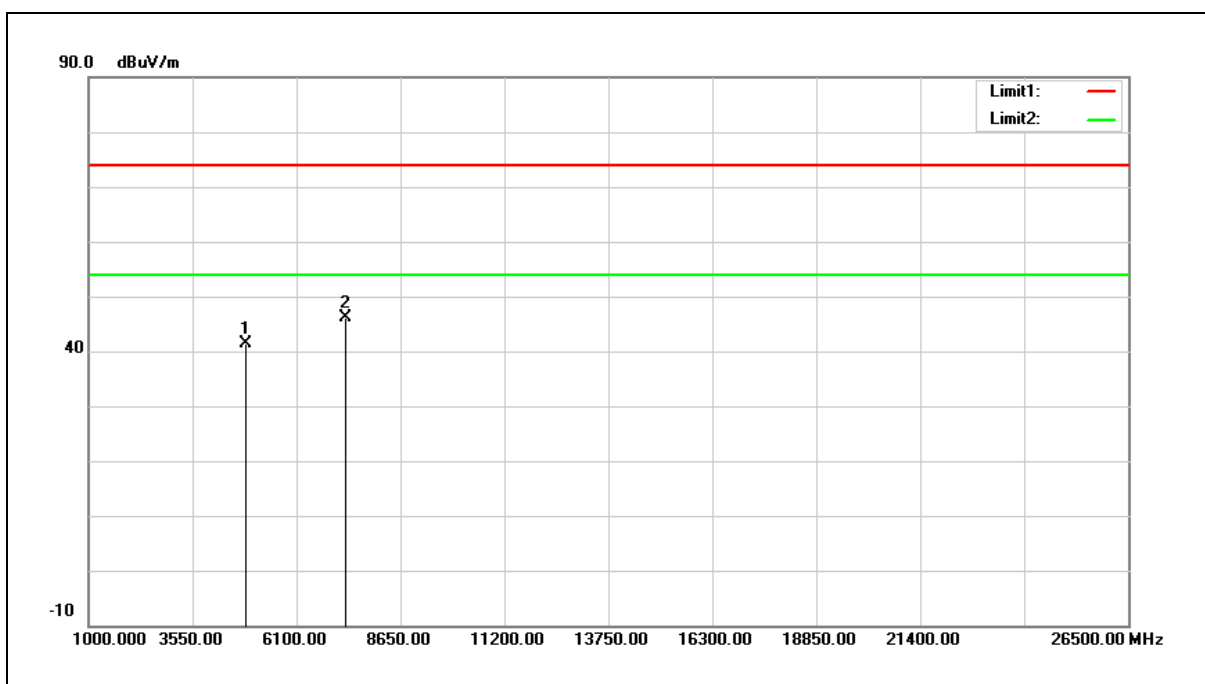
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	6.03	40.81	74.00	-33.19	peak
2	7311.000	34.63	12.67	47.30	74.00	-26.70	peak

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

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

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

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



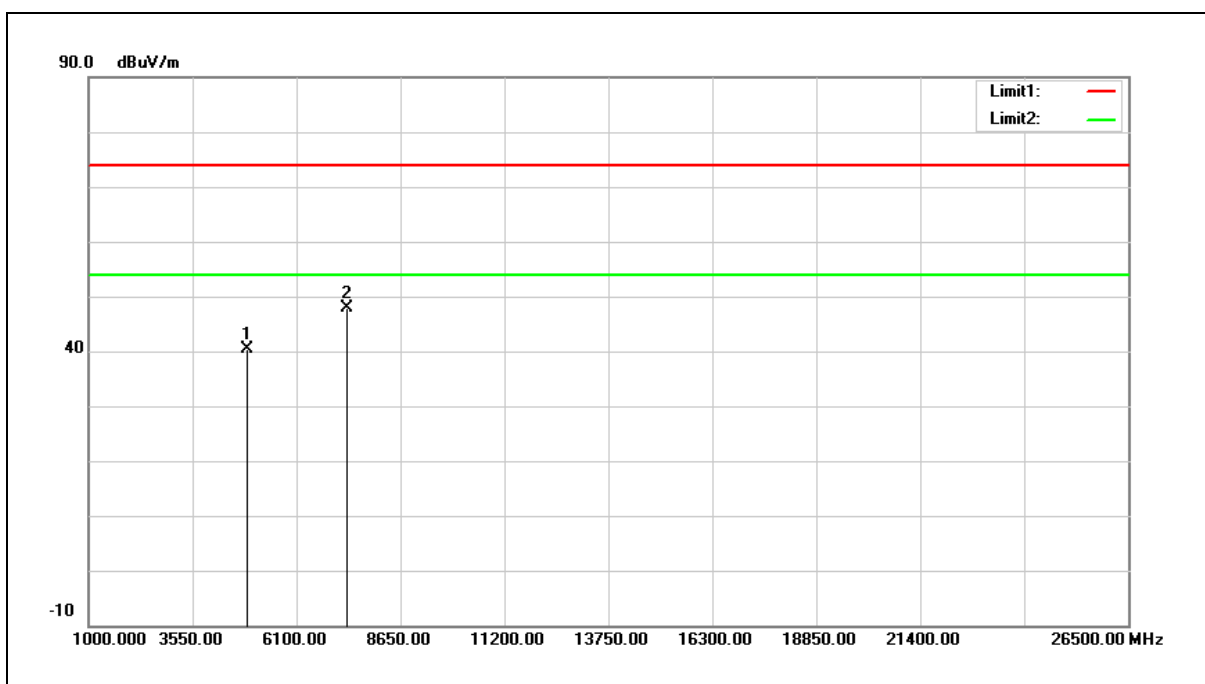
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	35.31	6.03	41.34	74.00	-32.66	peak
2	7311.000	33.45	12.67	46.12	74.00	-27.88	peak

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

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

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

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



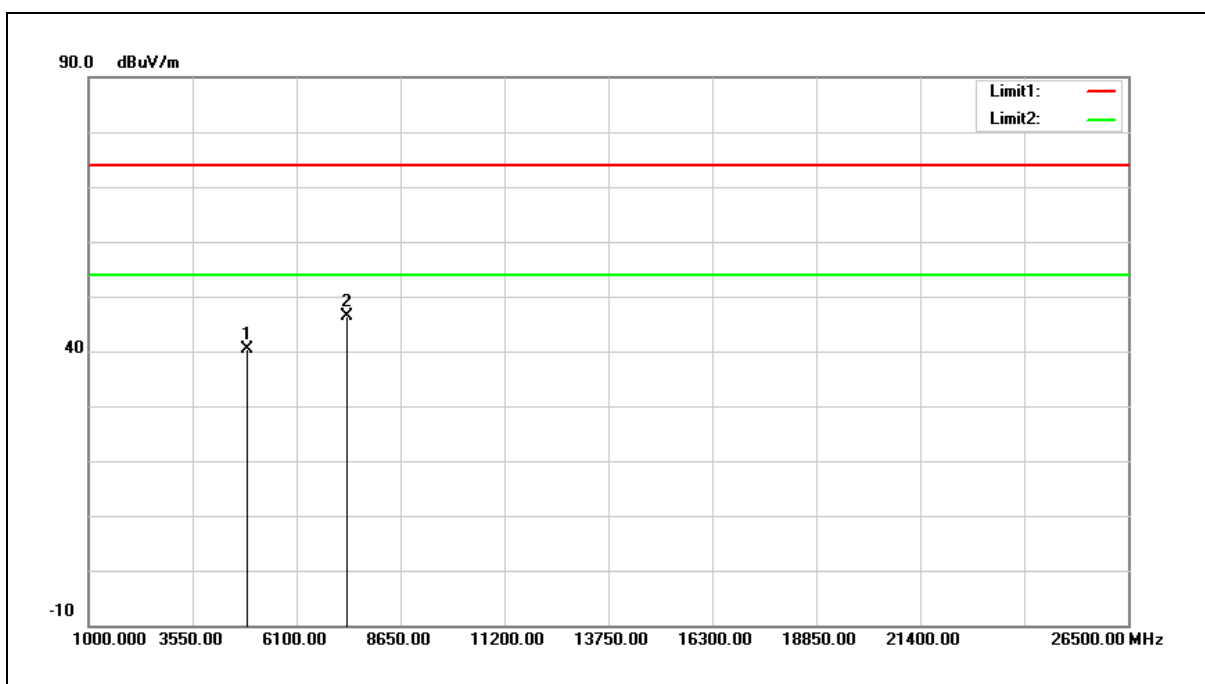
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	34.18	6.12	40.30	74.00	-33.70	peak
2	7356.000	35.06	12.83	47.89	74.00	-26.11	peak

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	34.37	6.12	40.49	74.00	-33.51	peak
2	7356.000	33.65	12.83	46.48	74.00	-27.52	peak

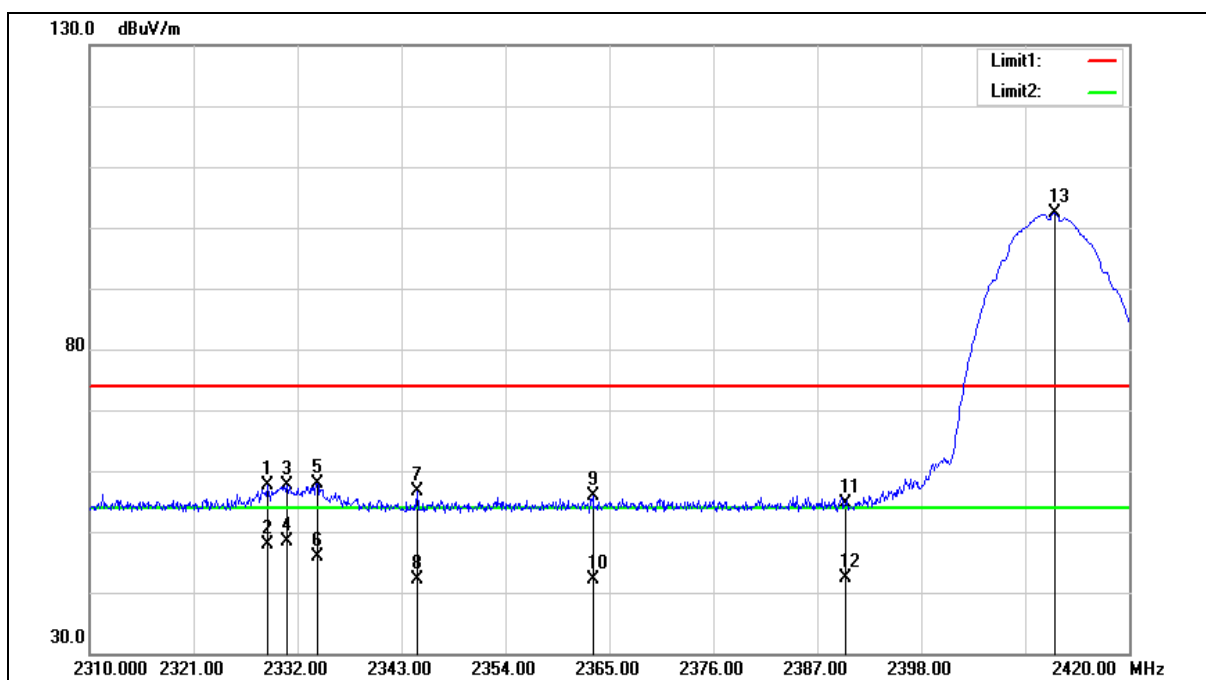
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

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

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

Band Edge

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2328.810	58.72	-1.13	57.59	74.00	-16.41	peak
2	2328.810	49.00	-1.13	47.87	54.00	-6.13	AVG
3	2330.900	58.80	-1.12	57.68	74.00	-16.32	peak
4	2330.900	49.38	-1.12	48.26	54.00	-5.74	AVG
5	2334.090	59.04	-1.10	57.94	74.00	-16.06	peak
6	2334.090	47.01	-1.10	45.91	54.00	-8.09	AVG
7	2344.650	57.75	-1.05	56.70	74.00	-17.30	peak
8	2344.650	43.20	-1.05	42.15	54.00	-11.85	AVG
9	2363.240	56.82	-0.96	55.86	74.00	-18.14	peak

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

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

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



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

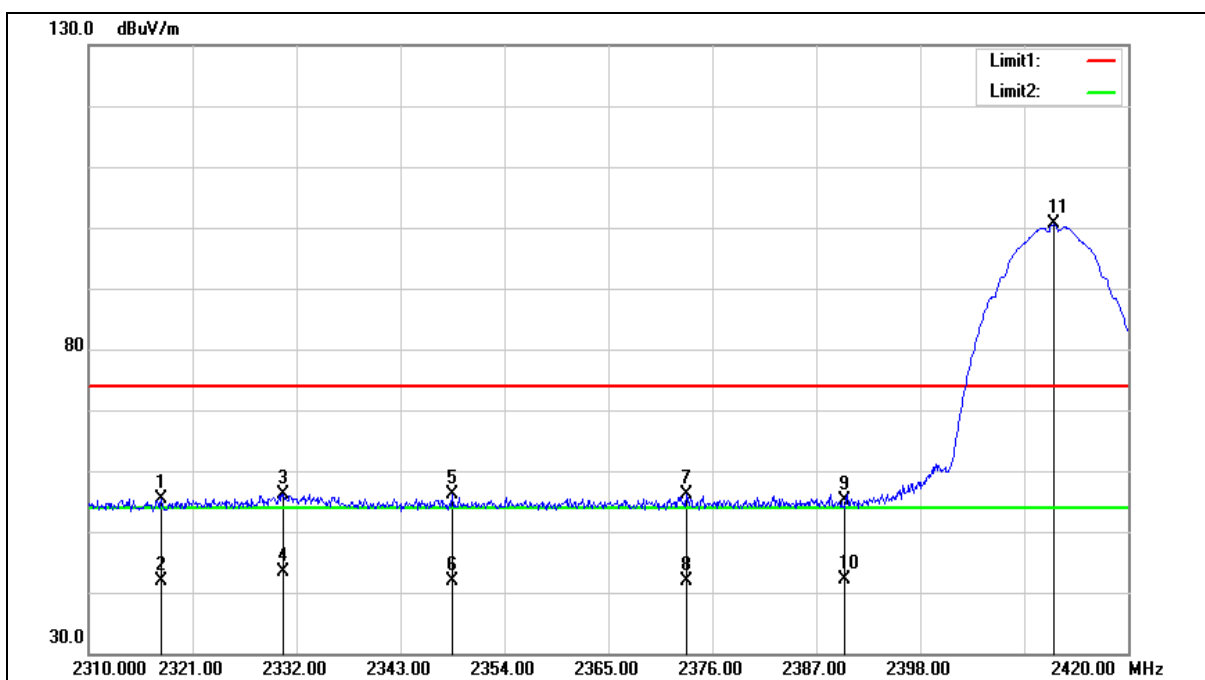
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2363.240	43.02	-0.96	42.06	54.00	-11.94	AVG
11	2390.000	55.51	-0.82	54.69	74.00	-19.31	peak
12	2390.000	43.25	-0.82	42.43	54.00	-11.57	AVG
13	2412.190	103.09	-0.71	102.38	--	--	peak

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2317.700	56.53	-1.19	55.34	74.00	-18.66	peak
2	2317.700	42.96	-1.19	41.77	54.00	-12.23	AVG
3	2330.570	57.24	-1.13	56.11	74.00	-17.89	peak
4	2330.570	44.49	-1.13	43.36	54.00	-10.64	AVG
5	2348.500	57.20	-1.04	56.16	74.00	-17.84	peak
6	2348.500	42.89	-1.04	41.85	54.00	-12.15	AVG
7	2373.250	57.08	-0.91	56.17	74.00	-17.83	peak
8	2373.250	42.85	-0.91	41.94	54.00	-12.06	AVG
9	2390.000	55.85	-0.82	55.03	74.00	-18.97	peak

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

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

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



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

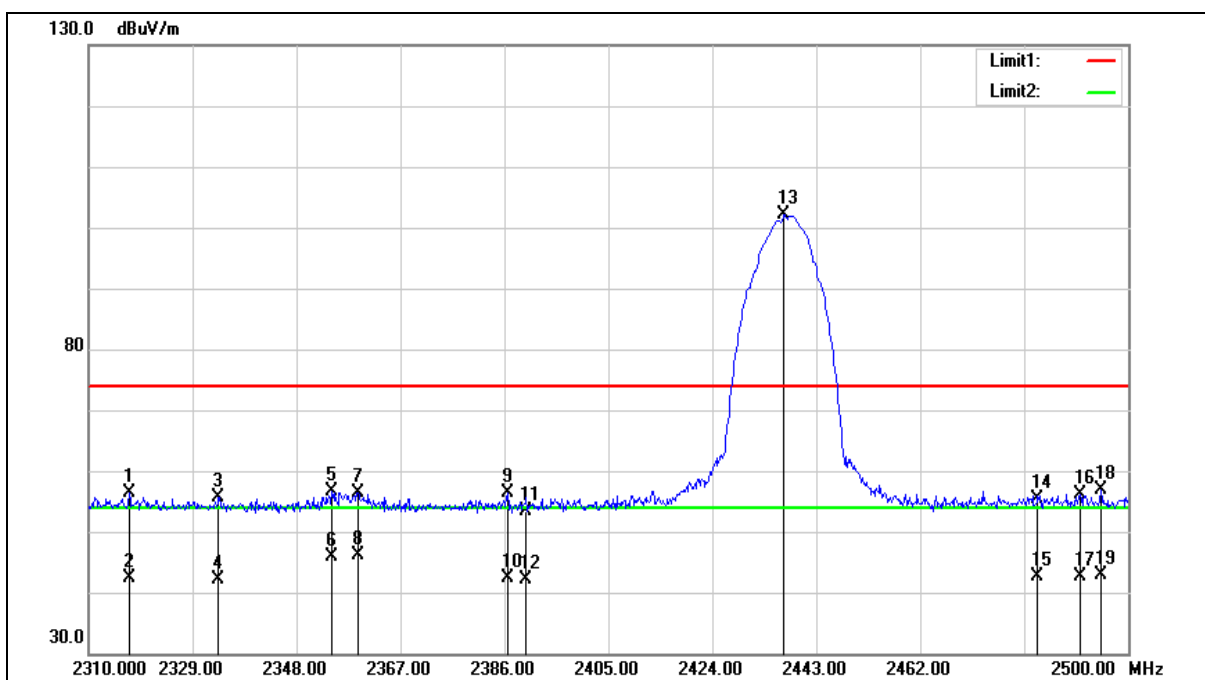
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2390.000	42.87	-0.82	42.05	54.00	-11.95	AVG
11	2412.080	101.27	-0.71	100.56	--	--	peak

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2317.410	57.47	-1.19	56.28	74.00	-17.72	peak
2	2317.410	43.63	-1.19	42.44	54.00	-11.56	AVG
3	2333.750	56.85	-1.11	55.74	74.00	-18.26	peak
4	2333.750	43.36	-1.11	42.25	54.00	-11.75	AVG
5	2354.460	57.66	-1.00	56.66	74.00	-17.34	peak
6	2354.460	46.97	-1.00	45.97	54.00	-8.03	AVG
7	2359.210	57.43	-0.99	56.44	74.00	-17.56	peak
8	2359.210	47.18	-0.99	46.19	54.00	-7.81	AVG
9	2386.570	57.16	-0.85	56.31	74.00	-17.69	peak

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

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

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

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

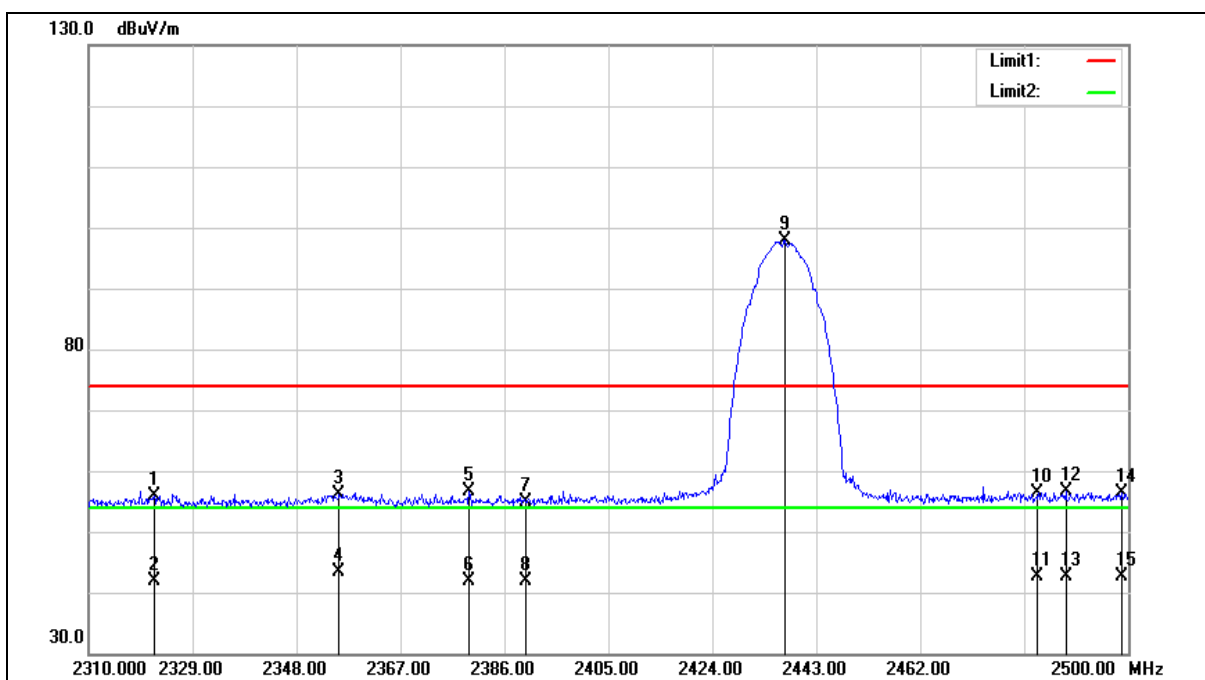
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2386.570	43.13	-0.85	42.28	54.00	-11.72	AVG
11	2390.000	54.24	-0.82	53.42	74.00	-20.58	peak
12	2390.000	42.92	-0.82	42.10	54.00	-11.90	AVG
13	2437.110	102.77	-0.58	102.19	--	--	peak
14	2483.500	55.62	-0.35	55.27	74.00	-18.73	peak
15	2483.500	43.00	-0.35	42.65	54.00	-11.35	AVG
16	2491.260	56.45	-0.31	56.14	74.00	-17.86	peak
17	2491.260	43.03	-0.31	42.72	54.00	-11.28	AVG
18	2495.060	57.06	-0.29	56.77	74.00	-17.23	peak
19	2495.060	43.19	-0.29	42.90	54.00	-11.10	AVG

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2321.970	57.07	-1.17	55.90	74.00	-18.10	peak
2	2321.970	43.12	-1.17	41.95	54.00	-12.05	AVG
3	2355.790	57.23	-0.99	56.24	74.00	-17.76	peak
4	2355.790	44.36	-0.99	43.37	54.00	-10.63	AVG
5	2379.540	57.48	-0.88	56.60	74.00	-17.40	peak
6	2379.540	42.86	-0.88	41.98	54.00	-12.02	AVG
7	2390.000	55.58	-0.82	54.76	74.00	-19.24	peak
8	2390.000	42.82	-0.82	42.00	54.00	-12.00	AVG
9	2437.300	98.54	-0.58	97.96	--	--	peak

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

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

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



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

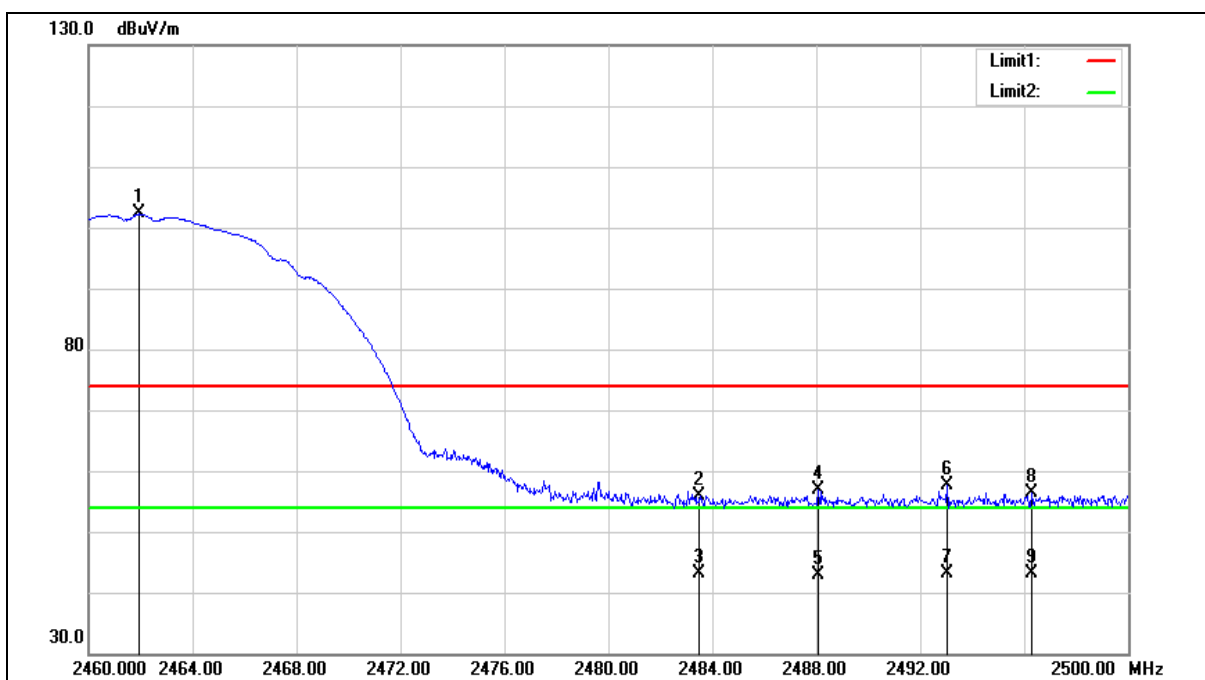
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2483.500	56.67	-0.35	56.32	74.00	-17.68	peak
11	2483.500	42.94	-0.35	42.59	54.00	-11.41	AVG
12	2488.600	56.94	-0.32	56.62	74.00	-17.38	peak
13	2488.600	42.94	-0.32	42.62	54.00	-11.38	AVG
14	2498.860	56.58	-0.26	56.32	74.00	-17.68	peak
15	2498.860	42.94	-0.26	42.68	54.00	-11.32	AVG

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

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

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

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



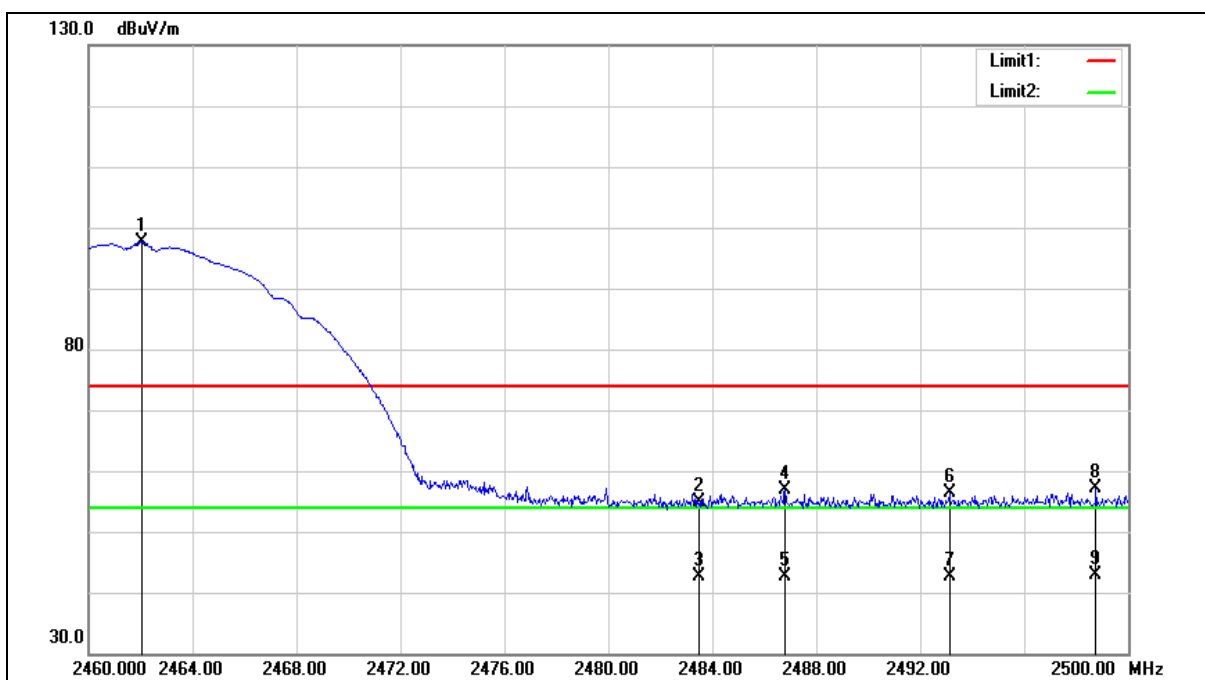
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.920	102.73	-0.46	102.27	--	--	peak
2	2483.500	56.11	-0.35	55.76	74.00	-18.24	peak
3	2483.500	43.38	-0.35	43.03	54.00	-10.97	AVG
4	2488.080	57.09	-0.32	56.77	74.00	-17.23	peak
5	2488.080	43.19	-0.32	42.87	54.00	-11.13	AVG
6	2493.040	57.80	-0.29	57.51	74.00	-16.49	peak
7	2493.040	43.40	-0.29	43.11	54.00	-10.89	AVG
8	2496.280	56.71	-0.28	56.43	74.00	-17.57	peak
9	2496.280	43.48	-0.28	43.20	54.00	-10.80	AVG

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

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

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

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



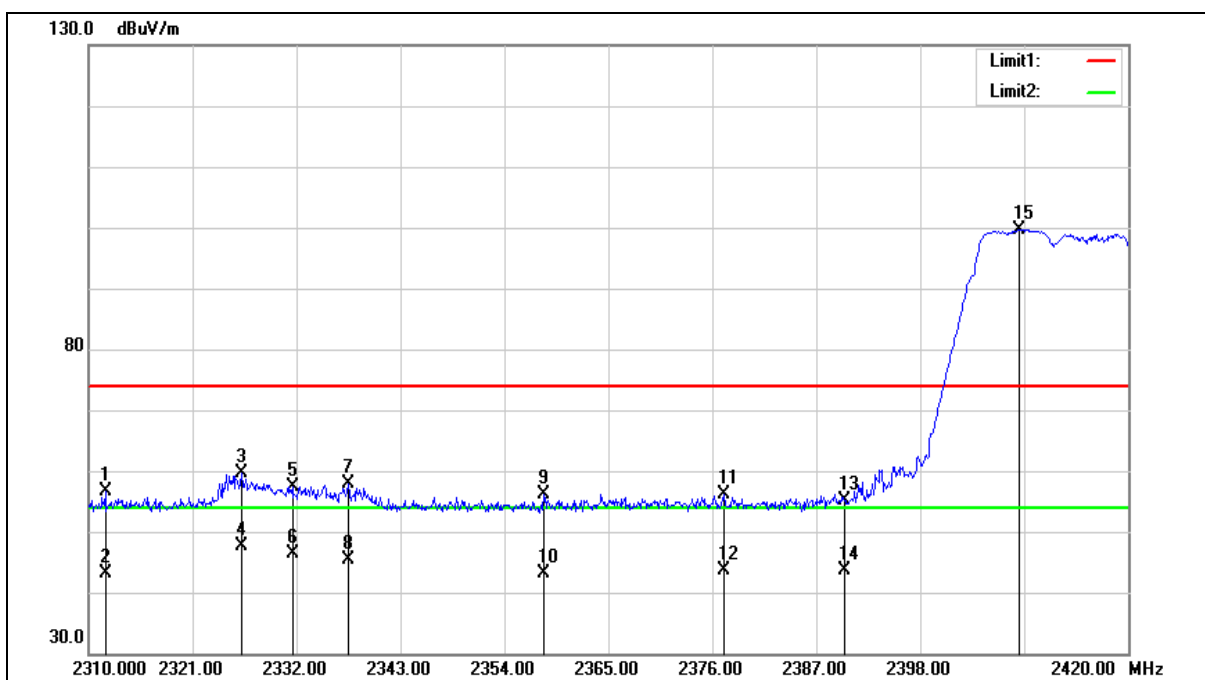
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.040	98.06	-0.46	97.60	--	--	peak
2	2483.500	55.34	-0.35	54.99	74.00	-19.01	peak
3	2483.500	43.07	-0.35	42.72	54.00	-11.28	AVG
4	2486.800	57.13	-0.32	56.81	74.00	-17.19	peak
5	2486.800	42.97	-0.32	42.65	54.00	-11.35	AVG
6	2493.120	56.69	-0.29	56.40	74.00	-17.60	peak
7	2493.120	42.84	-0.29	42.55	54.00	-11.45	AVG
8	2498.760	57.31	-0.26	57.05	74.00	-16.95	peak
9	2498.760	43.14	-0.26	42.88	54.00	-11.12	AVG

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2311.760	57.83	-1.22	56.61	74.00	-17.39	peak
2	2311.760	44.47	-1.22	43.25	54.00	-10.75	AVG
3	2326.170	60.79	-1.15	59.64	74.00	-14.36	peak
4	2326.170	48.82	-1.15	47.67	54.00	-6.33	AVG
5	2331.560	58.52	-1.12	57.40	74.00	-16.60	peak
6	2331.560	47.62	-1.12	46.50	54.00	-7.50	AVG
7	2337.500	58.92	-1.09	57.83	74.00	-16.17	peak
8	2337.500	46.57	-1.09	45.48	54.00	-8.52	AVG
9	2358.180	57.20	-0.99	56.21	74.00	-17.79	peak

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

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

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



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

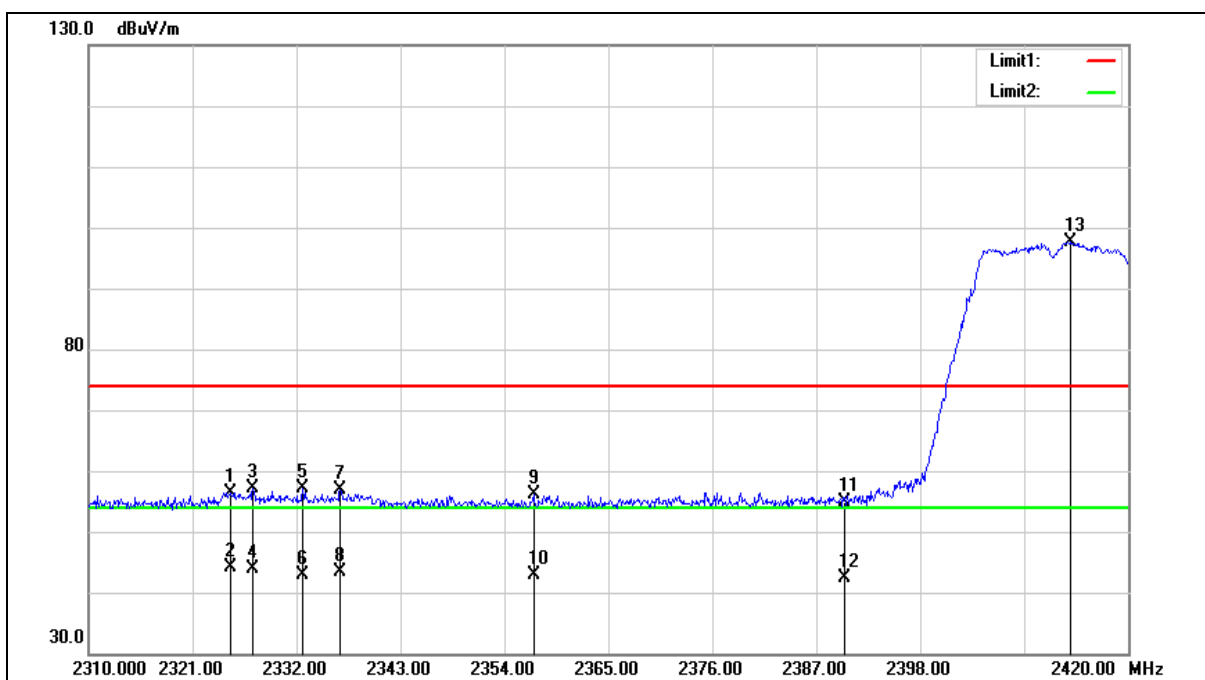
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2358.180	44.04	-0.99	43.05	54.00	-10.95	AVG
11	2377.210	56.95	-0.90	56.05	74.00	-17.95	peak
12	2377.210	44.46	-0.90	43.56	54.00	-10.44	AVG
13	2390.000	55.86	-0.82	55.04	74.00	-18.96	peak
14	2390.000	44.37	-0.82	43.55	54.00	-10.45	AVG
15	2408.450	100.42	-0.73	99.69	--	--	peak

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2324.960	57.61	-1.16	56.45	74.00	-17.55	peak
2	2324.960	45.22	-1.16	44.06	54.00	-9.94	AVG
3	2327.380	58.18	-1.14	57.04	74.00	-16.96	peak
4	2327.380	45.14	-1.14	44.00	54.00	-10.00	AVG
5	2332.660	58.22	-1.11	57.11	74.00	-16.89	peak
6	2332.660	44.09	-1.11	42.98	54.00	-11.02	AVG
7	2336.620	57.91	-1.10	56.81	74.00	-17.19	peak
8	2336.620	44.41	-1.10	43.31	54.00	-10.69	AVG
9	2357.080	57.05	-0.99	56.06	74.00	-17.94	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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

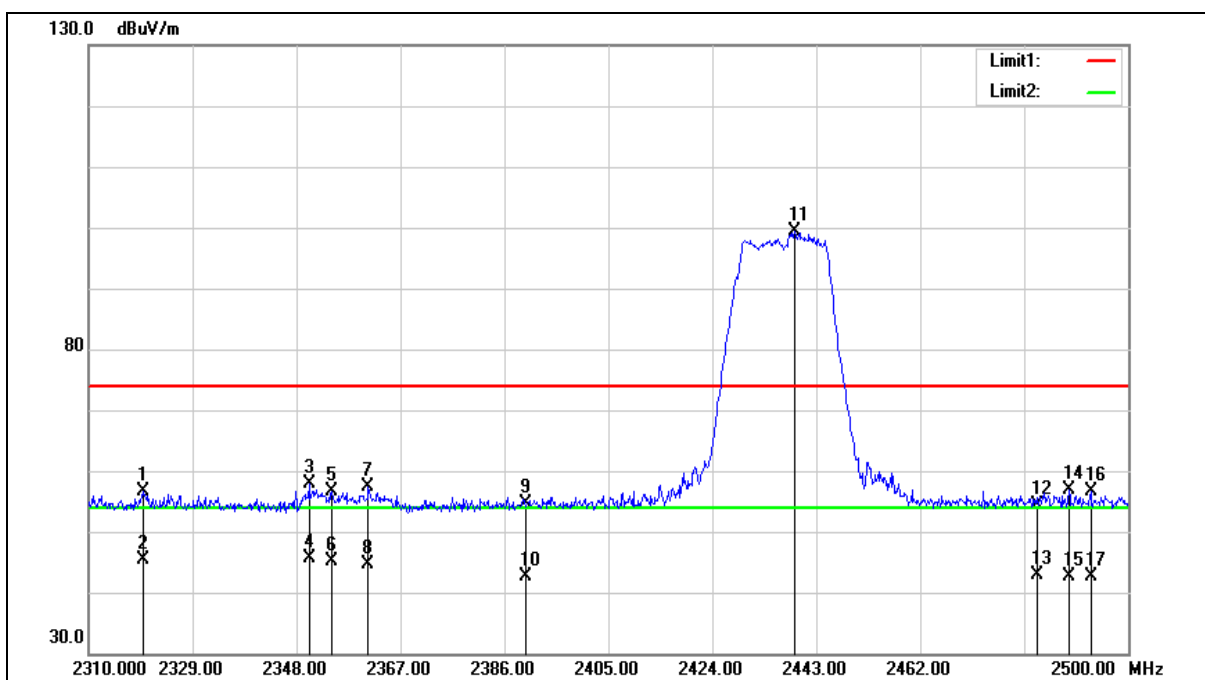
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2357.080	43.83	-0.99	42.84	54.00	-11.16	AVG
11	2390.000	55.78	-0.82	54.96	74.00	-19.04	peak
12	2390.000	43.14	-0.82	42.32	54.00	-11.68	AVG
13	2413.950	98.38	-0.70	97.68	--	--	peak

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2320.070	57.90	-1.18	56.72	74.00	-17.28	peak
2	2320.070	46.64	-1.18	45.46	54.00	-8.54	AVG
3	2350.280	58.85	-1.02	57.83	74.00	-16.17	peak
4	2350.280	46.55	-1.02	45.53	54.00	-8.47	AVG
5	2354.460	57.51	-1.00	56.51	74.00	-17.49	peak
6	2354.460	46.13	-1.00	45.13	54.00	-8.87	AVG
7	2361.110	58.32	-0.97	57.35	74.00	-16.65	peak
8	2361.110	45.70	-0.97	44.73	54.00	-9.27	AVG
9	2390.000	55.44	-0.82	54.62	74.00	-19.38	peak

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

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

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

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

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2390.000	43.55	-0.82	42.73	54.00	-11.27	AVG
11	2439.010	99.84	-0.58	99.26	--	--	peak
12	2483.500	54.73	-0.35	54.38	74.00	-19.62	peak
13	2483.500	43.26	-0.35	42.91	54.00	-11.09	AVG
14	2489.170	57.20	-0.32	56.88	74.00	-17.12	peak
15	2489.170	43.04	-0.32	42.72	54.00	-11.28	AVG
16	2493.160	56.86	-0.29	56.57	74.00	-17.43	peak
17	2493.160	42.90	-0.29	42.61	54.00	-11.39	AVG

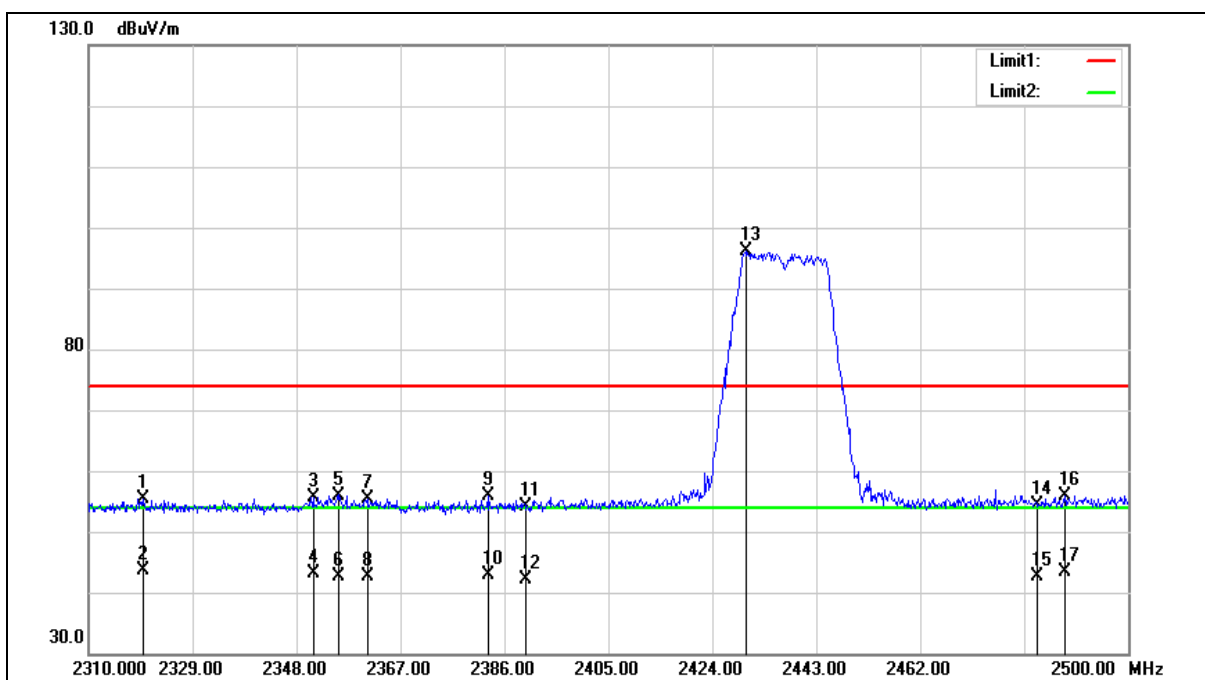
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2319.880	56.65	-1.18	55.47	74.00	-18.53	peak
2	2319.880	44.70	-1.18	43.52	54.00	-10.48	AVG
3	2351.040	56.70	-1.02	55.68	74.00	-18.32	peak
4	2351.040	44.06	-1.02	43.04	54.00	-10.96	AVG
5	2355.600	56.99	-0.99	56.00	74.00	-18.00	peak
6	2355.600	43.72	-0.99	42.73	54.00	-11.27	AVG
7	2360.920	56.38	-0.97	55.41	74.00	-18.59	peak
8	2360.920	43.64	-0.97	42.67	54.00	-11.33	AVG
9	2382.960	56.66	-0.87	55.79	74.00	-18.21	peak

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

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

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

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

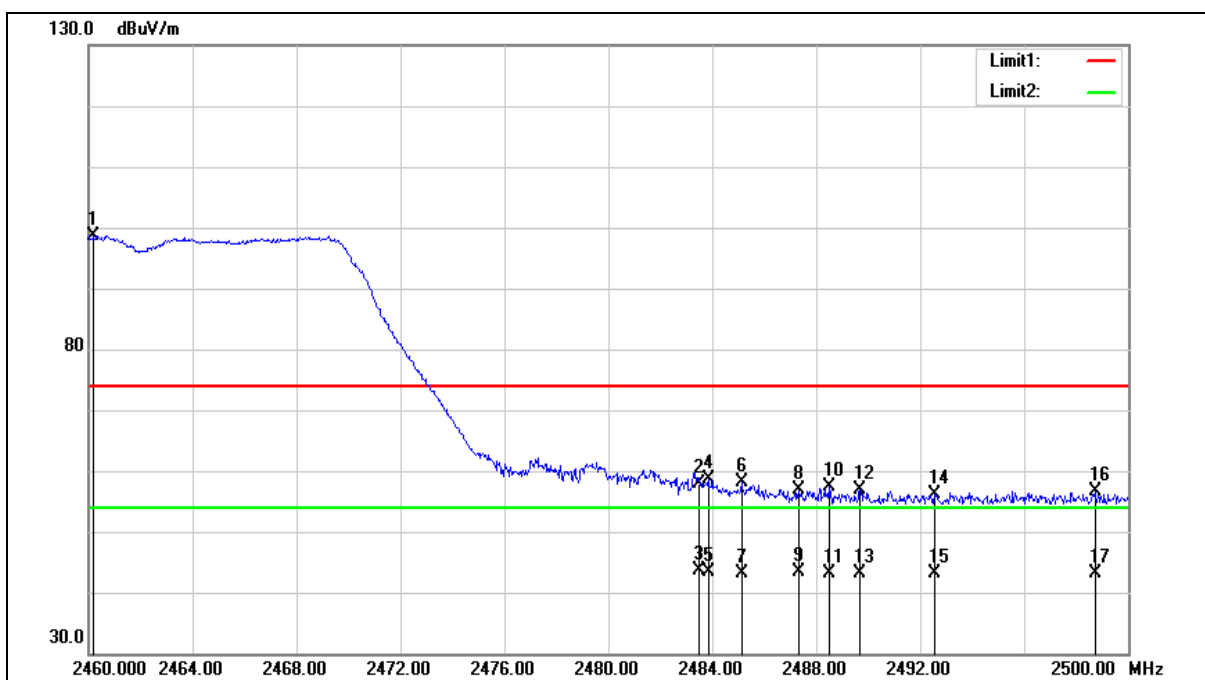
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2382.960	43.76	-0.87	42.89	54.00	-11.11	AVG
11	2390.000	55.06	-0.82	54.24	74.00	-19.76	peak
12	2390.000	42.91	-0.82	42.09	54.00	-11.91	AVG
13	2430.080	96.73	-0.62	96.11	--	--	peak
14	2483.500	54.79	-0.35	54.44	74.00	-19.56	peak
15	2483.500	42.97	-0.35	42.62	54.00	-11.38	AVG
16	2488.410	56.28	-0.32	55.96	74.00	-18.04	peak
17	2488.410	43.68	-0.32	43.36	54.00	-10.64	AVG

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.200	99.05	-0.47	98.58	--	--	peak
2	2483.500	58.35	-0.35	58.00	74.00	-16.00	peak
3	2483.500	43.87	-0.35	43.52	54.00	-10.48	AVG
4	2483.840	59.04	-0.34	58.70	74.00	-15.30	peak
5	2483.840	43.83	-0.34	43.49	54.00	-10.51	AVG
6	2485.120	58.44	-0.34	58.10	74.00	-15.90	peak
7	2485.120	43.55	-0.34	43.21	54.00	-10.79	AVG
8	2487.320	57.15	-0.32	56.83	74.00	-17.17	peak
9	2487.320	43.61	-0.32	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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

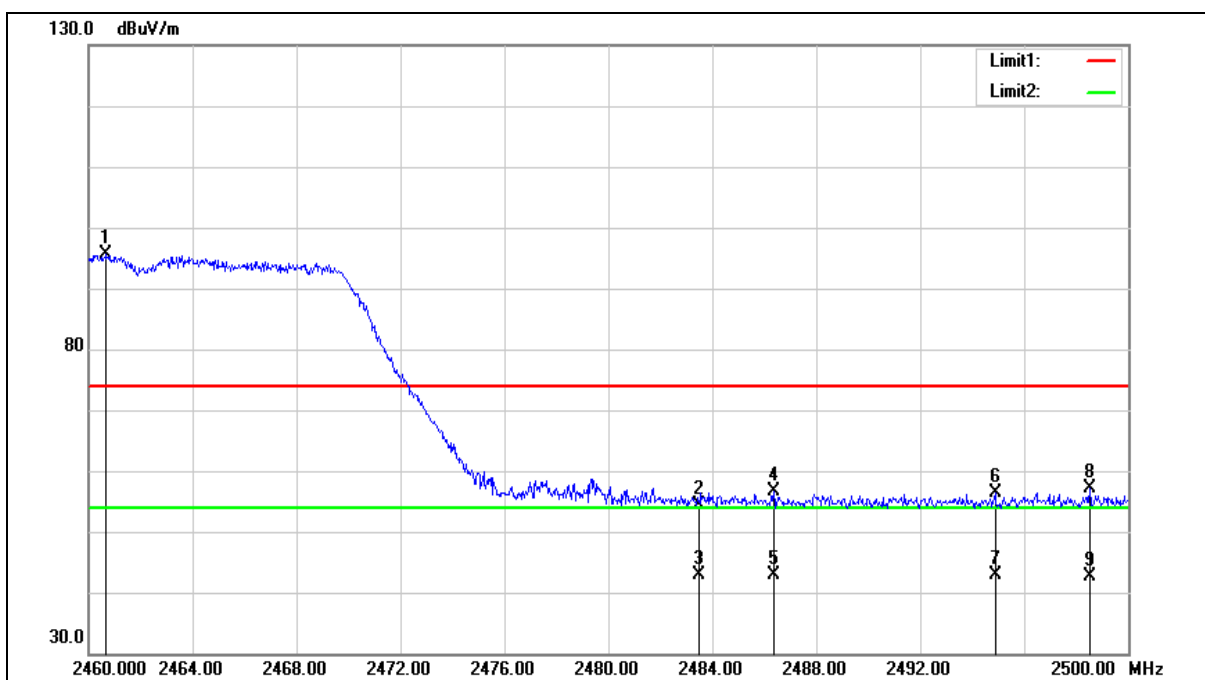
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2488.480	57.69	-0.32	57.37	74.00	-16.63	peak
11	2488.480	43.42	-0.32	43.10	54.00	-10.90	AVG
12	2489.680	57.30	-0.32	56.98	74.00	-17.02	peak
13	2489.680	43.55	-0.32	43.23	54.00	-10.77	AVG
14	2492.560	56.43	-0.30	56.13	74.00	-17.87	peak
15	2492.560	43.32	-0.30	43.02	54.00	-10.98	AVG
16	2498.720	56.96	-0.26	56.70	74.00	-17.30	peak
17	2498.720	43.36	-0.26	43.10	54.00	-10.90	AVG

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

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

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

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



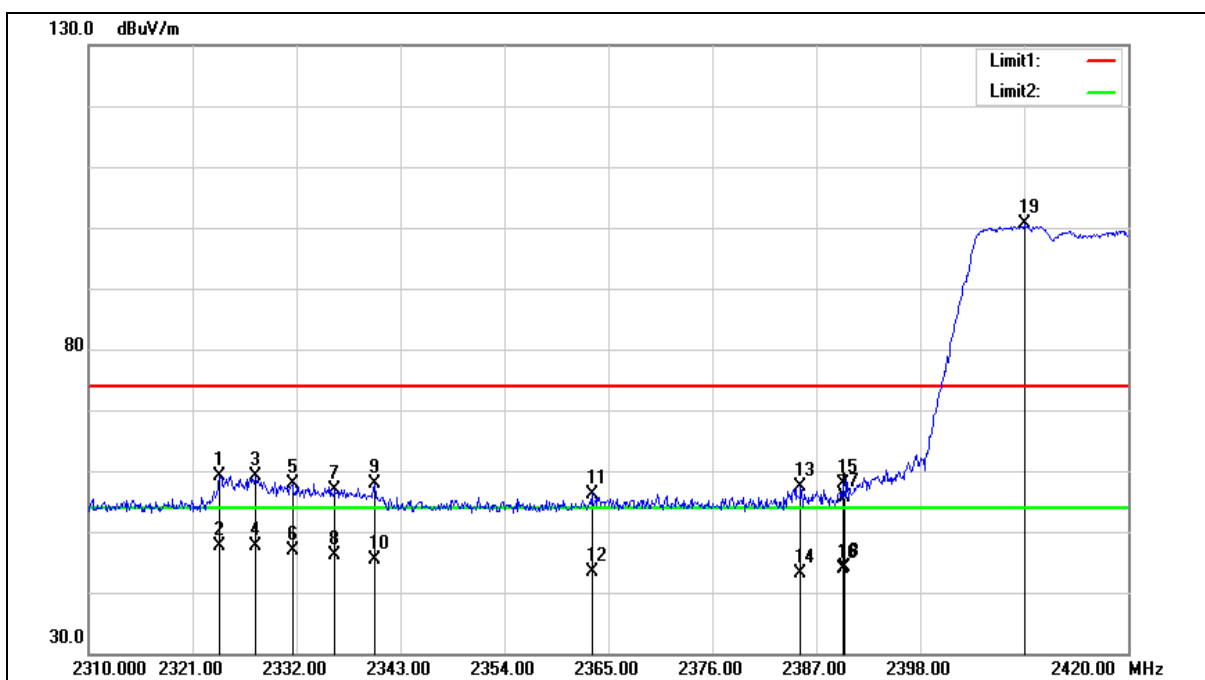
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.680	96.09	-0.46	95.63	--	--	peak
2	2483.500	54.85	-0.35	54.50	74.00	-19.50	peak
3	2483.500	43.32	-0.35	42.97	54.00	-11.03	AVG
4	2486.360	56.88	-0.33	56.55	74.00	-17.45	peak
5	2486.360	43.09	-0.33	42.76	54.00	-11.24	AVG
6	2494.880	56.77	-0.29	56.48	74.00	-17.52	peak
7	2494.880	43.20	-0.29	42.91	54.00	-11.09	AVG
8	2498.520	57.40	-0.27	57.13	74.00	-16.87	peak
9	2498.520	42.96	-0.27	42.69	54.00	-11.31	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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2323.860	60.40	-1.16	59.24	74.00	-14.76	peak
2	2323.860	48.88	-1.16	47.72	54.00	-6.28	AVG
3	2327.600	60.16	-1.14	59.02	74.00	-14.98	peak
4	2327.600	48.74	-1.14	47.60	54.00	-6.40	AVG
5	2331.560	59.06	-1.12	57.94	74.00	-16.06	peak
6	2331.560	48.10	-1.12	46.98	54.00	-7.02	AVG
7	2336.070	58.10	-1.10	57.00	74.00	-17.00	peak
8	2336.070	47.17	-1.10	46.07	54.00	-7.93	AVG
9	2340.250	58.94	-1.07	57.87	74.00	-16.13	peak

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

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

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



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

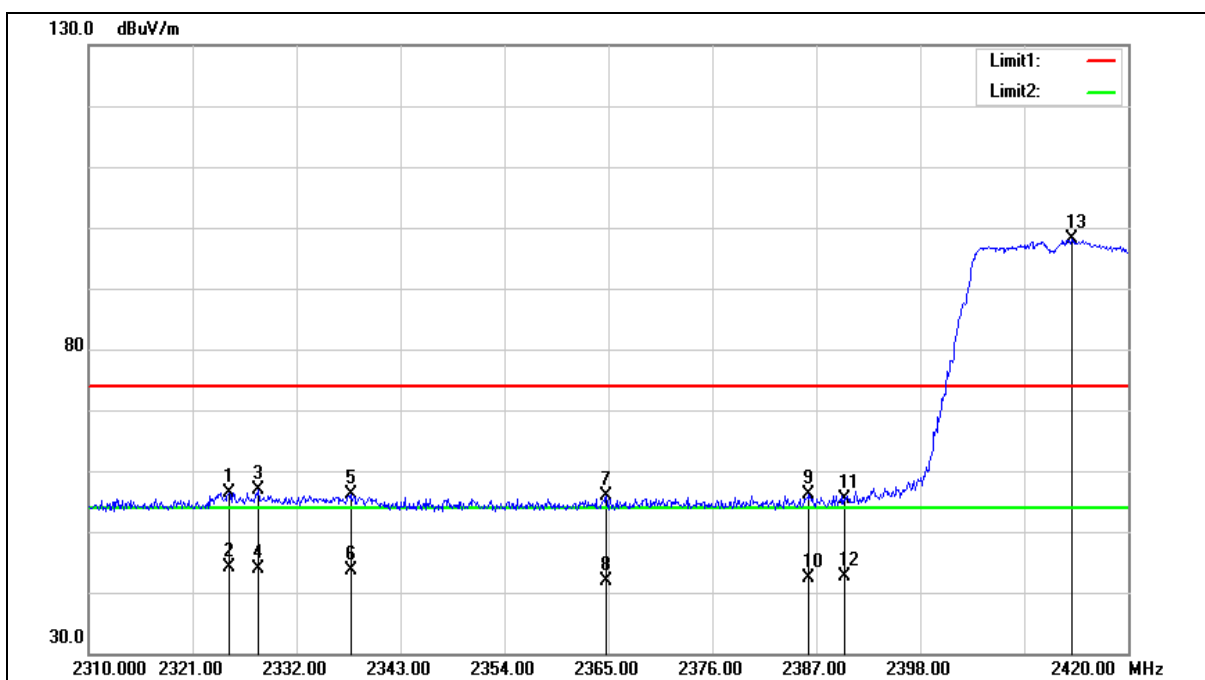
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2340.250	46.55	-1.07	45.48	54.00	-8.52	AVG
11	2363.240	57.21	-0.96	56.25	74.00	-17.75	peak
12	2363.240	44.23	-0.96	43.27	54.00	-10.73	AVG
13	2385.350	58.33	-0.85	57.48	74.00	-16.52	peak
14	2385.350	43.93	-0.85	43.08	54.00	-10.92	AVG
15	2389.860	58.62	-0.82	57.80	74.00	-16.20	peak
16	2389.860	44.77	-0.82	43.95	54.00	-10.05	AVG
17	2390.000	56.47	-0.82	55.65	74.00	-18.35	peak
18	2390.000	44.84	-0.82	44.02	54.00	-9.98	AVG
19	2409.000	101.24	-0.73	100.51	--	--	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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2324.850	57.65	-1.16	56.49	74.00	-17.51	peak
2	2324.850	45.39	-1.16	44.23	54.00	-9.77	AVG
3	2327.930	57.93	-1.14	56.79	74.00	-17.21	peak
4	2327.930	44.90	-1.14	43.76	54.00	-10.24	AVG
5	2337.720	57.26	-1.09	56.17	74.00	-17.83	peak
6	2337.720	44.62	-1.09	43.53	54.00	-10.47	AVG
7	2364.780	56.83	-0.96	55.87	74.00	-18.13	peak
8	2364.780	42.95	-0.96	41.99	54.00	-12.01	AVG
9	2386.230	57.04	-0.85	56.19	74.00	-17.81	peak

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

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

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



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

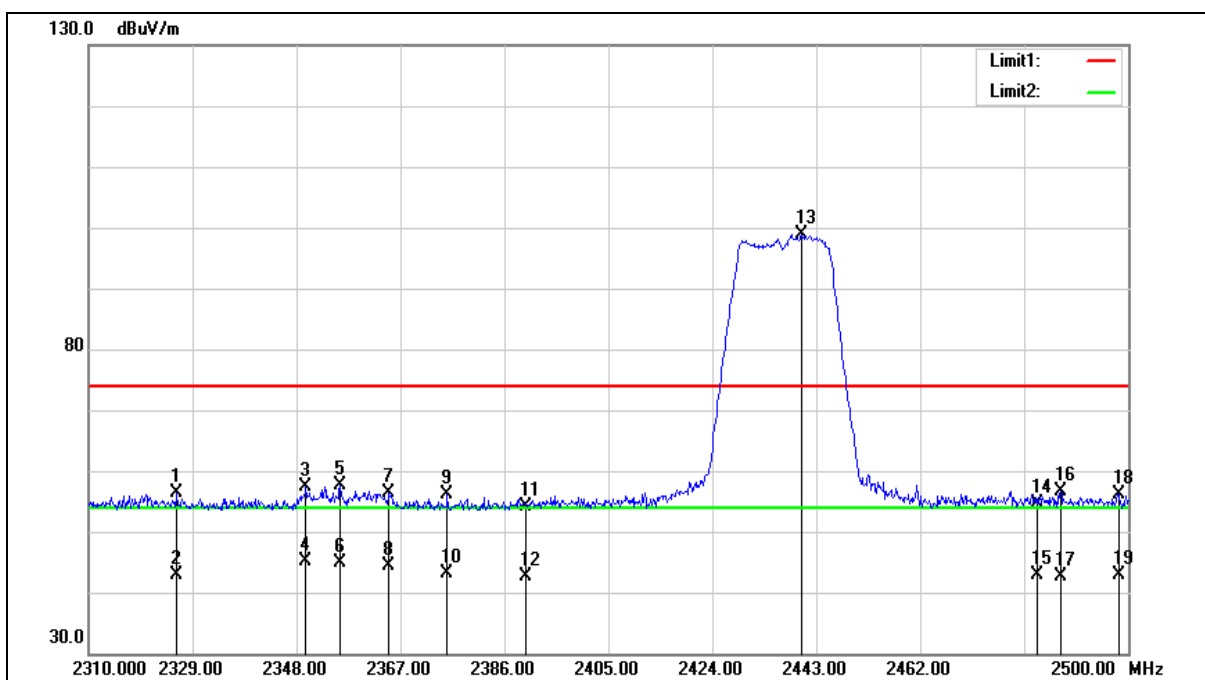
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2386.230	43.22	-0.85	42.37	54.00	-11.63	AVG
11	2390.000	56.26	-0.82	55.44	74.00	-18.56	peak
12	2390.000	43.43	-0.82	42.61	54.00	-11.39	AVG
13	2414.060	98.86	-0.70	98.16	--	--	peak

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2326.150	57.61	-1.15	56.46	74.00	-17.54	peak
2	2326.150	44.09	-1.15	42.94	54.00	-11.06	AVG
3	2349.710	58.40	-1.02	57.38	74.00	-16.62	peak
4	2349.710	46.20	-1.02	45.18	54.00	-8.82	AVG
5	2355.980	58.50	-0.99	57.51	74.00	-16.49	peak
6	2355.980	45.81	-0.99	44.82	54.00	-9.18	AVG
7	2364.910	57.45	-0.96	56.49	74.00	-17.51	peak
8	2364.910	45.27	-0.96	44.31	54.00	-9.69	AVG
9	2375.550	57.07	-0.90	56.17	74.00	-17.83	peak

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

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

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

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

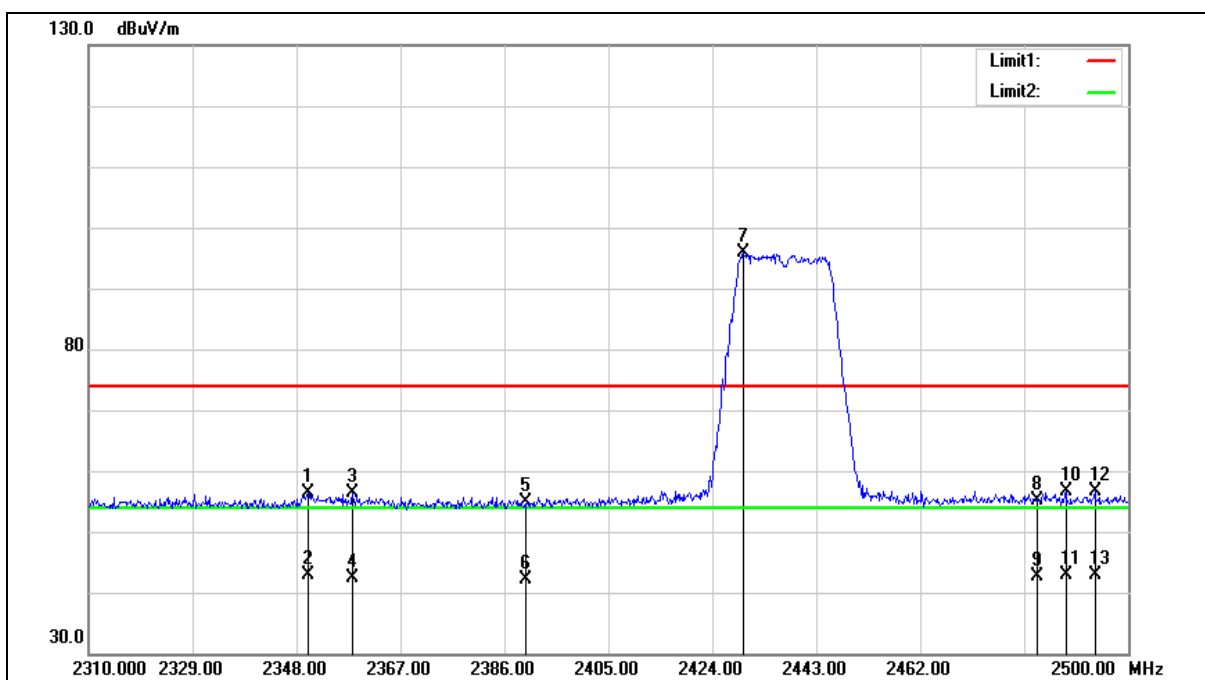
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2375.550	44.01	-0.90	43.11	54.00	-10.89	AVG
11	2390.000	54.92	-0.82	54.10	74.00	-19.90	peak
12	2390.000	43.55	-0.82	42.73	54.00	-11.27	AVG
13	2440.340	99.50	-0.57	98.93	--	--	peak
14	2483.500	55.07	-0.35	54.72	74.00	-19.28	peak
15	2483.500	43.24	-0.35	42.89	54.00	-11.11	AVG
16	2487.650	56.89	-0.32	56.57	74.00	-17.43	peak
17	2487.650	43.05	-0.32	42.73	54.00	-11.27	AVG
18	2498.290	56.30	-0.27	56.03	74.00	-17.97	peak
19	2498.290	43.09	-0.27	42.82	54.00	-11.18	AVG

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2350.090	57.34	-1.02	56.32	74.00	-17.68	peak
2	2350.090	43.89	-1.02	42.87	54.00	-11.13	AVG
3	2358.260	57.27	-0.99	56.28	74.00	-17.72	peak
4	2358.260	43.45	-0.99	42.46	54.00	-11.54	AVG
5	2390.000	55.65	-0.82	54.83	74.00	-19.17	peak
6	2390.000	42.95	-0.82	42.13	54.00	-11.87	AVG
7	2429.700	96.46	-0.62	95.84	--	--	peak
8	2483.500	55.57	-0.35	55.22	74.00	-18.78	peak
9	2483.500	42.97	-0.35	42.62	54.00	-11.38	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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

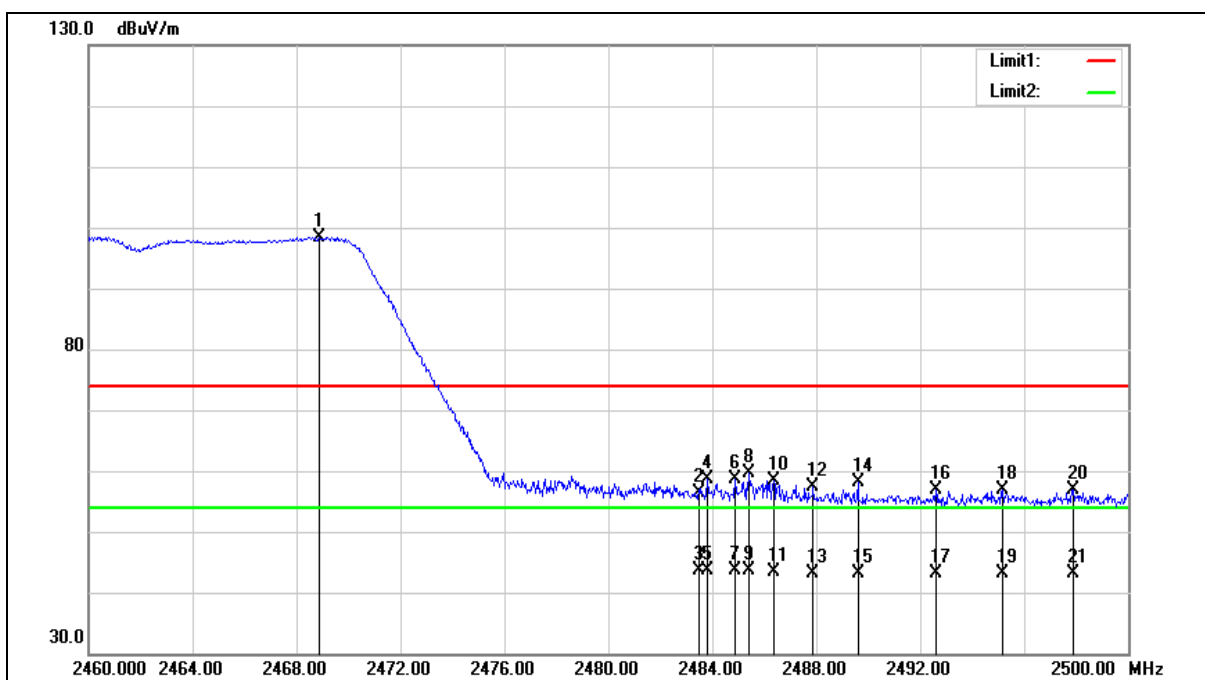
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2488.600	56.89	-0.32	56.57	74.00	-17.43	peak
11	2488.600	43.13	-0.32	42.81	54.00	-11.19	AVG
12	2493.920	56.95	-0.29	56.66	74.00	-17.34	peak
13	2493.920	43.23	-0.29	42.94	54.00	-11.06	AVG

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2468.880	98.90	-0.42	98.48	--	--	peak
2	2483.500	56.74	-0.35	56.39	74.00	-17.61	peak
3	2483.500	43.98	-0.35	43.63	54.00	-10.37	AVG
4	2483.800	59.04	-0.35	58.69	74.00	-15.31	peak
5	2483.800	43.86	-0.35	43.51	54.00	-10.49	AVG
6	2484.880	59.04	-0.34	58.70	74.00	-15.30	peak
7	2484.880	43.93	-0.34	43.59	54.00	-10.41	AVG
8	2485.400	60.08	-0.34	59.74	74.00	-14.26	peak
9	2485.400	43.93	-0.34	43.59	54.00	-10.41	AVG

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

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

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

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

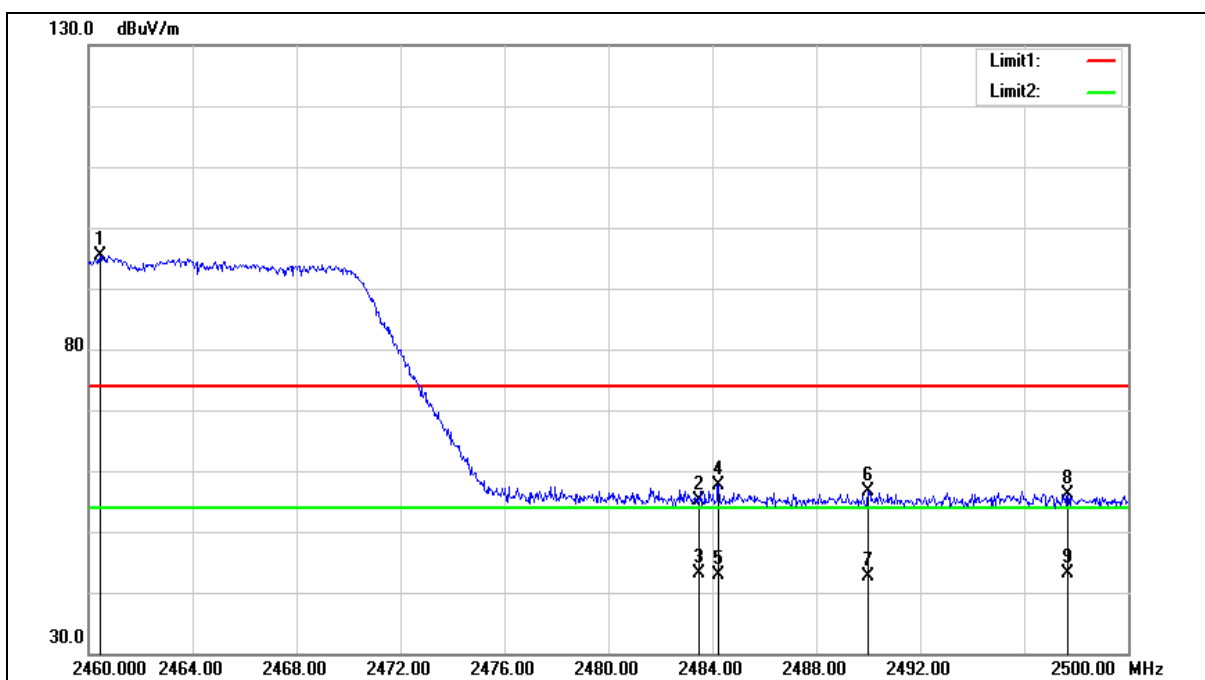
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2486.360	58.82	-0.33	58.49	74.00	-15.51	peak
11	2486.360	43.63	-0.33	43.30	54.00	-10.70	AVG
12	2487.880	57.65	-0.32	57.33	74.00	-16.67	peak
13	2487.880	43.47	-0.32	43.15	54.00	-10.85	AVG
14	2489.600	58.42	-0.32	58.10	74.00	-15.90	peak
15	2489.600	43.33	-0.32	43.01	54.00	-10.99	AVG
16	2492.600	57.07	-0.30	56.77	74.00	-17.23	peak
17	2492.600	43.31	-0.30	43.01	54.00	-10.99	AVG
18	2495.160	57.16	-0.29	56.87	74.00	-17.13	peak
19	2495.160	43.34	-0.29	43.05	54.00	-10.95	AVG
20	2497.880	57.03	-0.27	56.76	74.00	-17.24	peak
21	2497.880	43.35	-0.27	43.08	54.00	-10.92	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.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



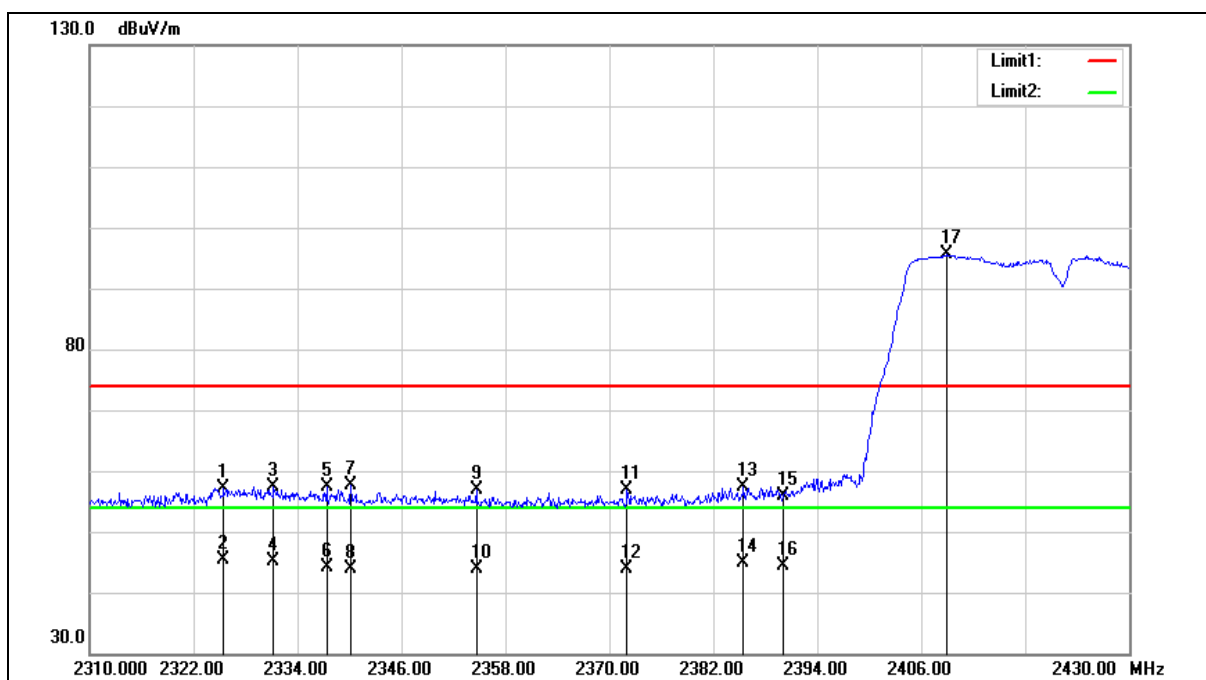
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.440	95.85	-0.46	95.39	--	--	peak
2	2483.500	55.45	-0.35	55.10	74.00	-18.90	peak
3	2483.500	43.38	-0.35	43.03	54.00	-10.97	AVG
4	2484.240	57.96	-0.34	57.62	74.00	-16.38	peak
5	2484.240	43.19	-0.34	42.85	54.00	-11.15	AVG
6	2490.000	57.05	-0.31	56.74	74.00	-17.26	peak
7	2490.000	43.04	-0.31	42.73	54.00	-11.27	AVG
8	2497.680	56.51	-0.27	56.24	74.00	-17.76	peak
9	2497.680	43.37	-0.27	43.10	54.00	-10.90	AVG

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2325.480	58.32	-1.15	57.17	74.00	-16.83	peak
2	2325.480	46.64	-1.15	45.49	54.00	-8.51	AVG
3	2331.240	58.52	-1.12	57.40	74.00	-16.60	peak
4	2331.240	46.13	-1.12	45.01	54.00	-8.99	AVG
5	2337.360	58.36	-1.09	57.27	74.00	-16.73	peak
6	2337.360	45.25	-1.09	44.16	54.00	-9.84	AVG
7	2340.120	58.60	-1.07	57.53	74.00	-16.47	peak
8	2340.120	45.05	-1.07	43.98	54.00	-10.02	AVG
9	2354.640	57.81	-1.00	56.81	74.00	-17.19	peak

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

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

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

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

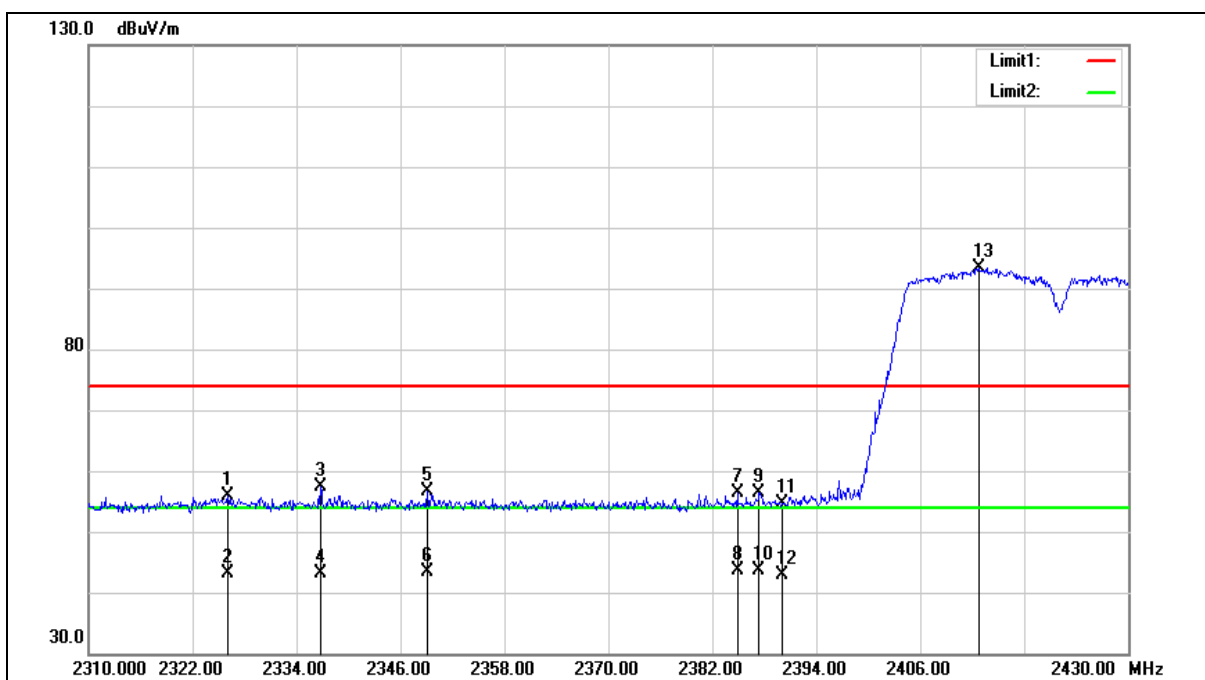
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2354.640	44.89	-1.00	43.89	54.00	-10.11	AVG
11	2372.040	57.81	-0.93	56.88	74.00	-17.12	peak
12	2372.040	44.70	-0.93	43.77	54.00	-10.23	AVG
13	2385.480	58.23	-0.85	57.38	74.00	-16.62	peak
14	2385.480	45.74	-0.85	44.89	54.00	-9.11	AVG
15	2390.000	56.58	-0.82	55.76	74.00	-18.24	peak
16	2390.000	45.28	-0.82	44.46	54.00	-9.54	AVG
17	2409.000	96.37	-0.73	95.64	--	--	peak

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2326.080	56.95	-1.15	55.80	74.00	-18.20	peak
2	2326.080	44.20	-1.15	43.05	54.00	-10.95	AVG
3	2336.760	58.41	-1.10	57.31	74.00	-16.69	peak
4	2336.760	44.31	-1.10	43.21	54.00	-10.79	AVG
5	2349.120	57.78	-1.03	56.75	74.00	-17.25	peak
6	2349.120	44.41	-1.03	43.38	54.00	-10.62	AVG
7	2384.880	57.25	-0.85	56.40	74.00	-17.60	peak
8	2384.880	44.54	-0.85	43.69	54.00	-10.31	AVG
9	2387.400	57.24	-0.84	56.40	74.00	-17.60	peak

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

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

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



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

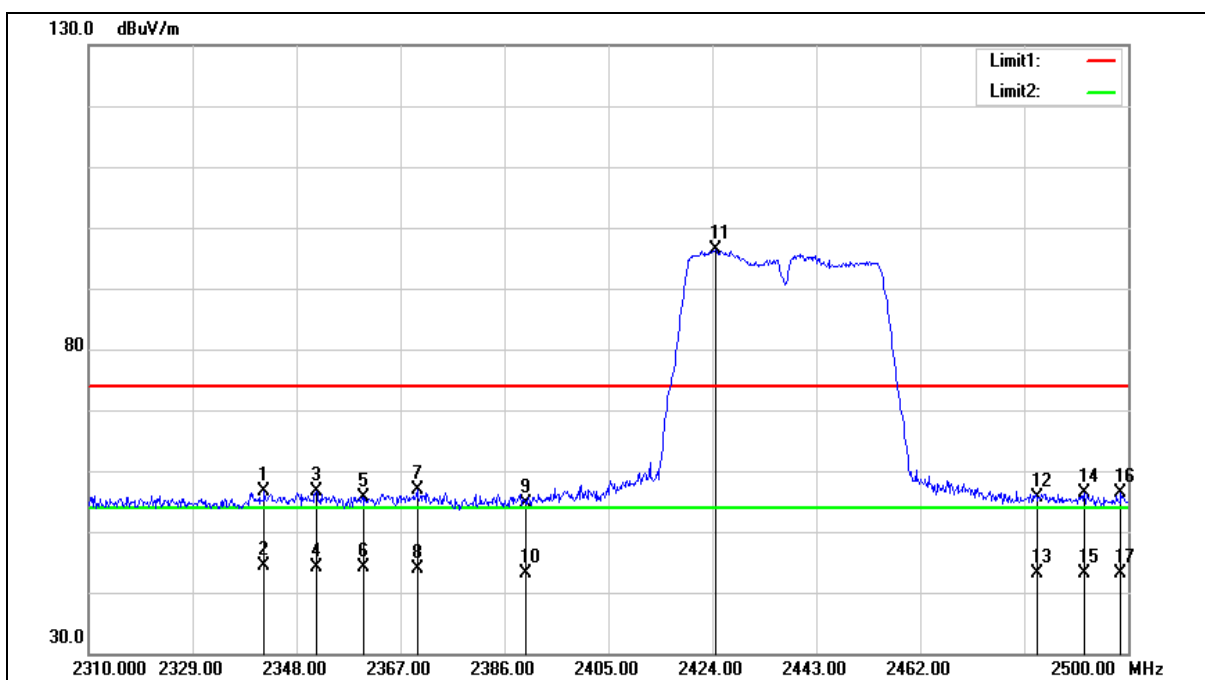
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2387.400	44.54	-0.84	43.70	54.00	-10.30	AVG
11	2390.000	55.35	-0.82	54.53	74.00	-19.47	peak
12	2390.000	43.66	-0.82	42.84	54.00	-11.16	AVG
13	2412.720	94.18	-0.71	93.47	--	--	peak

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2342.110	57.62	-1.07	56.55	74.00	-17.45	peak
2	2342.110	45.46	-1.07	44.39	54.00	-9.61	AVG
3	2351.610	57.52	-1.01	56.51	74.00	-17.49	peak
4	2351.610	45.21	-1.01	44.20	54.00	-9.80	AVG
5	2360.160	56.72	-0.99	55.73	74.00	-18.27	peak
6	2360.160	45.02	-0.99	44.03	54.00	-9.97	AVG
7	2370.040	57.85	-0.93	56.92	74.00	-17.08	peak
8	2370.040	44.69	-0.93	43.76	54.00	-10.24	AVG
9	2390.000	55.55	-0.82	54.73	74.00	-19.27	peak

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

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

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

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

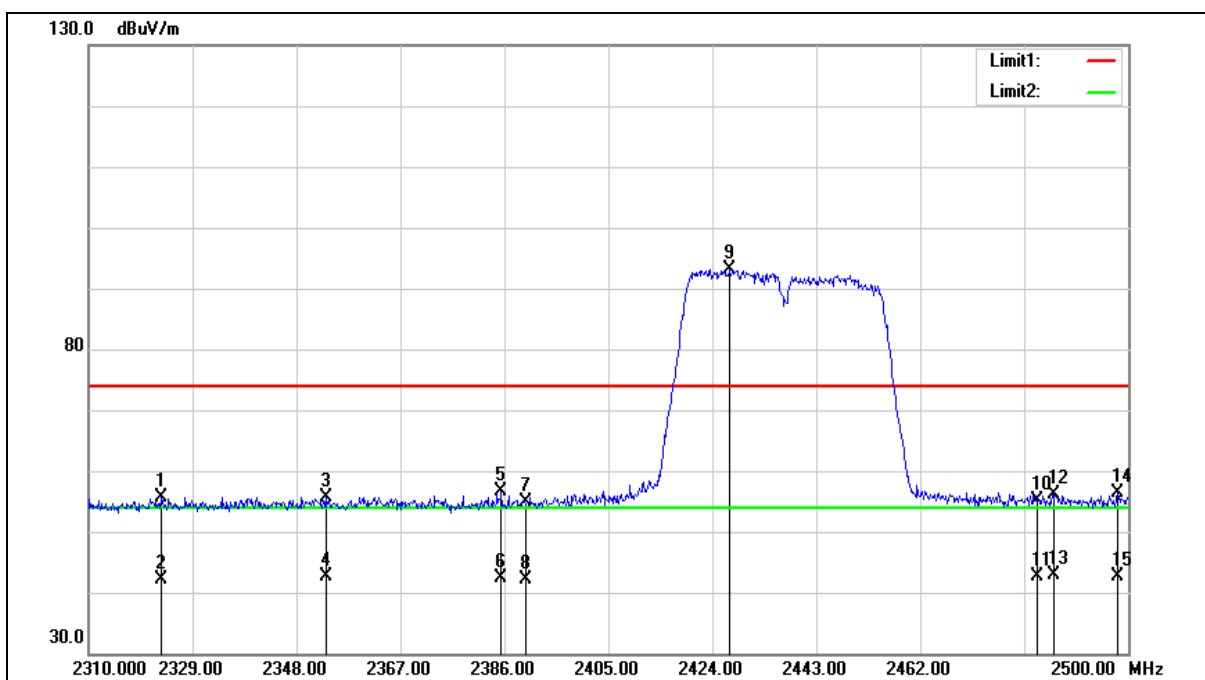
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2390.000	43.97	-0.82	43.15	54.00	-10.85	AVG
11	2424.570	97.02	-0.65	96.37	--	--	peak
12	2483.500	55.91	-0.35	55.56	74.00	-18.44	peak
13	2483.500	43.59	-0.35	43.24	54.00	-10.76	AVG
14	2492.020	56.58	-0.30	56.28	74.00	-17.72	peak
15	2492.020	43.43	-0.30	43.13	54.00	-10.87	AVG
16	2498.670	56.56	-0.26	56.30	74.00	-17.70	peak
17	2498.670	43.51	-0.26	43.25	54.00	-10.75	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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2323.300	56.86	-1.16	55.70	74.00	-18.30	peak
2	2323.300	43.40	-1.16	42.24	54.00	-11.76	AVG
3	2353.320	56.73	-1.01	55.72	74.00	-18.28	peak
4	2353.320	43.52	-1.01	42.51	54.00	-11.49	AVG
5	2385.430	57.40	-0.85	56.55	74.00	-17.45	peak
6	2385.430	43.15	-0.85	42.30	54.00	-11.70	AVG
7	2390.000	55.74	-0.82	54.92	74.00	-19.08	peak
8	2390.000	43.05	-0.82	42.23	54.00	-11.77	AVG
9	2427.230	93.70	-0.64	93.06	--	--	peak

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

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

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

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

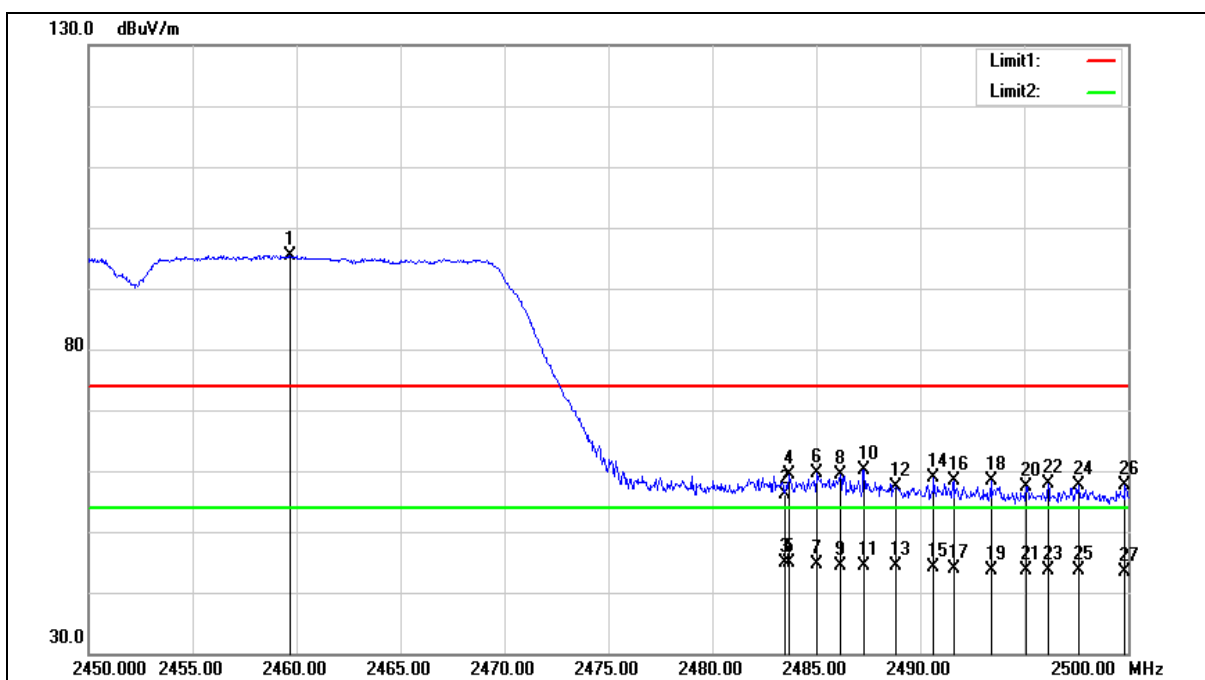
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2483.500	55.37	-0.35	55.02	74.00	-18.98	peak
11	2483.500	43.09	-0.35	42.74	54.00	-11.26	AVG
12	2486.510	56.51	-0.33	56.18	74.00	-17.82	peak
13	2486.510	43.11	-0.33	42.78	54.00	-11.22	AVG
14	2498.100	56.55	-0.27	56.28	74.00	-17.72	peak
15	2498.100	42.99	-0.27	42.72	54.00	-11.28	AVG

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.700	95.95	-0.47	95.48	--	--	peak
2	2483.500	56.60	-0.35	56.25	74.00	-17.75	peak
3	2483.500	45.13	-0.35	44.78	54.00	-9.22	AVG
4	2483.700	59.69	-0.35	59.34	74.00	-14.66	peak
5	2483.700	45.16	-0.35	44.81	54.00	-9.19	AVG
6	2485.050	59.91	-0.34	59.57	74.00	-14.43	peak
7	2485.050	44.96	-0.34	44.62	54.00	-9.38	AVG
8	2486.150	59.59	-0.33	59.26	74.00	-14.74	peak
9	2486.150	44.80	-0.33	44.47	54.00	-9.53	AVG

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

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

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

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

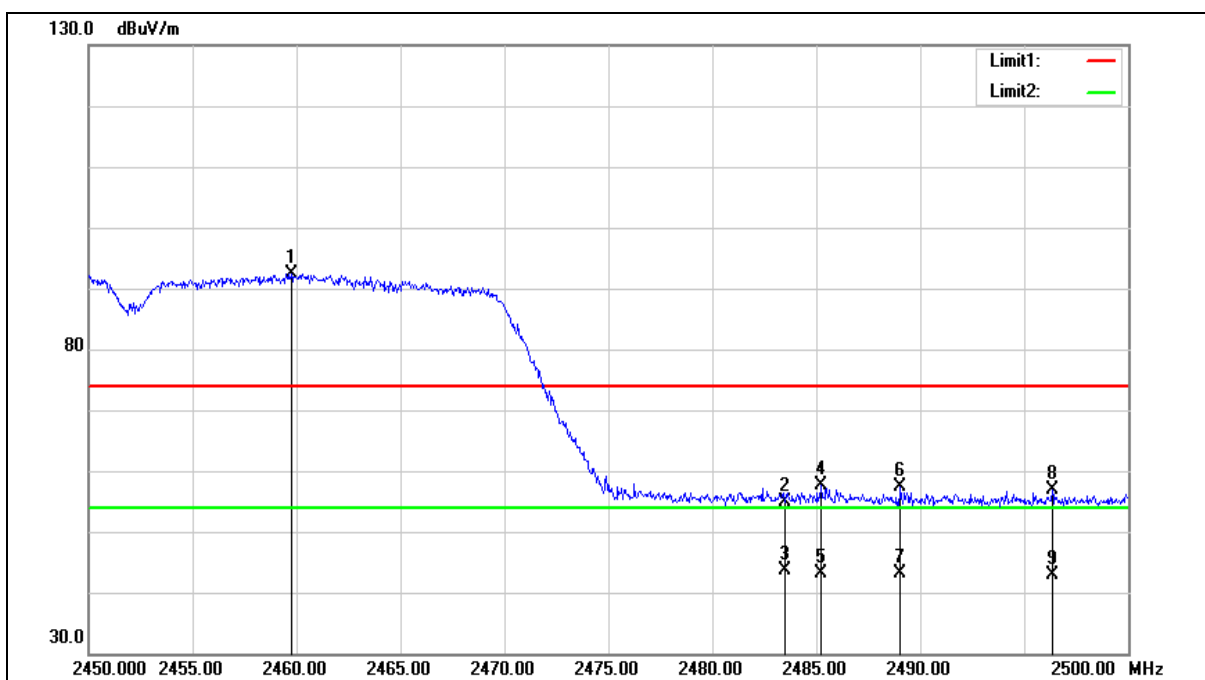
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10	2487.300	60.35	-0.32	60.03	74.00	-13.97	peak
11	2487.300	44.73	-0.32	44.41	54.00	-9.59	AVG
12	2488.800	57.63	-0.32	57.31	74.00	-16.69	peak
13	2488.800	44.68	-0.32	44.36	54.00	-9.64	AVG
14	2490.650	59.18	-0.31	58.87	74.00	-15.13	peak
15	2490.650	44.38	-0.31	44.07	54.00	-9.93	AVG
16	2491.600	58.58	-0.30	58.28	74.00	-15.72	peak
17	2491.600	44.20	-0.30	43.90	54.00	-10.10	AVG
18	2493.400	58.61	-0.29	58.32	74.00	-15.68	peak
19	2493.400	44.01	-0.29	43.72	54.00	-10.28	AVG
20	2495.100	57.67	-0.29	57.38	74.00	-16.62	peak
21	2495.100	43.89	-0.29	43.60	54.00	-10.40	AVG
22	2496.150	58.05	-0.28	57.77	74.00	-16.23	peak
23	2496.150	43.79	-0.28	43.51	54.00	-10.49	AVG
24	2497.650	57.84	-0.27	57.57	74.00	-16.43	peak
25	2497.650	43.81	-0.27	43.54	54.00	-10.46	AVG
26	2499.850	57.77	-0.26	57.51	74.00	-16.49	peak
27	2499.850	43.75	-0.26	43.49	54.00	-10.51	AVG

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

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

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

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.750	92.85	-0.47	92.38	--	--	peak
2	2483.500	55.11	-0.35	54.76	74.00	-19.24	peak
3	2483.500	44.00	-0.35	43.65	54.00	-10.35	AVG
4	2485.250	58.05	-0.34	57.71	74.00	-16.29	peak
5	2485.250	43.49	-0.34	43.15	54.00	-10.85	AVG
6	2489.050	57.61	-0.32	57.29	74.00	-16.71	peak
7	2489.050	43.36	-0.32	43.04	54.00	-10.96	AVG
8	2496.350	57.13	-0.28	56.85	74.00	-17.15	peak
9	2496.350	43.08	-0.28	42.80	54.00	-11.20	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.

--- END---