

RF Test Report

Applicant : Edimax Technology Co., Ltd.

Product Type : AC1200 Wireless LAN Dual-Band Concurrent Repeater

Trade Name : EDIMAX

Model Number : RE-7478MK1, RG113KC, Mesh 1-2-3 Plus, Mesh 1-2-3 Plus +1

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

Received Date : Jul. 03, 2019

Test Period : Nov. 13 ~ Nov. 19, 2019

Issued Date : Mar. 19, 2020

Issued by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade District,
Taoyuan City 33465, Taiwan (R.O.C.)
Tel : +86-3-2710188 / Fax : +86-3-2710190



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.
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3. The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.



Revision History

Rev.	Issued Date	Revisions	Revised By
00	Jan. 14, 2020	Initial Issue	Tobey Cheng
01	Mar. 19, 2020	Page 25 Added Maximum Conducted Output Power Measurement limit note. Page 28 Added Maximum Power Spectral Density Measurement limit note.	Tobey Cheng

Verification of Compliance

Issued Date: Mar. 19, 2020

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Product Type : AC1200 Wireless LAN Dual-Band Concurrent Repeater
Trade Name : EDIMAX
Model Number : RE-7478MK1, RG113KC, Mesh 1-2-3 Plus, Mesh 1-2-3 Plus +1
FCC ID : NDD9574781905
EUT Rated Voltage : DC 12 V, 1 A
Test Voltage : 120 Vac / 60 Hz
Applicable Standard : FCC 47 CFR PART 15 SUBPART E
ANSI C63.10:2013
Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330

<http://www.atl-lab.com.tw/e-index.htm>

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

Approved By

: Fly Lu

(Manager)

(Fly Lu)

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1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.407(b)(6) 15.207	AC Power Conducted Emission	PASS	---
15.407(b) 15.205 / 15.209	Transmitter Radiated Emissions	PASS	---
15.407(a)	Maximum Conducted Output Power	PASS	---
15.407(a)	26 dB RF Bandwidth & 99 % Occupied Bandwidth	Reference	---
15.407(e)	6 dB RF Bandwidth	PASS	----
15.407(a)	Maximum Power Spectral Density	PASS	---
15.407(c)	Automatically discontinue transmission	PASS	---
15.407(a) 15.203	Antenna Requirement	PASS	---

Standard	Description
CFR47, Part 15, Subpart C §15.247	Intentional Radiators
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 v05	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	150 kHz ~ 30 MHz	2.68
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
Frequency Stability		4.1×10^{-8}
Duty Cycle		1.06 %
Time Occupancy		1.40 %

Decision Rule

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

2 EUT Description

Applicant	Edimax Technology Co., Ltd. No.278, Xinhua 1st Rd., Neihu Dist., Taipei City, Taiwan				
Manufacturer	Edimax Technology Co., Ltd. No.278, Xinhua 1st Rd., Neihu Dist., Taipei City, Taiwan				
Product Type	AC1200 Wireless LAN Dual-Band Concurrent Repeater				
Trade Name	EDIMAX				
Model Number	RE-7478MK1, RG113KC, Mesh 1-2-3 Plus, Mesh 1-2-3 Plus +1				
Difference description of model number	Difference is due to selling region.				
FCC ID	NDD9574781905				
Operate Frequency	Frequency Band			Frequency Range (MHz)	Number of Channels
	IEEE 802.11a	U-NII Band I	5180 – 5240	3	
		U-NII Band III	5745 – 5825	3	
	IEEE 802.11n 5 GHz 20 MHz / IEEE 802.11ac 20 MHz	U-NII Band I	5180 – 5240	3	
		U-NII Band III	5745 – 5825	3	
	IEEE 802.11n 5 GHz 40 MHz / IEEE 802.11ac 40 MHz	U-NII Band I	5190 – 5230	2	
		U-NII Band III	5755 – 5795	2	
	IEEE 802.11ac 80 MHz	U-NII Band I	5210	1	
U-NII Band III		5775	1		
Modulation Type	OFDM				
Equipment Type	Client / Master				
Antenna information	Antenna	Model	Type	Max. Gain (dBi)	
	ANT-0	ALX19M-222AA5-00	PIFA Antenna	U-NII Band I	4.2
				U-NII Band III	4.2
	ANT-1	ALX19M-222AA6-00	PIFA Antenna	U-NII Band I	4.3
				U-NII Band III	4.3
Antenna Delivery	Reference section 3.1				
Operate Temp. Range	0 ~ 40 ℃				



Frequency Band		RF Output Power (W)
IEEE 802.11a	U-NII Band I	0.149
	U-NII Band III	0.150
IEEE 802.11ac 20 MHz	U-NII Band I	0.153
	U-NII Band III	0.148
IEEE 802.11ac 40 MHz	U-NII Band I	0.154
	U-NII Band III	0.152
IEEE 802.11ac 80 MHz	U-NII Band I	0.064
	U-NII Band III	0.141

Equipment Type		
Outdoor access point	point-to-point	---
	point-to-multipoint	---
Indoor access point		V
Fixed point-to-point access points		---
Client devices		---

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 802.11a Continuous TX mode
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode

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

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

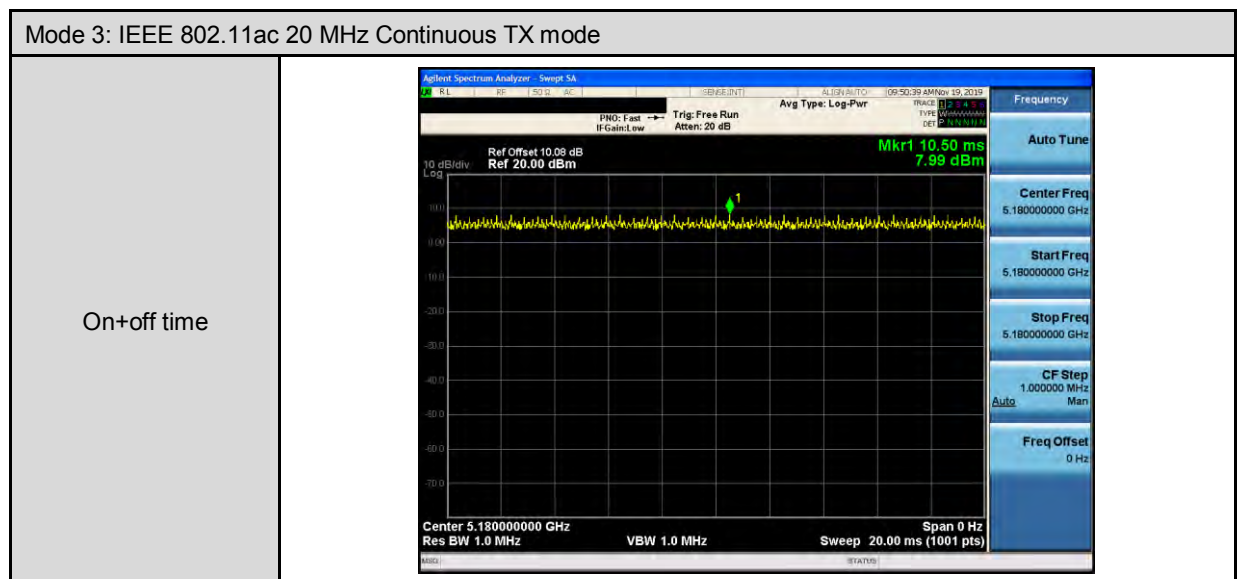
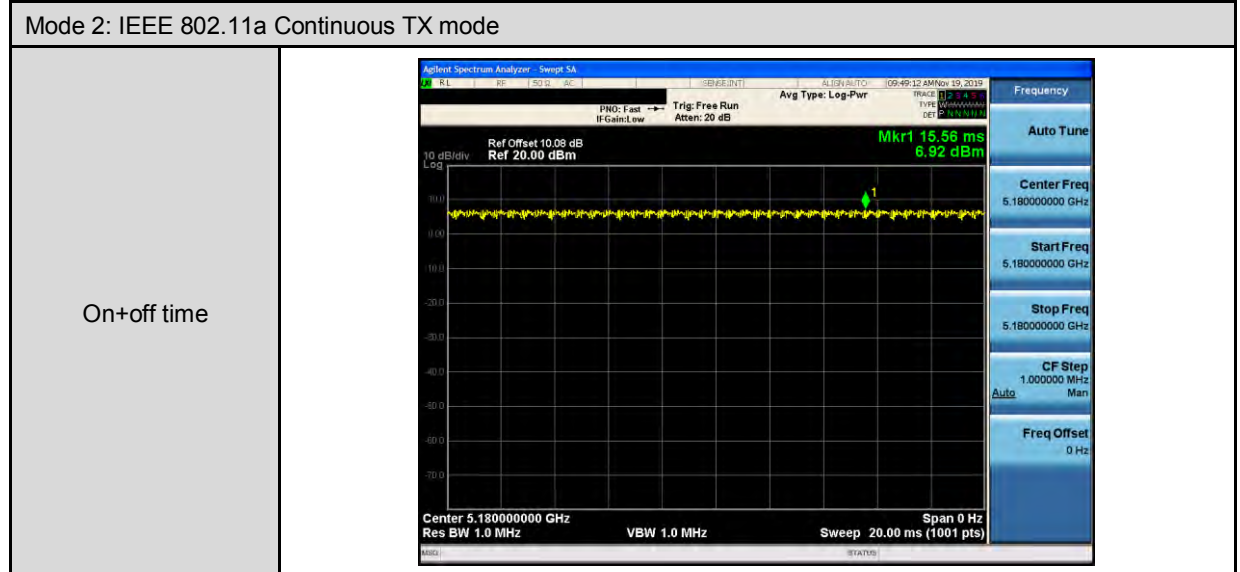
Test Mode	ANT-0	ANT-1	ANT-0+1
Mode 2	V	V	V
Mode 3	V	V	V
Mode 4	V	V	V
Mode 5	V	V	V

Test Mode	Antenna Delivery	Data Rate (Mbps)	Band	Test Channel
Mode 2	2TX (CDD)	6	U-NII Band I	36, 40, 48
			U-NII Band III	149, 157, 165
Mode 3	2TX (MIMO)	13	U-NII Band I	36, 40, 48
			U-NII Band III	149, 157, 165
Mode 4	2TX (MIMO)	27	U-NII Band I	38, 46
			U-NII Band III	151, 159
Mode 5	2TX (MIMO)	58.6	U-NII Band I	42
			U-NII Band III	155

Duty cycle

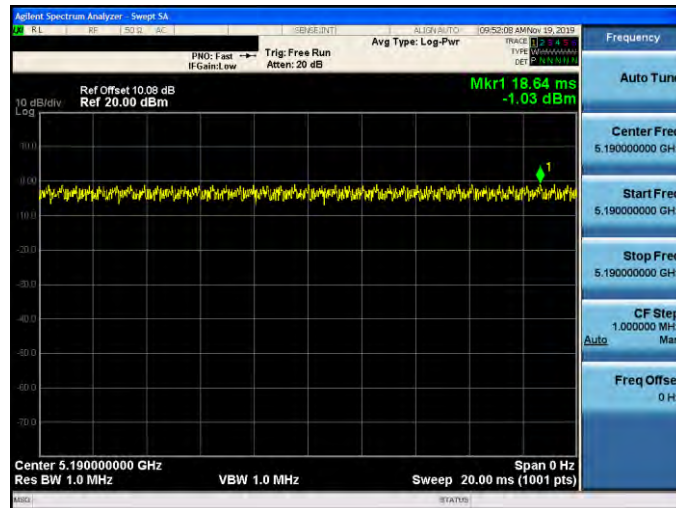
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2	5180.0	15.560	15.560	1.000	0.000	0.010
Mode 3	5180.0	10.500	10.500	1.000	0.000	0.010
Mode 4	5190.0	18.640	18.640	1.000	0.000	0.010
Mode 5	5210.0	17.260	17.260	1.000	0.000	0.010

Duty Cycle Graphs



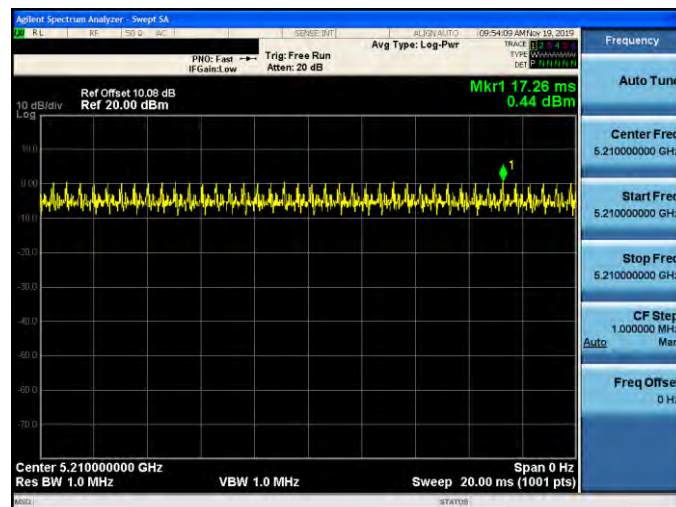
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode

On+off time



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode

On+off time



3.2. EUT Test Step

The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement.

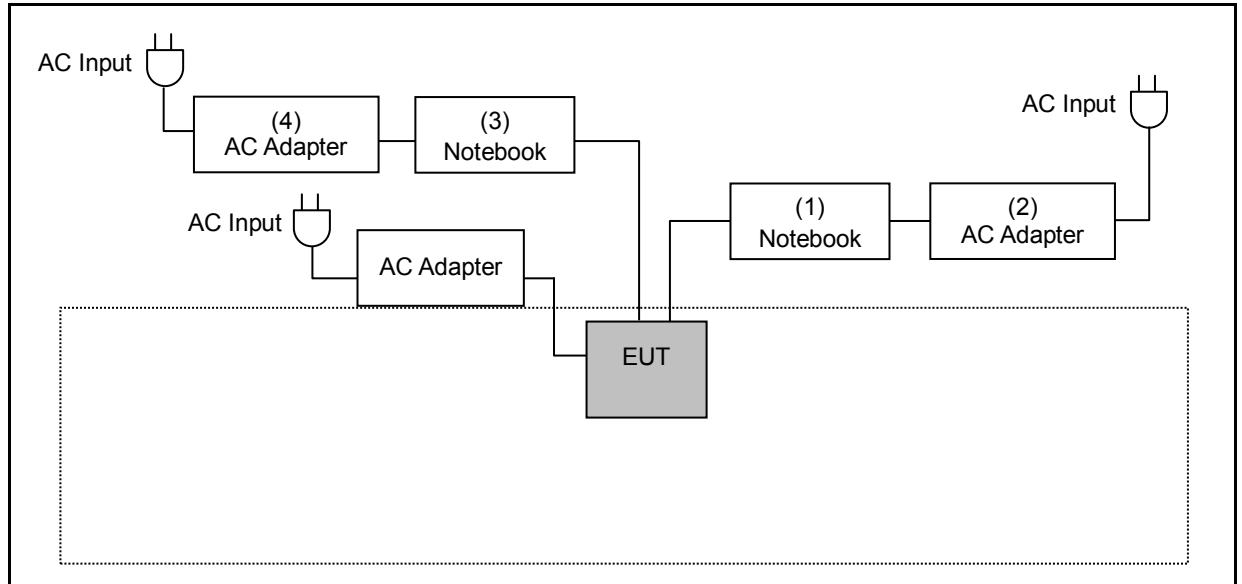
According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

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.

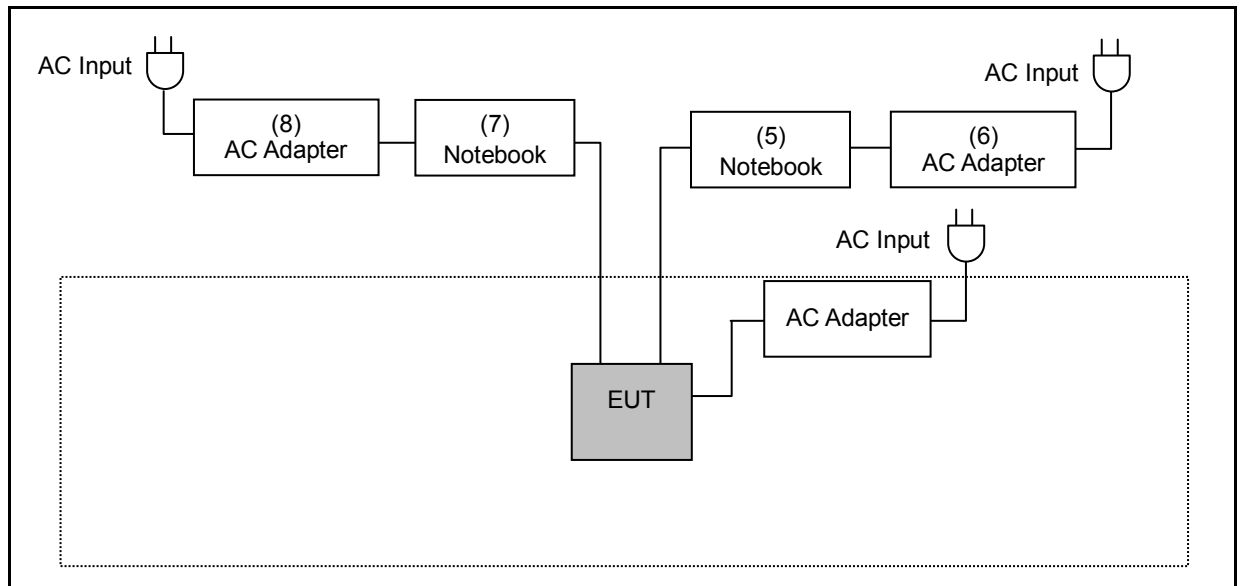
Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

3.3. Configuration of Test System Details

Conducted Emissions



Radiated Emission



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	ASUS	BU400A	D1NXAS148534020	---
(2)	AC Adapter	ASUS	EXA1203YH	---	Non-Shielded, 0.8 m
(3)	Notebook	ASUS	P2430U	GANXCV04H86940A	---
(4)	AC Adapter	ASUS	ADP-65GD B	---	Non-Shielded, 0.8 m
(5)	Notebook	HP	PROBOOK 4421s	CNF1182X1G	---
(6)	AC Adapter	HP	Series PPP012H-S	---	Non-Shielded, 1.7 m
(7)	Notebook	DELL	LATITUDE E5440	BRTQXY1	---
(8)	AC Adapter	DELL	HA65NM130	---	Non-Shielded, 0.8 m



3.4. Test Instruments

For Conducted Emission

Test Period: Nov. 19, 2019

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	05/17/2019	1 year

For Radiated Emissions

Test Period: Nov. 13 ~ Nov. 15, 2019

Testing Engineer: Ricky Liu

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	01/14/2019	1 year
Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02237	10/18/2019	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	01/14/2019	1 year
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-13000	170814	10/29/2019	1 year
Microwave Cable	EMCI	EMC102-KM -KM-14000	151001	02/20/2019	1 year

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



For Conducted

Test Period: Nov. 18 ~ Nov. 19, 2019

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	23-26
Humidity (%RH)	25-75	55-60
Barometric pressure (mbar)	860-1060	990

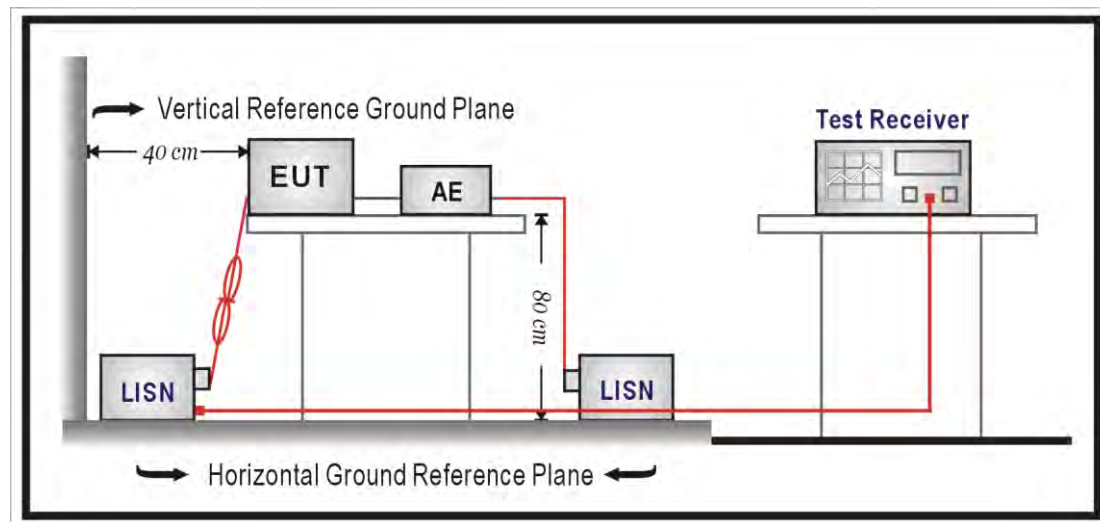
4 Measurement Procedure

4.1. AC Power 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. Transmitter Radiated Emissions Measurement

■ Limit

(1)Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(a)For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(b)For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(c)For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(d)For transmitters operating in the 5.725-5.85 GHz band:

(i)All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2)Limits of Radiated Emission Measurement

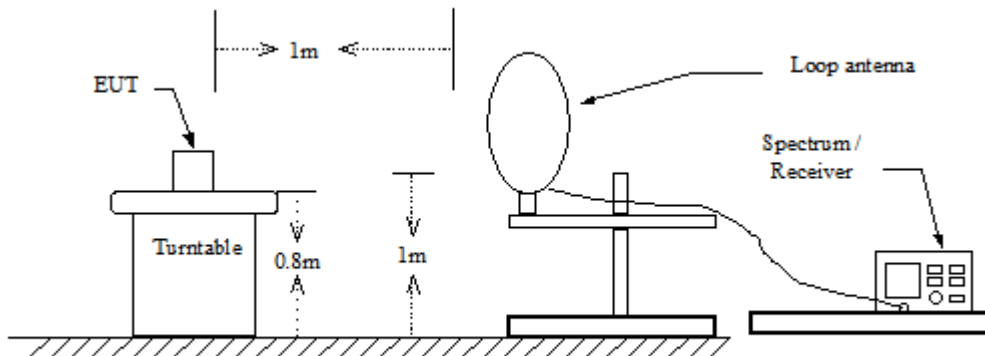
Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency Range (MHz)	Field Strength (microvolts/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	10	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

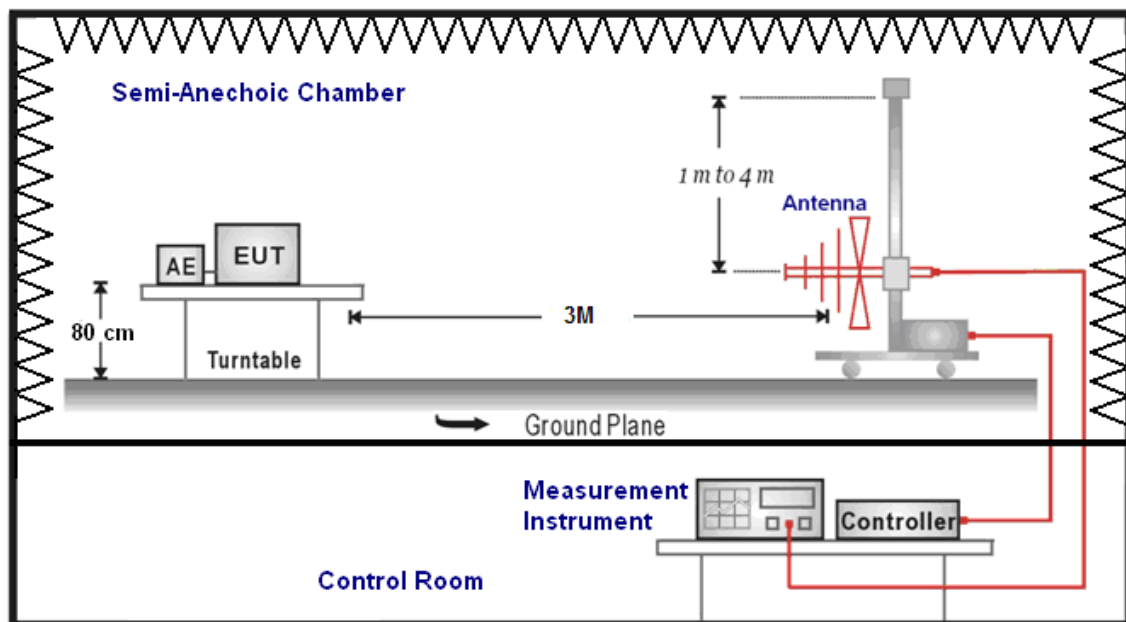
Note: 1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

■ Setup

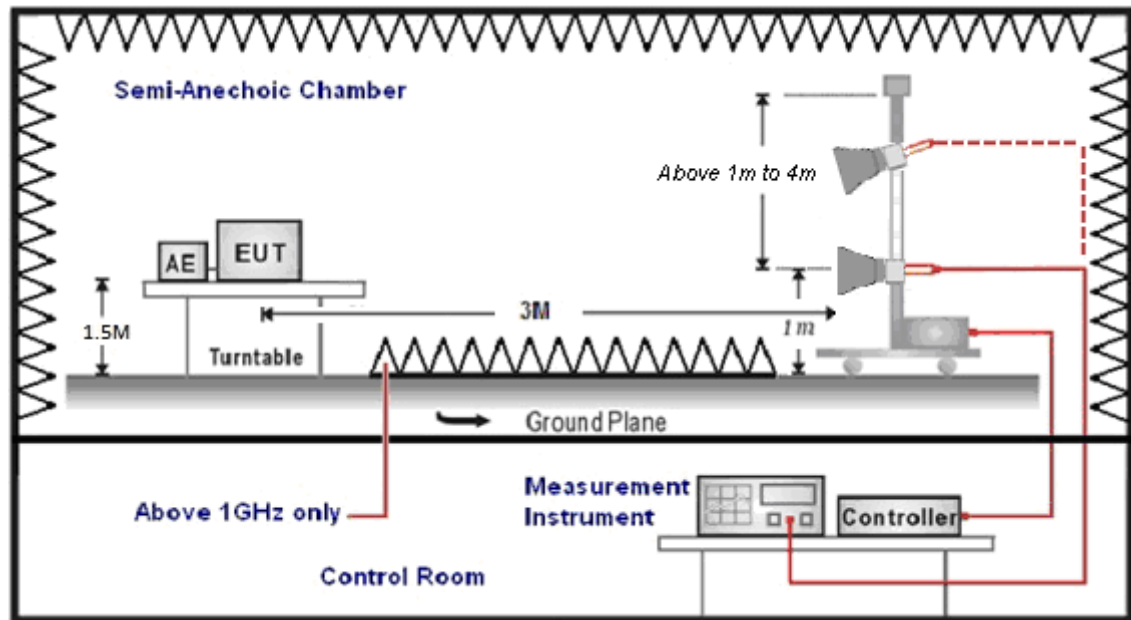
9 kHz ~ 30 MHz



30 MHz ~ 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 (below 1 GHz use 0.8 m turntable / above 1 GHz use 1.5 m turntable), 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 40 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 restricted 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.

For out of band 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.

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 Trilog-Broadband Antenna at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antenna Schwarzbeck Mess-Elektronik Broadband Horn Antenna was used in frequencies 1 – 40 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 per 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) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)

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

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

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

Measuring Instruments and setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW/VBW(Emission in restricted band)	1 MHz / 3 MHz for Peak 1 MHz / (1/T) for Average
RBW/VBW(Emission in non-restricted band)	1 MHz / 3 MHz for Peak

4.3. Maximum Conducted Output Power Measurement

■ Limit

Frequency Range (MHz)	FCC Maximum Conducted Output Power Limit	
	Client	Master
5.150 ~ 5.250 GHz	The lesser of 250 mW (24 dBm)	The lesser of 1 W (30 dBm)
5.725 ~ 5.850 GHz	The lesser of 1 W (30 dBm)	The lesser of 1 W (30 dBm)
Note : 5150 ~ 5250 MHz use the strictest limit (Client).		

According FCC KDB 662911 D01 v02r01 – for power measurements on IEEE802.11 devices,

IEEE 802.11a

CDD mode:

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

IEEE 802.11ac 20 MHz / IEEE 802.11ac 40 MHz / IEEE 802.11ac 80 MHz

MIMO mode:

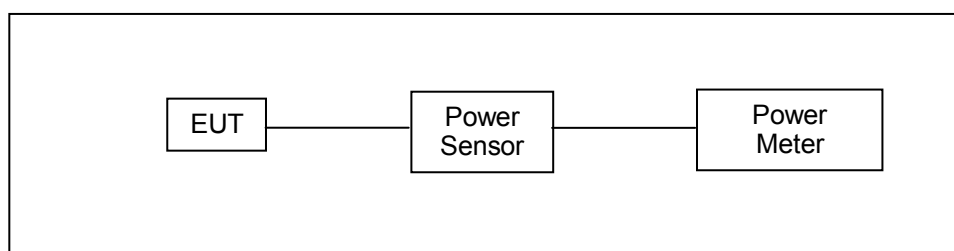
* Directional Gain = $10 \cdot \log\left[\frac{10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20}}{2}\right]^2 / NANT = 7.26 \text{ dBi} > 6 \text{ dBi}$

* Power Limit = $24 - 1.26 = 22.74 \text{ dBm}$ (5.150 ~ 5.250 GHz)

* Directional Gain = $10 \cdot \log\left[\frac{10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20}}{2}\right]^2 / NANT = 7.26 \text{ dBi} > 6 \text{ dBi}$

* Power Limit = $30 - 1.26 = 28.74 \text{ dBm}$ (5.725 ~ 5.850 GHz)

■ Test Setup



■ Test Procedure

The test is performed in accordance with ANSI C63.10:2013 section 12.3.3.2, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices

Section (E) Maximum Conducted Output Power

3. Measurement using a Power Meter (PM)

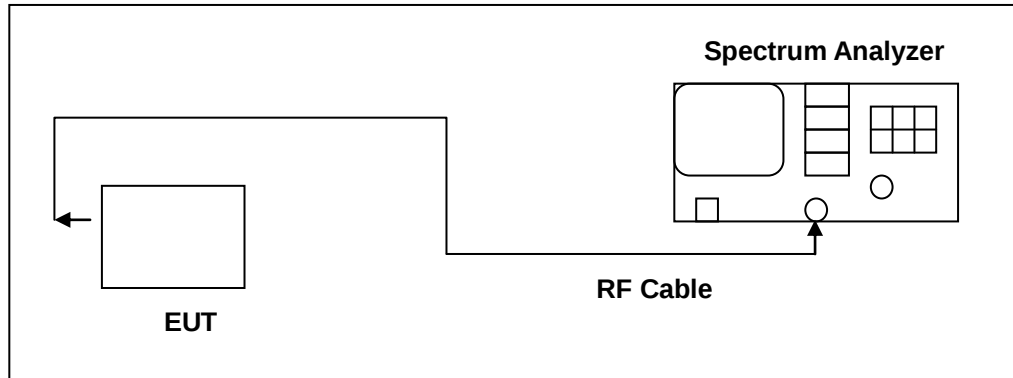
b) Method PM-G (Measurement using a gated RF average power meter)

4.4. 26 dB RF Bandwidth Measurement & 99 % Occupied Bandwidth Measurement

■ **Limit**

N/A

■ **Test Setup**



■ **Test Procedure**

The test is performed in accordance with ANSI C63.10:2013 section 12.4, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	>26 dB Bandwidth
RBW	Approximately 1 % of the emission bandwidth
VBW	VBW > RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

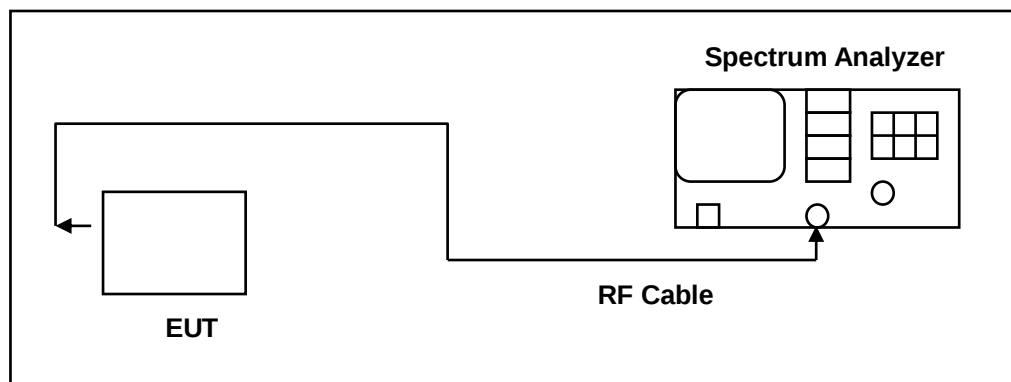
4.5. 6 dB RF Bandwidth Measurement

■ Limit

6 dB RF Bandwidth

Systems using digital modulation techniques may operate in the 5725~5850 MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

■ Test Setup



■ Test Procedure

6 dB RF Bandwidth

The EUT tested to UNII test procedure of ANSI C63.10:2013 section 6.9.2 for compliance to FCC 47CFR 15.407 requirements.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW 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.

4.6. Maximum Power Spectral Density Measurement

■ Limit

Frequency Range (MHz)	FCC Limit	
	Client	Master
5.150 ~ 5.250 GHz	11 dBm/MHz	17 dBm/MHz
5.725 ~ 5.850 GHz	---	30 dBm/500 kHz
Note : 5150 ~ 5250 MHz use the strictest limit (Client).		

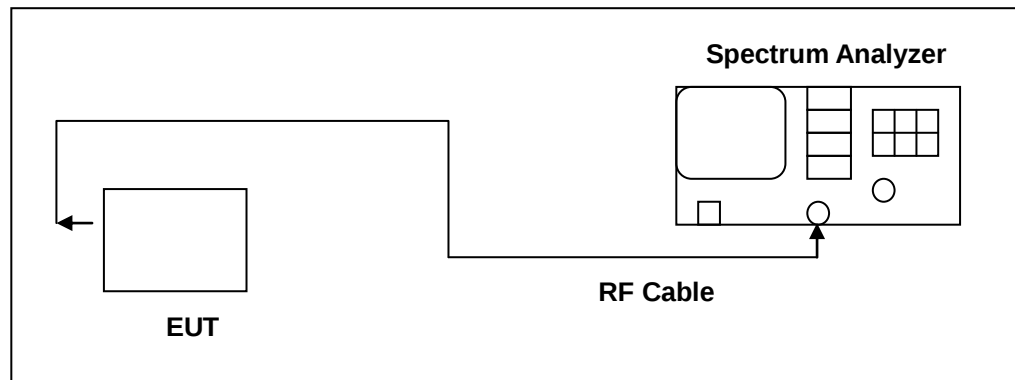
According FCC KDB 662911 D01 v02r01 – for power spectral density measurements on IEEE802.11 devices,

IEEE 802.11a / IEEE 802.11ac 20 MHz / IEEE 802.11ac 40 MHz / IEEE 802.11ac 80 MHz

CDD / MIMO mode:

- * Directional Gain = $10 \cdot \log\{[10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20}]^2 / NANT\} = 7.26 \text{ dBi} > 6 \text{ dBi}$
- * Conducted Power Spectral Density Limit = $11 - 1.26 = 9.74 \text{ dBm/MHz}$ (5.150 ~ 5.250 GHz)
- * Directional Gain = $10 \cdot \log\{[10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20}]^2 / NANT\} = 7.26 \text{ dBi} > 6 \text{ dBi}$
- * Conducted Power Spectral Density Limit = $30 - 1.26 = 28.74 \text{ dBm/500 kHz}$

■ Test Setup





■ **Test Procedure**

The test is performed in accordance with ANSI C63.10:2013 section 12.5, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz (5725 ~ 5850 MHz use 100 kHz)
VBW	3 MHz (5725 ~ 5850 MHz use 300 kHz)
Detector	RMS
Trace	AVERAGE
Sweep Time	Auto
Trace Average	100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500 \text{ kHz}/100 \text{ kHz})$ to the measured result.	

4.7. Automatically discontinue transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

■ Declare

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

4.8. Antenna Requirement

■ 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 15.407 (a), 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 Connector Construction

See section 2 – antenna information.

■ **Directional Gain Calculated**

For Maximum Conducted Output Power

Operate Freq. Band		Directional Gain (dBi)
IEEE 802.11a	U-NII Band I	4.25
	U-NII Band III	4.25
IEEE 802.11ac 20 MHz	U-NII Band I	7.26
	U-NII Band III	7.26
IEEE 802.11ac 40 MHz	U-NII Band I	7.26
	U-NII Band III	7.26
IEEE 802.11ac 80 MHz	U-NII Band I	7.26
	U-NII Band III	7.26

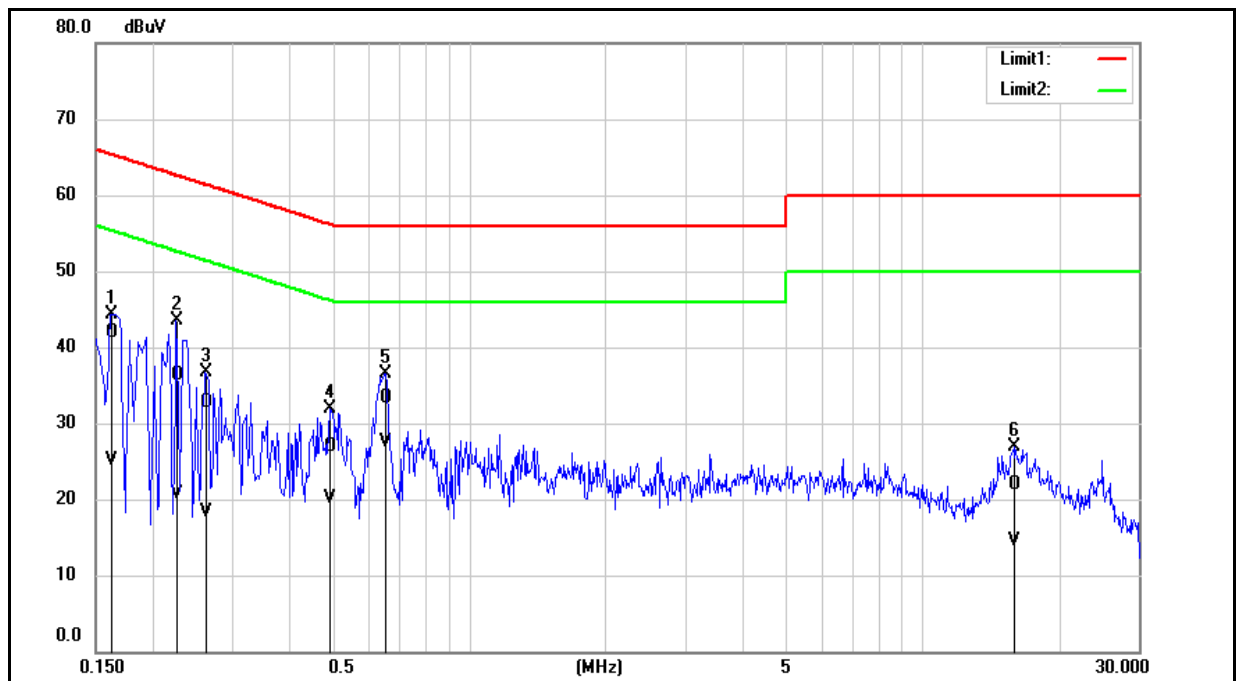
For Maximum Power Density

Operate Freq. Band		Directional Gain (dBi)
IEEE 802.11a	U-NII Band I	7.26
	U-NII Band III	7.26
IEEE 802.11ac 20 MHz	U-NII Band I	7.26
	U-NII Band III	7.26
IEEE 802.11ac 40 MHz	U-NII Band I	7.26
	U-NII Band III	7.26
IEEE 802.11ac 80 MHz	U-NII Band I	7.26
	U-NII Band III	7.26

5 Test Results

Annex A. Conducted Emission

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			

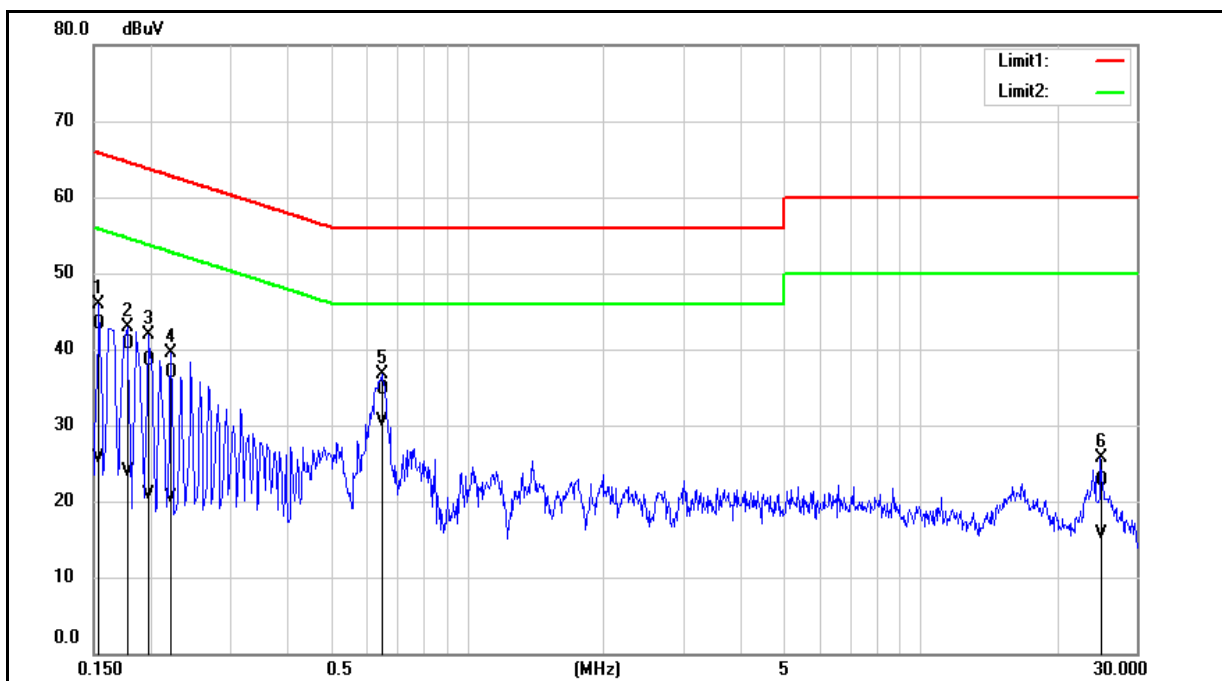


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1620	32.25	15.52	9.65	41.90	25.17	65.36	55.36	-23.46	-30.19	Pass
2	0.2260	26.73	11.15	9.64	36.37	20.79	62.60	52.60	-26.23	-31.81	Pass
3	0.2620	22.98	8.68	9.64	32.62	18.32	61.37	51.37	-28.75	-33.05	Pass
4	0.4940	17.22	10.45	9.66	26.88	20.11	56.10	46.10	-29.22	-25.99	Pass
5	0.6540	23.63	17.90	9.66	33.29	27.56	56.00	46.00	-22.71	-18.44	Pass
6	15.9140	11.90	4.58	9.99	21.89	14.57	60.00	50.00	-38.11	-35.43	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 15.407	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	0.1540	33.58	16.08	9.68	43.26	25.76	65.78	55.78	-22.52	-30.02	Pass
2	0.1780	31.08	14.26	9.67	40.75	23.93	64.58	54.58	-23.83	-30.65	Pass
3	0.1980	28.89	11.16	9.67	38.56	20.83	63.69	53.69	-25.13	-32.86	Pass
4	0.2220	27.22	10.92	9.67	36.89	20.59	62.74	52.74	-25.85	-32.15	Pass
5	0.6500	24.98	20.84	9.69	34.67	30.53	56.00	46.00	-21.33	-15.47	Pass
6	25.0020	12.53	5.39	10.24	22.77	15.63	60.00	50.00	-37.23	-34.37	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. Radiated Emission Measurement

Below 1 GHz

Standard:		FCC Part 15.407		Test Distance:		3 m	
Test item:		Radiated Emission		Power:		AC 120 V/60 Hz	
Frequency:		5180 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
91.1100	45.84	-12.07	33.77	43.50	-9.73	QP	H
105.6600	42.77	-10.17	32.60	43.50	-10.90	QP	H
128.9400	41.59	-7.69	33.90	43.50	-9.60	QP	H
143.4900	40.92	-6.29	34.63	43.50	-8.87	QP	H
314.2100	29.68	-3.77	25.91	46.00	-20.09	QP	H
602.3000	29.26	2.31	31.57	46.00	-14.43	QP	H
37.7600	39.51	-7.11	32.40	40.00	-7.60	QP	V
99.8400	43.29	-10.89	32.40	43.50	-11.10	QP	V
114.3900	43.93	-9.20	34.73	43.50	-8.77	QP	V
139.6100	40.22	-6.58	33.64	43.50	-9.86	QP	V
159.9800	34.97	-5.70	29.27	43.50	-14.23	QP	V
633.3400	30.68	2.64	33.32	46.00	-12.68	QP	V

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

Example: $33.77 = -12.07 + 45.84$

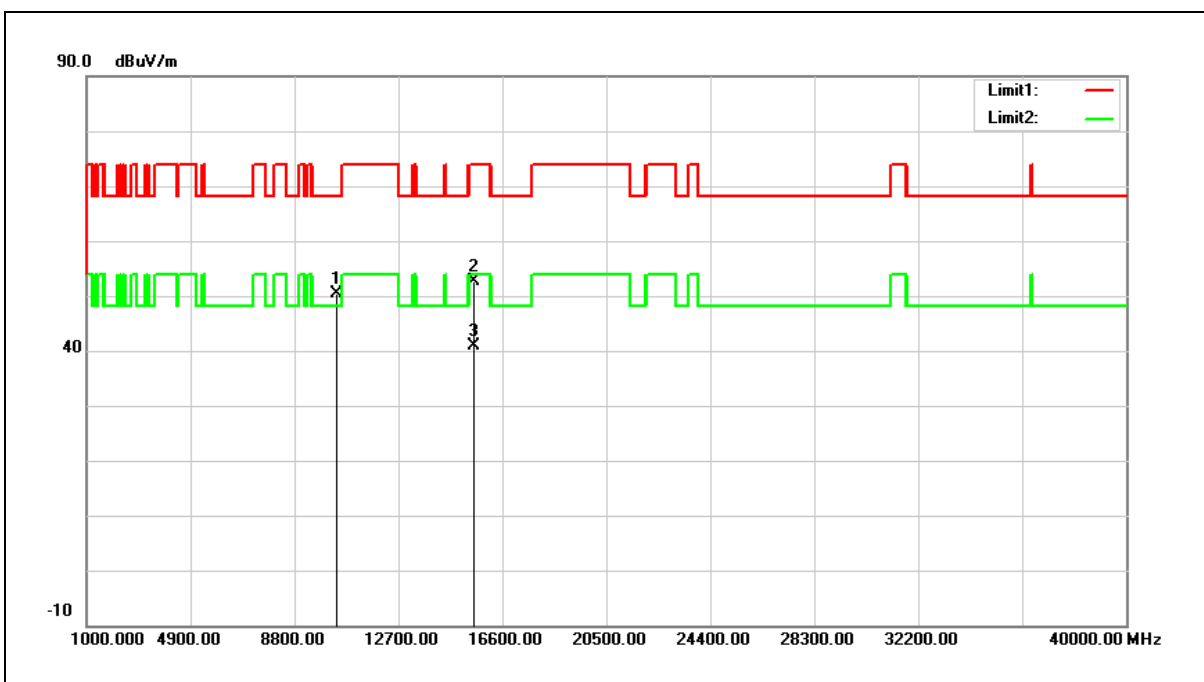
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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

Harmonic

Above 1 GHz

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5180 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	10360.000	33.09	17.33	50.42	68.20	-17.78	peak
2	15540.000	31.71	20.84	52.55	74.00	-21.45	peak
3	15540.000	19.98	20.84	40.82	54.00	-13.18	AVG

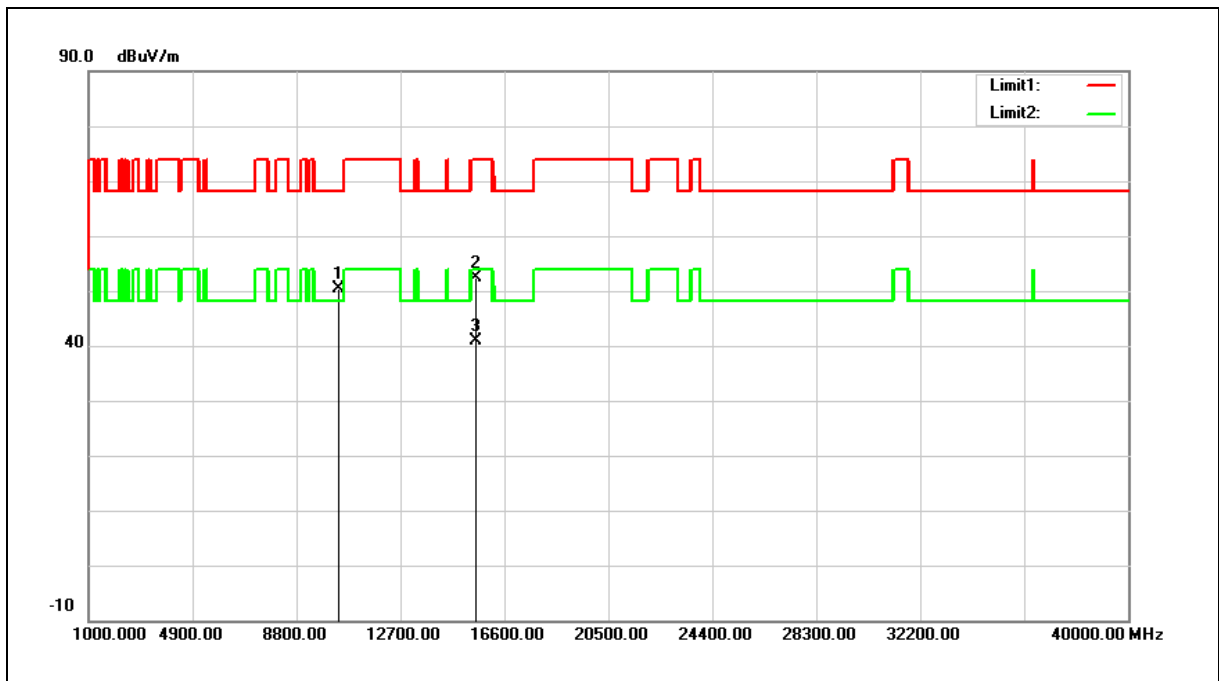
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 50.42 = 17.33 + 33.09

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5180 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	10360.000	33.12	17.33	50.45	68.20	-17.75	peak
2	15540.000	31.63	20.84	52.47	74.00	-21.53	peak
3	15540.000	20.07	20.84	40.91	54.00	-13.09	AVG

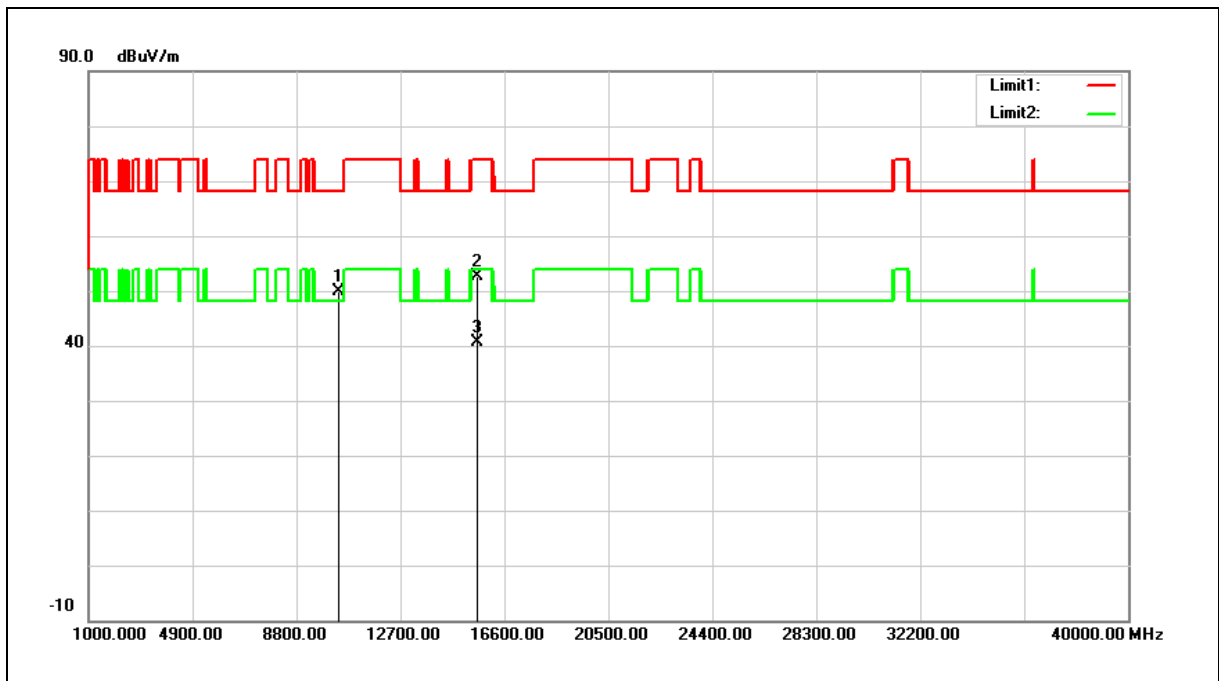
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 50.45 = 17.33 + 33.12

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



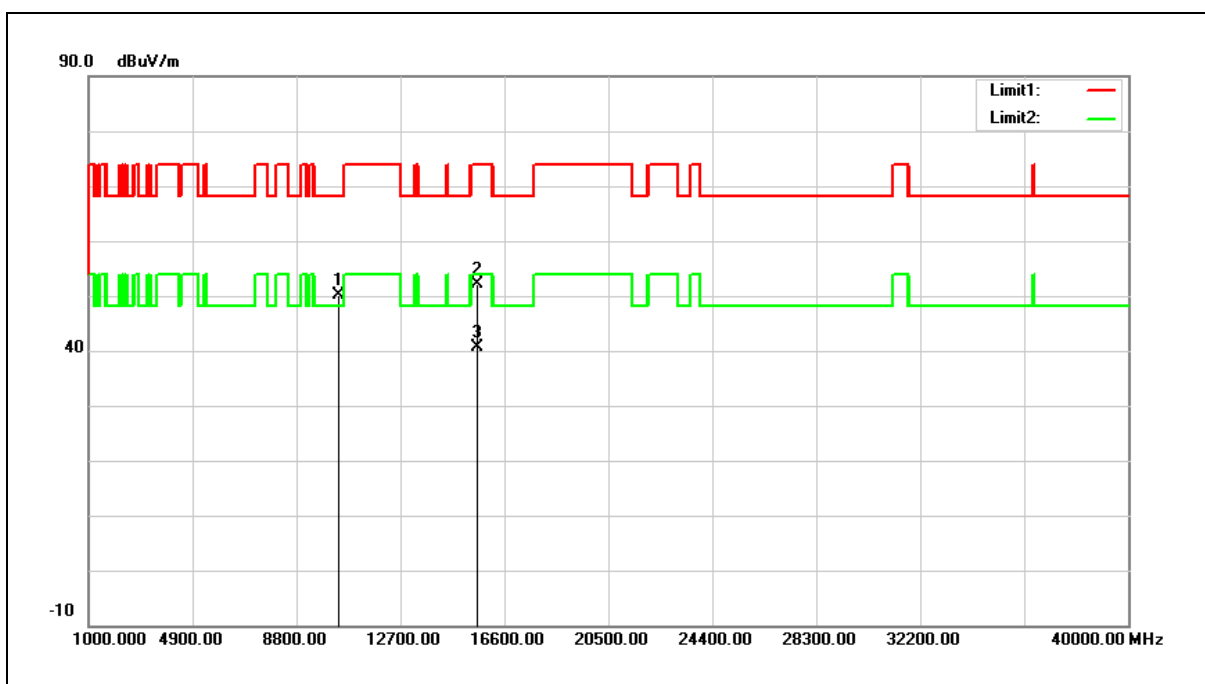
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	32.33	17.45	49.78	68.20	-18.42	peak
2	15600.000	31.90	20.64	52.54	74.00	-21.46	peak
3	15600.000	20.07	20.64	40.71	54.00	-13.29	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



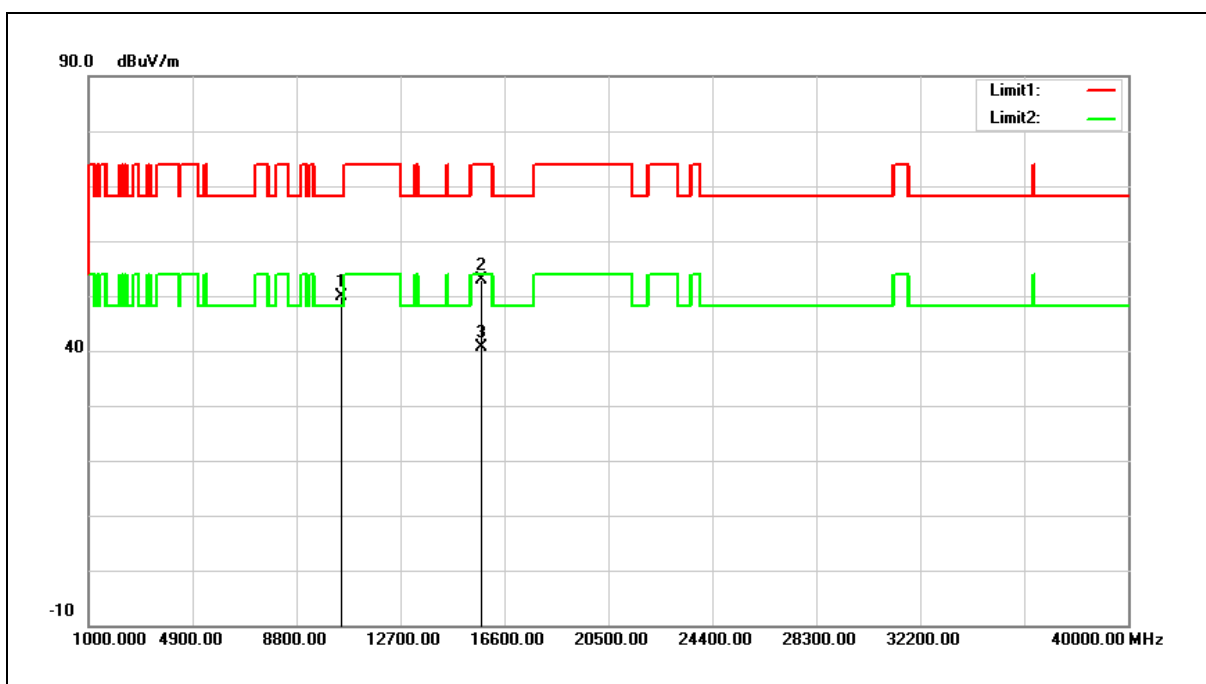
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	32.61	17.45	50.06	68.20	-18.14	peak
2	15600.000	31.52	20.64	52.16	74.00	-21.84	peak
3	15600.000	20.06	20.64	40.70	54.00	-13.30	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



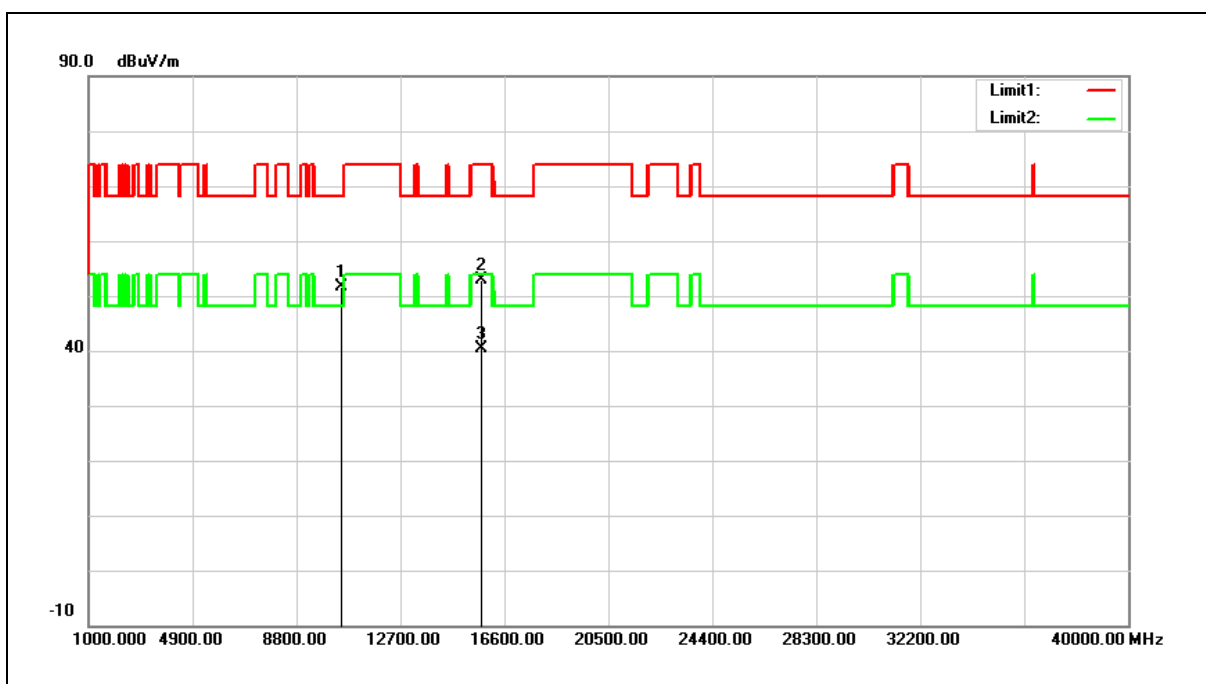
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	32.26	17.70	49.96	68.20	-18.24	peak
2	15720.000	32.71	20.27	52.98	74.00	-21.02	peak
3	15720.000	20.41	20.27	40.68	54.00	-13.32	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



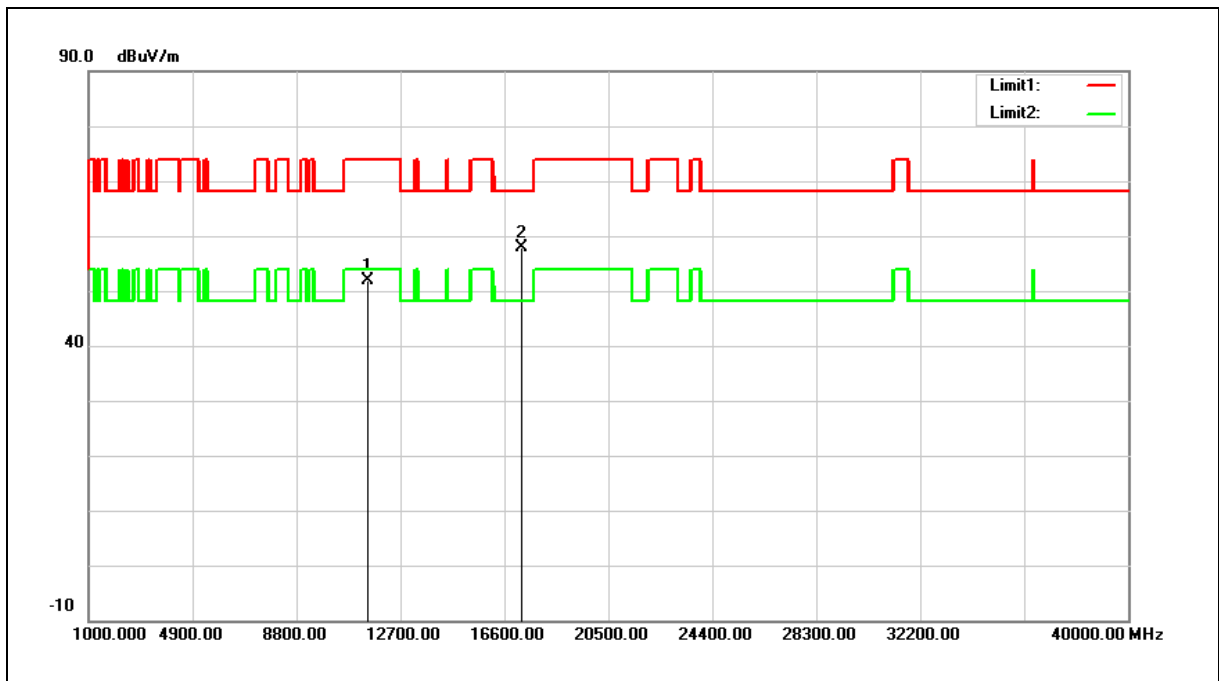
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	33.99	17.70	51.69	68.20	-16.51	peak
2	15720.000	32.66	20.27	52.93	74.00	-21.07	peak
3	15720.000	20.12	20.27	40.39	54.00	-13.61	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



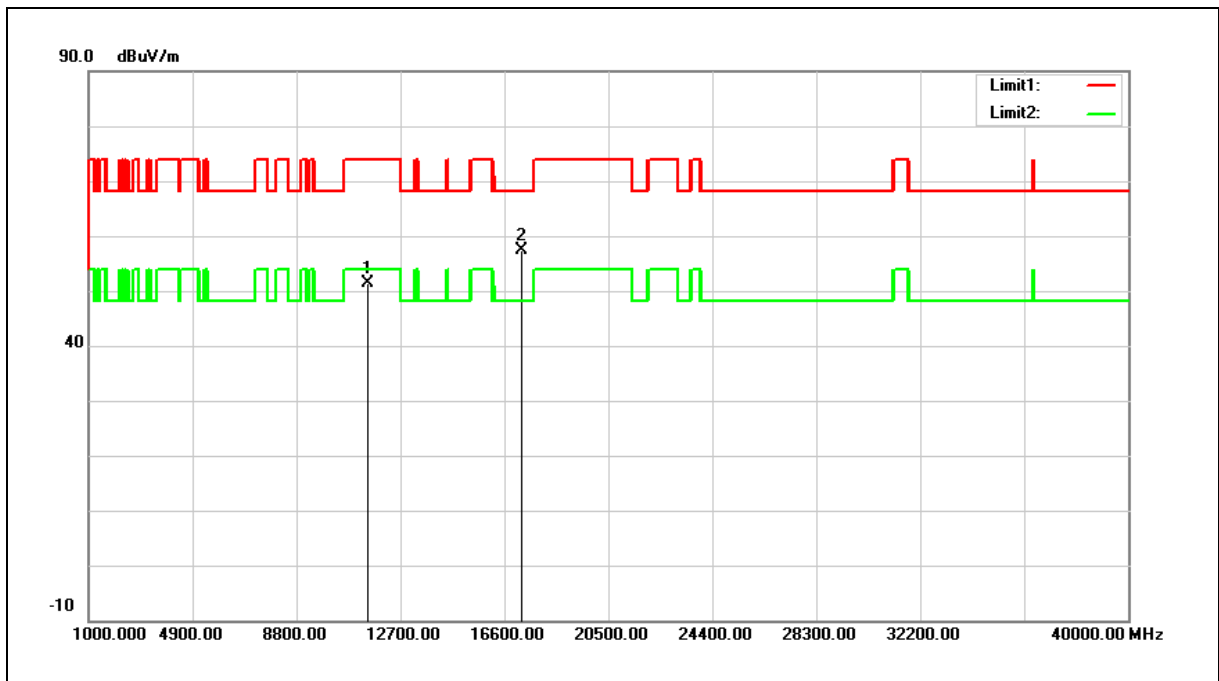
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	32.63	19.30	51.93	74.00	-22.07	peak
2	17235.000	32.79	25.04	57.83	68.20	-10.37	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



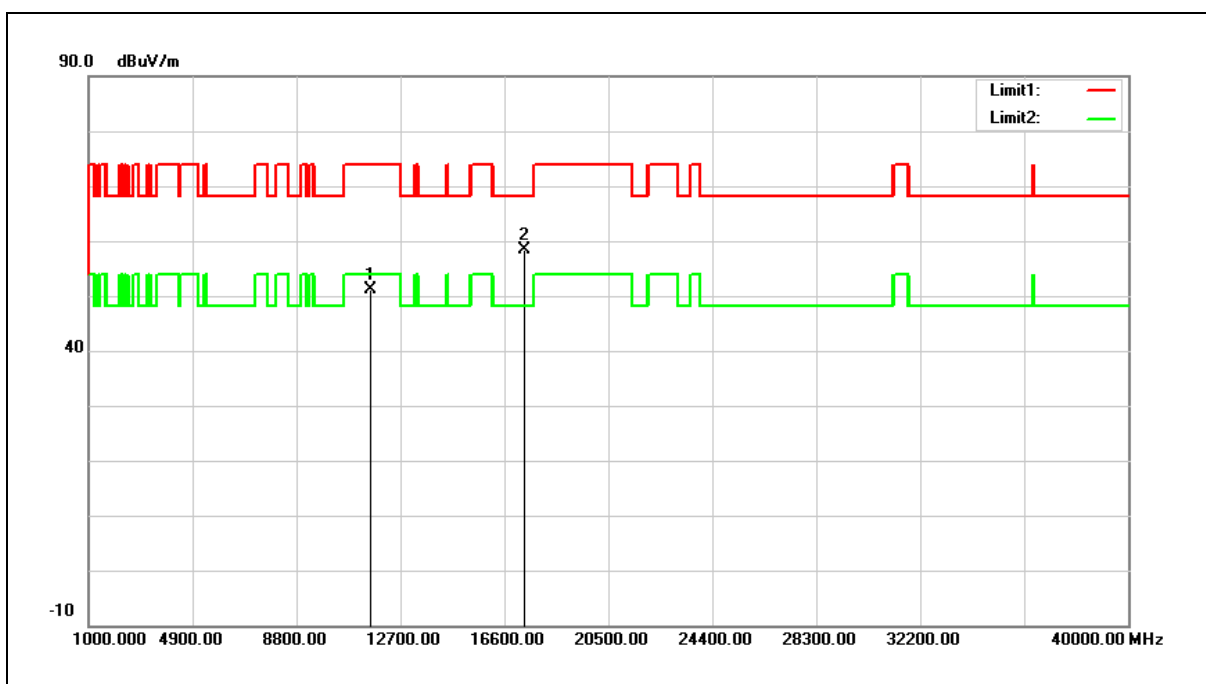
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	32.12	19.30	51.42	74.00	-22.58	peak
2	17235.000	32.36	25.04	57.40	68.20	-10.80	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



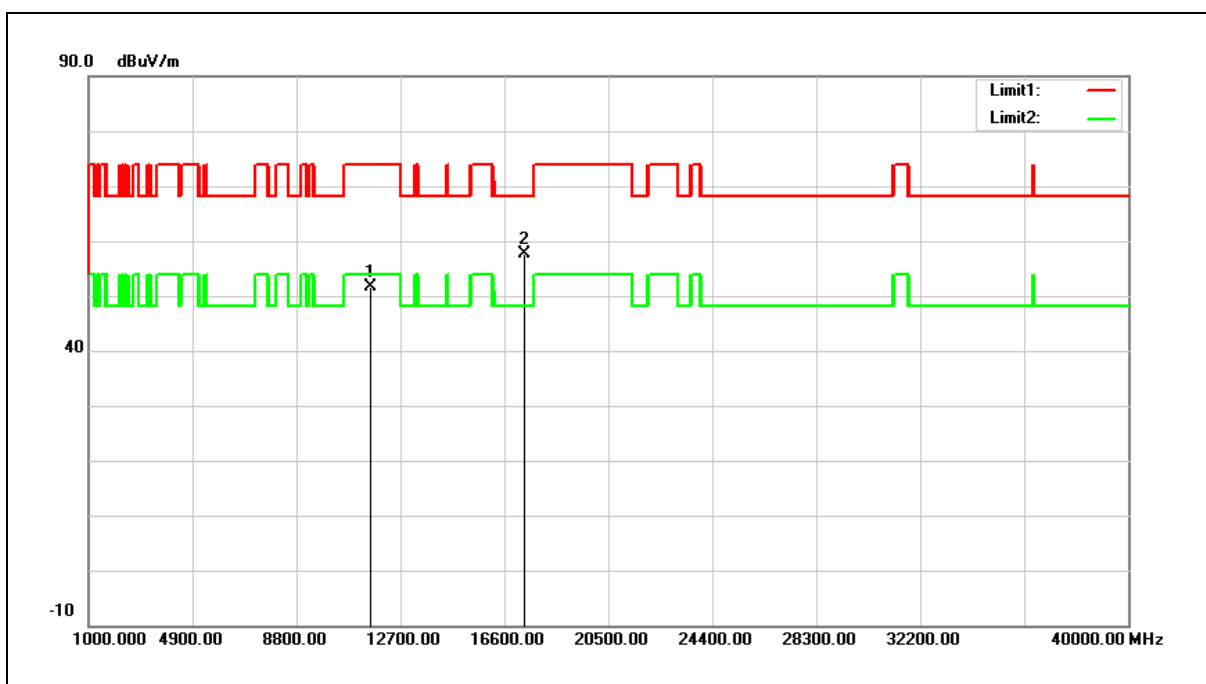
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	31.85	19.27	51.12	74.00	-22.88	peak
2	17355.000	32.93	25.40	58.33	68.20	-9.87	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



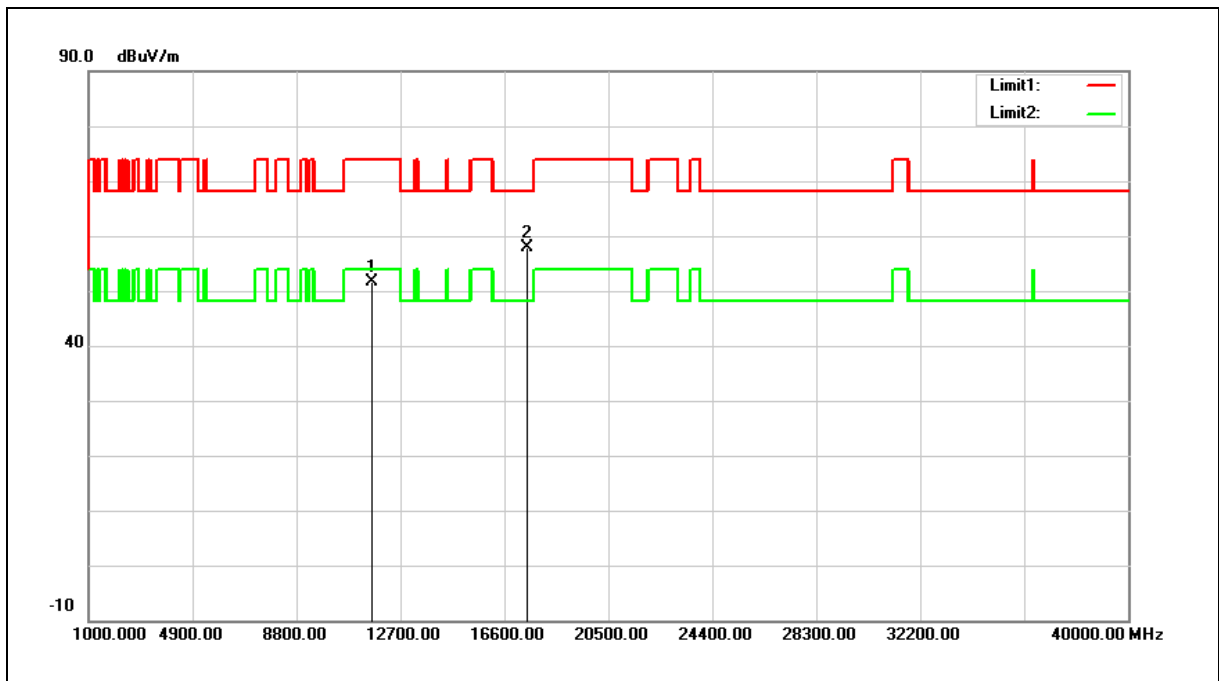
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	32.40	19.27	51.67	74.00	-22.33	peak
2	17355.000	32.27	25.40	57.67	68.20	-10.53	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



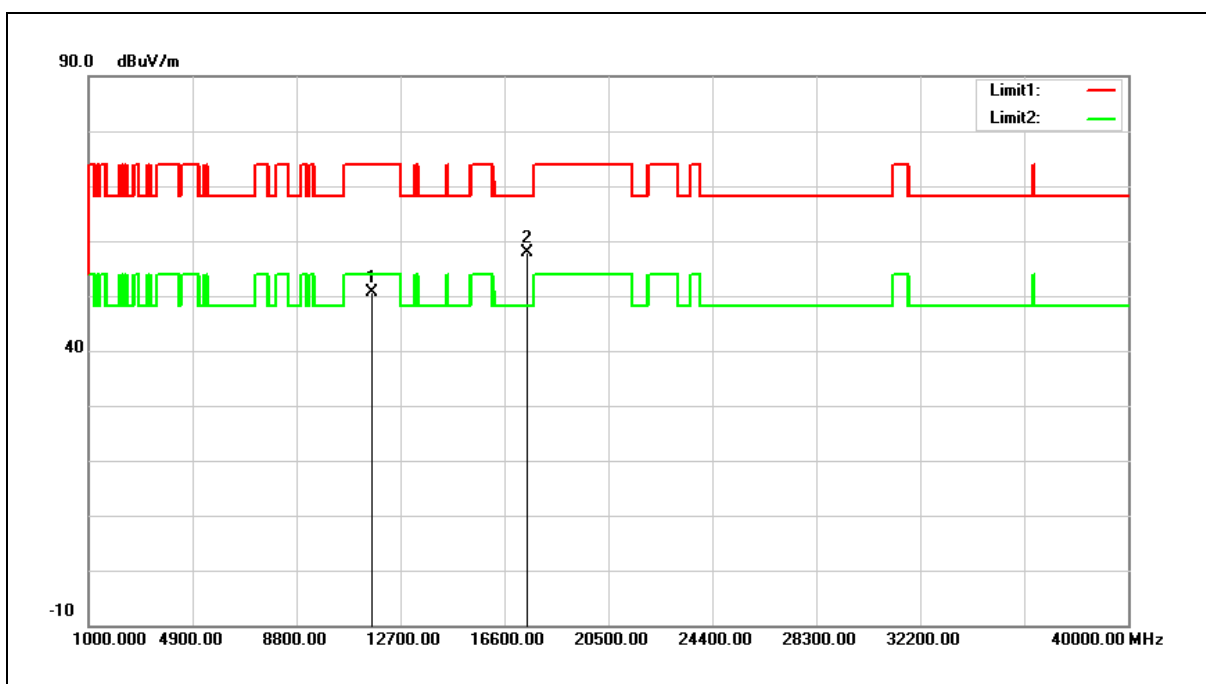
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	32.52	19.23	51.75	74.00	-22.25	peak
2	17475.000	32.04	25.74	57.78	68.20	-10.42	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



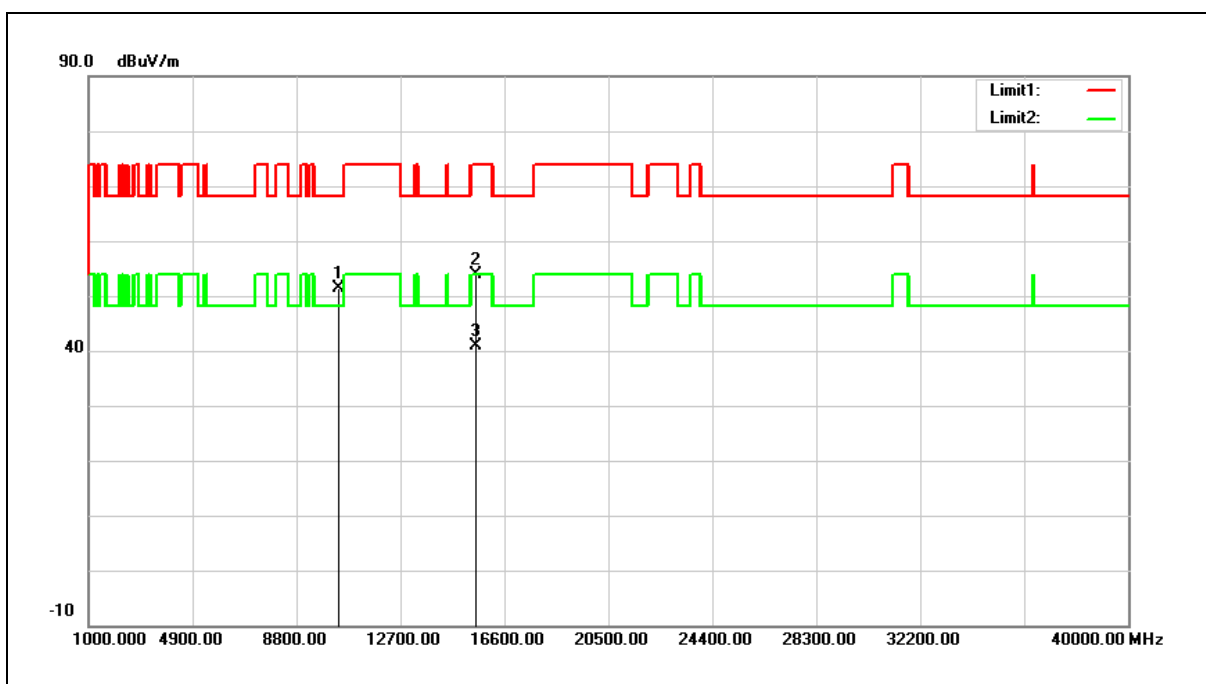
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	31.43	19.23	50.66	74.00	-23.34	peak
2	17475.000	32.25	25.74	57.99	68.20	-10.21	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



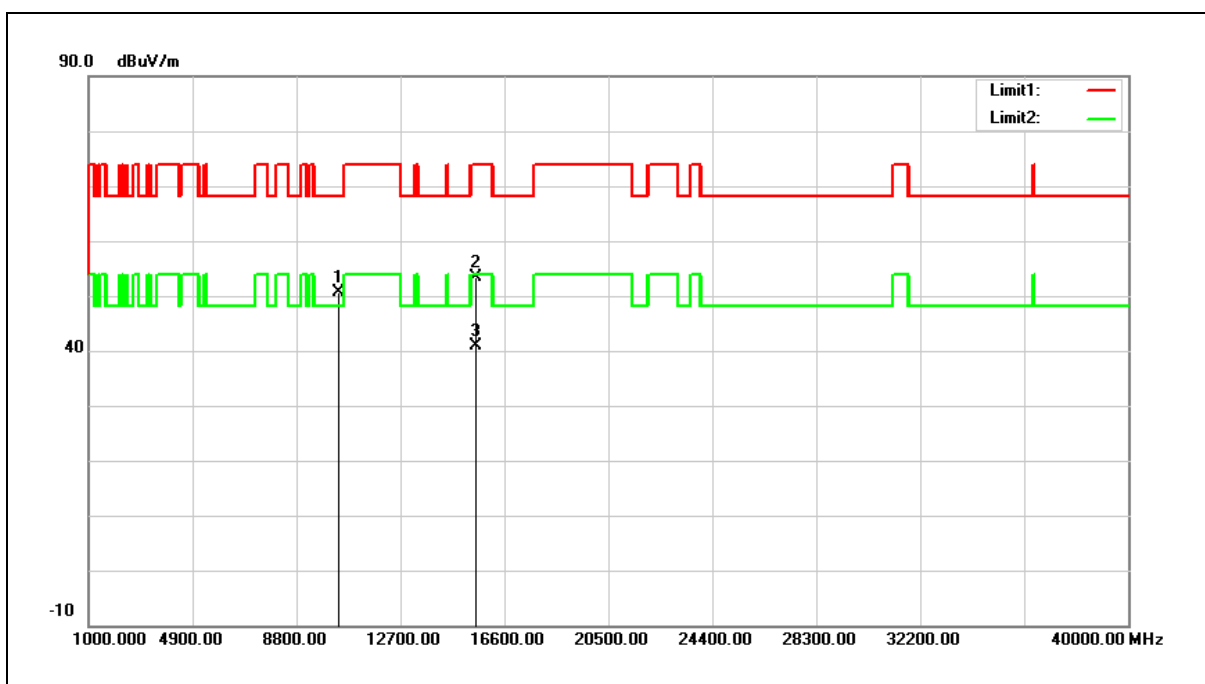
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	34.12	17.33	51.45	68.20	-16.75	peak
2	15540.000	32.96	20.84	53.80	74.00	-20.20	peak
3	15540.000	20.03	20.84	40.87	54.00	-13.13	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



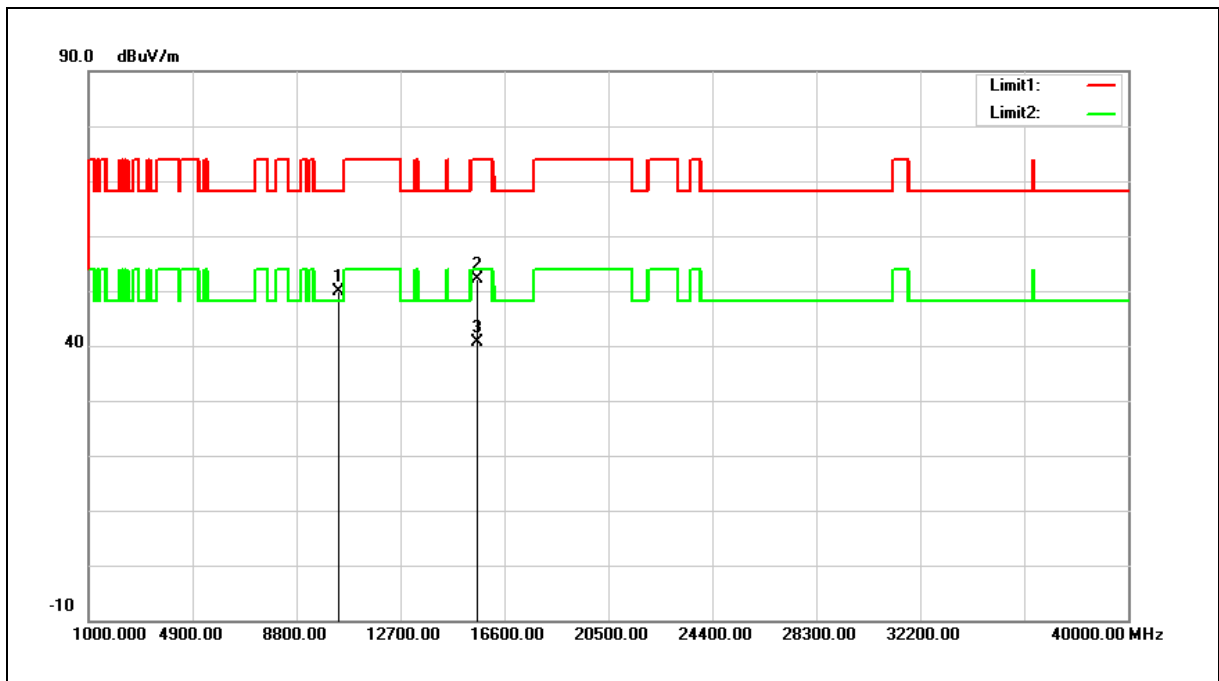
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	33.40	17.33	50.73	68.20	-17.47	peak
2	15540.000	32.49	20.84	53.33	74.00	-20.67	peak
3	15540.000	20.10	20.84	40.94	54.00	-13.06	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



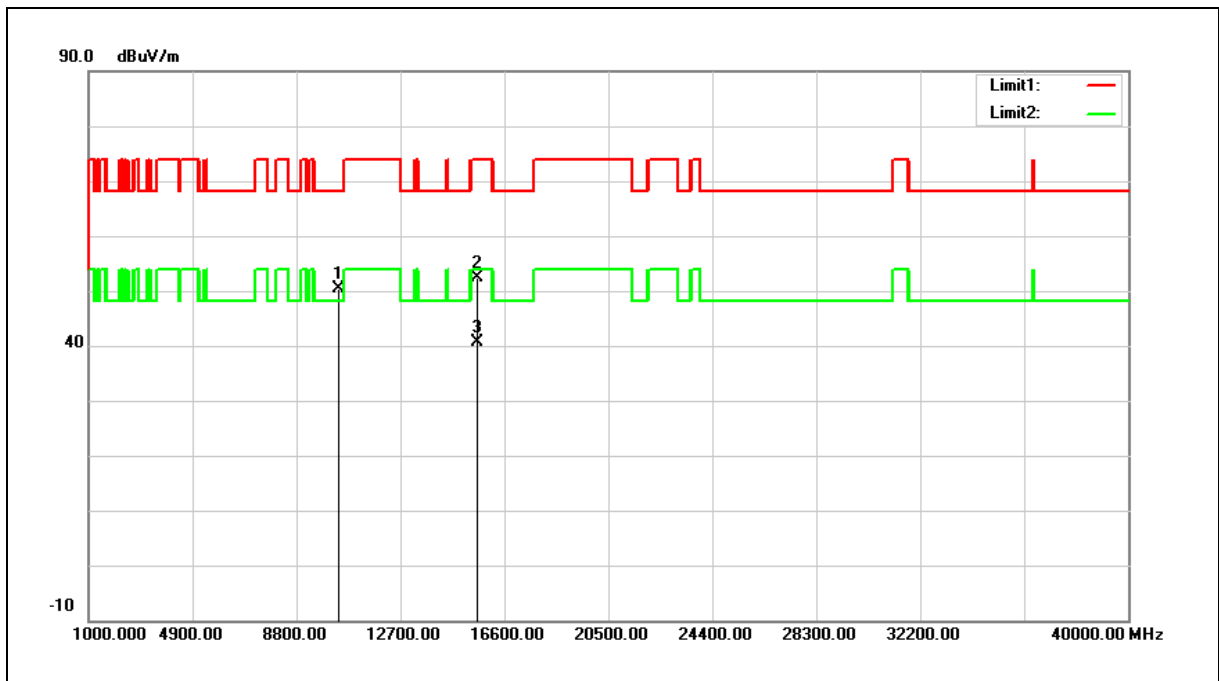
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	32.44	17.45	49.89	68.20	-18.31	peak
2	15600.000	31.50	20.64	52.14	74.00	-21.86	peak
3	15600.000	20.08	20.64	40.72	54.00	-13.28	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



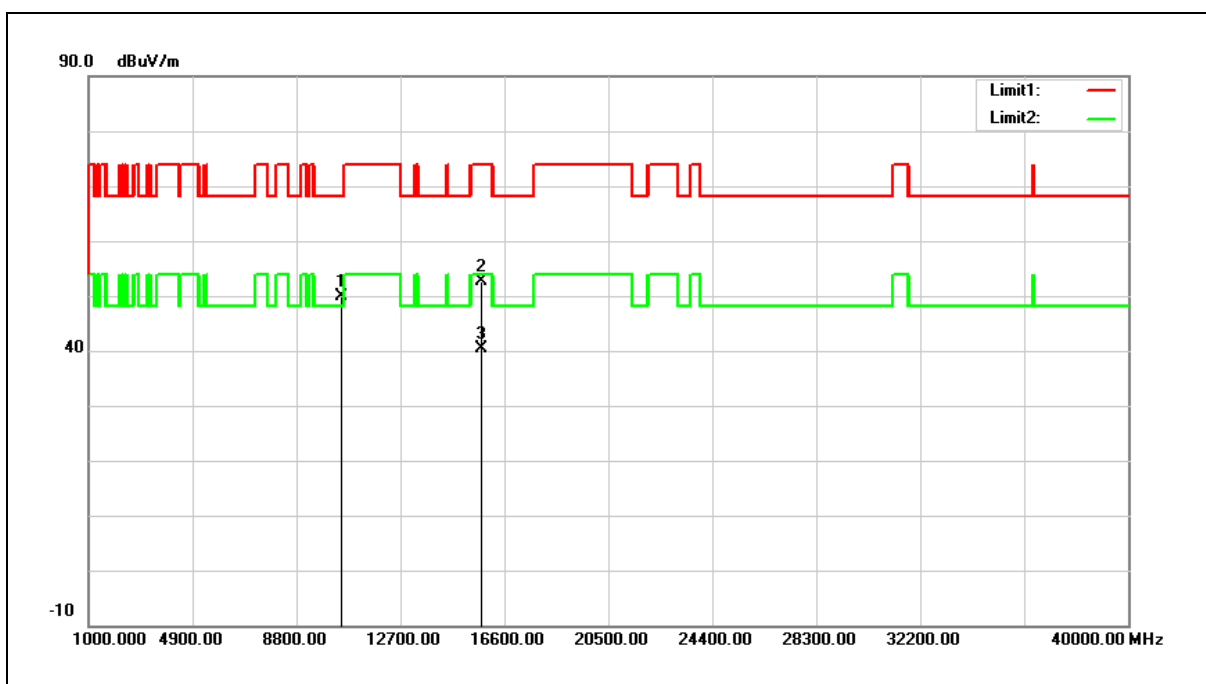
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	33.00	17.45	50.45	68.20	-17.75	peak
2	15600.000	31.66	20.64	52.30	74.00	-21.70	peak
3	15600.000	20.08	20.64	40.72	54.00	-13.28	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



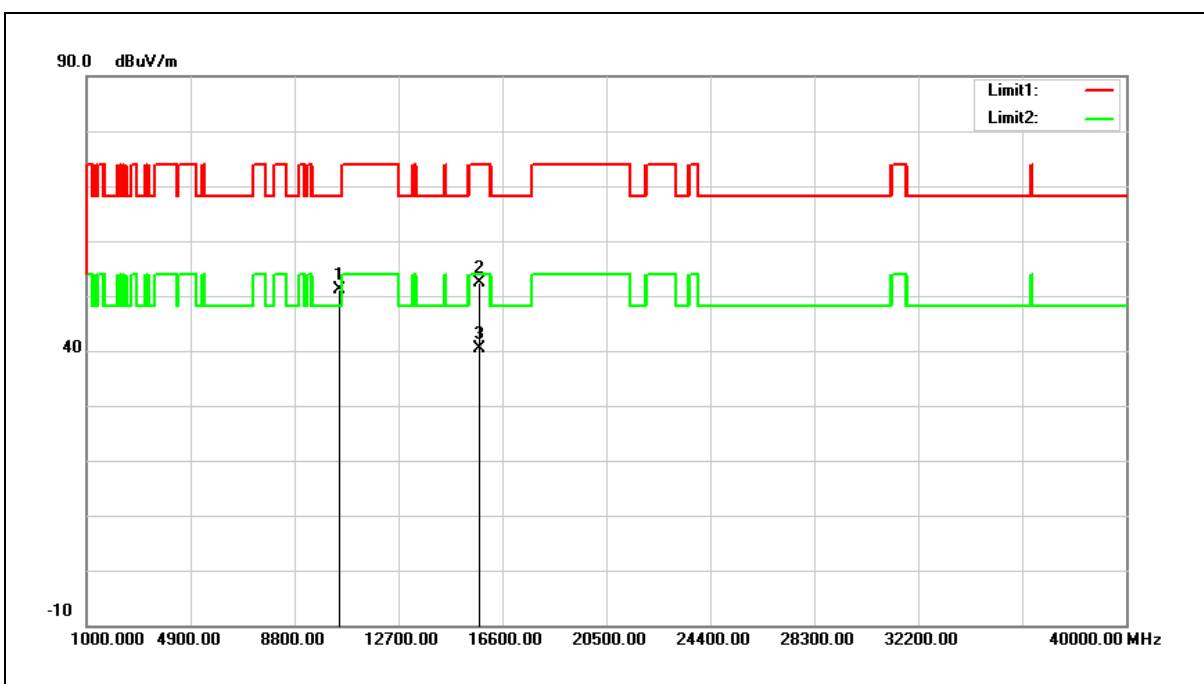
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	32.20	17.70	49.90	68.20	-18.30	peak
2	15720.000	32.40	20.27	52.67	74.00	-21.33	peak
3	15720.000	20.14	20.27	40.41	54.00	-13.59	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



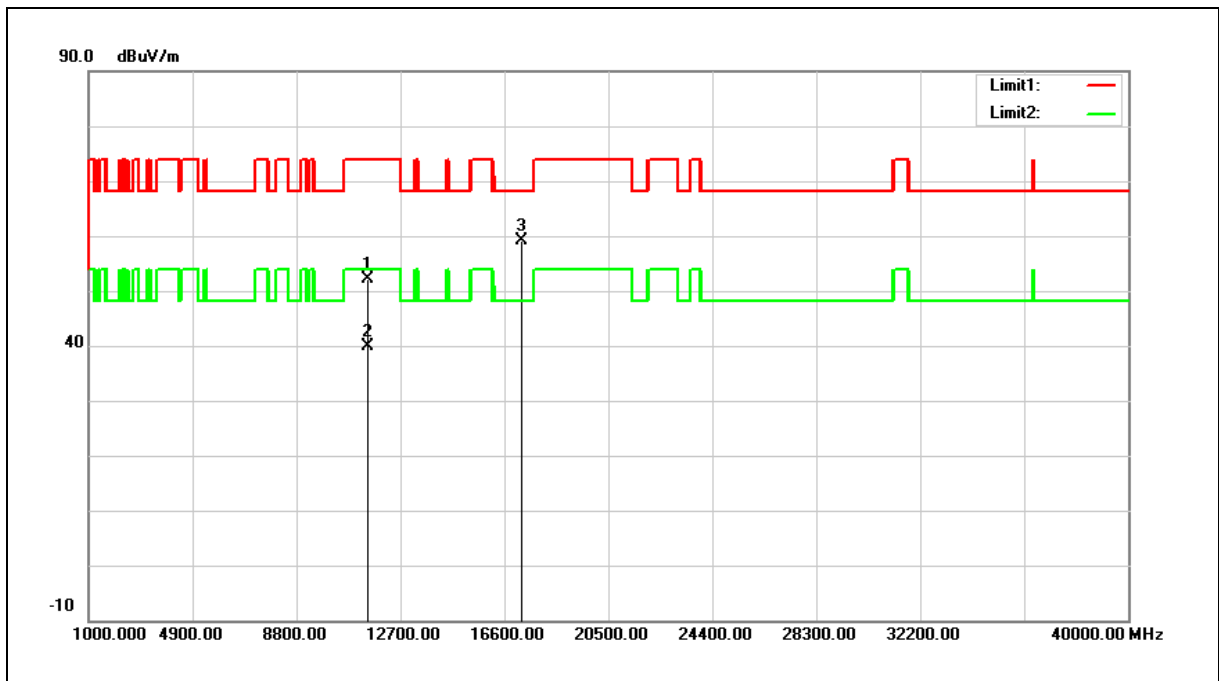
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	33.36	17.70	51.06	68.20	-17.14	peak
2	15720.000	32.18	20.27	52.45	74.00	-21.55	peak
3	15720.000	20.13	20.27	40.40	54.00	-13.60	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



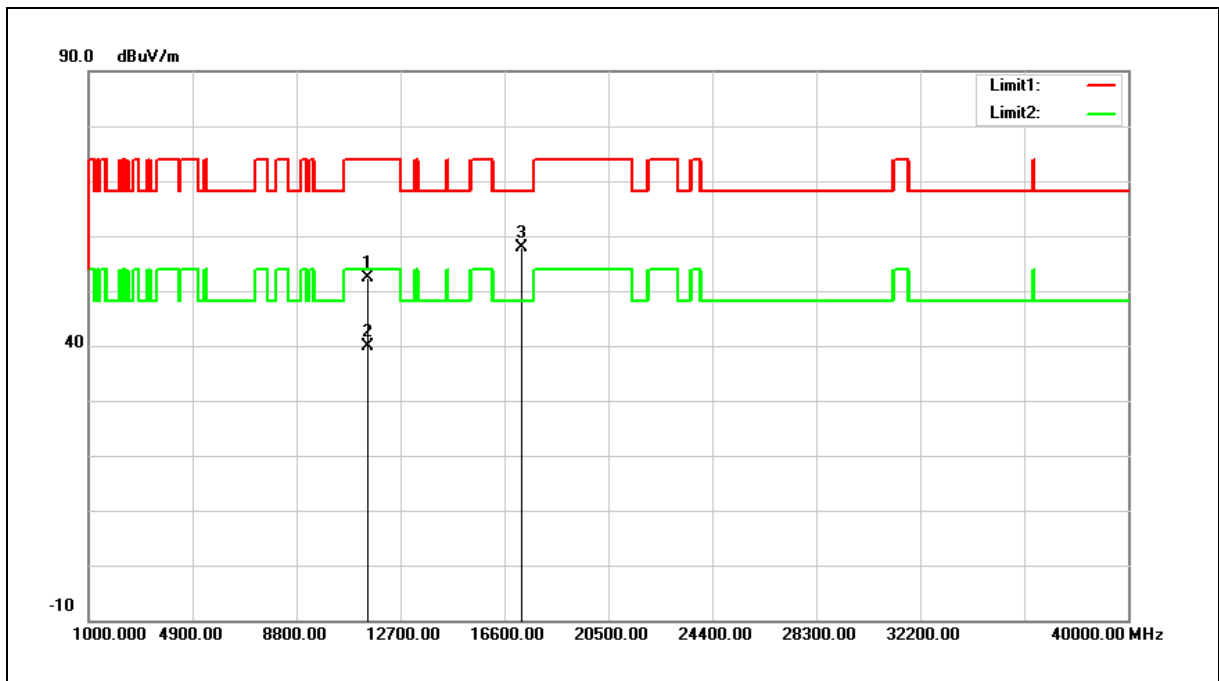
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	32.88	19.30	52.18	74.00	-21.82	peak
2	11490.000	20.46	19.30	39.76	54.00	-14.24	AVG
3	17235.000	34.15	25.04	59.19	68.20	-9.01	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



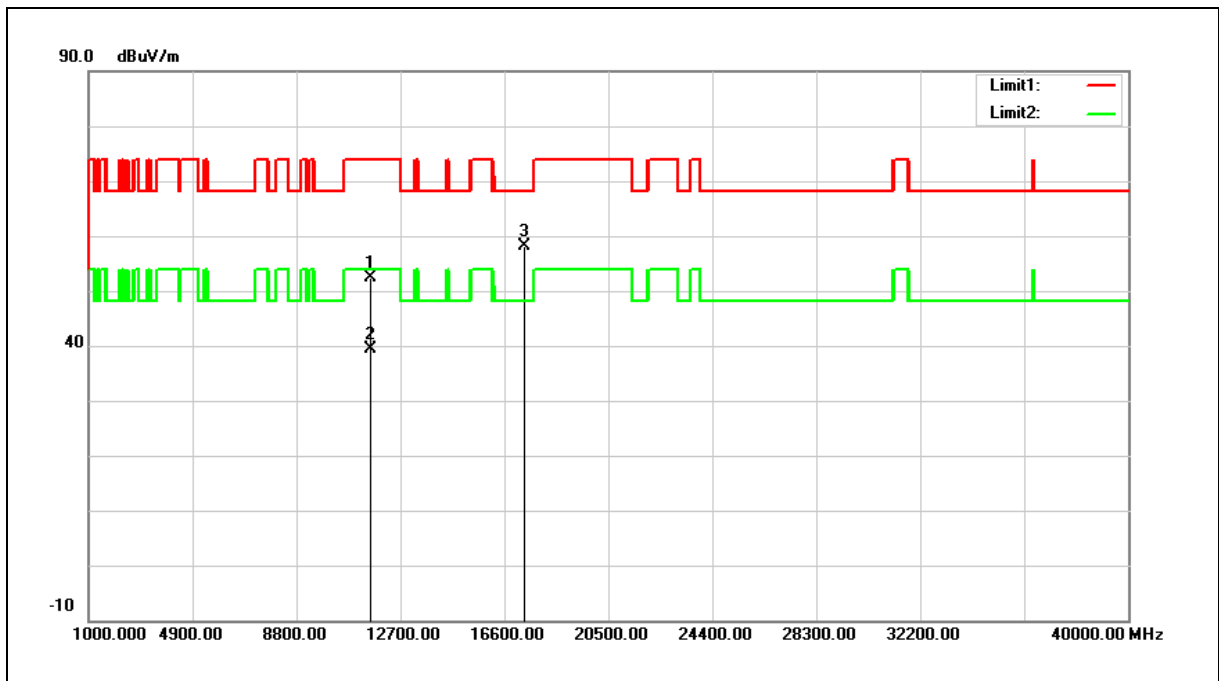
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	33.09	19.30	52.39	74.00	-21.61	peak
2	11490.000	20.47	19.30	39.77	54.00	-14.23	AVG
3	17235.000	32.72	25.04	57.76	68.20	-10.44	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



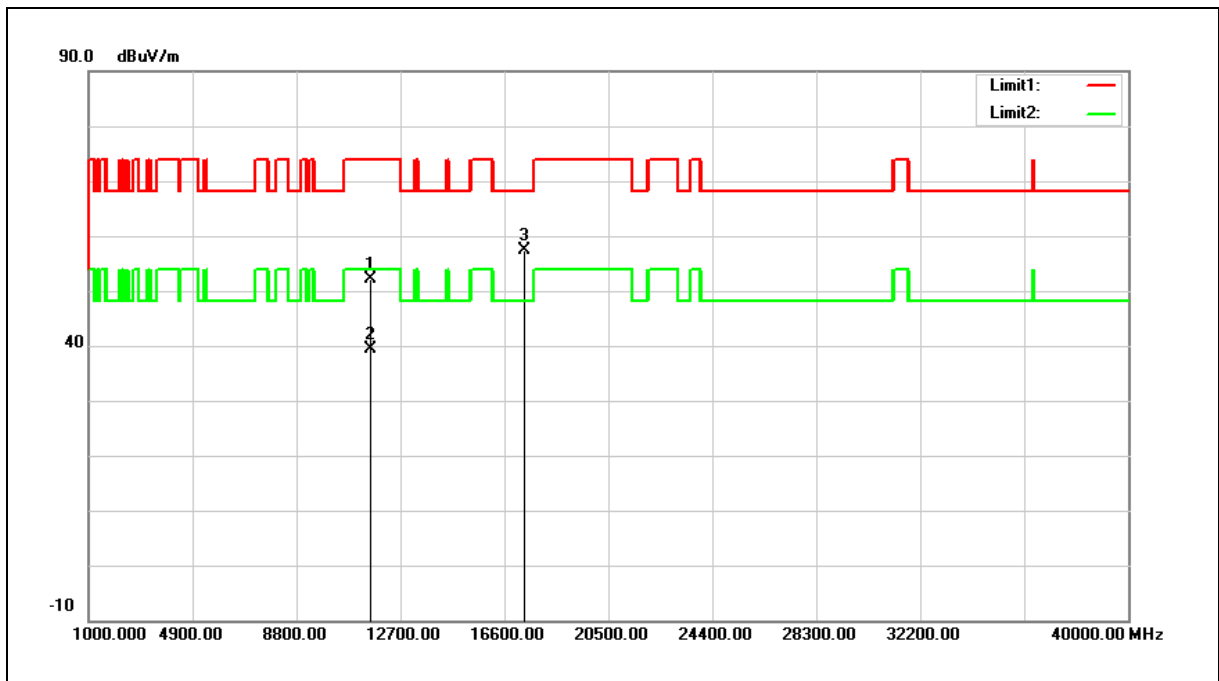
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	33.05	19.27	52.32	74.00	-21.68	peak
2	11570.000	20.08	19.27	39.35	54.00	-14.65	AVG
3	17355.000	32.75	25.40	58.15	68.20	-10.05	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



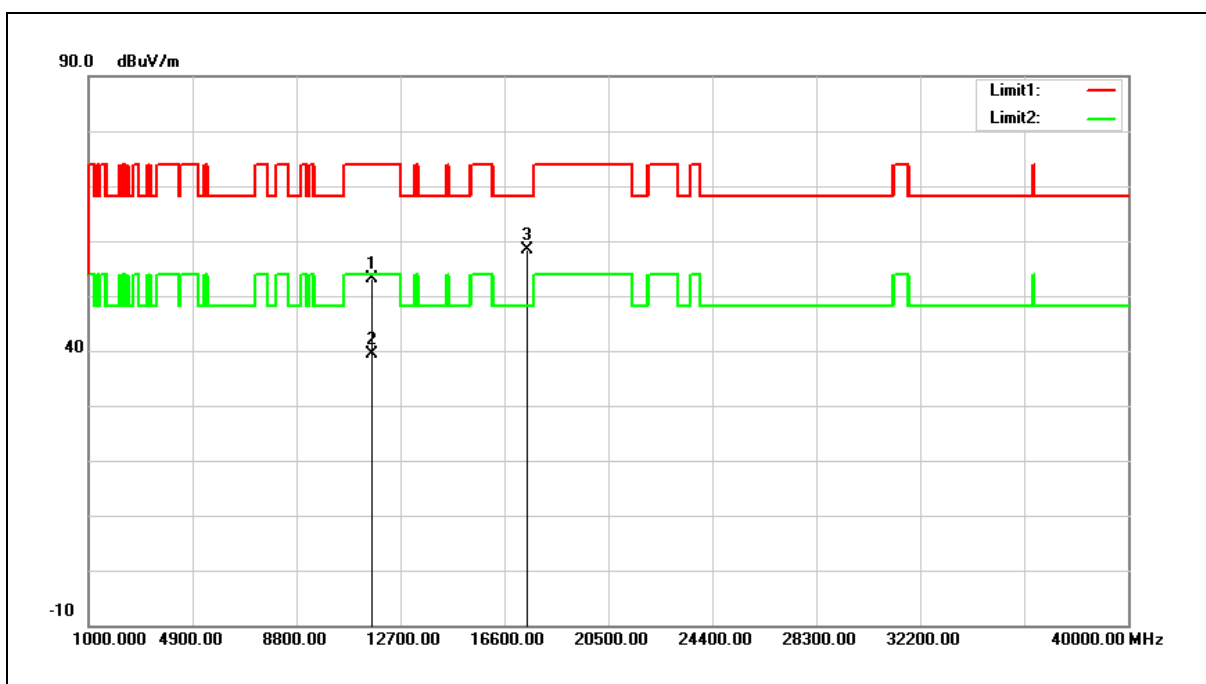
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	32.74	19.27	52.01	74.00	-21.99	peak
2	11570.000	20.10	19.27	39.37	54.00	-14.63	AVG
3	17355.000	31.87	25.40	57.27	68.20	-10.93	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



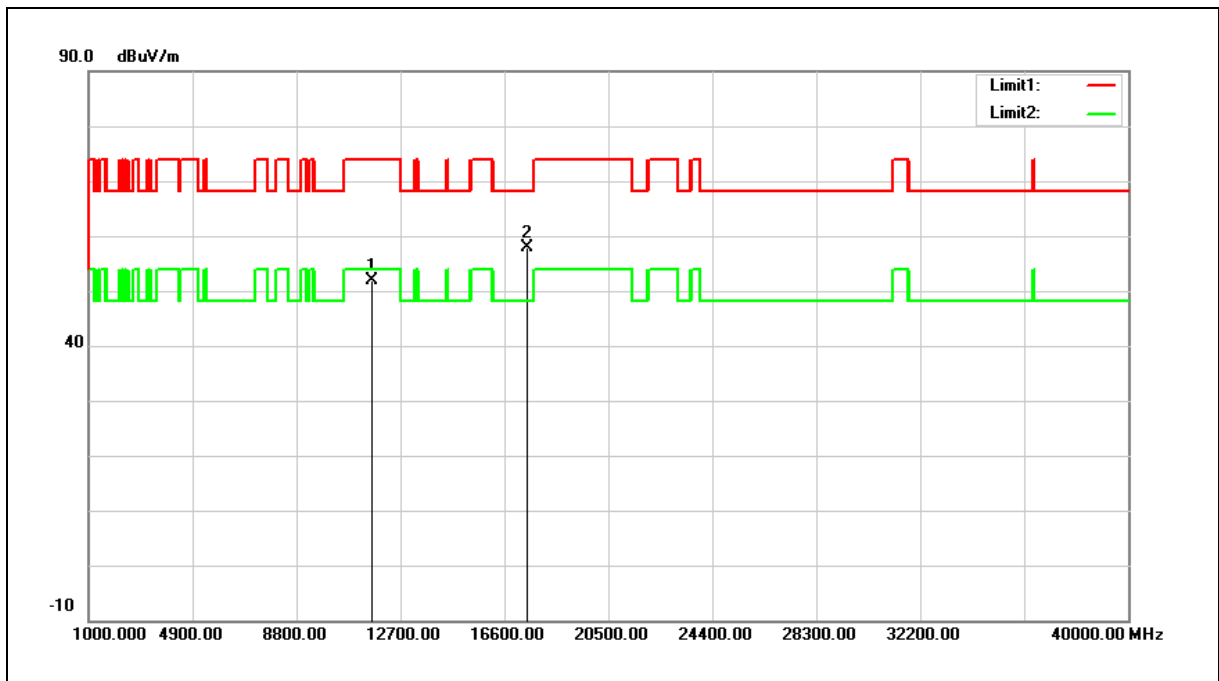
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	33.83	19.23	53.06	74.00	-20.94	peak
2	11650.000	20.20	19.23	39.43	54.00	-14.57	AVG
3	17475.000	32.58	25.74	58.32	68.20	-9.88	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



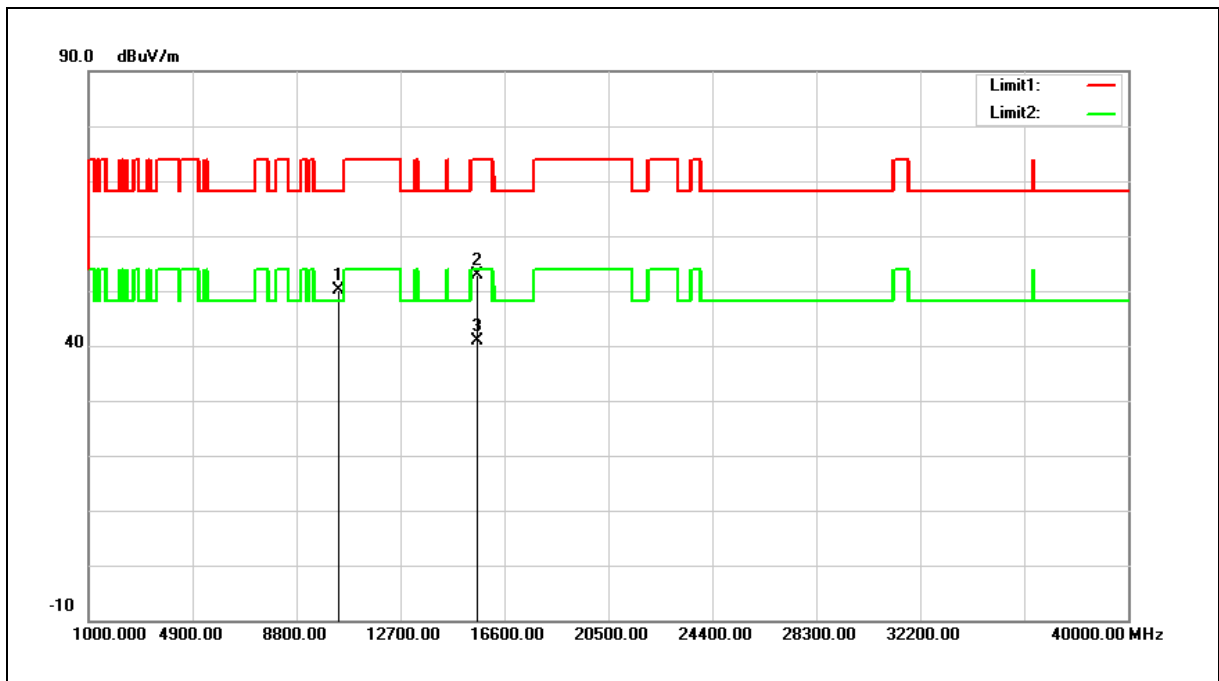
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	32.65	19.23	51.88	74.00	-22.12	peak
2	17475.000	32.07	25.74	57.81	68.20	-10.39	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5190 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



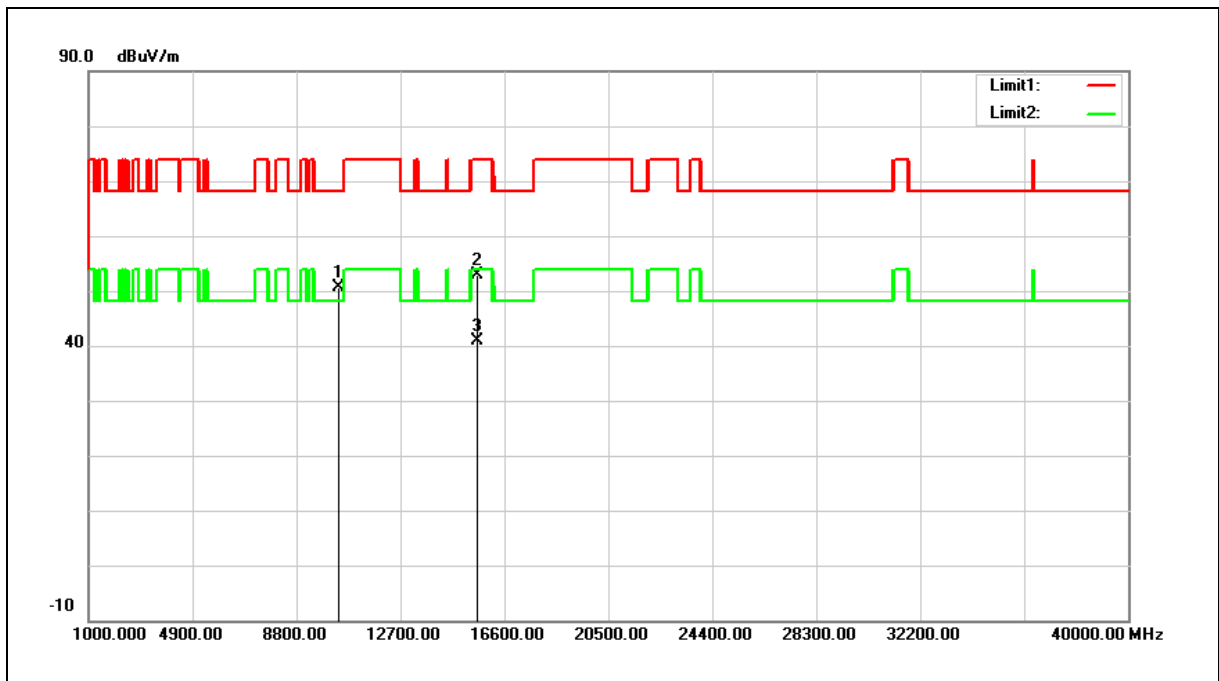
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	32.69	17.39	50.08	68.20	-18.12	peak
2	15570.000	32.17	20.75	52.92	74.00	-21.08	peak
3	15570.000	20.11	20.75	40.86	54.00	-13.14	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5190 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



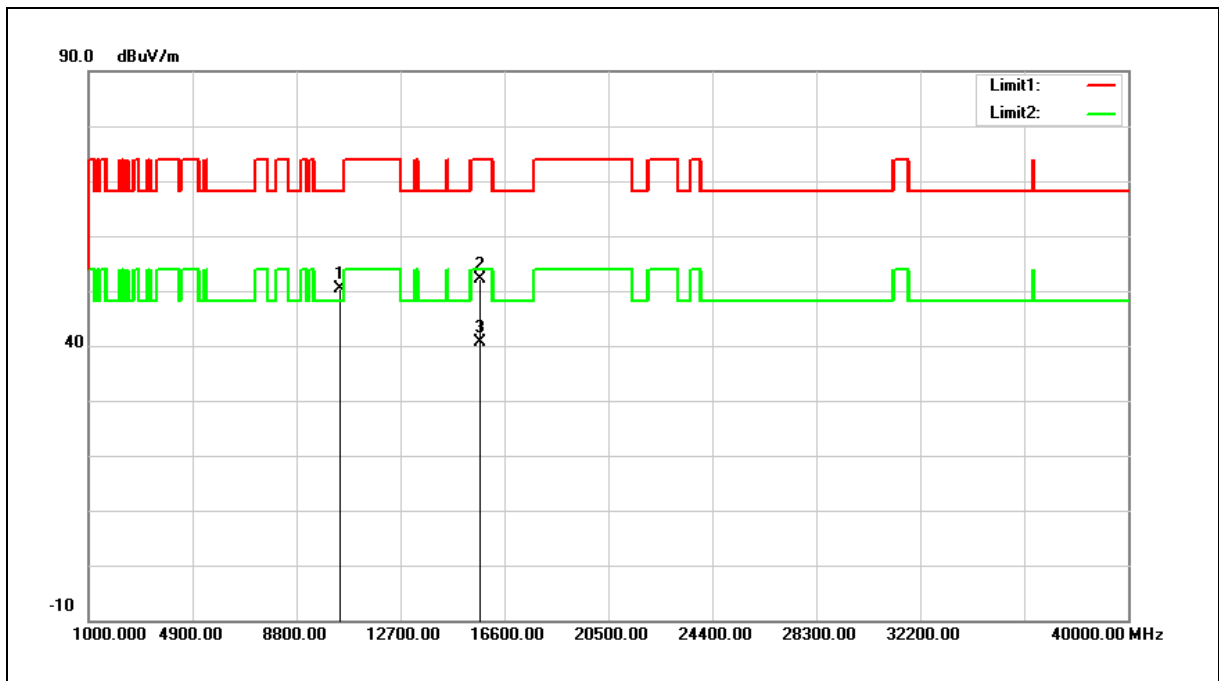
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	33.30	17.39	50.69	68.20	-17.51	peak
2	15570.000	32.06	20.75	52.81	74.00	-21.19	peak
3	15570.000	20.11	20.75	40.86	54.00	-13.14	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5230 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



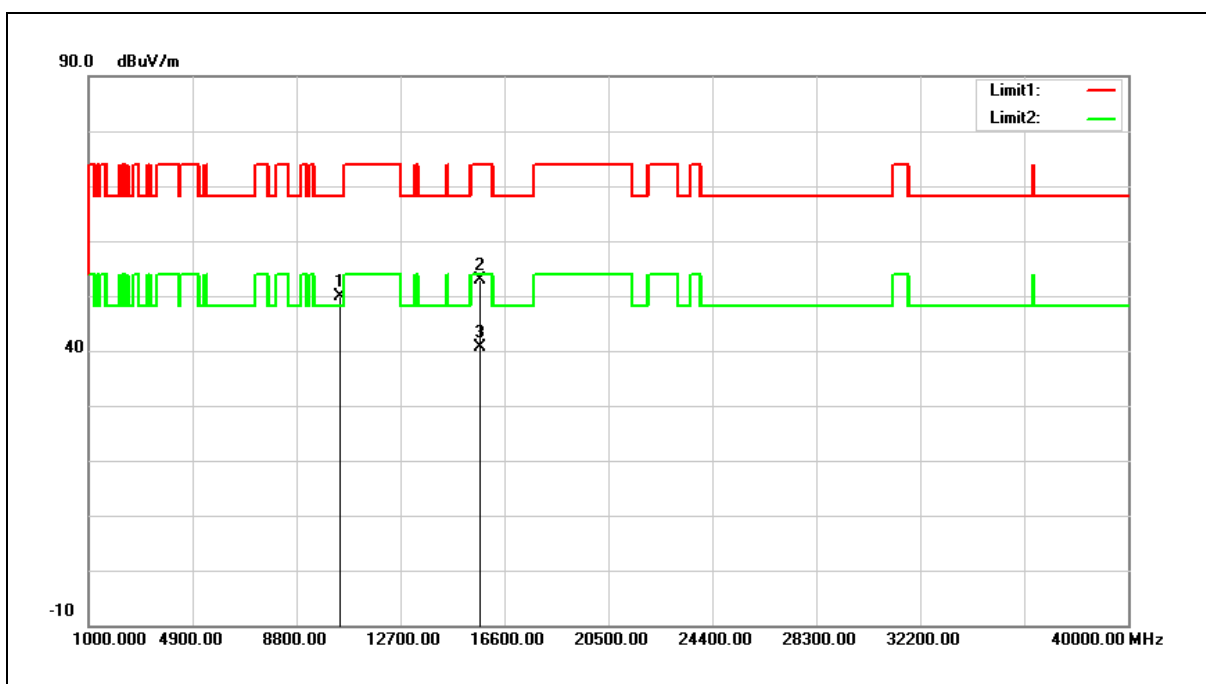
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	32.73	17.65	50.38	68.20	-17.82	peak
2	15690.000	31.66	20.36	52.02	74.00	-21.98	peak
3	15690.000	20.23	20.36	40.59	54.00	-13.41	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5230 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



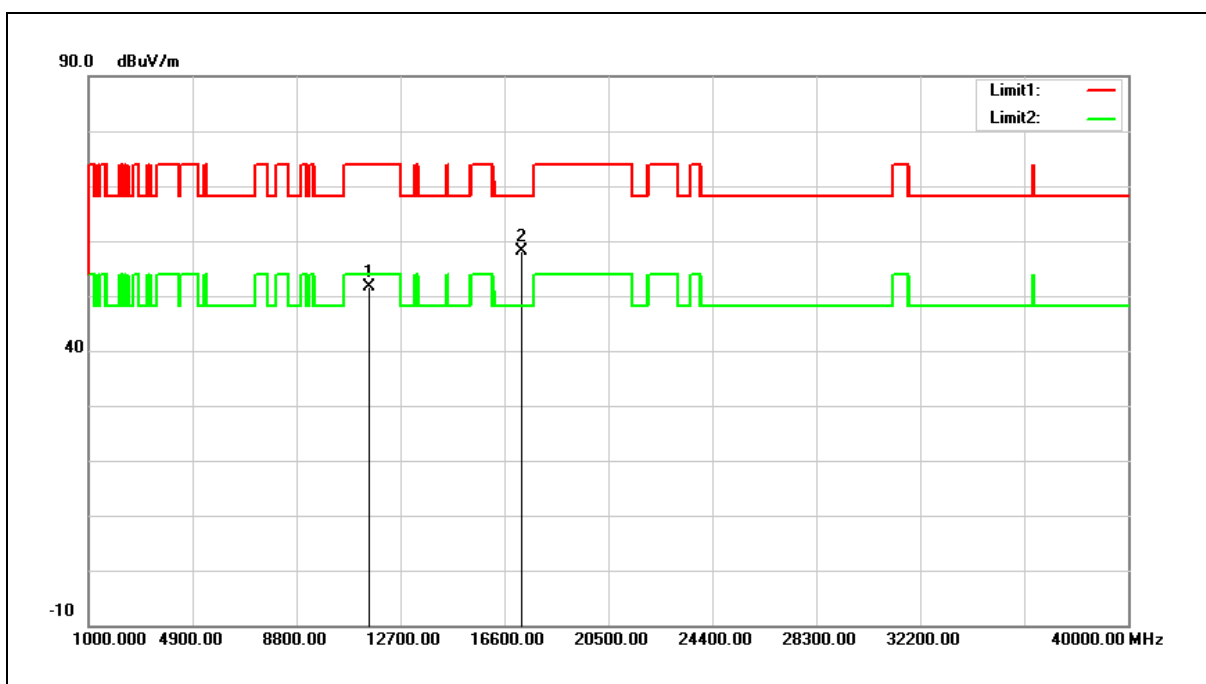
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	32.34	17.65	49.99	68.20	-18.21	peak
2	15690.000	32.64	20.36	53.00	74.00	-21.00	peak
3	15690.000	20.23	20.36	40.59	54.00	-13.41	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5755 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



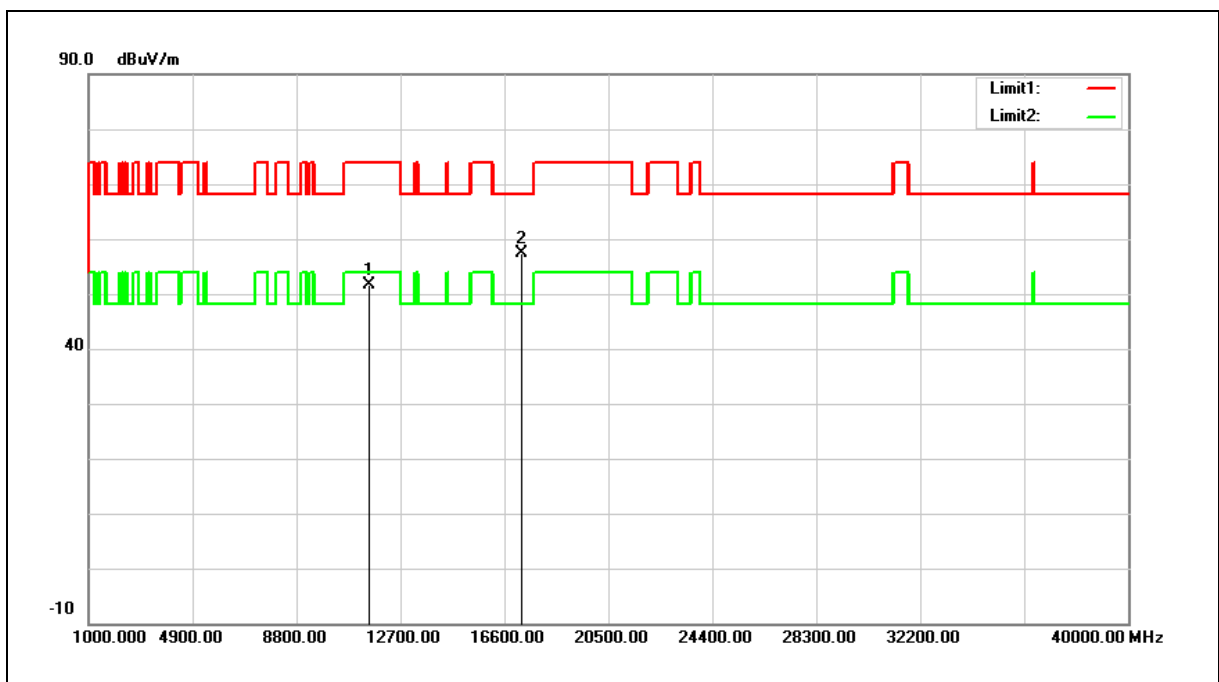
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	32.39	19.31	51.70	74.00	-22.30	peak
2	17265.000	32.92	25.13	58.05	68.20	-10.15	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5755 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



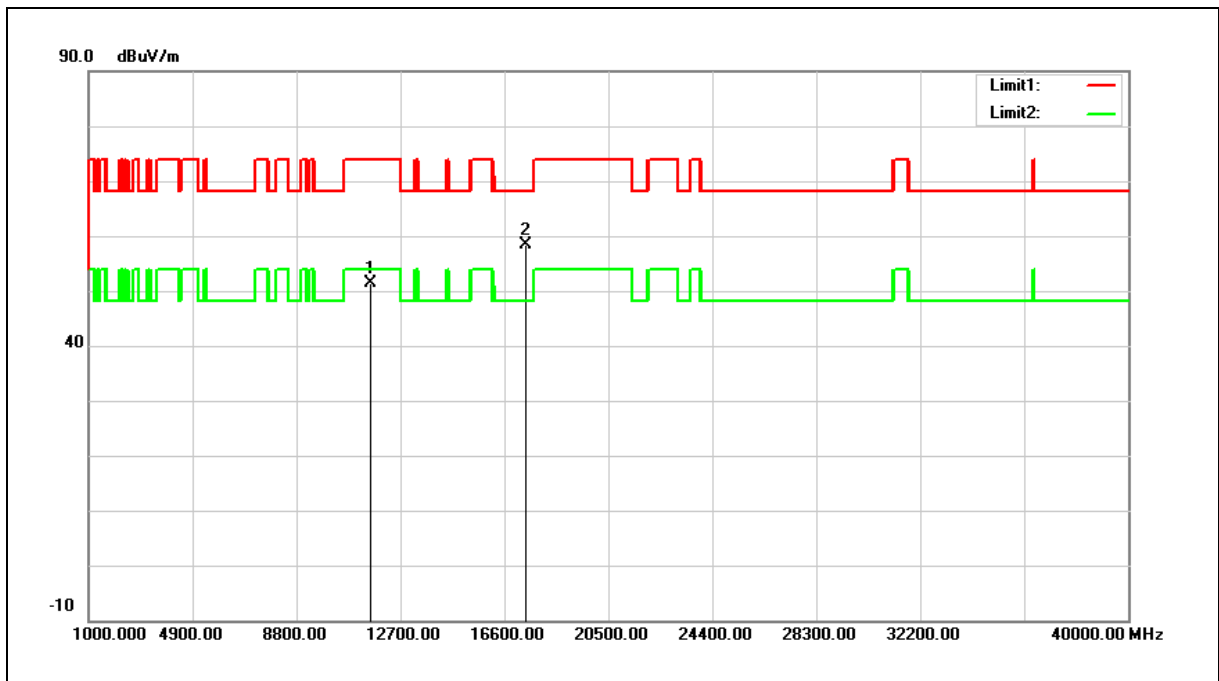
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	32.28	19.31	51.59	74.00	-22.41	peak
2	17265.000	32.33	25.13	57.46	68.20	-10.74	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5795 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



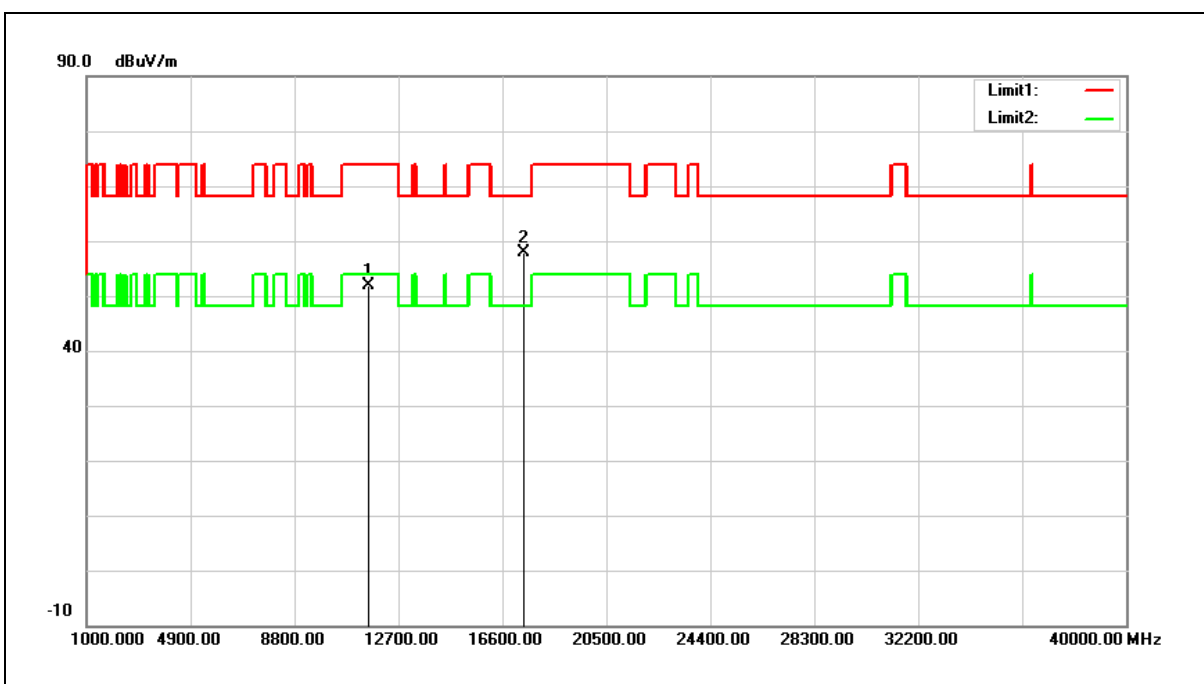
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	32.13	19.26	51.39	74.00	-22.61	peak
2	17385.000	32.82	25.48	58.30	68.20	-9.90	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5795 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	11590.000	32.52	19.26	51.78	74.00	-22.22	peak
2	17385.000	32.48	25.48	57.96	68.20	-10.24	peak

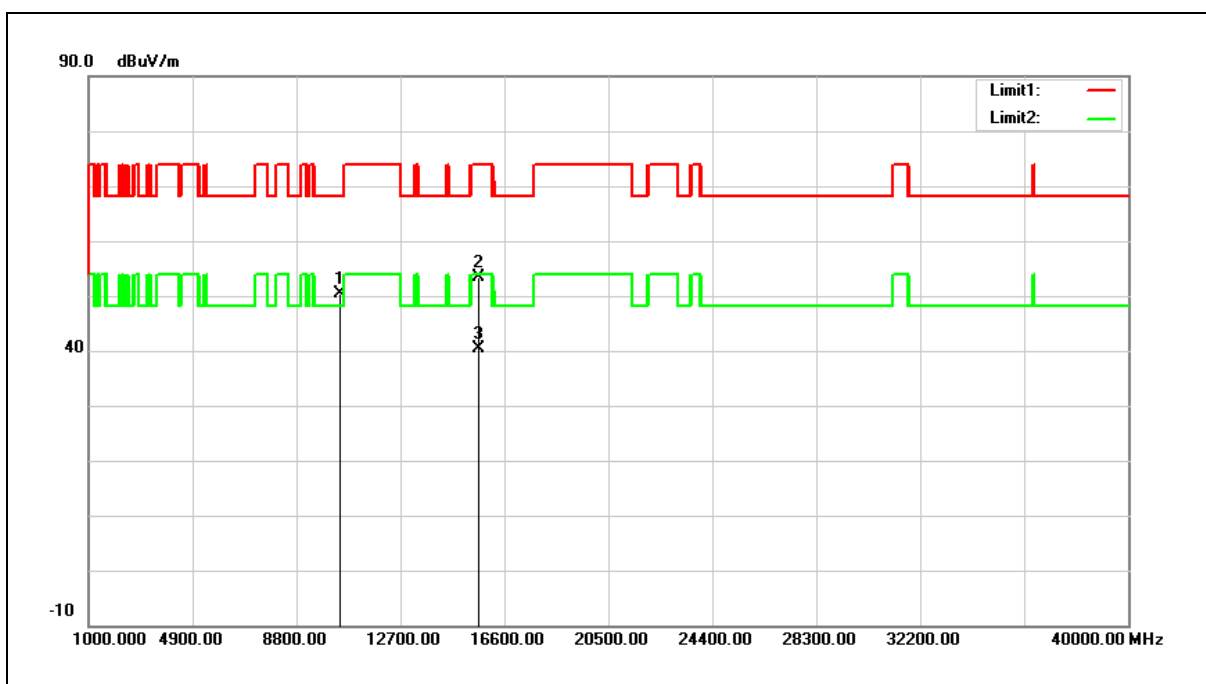
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5210 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



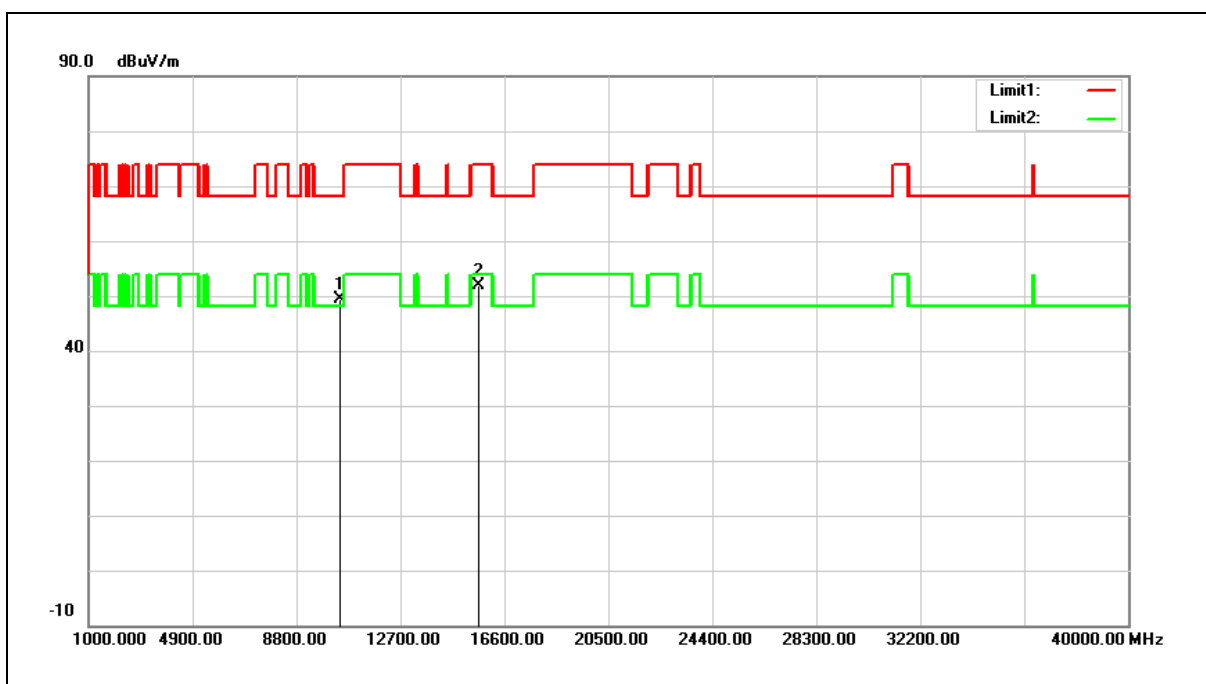
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	32.95	17.51	50.46	68.20	-17.74	peak
2	15630.000	32.74	20.55	53.29	74.00	-20.71	peak
3	15630.000	19.84	20.55	40.39	54.00	-13.61	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5210 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



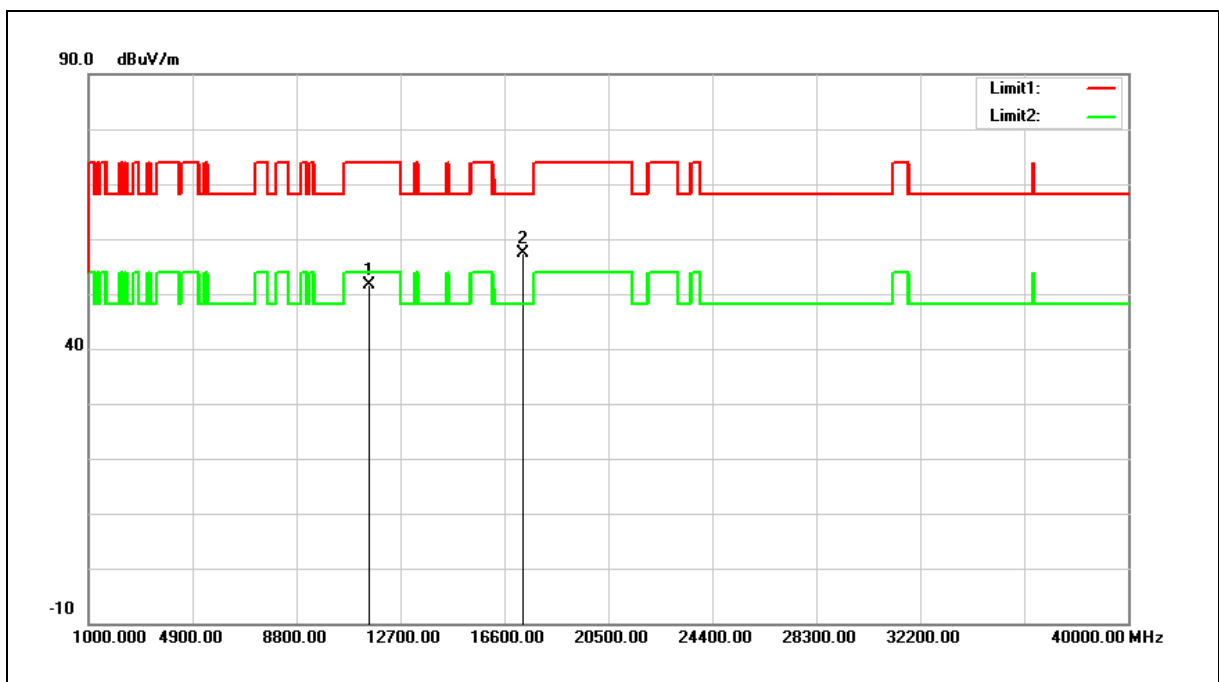
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	31.99	17.51	49.50	68.20	-18.70	peak
2	15630.000	31.45	20.55	52.00	74.00	-22.00	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5775 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



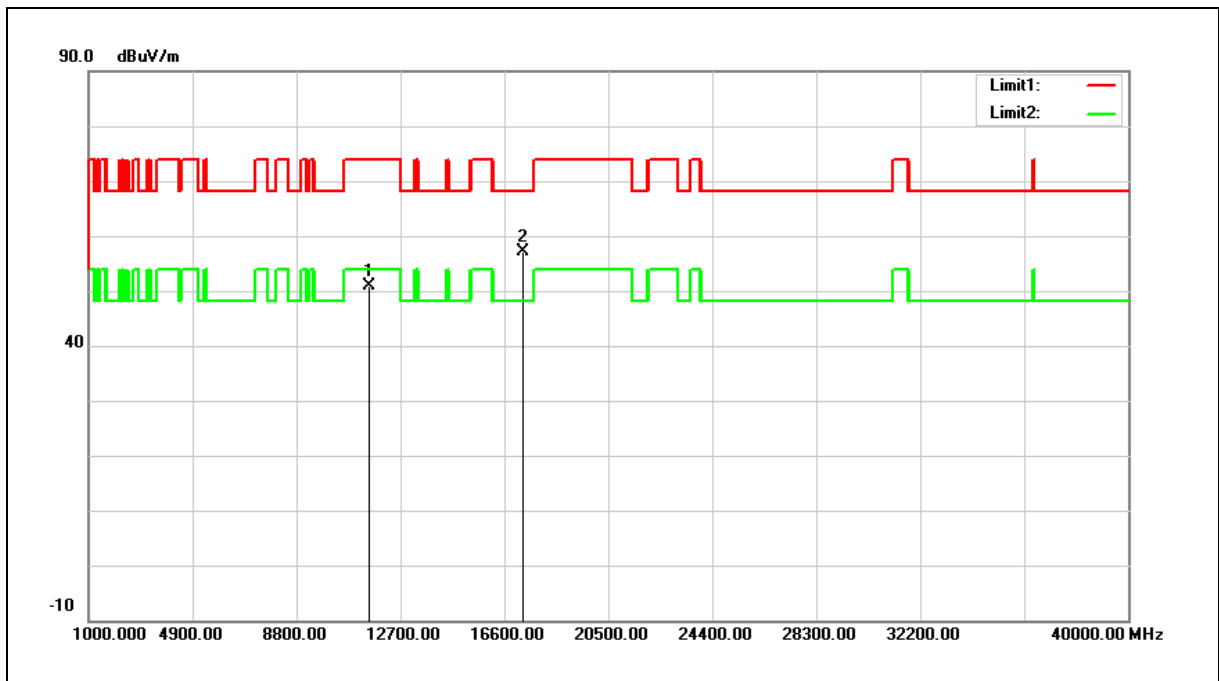
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	32.23	19.29	51.52	74.00	-22.48	peak
2	17325.000	32.18	25.30	57.48	68.20	-10.72	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5775 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



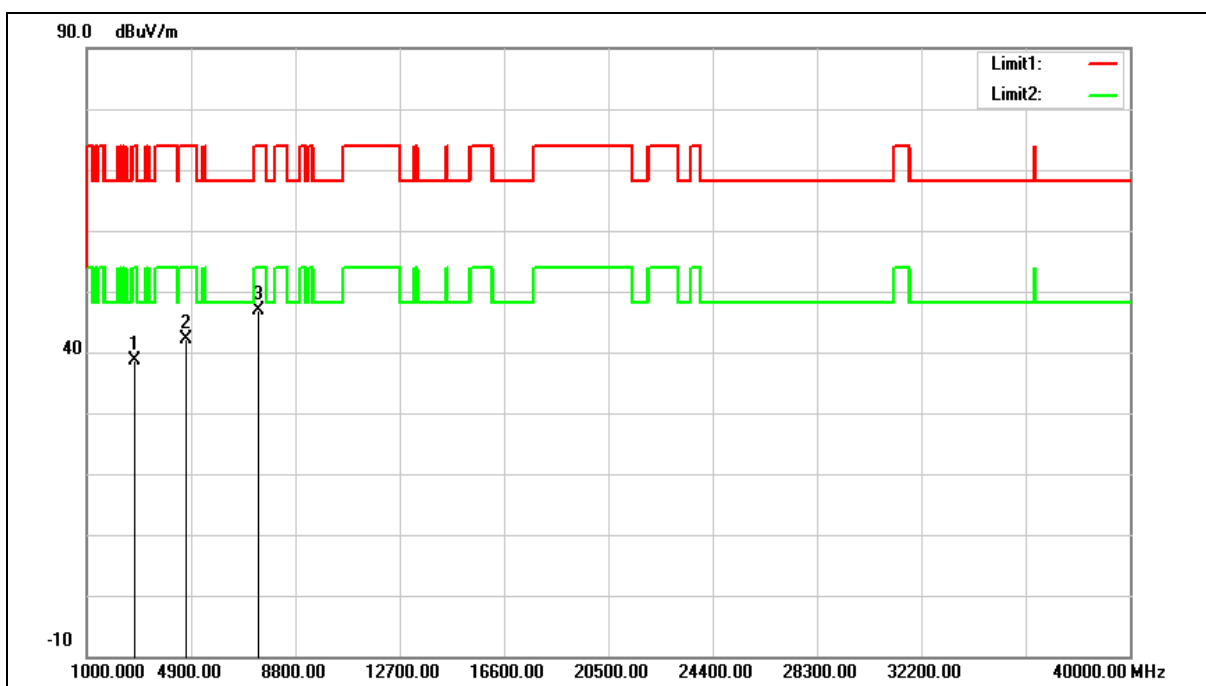
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	31.53	19.29	50.82	74.00	-23.18	peak
2	17325.000	31.88	25.30	57.18	68.20	-11.02	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Transmitter Unwanted Emissions	Power:	AC 120 V/60 Hz
Test Mode:	Simultaneous Transmitting (WLAN 2.4 +5 GHz)	Temp.(°C)/Hum. (%RH):	26(°C)/60 %RH
Ant.Polar.:	Horizontal		



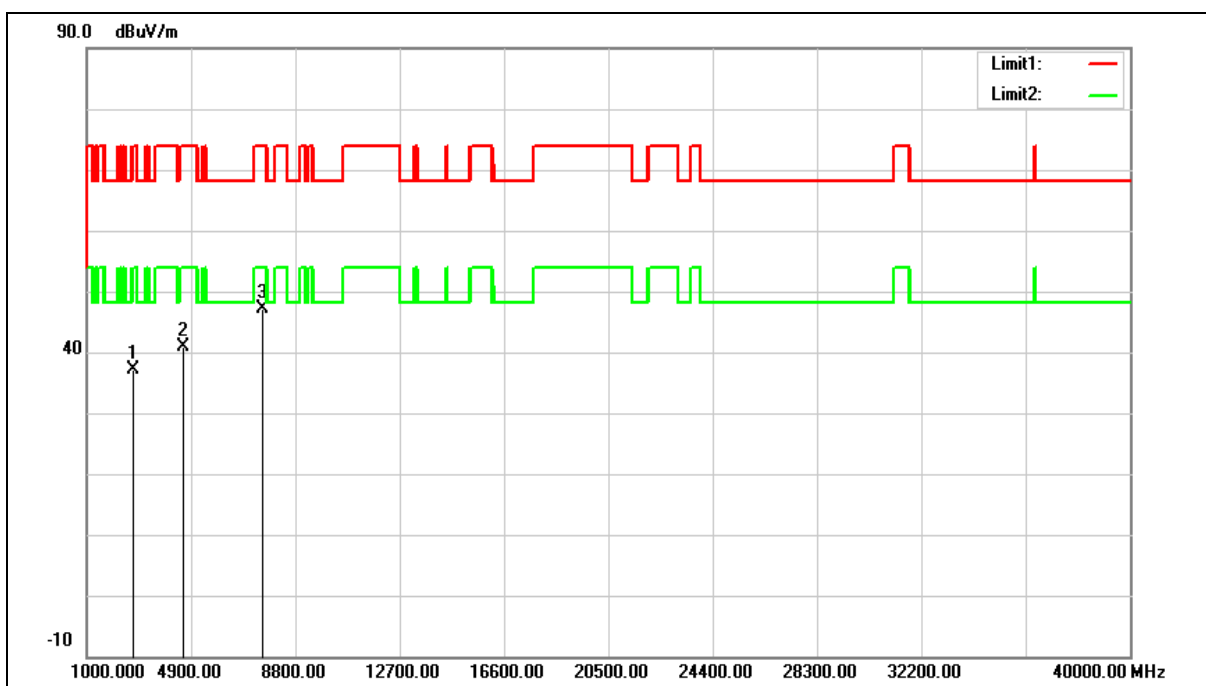
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2819.000	38.00	0.74	38.74	74.00	-35.26	peak
2	4689.000	36.66	5.50	42.16	74.00	-31.84	peak
3	7443.000	33.74	13.13	46.87	74.00	-27.13	peak

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 15.407	Test Distance:	3 m
Test item:	Transmitter Unwanted Emissions	Power:	AC 120 V/60 Hz
Test Mode:	Simultaneous Transmitting (WLAN 2.4 +5 GHz)	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2751.000	36.53	0.53	37.06	74.00	-36.94	peak
2	4621.000	35.52	5.30	40.82	74.00	-33.18	peak
3	7562.000	33.66	13.45	47.11	74.00	-26.89	peak

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

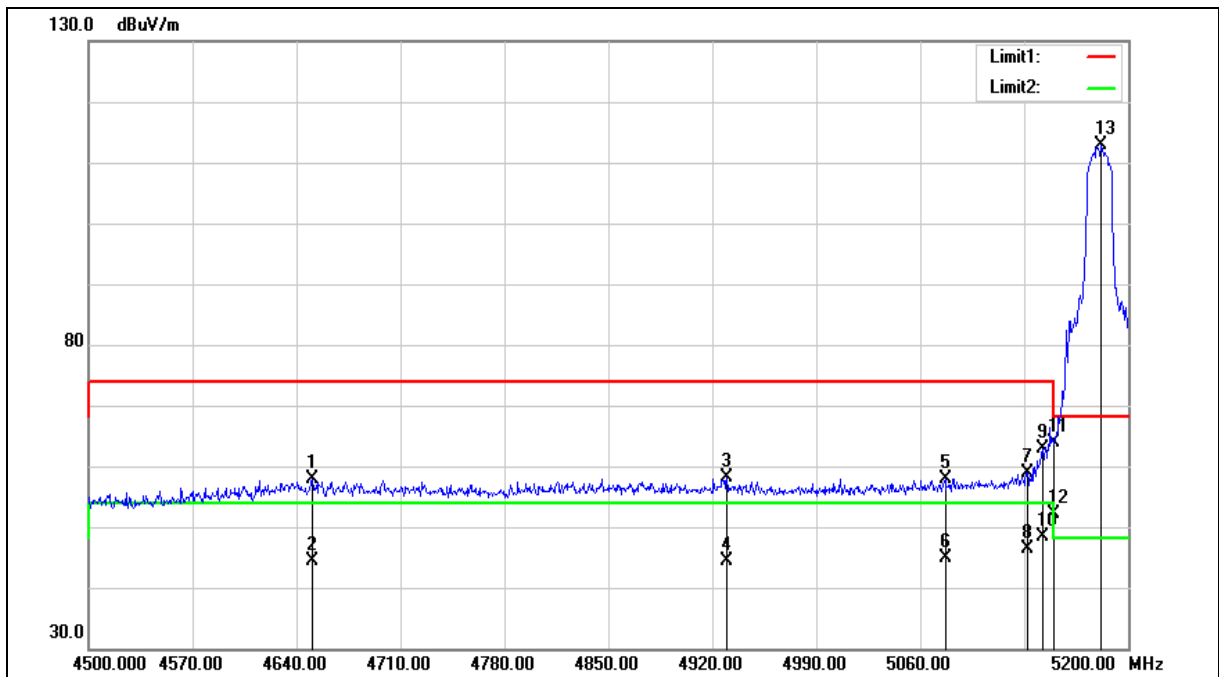
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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



Band Edge

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 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	4650.500	52.45	5.37	57.82	74.00	-16.18	peak
2	4650.500	38.94	5.37	44.31	54.00	-9.69	AVG
3	4929.800	52.01	6.20	58.21	74.00	-15.79	peak
4	4929.800	38.08	6.20	44.28	54.00	-9.72	AVG
5	5076.800	51.37	6.62	57.99	74.00	-16.01	peak
6	5076.800	38.21	6.62	44.83	54.00	-9.17	AVG
7	5132.100	52.07	6.79	58.86	74.00	-15.14	peak
8	5132.100	39.64	6.79	46.43	54.00	-7.57	AVG
9	5142.600	55.96	6.82	62.78	74.00	-11.22	peak
10	5142.600	41.47	6.82	48.29	54.00	-5.71	AVG
11	5150.000	56.92	6.84	63.76	74.00	-10.24	peak
12	5150.000	45.38	6.84	52.22	54.00	-1.78	AVG
13	5181.800	106.00	6.93	112.93	--	--	peak

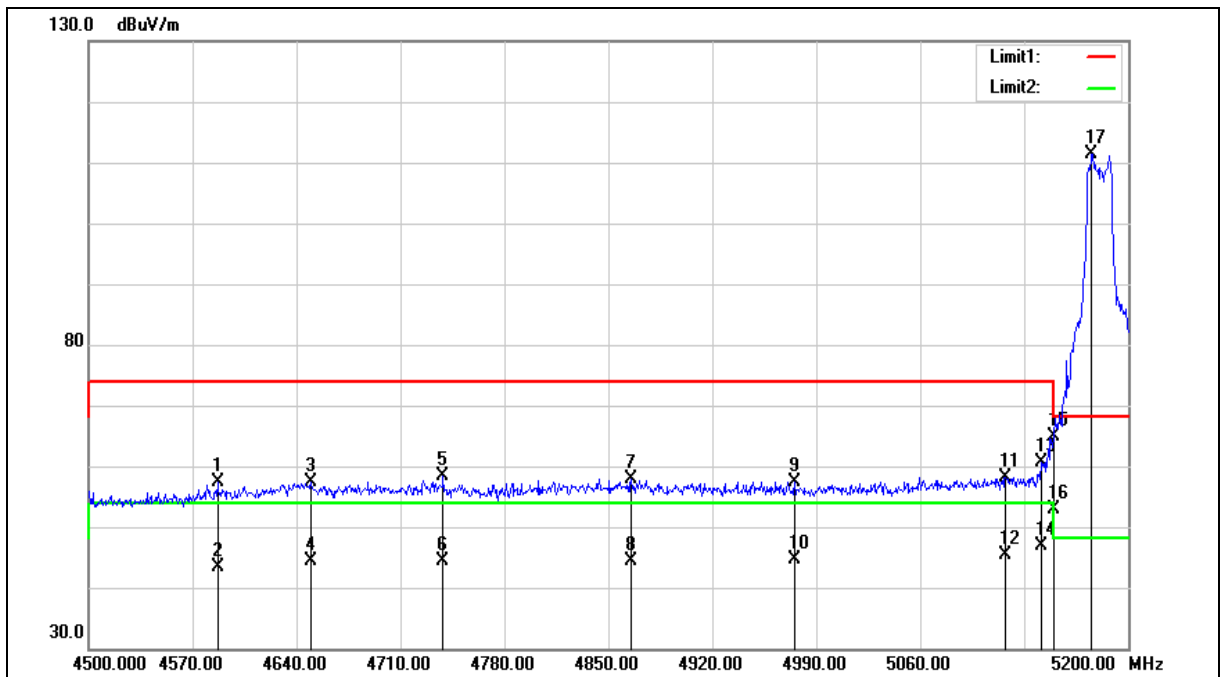
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 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	4586.800	52.10	5.19	57.29	74.00	-16.71	peak
2	4586.800	38.16	5.19	43.35	54.00	-10.65	AVG
3	4649.800	52.04	5.37	57.41	74.00	-16.59	peak
4	4649.800	39.04	5.37	44.41	54.00	-9.59	AVG
5	4738.700	52.68	5.64	58.32	74.00	-15.68	peak
6	4738.700	38.72	5.64	44.36	54.00	-9.64	AVG
7	4865.400	51.98	6.00	57.98	74.00	-16.02	peak
8	4865.400	38.40	6.00	44.40	54.00	-9.60	AVG
9	4975.300	51.15	6.34	57.49	74.00	-16.51	peak
10	4975.300	38.38	6.34	44.72	54.00	-9.28	AVG
11	5117.400	51.40	6.74	58.14	74.00	-15.86	peak
12	5117.400	38.65	6.74	45.39	54.00	-8.61	AVG
13	5141.200	53.82	6.81	60.63	74.00	-13.37	peak
14	5141.200	40.14	6.81	46.95	54.00	-7.05	AVG
15	5150.000	58.12	6.84	64.96	74.00	-9.04	peak
16	5150.000	46.00	6.84	52.84	54.00	-1.16	AVG
17	5175.500	104.43	6.92	111.35	--	--	peak

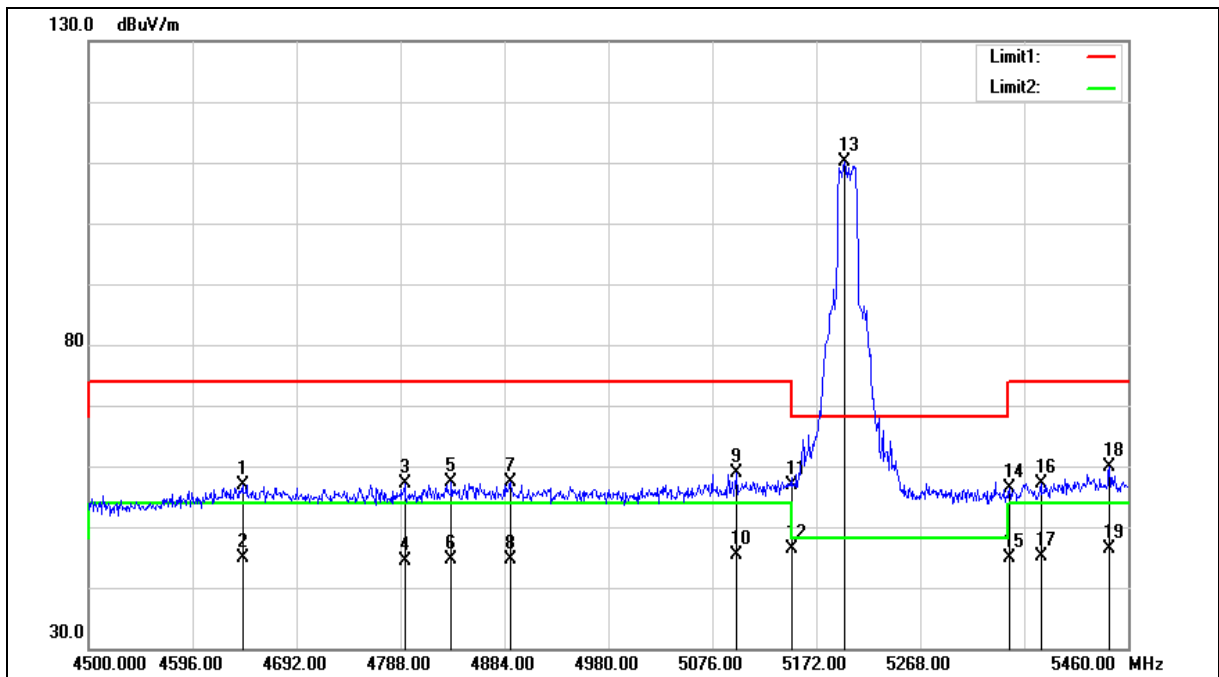
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5200 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	4642.080	51.58	5.35	56.93	74.00	-17.07	peak
2	4642.080	39.54	5.35	44.89	54.00	-9.11	AVG
3	4791.840	51.32	5.79	57.11	74.00	-16.89	peak
4	4791.840	38.62	5.79	44.41	54.00	-9.59	AVG
5	4835.040	51.46	5.92	57.38	74.00	-16.62	peak
6	4835.040	38.71	5.92	44.63	54.00	-9.37	AVG
7	4889.760	51.27	6.08	57.35	74.00	-16.65	peak
8	4889.760	38.67	6.08	44.75	54.00	-9.25	AVG
9	5098.080	52.30	6.68	58.98	74.00	-15.02	peak
10	5098.080	38.61	6.68	45.29	54.00	-8.71	AVG
11	5150.000	50.07	6.84	56.91	74.00	-17.09	peak
12	5150.000	39.50	6.84	46.34	54.00	-7.66	AVG
13	5197.920	103.14	6.98	110.12	--	--	peak
14	5350.000	49.06	7.41	56.47	74.00	-17.53	peak
15	5350.000	37.35	7.41	44.76	54.00	-9.24	AVG
16	5379.360	49.71	7.51	57.22	74.00	-16.78	peak
17	5379.360	37.72	7.51	45.23	54.00	-8.77	AVG
18	5442.720	52.17	7.68	59.85	74.00	-14.15	peak
19	5442.720	38.68	7.68	46.36	54.00	-7.64	AVG

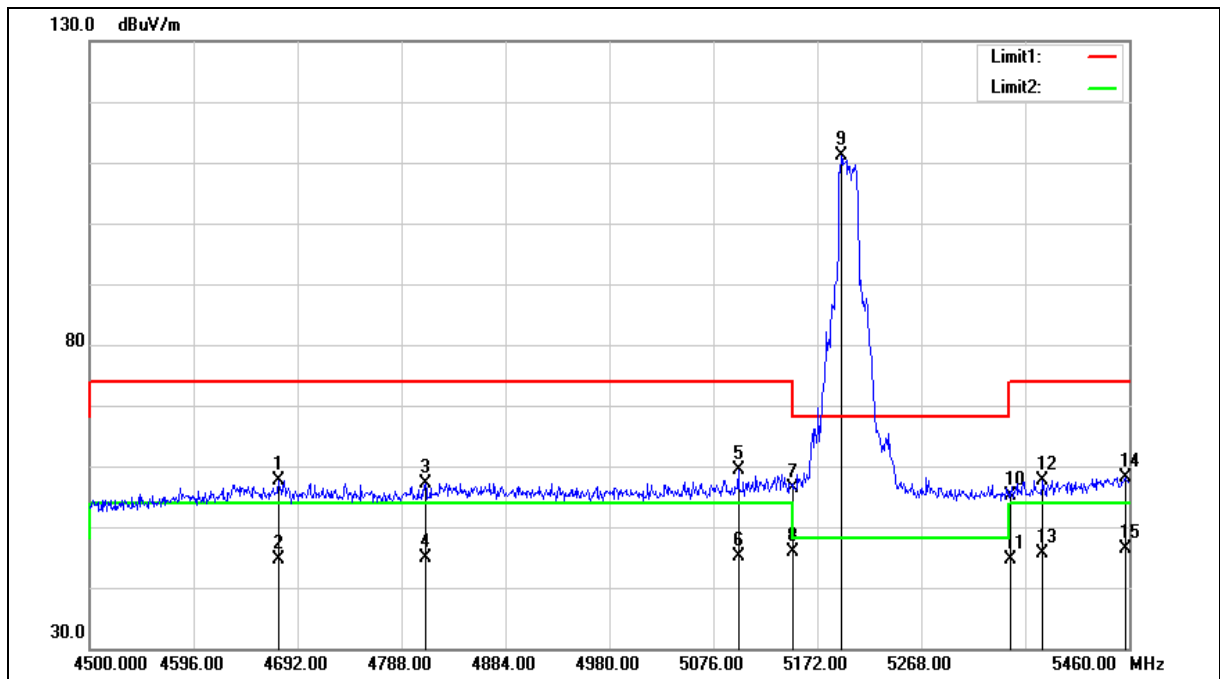
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5200 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	4674.720	52.19	5.45	57.64	74.00	-16.36	peak
2	4674.720	39.11	5.45	44.56	54.00	-9.44	AVG
3	4810.080	51.30	5.84	57.14	74.00	-16.86	peak
4	4810.080	39.05	5.84	44.89	54.00	-9.11	AVG
5	5099.040	52.60	6.68	59.28	74.00	-14.72	peak
6	5099.040	38.42	6.68	45.10	54.00	-8.90	AVG
7	5150.000	49.47	6.84	56.31	74.00	-17.69	peak
8	5150.000	39.03	6.84	45.87	54.00	-8.13	AVG
9	5194.080	104.08	6.96	111.04	--	--	peak
10	5350.000	47.81	7.41	55.22	74.00	-18.78	peak
11	5350.000	37.26	7.41	44.67	54.00	-9.33	AVG
12	5380.320	50.19	7.51	57.70	74.00	-16.30	peak
13	5380.320	38.02	7.51	45.53	54.00	-8.47	AVG
14	5457.120	50.46	7.73	58.19	74.00	-15.81	peak
15	5457.120	38.62	7.73	46.35	54.00	-7.65	AVG

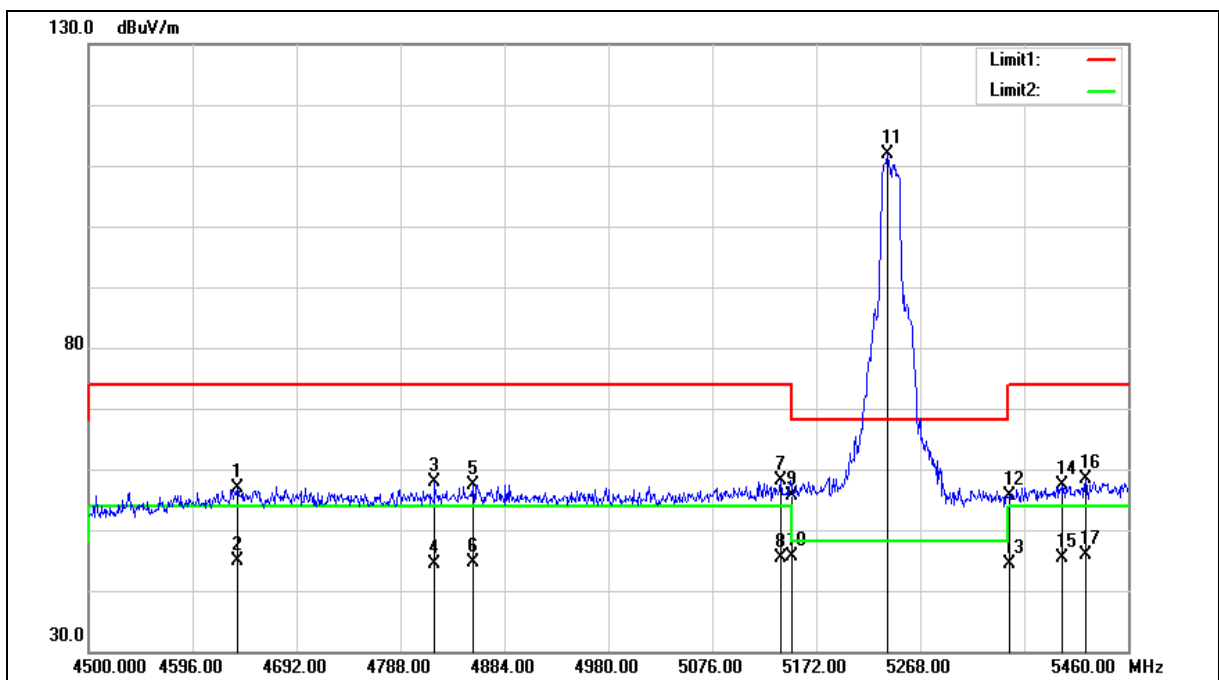
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 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	4637.280	51.47	5.34	56.81	74.00	-17.19	peak
2	4637.280	39.55	5.34	44.89	54.00	-9.11	AVG
3	4819.680	51.94	5.87	57.81	74.00	-16.19	peak
4	4819.680	38.62	5.87	44.49	54.00	-9.51	AVG
5	4855.200	51.50	5.98	57.48	74.00	-16.52	peak
6	4855.200	38.59	5.98	44.57	54.00	-9.43	AVG
7	5139.360	51.35	6.81	58.16	74.00	-15.84	peak
8	5139.360	38.65	6.81	45.46	54.00	-8.54	AVG
9	5150.000	48.85	6.84	55.69	74.00	-18.31	peak
10	5150.000	38.87	6.84	45.71	54.00	-8.29	AVG
11	5237.280	104.90	7.09	111.99	--	--	peak
12	5350.000	48.10	7.41	55.51	74.00	-18.49	peak
13	5350.000	36.95	7.41	44.36	54.00	-9.64	AVG
14	5398.560	49.87	7.56	57.43	74.00	-16.57	peak
15	5398.560	37.75	7.56	45.31	54.00	-8.69	AVG
16	5420.640	50.84	7.62	58.46	74.00	-15.54	peak
17	5420.640	38.24	7.62	45.86	54.00	-8.14	AVG

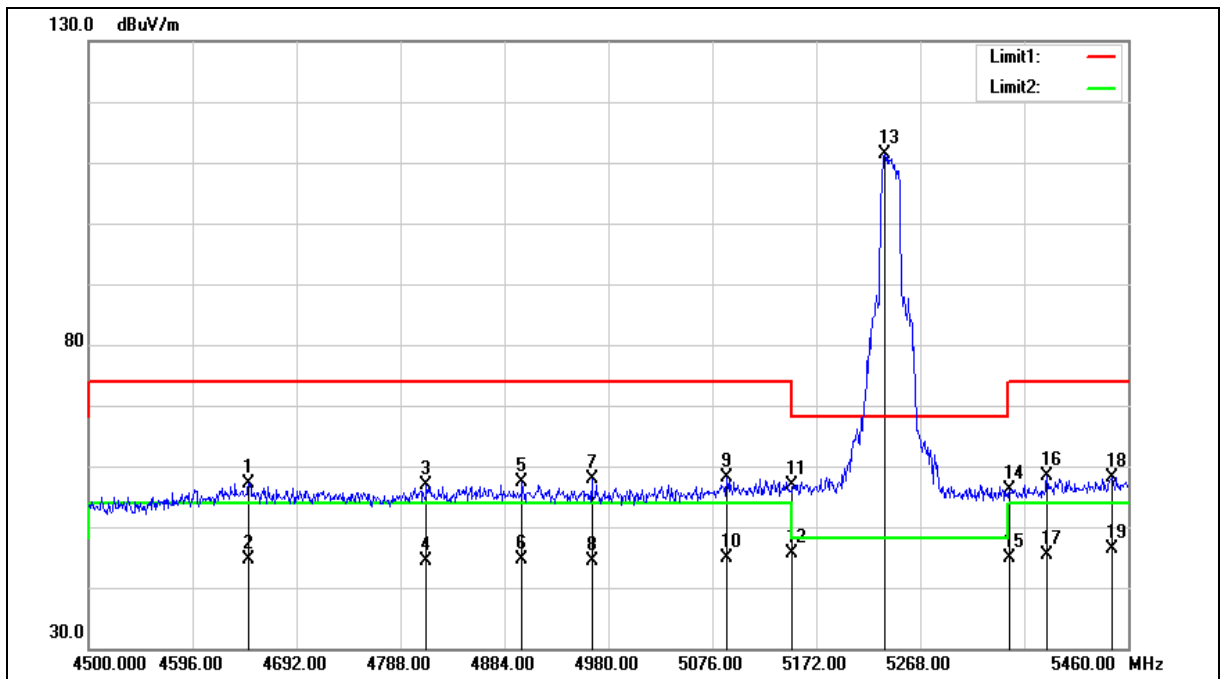
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

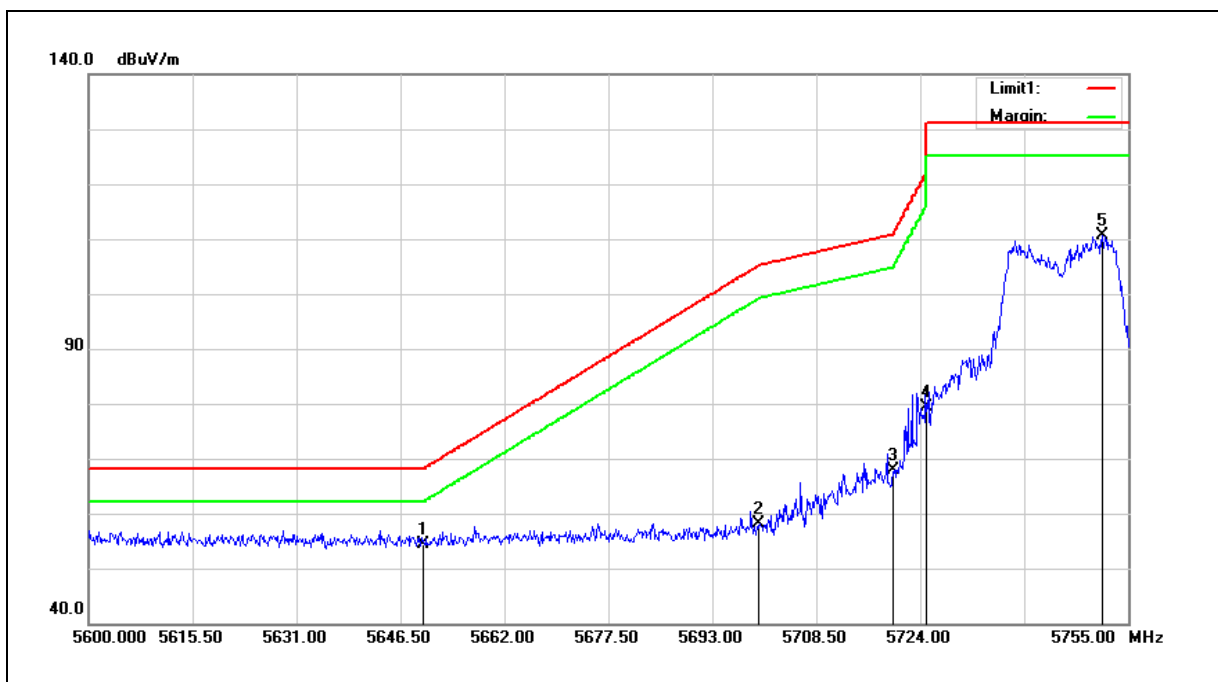
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4647.840	51.73	5.37	57.10	74.00	-16.90	peak
2	4647.840	39.26	5.37	44.63	54.00	-9.37	AVG
3	4812.000	51.04	5.85	56.89	74.00	-17.11	peak
4	4812.000	38.62	5.85	44.47	54.00	-9.53	AVG
5	4900.320	51.28	6.10	57.38	74.00	-16.62	peak
6	4900.320	38.43	6.10	44.53	54.00	-9.47	AVG
7	4964.640	51.49	6.29	57.78	74.00	-16.22	peak
8	4964.640	38.07	6.29	44.36	54.00	-9.64	AVG
9	5089.440	51.41	6.66	58.07	74.00	-15.93	peak
10	5089.440	38.27	6.66	44.93	54.00	-9.07	AVG
11	5150.000	50.01	6.84	56.85	74.00	-17.15	peak
12	5150.000	38.67	6.84	45.51	54.00	-8.49	AVG
13	5235.360	104.35	7.09	111.44	--	--	peak
14	5350.000	48.78	7.41	56.19	74.00	-17.81	peak
15	5350.000	37.42	7.41	44.83	54.00	-9.17	AVG
16	5385.120	50.74	7.53	58.27	74.00	-15.73	peak
17	5385.120	37.83	7.53	45.36	54.00	-8.64	AVG
18	5445.600	50.46	7.70	58.16	74.00	-15.84	peak
19	5445.600	38.61	7.70	46.31	54.00	-7.69	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



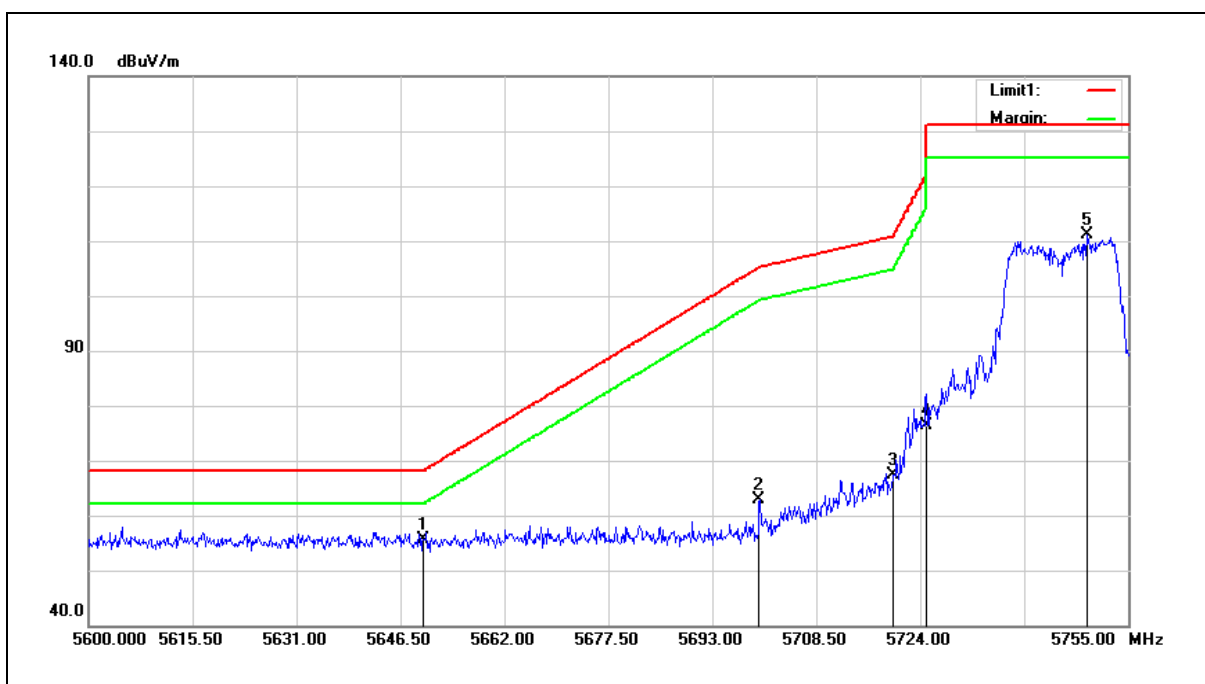
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.15	8.16	54.31	68.20	-13.89	peak
2	5700.000	49.77	8.26	58.03	105.20	-47.17	peak
3	5720.000	59.60	8.30	67.90	110.80	-42.90	peak
4	5725.000	71.16	8.31	79.47	122.20	-42.73	peak
5	5751.125	102.17	8.36	110.53	--	--	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5745 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	5650.000	47.38	8.16	55.54	68.20	-12.66	peak
2	5700.000	54.56	8.26	62.82	105.20	-42.38	peak
3	5720.000	59.05	8.30	67.35	110.80	-43.45	peak
4	5725.000	68.15	8.31	76.46	122.20	-45.74	peak
5	5748.955	102.87	8.35	111.22	--	--	peak

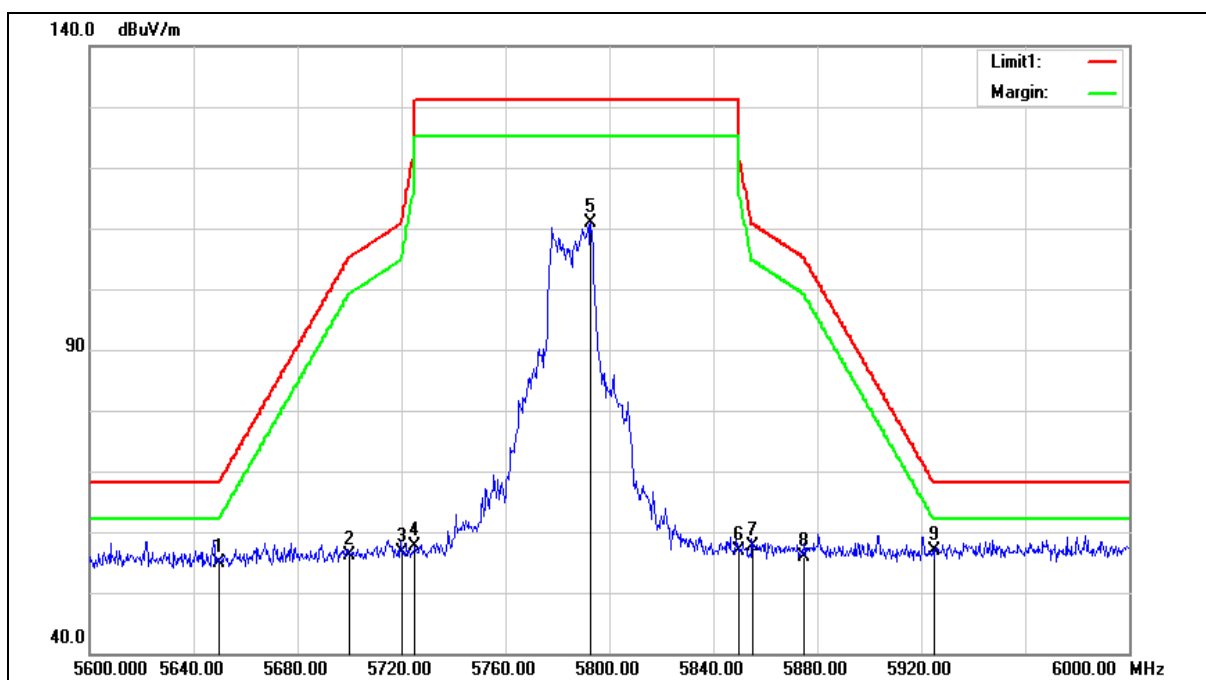
Note:1.Result (dBUV/m) = Correct Factor (dB/m) + Reading(dBUV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

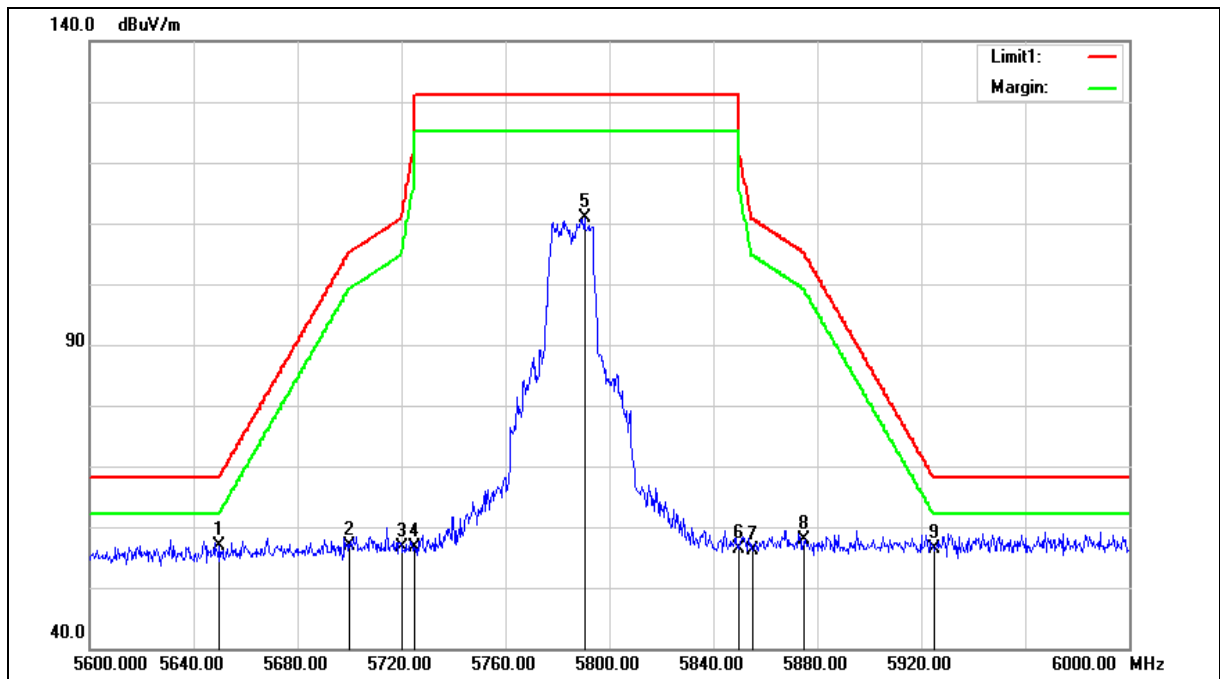
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.73	8.16	54.89	68.20	-13.31	peak
2	5700.000	47.87	8.26	56.13	105.20	-49.07	peak
3	5720.000	48.26	8.30	56.56	110.80	-54.24	peak
4	5725.000	49.31	8.31	57.62	122.20	-64.58	peak
5	5792.800	102.45	8.44	110.89	--	--	peak
6	5850.000	48.34	8.55	56.89	122.20	-65.31	peak
7	5855.000	49.15	8.56	57.71	110.80	-53.09	peak
8	5875.000	47.39	8.61	56.00	105.20	-49.20	peak
9	5925.000	48.20	8.71	56.91	68.20	-11.29	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

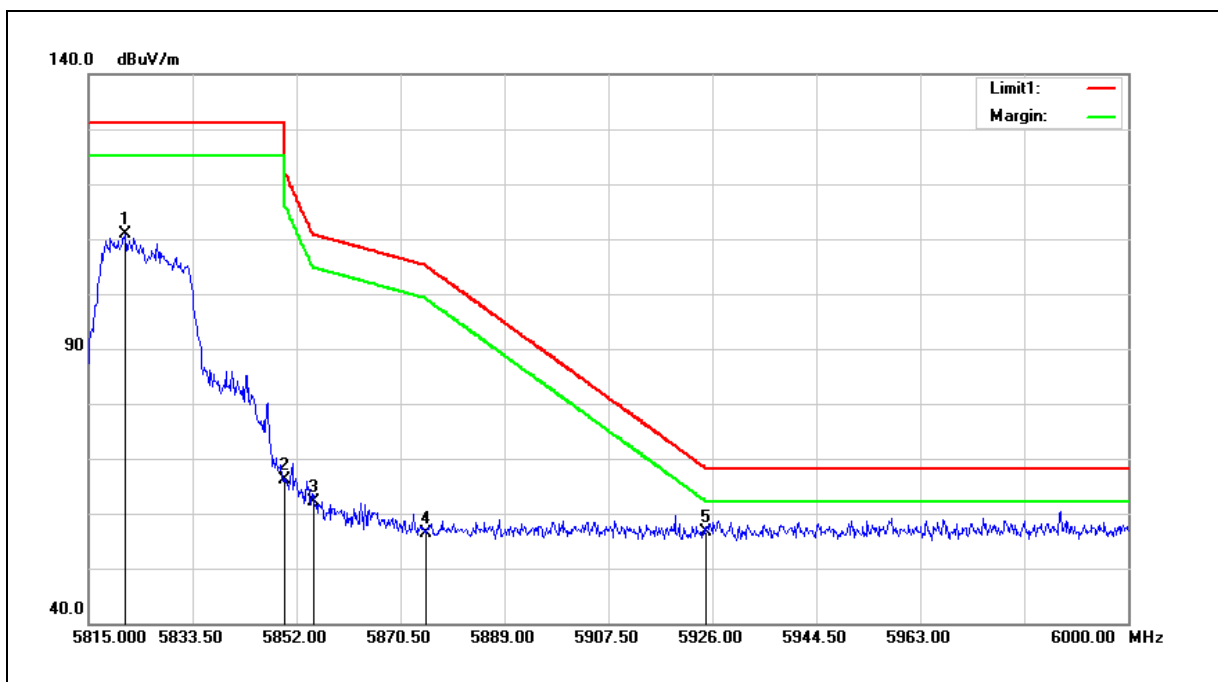
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	48.62	8.16	56.78	68.20	-11.42	peak
2	5700.000	48.56	8.26	56.82	105.20	-48.38	peak
3	5720.000	48.32	8.30	56.62	110.80	-54.18	peak
4	5725.000	48.37	8.31	56.68	122.20	-65.52	peak
5	5790.400	102.38	8.43	110.81	--	--	peak
6	5850.000	47.92	8.55	56.47	122.20	-65.73	peak
7	5855.000	47.50	8.56	56.06	110.80	-54.74	peak
8	5875.000	49.26	8.61	57.87	105.20	-47.33	peak
9	5925.000	47.64	8.71	56.35	68.20	-11.85	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



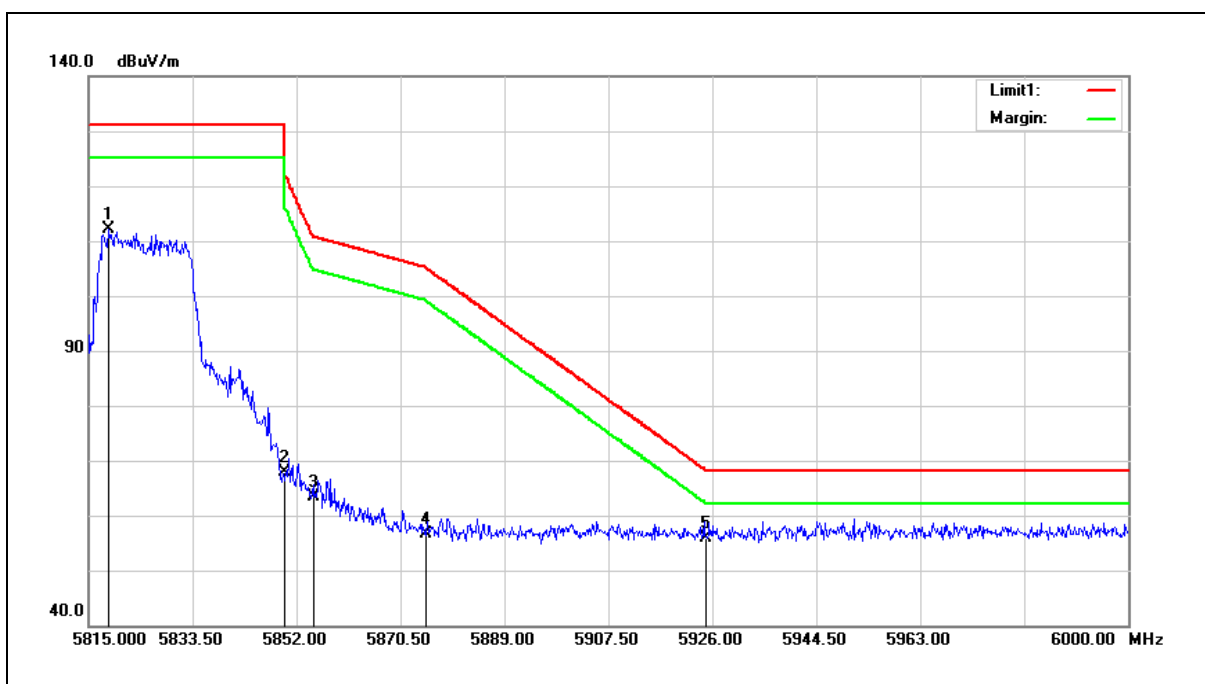
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5821.475	102.33	8.50	110.83	--	--	peak
2	5850.000	57.66	8.55	66.21	122.20	-55.99	peak
3	5855.000	53.65	8.56	62.21	110.80	-48.59	peak
4	5875.000	47.87	8.61	56.48	105.20	-48.72	peak
5	5925.000	47.90	8.71	56.61	68.20	-11.59	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5825 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	5818.515	103.61	8.49	112.10	--	--	peak
2	5850.000	59.27	8.55	67.82	122.20	-54.38	peak
3	5855.000	54.71	8.56	63.27	110.80	-47.53	peak
4	5875.000	48.12	8.61	56.73	105.20	-48.47	peak
5	5925.000	47.22	8.71	55.93	68.20	-12.27	peak

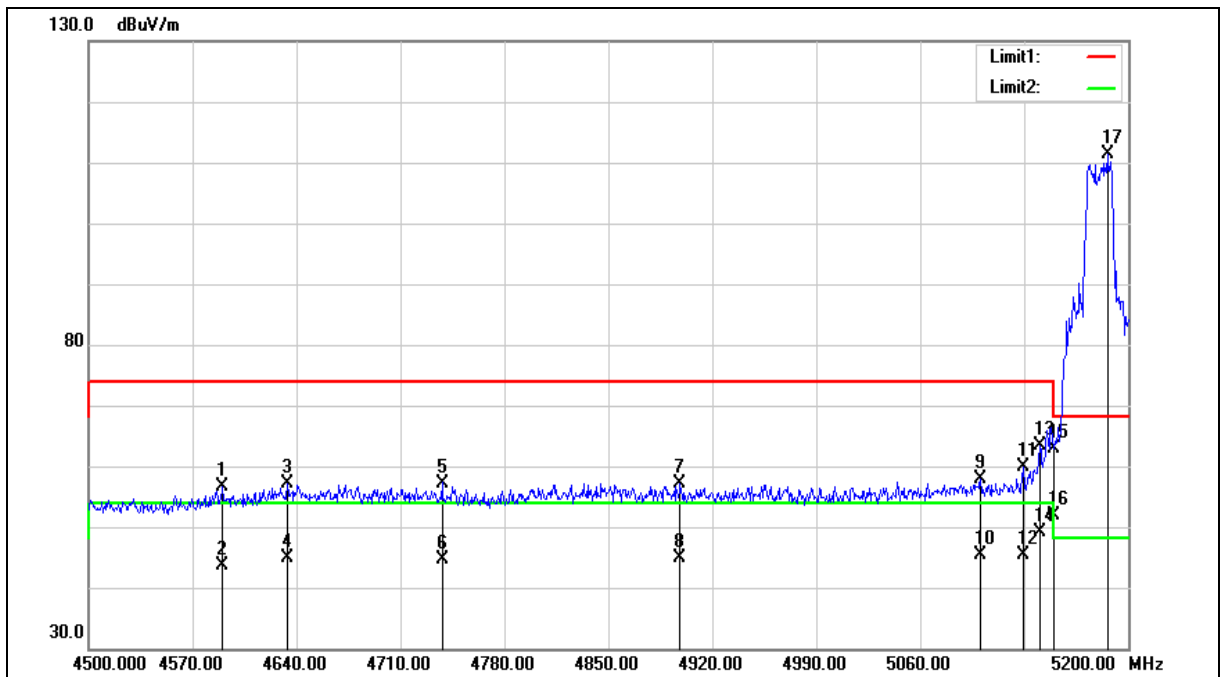
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 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	4590.300	51.43	5.20	56.63	74.00	-17.37	peak
2	4590.300	38.44	5.20	43.64	54.00	-10.36	AVG
3	4633.700	51.91	5.32	57.23	74.00	-16.77	peak
4	4633.700	39.51	5.32	44.83	54.00	-9.17	AVG
5	4738.000	51.62	5.63	57.25	74.00	-16.75	peak
6	4738.000	39.12	5.63	44.75	54.00	-9.25	AVG
7	4898.300	51.09	6.10	57.19	74.00	-16.81	peak
8	4898.300	38.69	6.10	44.79	54.00	-9.21	AVG
9	5100.600	51.28	6.69	57.97	74.00	-16.03	peak
10	5100.600	38.70	6.69	45.39	54.00	-8.61	AVG
11	5129.300	53.18	6.78	59.96	74.00	-14.04	peak
12	5129.300	38.68	6.78	45.46	54.00	-8.54	AVG
13	5140.500	56.69	6.81	63.50	74.00	-10.50	peak
14	5140.500	42.33	6.81	49.14	54.00	-4.86	AVG
15	5150.000	55.95	6.84	62.79	74.00	-11.21	peak
16	5150.000	45.09	6.84	51.93	54.00	-2.07	AVG
17	5186.000	104.44	6.95	111.39	--	--	peak

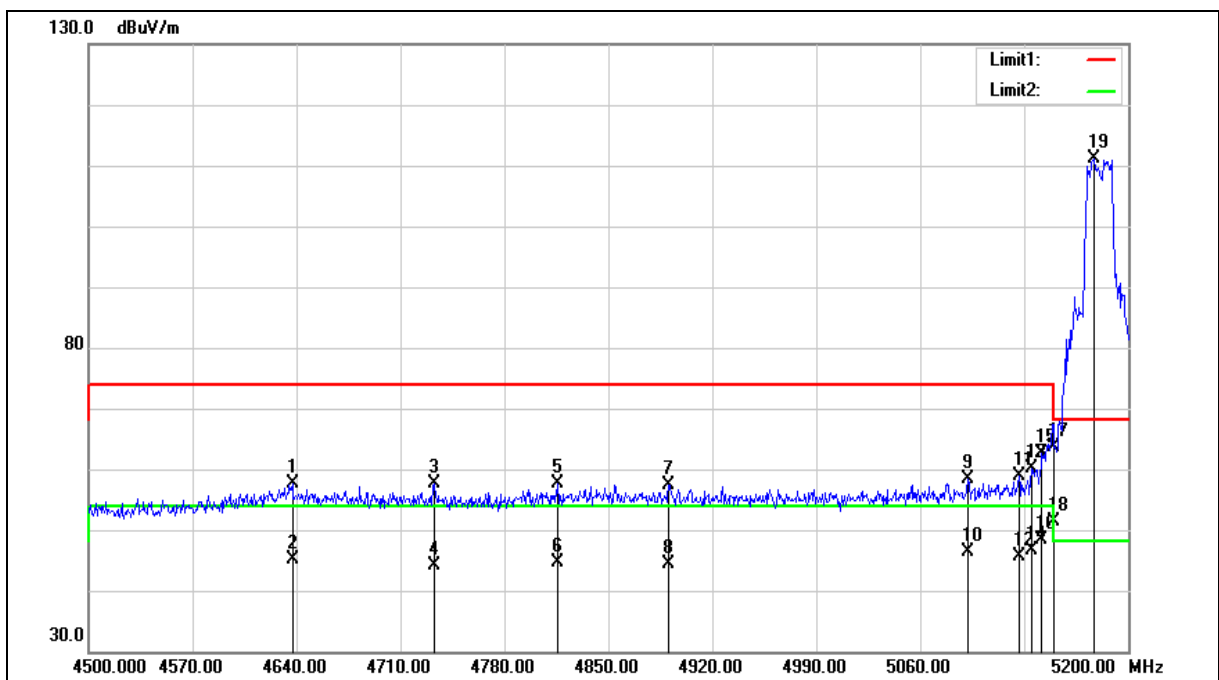
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 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	4637.200	52.32	5.34	57.66	74.00	-16.34	peak
2	4637.200	39.67	5.34	45.01	54.00	-8.99	AVG
3	4732.400	52.05	5.62	57.67	74.00	-16.33	peak
4	4732.400	38.63	5.62	44.25	54.00	-9.75	AVG
5	4815.700	51.85	5.86	57.71	74.00	-16.29	peak
6	4815.700	38.73	5.86	44.59	54.00	-9.41	AVG
7	4890.600	51.37	6.08	57.45	74.00	-16.55	peak
8	4890.600	38.37	6.08	44.45	54.00	-9.55	AVG
9	5092.200	51.69	6.66	58.35	74.00	-15.65	peak
10	5092.200	39.73	6.66	46.39	54.00	-7.61	AVG
11	5126.500	51.99	6.78	58.77	74.00	-15.23	peak
12	5126.500	38.86	6.78	45.64	54.00	-8.36	AVG
13	5134.900	53.36	6.79	60.15	74.00	-13.85	peak
14	5134.900	39.91	6.79	46.70	54.00	-7.30	AVG
15	5141.900	55.91	6.81	62.72	74.00	-11.28	peak
16	5141.900	41.47	6.81	48.28	54.00	-5.72	AVG
17	5150.000	56.89	6.84	63.73	74.00	-10.27	peak
18	5150.000	44.53	6.84	51.37	54.00	-2.63	AVG
19	5176.900	104.24	6.92	111.16	--	--	peak

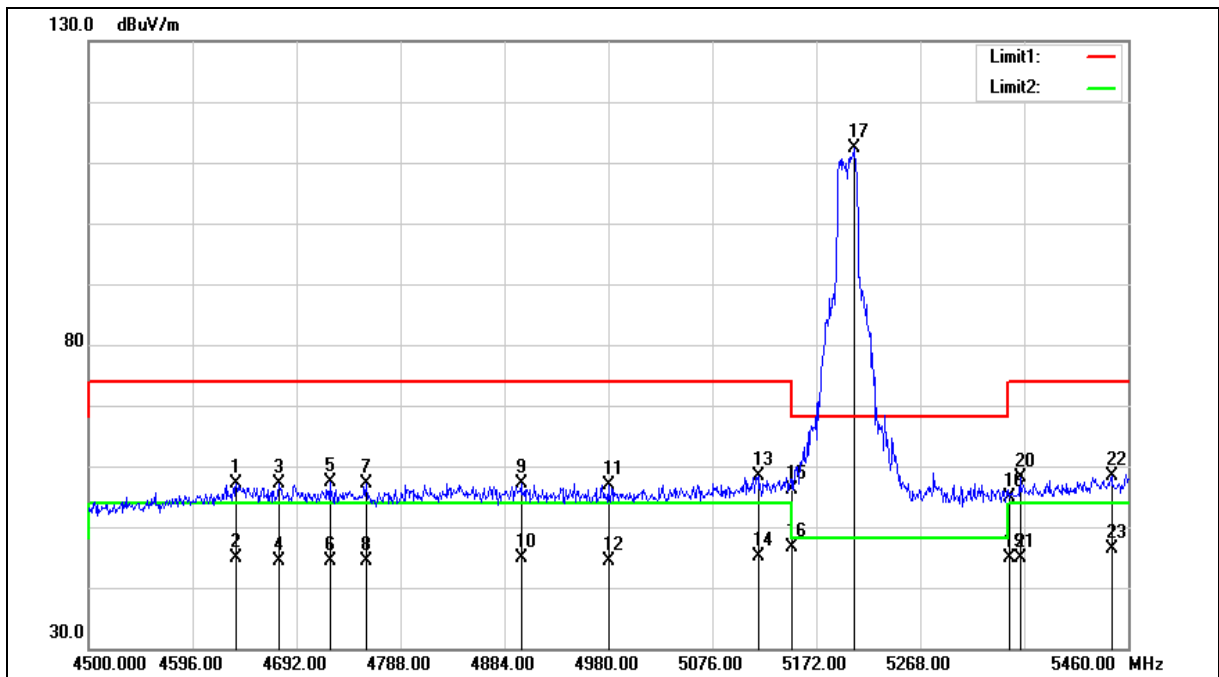
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5200 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	4636.320	51.81	5.34	57.15	74.00	-16.85	peak
2	4636.320	39.45	5.34	44.79	54.00	-9.21	AVG
3	4675.680	51.71	5.46	57.17	74.00	-16.83	peak
4	4675.680	39.00	5.46	44.46	54.00	-9.54	AVG
5	4722.720	51.80	5.59	57.39	74.00	-16.61	peak
6	4722.720	38.71	5.59	44.30	54.00	-9.70	AVG
7	4756.320	51.37	5.68	57.05	74.00	-16.95	peak
8	4756.320	38.59	5.68	44.27	54.00	-9.73	AVG
9	4899.360	50.95	6.10	57.05	74.00	-16.95	peak
10	4899.360	38.66	6.10	44.76	54.00	-9.24	AVG
11	4980.000	50.60	6.35	56.95	74.00	-17.05	peak
12	4980.000	38.04	6.35	44.39	54.00	-9.61	AVG
13	5118.240	51.61	6.74	58.35	74.00	-15.65	peak
14	5118.240	38.49	6.74	45.23	54.00	-8.77	AVG
15	5150.000	49.33	6.84	56.17	74.00	-17.83	peak
16	5150.000	39.79	6.84	46.63	54.00	-7.37	AVG
17	5207.520	105.43	7.01	112.44	--	--	peak
18	5350.000	47.56	7.41	54.97	74.00	-19.03	peak
19	5350.000	37.39	7.41	44.80	54.00	-9.20	AVG
20	5360.160	50.58	7.44	58.02	74.00	-15.98	peak
21	5360.160	37.45	7.44	44.89	54.00	-9.11	AVG
22	5444.640	50.74	7.69	58.43	74.00	-15.57	peak
23	5444.640	38.67	7.69	46.36	54.00	-7.64	AVG

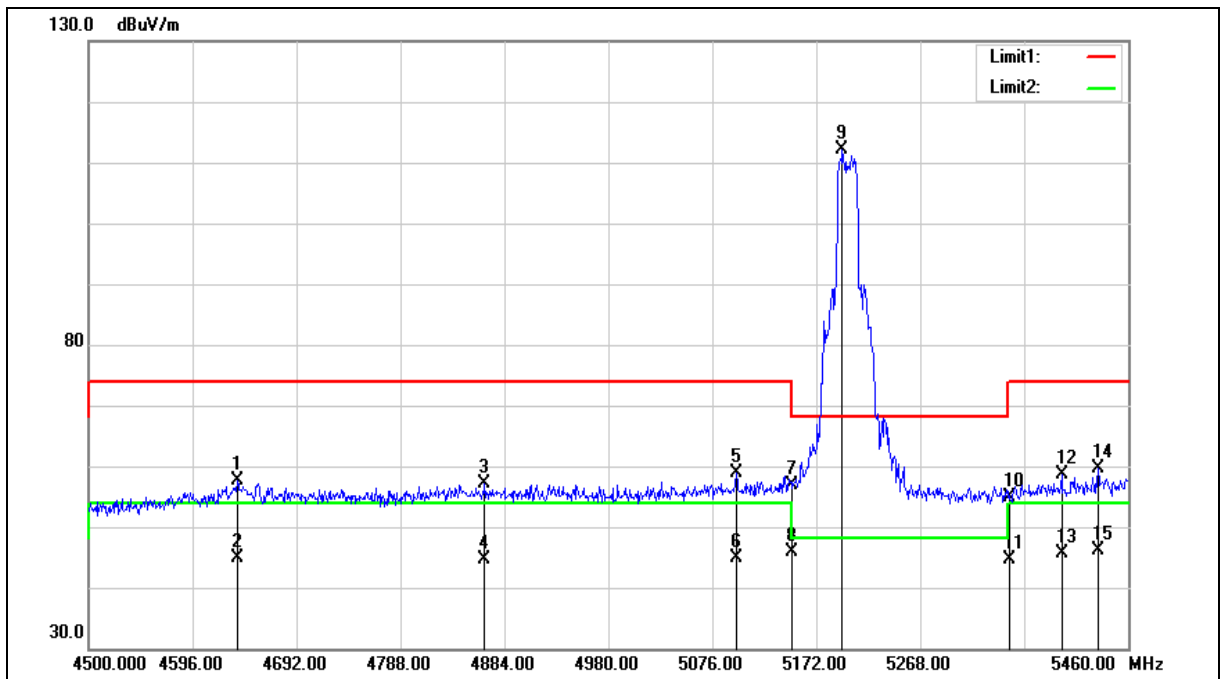
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5200 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	4637.280	52.17	5.34	57.51	74.00	-16.49	peak
2	4637.280	39.64	5.34	44.98	54.00	-9.02	AVG
3	4865.760	51.19	6.00	57.19	74.00	-16.81	peak
4	4865.760	38.56	6.00	44.56	54.00	-9.44	AVG
5	5098.080	52.16	6.68	58.84	74.00	-15.16	peak
6	5098.080	38.31	6.68	44.99	54.00	-9.01	AVG
7	5150.000	50.01	6.84	56.85	74.00	-17.15	peak
8	5150.000	39.14	6.84	45.98	54.00	-8.02	AVG
9	5196.000	105.09	6.97	112.06	--	--	peak
10	5350.000	47.48	7.41	54.89	74.00	-19.11	peak
11	5350.000	37.31	7.41	44.72	54.00	-9.28	AVG
12	5398.560	51.17	7.56	58.73	74.00	-15.27	peak
13	5398.560	38.07	7.56	45.63	54.00	-8.37	AVG
14	5432.160	51.89	7.65	59.54	74.00	-14.46	peak
15	5432.160	38.47	7.65	46.12	54.00	-7.88	AVG

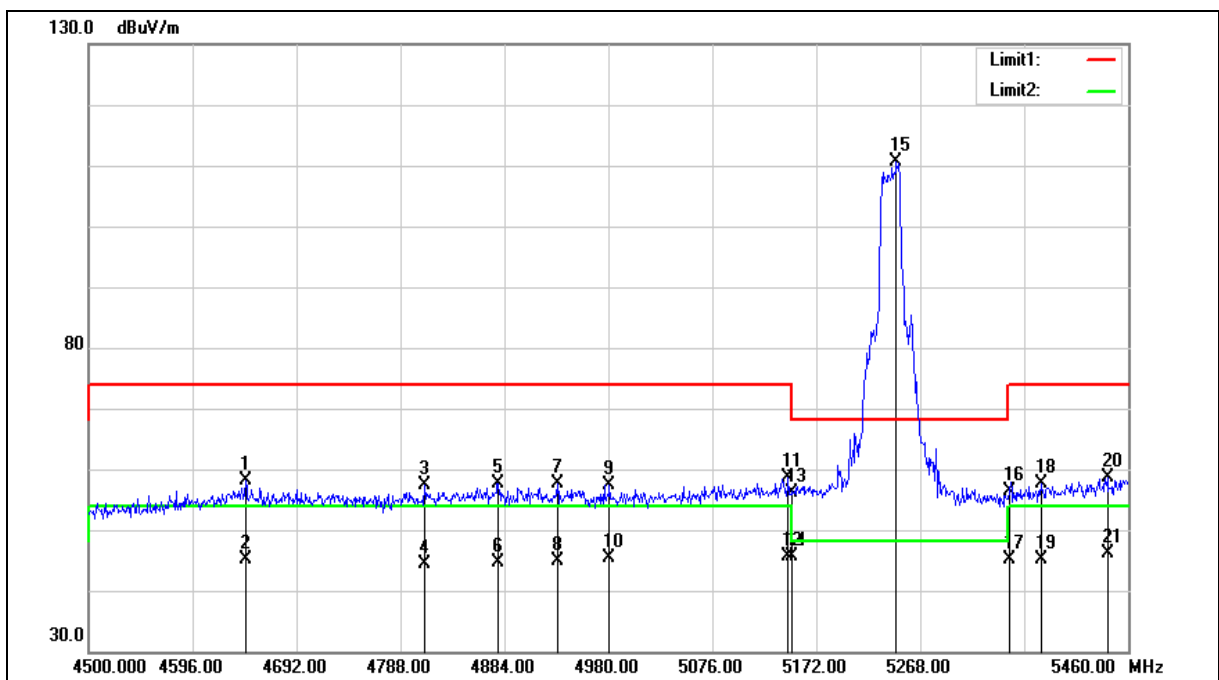
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 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	4644.960	52.72	5.36	58.08	74.00	-15.92	peak
2	4644.960	39.70	5.36	45.06	54.00	-8.94	AVG
3	4810.080	51.59	5.84	57.43	74.00	-16.57	peak
4	4810.080	38.55	5.84	44.39	54.00	-9.61	AVG
5	4878.240	51.61	6.04	57.65	74.00	-16.35	peak
6	4878.240	38.65	6.04	44.69	54.00	-9.31	AVG
7	4932.960	51.51	6.20	57.71	74.00	-16.29	peak
8	4932.960	38.59	6.20	44.79	54.00	-9.21	AVG
9	4980.960	50.99	6.35	57.34	74.00	-16.66	peak
10	4980.960	38.99	6.35	45.34	54.00	-8.66	AVG
11	5146.080	51.76	6.83	58.59	74.00	-15.41	peak
12	5146.080	38.86	6.83	45.69	54.00	-8.31	AVG
13	5150.000	49.25	6.84	56.09	74.00	-17.91	peak
14	5150.000	38.89	6.84	45.73	54.00	-8.27	AVG
15	5245.920	103.45	7.12	110.57	--	--	peak
16	5350.000	48.98	7.41	56.39	74.00	-17.61	peak
17	5350.000	37.60	7.41	45.01	54.00	-8.99	AVG
18	5379.360	50.06	7.51	57.57	74.00	-16.43	peak
19	5379.360	37.62	7.51	45.13	54.00	-8.87	AVG
20	5440.800	50.84	7.68	58.52	74.00	-15.48	peak
21	5440.800	38.56	7.68	46.24	54.00	-7.76	AVG

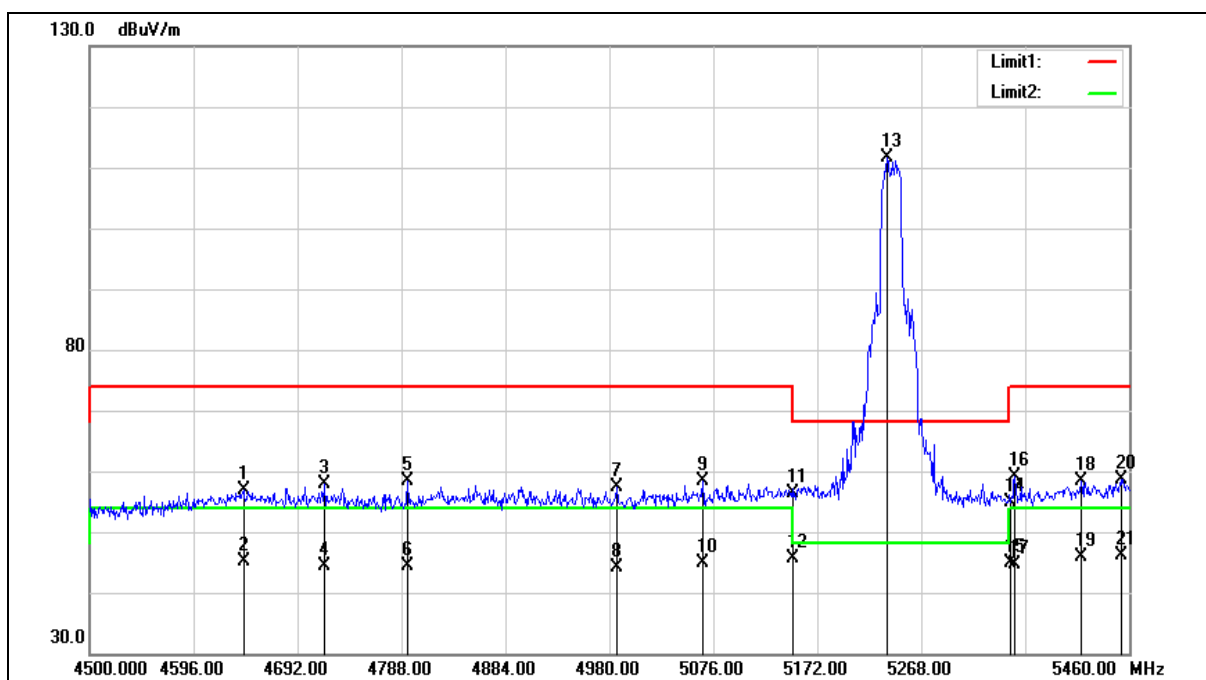
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

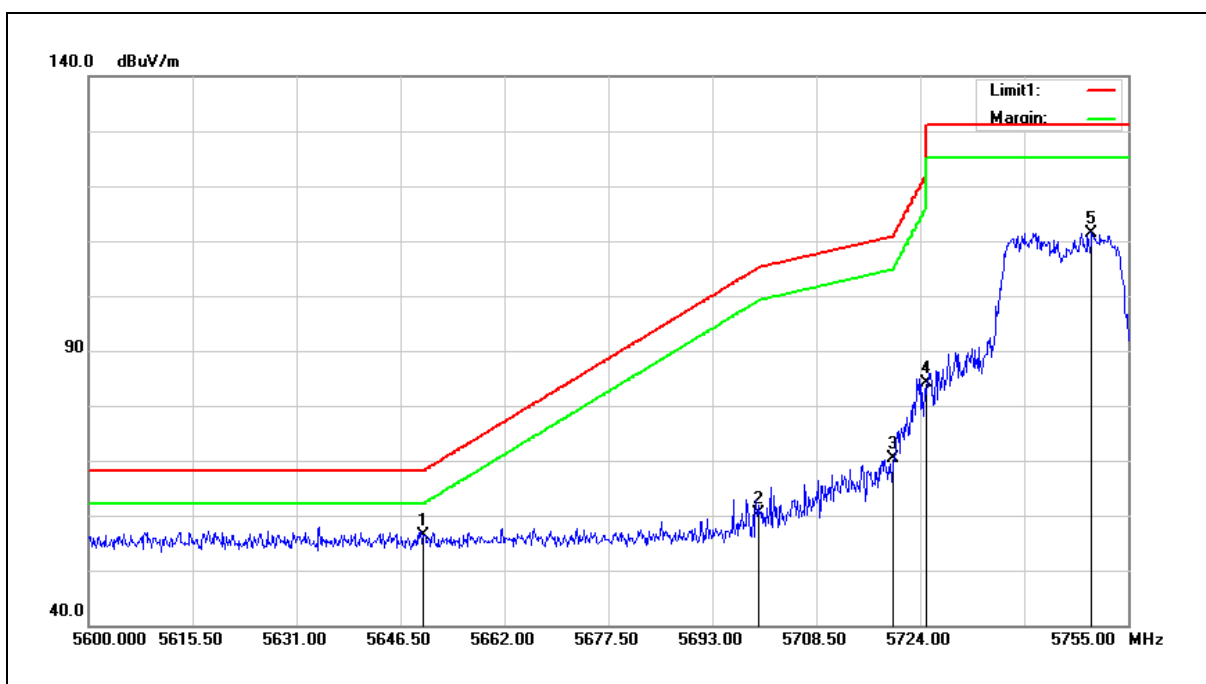
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4642.080	51.52	5.35	56.87	74.00	-17.13	peak
2	4642.080	39.75	5.35	45.10	54.00	-8.90	AVG
3	4716.960	52.25	5.57	57.82	74.00	-16.18	peak
4	4716.960	38.69	5.57	44.26	54.00	-9.74	AVG
5	4793.760	52.48	5.80	58.28	74.00	-15.72	peak
6	4793.760	38.52	5.80	44.32	54.00	-9.68	AVG
7	4986.720	51.13	6.36	57.49	74.00	-16.51	peak
8	4986.720	37.87	6.36	44.23	54.00	-9.77	AVG
9	5066.400	51.73	6.59	58.32	74.00	-15.68	peak
10	5066.400	38.23	6.59	44.82	54.00	-9.18	AVG
11	5150.000	49.64	6.84	56.48	74.00	-17.52	peak
12	5150.000	38.69	6.84	45.53	54.00	-8.47	AVG
13	5236.320	104.58	7.09	111.67	--	--	peak
14	5350.000	47.47	7.41	54.88	74.00	-19.12	peak
15	5350.000	37.50	7.41	44.91	54.00	-9.09	AVG
16	5354.400	51.63	7.42	59.05	74.00	-14.95	peak
17	5354.400	37.14	7.42	44.56	54.00	-9.44	AVG
18	5415.840	50.80	7.61	58.41	74.00	-15.59	peak
19	5415.840	38.15	7.61	45.76	54.00	-8.24	AVG
20	5453.280	51.00	7.71	58.71	74.00	-15.29	peak
21	5453.280	38.53	7.71	46.24	54.00	-7.76	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



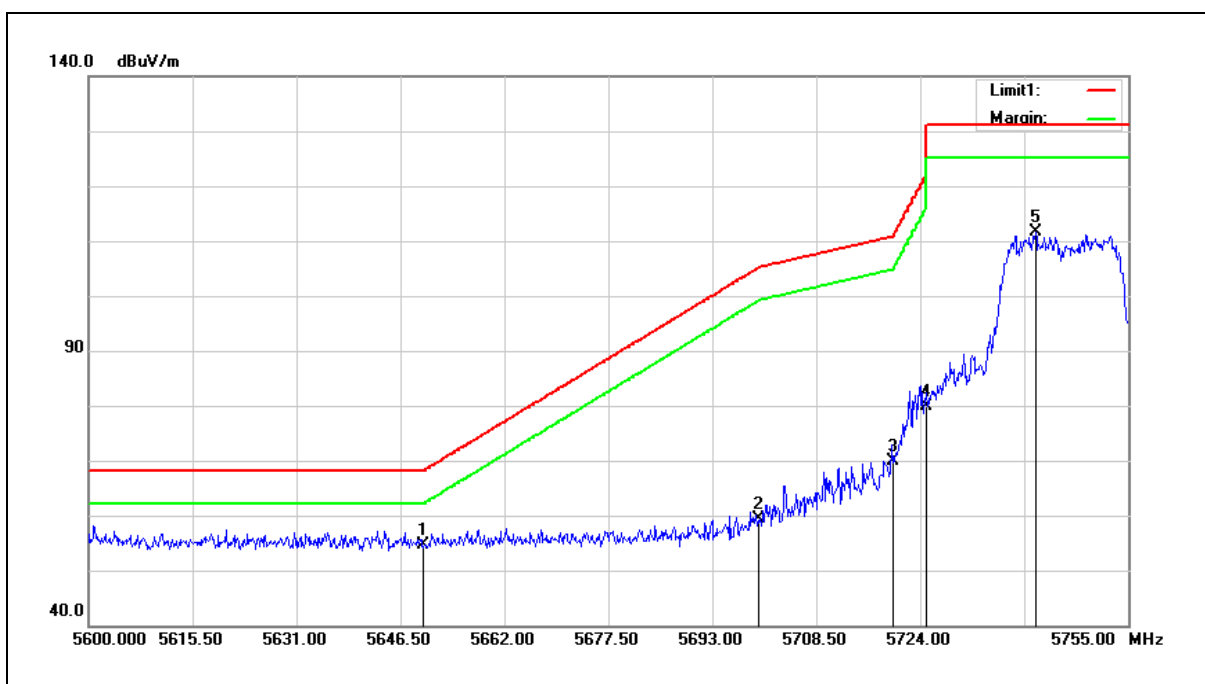
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	48.18	8.16	56.34	68.20	-11.86	peak
2	5700.000	52.16	8.26	60.42	105.20	-44.78	peak
3	5720.000	62.19	8.30	70.49	110.80	-40.31	peak
4	5725.000	75.72	8.31	84.03	122.20	-38.17	peak
5	5749.575	103.15	8.35	111.50	--	--	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5745 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	5650.000	46.47	8.16	54.63	68.20	-13.57	peak
2	5700.000	51.03	8.26	59.29	105.20	-45.91	peak
3	5720.000	61.68	8.30	69.98	110.80	-40.82	peak
4	5725.000	71.52	8.31	79.83	122.20	-42.37	peak
5	5741.205	103.29	8.34	111.63	--	--	peak

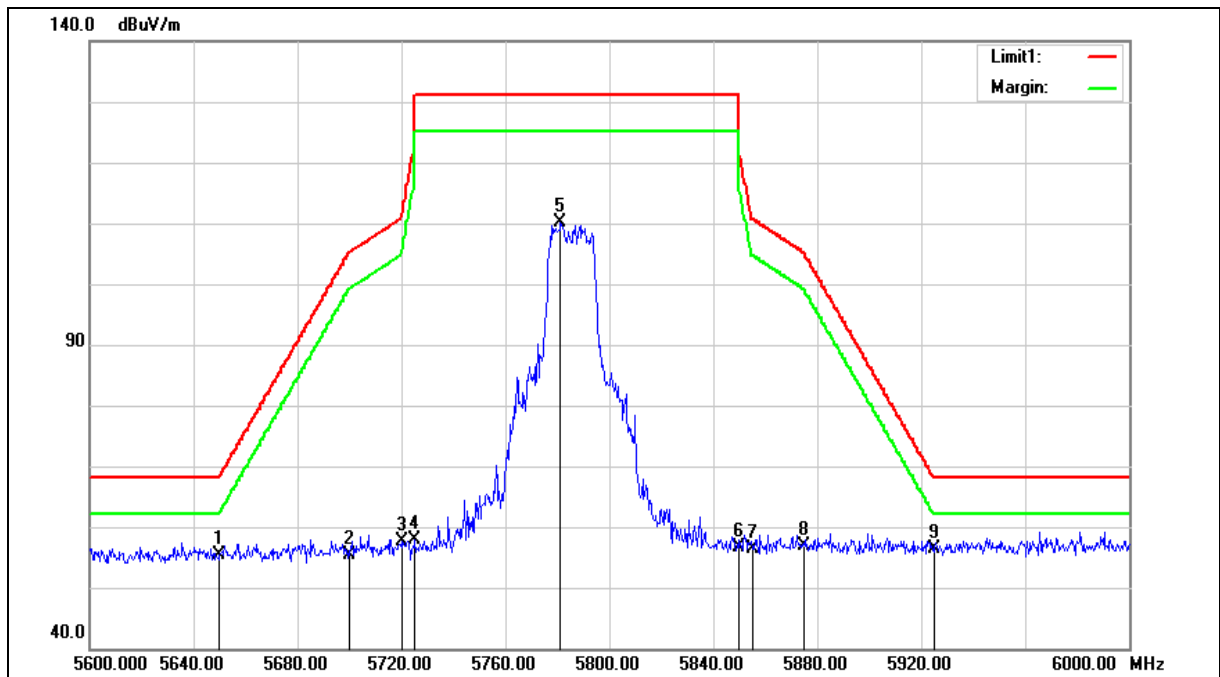
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 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	5650.000	47.17	8.16	55.33	68.20	-12.87	peak
2	5700.000	47.21	8.26	55.47	105.20	-49.73	peak
3	5720.000	49.21	8.30	57.51	110.80	-53.29	peak
4	5725.000	49.68	8.31	57.99	122.20	-64.21	peak
5	5781.200	101.75	8.42	110.17	--	--	peak
6	5850.000	47.98	8.55	56.53	122.20	-65.67	peak
7	5855.000	47.87	8.56	56.43	110.80	-54.37	peak
8	5875.000	48.24	8.61	56.85	105.20	-48.35	peak
9	5925.000	47.68	8.71	56.39	68.20	-11.81	peak

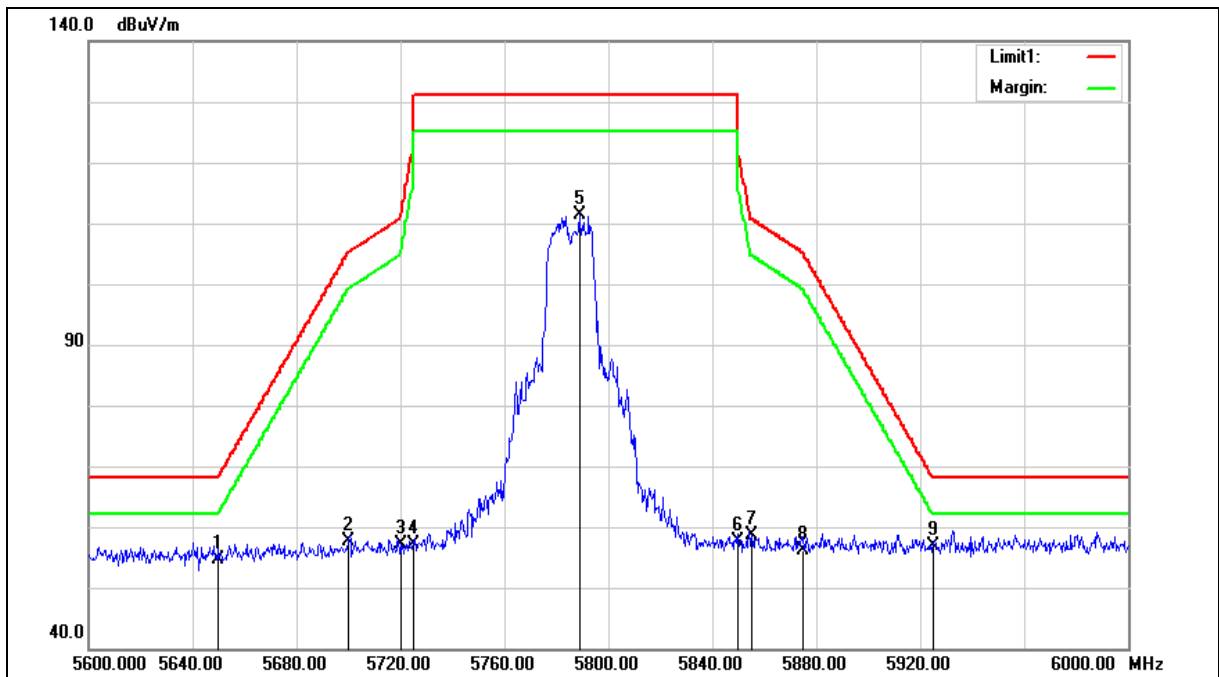
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

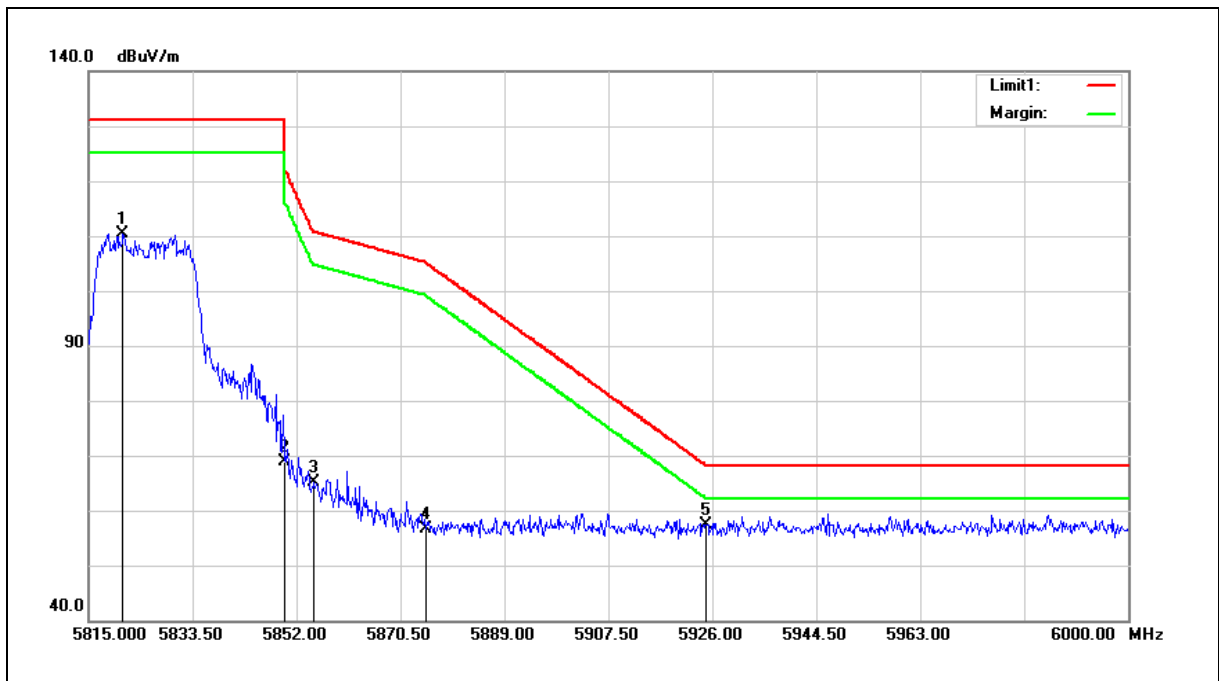
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.58	8.16	54.74	68.20	-13.46	peak
2	5700.000	49.29	8.26	57.55	105.20	-47.65	peak
3	5720.000	48.82	8.30	57.12	110.80	-53.68	peak
4	5725.000	48.93	8.31	57.24	122.20	-64.96	peak
5	5788.800	102.93	8.43	111.36	--	--	peak
6	5850.000	49.09	8.55	57.64	122.20	-64.56	peak
7	5855.000	50.11	8.56	58.67	110.80	-52.13	peak
8	5875.000	47.46	8.61	56.07	105.20	-49.13	peak
9	5925.000	48.08	8.71	56.79	68.20	-11.41	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



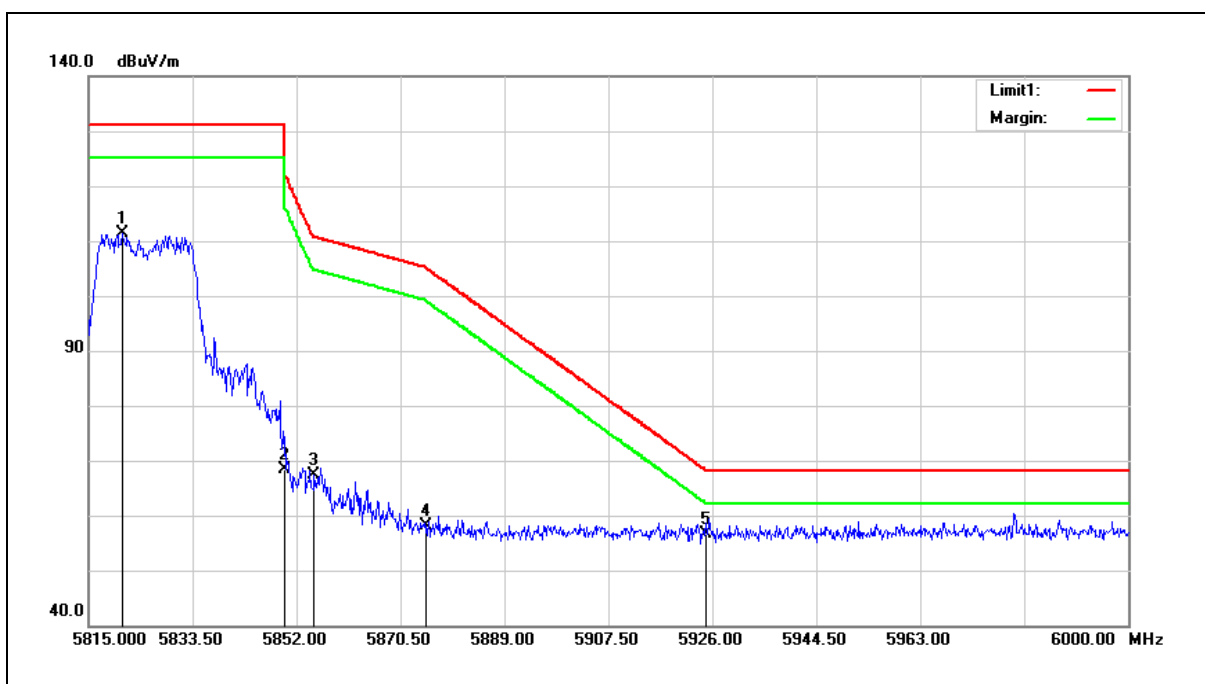
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5821.105	101.86	8.49	110.35	--	--	peak
2	5850.000	60.37	8.55	68.92	122.20	-53.28	peak
3	5855.000	56.55	8.56	65.11	110.80	-45.69	peak
4	5875.000	48.07	8.61	56.68	105.20	-48.52	peak
5	5925.000	48.63	8.71	57.34	68.20	-10.86	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5825 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	5820.920	103.01	8.49	111.50	--	--	peak
2	5850.000	59.85	8.55	68.40	122.20	-53.80	peak
3	5855.000	58.73	8.56	67.29	110.80	-43.51	peak
4	5875.000	49.47	8.61	58.08	105.20	-47.12	peak
5	5925.000	47.82	8.71	56.53	68.20	-11.67	peak

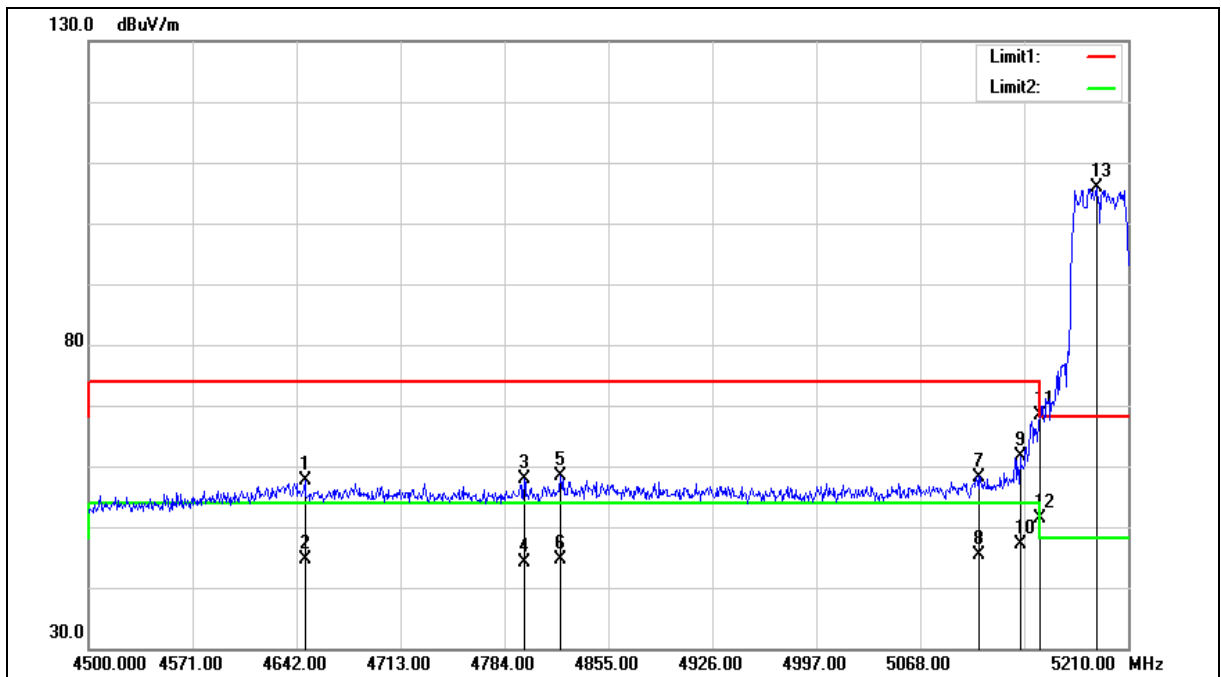
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5190 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5190 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	4647.680	52.20	5.36	57.56	74.00	-16.44	peak
2	4647.680	39.29	5.36	44.65	54.00	-9.35	AVG
3	4797.490	52.14	5.81	57.95	74.00	-16.05	peak
4	4797.490	38.34	5.81	44.15	54.00	-9.85	AVG
5	4822.340	52.52	5.88	58.40	74.00	-15.60	peak
6	4822.340	38.66	5.88	44.54	54.00	-9.46	AVG
7	5108.470	51.54	6.71	58.25	74.00	-15.75	peak
8	5108.470	38.64	6.71	45.35	54.00	-8.65	AVG
9	5136.160	54.89	6.80	61.69	74.00	-12.31	peak
10	5136.160	40.21	6.80	47.01	54.00	-6.99	AVG
11	5150.000	61.56	6.84	68.40	74.00	-5.60	peak
12	5150.000	44.52	6.84	51.36	54.00	-2.64	AVG
13	5188.700	98.94	6.95	105.89	--	--	peak

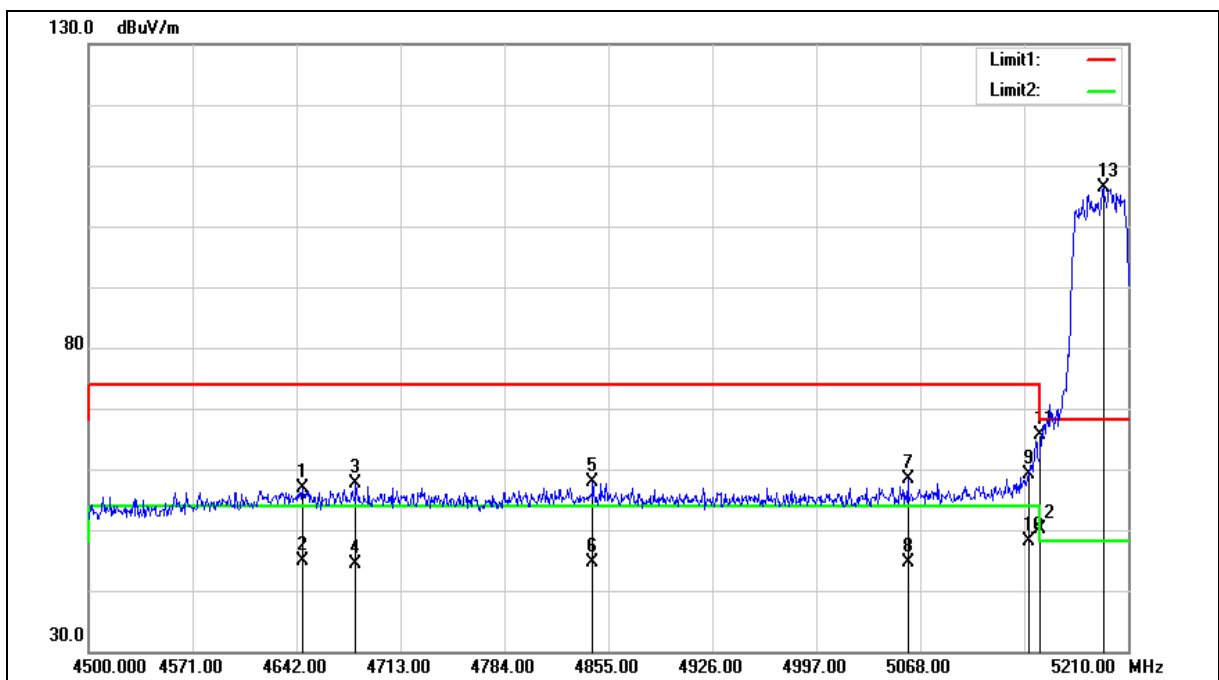
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5190 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5190 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	4646.260	51.52	5.36	56.88	74.00	-17.12	peak
2	4646.260	39.59	5.36	44.95	54.00	-9.05	AVG
3	4682.470	52.09	5.47	57.56	74.00	-16.44	peak
4	4682.470	38.87	5.47	44.34	54.00	-9.66	AVG
5	4844.350	51.92	5.95	57.87	74.00	-16.13	peak
6	4844.350	38.61	5.95	44.56	54.00	-9.44	AVG
7	5059.480	51.89	6.57	58.46	74.00	-15.54	peak
8	5059.480	37.96	6.57	44.53	54.00	-9.47	AVG
9	5141.840	52.24	6.81	59.05	74.00	-14.95	peak
10	5141.840	41.32	6.81	48.13	54.00	-5.87	AVG
11	5150.000	58.78	6.84	65.62	74.00	-8.38	peak
12	5150.000	43.21	6.84	50.05	54.00	-3.95	AVG
13	5192.960	99.39	6.96	106.35	--	--	peak

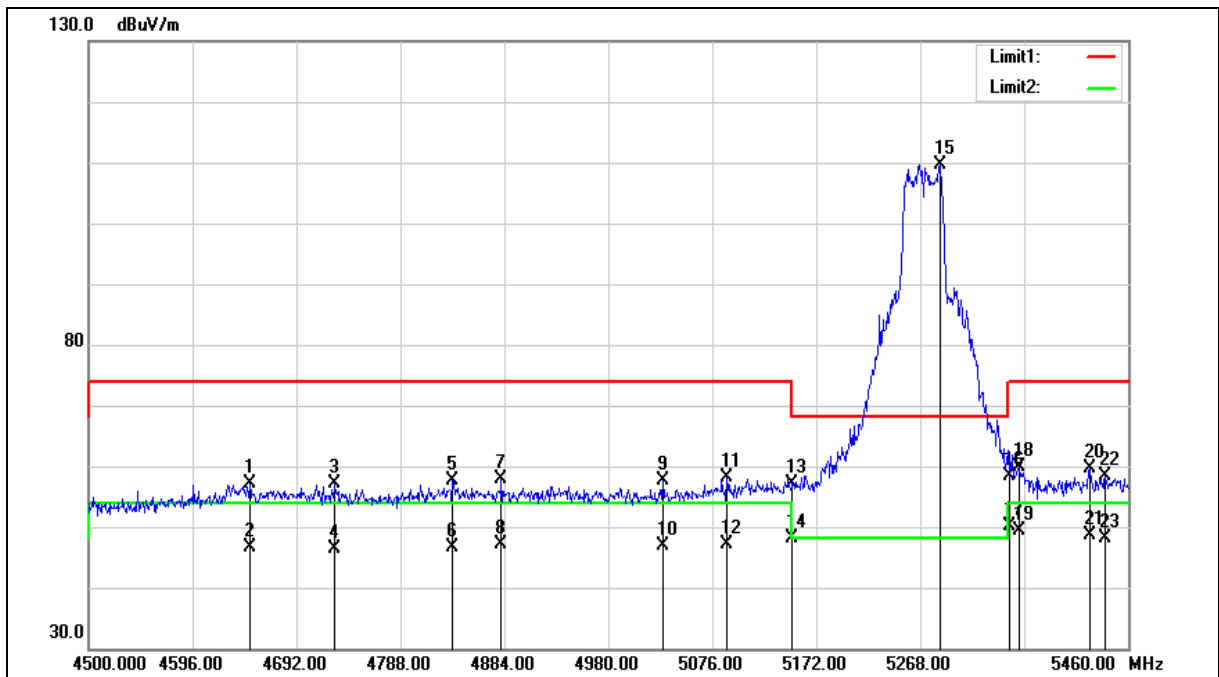
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5230 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5230 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	4648.800	51.76	5.37	57.13	74.00	-16.87	peak
2	4648.800	41.19	5.37	46.56	54.00	-7.44	AVG
3	4727.520	51.62	5.61	57.23	74.00	-16.77	peak
4	4727.520	40.83	5.61	46.44	54.00	-7.56	AVG
5	4836.000	51.67	5.92	57.59	74.00	-16.41	peak
6	4836.000	40.71	5.92	46.63	54.00	-7.37	AVG
7	4881.120	51.76	6.05	57.81	74.00	-16.19	peak
8	4881.120	41.04	6.05	47.09	54.00	-6.91	AVG
9	5029.920	51.23	6.49	57.72	74.00	-16.28	peak
10	5029.920	40.47	6.49	46.96	54.00	-7.04	AVG
11	5089.440	51.42	6.66	58.08	74.00	-15.92	peak
12	5089.440	40.52	6.66	47.18	54.00	-6.82	AVG
13	5150.000	50.31	6.84	57.15	74.00	-16.85	peak
14	5150.000	41.33	6.84	48.17	54.00	-5.83	AVG
15	5286.240	102.43	7.23	109.66	--	--	peak
16	5350.000	51.04	7.41	58.45	74.00	-15.55	peak
17	5350.000	42.70	7.41	50.11	54.00	-3.89	AVG
18	5359.200	52.43	7.44	59.87	74.00	-14.13	peak
19	5359.200	42.00	7.44	49.44	54.00	-4.56	AVG
20	5424.480	51.92	7.63	59.55	74.00	-14.45	peak
21	5424.480	41.07	7.63	48.70	54.00	-5.30	AVG
22	5438.880	50.68	7.68	58.36	74.00	-15.64	peak
23	5438.880	40.57	7.68	48.25	54.00	-5.75	AVG

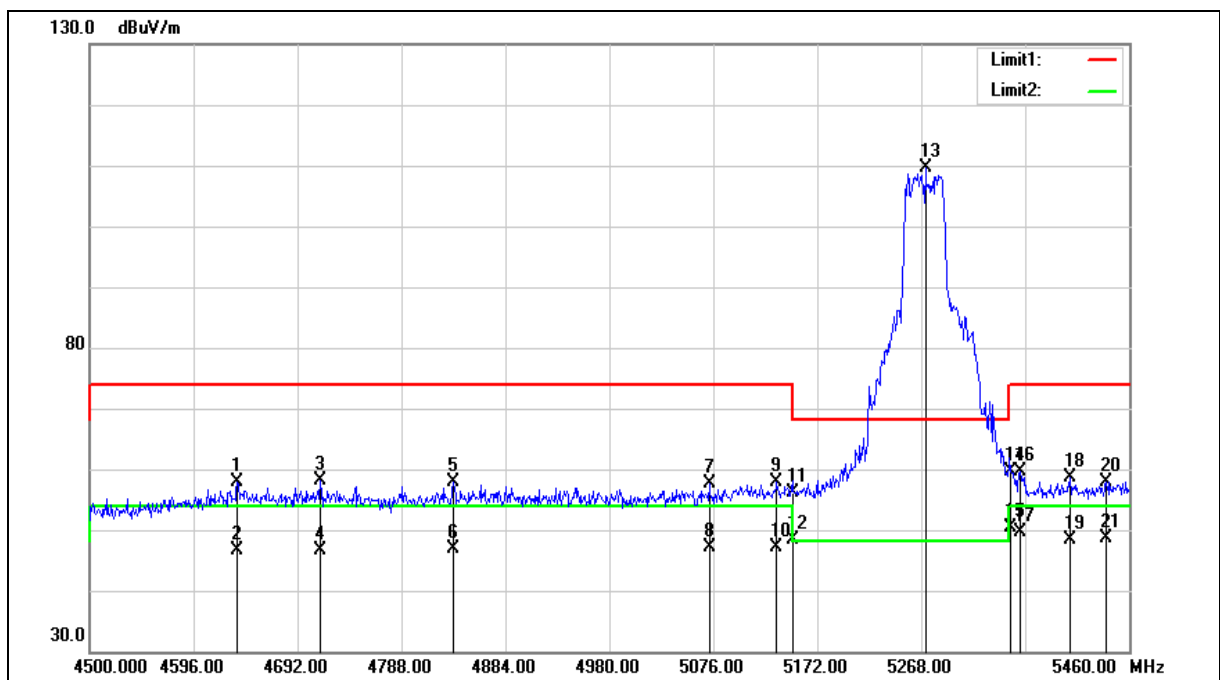
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5230 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5230 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

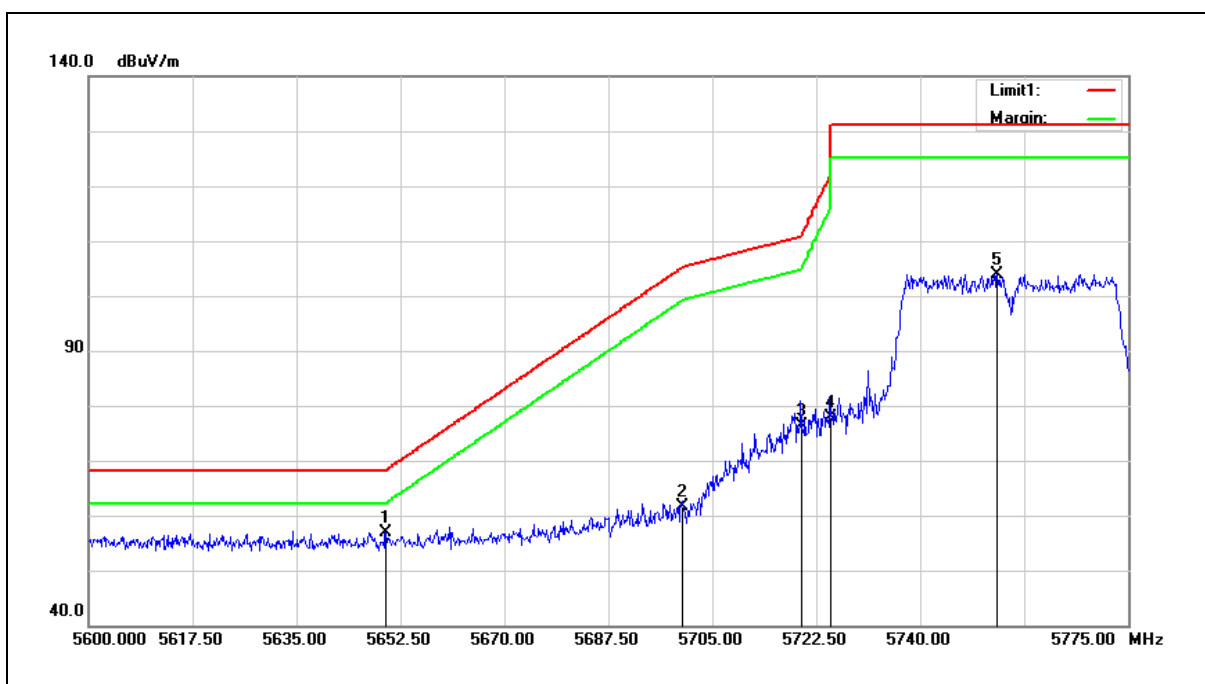
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4636.320	52.45	5.34	57.79	74.00	-16.21	peak
2	4636.320	41.28	5.34	46.62	54.00	-7.38	AVG
3	4713.120	52.64	5.56	58.20	74.00	-15.80	peak
4	4713.120	41.09	5.56	46.65	54.00	-7.35	AVG
5	4836.000	52.01	5.92	57.93	74.00	-16.07	peak
6	4836.000	40.99	5.92	46.91	54.00	-7.09	AVG
7	5072.160	51.00	6.60	57.60	74.00	-16.40	peak
8	5072.160	40.41	6.60	47.01	54.00	-6.99	AVG
9	5134.560	51.21	6.79	58.00	74.00	-16.00	peak
10	5134.560	40.42	6.79	47.21	54.00	-6.79	AVG
11	5150.000	49.22	6.84	56.06	74.00	-17.94	peak
12	5150.000	41.51	6.84	48.35	54.00	-5.65	AVG
13	5271.840	102.49	7.19	109.68	--	--	peak
14	5350.000	52.33	7.41	59.74	74.00	-14.26	peak
15	5350.000	42.91	7.41	50.32	54.00	-3.68	AVG
16	5359.200	52.22	7.44	59.66	74.00	-14.34	peak
17	5359.200	42.14	7.44	49.58	54.00	-4.42	AVG
18	5405.280	51.01	7.58	58.59	74.00	-15.41	peak
19	5405.280	40.84	7.58	48.42	54.00	-5.58	AVG
20	5438.880	50.30	7.68	57.98	74.00	-16.02	peak
21	5438.880	40.94	7.68	48.62	54.00	-5.38	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5755 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



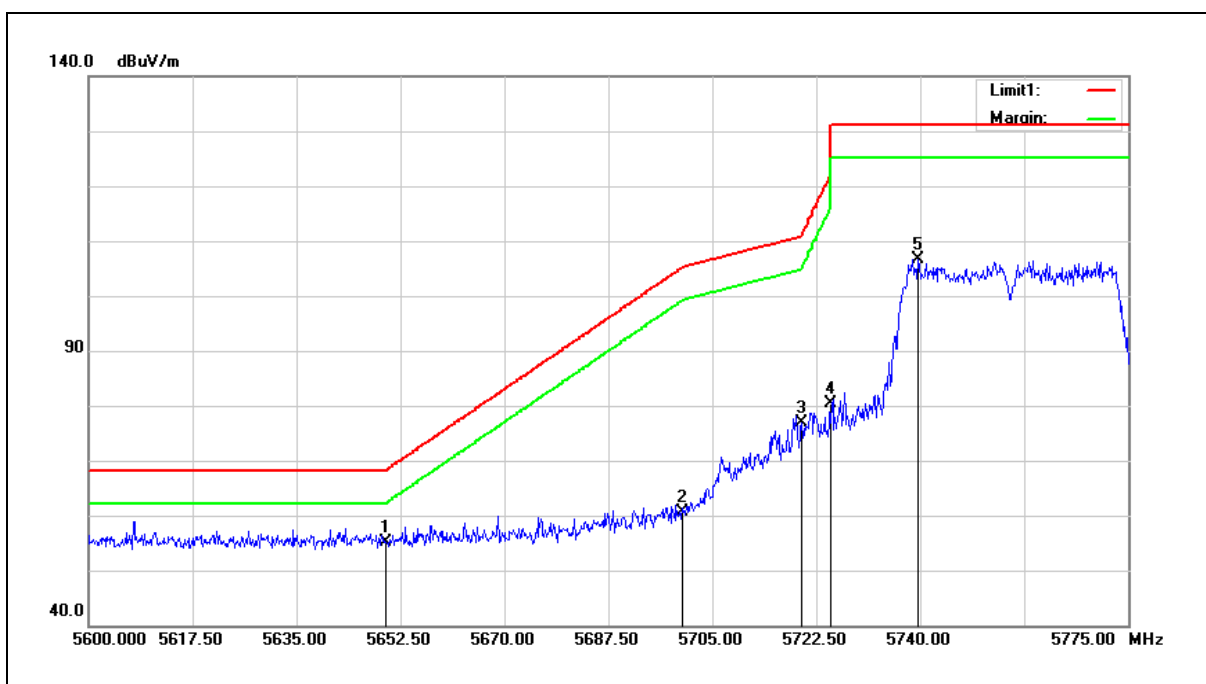
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	48.81	8.16	56.97	68.20	-11.23	peak
2	5700.000	53.31	8.26	61.57	105.20	-43.63	peak
3	5720.000	68.12	8.30	76.42	110.80	-34.38	peak
4	5725.000	69.66	8.31	77.97	122.20	-44.23	peak
5	5752.950	95.50	8.36	103.86	--	--	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5755 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



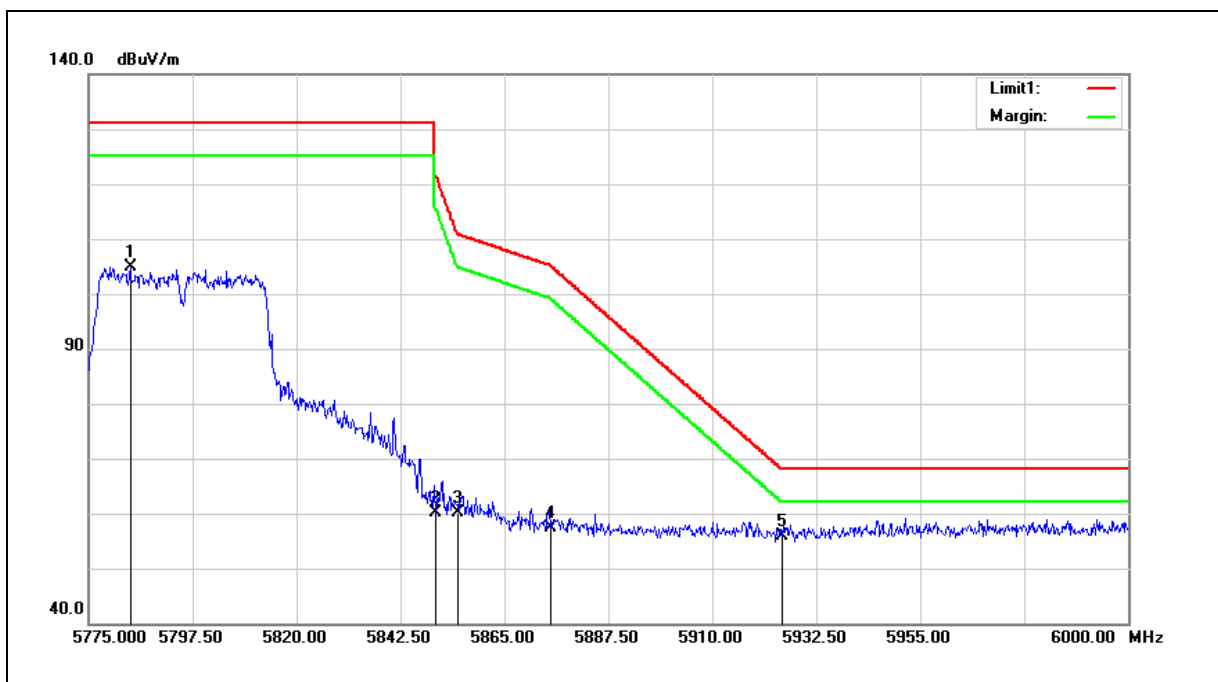
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.97	8.16	55.13	68.20	-13.07	peak
2	5700.000	52.39	8.26	60.65	105.20	-44.55	peak
3	5720.000	68.49	8.30	76.79	110.80	-34.01	peak
4	5725.000	72.01	8.31	80.32	122.20	-41.88	peak
5	5739.650	98.33	8.33	106.66	--	--	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5795 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



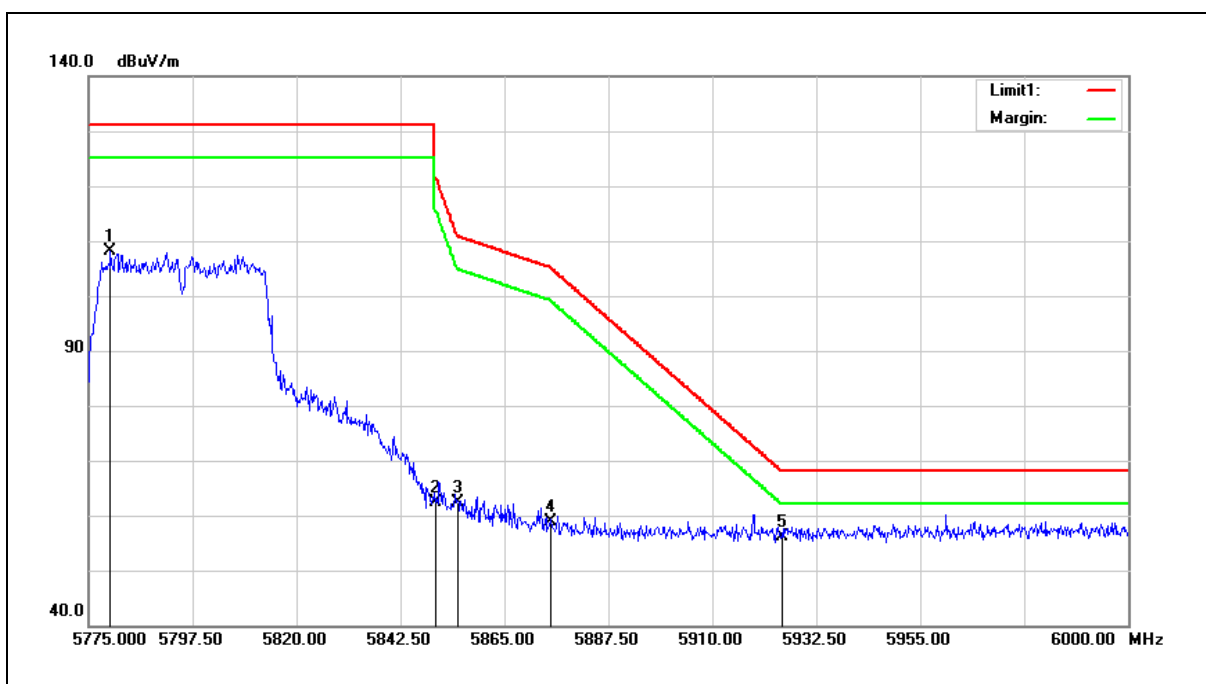
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5784.000	96.57	8.42	104.99	--	--	peak
2	5850.000	51.68	8.55	60.23	122.20	-61.97	peak
3	5855.000	51.61	8.56	60.17	110.80	-50.63	peak
4	5875.000	48.89	8.61	57.50	105.20	-47.70	peak
5	5925.000	47.10	8.71	55.81	68.20	-12.39	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5795 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	5779.725	99.62	8.41	108.03	--	--	peak
2	5850.000	53.86	8.55	62.41	122.20	-59.79	peak
3	5855.000	53.80	8.56	62.36	110.80	-48.44	peak
4	5875.000	50.26	8.61	58.87	105.20	-46.33	peak
5	5925.000	47.40	8.71	56.11	68.20	-12.09	peak

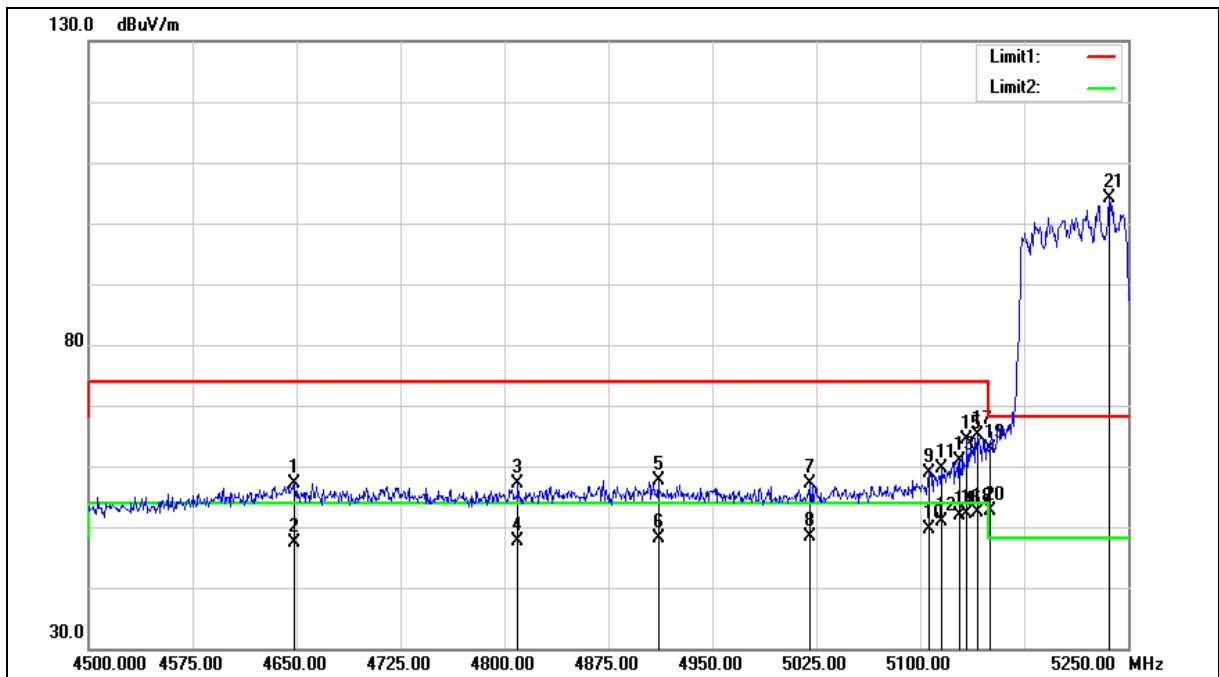
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5210 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5210 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	4648.500	51.77	5.37	57.14	74.00	-16.86	peak
2	4648.500	41.95	5.37	47.32	54.00	-6.68	AVG
3	4809.750	51.21	5.84	57.05	74.00	-16.95	peak
4	4809.750	41.70	5.84	47.54	54.00	-6.46	AVG
5	4911.000	51.45	6.14	57.59	74.00	-16.41	peak
6	4911.000	41.89	6.14	48.03	54.00	-5.97	AVG
7	5020.500	50.71	6.46	57.17	74.00	-16.83	peak
8	5020.500	41.94	6.46	48.40	54.00	-5.60	AVG
9	5106.000	52.22	6.71	58.93	74.00	-15.07	peak
10	5106.000	42.98	6.71	49.69	54.00	-4.31	AVG
11	5115.000	53.00	6.73	59.73	74.00	-14.27	peak
12	5115.000	44.22	6.73	50.95	54.00	-3.05	AVG
13	5128.500	54.21	6.78	60.99	74.00	-13.01	peak
14	5128.500	45.01	6.78	51.79	54.00	-2.21	AVG
15	5133.750	57.51	6.79	64.30	74.00	-9.70	peak
16	5133.750	45.32	6.79	52.11	54.00	-1.89	AVG
17	5141.250	58.31	6.81	65.12	74.00	-8.88	peak
18	5141.250	45.45	6.81	52.26	54.00	-1.74	AVG
19	5150.000	56.15	6.84	62.99	74.00	-11.01	peak
20	5150.000	45.86	6.84	52.70	54.00	-1.30	AVG
21	5236.500	96.99	7.09	104.08	--	--	peak

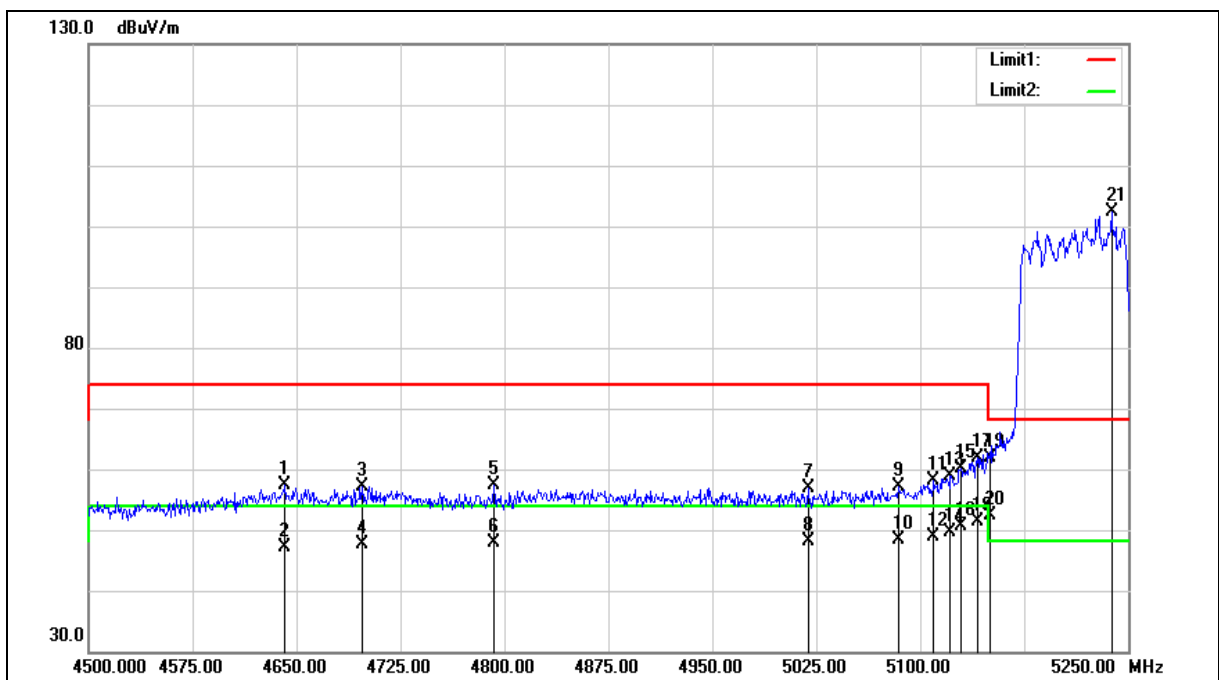
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5210 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5210 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	4641.750	52.02	5.35	57.37	74.00	-16.63	peak
2	4641.750	41.87	5.35	47.22	54.00	-6.78	AVG
3	4697.250	51.73	5.51	57.24	74.00	-16.76	peak
4	4697.250	42.24	5.51	47.75	54.00	-6.25	AVG
5	4792.500	51.59	5.79	57.38	74.00	-16.62	peak
6	4792.500	42.11	5.79	47.90	54.00	-6.10	AVG
7	5019.000	50.35	6.46	56.81	74.00	-17.19	peak
8	5019.000	41.75	6.46	48.21	54.00	-5.79	AVG
9	5084.250	50.53	6.64	57.17	74.00	-16.83	peak
10	5084.250	41.69	6.64	48.33	54.00	-5.67	AVG
11	5109.750	51.52	6.71	58.23	74.00	-15.77	peak
12	5109.750	42.21	6.71	48.92	54.00	-5.08	AVG
13	5121.750	52.14	6.75	58.89	74.00	-15.11	peak
14	5121.750	43.00	6.75	49.75	54.00	-4.25	AVG
15	5129.250	53.25	6.78	60.03	74.00	-13.97	peak
16	5129.250	43.89	6.78	50.67	54.00	-3.33	AVG
17	5141.250	54.99	6.81	61.80	74.00	-12.20	peak
18	5141.250	44.46	6.81	51.27	54.00	-2.73	AVG
19	5150.000	55.03	6.84	61.87	74.00	-12.13	peak
20	5150.000	45.48	6.84	52.32	54.00	-1.68	AVG
21	5238.000	95.25	7.09	102.34	--	--	peak

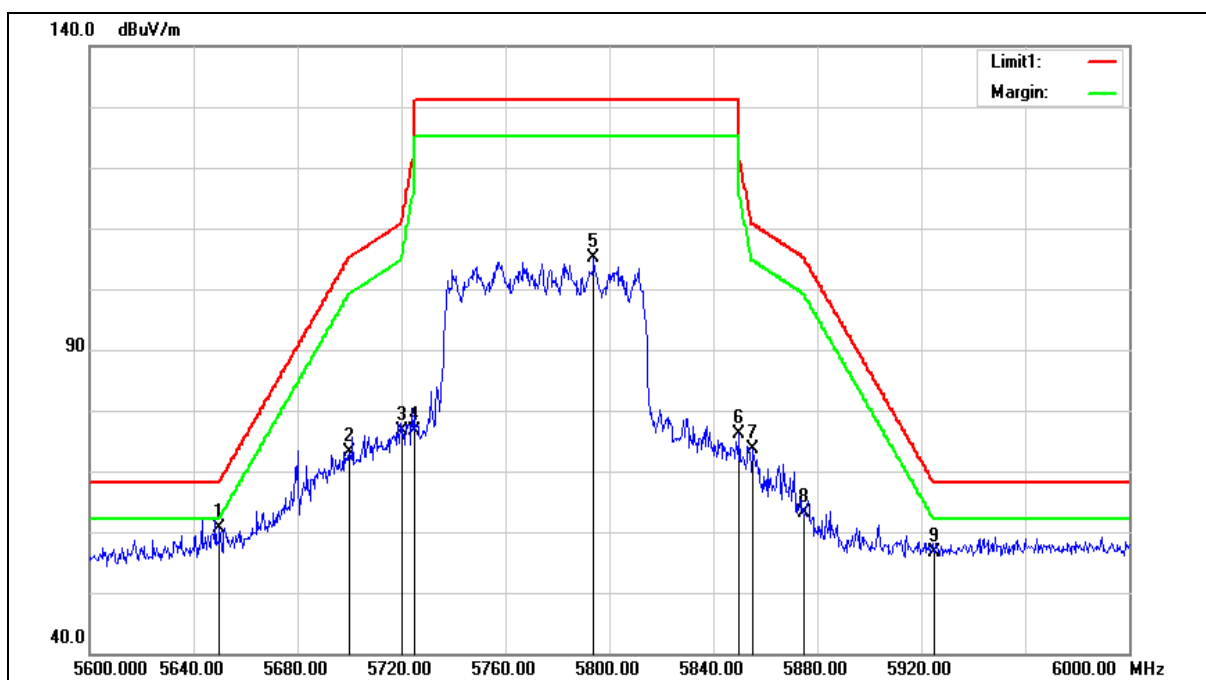
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5775 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5775 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	5650.000	52.41	8.16	60.57	68.20	-7.63	peak
2	5700.000	64.94	8.26	73.20	105.20	-32.00	peak
3	5720.000	68.41	8.30	76.71	110.80	-34.09	peak
4	5725.000	68.28	8.31	76.59	122.20	-45.61	peak
5	5794.000	96.70	8.44	105.14	--	--	peak
6	5850.000	67.54	8.55	76.09	122.20	-46.11	peak
7	5855.000	65.15	8.56	73.71	110.80	-37.09	peak
8	5875.000	54.64	8.61	63.25	105.20	-41.95	peak
9	5925.000	47.86	8.71	56.57	68.20	-11.63	peak

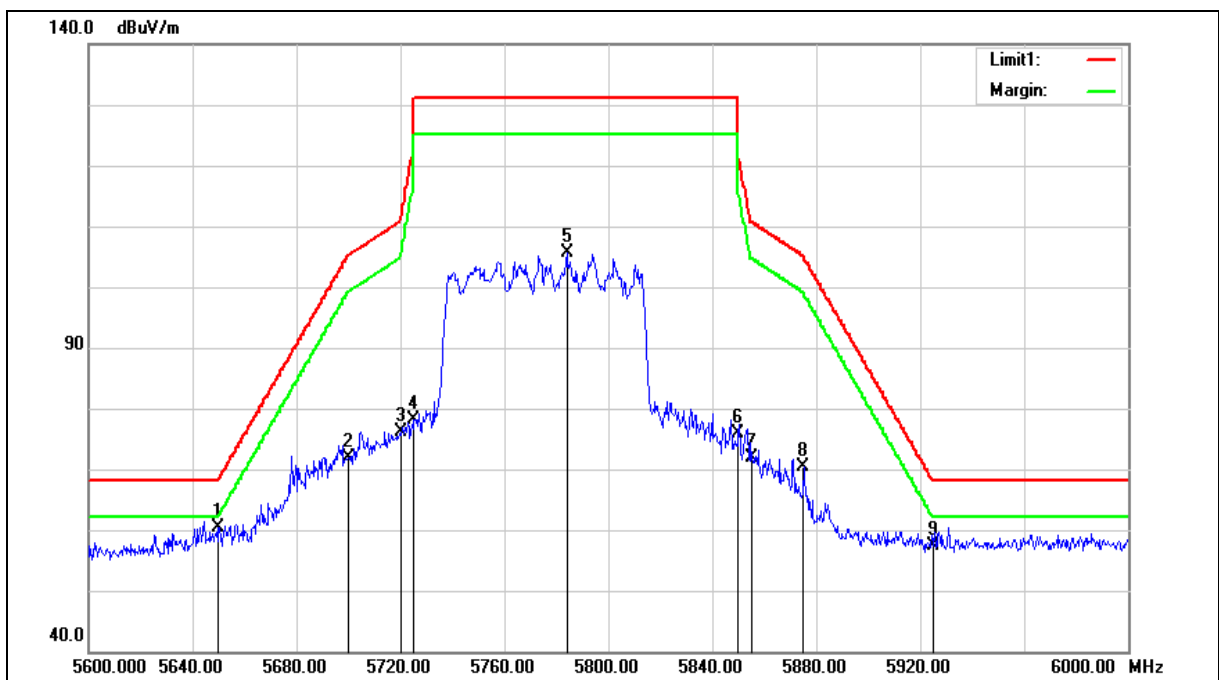
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5775 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5775 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	5650.000	52.26	8.16	60.42	68.20	-7.78	peak
2	5700.000	63.68	8.26	71.94	105.20	-33.26	peak
3	5720.000	67.74	8.30	76.04	110.80	-34.76	peak
4	5725.000	69.93	8.31	78.24	122.20	-43.96	peak
5	5784.000	97.09	8.42	105.51	--	--	peak
6	5850.000	67.26	8.55	75.81	122.20	-46.39	peak
7	5855.000	63.34	8.56	71.90	110.80	-38.90	peak
8	5875.000	61.77	8.61	70.38	105.20	-34.82	peak
9	5925.000	48.62	8.71	57.33	68.20	-10.87	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.

Annex C. Conducted Test Results

Maximum Conducted Output Power Measurement

Test Mode		Mode 2: IEEE 802.11a Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0		Limit (dBm)
		(dBm)	(W)	
5180.0	6 M	18.53	0.071	≤ 24.00
5200.0		18.59	0.072	≤ 24.00
5220.0		18.73	0.075	≤ 24.00
5240.0		18.83	0.076	≤ 24.00
5745.0		18.85	0.077	≤ 30.00
5765.0		18.56	0.072	≤ 30.00
5785.0		18.55	0.072	≤ 30.00
5805.0		18.84	0.077	≤ 30.00
5825.0		18.81	0.076	≤ 30.00
Frequency (MHz)	Data Rate	ANT-1		Limit (dBm)
		(dBm)	(W)	
5180.0	6 M	18.51	0.071	≤ 24.00
5200.0		18.44	0.070	≤ 24.00
5220.0		18.52	0.071	≤ 24.00
5240.0		18.64	0.073	≤ 24.00
5745.0		18.63	0.073	≤ 30.00
5765.0		18.42	0.070	≤ 30.00
5785.0		18.60	0.072	≤ 30.00
5805.0		18.40	0.069	≤ 30.00
5825.0		18.61	0.073	≤ 30.00
Frequency (MHz)	Data Rate	ANT-0+1		Limit (dBm)
		(dBm)	(W)	
5180.0	6 M	21.53	0.142	≤ 24.00
5200.0		21.53	0.142	≤ 24.00
5220.0		21.64	0.146	≤ 24.00
5240.0		21.75	0.149	≤ 24.00
5745.0		21.75	0.150	≤ 30.00
5765.0		21.50	0.141	≤ 30.00
5785.0		21.59	0.144	≤ 30.00
5805.0		21.64	0.146	≤ 30.00
5825.0		21.72	0.149	≤ 30.00

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

Test Mode		Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0		Limit (dBm)
		(dBm)	(W)	
5180.0	13 M	18.11	0.065	≤ 22.74
5200.0		18.65	0.073	≤ 22.74
5220.0		18.56	0.072	≤ 22.74
5240.0		18.86	0.077	≤ 22.74
5745.0		18.51	0.071	≤ 28.74
5765.0		18.79	0.076	≤ 28.74
5785.0		18.75	0.075	≤ 28.74
5805.0		18.66	0.073	≤ 28.74
5825.0		18.70	0.074	≤ 28.74
Frequency (MHz)	Data Rate	ANT-1		Limit (dBm)
		(dBm)	(W)	
5180.0	13 M	18.16	0.065	≤ 22.74
5200.0		18.68	0.074	≤ 22.74
5220.0		18.73	0.075	≤ 22.74
5240.0		18.82	0.076	≤ 22.74
5745.0		18.41	0.069	≤ 28.74
5765.0		18.50	0.071	≤ 28.74
5785.0		18.56	0.072	≤ 28.74
5805.0		18.70	0.074	≤ 28.74
5825.0		18.66	0.073	≤ 28.74
Frequency (MHz)	Data Rate	ANT-0+1		Limit (dBm)
		(dBm)	(W)	
5180.0	13 M	21.15	0.130	≤ 22.74
5200.0		21.68	0.147	≤ 22.74
5220.0		21.66	0.146	≤ 22.74
5240.0		21.85	0.153	≤ 22.74
5745.0		21.47	0.140	≤ 28.74
5765.0		21.66	0.146	≤ 28.74
5785.0		21.67	0.147	≤ 28.74
5805.0		21.69	0.148	≤ 28.74
5825.0		21.69	0.148	≤ 28.74

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

Test Mode		Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0		Limit (dBm)
		(dBm)	(W)	
5190.0	27 M	15.06	0.032	≤ 22.74
5230.0		18.90	0.078	≤ 22.74
5755.0		18.79	0.076	≤ 28.74
5795.0		18.81	0.076	≤ 28.74
Frequency (MHz)	Data Rate	ANT-1		Limit (dBm)
		(dBm)	(W)	
5190.0	27 M	15.11	0.032	≤ 22.74
5230.0		18.85	0.077	≤ 22.74
5755.0		18.53	0.071	≤ 28.74
5795.0		18.80	0.076	≤ 28.74
Frequency (MHz)	Data Rate	ANT-0+1		Limit (dBm)
		(dBm)	(W)	
5190.0	27 M	18.10	0.064	≤ 22.74
5230.0		21.89	0.154	≤ 22.74
5755.0		21.67	0.147	≤ 28.74
5795.0		21.82	0.152	≤ 28.74

Test Mode		Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode		
Frequency (MHz)	Data Rate	ANT-0		Limit (dBm)
		(dBm)	(W)	
5210.0	58.6 M	15.31	0.034	≤ 22.74
5775.0		18.52	0.071	≤ 28.74
Frequency (MHz)	Data Rate	ANT-1		Limit (dBm)
		(dBm)	(W)	
5210.0	58.6 M	14.81	0.030	≤ 22.74
5775.0		18.43	0.070	≤ 28.74
Frequency (MHz)	Data Rate	ANT-0+1		Limit (dBm)
		(dBm)	(W)	
5210.0	58.6 M	18.08	0.064	≤ 22.74
5775.0		21.49	0.141	≤ 28.74

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

26 dB RF Bandwidth Measurement & 99 % Occupied Bandwidth Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode	
Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
	ANT-0	
5180.0	27.050	16.852
5200.0	30.570	16.992
5240.0	30.260	16.980
Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
	ANT-1	
5180.0	31.230	17.062
5200.0	31.070	16.960
5240.0	30.630	17.025

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode	
Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
	ANT-0	
5180.0	25.880	17.927
5200.0	28.370	17.926
5240.0	27.370	17.898
Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
	ANT-1	
5180.0	26.310	17.974
5200.0	32.850	18.105
5240.0	28.700	18.058

Note: The 99 % occupied bandwidth not crossed 5250 MHz.

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode	
Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
	ANT-0	
5190.0	44.480	37.173
5230.0	62.120	37.266
Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
	ANT-1	
5190.0	45.140	37.255
5230.0	67.600	37.511

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode	
Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
	ANT-0	
5210.0	82.870	75.761
Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
	ANT-1	
5210.0	82.980	75.889

Note: The 99 % occupied bandwidth not crossed 5250 MHz.

■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0

5180 MHz

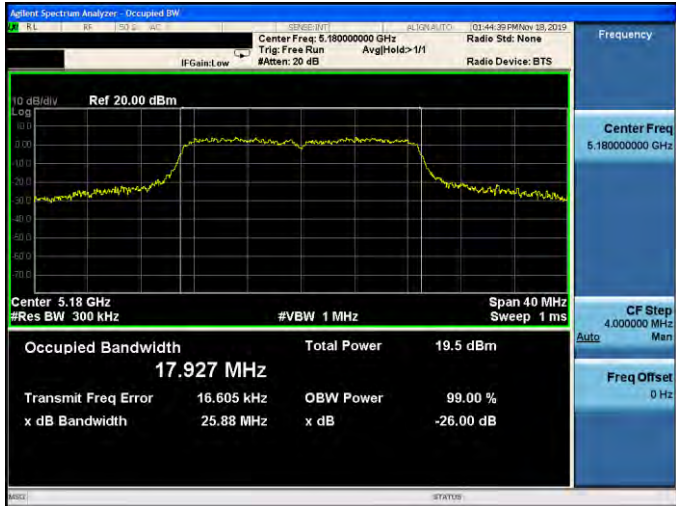


5200 MHz

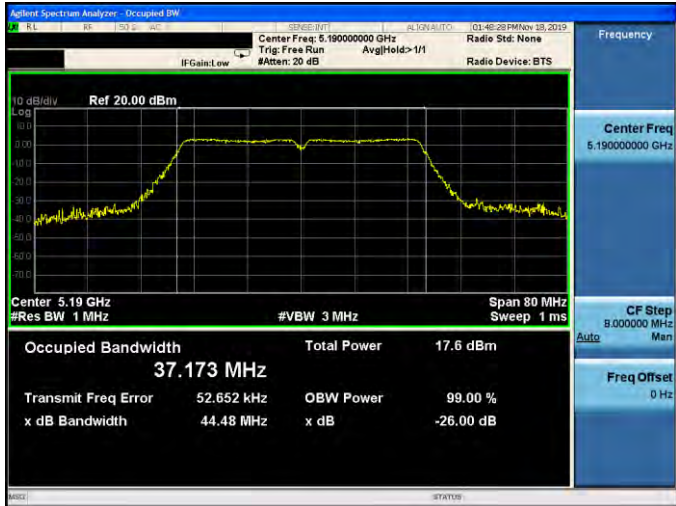
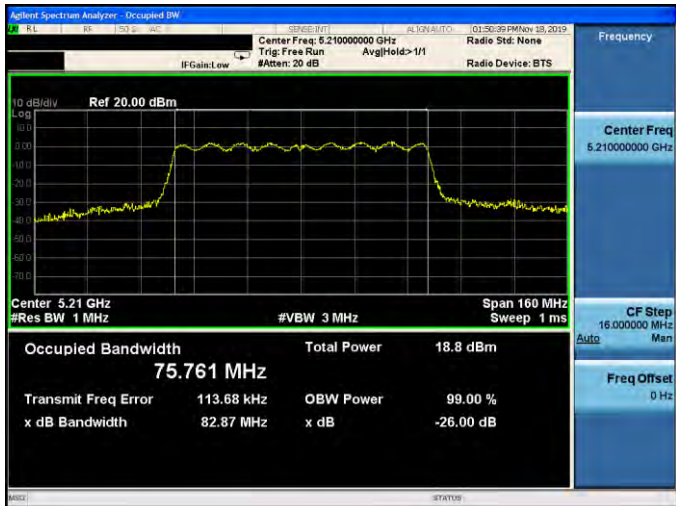


5240 MHz

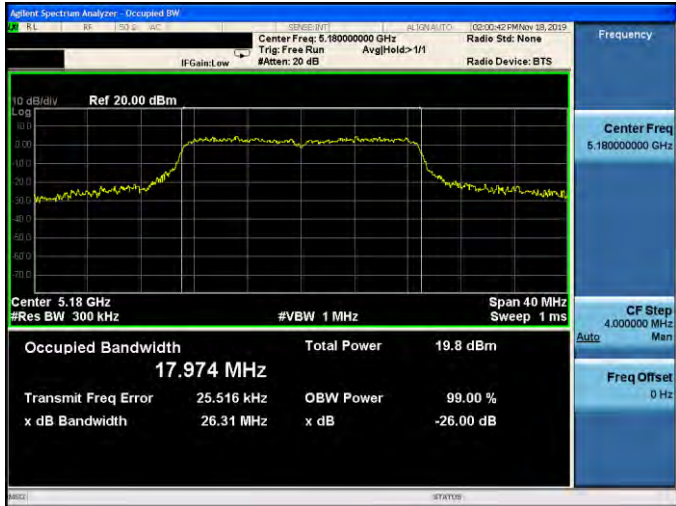


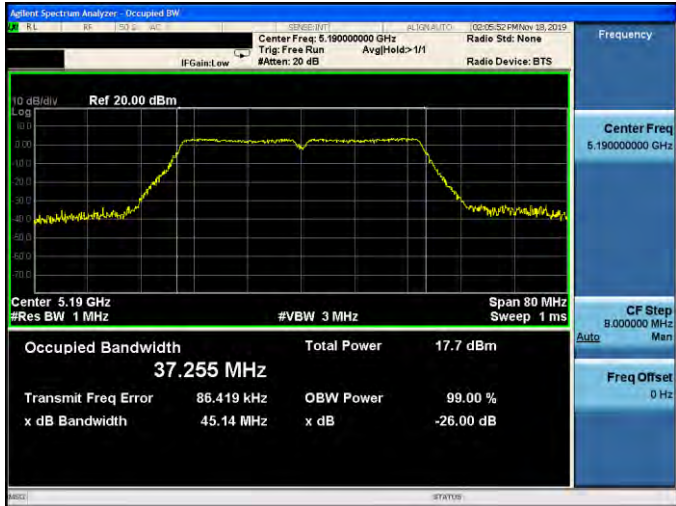
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ ANT-0	
5180 MHz	 Center Freq: 5.18000000 GHz Center Freq: 5.18 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 40 MHz Sweep: 1 ms Ref: 20.00 dBm Occupied Bandwidth: 17.927 MHz Total Power: 19.5 dBm Transmit Freq Error: 16.605 kHz OBW Power: 99.00 % x dB Bandwidth: 25.88 MHz x dB: -26.00 dB
5200 MHz	 Center Freq: 5.20000000 GHz Center Freq: 5.2 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 40 MHz Sweep: 1 ms Ref: 20.00 dBm Occupied Bandwidth: 17.926 MHz Total Power: 19.7 dBm Transmit Freq Error: 38.527 kHz OBW Power: 99.00 % x dB Bandwidth: 28.37 MHz x dB: -26.00 dB
5240 MHz	 Center Freq: 5.24000000 GHz Center Freq: 5.24 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 40 MHz Sweep: 1 ms Ref: 20.00 dBm Occupied Bandwidth: 17.898 MHz Total Power: 20.4 dBm Transmit Freq Error: 14.095 kHz OBW Power: 99.00 % x dB Bandwidth: 27.37 MHz x dB: -26.00 dB



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ ANT-0	
5190 MHz	 Ref 20.00 dBm Center Freq: 5.19000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Center 5.19 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 37.173 MHz Total Power 17.6 dBm Transmit Freq Error 52.652 kHz OBW Power 99.00 % x dB Bandwidth 44.48 MHz x dB -26.00 dB Frequency Center Freq 5.19000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
5230 MHz	 Ref 20.00 dBm Center Freq: 5.23000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Center 5.23 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 37.266 MHz Total Power 21.1 dBm Transmit Freq Error 10.406 kHz OBW Power 99.00 % x dB Bandwidth 62.12 MHz x dB -26.00 dB Frequency Center Freq 5.23000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ ANT-0	
5210 MHz	 Ref 20.00 dBm Center Freq: 5.21000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Center 5.21 GHz #Res BW 1 MHz #VBW 3 MHz Span 160 MHz Sweep 1 ms Occupied Bandwidth 75.761 MHz Total Power 18.8 dBm Transmit Freq Error 113.68 kHz OBW Power 99.00 % x dB Bandwidth 82.87 MHz x dB -26.00 dB Frequency Center Freq 5.21000000 GHz CF Step 16.000000 MHz Auto Man Freq Offset 0 Hz

Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1	
5180 MHz	 Robust Spectrum Analyzer - Occupied BW Center Freq: 5.180000000 GHz Trig: Free Run #Atten: 20 dB AvgHold> 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.062 MHz Total Power 20.7 dBm Transmit Freq Error -683 Hz OBW Power 99.00 % x dB Bandwidth 31.23 MHz x dB -26.00 dB Frequency Center Freq 5.180000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
5200 MHz	 Robust Spectrum Analyzer - Occupied BW Center Freq: 5.200000000 GHz Trig: Free Run #Atten: 20 dB AvgHold> 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.960 MHz Total Power 20.6 dBm Transmit Freq Error 24.601 kHz OBW Power 99.00 % x dB Bandwidth 31.07 MHz x dB -26.00 dB Frequency Center Freq 5.200000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
5240 MHz	 Robust Spectrum Analyzer - Occupied BW Center Freq: 5.240000000 GHz Trig: Free Run #Atten: 20 dB AvgHold> 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.025 MHz Total Power 20.9 dBm Transmit Freq Error 27.555 kHz OBW Power 99.00 % x dB Bandwidth 30.63 MHz x dB -26.00 dB Frequency Center Freq 5.240000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ ANT-1	
5180 MHz	 Center Freq: 5.18000000 GHz Center Freq: 5.18 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 40 MHz Sweep: 1 ms Ref: 20.00 dBm Occupied Bandwidth: 17.974 MHz Total Power: 19.8 dBm Transmit Freq Error: 25.516 kHz OBW Power: 99.00 % x dB Bandwidth: 26.31 MHz x dB: -26.00 dB
5200 MHz	 Center Freq: 5.20000000 GHz Center Freq: 5.2 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 40 MHz Sweep: 1 ms Ref: 20.00 dBm Occupied Bandwidth: 18.105 MHz Total Power: 20.7 dBm Transmit Freq Error: 51.940 kHz OBW Power: 99.00 % x dB Bandwidth: 32.85 MHz x dB: -26.00 dB
5240 MHz	 Center Freq: 5.24000000 GHz Center Freq: 5.24 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 40 MHz Sweep: 1 ms Ref: 20.00 dBm Occupied Bandwidth: 18.058 MHz Total Power: 21.1 dBm Transmit Freq Error: 41.914 kHz OBW Power: 99.00 % x dB Bandwidth: 28.70 MHz x dB: -26.00 dB

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ ANT-1	
5190 MHz	 Center Freq: 5.19000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.19 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 37.255 MHz Total Power 17.7 dBm Transmit Freq Error 86.419 kHz OBW Power 99.00 % x dB Bandwidth 45.14 MHz x dB -26.00 dB Frequency Center Freq 5.19000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
5230 MHz	 Center Freq: 5.23000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.23 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 37.511 MHz Total Power 21.8 dBm Transmit Freq Error 134.59 kHz OBW Power 99.00 % x dB Bandwidth 67.60 MHz x dB -26.00 dB Frequency Center Freq 5.23000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ ANT-1	
5210 MHz	 Center Freq: 5.21000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.21 GHz #Res BW 1 MHz #VBW 3 MHz Span 160 MHz Sweep 1 ms Occupied Bandwidth 75.889 MHz Total Power 18.4 dBm Transmit Freq Error 130.21 kHz OBW Power 99.00 % x dB Bandwidth 82.98 MHz x dB -26.00 dB Frequency Center Freq 5.21000000 GHz CF Step 16.000000 MHz Auto Man Freq Offset 0 Hz

6 dB RF Bandwidth Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5745.0	16530	≥ 500
5785.0	16530	≥ 500
5825.0	16510	≥ 500
Frequency (MHz)	ANT-1	Limit (kHz)
5745.0	16580	≥ 500
5785.0	16460	≥ 500
5825.0	16540	≥ 500

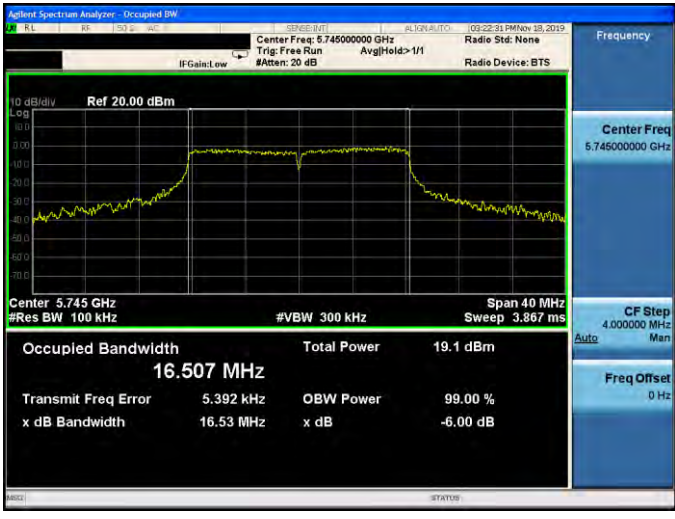
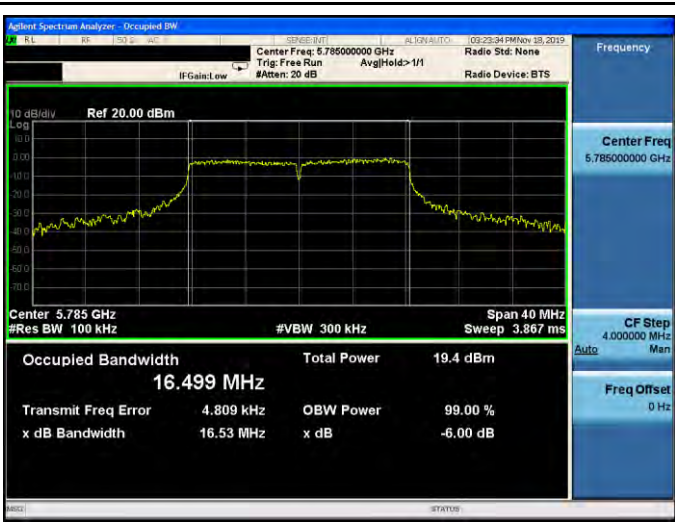
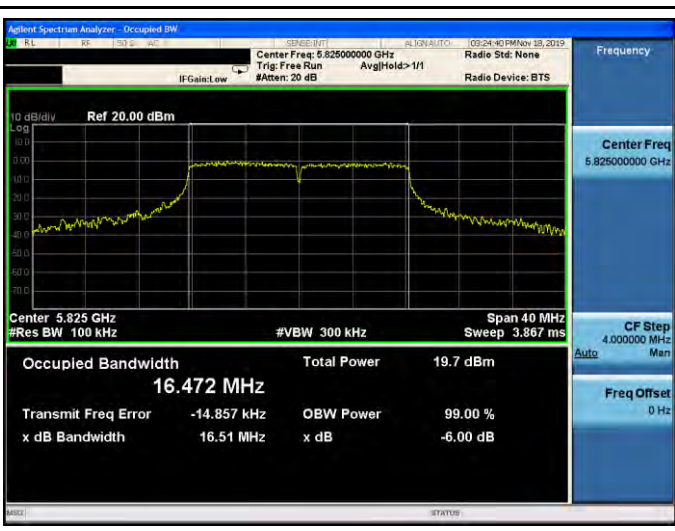
Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5745.0	17690	≥ 500
5785.0	17690	≥ 500
5825.0	17690	≥ 500
Frequency (MHz)	ANT-1	Limit (kHz)
5745.0	17750	≥ 500
5785.0	17700	≥ 500
5825.0	17720	≥ 500

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5755.0	36590	≥ 500
5795.0	36570	≥ 500
Frequency (MHz)	ANT-1	Limit (kHz)
5755.0	36580	≥ 500
5795.0	36590	≥ 500

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode	
Frequency (MHz)	ANT-0	Limit (kHz)
5775.0	76460	≥ 500
Frequency (MHz)	ANT-1	Limit (kHz)
5775.0	76450	≥ 500

■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX mode_ANT-0

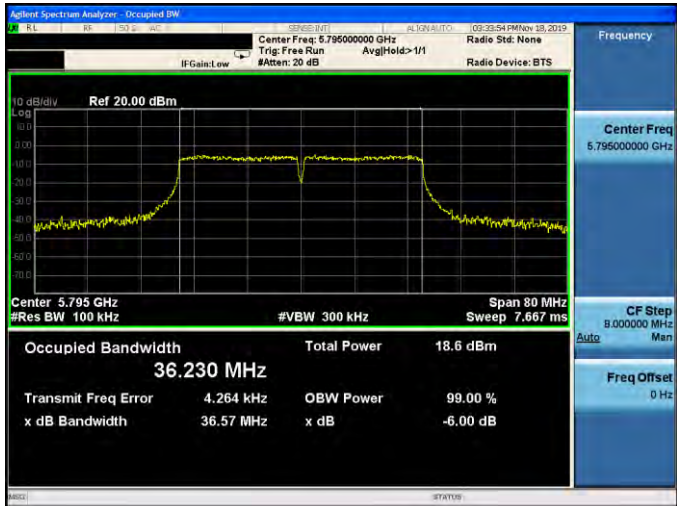
5745 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.745000000 GHz Trig: Free Run IF Gain: Low Atten: 20 dB Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.507 MHz Total Power 19.1 dBm Transmit Freq Error 5.392 kHz OBW Power 99.00 % x dB Bandwidth 16.53 MHz x dB -6.00 dB Frequency 5.745000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
5785 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.785000000 GHz Trig: Free Run IF Gain: Low Atten: 20 dB Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.499 MHz Total Power 19.4 dBm Transmit Freq Error 4.809 kHz OBW Power 99.00 % x dB Bandwidth 16.53 MHz x dB -6.00 dB Frequency 5.785000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
5825 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.825000000 GHz Trig: Free Run IF Gain: Low Atten: 20 dB Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.472 MHz Total Power 19.7 dBm Transmit Freq Error -14.857 kHz OBW Power 99.00 % x dB Bandwidth 16.51 MHz x dB -6.00 dB Frequency 5.825000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz



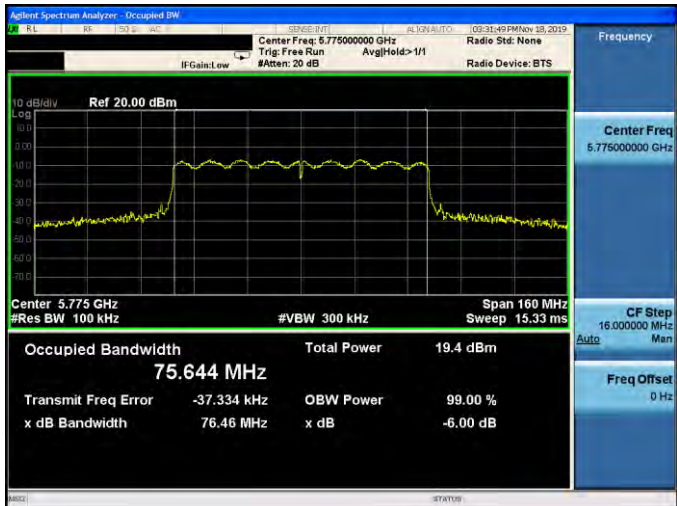
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0	
5745 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.74500000 GHz Trig: Free Run IF Gain: Low Ave/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.745 GHz Res BW 100 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 17.678 MHz Total Power 20.0 dBm Transmit Freq Error 950 Hz OBW Power 99.00 % x dB Bandwidth 17.69 MHz x dB -6.00 dB Frequency Center Freq 5.74500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
5785 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.78500000 GHz Trig: Free Run IF Gain: Low Ave/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.785 GHz Res BW 100 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 17.610 MHz Total Power 18.2 dBm Transmit Freq Error 8.992 kHz OBW Power 99.00 % x dB Bandwidth 17.69 MHz x dB -6.00 dB Frequency Center Freq 5.78500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
5825 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.82500000 GHz Trig: Free Run IF Gain: Low Ave/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.825 GHz Res BW 100 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 17.641 MHz Total Power 19.7 dBm Transmit Freq Error 1.351 kHz OBW Power 99.00 % x dB Bandwidth 17.69 MHz x dB -6.00 dB Frequency Center Freq 5.82500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0

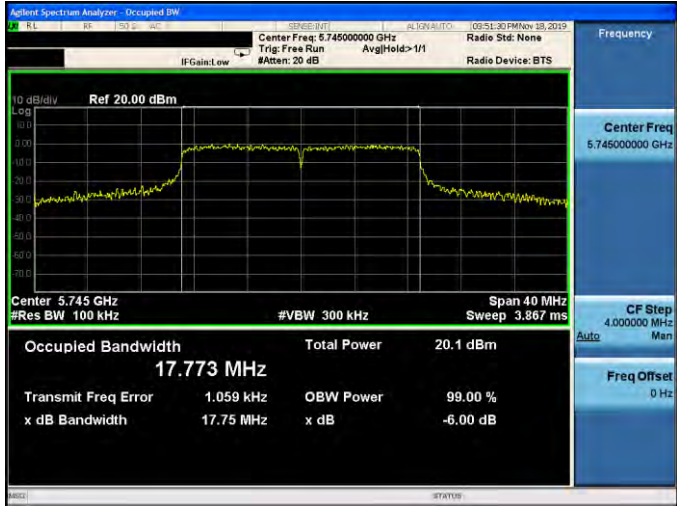
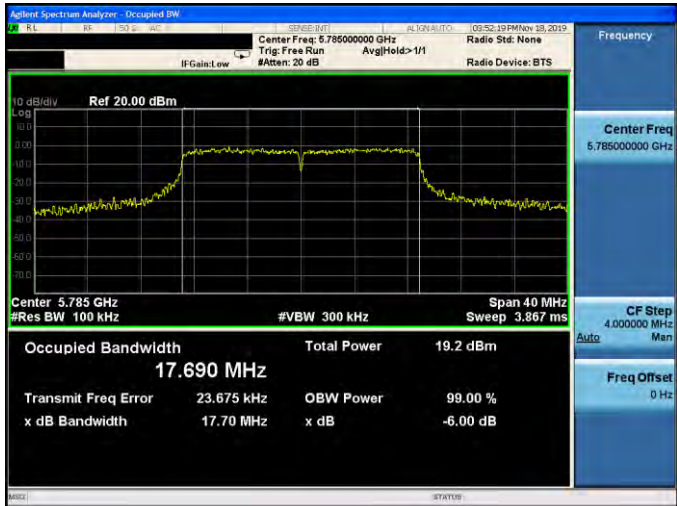
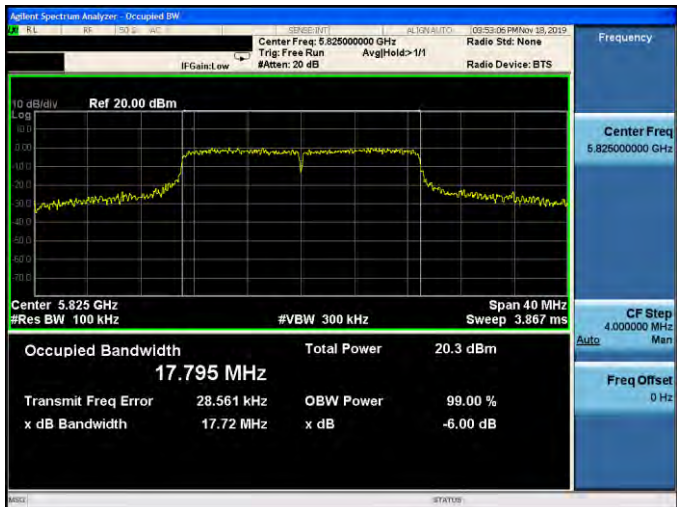
5755 MHz	 Ref 20.00 dBm Center 5.755 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 7.667 ms Occupied Bandwidth 36.252 MHz Total Power 18.8 dBm Transmit Freq Error -1.977 kHz OBW Power 99.00 % x dB Bandwidth 36.59 MHz x dB -6.00 dB
5795 MHz	 Ref 20.00 dBm Center 5.795 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 7.667 ms Occupied Bandwidth 36.230 MHz Total Power 18.6 dBm Transmit Freq Error 4.264 kHz OBW Power 99.00 % x dB Bandwidth 36.57 MHz x dB -6.00 dB

Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-0

5775 MHz	 Ref 20.00 dBm Center 5.775 GHz #Res BW 100 kHz #VBW 300 kHz Span 160 MHz Sweep 15.33 ms Occupied Bandwidth 75.644 MHz Total Power 19.4 dBm Transmit Freq Error -37.334 kHz OBW Power 99.00 % x dB Bandwidth 76.46 MHz x dB -6.00 dB
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Mode 2: IEEE 802.11a Continuous TX mode_ANT-1	
5745 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.745000000 GHz Trig: Free Run Ave/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.630 MHz Total Power 19.6 dBm Transmit Freq Error -2.977 kHz OBW Power 99.00 % x dB Bandwidth 16.58 MHz x dB -6.00 dB Frequency Center Freq 5.745000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
5785 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.785000000 GHz Trig: Free Run Ave/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.486 MHz Total Power 19.4 dBm Transmit Freq Error 16.133 kHz OBW Power 99.00 % x dB Bandwidth 16.46 MHz x dB -6.00 dB Frequency Center Freq 5.785000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
5825 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.825000000 GHz Trig: Free Run Ave/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 20.00 dBm Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.631 MHz Total Power 20.1 dBm Transmit Freq Error 18.471 kHz OBW Power 99.00 % x dB Bandwidth 16.54 MHz x dB -6.00 dB Frequency Center Freq 5.825000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-1	
5745 MHz	 Center Freq: 5.745 GHz #Res BW: 100 kHz #VBW: 300 kHz Sweep: 3.867 ms Occupied Bandwidth: 17.773 MHz Total Power: 20.1 dBm Transmit Freq Error: 1.059 kHz OBW Power: 99.00 % x dB Bandwidth: 17.75 MHz x dB: -6.00 dB
5785 MHz	 Center Freq: 5.785 GHz #Res BW: 100 kHz #VBW: 300 kHz Sweep: 3.867 ms Occupied Bandwidth: 17.690 MHz Total Power: 19.2 dBm Transmit Freq Error: 23.675 kHz OBW Power: 99.00 % x dB Bandwidth: 17.70 MHz x dB: -6.00 dB
5825 MHz	 Center Freq: 5.825 GHz #Res BW: 100 kHz #VBW: 300 kHz Sweep: 3.867 ms Occupied Bandwidth: 17.795 MHz Total Power: 20.3 dBm Transmit Freq Error: 28.561 kHz OBW Power: 99.00 % x dB Bandwidth: 17.72 MHz x dB: -6.00 dB

Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-1

5755 MHz	 Center Freq: 5.755 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 80 MHz Sweep: 7.667 ms Occupied Bandwidth: 36.304 MHz Total Power: 19.5 dBm Transmit Freq Error: 36.697 kHz OBW Power: 99.00 % x dB Bandwidth: 36.58 MHz x dB: -6.00 dB
5795 MHz	 Center Freq: 5.795 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 80 MHz Sweep: 7.667 ms Occupied Bandwidth: 36.398 MHz Total Power: 20.4 dBm Transmit Freq Error: 51.403 kHz OBW Power: 99.00 % x dB Bandwidth: 36.59 MHz x dB: -6.00 dB

Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-1

5775 MHz	 Center Freq: 5.775 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 160 MHz Sweep: 15.33 ms Occupied Bandwidth: 75.910 MHz Total Power: 19.7 dBm Transmit Freq Error: 144.01 kHz OBW Power: 99.00 % x dB Bandwidth: 76.45 MHz x dB: -6.00 dB
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Maximum Power Spectral Density Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	6.572	0.000	6.572	≤ 9.74
5200	6.158	0.000	6.158	
5240	6.323	0.000	6.323	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	6.362	0.000	6.362	≤ 9.74
5200	6.215	0.000	6.215	
5240	6.574	0.000	6.574	
Power Spectral Density and E.I.R.P. Spectral Density				
Frequency (MHz)	ANT-0+1			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5180.0	9.479			≤ 9.74
5200.0	9.197			
5240.0	9.461			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-2.199	0.000	4.791	≤ 28.74
5785	-2.232	0.000	4.758	
5825	-2.502	0.000	4.488	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-2.632	0.000	4.358	≤ 28.74
5785	-2.141	0.000	4.849	
5825	-3.186	0.000	3.804	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5745	7.590			≤ 28.74
5785	7.814			
5825	7.169			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10*Log(500 k/100 k)

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	5.221	0.000	5.221	≤ 9.74
5200	5.920	0.000	5.920	
5240	6.188	0.000	6.188	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	5.356	0.000	5.356	≤ 9.74
5200	5.901	0.000	5.901	
5240	6.359	0.000	6.359	
Power Spectral Density and E.I.R.P. Spectral Density				
Frequency (MHz)	ANT-0+1			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5180.0	8.299			≤ 9.74
5200.0	8.921			
5240.0	9.285			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-3.823	0.000	3.167	≤ 28.74
5785	-5.186	0.000	1.804	
5825	-4.688	0.000	2.302	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-5.044	0.000	1.946	≤ 28.74
5785	-5.866	0.000	1.124	
5825	-5.491	0.000	1.499	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5745	5.609			≤ 28.74
5785	4.487			
5825	4.929			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10*Log(500 k/100 k)

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	0.032	0.000	0.032	≤ 9.74
5230	2.523	0.000	2.523	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-0.128	0.000	-0.128	≤ 9.74
5230	2.805	0.000	2.805	
Power Spectral Density and E.I.R.P. Spectral Density				
Frequency (MHz)	ANT-0+1			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5190.0	2.963			≤ 9.74
5230.0	5.677			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-7.423	0.000	-0.433	≤ 28.74
5795	-7.573	0.000	-0.583	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-8.260	0.000	-1.270	≤ 28.74
5795	-8.864	0.000	-1.874	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5755	2.179			≤ 28.74
5795	1.829			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10*Log(500 k/100 k)

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-2.902	0.000	-2.902	≤ 9.74
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-3.592	0.000	-3.592	≤ 9.74
Power Spectral Density and E.I.R.P. Spectral Density				
Frequency (MHz)	ANT-0+1			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5210.0	-0.223			≤ 9.74

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode			
Conducted power spectral density				
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-9.379	0.000	-2.389	≤ 28.74
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-10.382	0.000	-3.392	≤ 28.74
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5775	0.148			≤ 28.74

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10*Log(500 k/100 k)

■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	

Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0

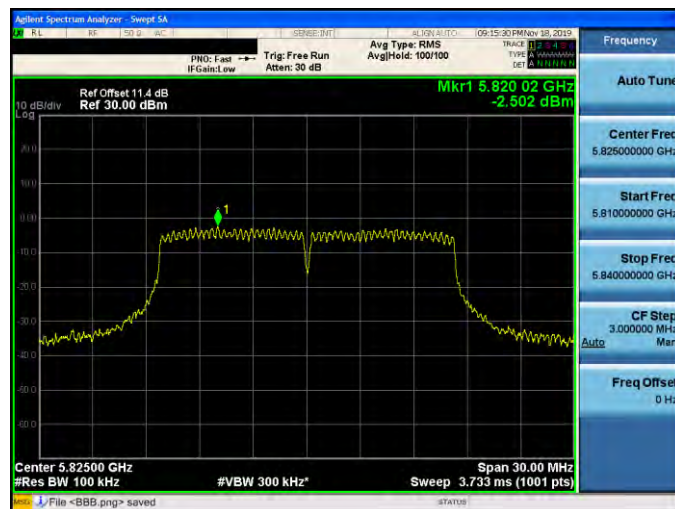
5745 MHz

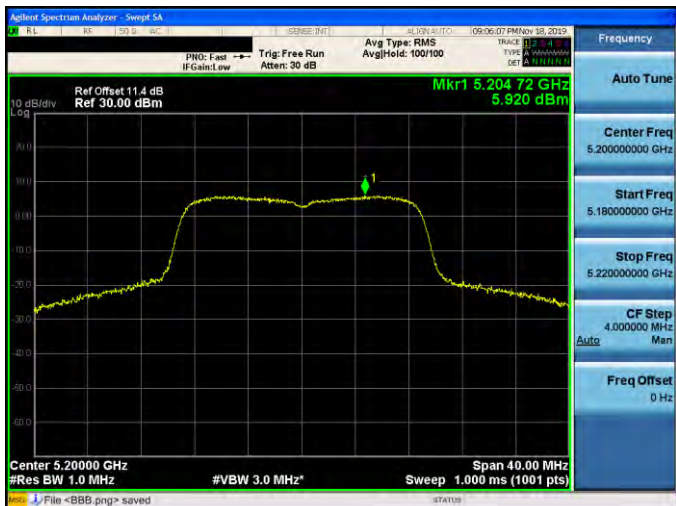


5785 MHz



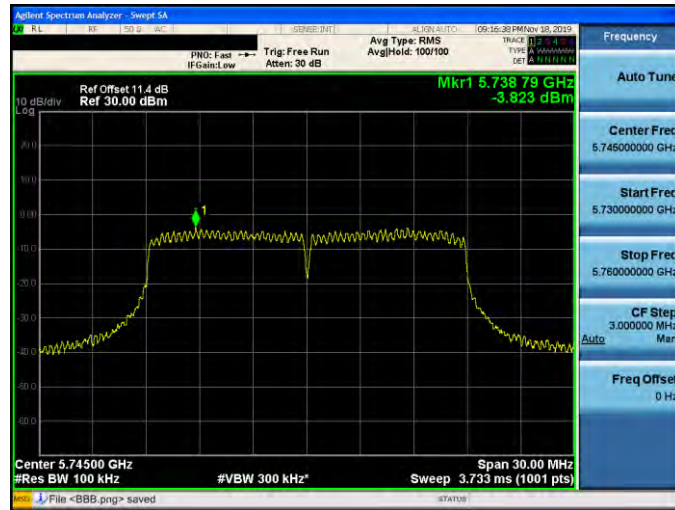
5825 MHz



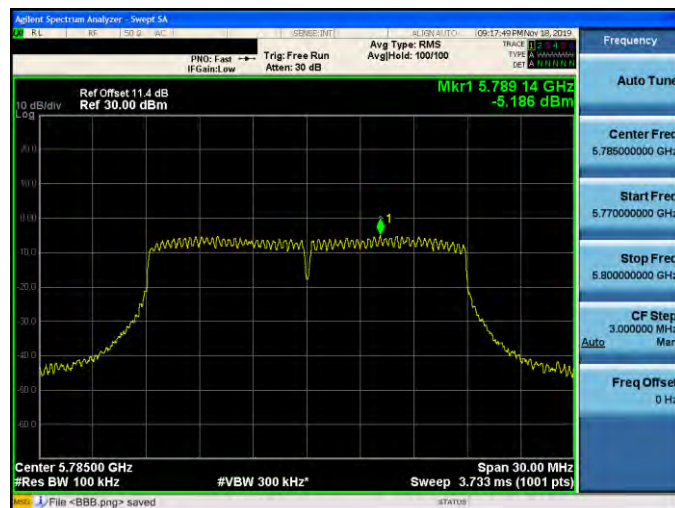
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-0

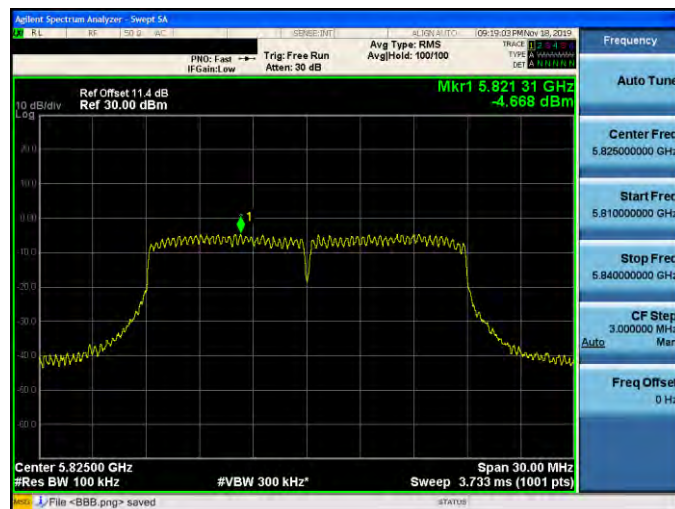
5745 MHz



5785 MHz

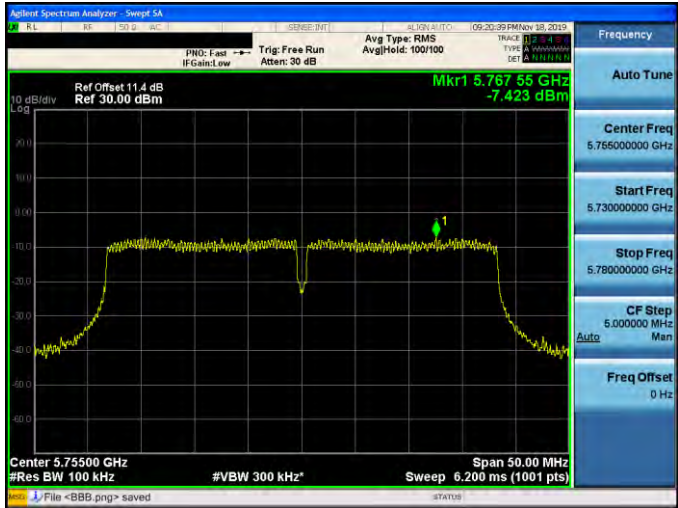
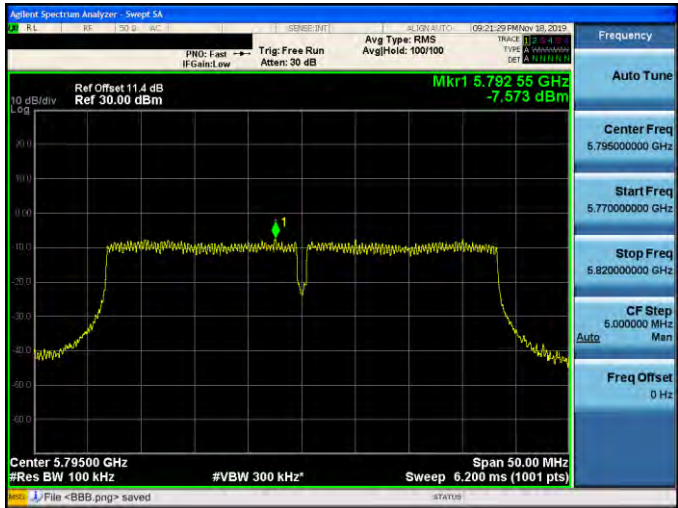


5825 MHz







Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ ANT-0	
5755 MHz	
5795 MHz	



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode _ ANT-0

5210 MHz



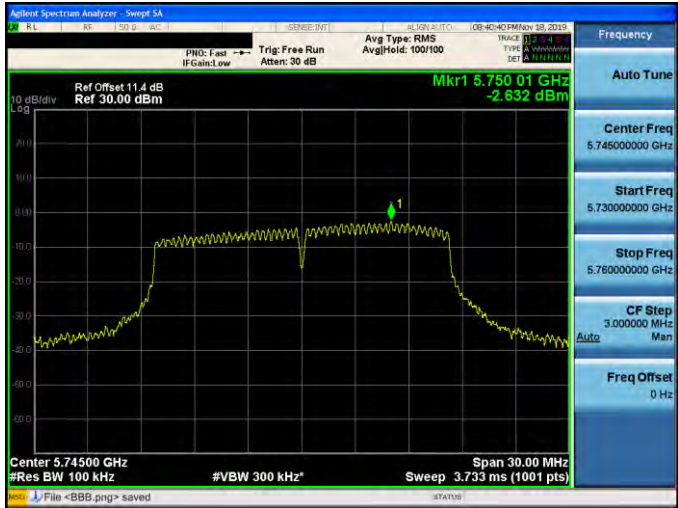
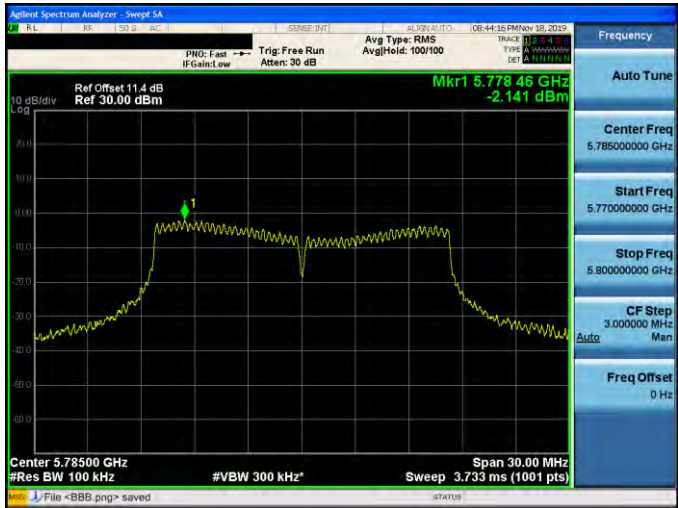
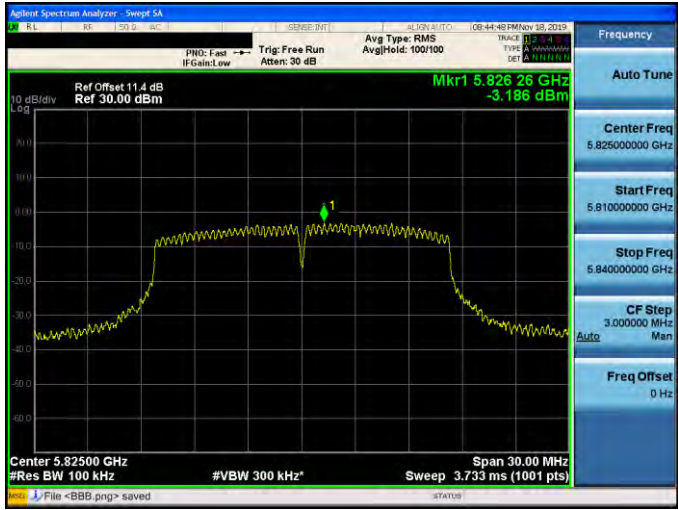
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode _ ANT-0

5775 MHz



Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	



Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1	
5745 MHz	
5785 MHz	
5825 MHz	

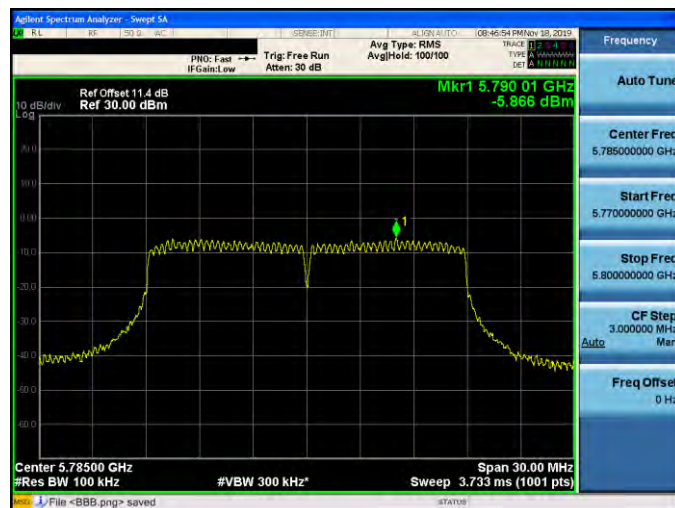
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-1

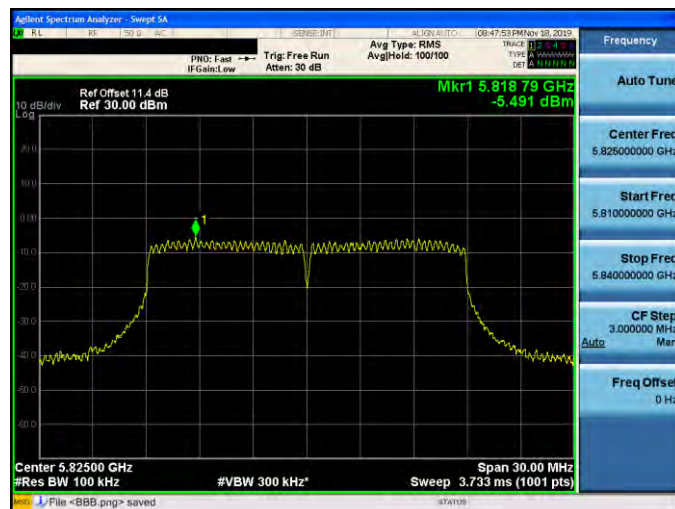
5745 MHz

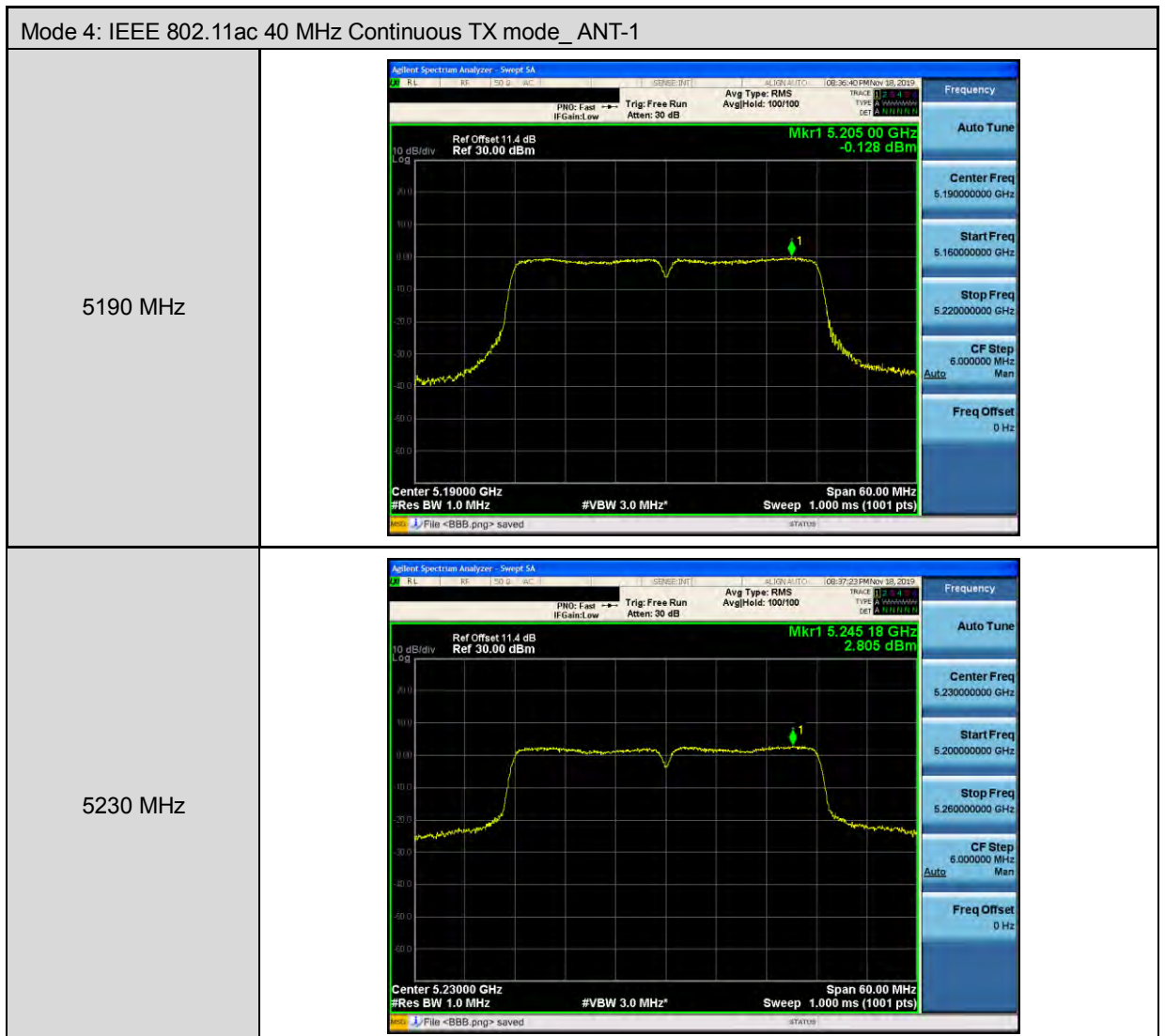


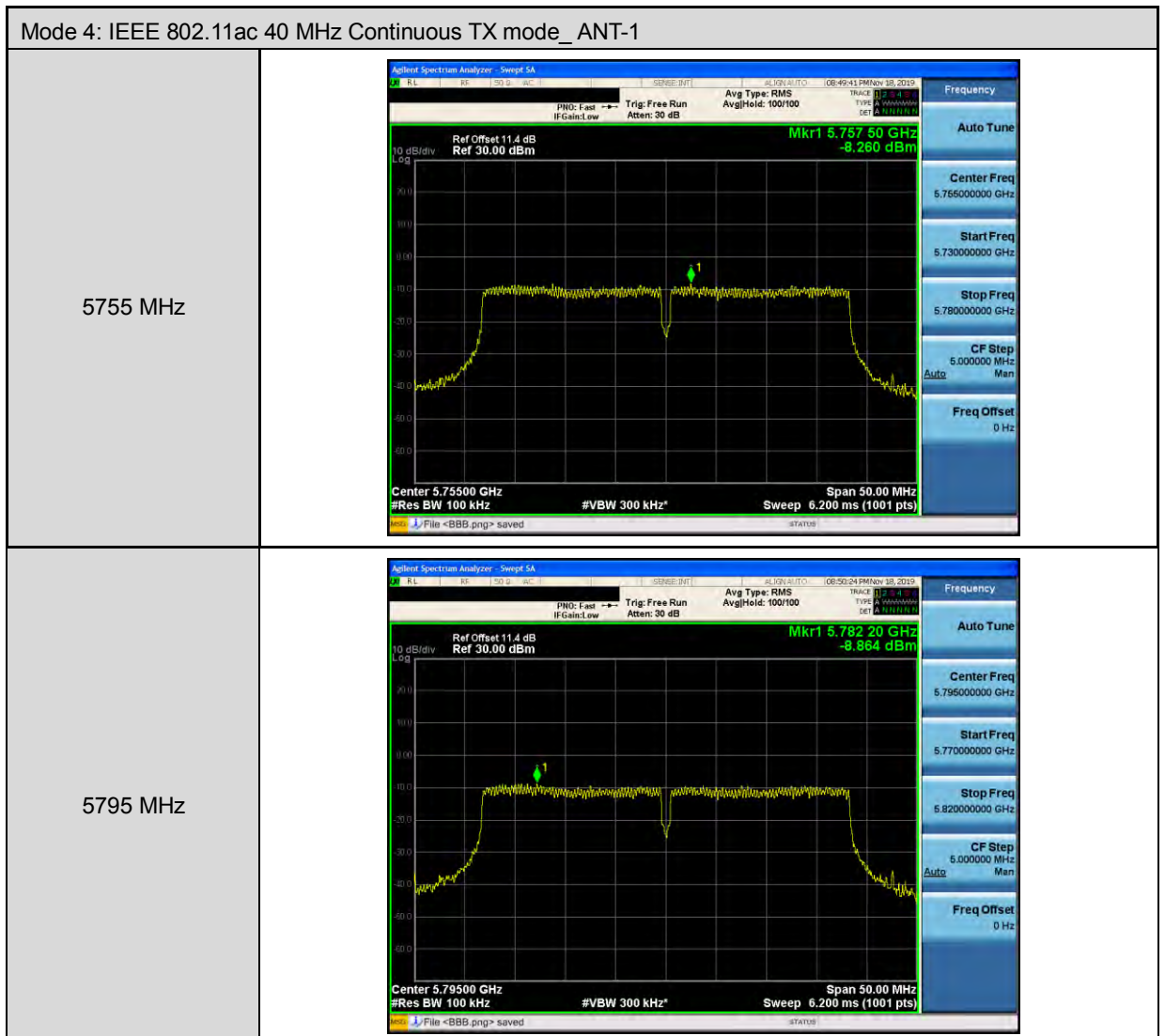
5785 MHz

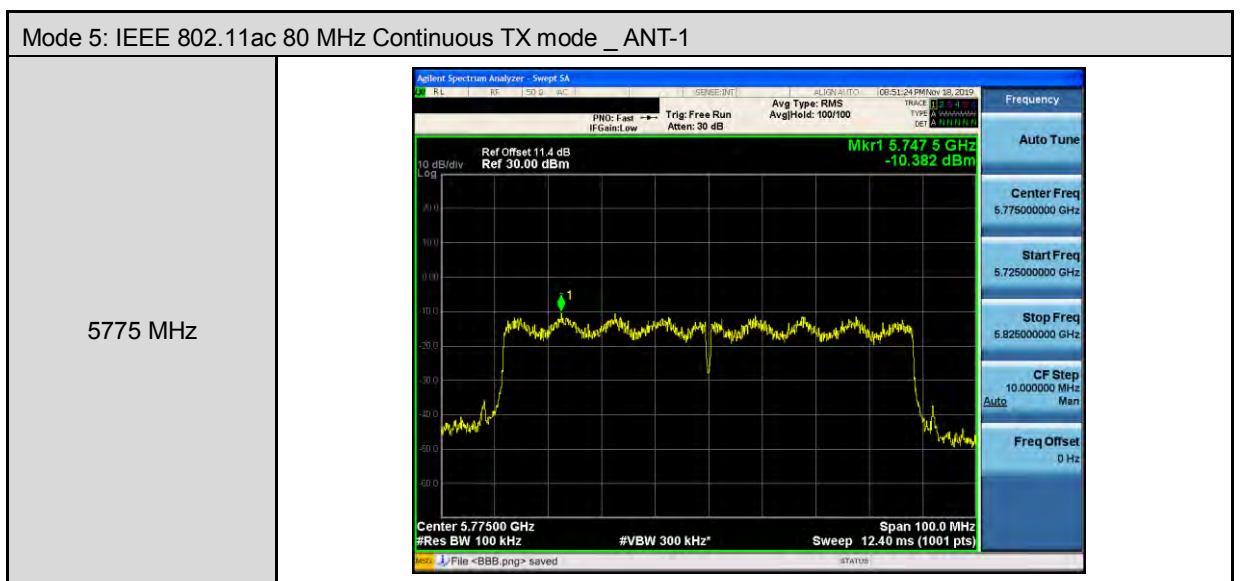
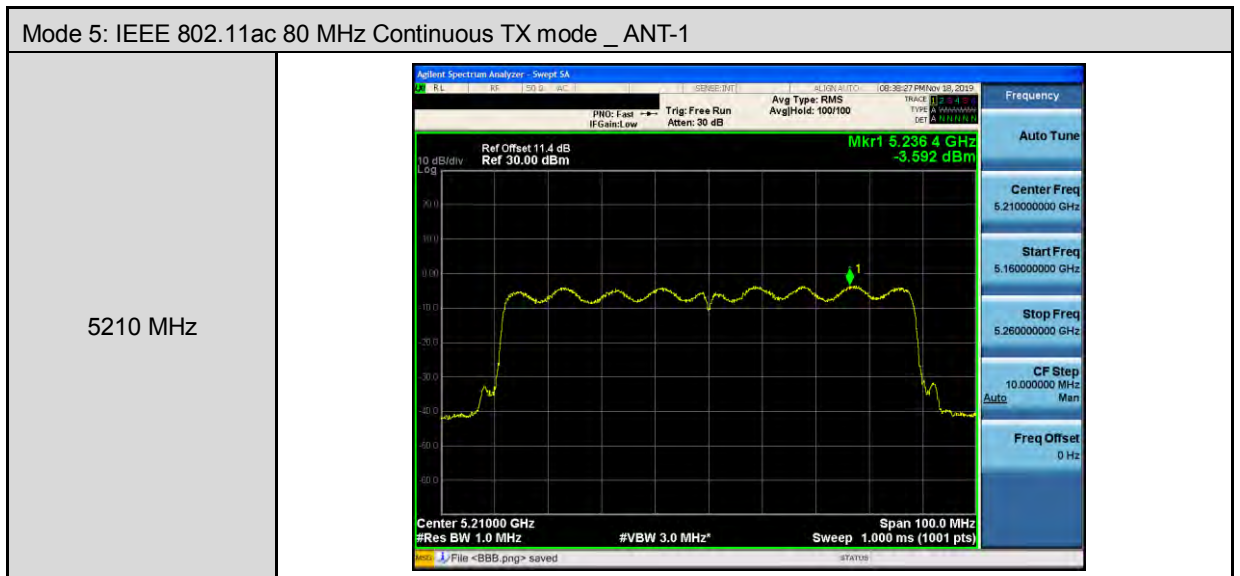


5825 MHz









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