

RF Test Report

Applicant : Edimax Technology Co., Ltd.

Product Name : AC600 Dual-Band Nano USB Adapter

Trade Name : EDIMAX

Model Number : EW-7811ULC

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

Received Date : Jul. 11, 2022

Test Period : Jul. 23 ~ Jul. 27, 2022

Issued Date : Sep. 08, 2022

Issued by

A Test Lab Techno Corp.
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Taoyuan City 334025, Taiwan (R.O.C.)
Tel : +886-3-2710188 / Fax : +886-3-2710190



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

Note:

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

Revision History

Rev.	Issued Date	Revisions	Revised By
00	Sep. 08, 2022	Initial Issue	Snow Wang

Verification of Compliance

Applicant : Edimax Technology Co., Ltd.

Product Name : AC600 Dual-Band Nano USB Adapter

Trade Name : EDIMAX

Model Number : EW-7811ULC

FCC ID : NDD9578112202

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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Taoyuan City 334025, Taiwan (R.O.C.)
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Taiwan Accreditation Foundation accreditation number: 1330



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 :

(Kai Yu Yang)

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1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.407(b)(9) 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	---

Decision Rule

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

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
CFR47, Part 15, Subpart E	Unlicensed National Information Infrastructure Devices
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB789033: D02	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
KDB 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB
Radiated Emission	9 kHz ~ 30 MHz	2.2 dB
	30 MHz ~ 1000 MHz	5.1 dB
	1000 MHz ~ 18000 MHz	5.2 dB
	18000 MHz ~ 26500 MHz	4.6 dB
	26500 MHz ~ 40000 MHz	4.6 dB
Conducted Output Power		1.1 dB
RF Bandwidth		4.7 %
Power Spectral Density		1.1 dB
Frequency Stability		1.3×10^{-7}
Duty Cycle		1.1 %
Time Occupancy		1.5 %

2 EUT Description

Applicant	Edimax Technology Co., Ltd. No. 278, Xinhua 1st Rd., Neihu Dist., Taipei City, Taiwan			
Product Name	AC600 Dual-Band Nano USB Adapter			
Trade Name	EDIMAX			
Model Number	EW-7811ULC			
FCC ID	NDD9578112202			
Operate Frequency	Frequency Band		Frequency Range (MHz)	Number of Channels
	IEEE 802.11a	U-NII Band 1	5180 – 5240	4
		U-NII Band 3	5745 – 5825	3
	IEEE 802.11n 5 GHz 20 MHz / IEEE 802.11ac 20 MHz	U-NII Band 1	5180 – 5240	4
		U-NII Band 3	5745 – 5825	3
	IEEE 802.11n 5 GHz 40 MHz / IEEE 802.11ac 40 MHz	U-NII Band 1	5190 – 5230	2
		U-NII Band 3	5755 – 5795	2
	IEEE 802.11ac 80 MHz	U-NII Band 1	5210	1
		U-NII Band 3	5775	1
Modulation Type	OFDM			
Antenna information	Antenna	Model	Type	Max. Gain (dBi)
	ANT-0	ALX18M-222AA6	PIFA antenna	3.93
Antenna Delivery	Reference section 3.1			
Operate Temp. Range	0 ~ 40 °C			
EUT Power Rating	DC 5 V			

Frequency Band		RF Output Power (W)
IEEE 802.11a	U-NII Band 1	0.027
	U-NII Band 3	0.027
IEEE 802.11n 5 GHz 20 MHz	U-NII Band 1	0.027
	U-NII Band 3	0.026
IEEE 802.11n 5 GHz 40 MHz	U-NII Band 1	0.027
	U-NII Band 3	0.028
IEEE 802.11ac 20 MHz	U-NII Band 1	0.027
	U-NII Band 3	0.026
IEEE 802.11ac 40 MHz	U-NII Band 1	0.028
	U-NII Band 3	0.028
IEEE 802.11ac 80 MHz	U-NII Band 1	0.027
	U-NII Band 3	0.028

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

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:

Pre-Test Mode
Mode 1: Transmit Mode
Mode 2: IEEE 802.11a Continuous TX Mode
Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode
Mode 4: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode
Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode
Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode
Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode

Final-Test Mode
Mode 1: Transmit Mode
Mode 2: IEEE 802.11a Continuous TX Mode
Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode
Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode
Mode 7: 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.

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

Note 1: Investigation has been done on all the possible configurations for searching the worst cases (VHT20/VHT40 covers HT20/HT40). The table is a list of the test modes show in this test report.

Test Mode	ANT-0
Mode 2	V
Mode 3	V
Mode 4	V
Mode 5	V
Mode 6	V
Mode 7	V

Test Mode	Antenna Delivery	Data Rate (Mbps)	Band	Test Channel
Mode 2	1TX	6	U-NII Band 1	36, 40, 48
			U-NII Band 3	149, 157, 165
Mode 3	1TX	6.5	U-NII Band 1	36, 40, 48
			U-NII Band 3	149, 157, 165
Mode 4	1TX	13.5	U-NII Band 1	38, 46
			U-NII Band 3	151, 159
Mode 5	1TX	6.5	U-NII Band 1	36, 40, 48
			U-NII Band 3	149, 157, 165
Mode 6	1TX	13.5	U-NII Band 1	38, 46
			U-NII Band 3	151, 159
Mode 7	1TX	29.3	U-NII Band 1	42
			U-NII Band 3	155

3.2. EUT Test Step

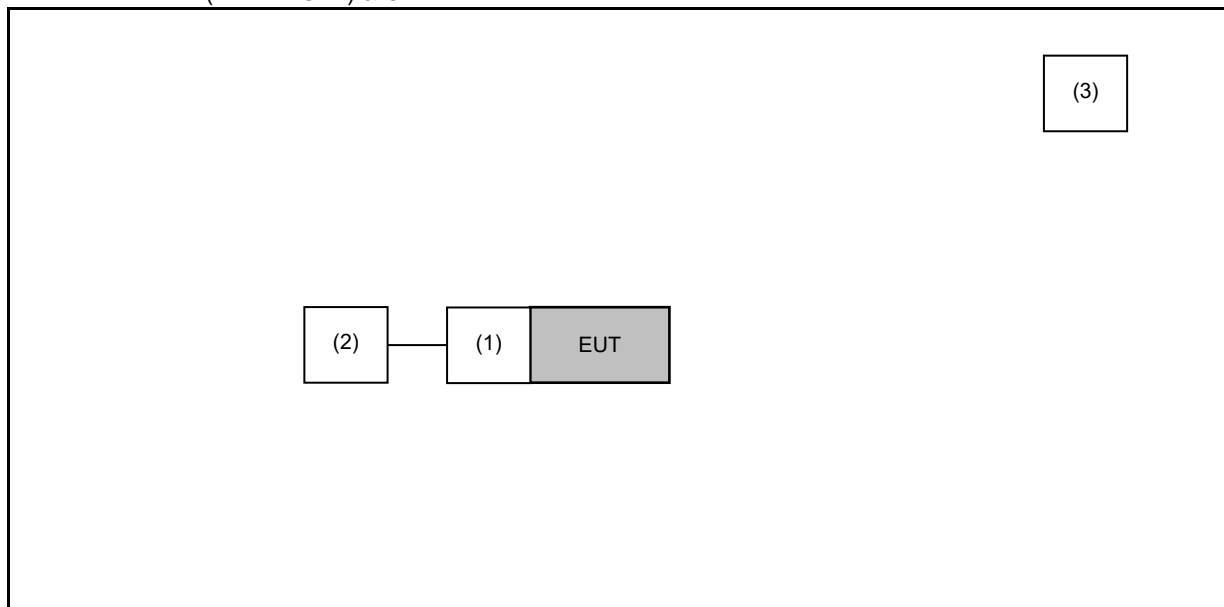
The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement.

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

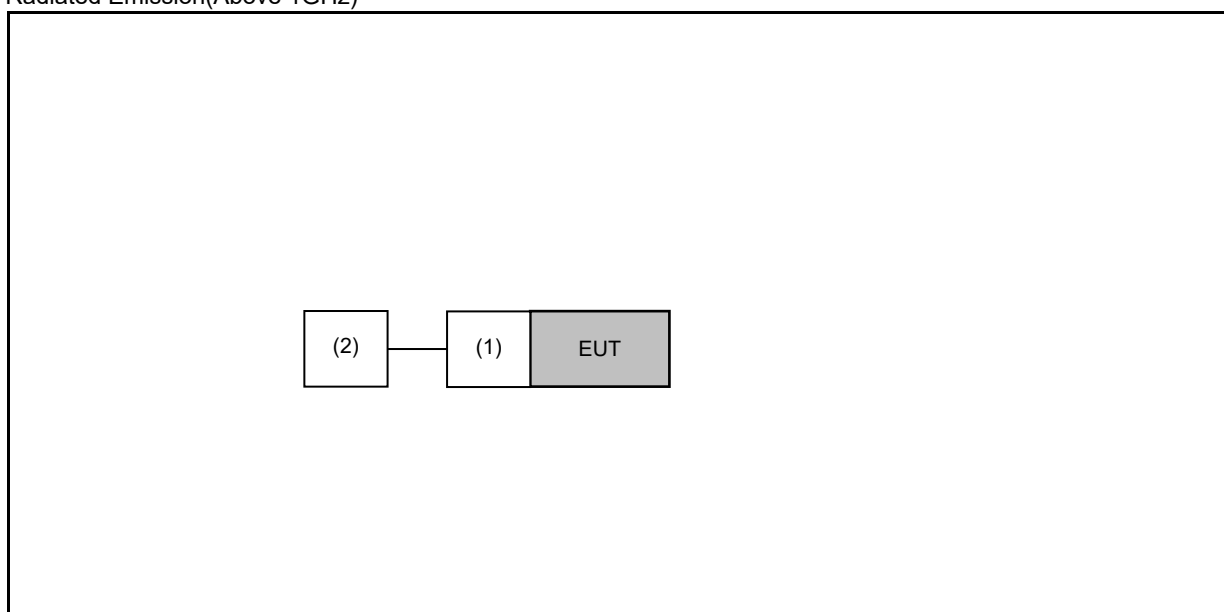
1.	Setup the EUT shown on "Configuration of Test System Details".
2.	Turn on the power of all equipment.
3.	Turn on TX function.
4.	EUT run test program.

3.1. Configuration of Test System Details

Radiated Emission(Below 1GHz) & Conducted Emission



Radiated Emission(Above 1GHz)



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	ASUS	P1448U	---	---
(2)	AC Adapter	ASUS	ADP-65GD D	---	Non-Shielded, 0.8 m
(3)	Access Point	ASUS	RT-AX88U	---	---

3.2. Test Instruments

For Conducted Emission

Test Period: Jul. 23, 2022

Testing Engineer: Chi Chang

Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Test Receiver	R&S	ESCI	100367	May 19, 2022	1 year
☒	LISN	R&S	ENV216	101040	Apr. 06, 2022	1 year
☒	RF Cable	Woken	00100D1380194M	TE-02-03	May 27, 2022	1 year
☒	Software	EZ EMC	1.1.4.3	N/A	N.C.R.	---

For Conducted

Test Period: Jul. 25 ~ Jul. 27, 2022

Testing Engineer: Jeremy Lin

Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Spectrum Analyzer (10 Hz~44 GHz)	R&S	FSV3044	101255	Dec. 20, 2021	1 year
☒	Switch Box	R&S	OSP-B157W8	100850	Dec. 20, 2021	1 year

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

For Radiated Emissions

Test Period: Jul. 25 ~ Jul. 26, 2022

Testing Engineer: Hung Chou, Amy Wen, Marc Yeh

Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Spectrum Analyzer (2 Hz~50 GHz)	Keysight	N9030B	MY57143537	Apr. 14, 2022	1 year
☒	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 14, 2022	1 year
☒	Amplifier (1 GHz~26.5 GHz)	Agilent	8449B	3008A02237	Oct. 21, 2021	1 year
☒	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Aug. 19, 2021	1 year
☒	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 28, 2022	1 year
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	416	Nov. 17, 2021	1 year
☒	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	9120D-550	Aug. 24, 2021	1 year
☒	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Aug. 24, 2021	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A100	J11005	Aug. 06, 2021	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A900	J11004	Aug. 06, 2021	1 year
☒	Coaxial Cable	Titan	CFD400NL-LW	001	Aug. 06, 2021	1 year
☒	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

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

3.3. Test Site Environment

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

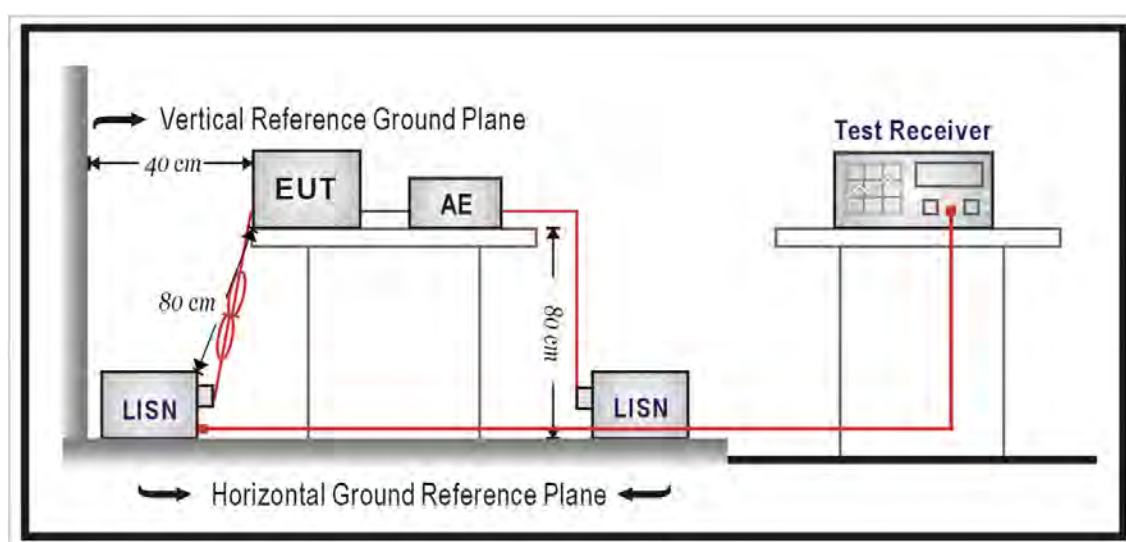
4 Measurement Procedure

4.1. AC Power 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)(9) 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.

EIRP (dBm)	Field Strength at 3 m(dBuV/m)
-27	68.3

(2) Limits of Radiated Emission Measurement

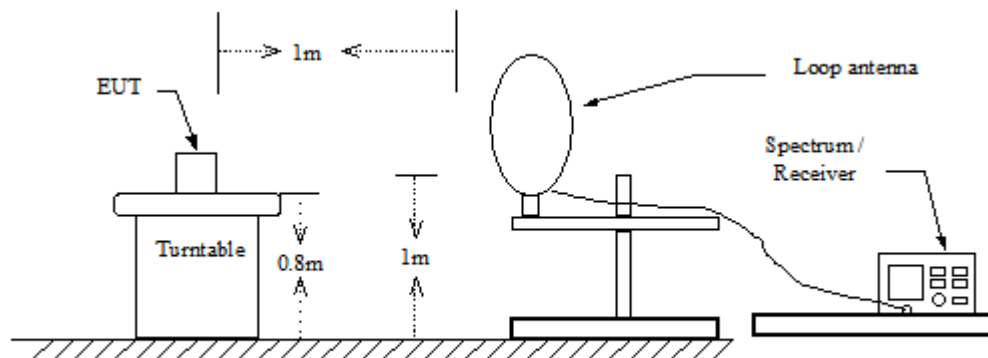
Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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

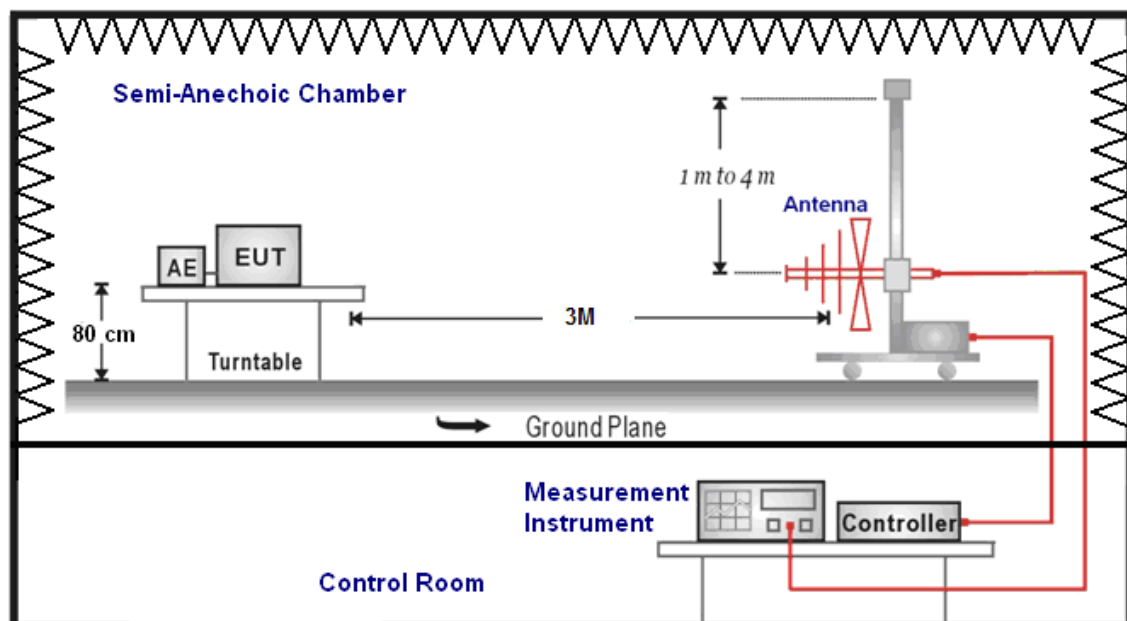
- Note:
1. The lower limit shall apply at the transition frequencies.
 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
 3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not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

■ Setup

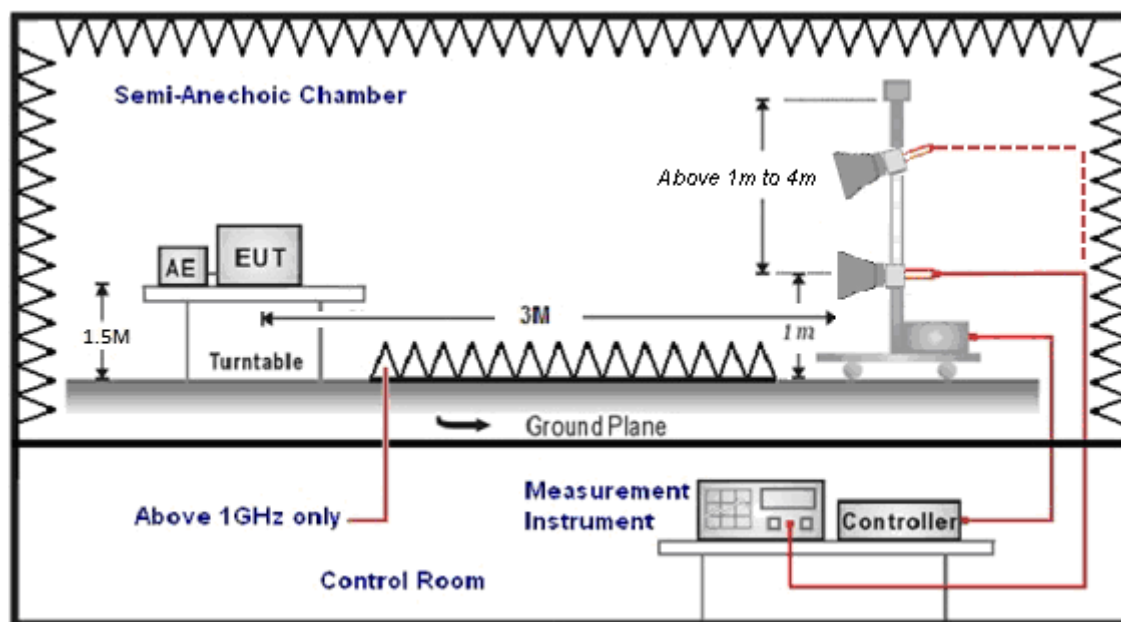
9 kHz ~ 30 MHz



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).

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

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

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

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

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

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

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

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

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

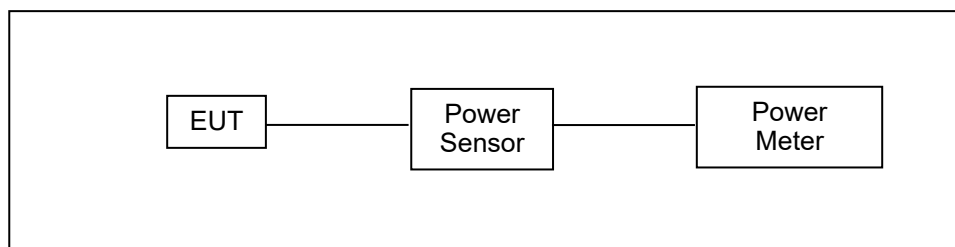
4.3. Maximum Conducted Output Power Measurement

■ Limit

Frequency Range (MHz)	FCC Maximum Conducted Output Power Limit
	Client
5.150 ~ 5.250 GHz	The lesser of 250 mW (24 dBm)
5.725 ~ 5.850 GHz	The lesser of 1 W (30 dBm)

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

■ 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)

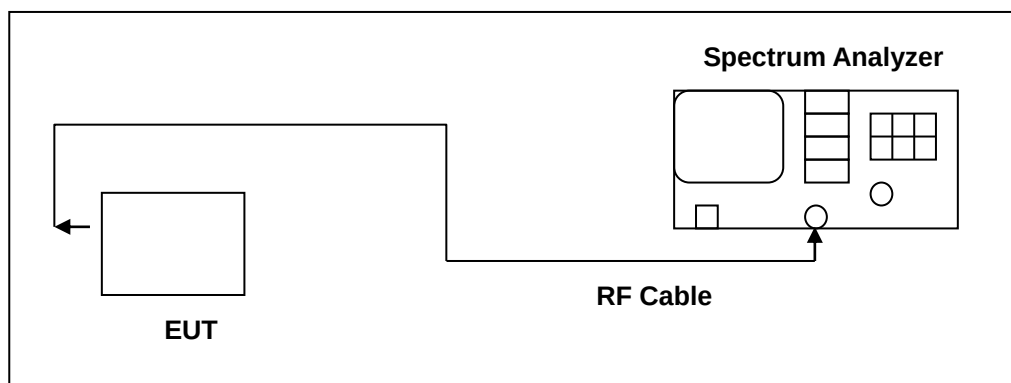
b) Method PM-G (Measurement using a gated RF average power meter)

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

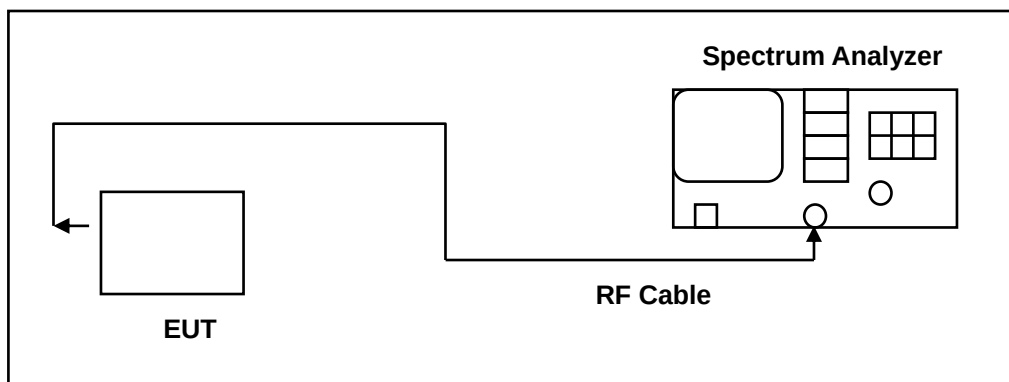
4.5. 6 dB RF Bandwidth Measurement

■ 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.

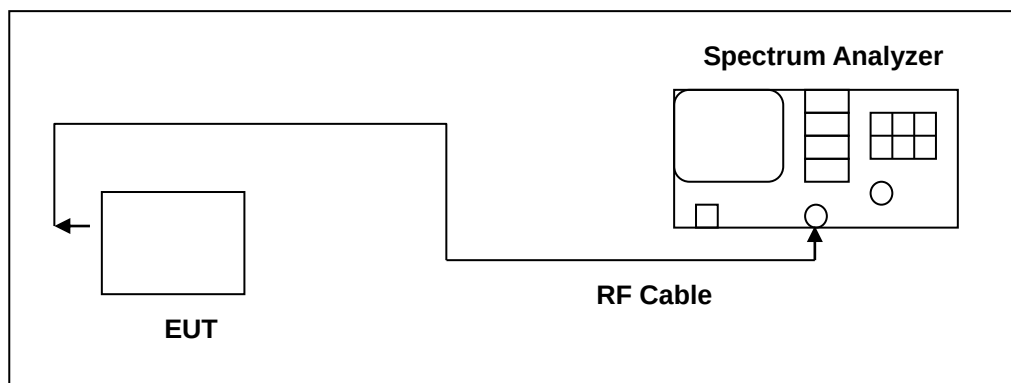
4.6. Maximum Power Spectral Density Measurement

■ Limit

Frequency Range (MHz)	FCC Limit
	Client
5.150 ~ 5.250 GHz	11 dBm/MHz
5.725 ~ 5.850 GHz	30 dBm/500 kHz

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

■ 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.

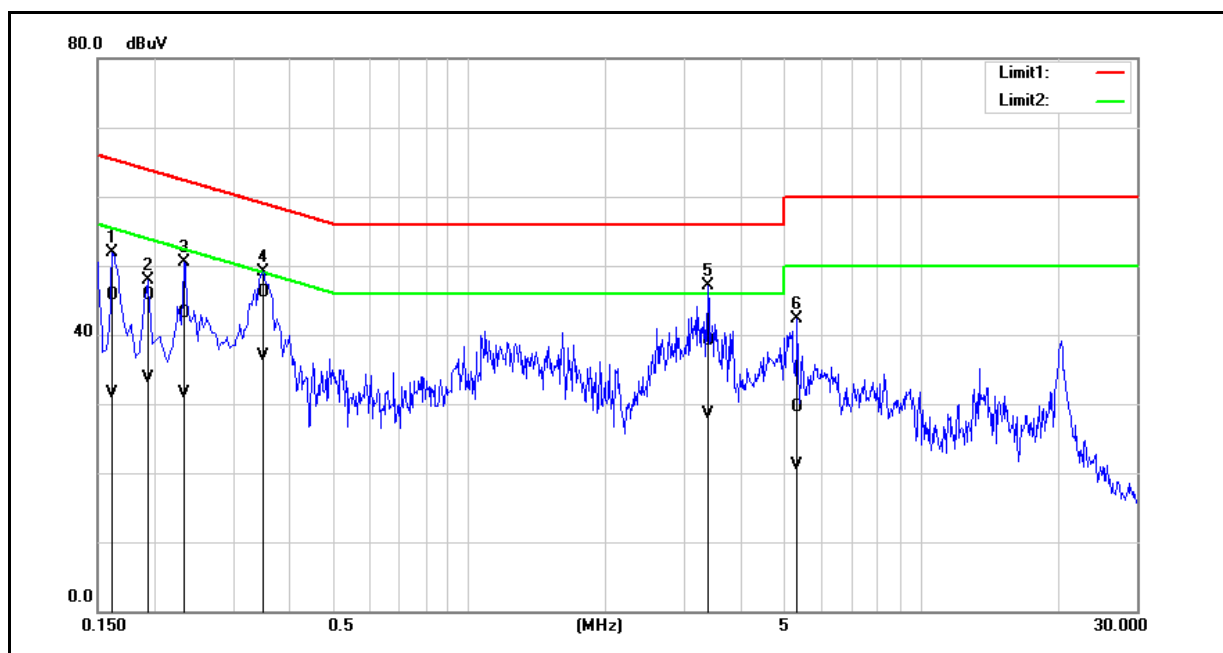
■ Antenna Connector Construction

See section 2 – antenna information.

5 Test Results

5.1 Conducted Emission

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1		
Description:			

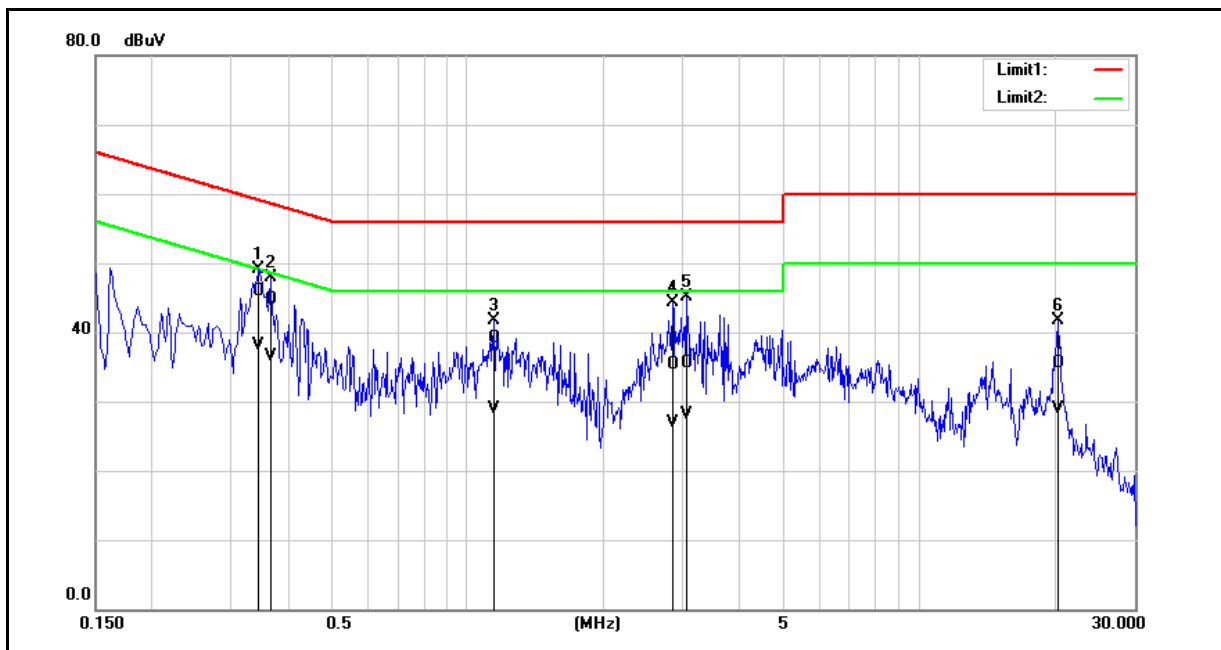


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1620	36.17	21.92	9.54	45.71	31.46	65.36	55.36	-19.65	-23.90	Pass
2	0.1940	36.14	24.21	9.54	45.68	33.75	63.86	53.86	-18.18	-20.11	Pass
3	0.2340	33.53	21.87	9.54	43.07	31.41	62.31	52.31	-19.24	-20.90	Pass
4	0.3500	36.48	27.43	9.54	46.02	36.97	58.96	48.96	-12.94	-11.99	Pass
5	3.3700	29.39	18.83	9.65	39.04	28.48	56.00	46.00	-16.96	-17.52	Pass
6	5.3180	19.74	11.45	9.70	29.44	21.15	60.00	50.00	-30.56	-28.85	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		
Description:			



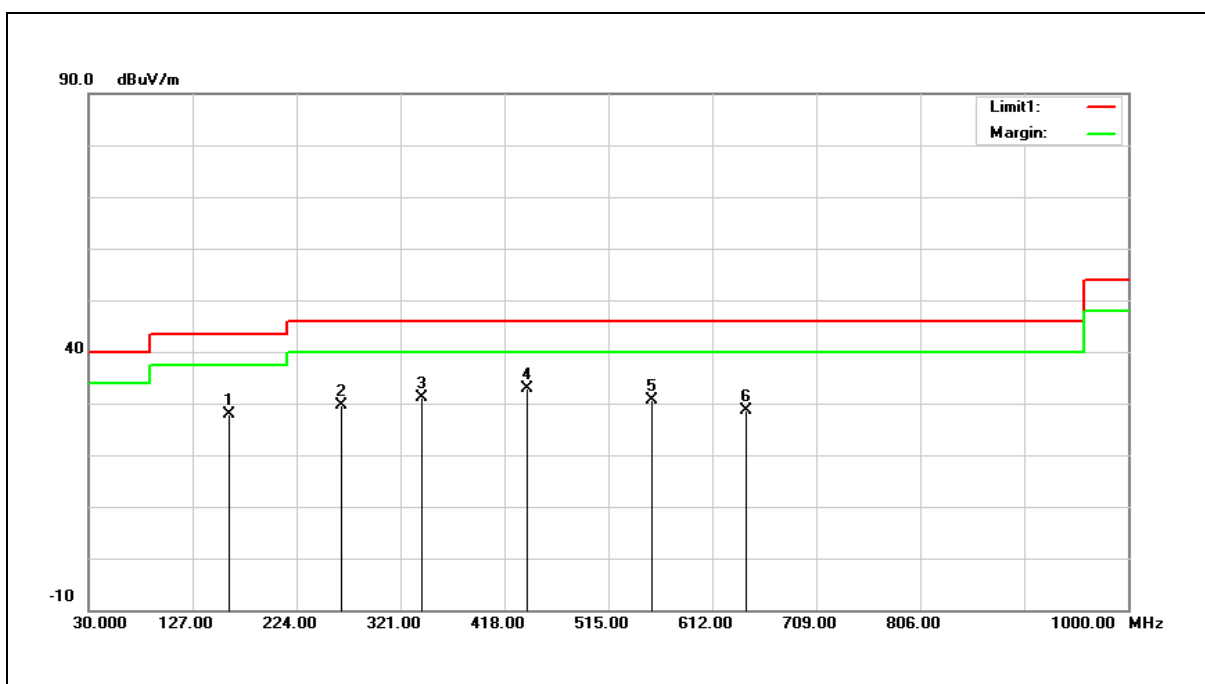
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.3460	36.21	28.44	9.60	45.81	38.04	59.06	49.06	-13.25	-11.02	Pass
2	0.3660	35.13	26.96	9.61	44.74	36.57	58.59	48.59	-13.85	-12.02	Pass
3	1.1420	29.46	19.35	9.64	39.10	28.99	56.00	46.00	-16.90	-17.01	Pass
4	2.8540	25.67	17.17	9.70	35.37	26.87	56.00	46.00	-20.63	-19.13	Pass
5	3.0500	25.75	18.46	9.71	35.46	28.17	56.00	46.00	-20.54	-17.83	Pass
6	20.3220	25.51	18.87	10.03	35.54	28.90	60.00	50.00	-24.46	-21.10	Pass

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

5.2 Radiated Emission Measurement

Below 1 GHz

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Radiated Emission		
Mode:	Mode 1		
Ant.Polar.:	Horizontal		



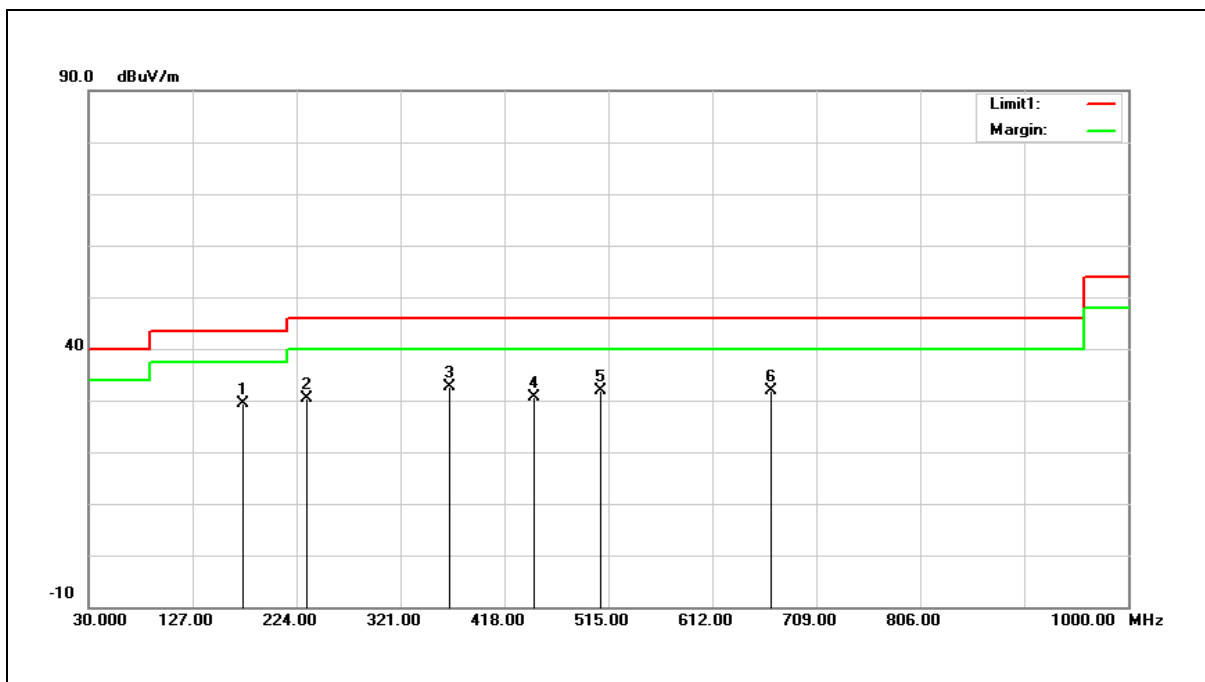
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	160.9500	34.83	-6.85	27.98	43.50	-15.52	QP
2	265.7100	36.67	-7.15	29.52	46.00	-16.48	QP
3	341.3700	36.92	-5.68	31.24	46.00	-14.76	QP
4	439.3400	35.94	-3.08	32.86	46.00	-13.14	QP
5	555.7400	31.58	-0.95	30.63	46.00	-15.37	QP
6	644.0100	27.31	1.28	28.59	46.00	-17.41	QP

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

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-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:	Radiated Emission		
Mode:	Mode 1		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	174.5300	37.33	-7.93	29.40	43.50	-14.10	QP
2	233.7000	39.45	-9.06	30.39	46.00	-15.61	QP
3	366.5900	37.74	-4.99	32.75	46.00	-13.25	QP
4	445.1600	33.51	-2.97	30.54	46.00	-15.46	QP
5	507.2400	33.60	-1.82	31.78	46.00	-14.22	QP
6	666.3200	30.12	1.72	31.84	46.00	-14.16	QP

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

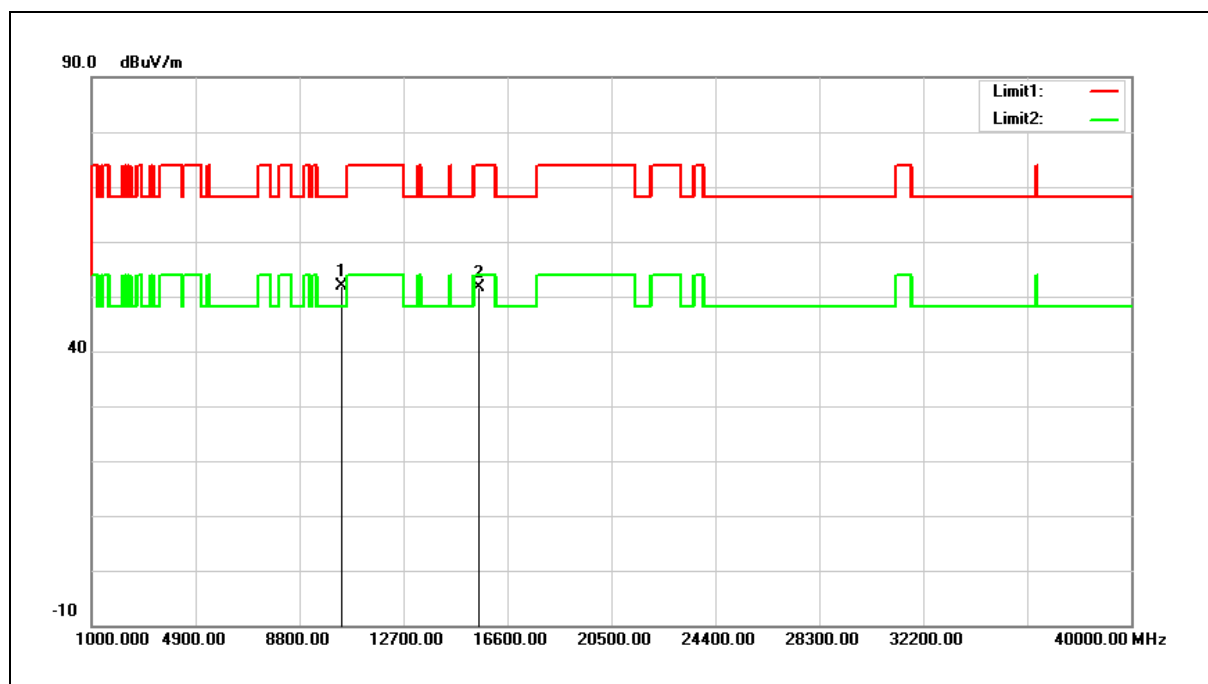
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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		
Frequency:	5180 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



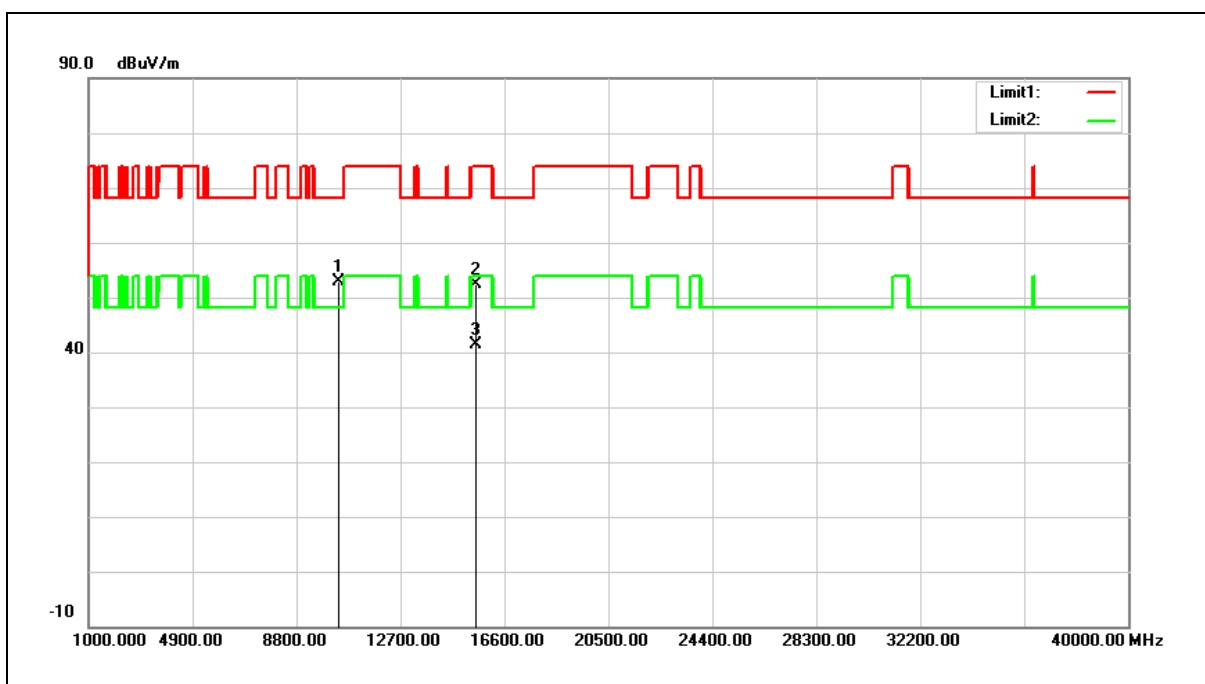
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	35.88	16.07	51.95	68.20	-16.25	peak
2	15540.000	33.53	18.03	51.56	74.00	-22.44	peak

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		
Frequency:	5180 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



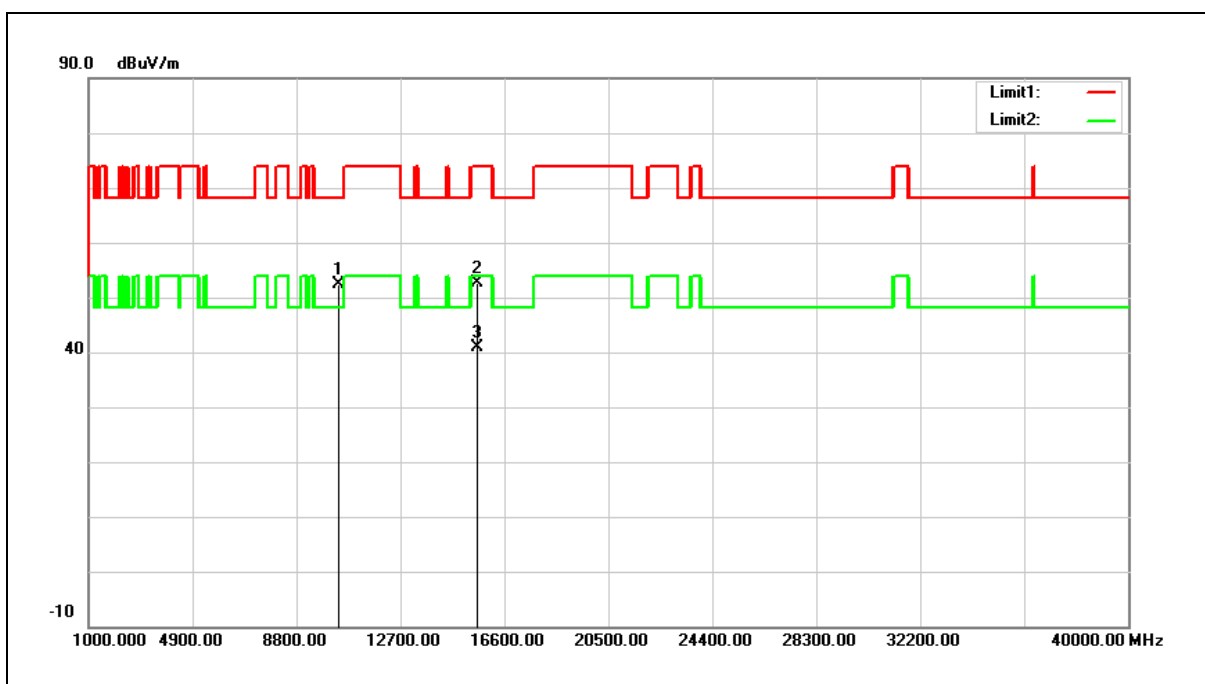
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	36.70	16.07	52.77	68.20	-15.43	peak
2	15540.000	34.44	18.03	52.47	74.00	-21.53	peak
3	15540.000	23.24	18.03	41.27	54.00	-12.73	AVG

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		
Frequency:	5200 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



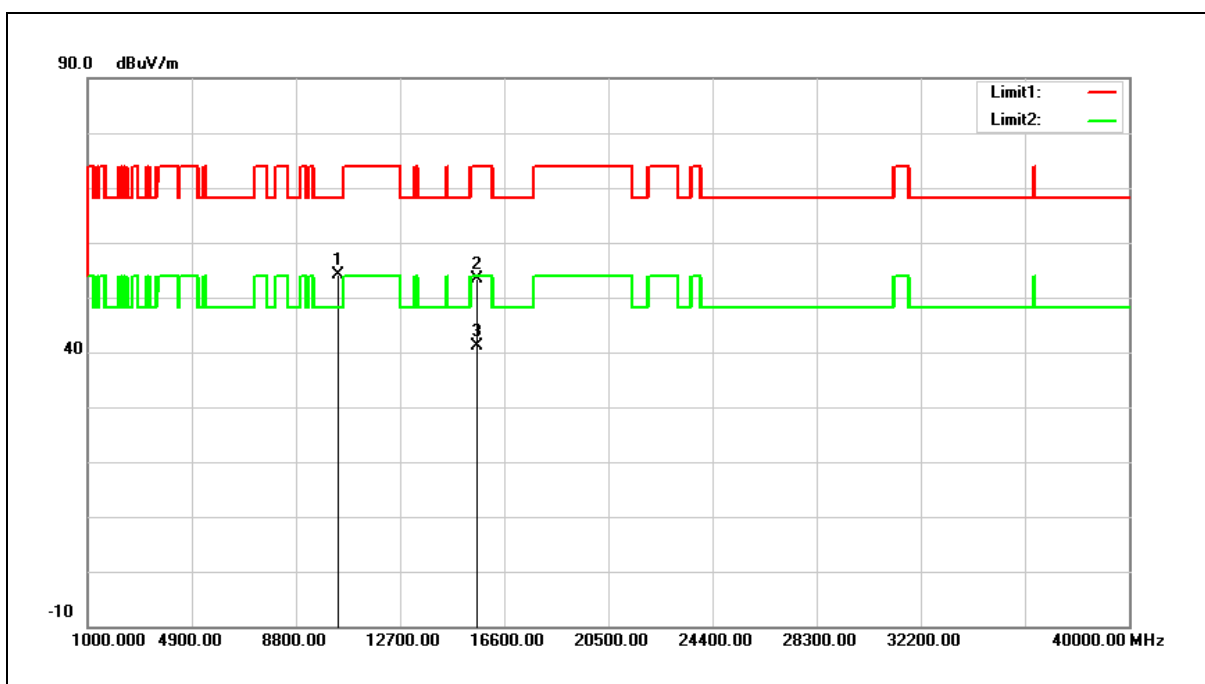
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	36.16	16.18	52.34	68.20	-15.86	peak
2	15600.000	34.76	17.76	52.52	74.00	-21.48	peak
3	15600.000	23.15	17.76	40.91	54.00	-13.09	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5200 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



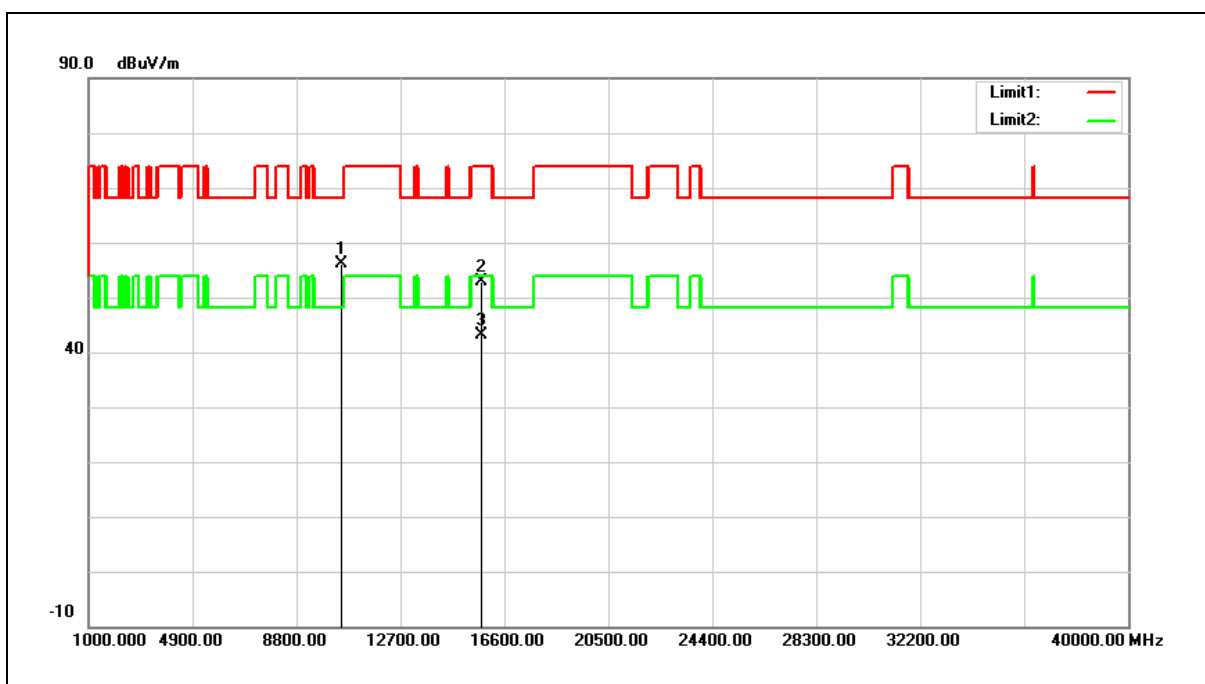
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	38.05	16.18	54.23	68.20	-13.97	peak
2	15600.000	35.55	17.76	53.31	74.00	-20.69	peak
3	15600.000	23.27	17.76	41.03	54.00	-12.97	AVG

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		
Frequency:	5240 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



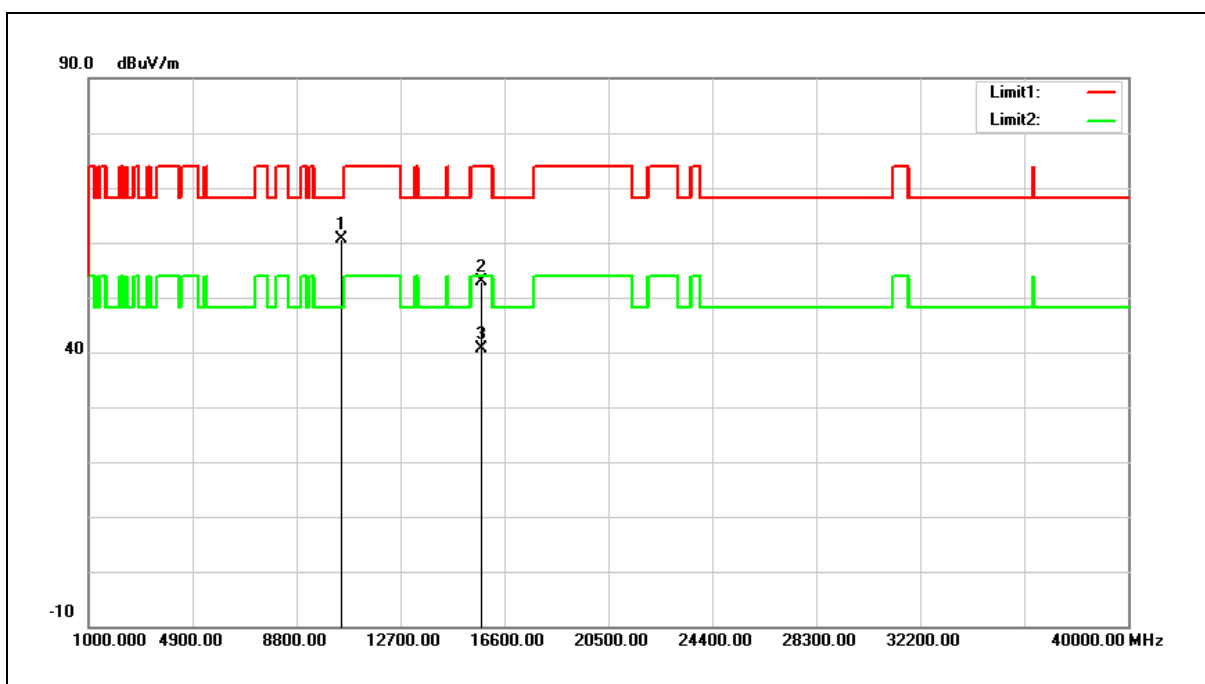
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	39.66	16.38	56.04	68.20	-12.16	peak
2	15720.000	35.57	17.22	52.79	74.00	-21.21	peak
3	15720.000	25.87	17.22	43.09	54.00	-10.91	AVG

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		
Frequency:	5240 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



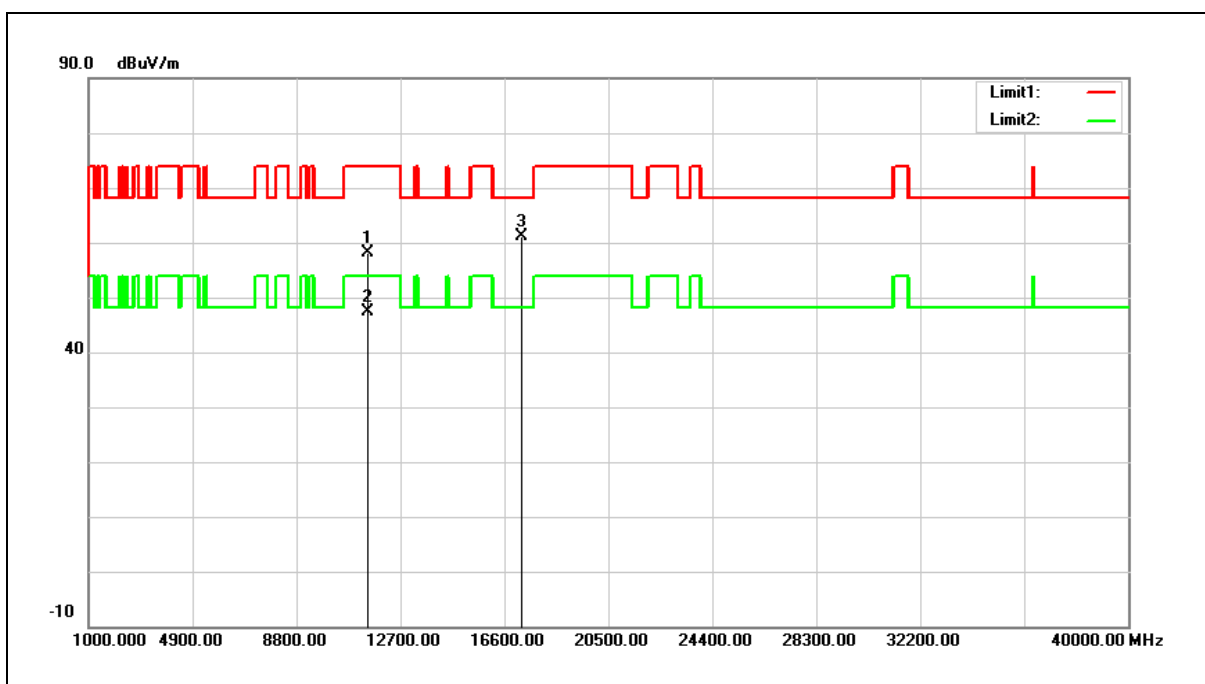
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	44.23	16.38	60.61	68.20	-7.59	peak
2	15720.000	35.58	17.22	52.80	74.00	-21.20	peak
3	15720.000	23.48	17.22	40.70	54.00	-13.30	AVG

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		
Frequency:	5745 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



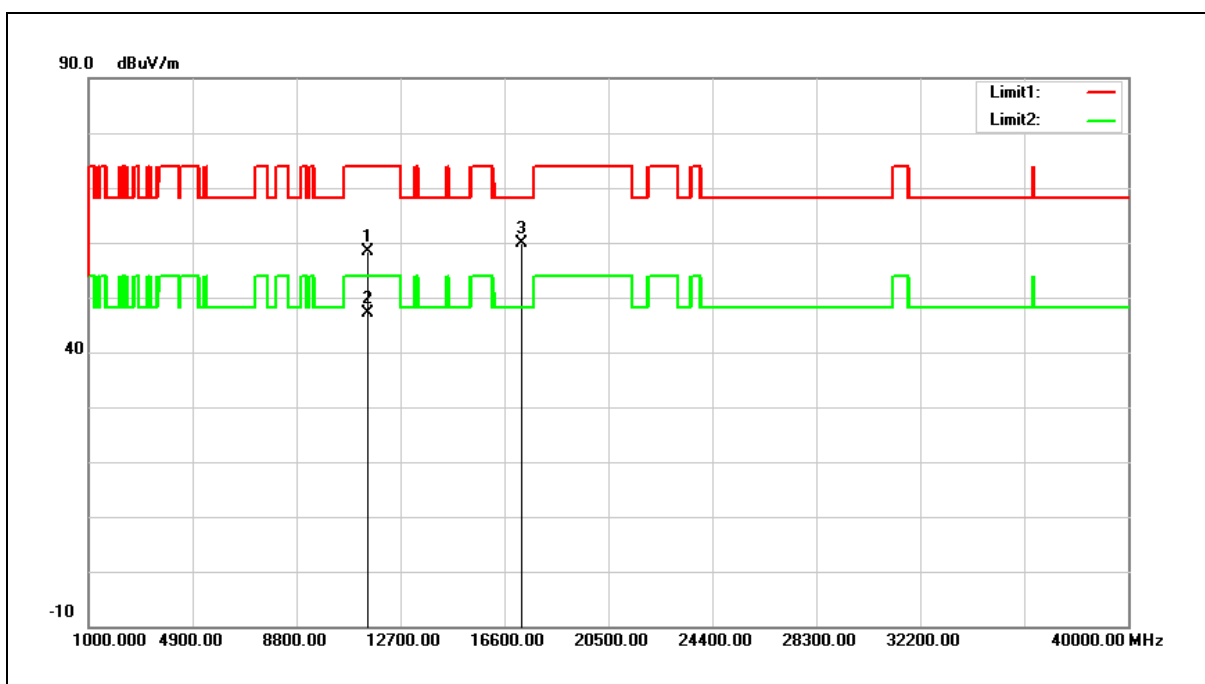
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	40.01	18.19	58.20	74.00	-15.80	peak
2	11490.000	29.13	18.19	47.32	54.00	-6.68	AVG
3	17235.000	37.66	23.43	61.09	68.20	-7.11	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5745 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



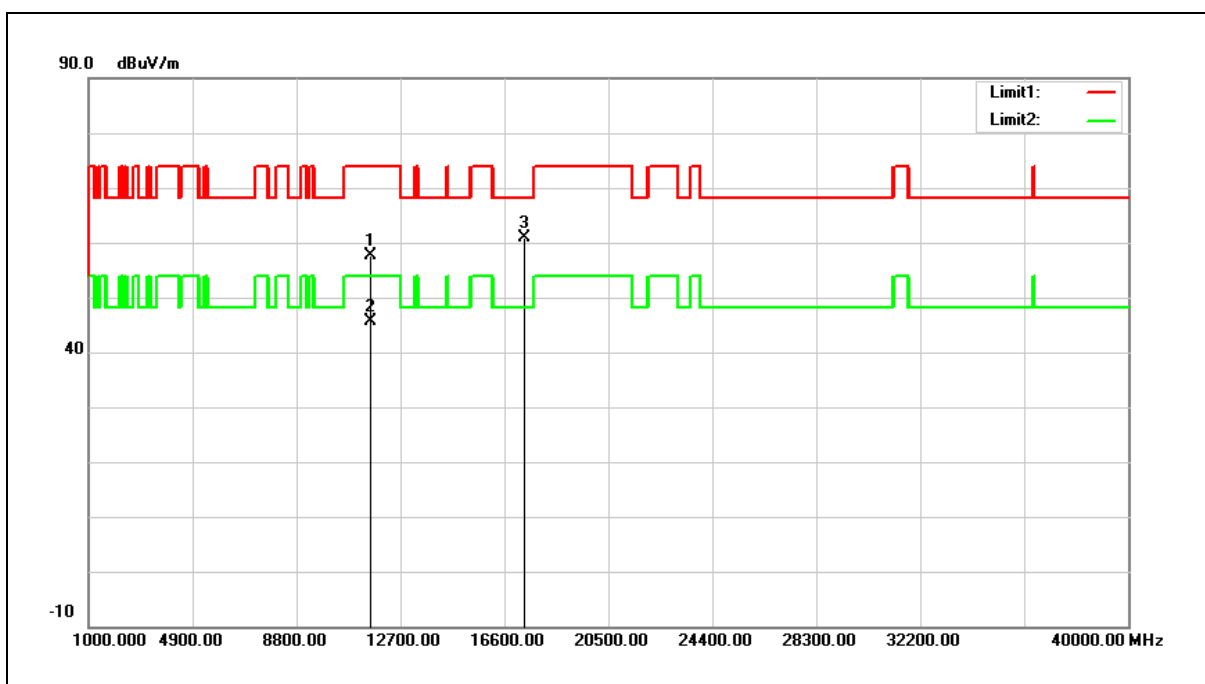
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	40.23	18.19	58.42	74.00	-15.58	peak
2	11490.000	28.97	18.19	47.16	54.00	-6.84	AVG
3	17235.000	36.46	23.43	59.89	68.20	-8.31	peak

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		
Frequency:	5785 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



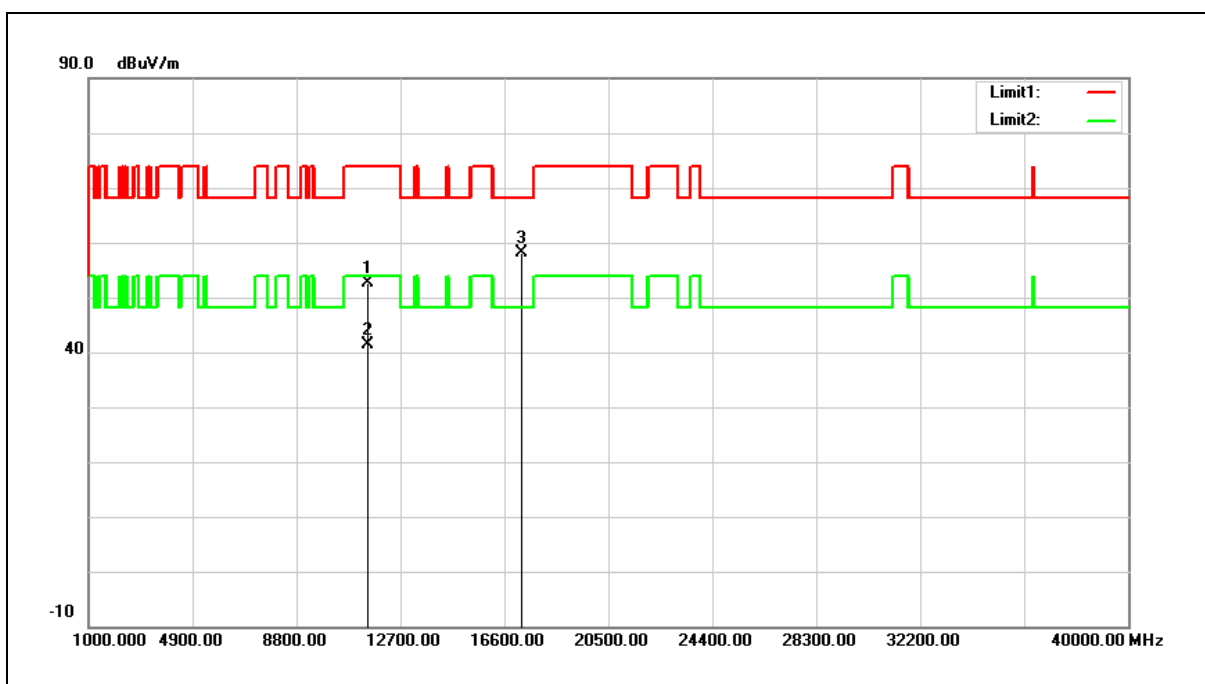
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.63	18.07	57.70	74.00	-16.30	peak
2	11570.000	27.68	18.07	45.75	54.00	-8.25	AVG
3	17355.000	36.73	24.04	60.77	68.20	-7.43	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5785 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



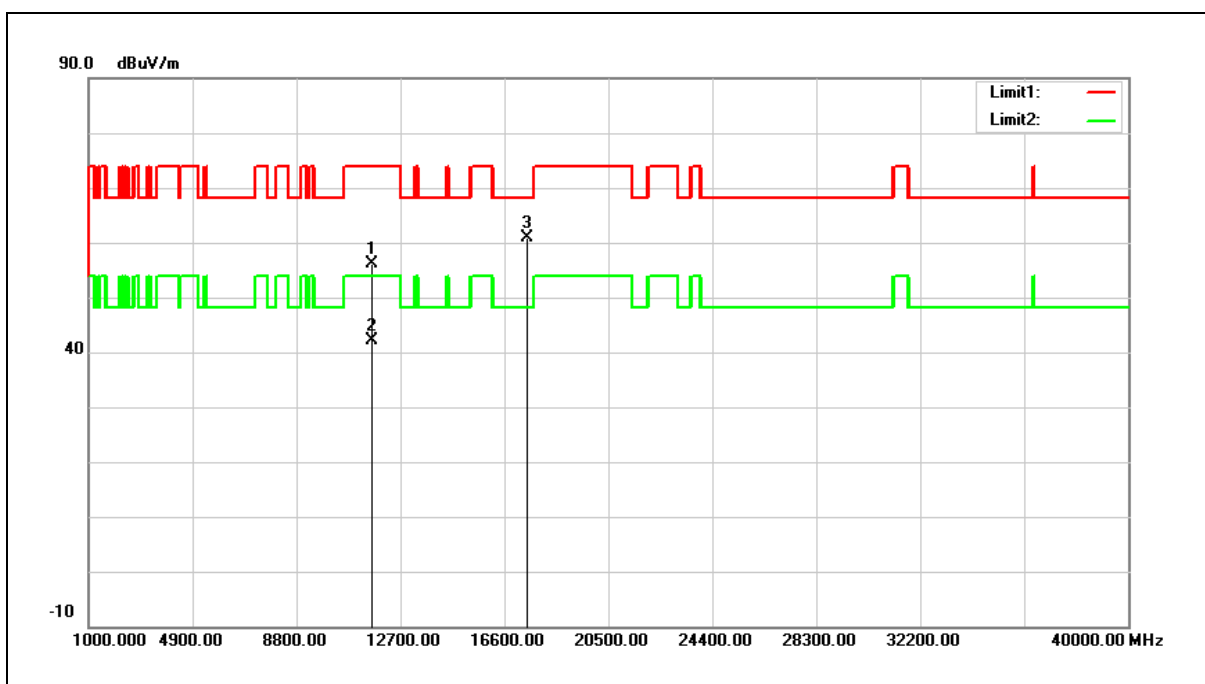
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	34.53	18.19	52.72	74.00	-21.28	peak
2	11490.000	23.09	18.19	41.28	54.00	-12.72	AVG
3	17235.000	34.74	23.43	58.17	68.20	-10.03	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5825 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



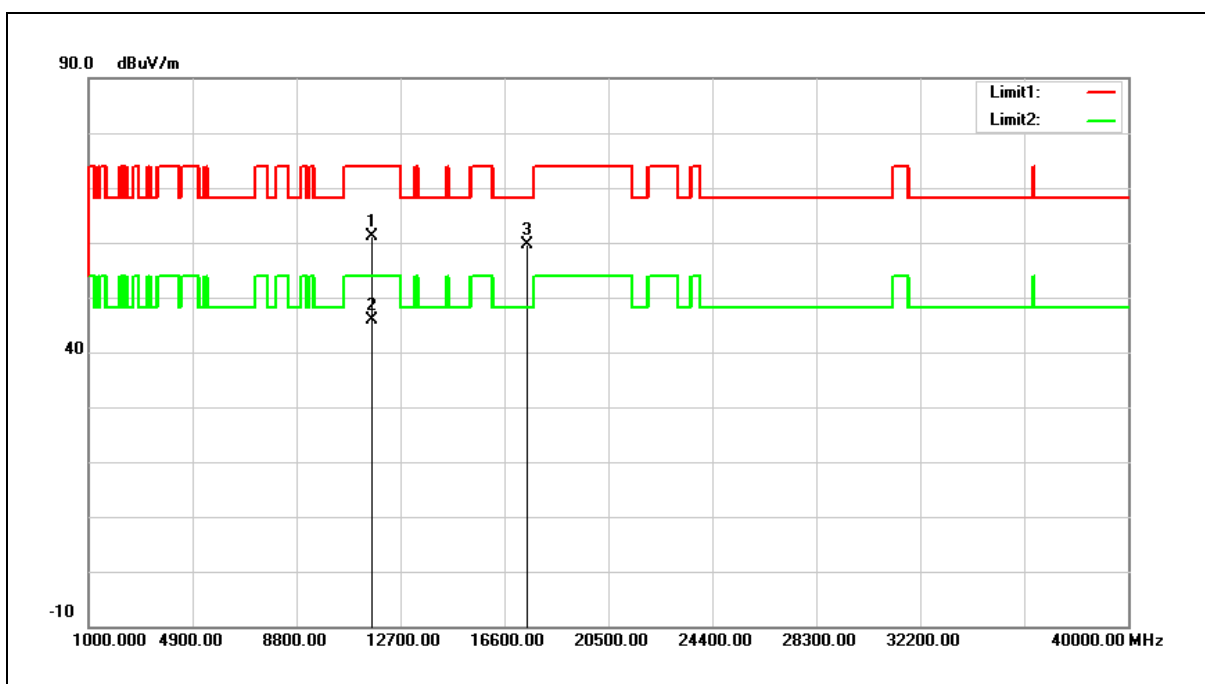
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	38.21	17.92	56.13	74.00	-17.87	peak
2	11650.000	24.20	17.92	42.12	54.00	-11.88	AVG
3	17474.000	36.31	24.63	60.94	68.20	-7.26	peak

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		
Frequency:	5825 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



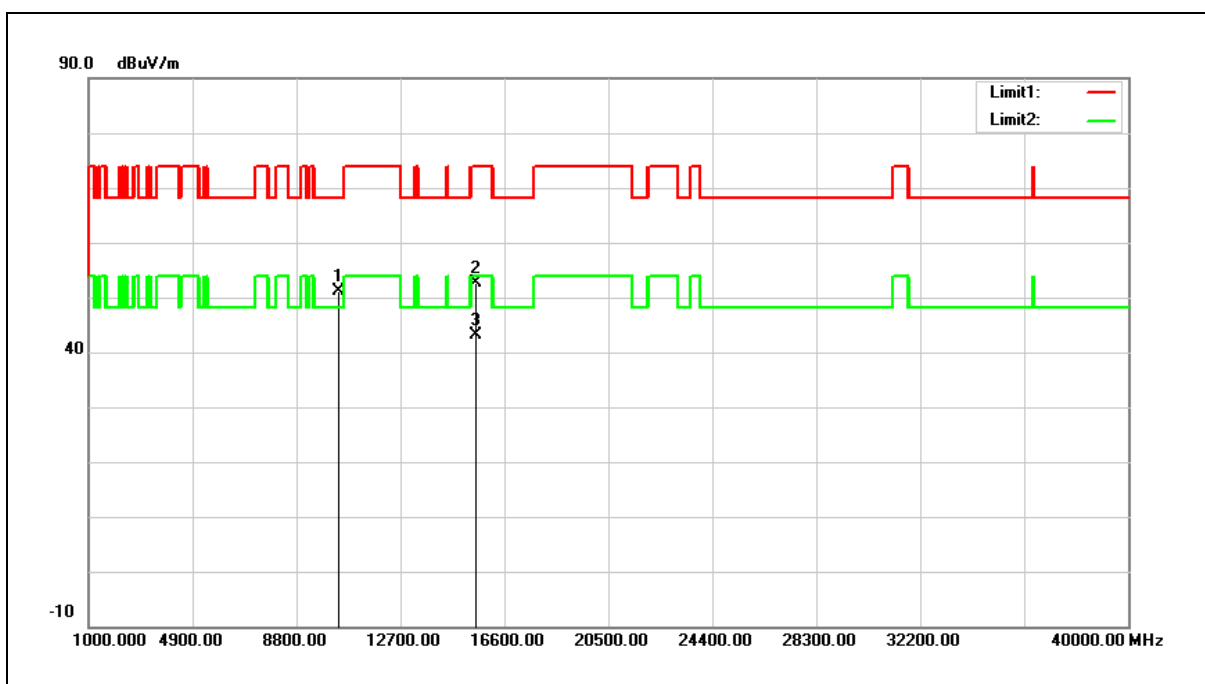
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	43.18	17.92	61.10	74.00	-12.90	peak
2	11650.000	28.02	17.92	45.94	54.00	-8.06	AVG
3	17475.000	35.00	24.64	59.64	68.20	-8.56	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5180 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



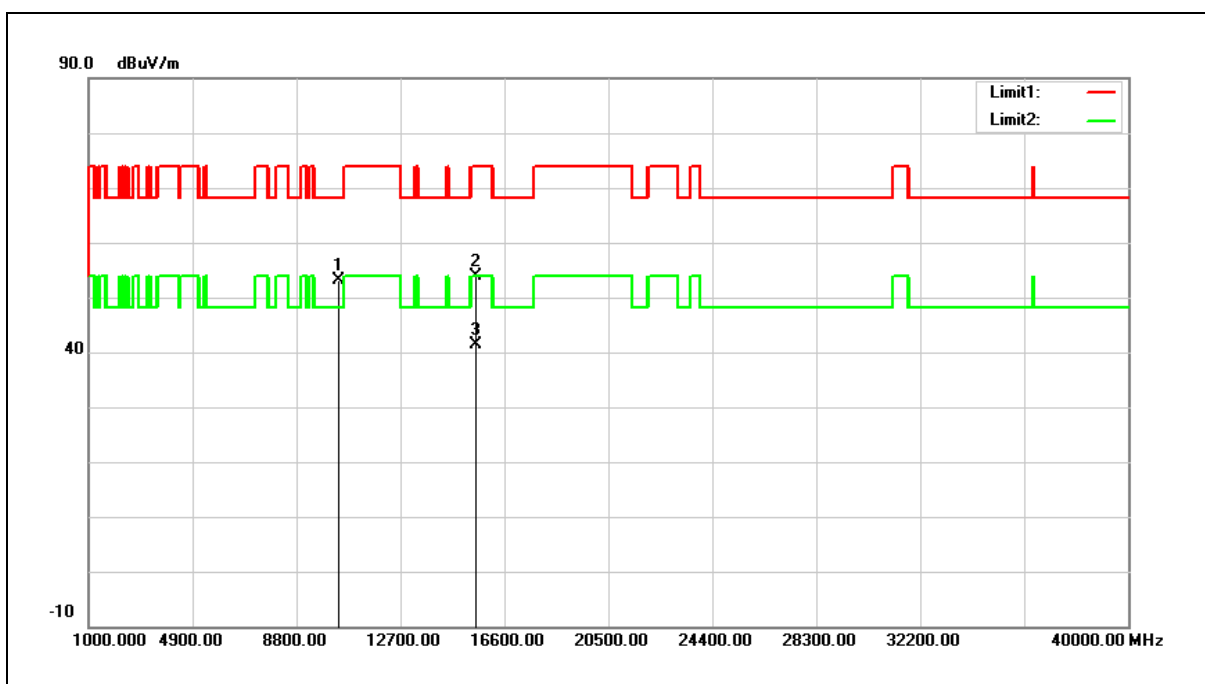
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	35.16	16.07	51.23	68.20	-16.97	peak
2	15540.000	34.70	18.03	52.73	74.00	-21.27	peak
3	15540.000	25.07	18.03	43.10	54.00	-10.90	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5180 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



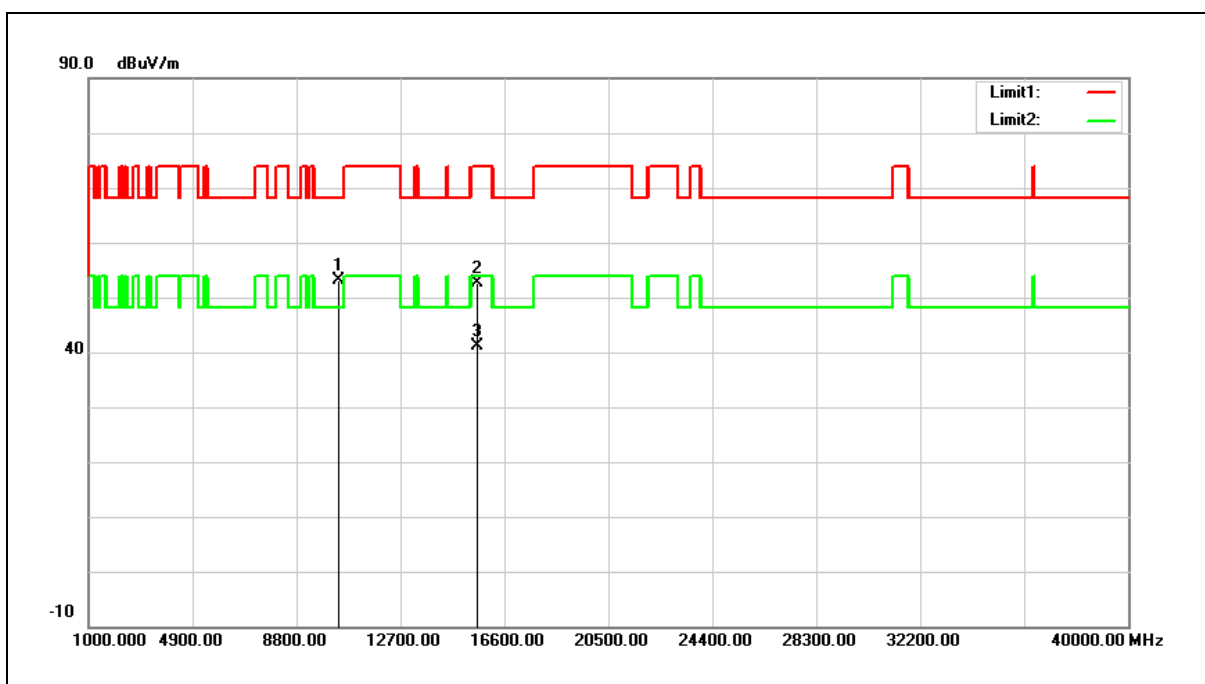
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	37.04	16.07	53.11	68.20	-15.09	peak
2	15540.000	35.85	18.03	53.88	74.00	-20.12	peak
3	15540.000	23.32	18.03	41.35	54.00	-12.65	AVG

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:	Harmonic		
Frequency:	5200 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



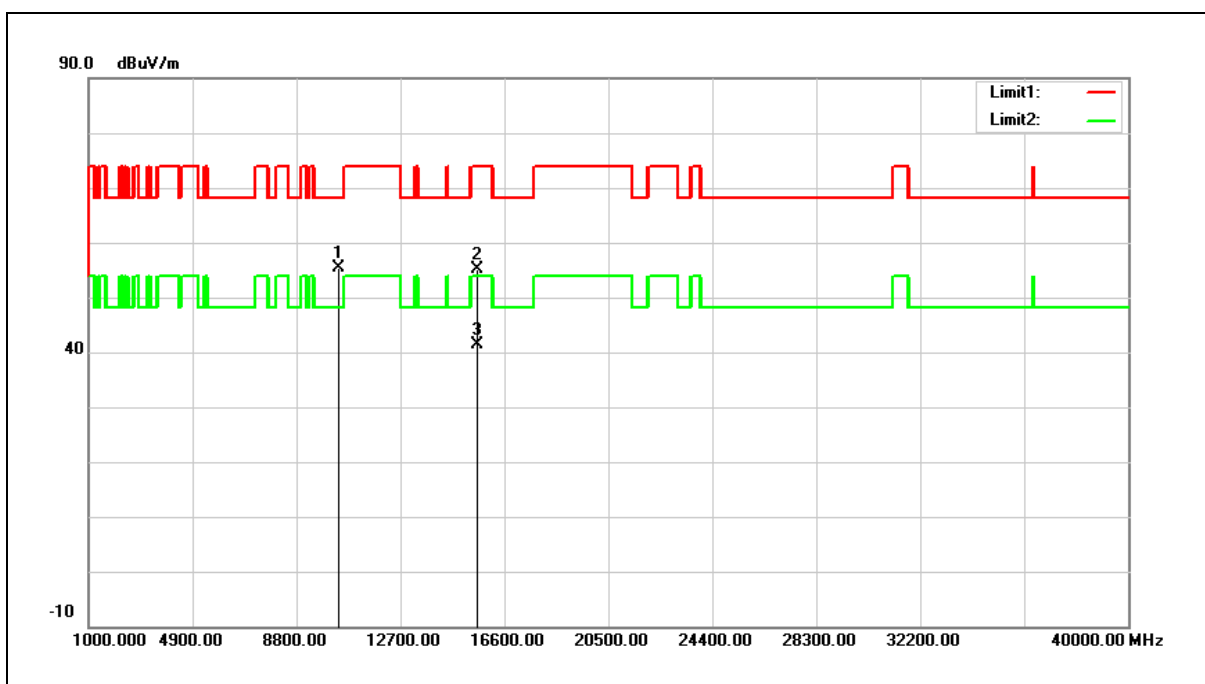
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	36.85	16.18	53.03	68.20	-15.17	peak
2	15600.000	34.82	17.76	52.58	74.00	-21.42	peak
3	15600.000	23.30	17.76	41.06	54.00	-12.94	AVG

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		
Frequency:	5200 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



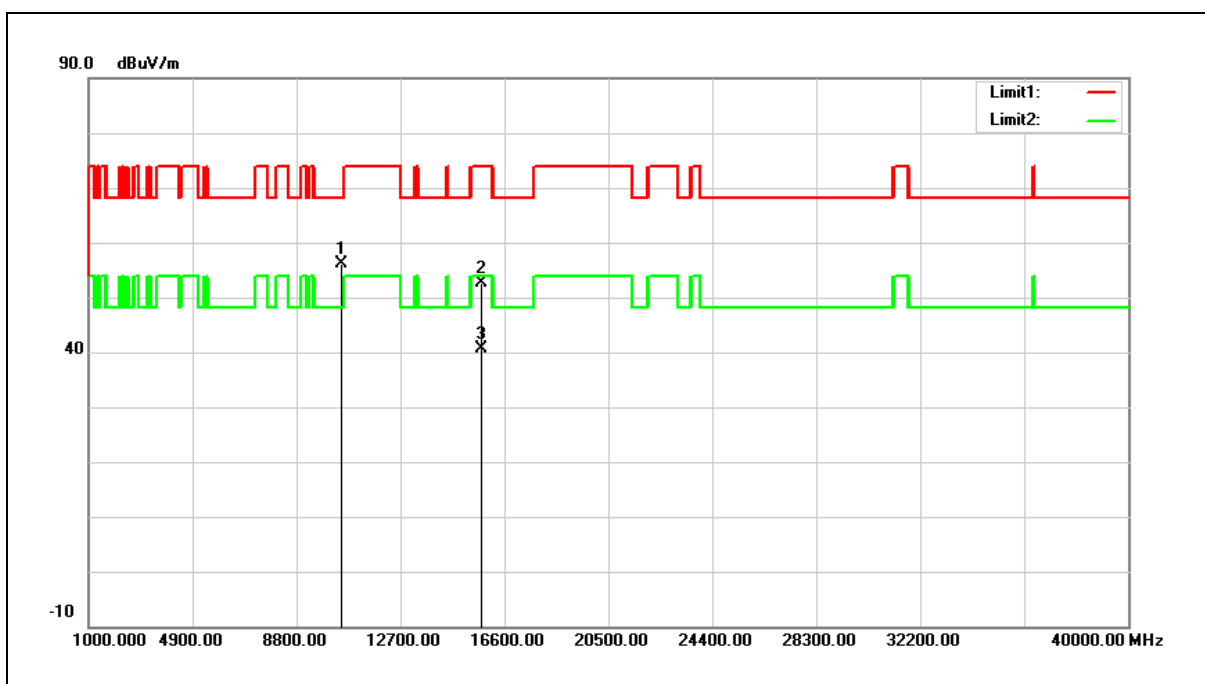
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	39.09	16.18	55.27	68.20	-12.93	peak
2	15600.000	37.37	17.76	55.13	74.00	-18.87	peak
3	15600.000	23.66	17.76	41.42	54.00	-12.58	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



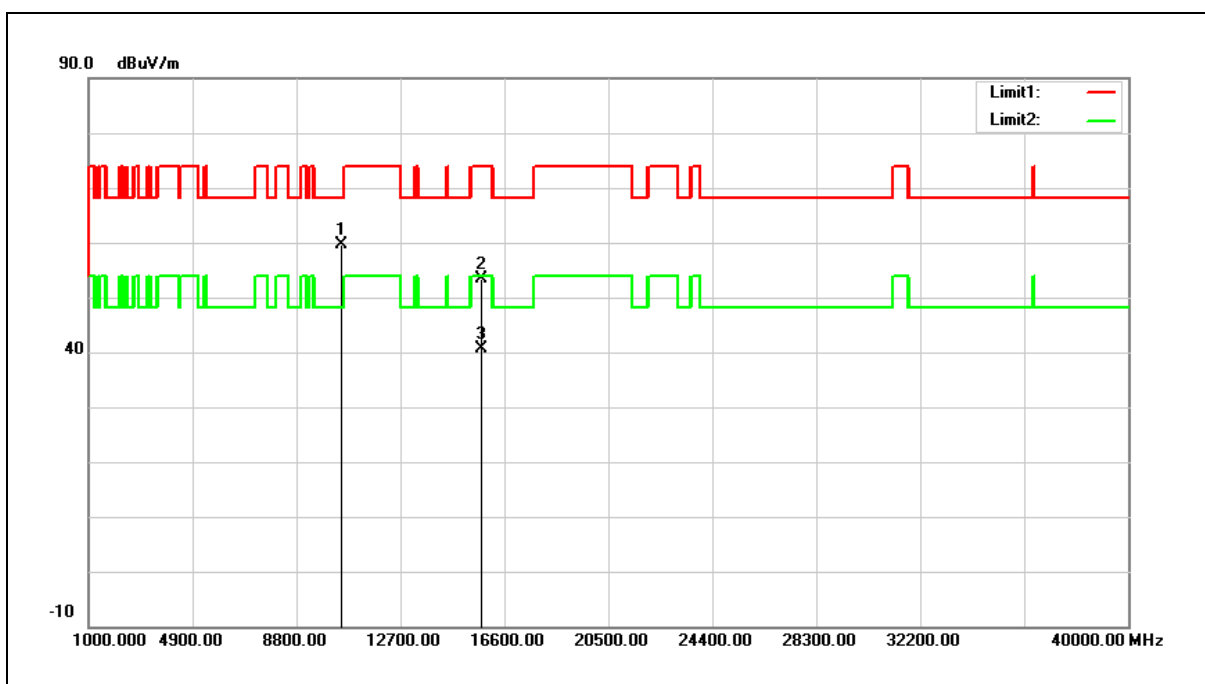
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	39.74	16.38	56.12	68.20	-12.08	peak
2	15720.000	35.36	17.22	52.58	74.00	-21.42	peak
3	15720.000	23.48	17.22	40.70	54.00	-13.30	AVG

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		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



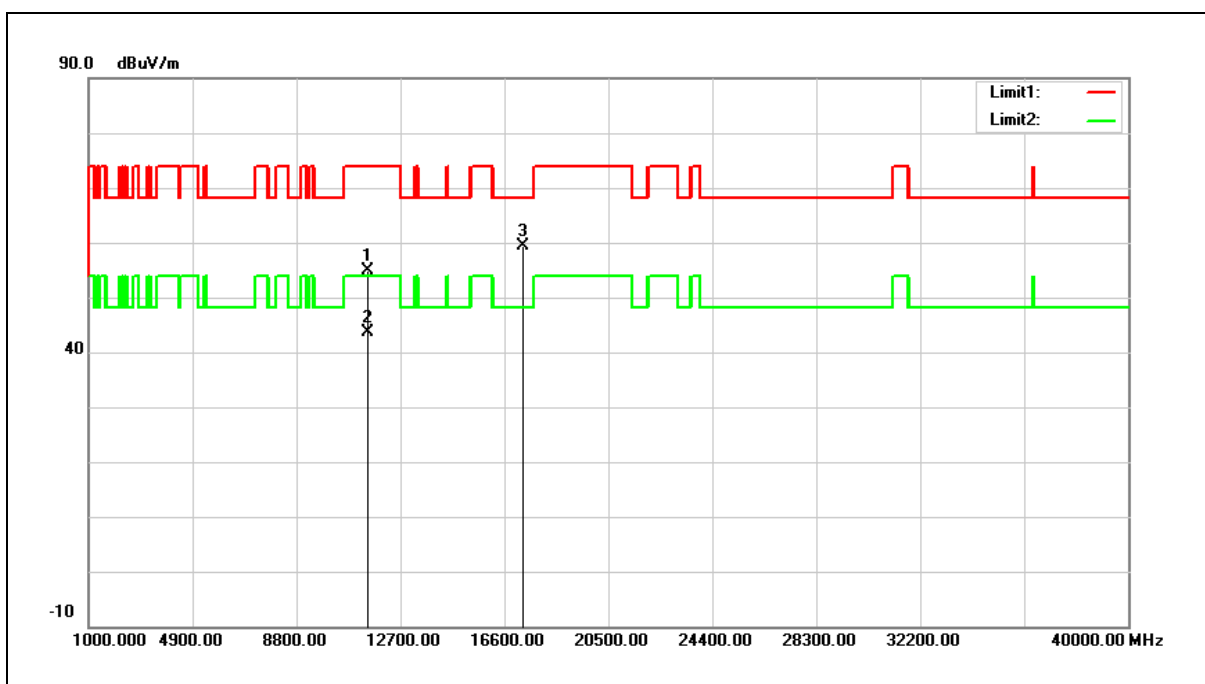
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	43.17	16.38	59.55	68.20	-8.65	peak
2	15720.000	36.27	17.22	53.49	74.00	-20.51	peak
3	15720.000	23.47	17.22	40.69	54.00	-13.31	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5745 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



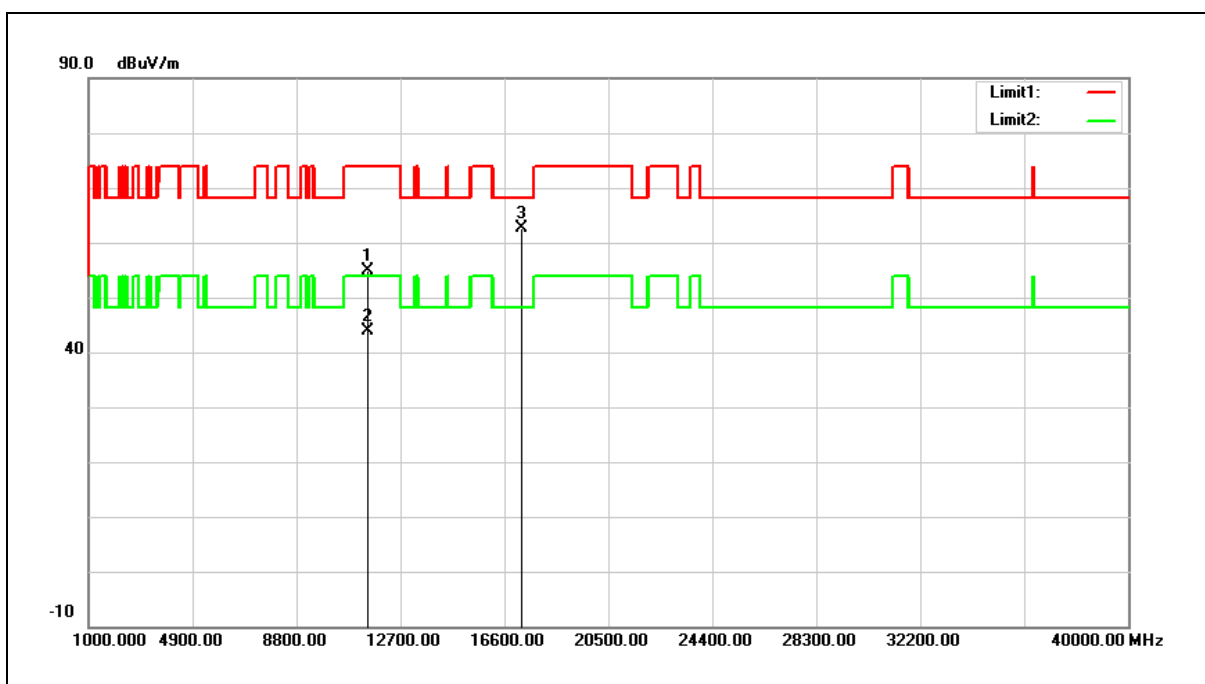
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	36.64	18.19	54.83	74.00	-19.17	peak
2	11490.000	25.42	18.19	43.61	54.00	-10.39	AVG
3	17325.000	35.60	23.89	59.49	68.20	-8.71	peak

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		
Frequency:	5745 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



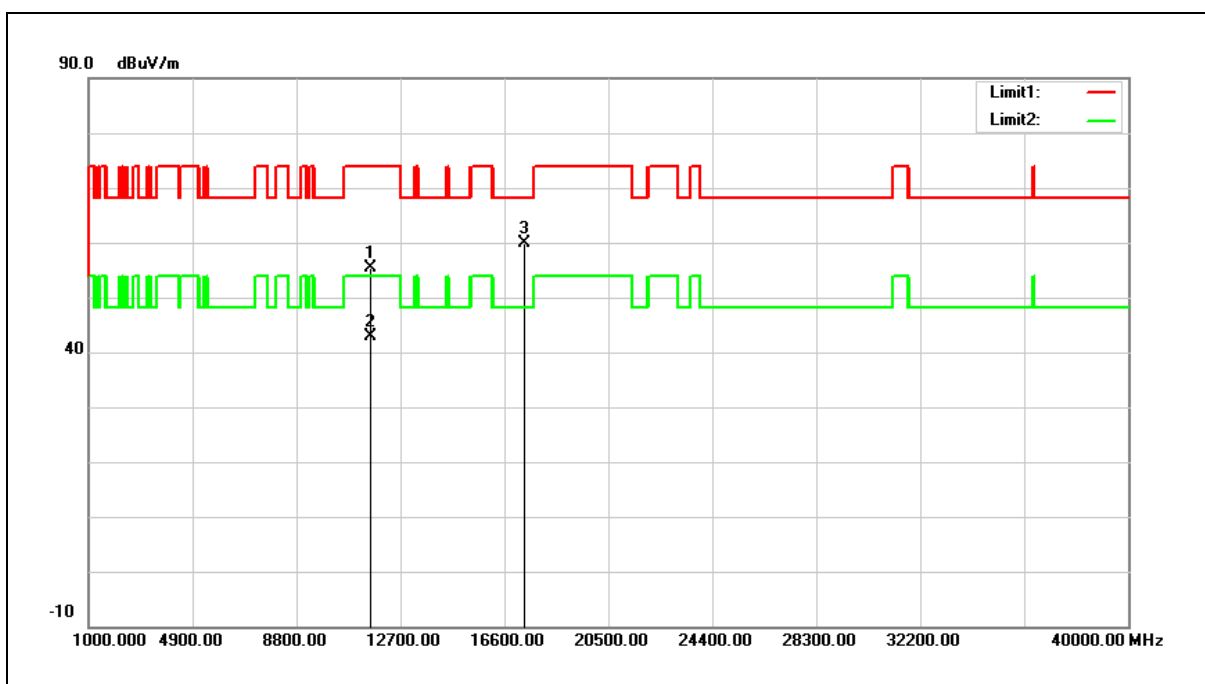
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	36.62	18.19	54.81	74.00	-19.19	peak
2	11490.000	25.65	18.19	43.84	54.00	-10.16	AVG
3	17235.000	39.16	23.43	62.59	68.20	-5.61	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5785 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



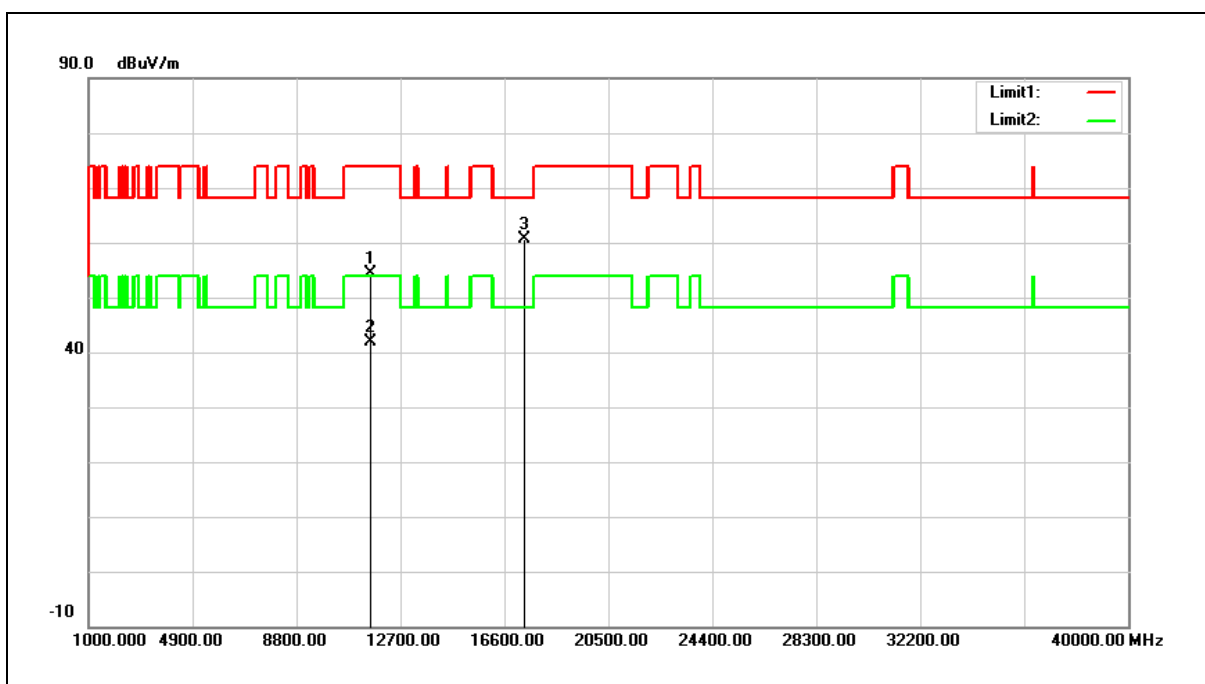
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	37.35	18.07	55.42	74.00	-18.58	peak
2	11570.000	24.78	18.07	42.85	54.00	-11.15	AVG
3	17355.000	35.92	24.04	59.96	68.20	-8.24	peak

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		
Frequency:	5785 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



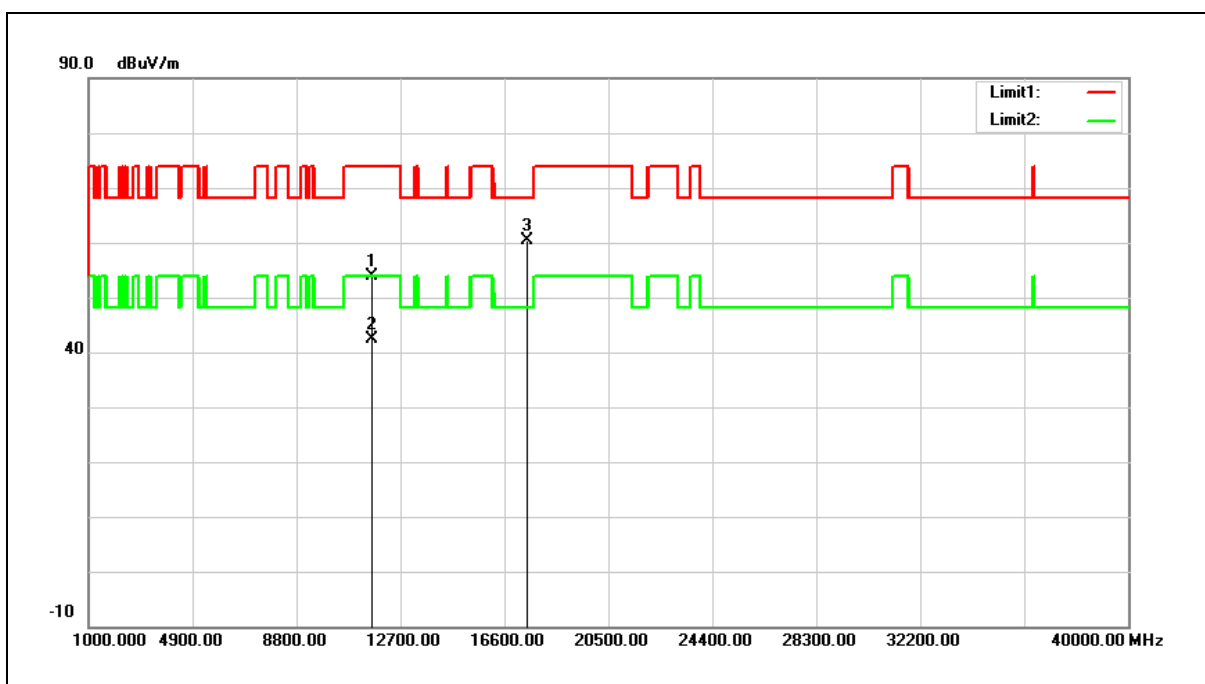
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	36.20	18.07	54.27	74.00	-19.73	peak
2	11570.000	23.77	18.07	41.84	54.00	-12.16	AVG
3	17355.000	36.49	24.04	60.53	68.20	-7.67	peak

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:	Harmonic		
Frequency:	5825 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



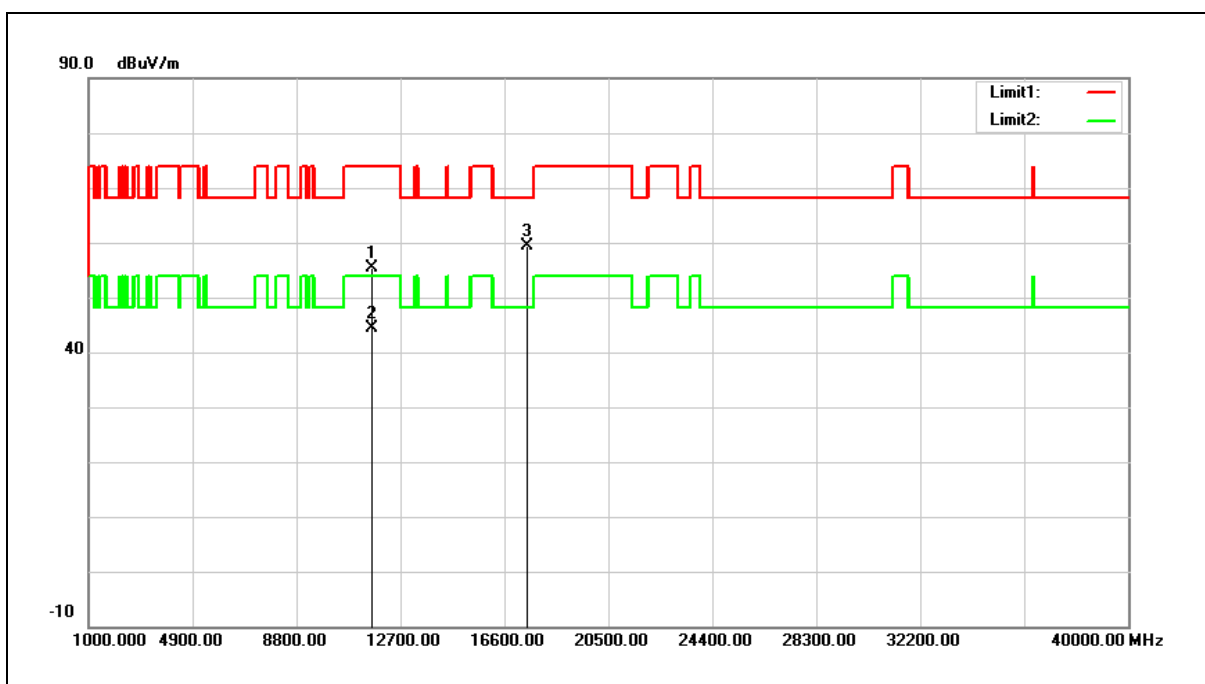
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	36.05	17.92	53.97	74.00	-20.03	peak
2	11650.000	24.43	17.92	42.35	54.00	-11.65	AVG
3	17475.000	35.69	24.64	60.33	68.20	-7.87	peak

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		
Frequency:	5825 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



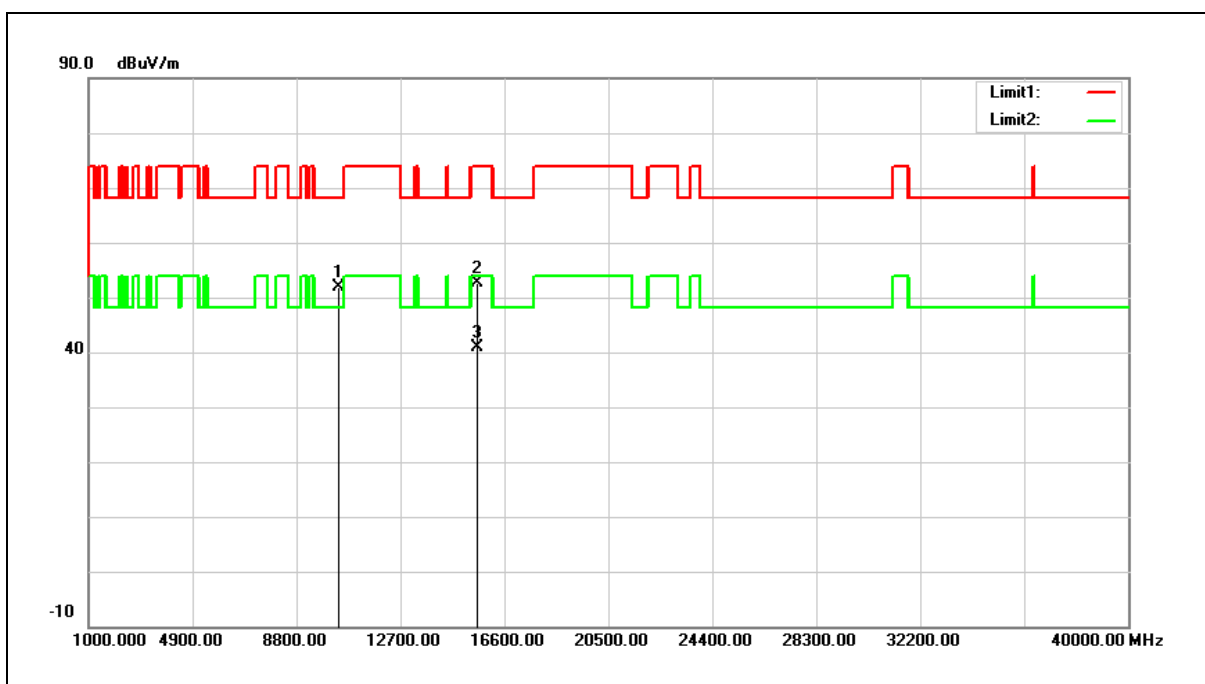
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	37.58	17.92	55.50	74.00	-18.50	peak
2	11650.000	26.51	17.92	44.43	54.00	-9.57	AVG
3	17475.000	34.66	24.64	59.30	68.20	-8.90	peak

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		
Frequency:	5190 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



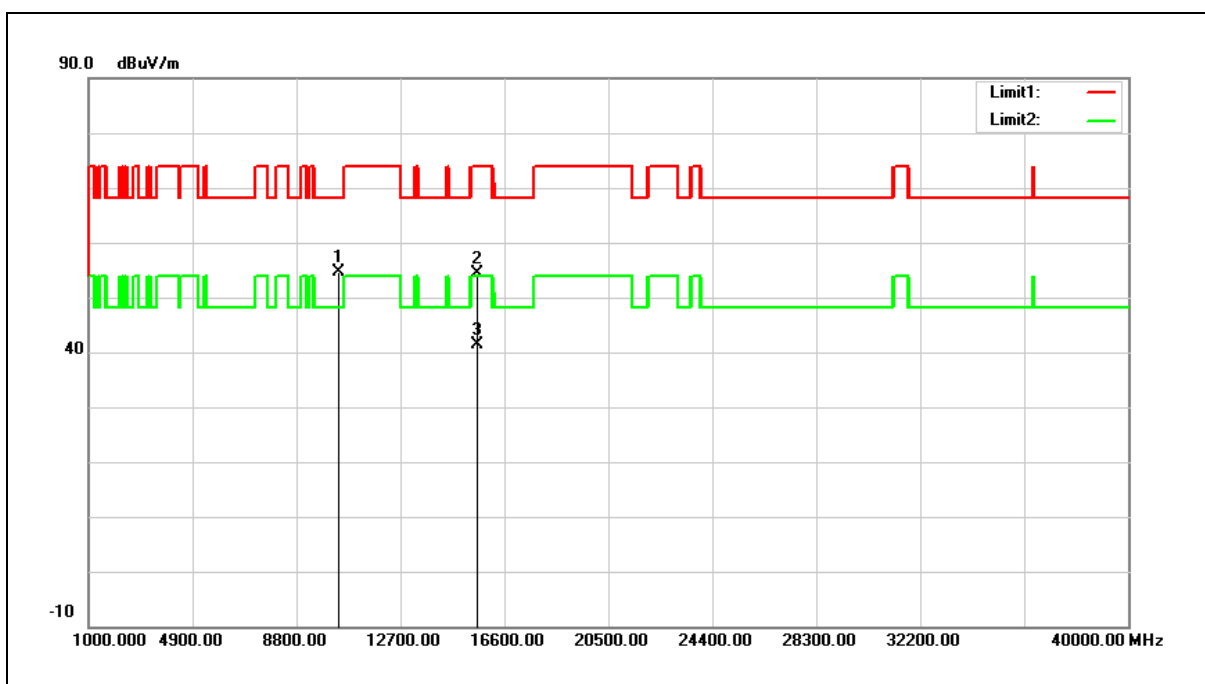
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	35.84	16.13	51.97	68.20	-16.23	peak
2	15570.000	34.80	17.90	52.70	74.00	-21.30	peak
3	15570.000	23.01	17.90	40.91	54.00	-13.09	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5190 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



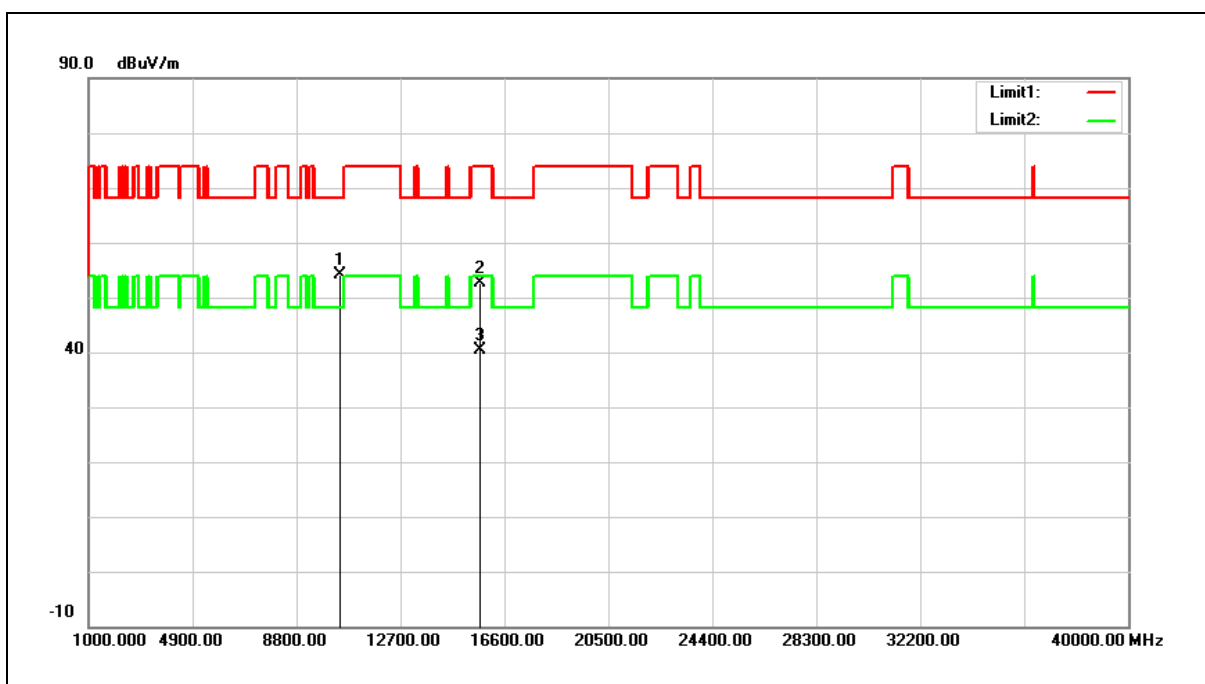
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	38.39	16.13	54.52	68.20	-13.68	peak
2	15570.000	36.48	17.90	54.38	74.00	-19.62	peak
3	15570.000	23.38	17.90	41.28	54.00	-12.72	AVG

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		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



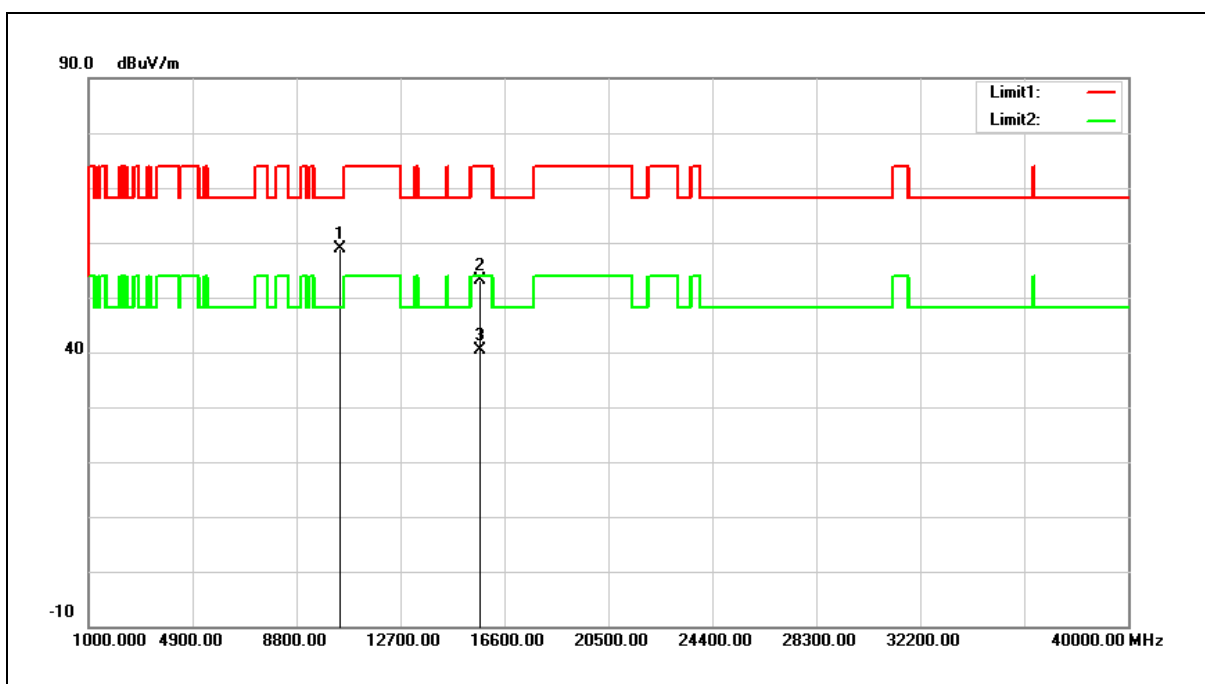
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	37.74	16.33	54.07	68.20	-14.13	peak
2	15690.000	35.22	17.35	52.57	74.00	-21.43	peak
3	15690.000	22.98	17.35	40.33	54.00	-13.67	AVG

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		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



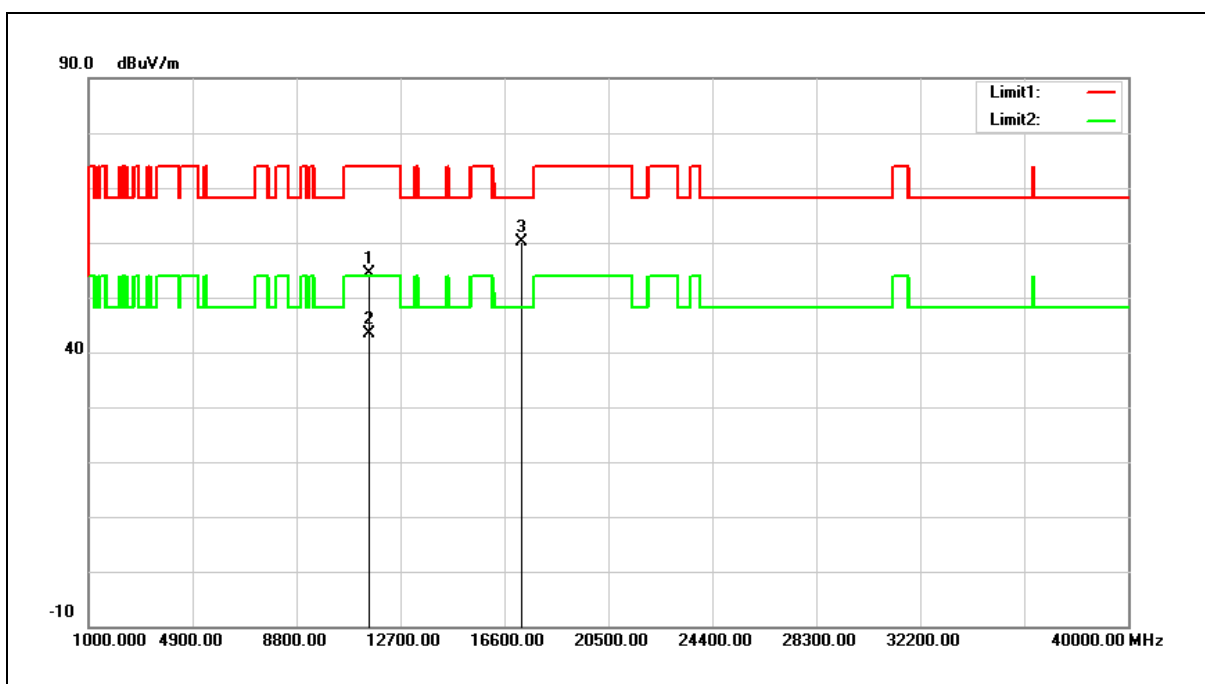
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	42.58	16.33	58.91	68.20	-9.29	peak
2	15690.000	35.66	17.35	53.01	74.00	-20.99	peak
3	15690.000	23.04	17.35	40.39	54.00	-13.61	AVG

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		
Frequency:	5755 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



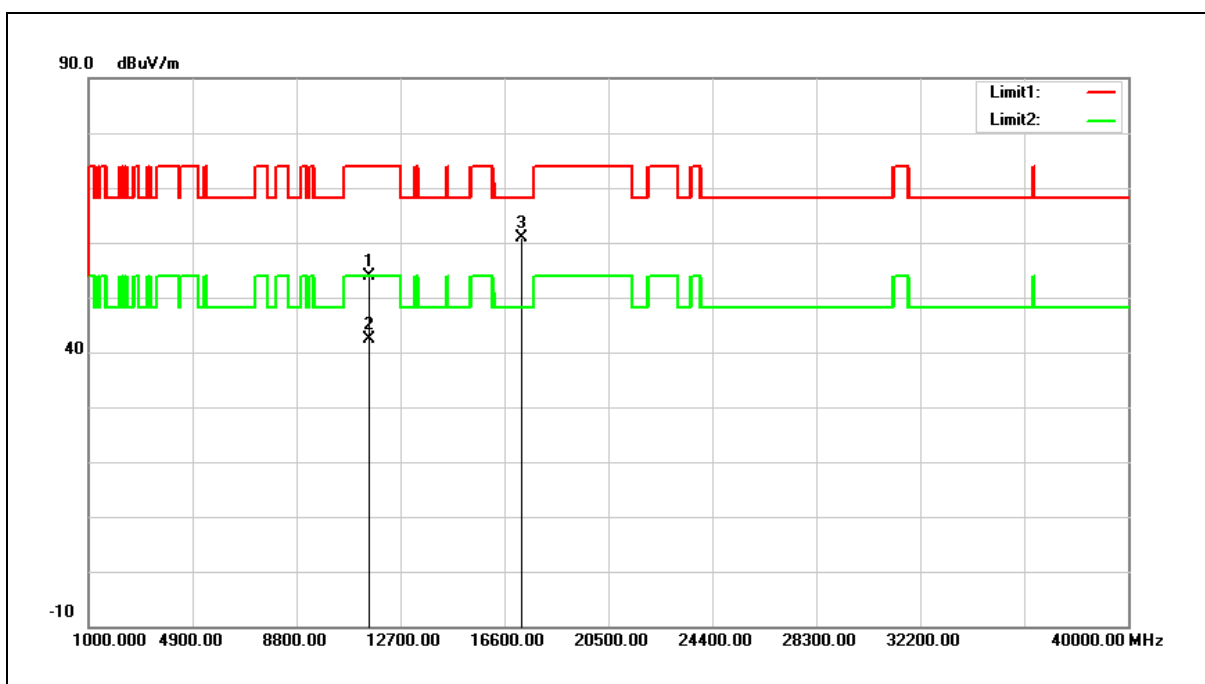
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	36.26	18.17	54.43	74.00	-19.57	peak
2	11510.000	25.22	18.17	43.39	54.00	-10.61	AVG
3	17265.000	36.46	23.58	60.04	68.20	-8.16	peak

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:	Harmonic		
Frequency:	5755 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



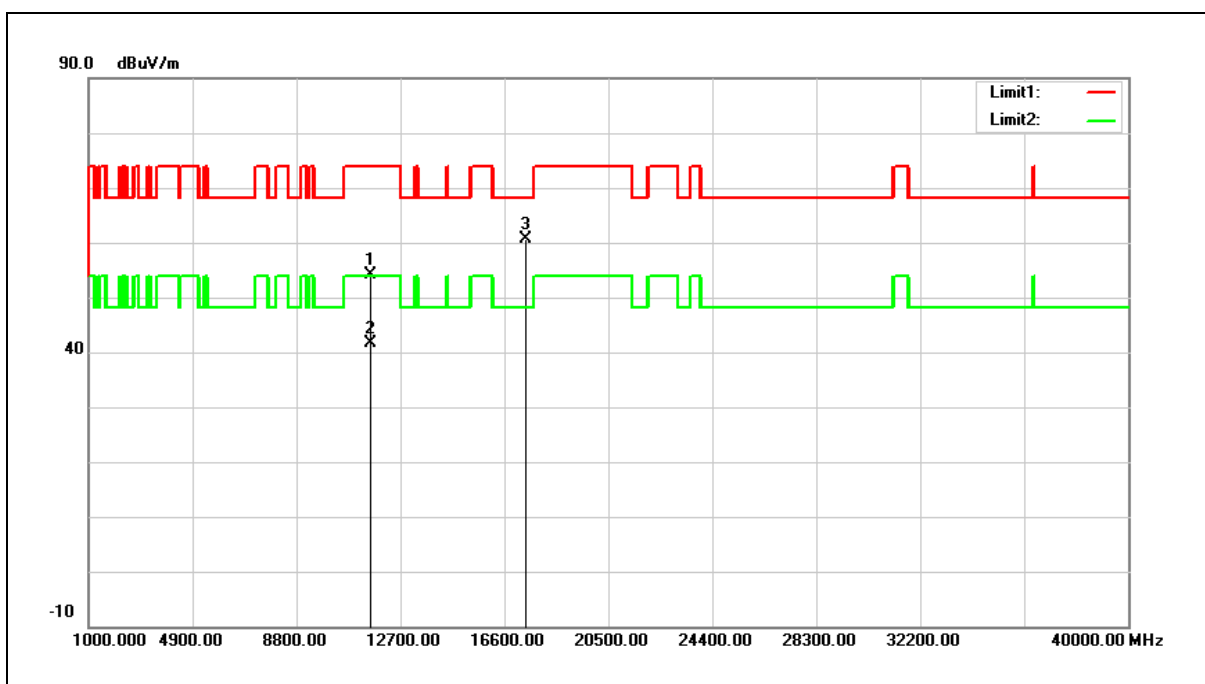
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	35.67	18.17	53.84	74.00	-20.16	peak
2	11510.000	24.10	18.17	42.27	54.00	-11.73	AVG
3	17265.000	37.37	23.58	60.95	68.20	-7.25	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5795 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



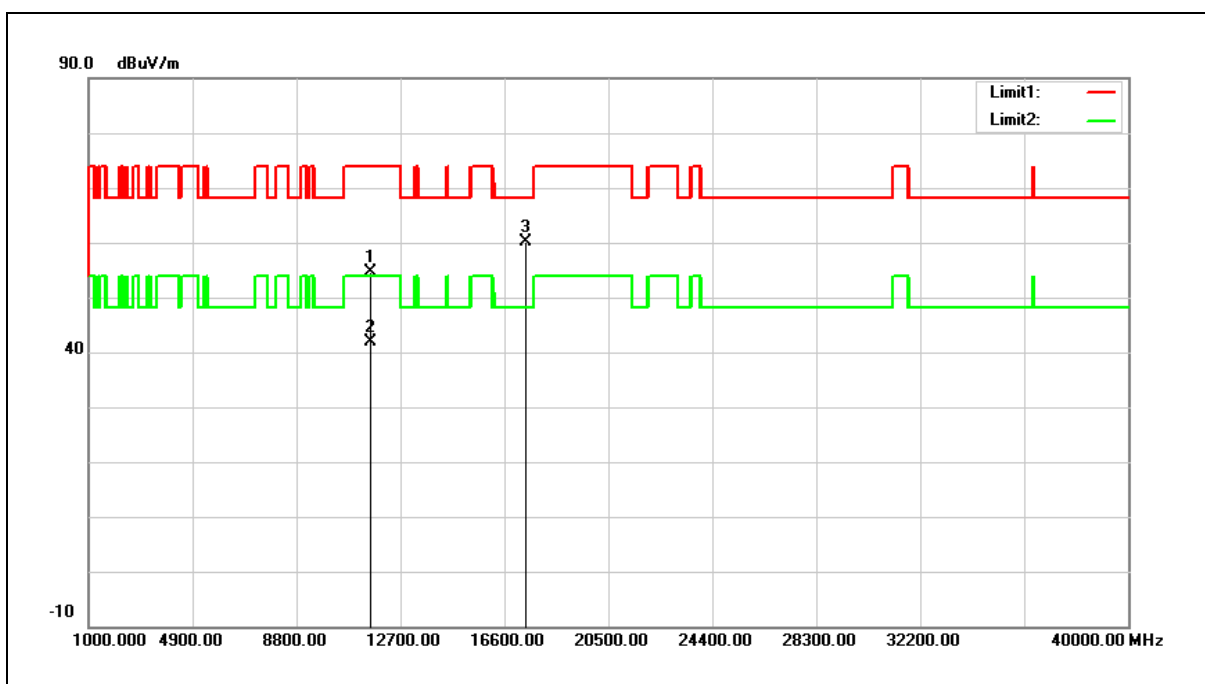
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	36.11	18.03	54.14	74.00	-19.86	peak
2	11590.000	23.69	18.03	41.72	54.00	-12.28	AVG
3	17385.000	36.46	24.18	60.64	68.20	-7.56	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5795 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



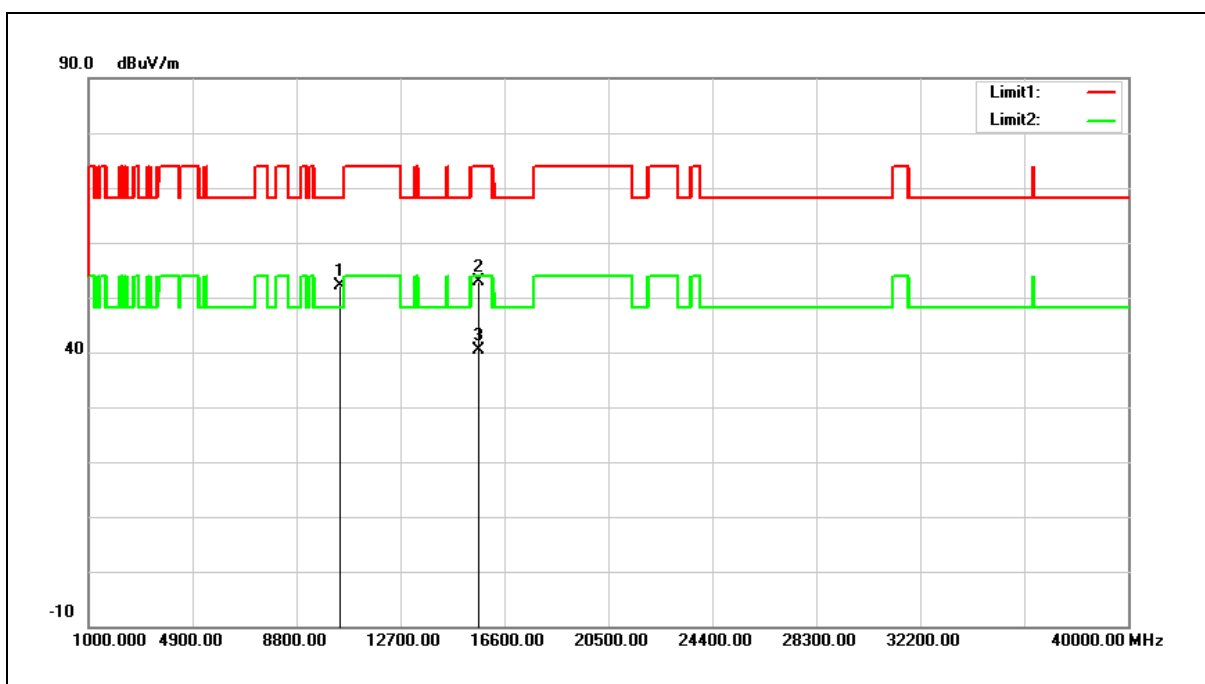
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	36.48	18.03	54.51	74.00	-19.49	peak
2	11590.000	23.96	18.03	41.99	54.00	-12.01	AVG
3	17385.000	36.07	24.18	60.25	68.20	-7.95	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



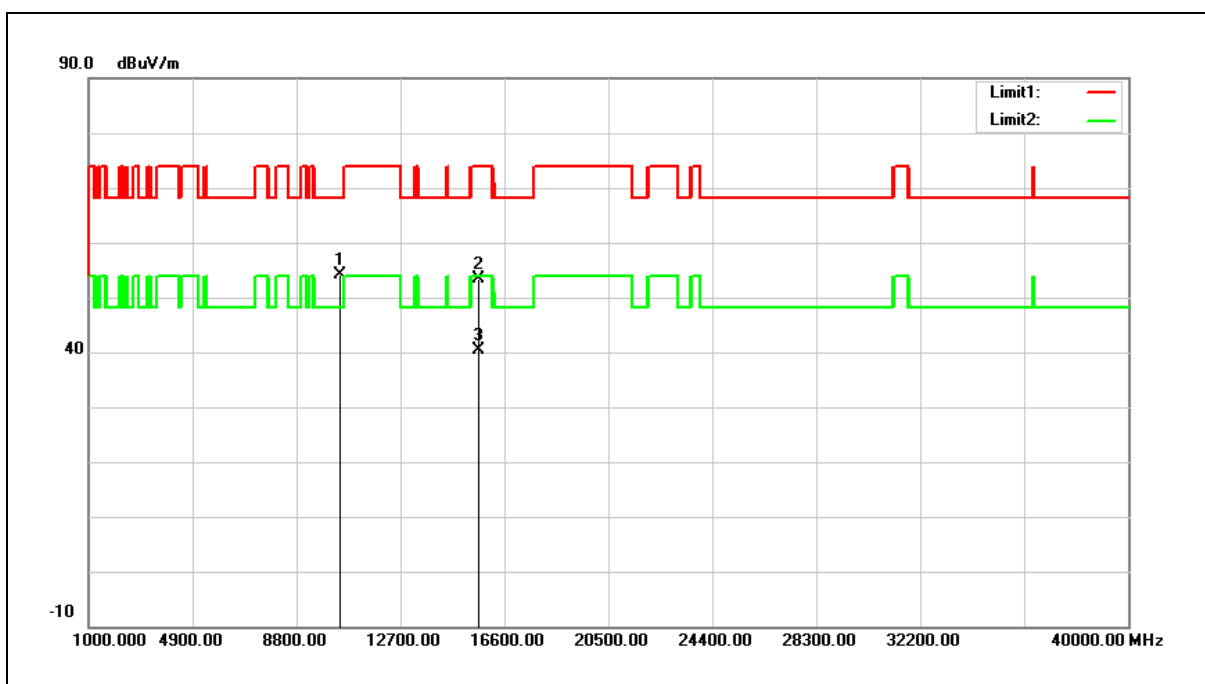
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	35.87	16.22	52.09	68.20	-16.11	peak
2	15630.000	35.19	17.62	52.81	74.00	-21.19	peak
3	15630.000	22.75	17.62	40.37	54.00	-13.63	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



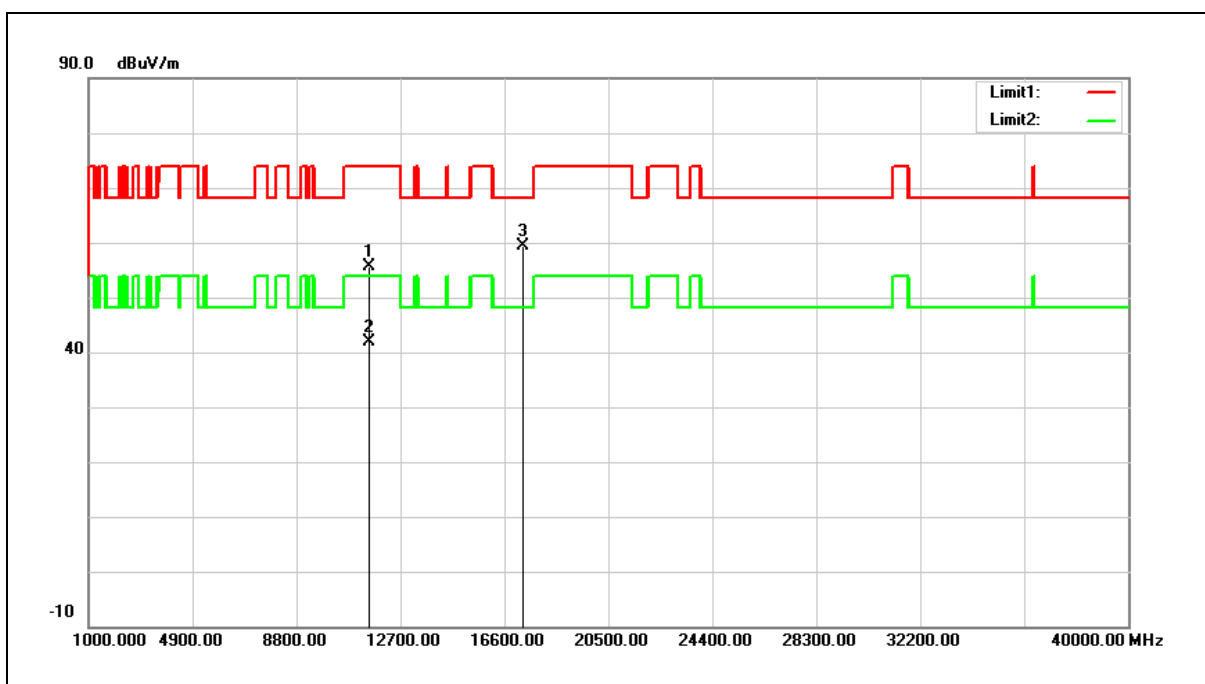
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	37.88	16.22	54.10	68.20	-14.10	peak
2	15630.000	35.68	17.62	53.30	74.00	-20.70	peak
3	15630.000	22.78	17.62	40.40	54.00	-13.60	AVG

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		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



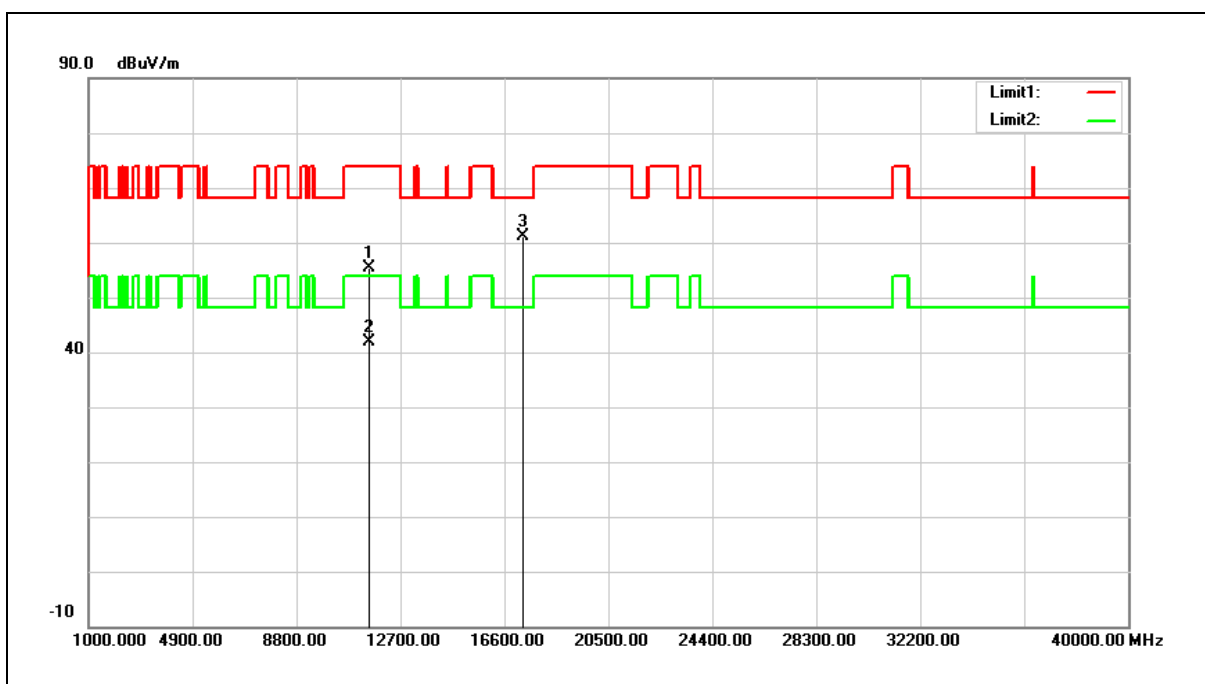
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	37.49	18.10	55.59	74.00	-18.41	peak
2	11550.000	23.73	18.10	41.83	54.00	-12.17	AVG
3	17325.000	35.50	23.89	59.39	68.20	-8.81	peak

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:	Harmonic		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	37.30	18.10	55.40	74.00	-18.60	peak
2	11550.000	23.71	18.10	41.81	54.00	-12.19	AVG
3	17325.000	37.28	23.89	61.17	68.20	-7.03	peak

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

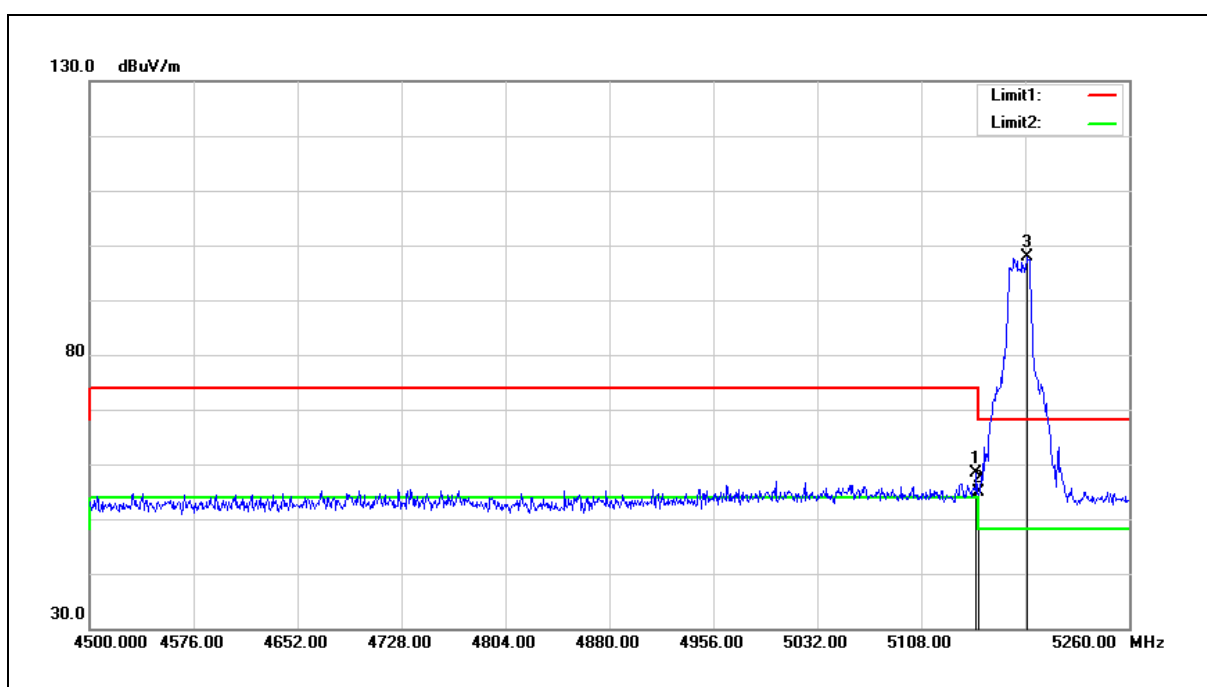
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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

Band Edge

Peak

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5180 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



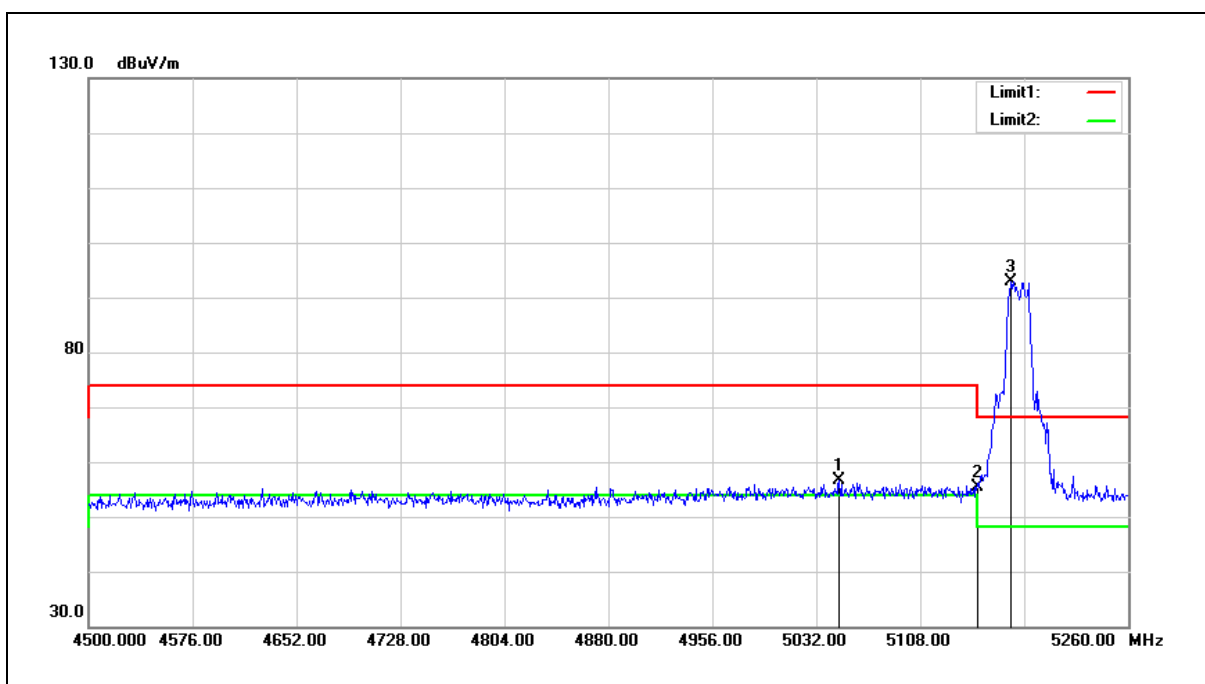
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.280	53.61	4.80	58.41	74.00	-15.59	peak
2	5150.000	50.16	4.80	54.96	74.00	-19.04	peak
3	5185.520	93.04	4.86	97.90	68.20	29.70	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5180 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



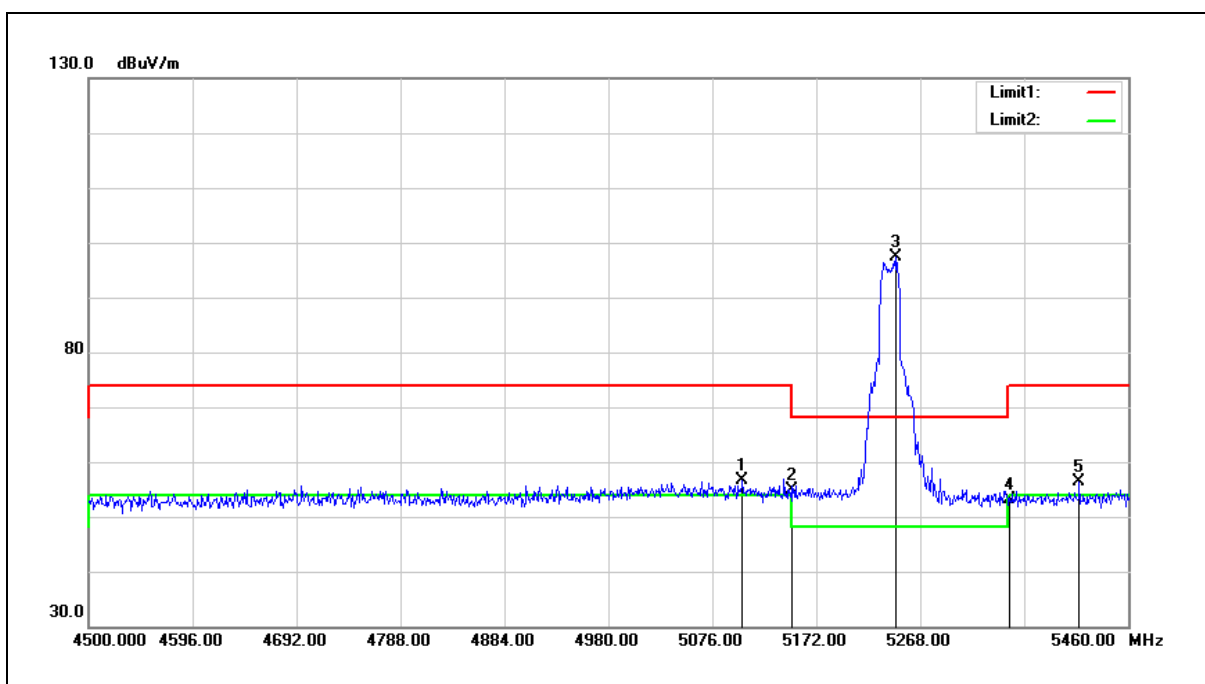
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5048.720	51.89	4.67	56.56	74.00	-17.44	peak
2	5150.000	50.66	4.80	55.46	74.00	-18.54	peak
3	5174.120	88.15	4.84	92.99	68.20	24.79	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



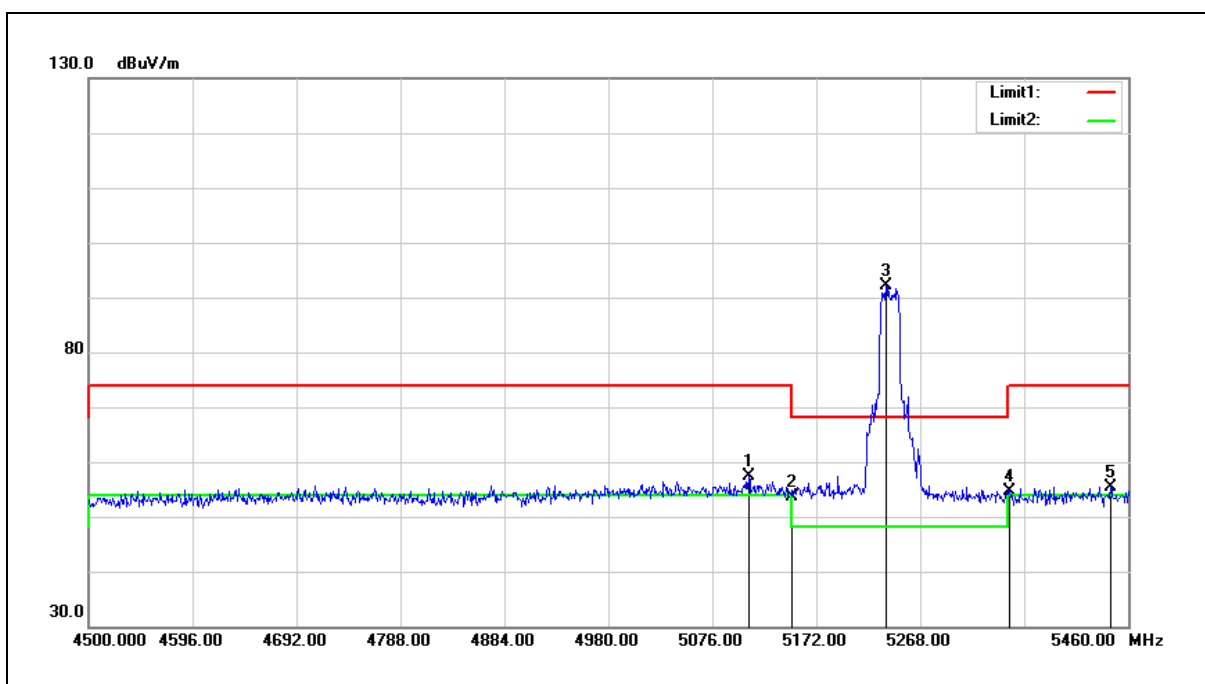
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5103.840	51.77	4.74	56.51	74.00	-17.49	peak
2	5150.000	50.09	4.80	54.89	74.00	-19.11	peak
3	5245.920	92.45	4.94	97.39	68.20	29.19	peak
4	5350.000	48.17	5.08	53.25	74.00	-20.75	peak
5	5414.880	51.11	5.16	56.27	74.00	-17.73	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



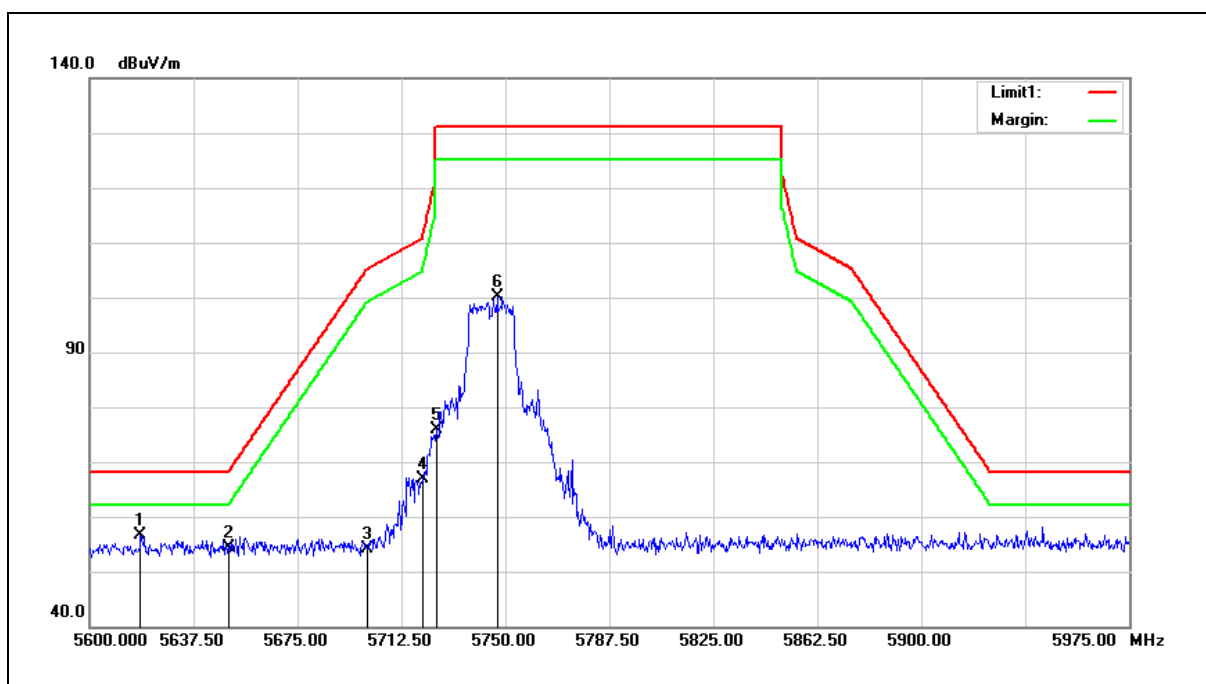
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5109.600	52.60	4.75	57.35	74.00	-16.65	peak
2	5150.000	48.94	4.80	53.74	74.00	-20.26	peak
3	5236.320	87.20	4.93	92.13	68.20	23.93	peak
4	5350.000	49.54	5.08	54.62	74.00	-19.38	peak
5	5443.680	50.30	5.20	55.50	74.00	-18.50	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		
Frequency:	5745 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



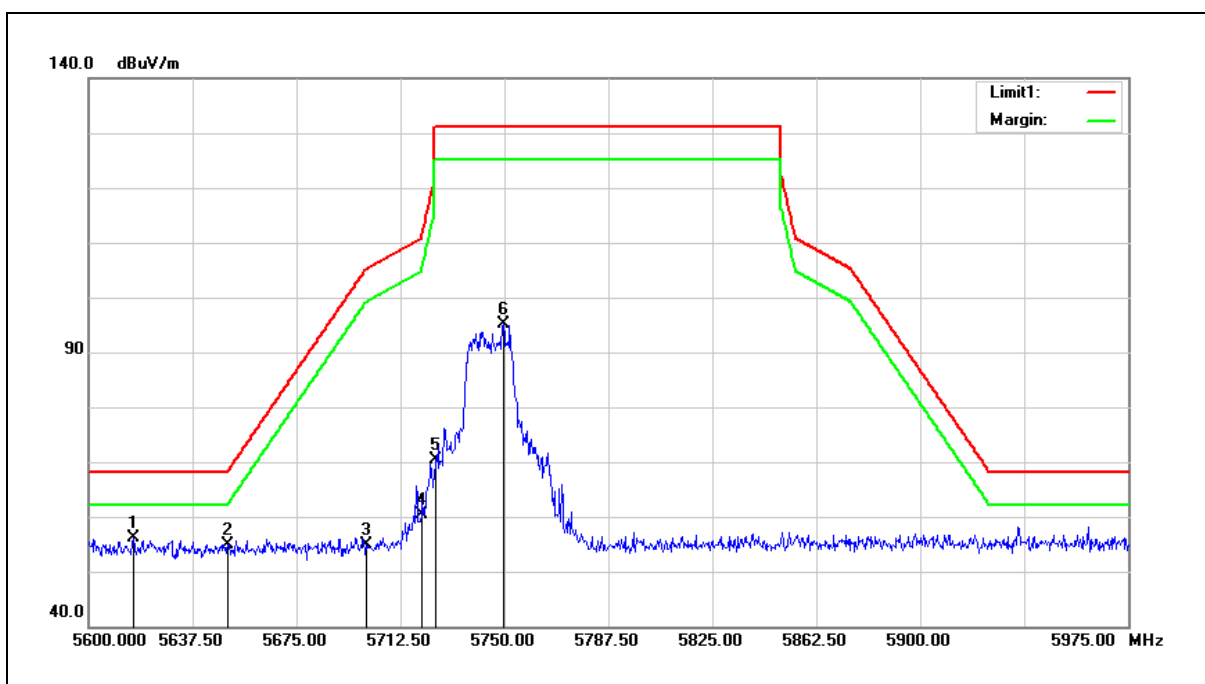
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5618.375	51.19	5.52	56.71	68.20	-11.49	peak
2	5650.000	48.76	5.58	54.34	68.20	-13.86	peak
3	5700.000	48.52	5.68	54.20	105.20	-51.00	peak
4	5720.000	61.04	5.72	66.76	110.80	-44.04	peak
5	5725.000	70.09	5.73	75.82	122.20	-46.38	peak
6	5747.000	94.46	5.78	100.24	131.20	-30.96	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5745 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



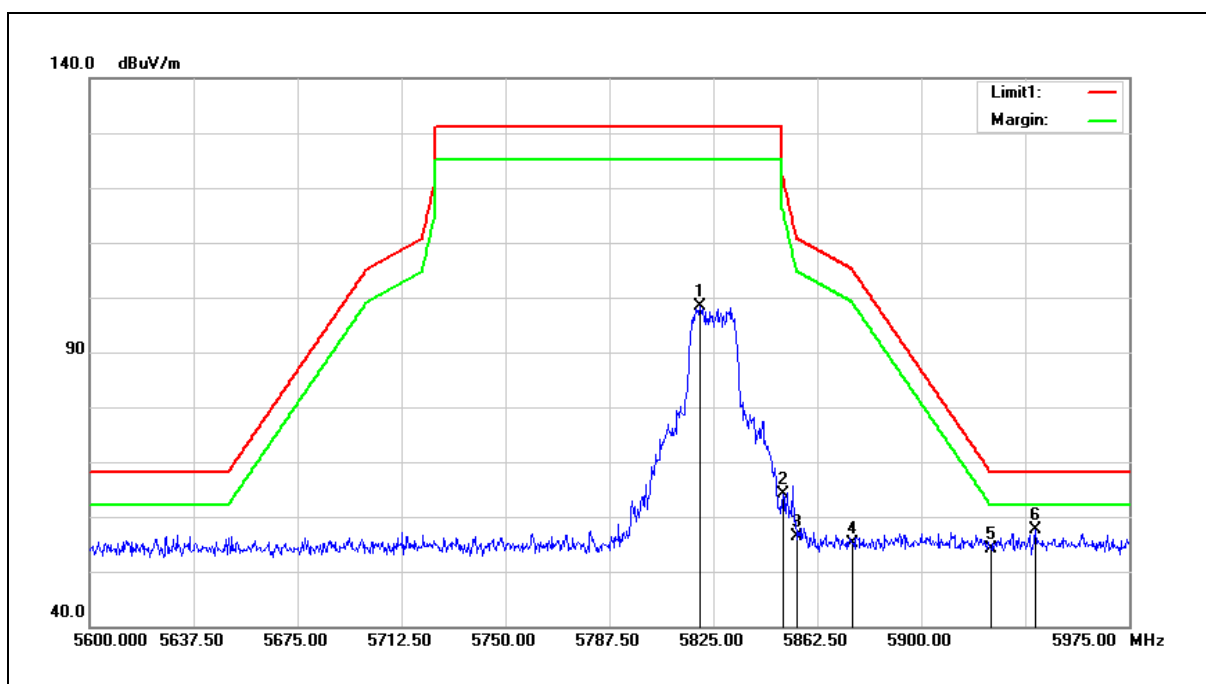
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.125	50.72	5.52	56.24	68.20	-11.96	peak
2	5650.000	49.24	5.58	54.82	68.20	-13.38	peak
3	5700.000	49.22	5.68	54.90	105.20	-50.30	peak
4	5720.000	54.75	5.72	60.47	110.80	-50.33	peak
5	5725.000	64.65	5.73	70.38	122.20	-51.82	peak
6	5749.625	89.27	5.78	95.05	131.20	-36.15	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:	Band edge		
Frequency:	5825 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



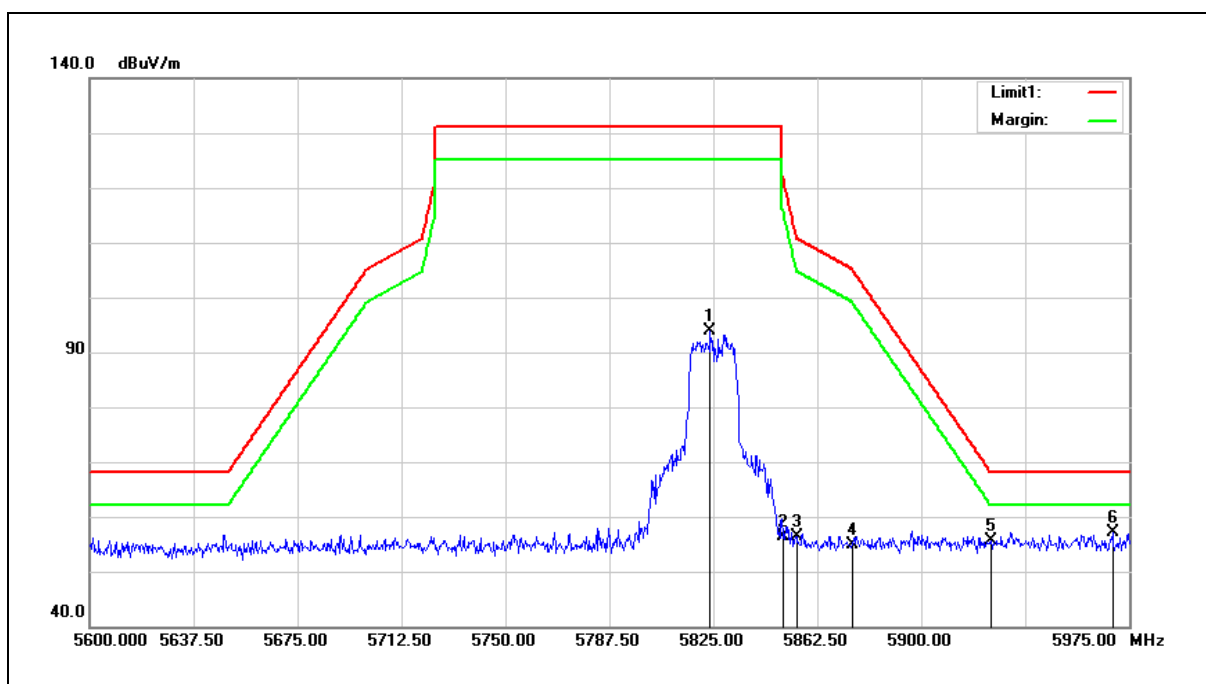
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5820.125	92.58	5.91	98.49	131.20	-32.71	peak
2	5850.000	58.05	5.99	64.04	122.20	-58.16	peak
3	5855.000	50.39	6.00	56.39	110.80	-54.41	peak
4	5875.000	49.05	6.04	55.09	105.20	-50.11	peak
5	5925.000	47.95	6.13	54.08	68.20	-14.12	peak
6	5941.250	51.41	6.17	57.58	68.20	-10.62	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5825 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



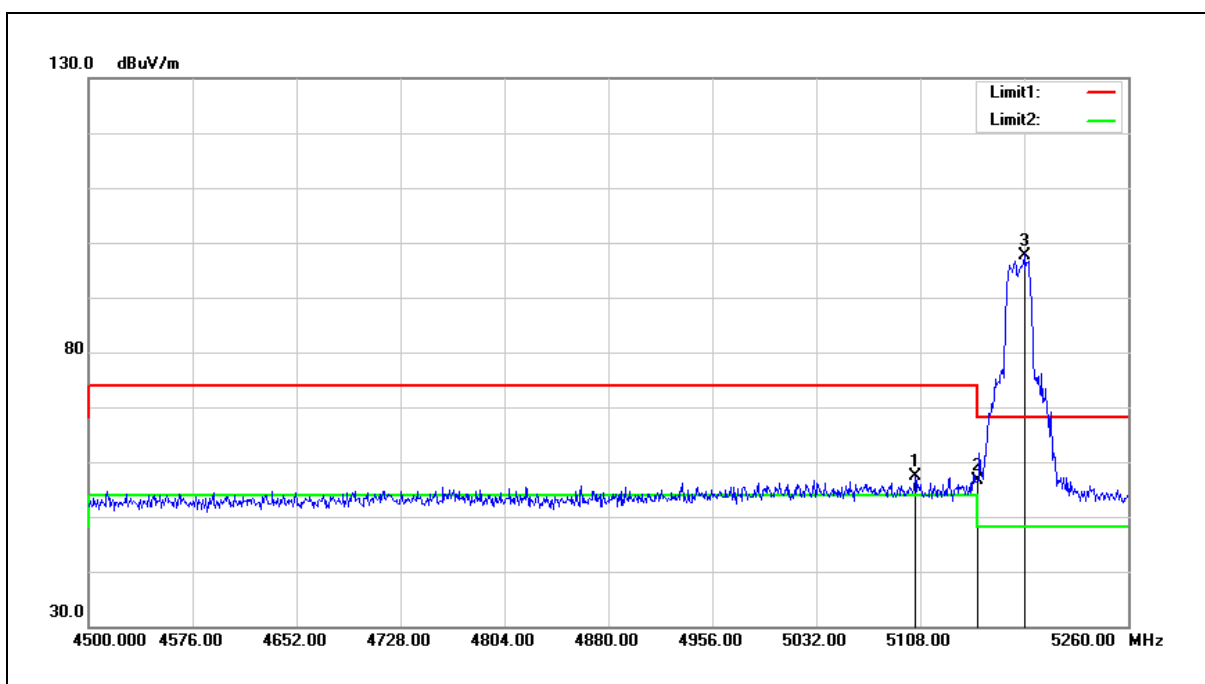
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.875	88.06	5.93	93.99	131.20	-37.21	peak
2	5850.000	50.51	5.99	56.50	122.20	-65.70	peak
3	5855.000	50.48	6.00	56.48	110.80	-54.32	peak
4	5875.000	48.94	6.04	54.98	105.20	-50.22	peak
5	5925.000	49.39	6.13	55.52	68.20	-12.68	peak
6	5969.000	51.00	6.22	57.22	68.20	-10.98	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		
Frequency:	5180 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



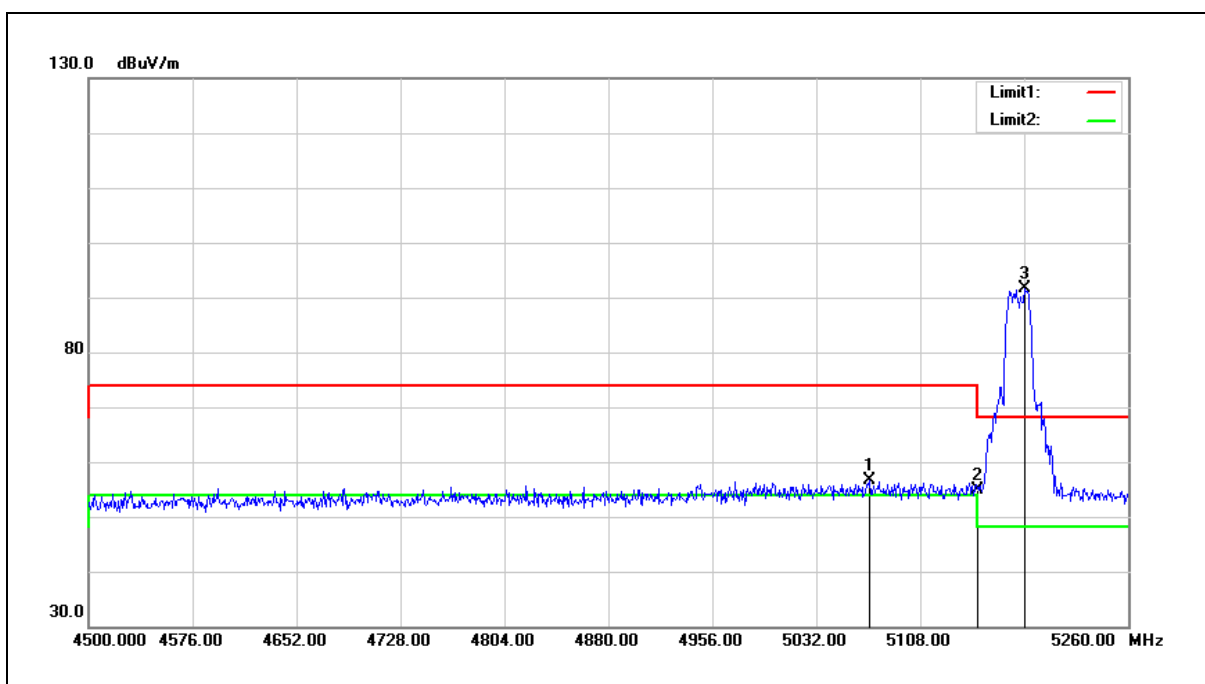
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5104.200	52.61	4.74	57.35	74.00	-16.65	peak
2	5150.000	51.93	4.80	56.73	74.00	-17.27	peak
3	5184.000	92.90	4.85	97.75	68.20	29.55	peak

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		
Frequency:	5180 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



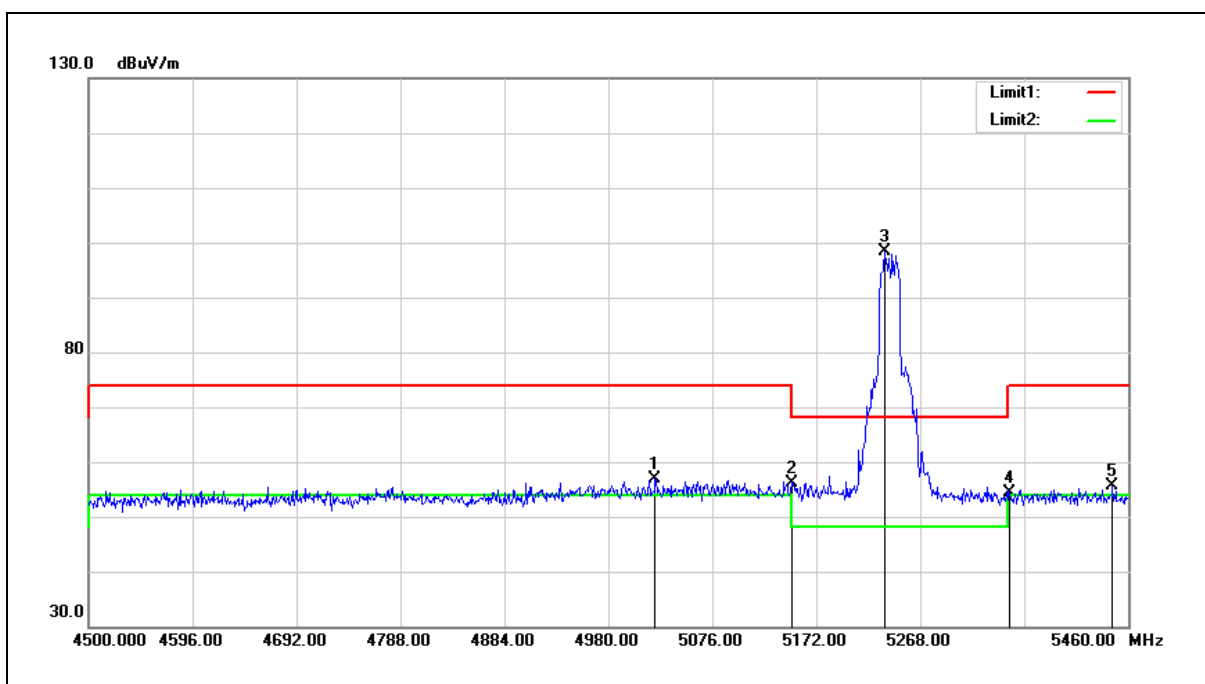
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5070.760	52.01	4.69	56.70	74.00	-17.30	peak
2	5150.000	50.15	4.80	54.95	74.00	-19.05	peak
3	5184.000	86.89	4.85	91.74	68.20	23.54	peak

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		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



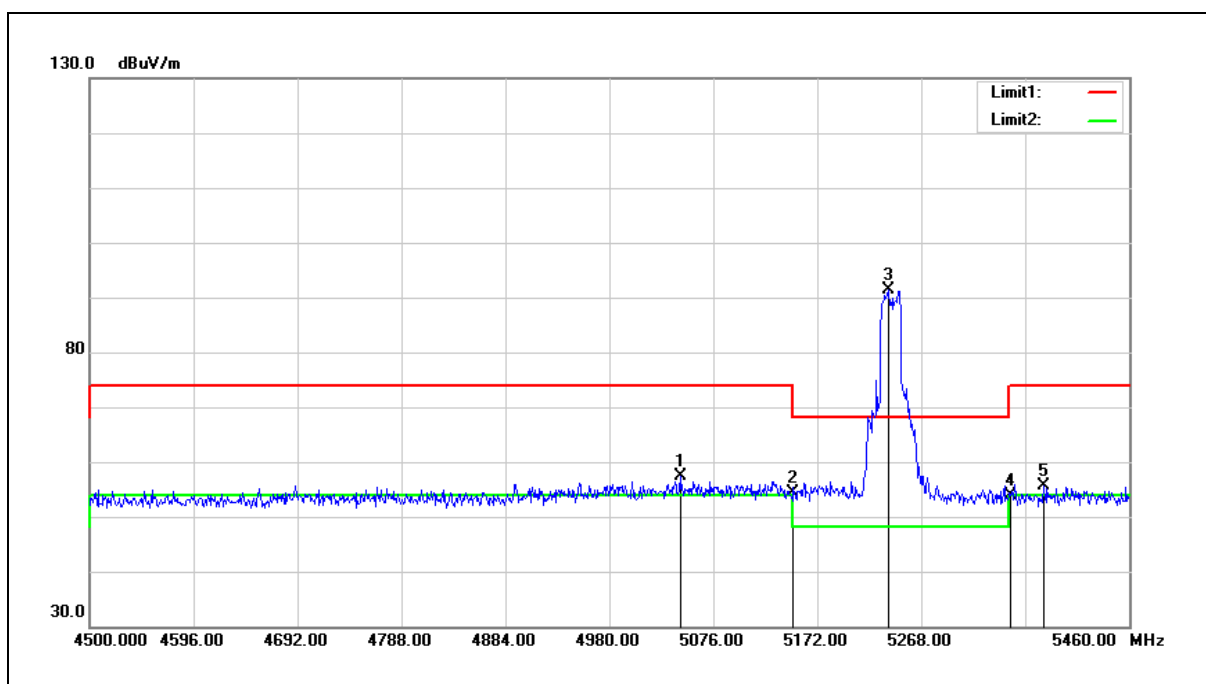
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5023.200	52.15	4.63	56.78	74.00	-17.22	peak
2	5150.000	51.23	4.80	56.03	74.00	-17.97	peak
3	5235.360	93.37	4.93	98.30	68.20	30.10	peak
4	5350.000	49.24	5.08	54.32	74.00	-19.68	peak
5	5445.600	50.33	5.21	55.54	74.00	-18.46	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		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



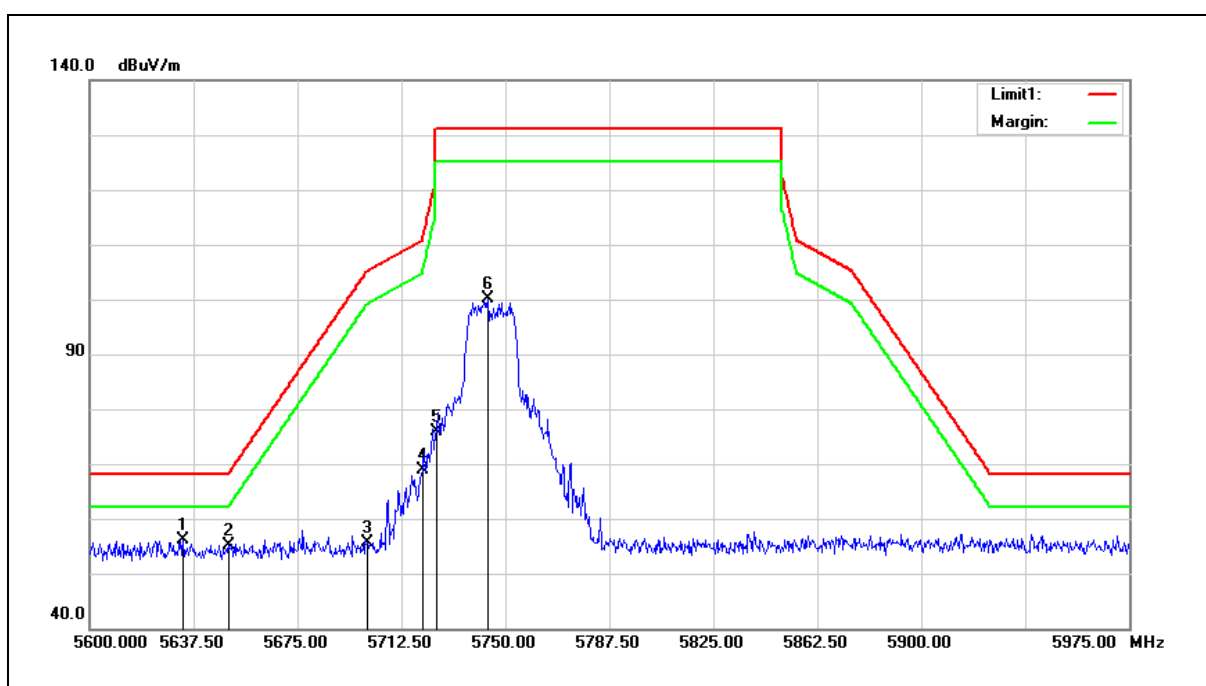
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5045.280	52.68	4.67	57.35	74.00	-16.65	peak
2	5150.000	49.64	4.80	54.44	74.00	-19.56	peak
3	5237.280	86.38	4.93	91.31	68.20	23.11	peak
4	5350.000	48.91	5.08	53.99	74.00	-20.01	peak
5	5381.280	50.54	5.12	55.66	74.00	-18.34	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		
Frequency:	5745 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



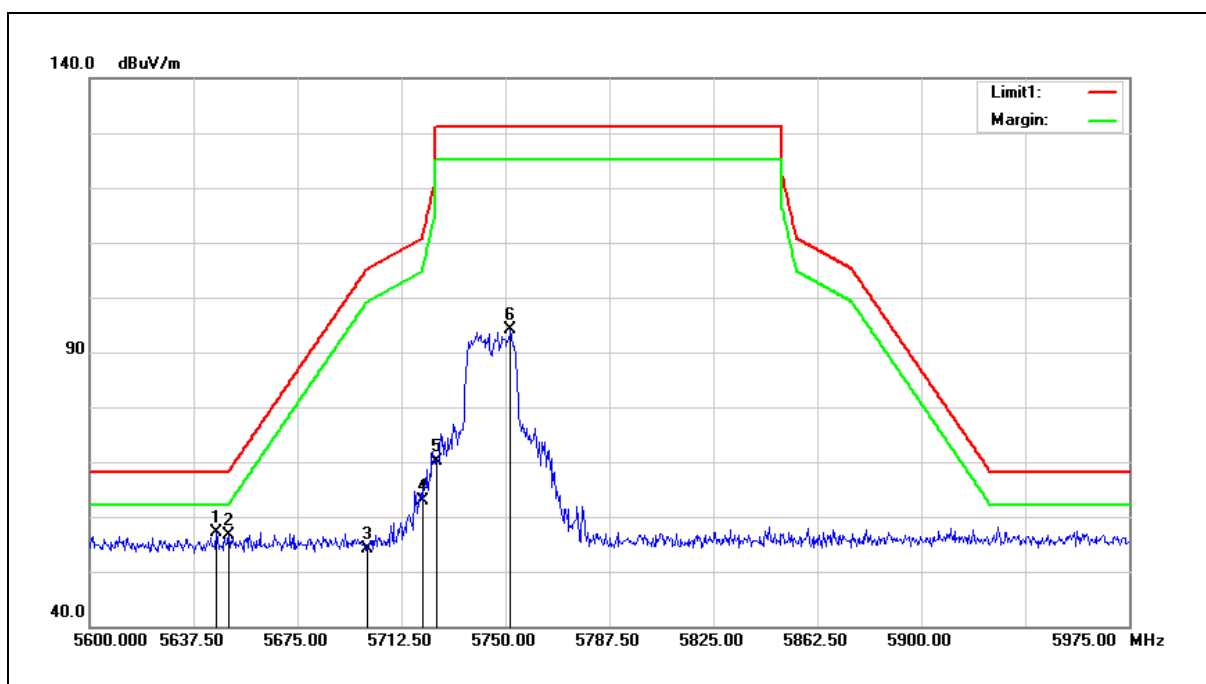
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5633.750	50.47	5.55	56.02	68.20	-12.18	peak
2	5650.000	49.44	5.58	55.02	68.20	-13.18	peak
3	5700.000	49.89	5.68	55.57	105.20	-49.63	peak
4	5720.000	63.08	5.72	68.80	110.80	-42.00	peak
5	5725.000	70.26	5.73	75.99	122.20	-46.21	peak
6	5743.625	94.35	5.77	100.12	131.20	-31.08	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		
Frequency:	5745 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



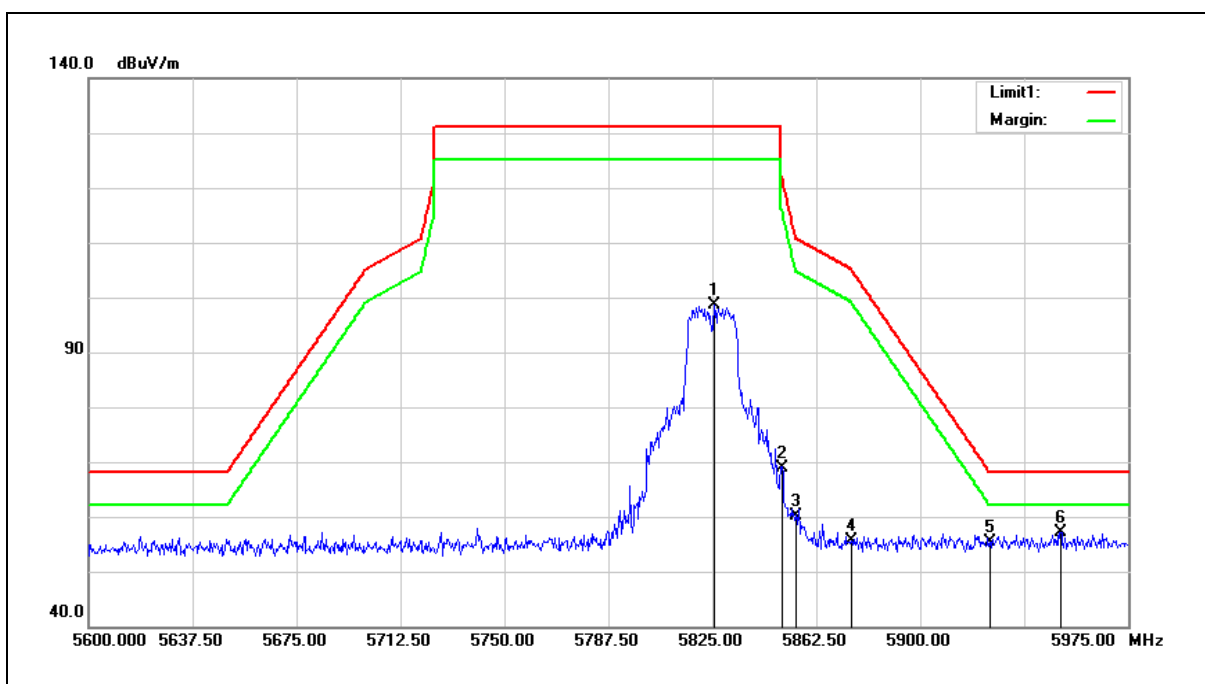
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5645.750	51.52	5.57	57.09	68.20	-11.11	peak
2	5650.000	51.02	5.58	56.60	68.20	-11.60	peak
3	5700.000	48.51	5.68	54.19	105.20	-51.01	peak
4	5720.000	57.11	5.72	62.83	110.80	-47.97	peak
5	5725.000	64.35	5.73	70.08	122.20	-52.12	peak
6	5751.875	88.40	5.78	94.18	131.20	-37.02	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:	Band edge		
Frequency:	5825 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



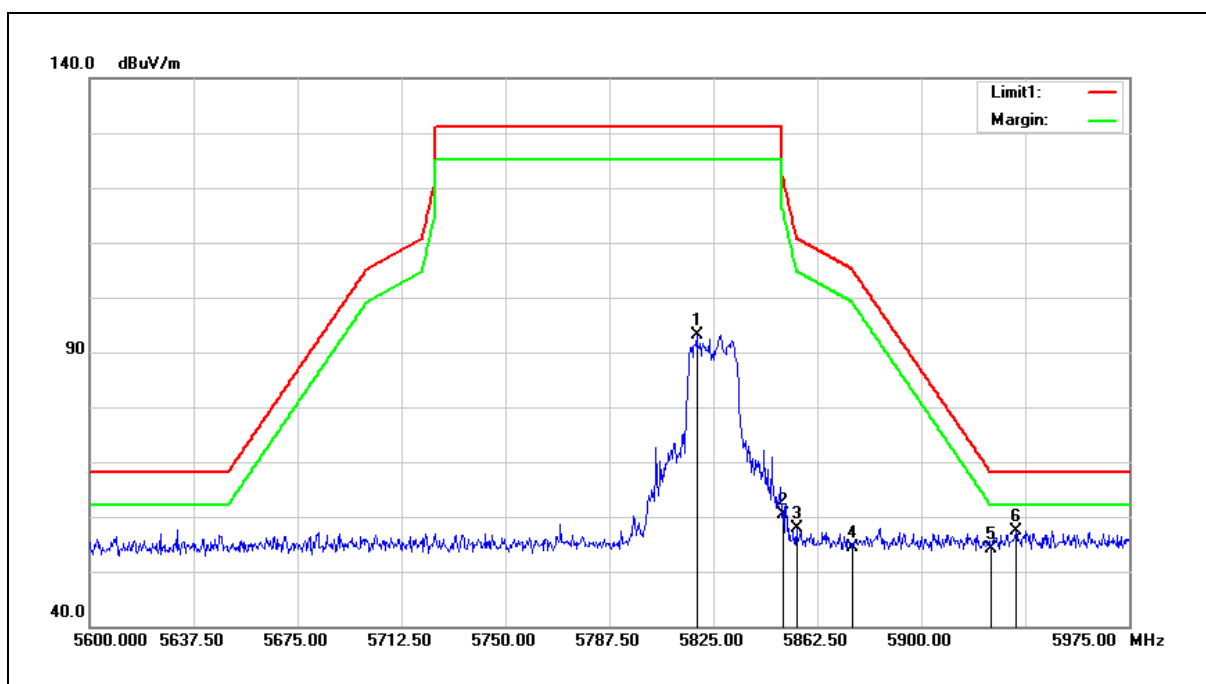
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5825.750	92.60	5.93	98.53	131.20	-32.67	peak
2	5850.000	63.01	5.99	69.00	122.20	-53.20	peak
3	5855.000	54.02	6.00	60.02	110.80	-50.78	peak
4	5875.000	49.66	6.04	55.70	105.20	-49.50	peak
5	5925.000	49.28	6.13	55.41	68.20	-12.79	peak
6	5950.625	51.02	6.18	57.20	68.20	-11.00	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:	Band edge		
Frequency:	5825 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



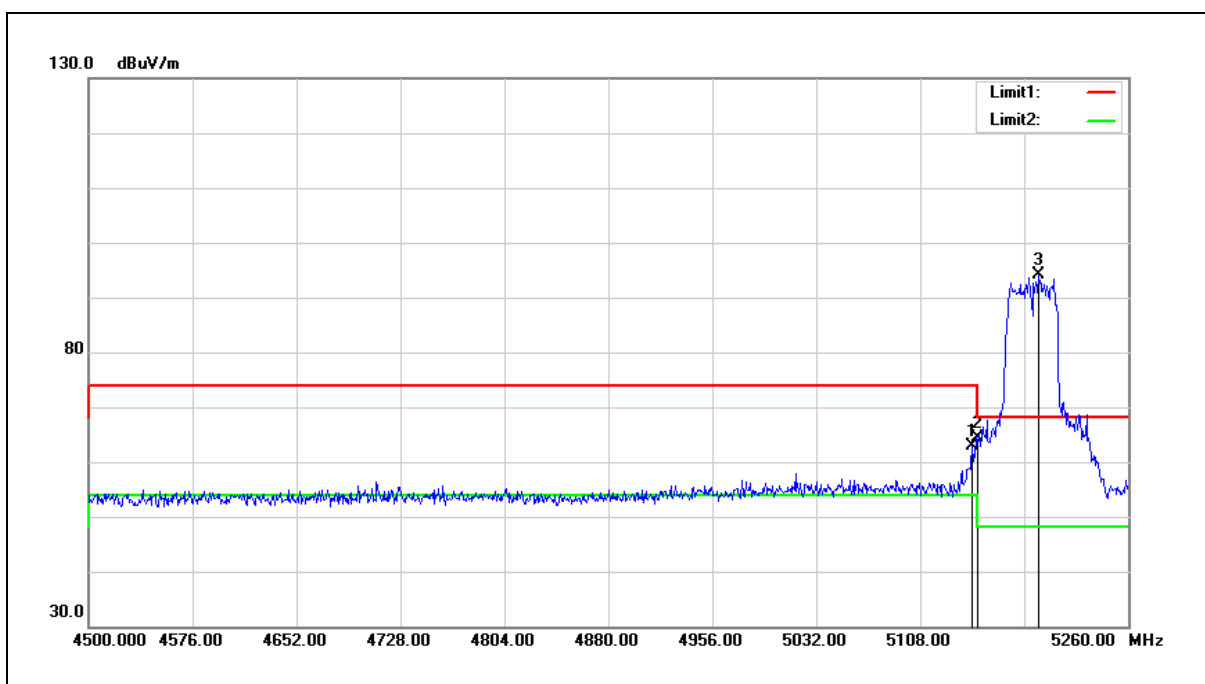
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5819.000	87.28	5.91	93.19	131.20	-38.01	peak
2	5850.000	54.37	5.99	60.36	122.20	-61.84	peak
3	5855.000	51.92	6.00	57.92	110.80	-52.88	peak
4	5875.000	48.42	6.04	54.46	105.20	-50.74	peak
5	5925.000	47.94	6.13	54.07	68.20	-14.13	peak
6	5934.125	51.34	6.15	57.49	68.20	-10.71	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		
Frequency:	5190 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



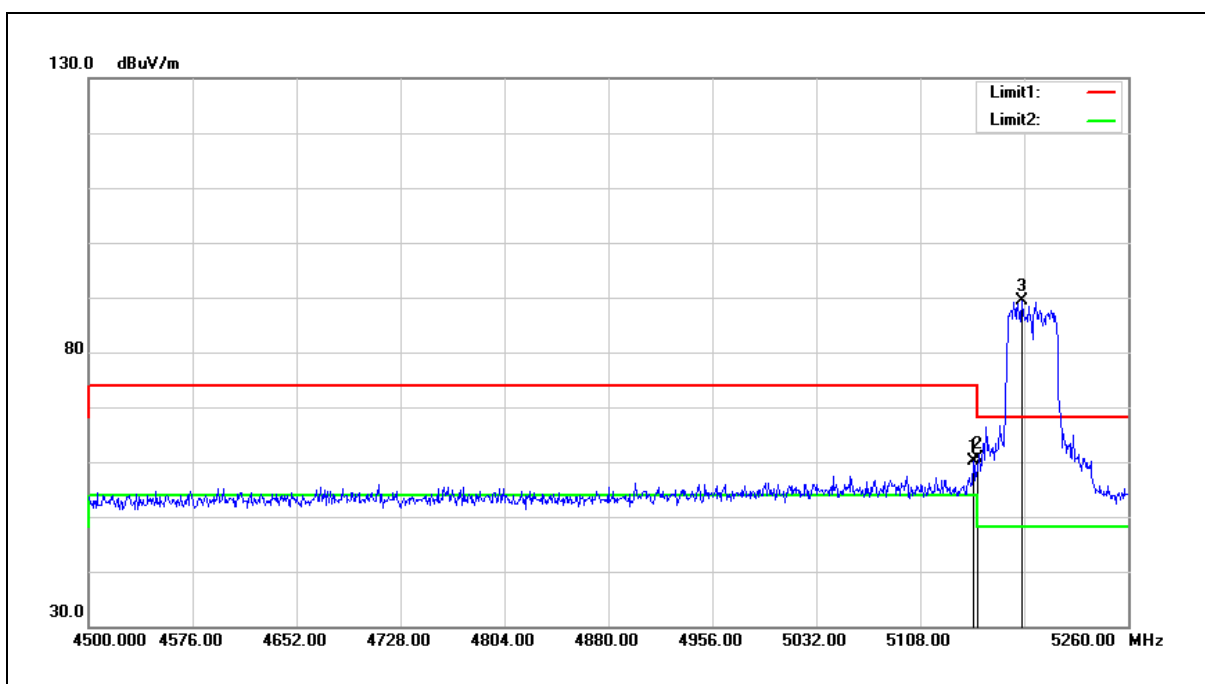
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.000	58.02	4.80	62.82	74.00	-11.18	peak
2	5150.000	59.67	4.80	64.47	74.00	-9.53	peak
3	5194.640	89.14	4.87	94.01	68.20	25.81	peak

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		
Frequency:	5190 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



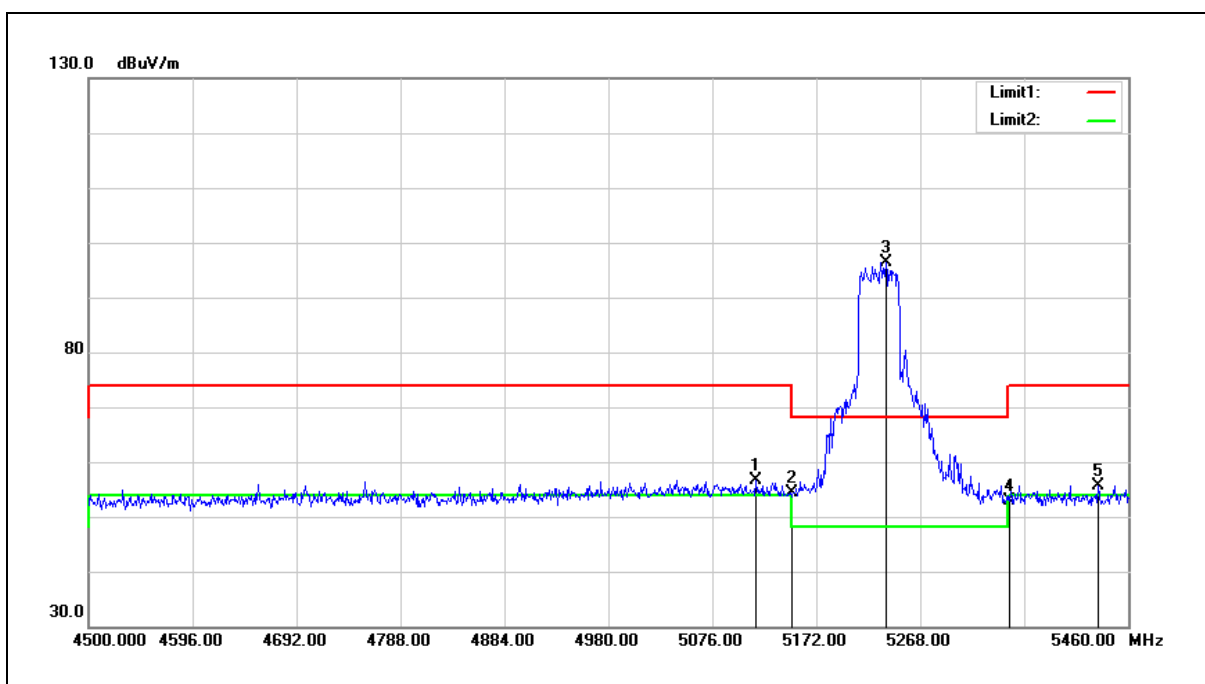
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.760	55.38	4.80	60.18	74.00	-13.82	peak
2	5150.000	55.94	4.80	60.74	74.00	-13.26	peak
3	5182.480	84.57	4.85	89.42	68.20	21.22	peak

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		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



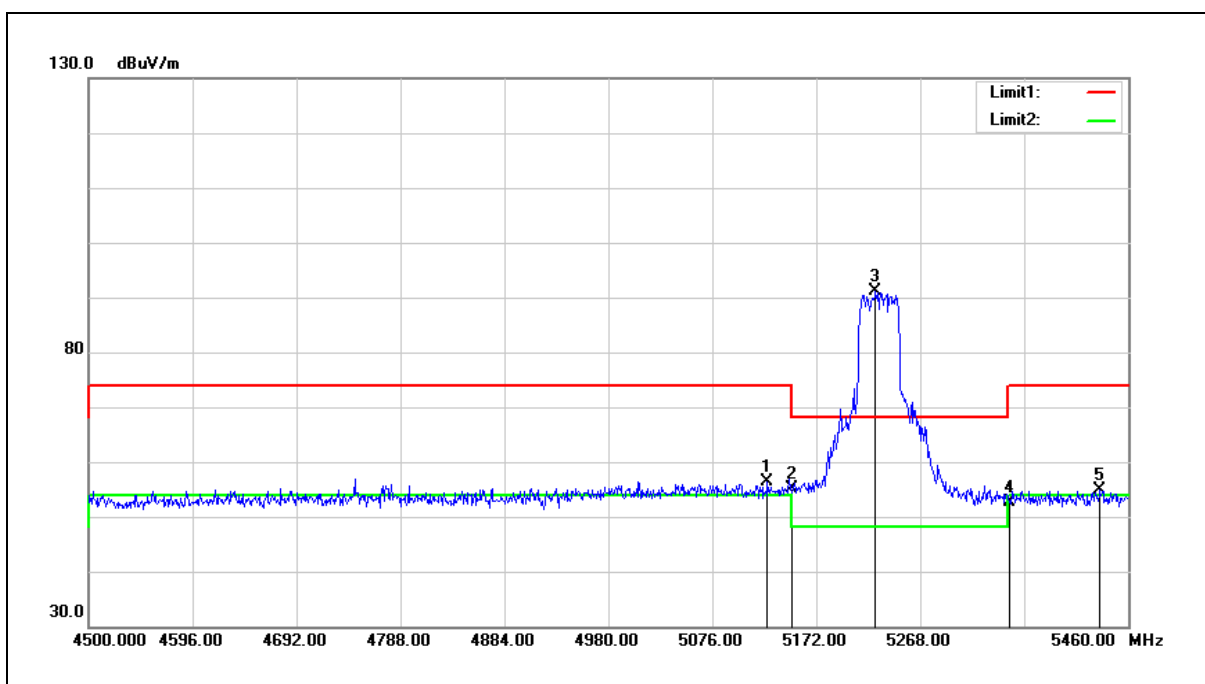
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5116.320	51.88	4.76	56.64	74.00	-17.36	peak
2	5150.000	49.70	4.80	54.50	74.00	-19.50	peak
3	5236.320	91.45	4.93	96.38	68.20	28.18	peak
4	5350.000	47.70	5.08	52.78	74.00	-21.22	peak
5	5432.160	50.43	5.19	55.62	74.00	-18.38	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



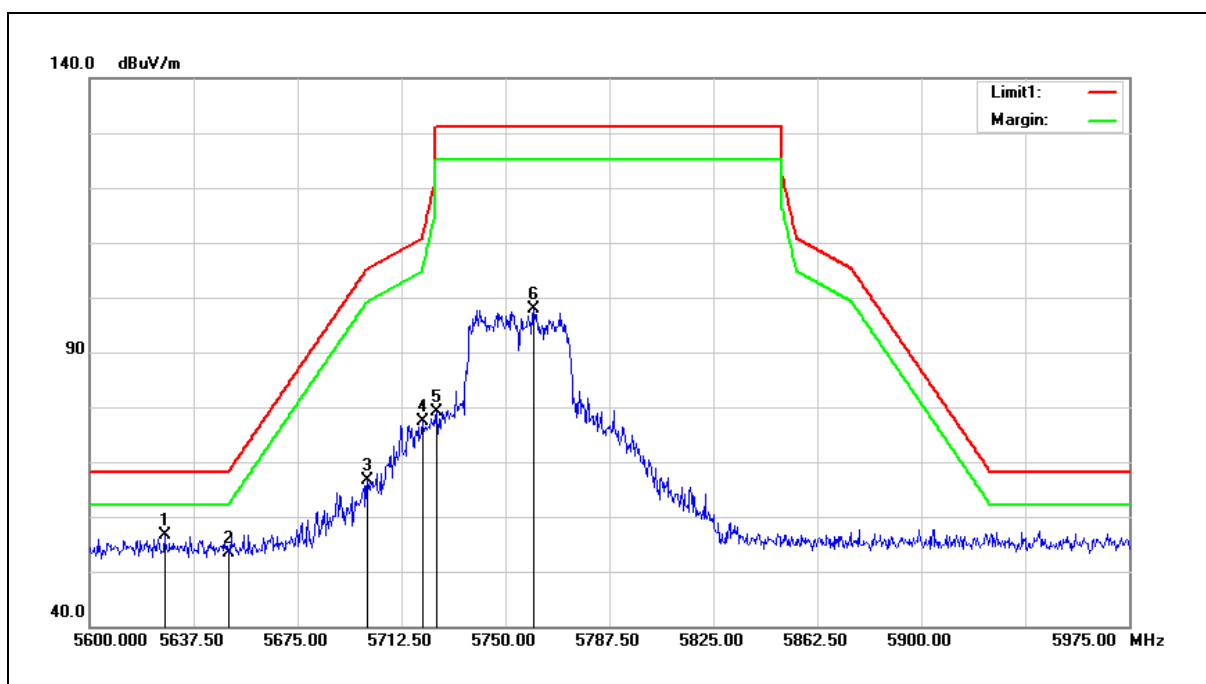
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5126.880	51.64	4.77	56.41	74.00	-17.59	peak
2	5150.000	50.33	4.80	55.13	74.00	-18.87	peak
3	5226.720	86.21	4.92	91.13	68.20	22.93	peak
4	5350.000	47.47	5.08	52.55	74.00	-21.45	peak
5	5434.080	49.67	5.19	54.86	74.00	-19.14	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5755 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



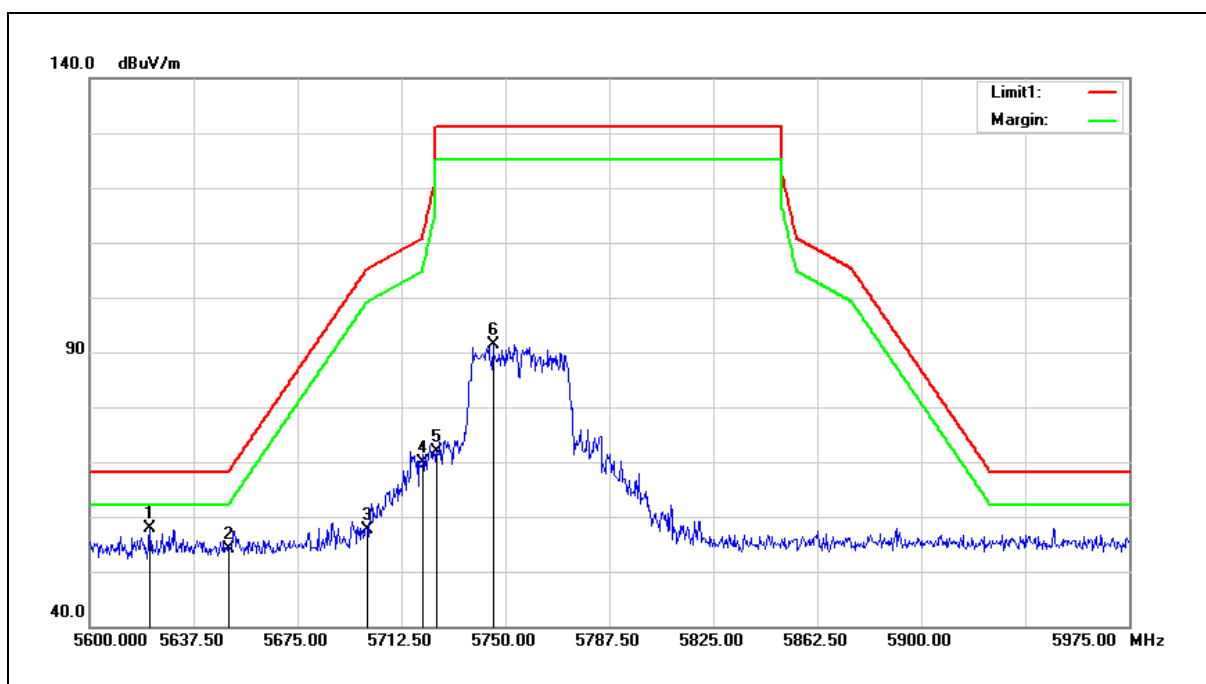
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5627.000	51.14	5.54	56.68	68.20	-11.52	peak
2	5650.000	47.78	5.58	53.36	68.20	-14.84	peak
3	5700.000	61.07	5.68	66.75	105.20	-38.45	peak
4	5720.000	71.56	5.72	77.28	110.80	-33.52	peak
5	5725.000	73.49	5.73	79.22	122.20	-42.98	peak
6	5760.125	92.04	5.80	97.84	131.20	-33.36	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		
Frequency:	5755 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



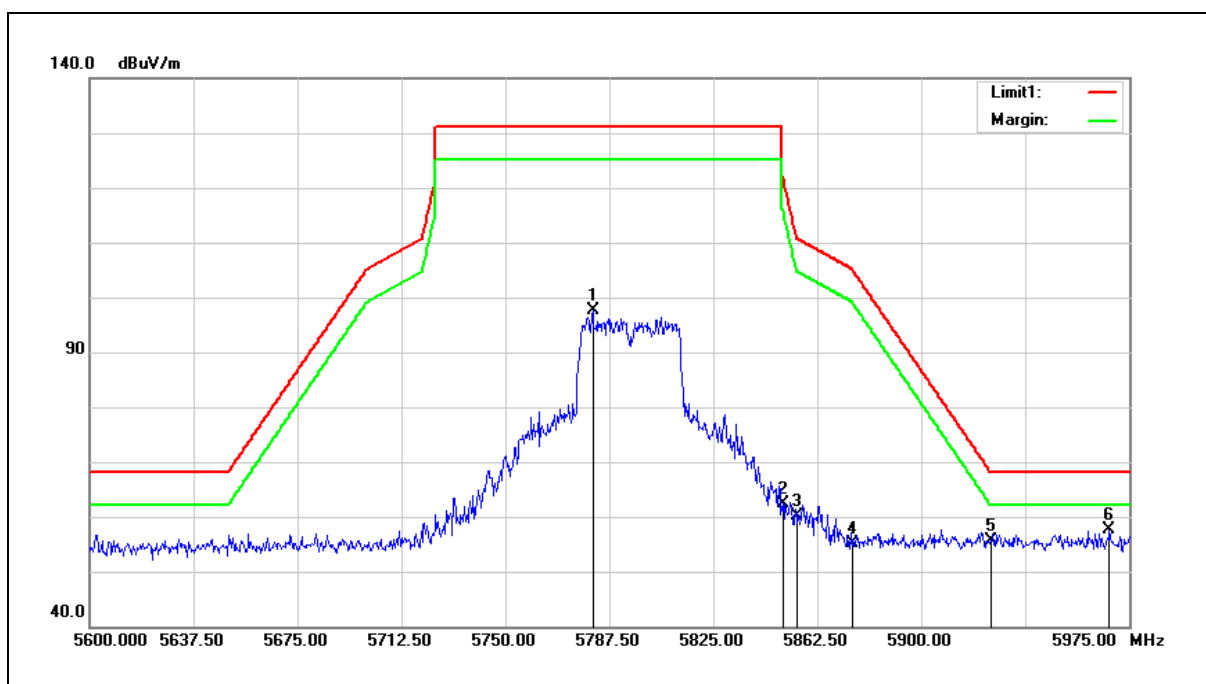
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5621.750	52.30	5.53	57.83	68.20	-10.37	peak
2	5650.000	48.66	5.58	54.24	68.20	-13.96	peak
3	5700.000	51.97	5.68	57.65	105.20	-47.55	peak
4	5720.000	64.04	5.72	69.76	110.80	-41.04	peak
5	5725.000	66.05	5.73	71.78	122.20	-50.42	peak
6	5745.500	85.71	5.77	91.48	131.20	-39.72	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:	Band edge		
Frequency:	5795 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



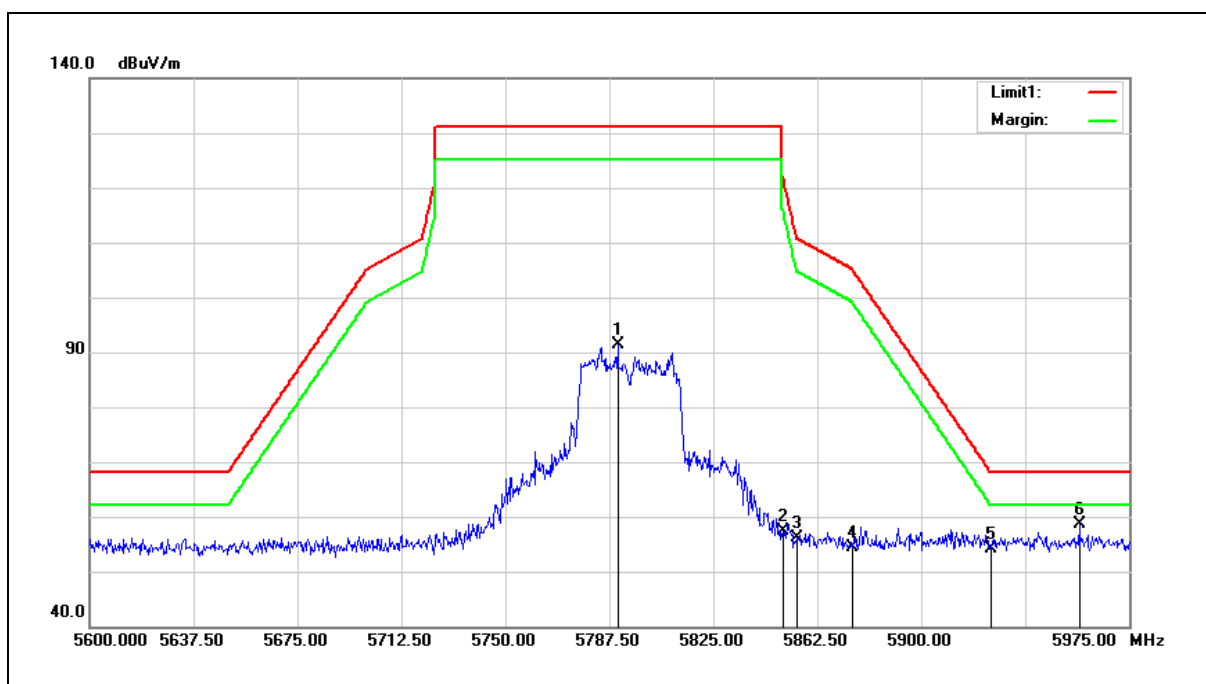
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5781.500	91.71	5.84	97.55	131.20	-33.65	peak
2	5850.000	56.41	5.99	62.40	122.20	-59.80	peak
3	5855.000	54.21	6.00	60.21	110.80	-50.59	peak
4	5875.000	49.12	6.04	55.16	105.20	-50.04	peak
5	5925.000	49.49	6.13	55.62	68.20	-12.58	peak
6	5967.875	51.32	6.22	57.54	68.20	-10.66	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		
Frequency:	5795 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



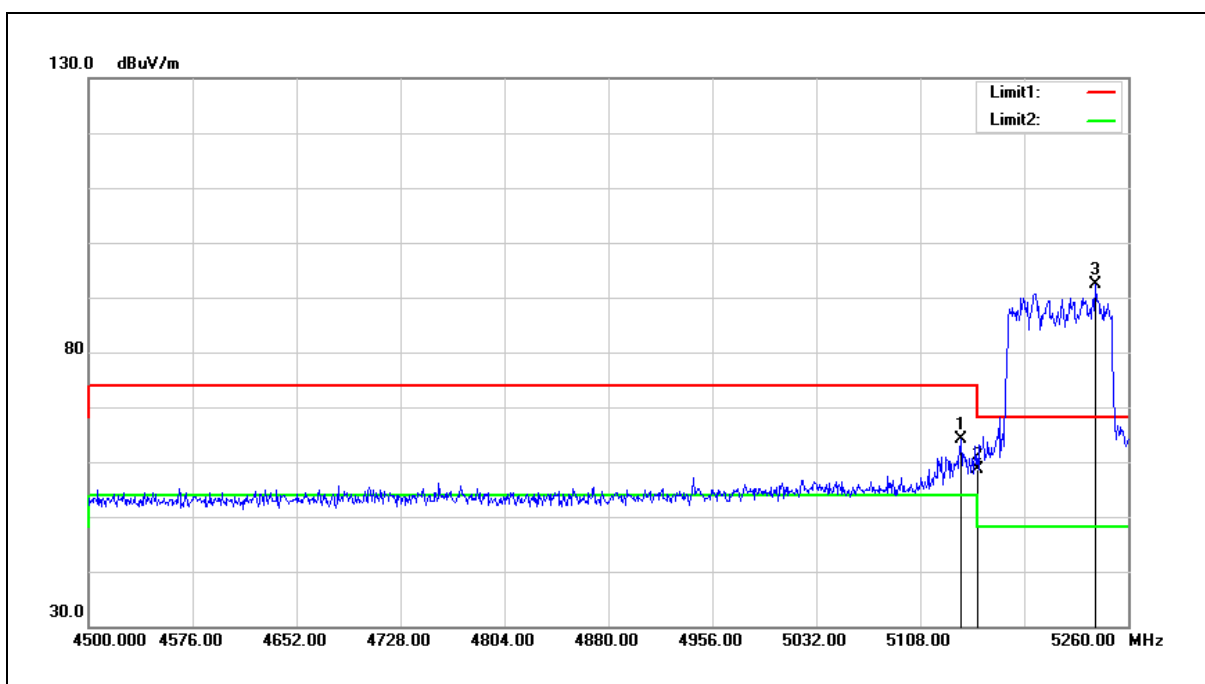
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5790.500	85.46	5.86	91.32	131.20	-39.88	peak
2	5850.000	51.31	5.99	57.30	122.20	-64.90	peak
3	5855.000	50.22	6.00	56.22	110.80	-54.58	peak
4	5875.000	48.45	6.04	54.49	105.20	-50.71	peak
5	5925.000	48.02	6.13	54.15	68.20	-14.05	peak
6	5957.000	52.32	6.20	58.52	68.20	-9.68	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



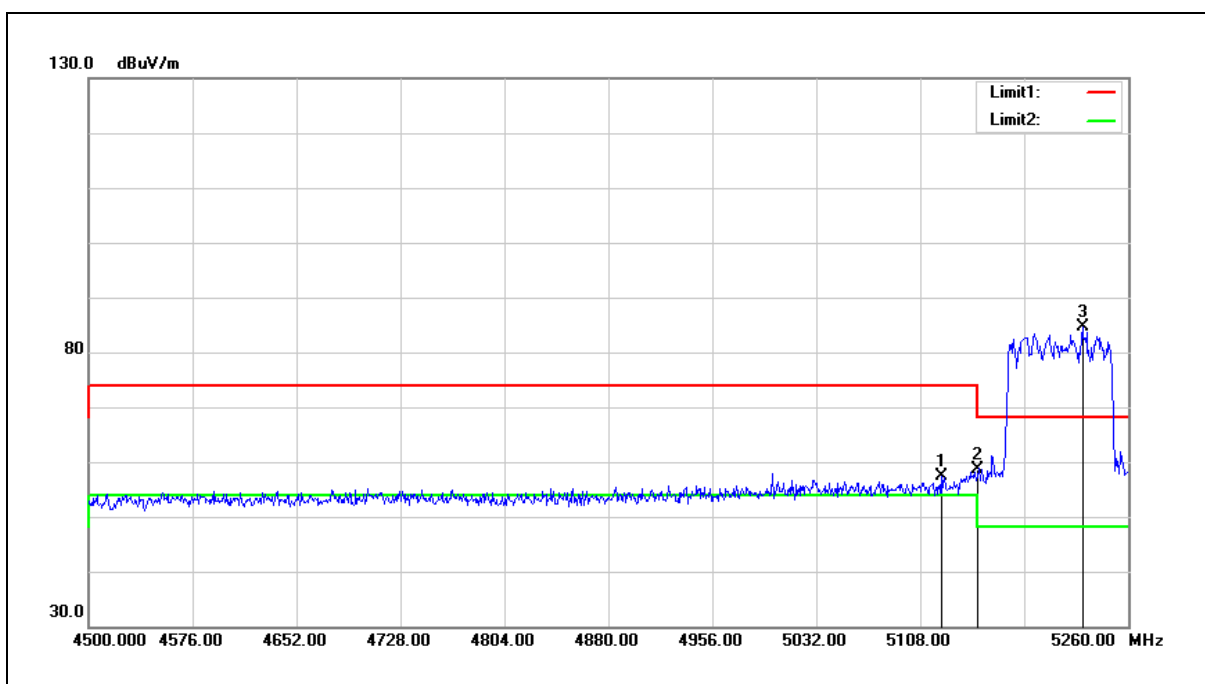
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5137.640	59.46	4.79	64.25	74.00	-9.75	peak
2	5150.000	53.77	4.80	58.57	74.00	-15.43	peak
3	5235.680	87.35	4.93	92.28	68.20	24.08	peak

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		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



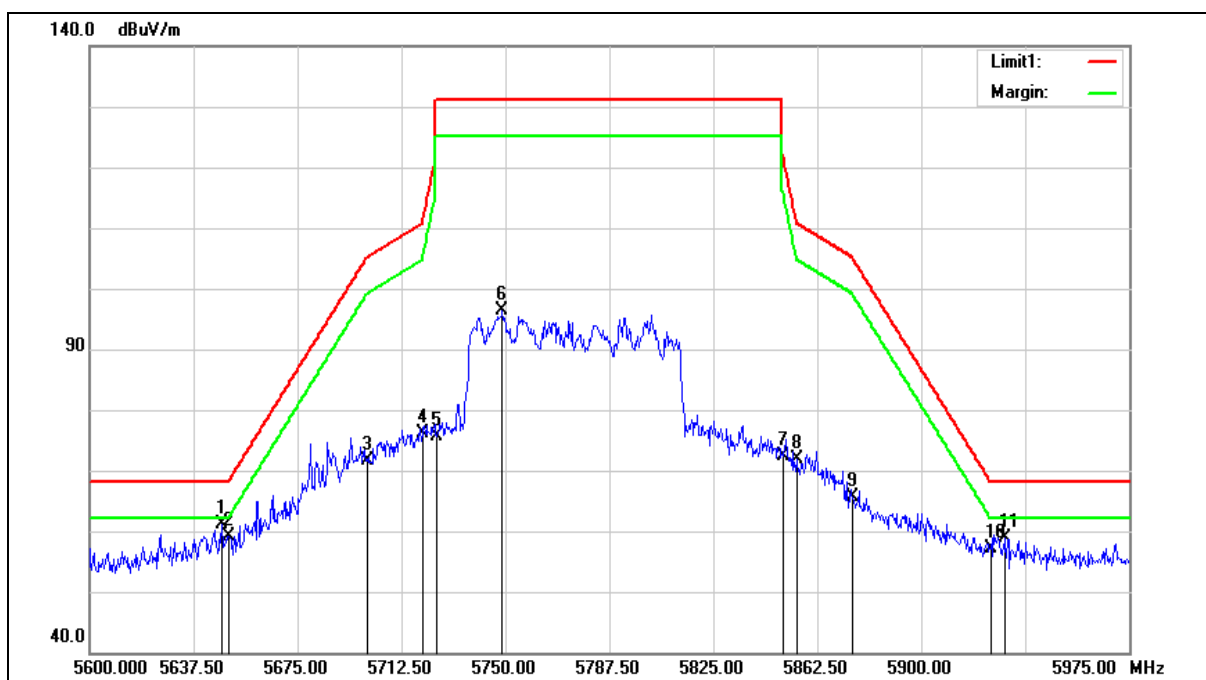
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5123.200	52.64	4.76	57.40	74.00	-16.60	peak
2	5150.000	53.71	4.80	58.51	74.00	-15.49	peak
3	5226.560	79.61	4.92	84.53	68.20	16.33	peak

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		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		

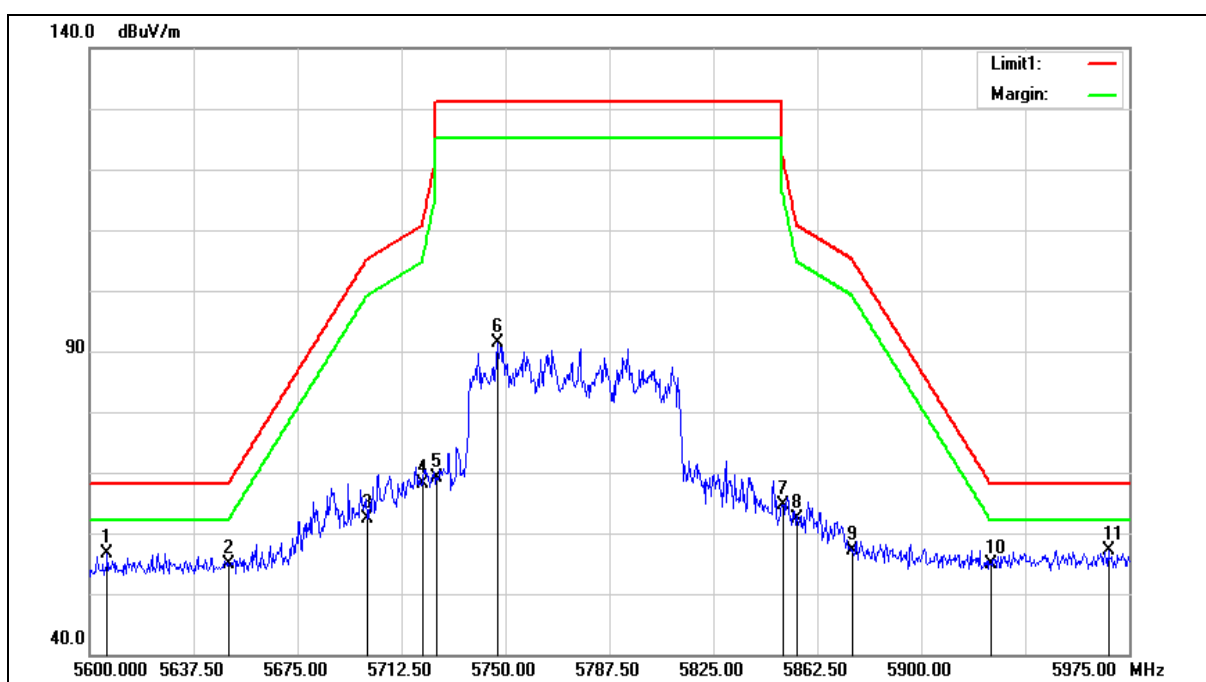
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5647.625	55.55	5.58	61.13	68.20	-7.07	peak
2	5650.000	53.47	5.58	59.05	68.20	-9.15	peak
3	5700.000	65.93	5.68	71.61	105.20	-33.59	peak
4	5720.000	70.34	5.72	76.06	110.80	-34.74	peak
5	5725.000	69.99	5.73	75.72	122.20	-46.48	peak
6	5748.875	90.64	5.78	96.42	131.20	-34.78	peak
7	5850.000	66.49	5.99	72.48	122.20	-49.72	peak
8	5855.000	65.80	6.00	71.80	110.80	-39.00	peak
9	5875.000	59.63	6.04	65.67	105.20	-39.53	peak
10	5925.000	51.06	6.13	57.19	68.20	-11.01	peak
11	5930.375	52.77	6.15	58.92	68.20	-9.28	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		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5606.375	51.24	5.50	56.74	68.20	-11.46	peak
2	5650.000	49.22	5.58	54.80	68.20	-13.40	peak
3	5700.000	56.79	5.68	62.47	105.20	-42.73	peak
4	5720.000	62.35	5.72	68.07	110.80	-42.73	peak
5	5725.000	63.30	5.73	69.03	122.20	-53.17	peak
6	5747.000	85.56	5.78	91.34	131.20	-39.86	peak
7	5850.000	58.76	5.99	64.75	122.20	-57.45	peak
8	5855.000	56.32	6.00	62.32	110.80	-48.48	peak
9	5875.000	50.99	6.04	57.03	105.20	-48.17	peak
10	5925.000	48.80	6.13	54.93	68.20	-13.27	peak
11	5967.500	50.86	6.22	57.08	68.20	-11.12	peak

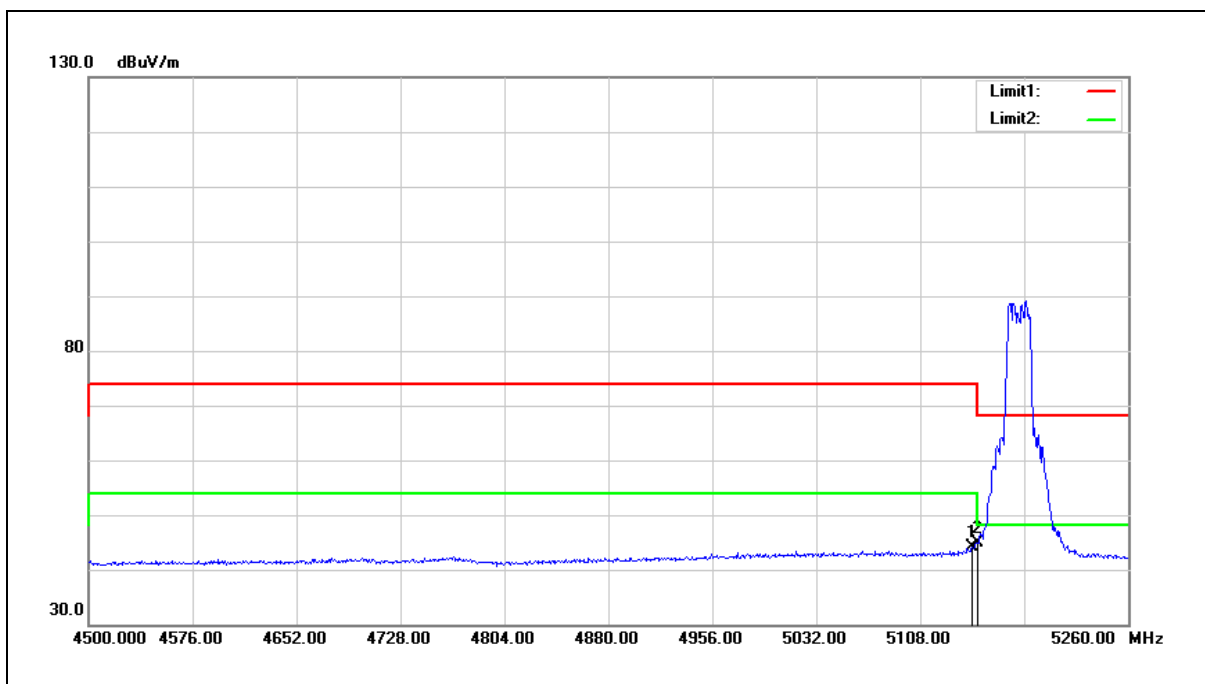
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.

Average

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5180 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



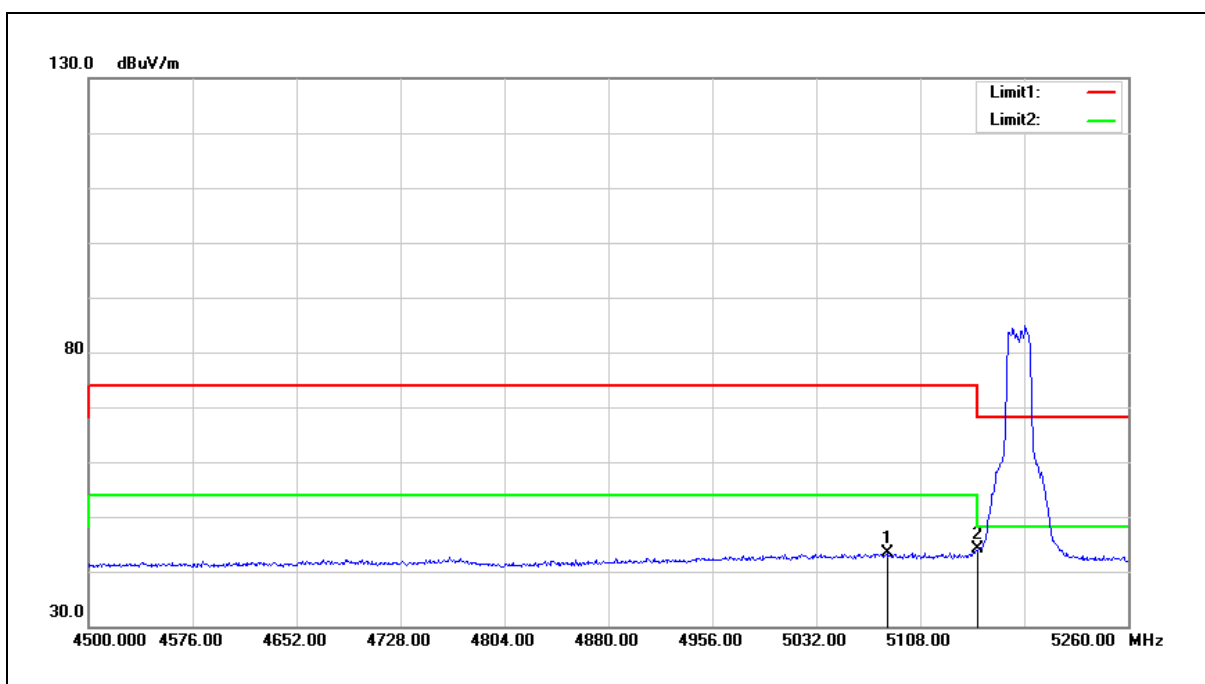
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.000	39.28	4.80	44.08	54.00	-9.92	AVG
2	5150.000	40.07	4.80	44.87	54.00	-9.13	AVG

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:	Band edge		
Frequency:	5180 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



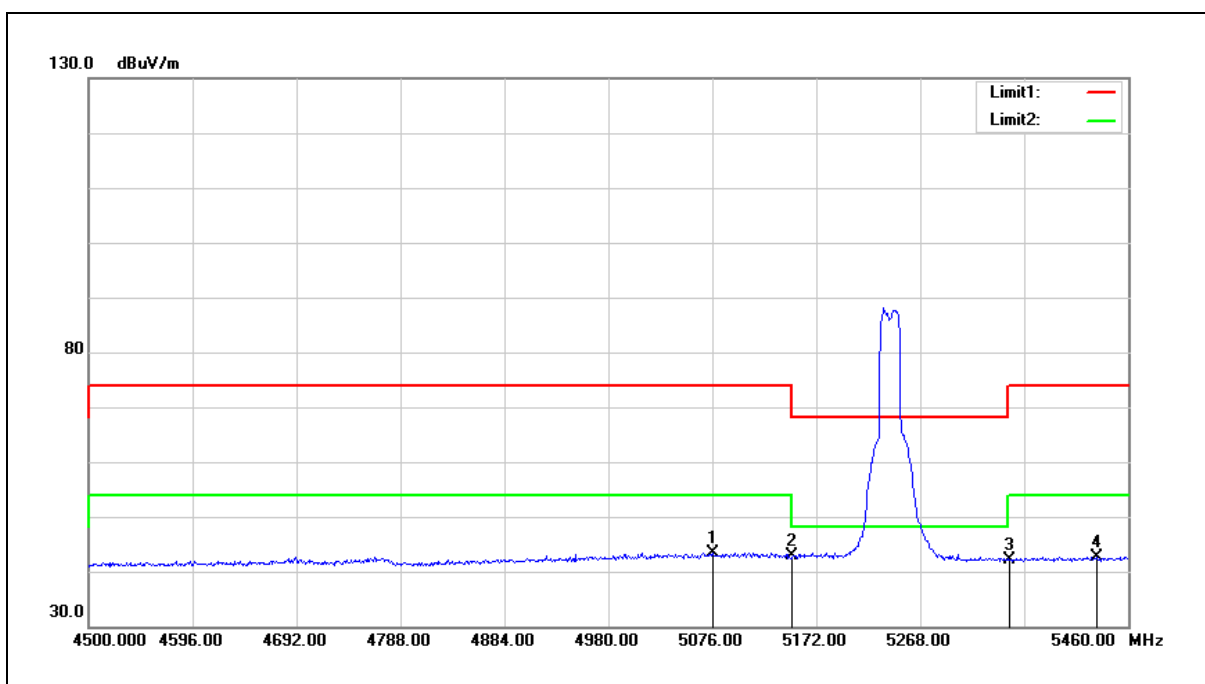
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5083.680	38.64	4.71	43.35	54.00	-10.65	AVG
2	5150.000	39.30	4.80	44.10	54.00	-9.90	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



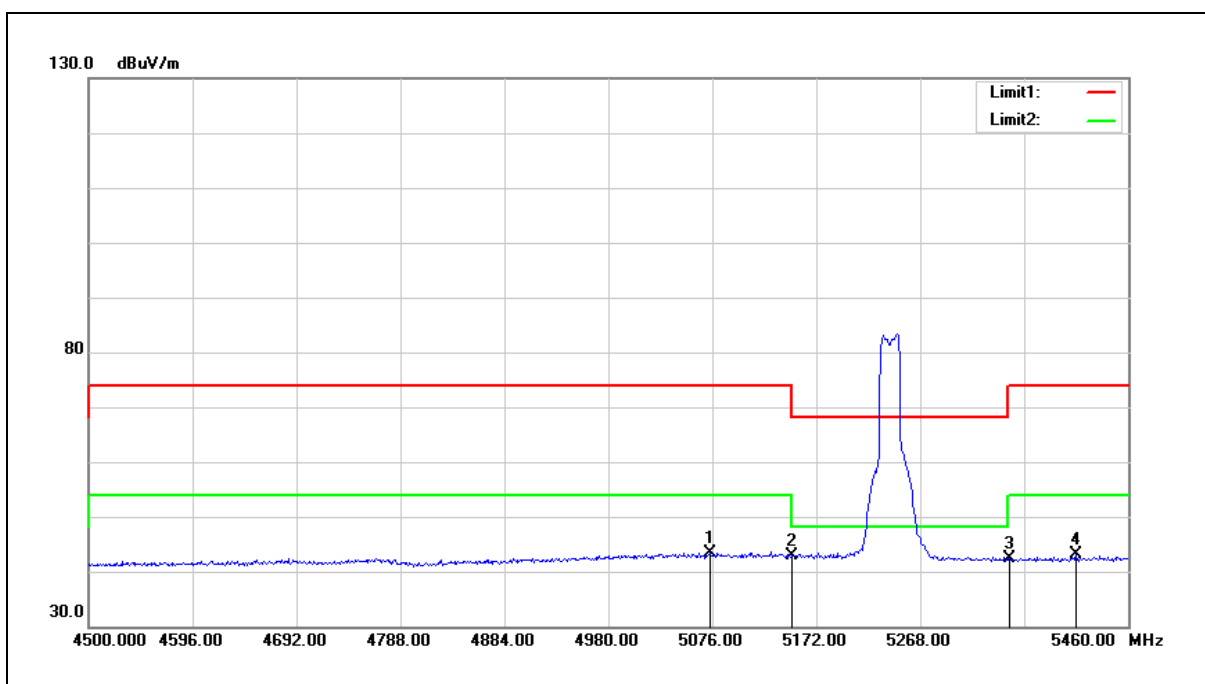
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5076.000	38.70	4.71	43.41	54.00	-10.59	AVG
2	5150.000	38.06	4.80	42.86	54.00	-11.14	AVG
3	5350.000	37.13	5.08	42.21	54.00	-11.79	AVG
4	5431.200	37.45	5.19	42.64	54.00	-11.36	AVG

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		
Frequency:	5240 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



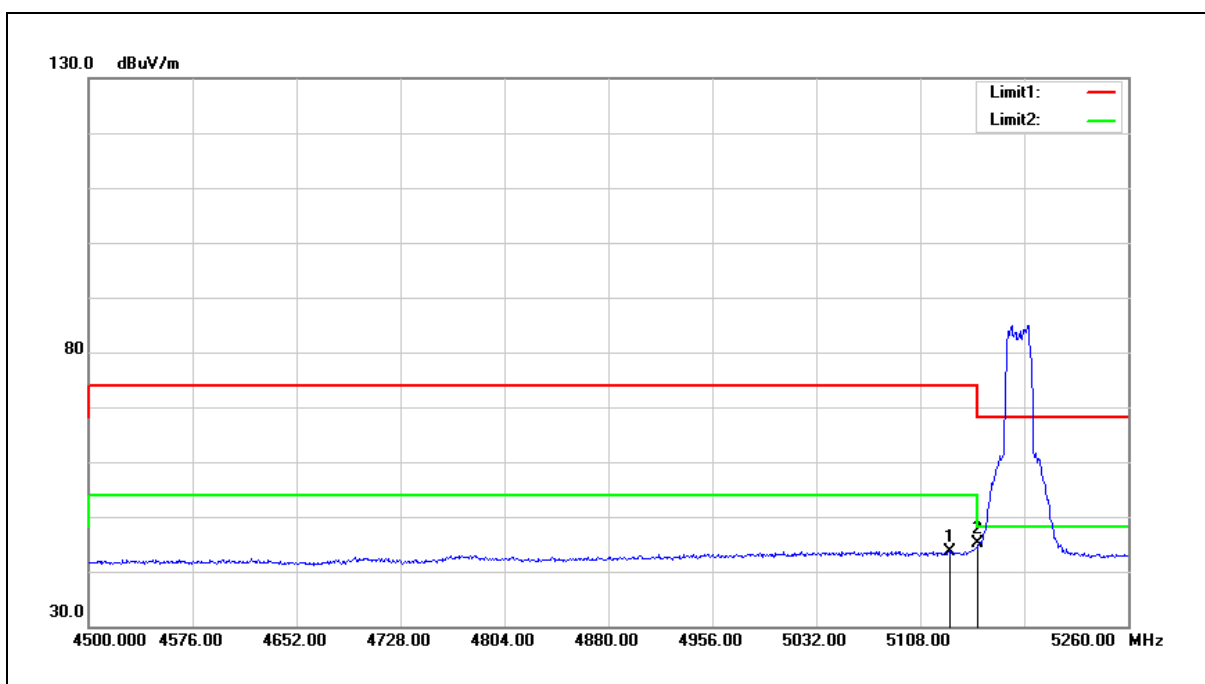
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5074.080	38.69	4.70	43.39	54.00	-10.61	AVG
2	5150.000	38.06	4.80	42.86	54.00	-11.14	AVG
3	5350.000	37.26	5.08	42.34	54.00	-11.66	AVG
4	5412.000	37.94	5.16	43.10	54.00	-10.90	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5180 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



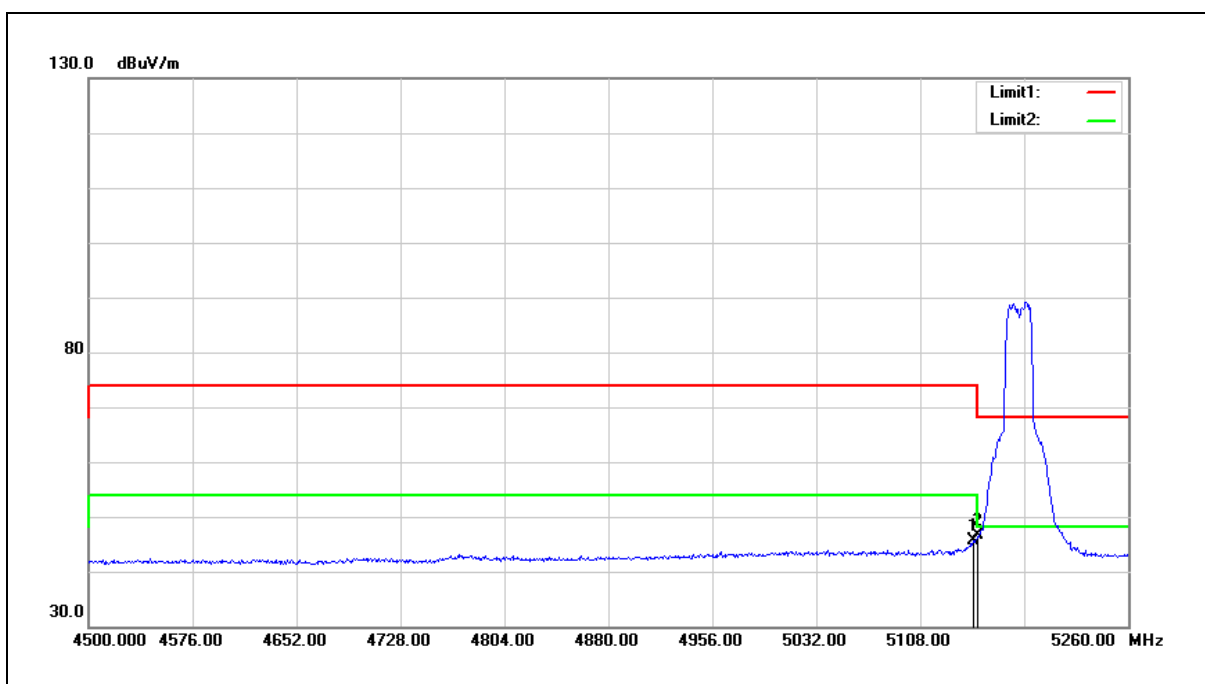
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5129.280	38.98	4.77	43.75	54.00	-10.25	AVG
2	5150.000	40.32	4.80	45.12	54.00	-8.88	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5180 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



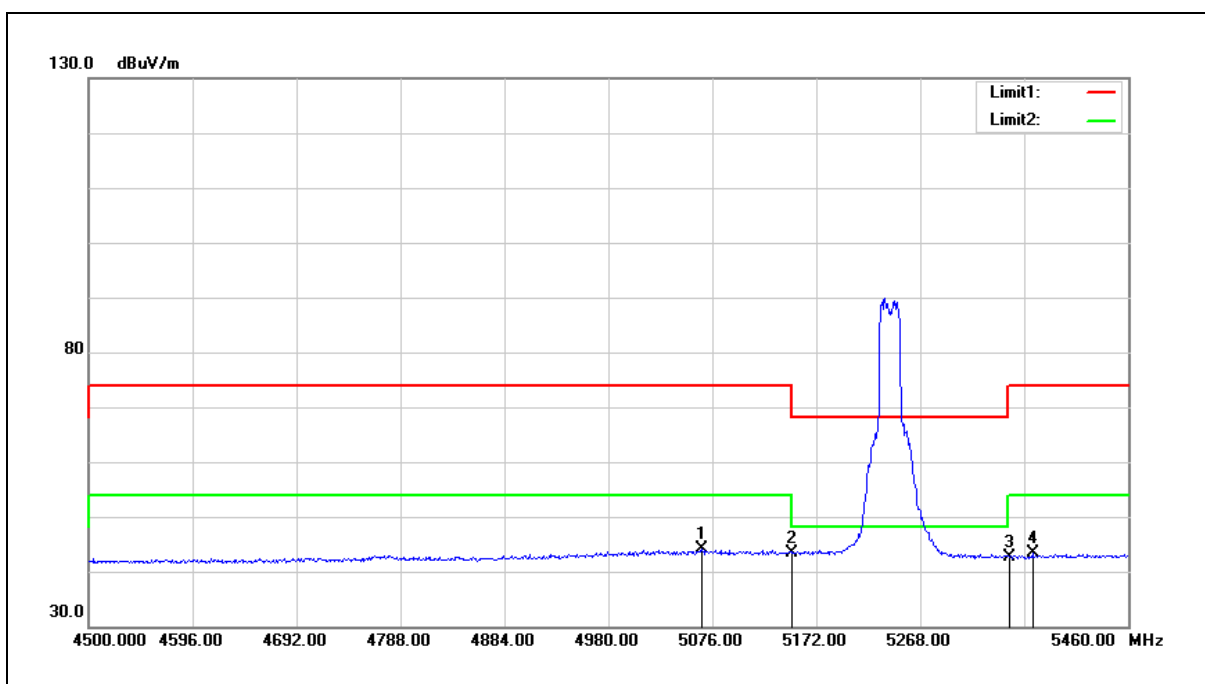
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.760	40.89	4.80	45.69	54.00	-8.31	AVG
2	5150.000	41.74	4.80	46.54	54.00	-7.46	AVG

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		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



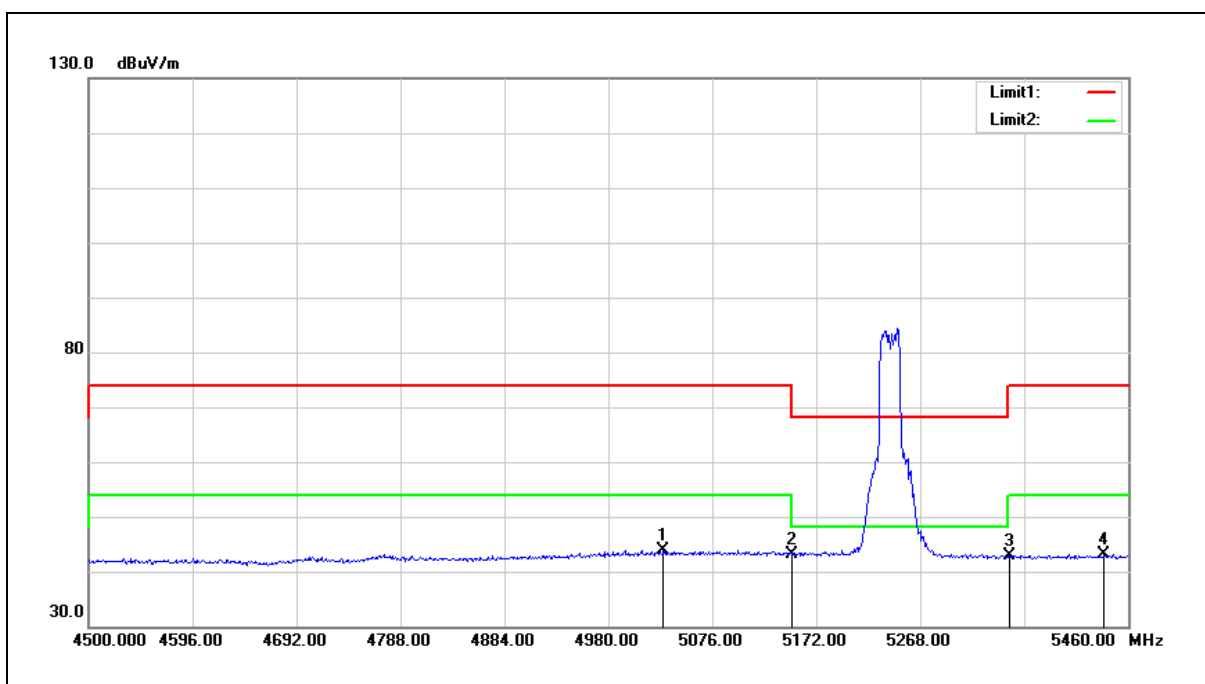
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5066.400	39.40	4.69	44.09	54.00	-9.91	AVG
2	5150.000	38.67	4.80	43.47	54.00	-10.53	AVG
3	5350.000	37.62	5.08	42.70	54.00	-11.30	AVG
4	5371.680	38.20	5.11	43.31	54.00	-10.69	AVG

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		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



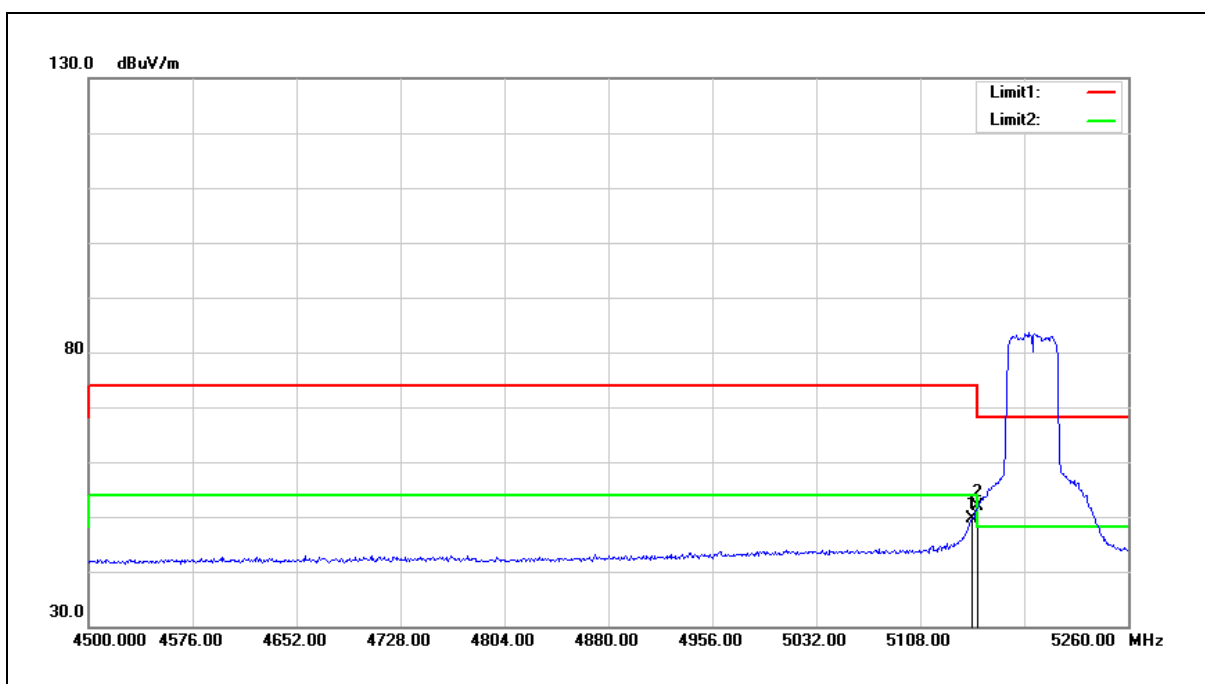
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5030.880	39.35	4.64	43.99	54.00	-10.01	AVG
2	5150.000	38.40	4.80	43.20	54.00	-10.80	AVG
3	5350.000	37.76	5.08	42.84	54.00	-11.16	AVG
4	5437.920	37.92	5.20	43.12	54.00	-10.88	AVG

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		
Frequency:	5190 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



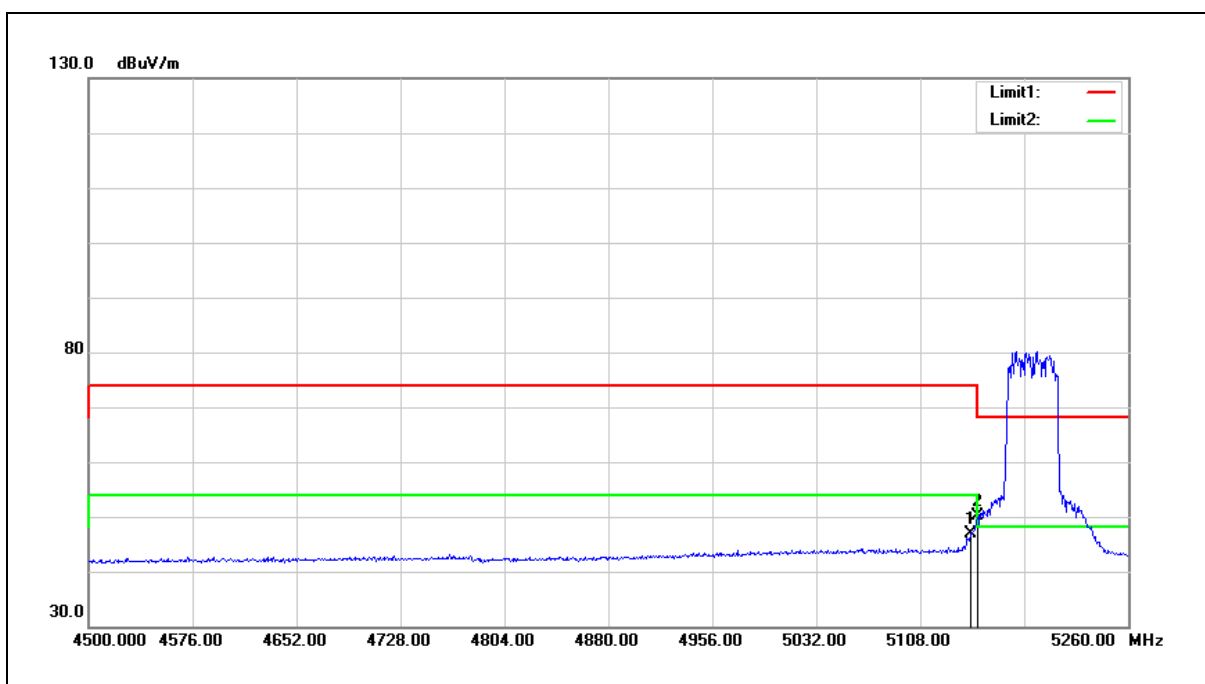
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.000	44.78	4.80	49.58	54.00	-4.42	AVG
2	5150.000	47.10	4.80	51.90	54.00	-2.10	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5190 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



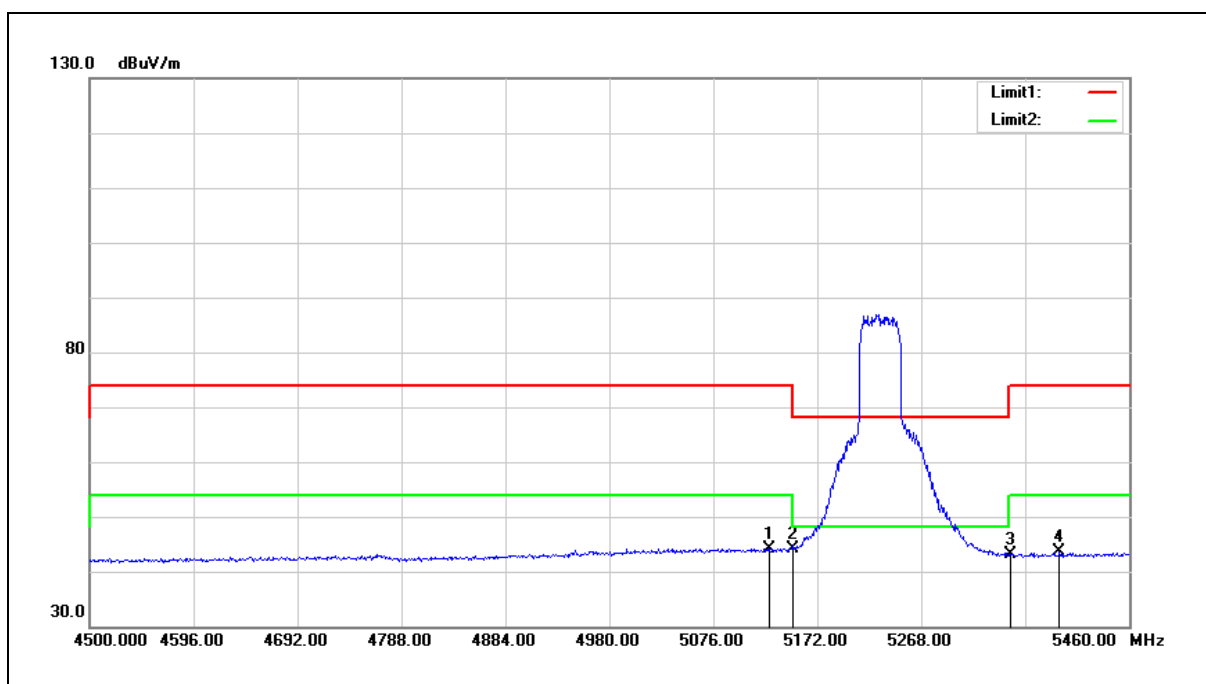
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.480	42.18	4.79	46.97	54.00	-7.03	AVG
2	5150.000	45.22	4.80	50.02	54.00	-3.98	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



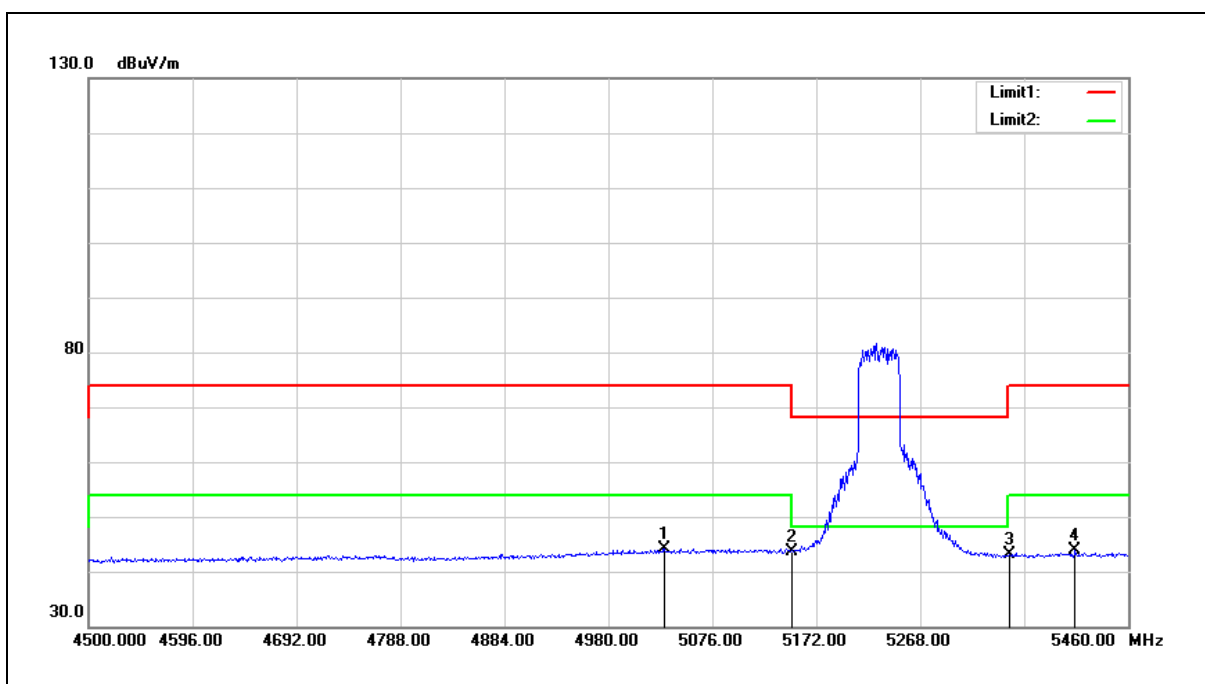
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5127.840	39.46	4.77	44.23	54.00	-9.77	AVG
2	5150.000	39.38	4.80	44.18	54.00	-9.82	AVG
3	5350.000	37.99	5.08	43.07	54.00	-10.93	AVG
4	5395.680	38.37	5.14	43.51	54.00	-10.49	AVG

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		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



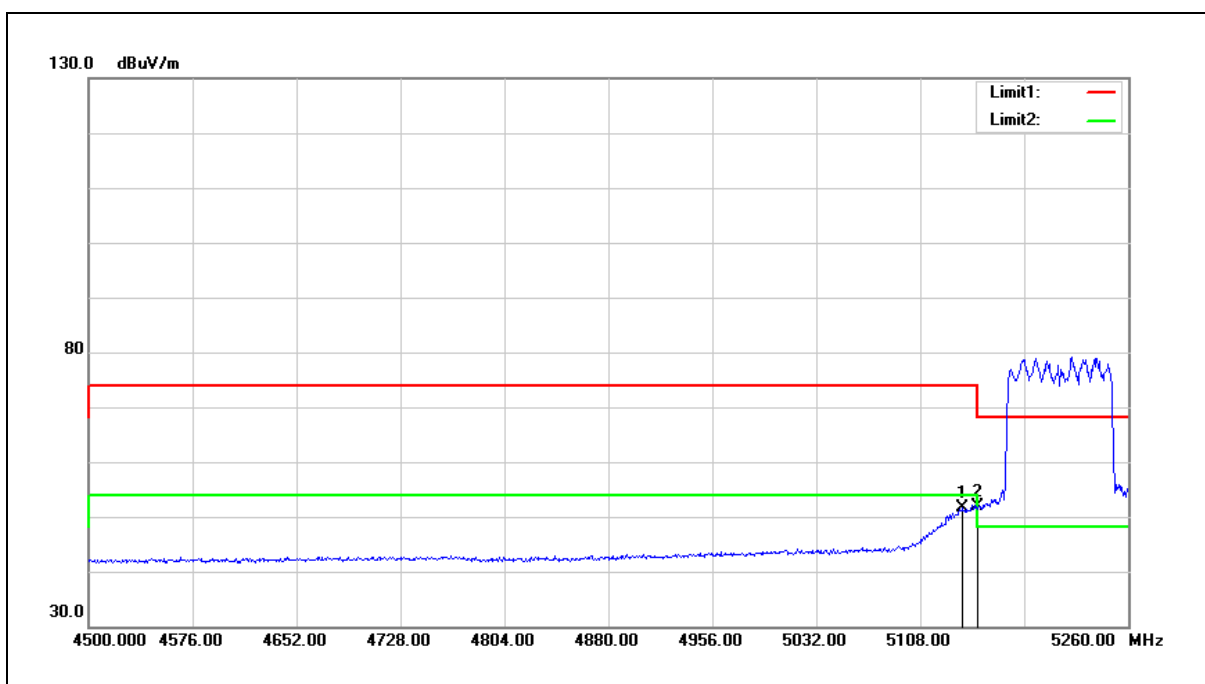
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5031.840	39.49	4.64	44.13	54.00	-9.87	AVG
2	5150.000	38.83	4.80	43.63	54.00	-10.37	AVG
3	5350.000	38.11	5.08	43.19	54.00	-10.81	AVG
4	5411.040	38.62	5.16	43.78	54.00	-10.22	AVG

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		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



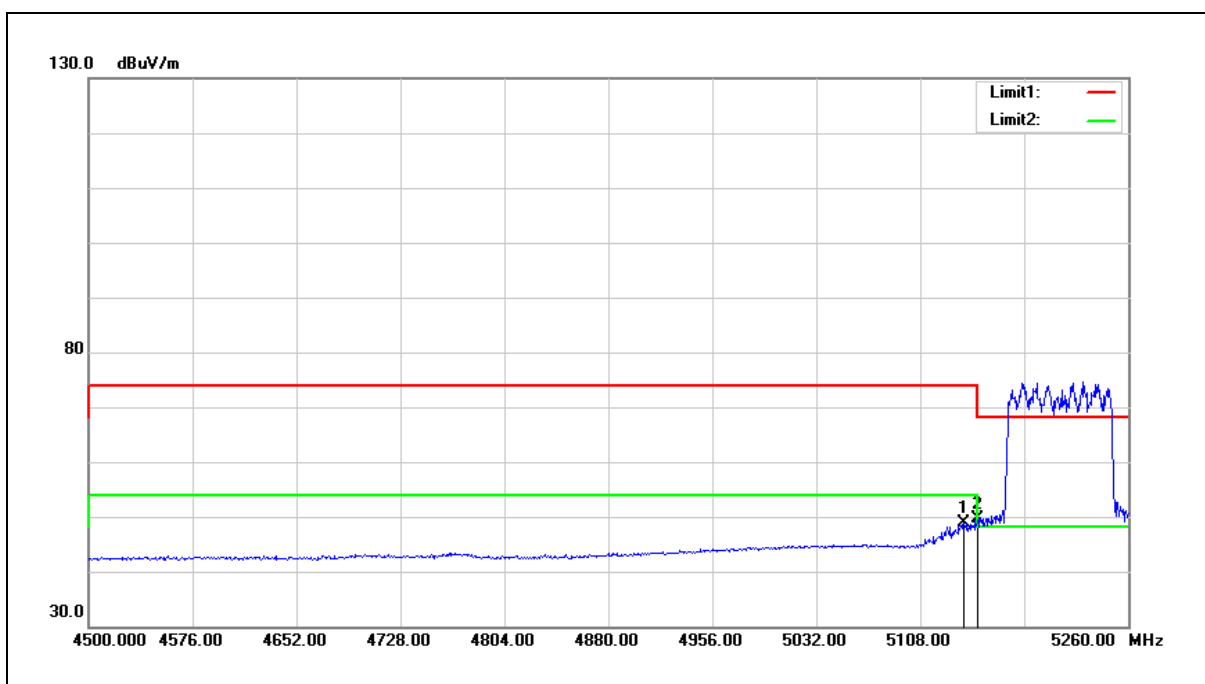
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.160	46.96	4.79	51.75	54.00	-2.25	AVG
2	5150.000	47.12	4.80	51.92	54.00	-2.08	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.920	44.13	4.79	48.92	54.00	-5.08	AVG
2	5150.000	44.93	4.80	49.73	54.00	-4.27	AVG

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

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

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

5.3 Conducted Test Results

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	5.360	5.880	0.912	0.402	0.187
Mode 5	5180	4.960	5.500	0.902	0.449	0.202
Mode 6	5190	3.600	4.140	0.870	0.607	0.278
Mode 7	5210	3.340	3.860	0.865	0.628	0.299

Duty Cycle Graphs

Mode 2: IEEE 802.11a Continuous TX mode

On+off time



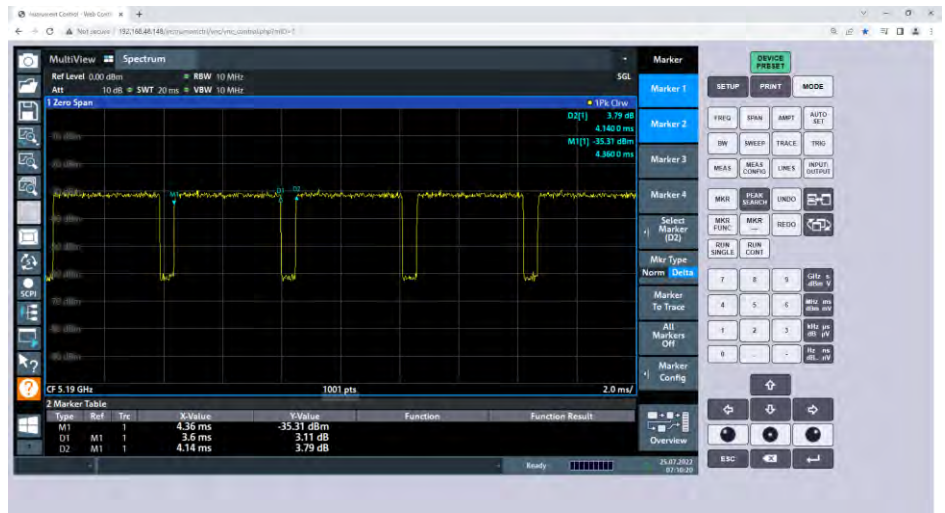
Mode 5: IEEE 802.11ac 20 MHz Continuous TX mode

On+off time



Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode

On+off time



Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode

On+off time



Maximum Conducted Output Power Measurement

Test Mode	Frequency (MHz)	RF Power setting in Test Software	Test Software Version
		ANT-0	
Mode 2	5180	42.00	REALTEK 11ac 8821C USB WLAN MP / 0.0003.02.20171213
	5200	42.00	
	5220	42.00	
	5240	42.00	
	5745	46.00	
	5785	45.00	
	5825	48.00	
Mode 3	5180	42.00	
	5200	42.00	
	5220	42.00	
	5240	42.00	
	5745	46.00	
	5785	45.00	
	5825	48.00	
Mode 4	5190	42.00	
	5230	42.00	
	5755	46.00	
	5795	47.00	
Mode 5	5180	42.00	
	5200	42.00	
	5220	42.00	
	5240	42.00	
	5745	46.00	
	5785	45.00	
	5825	48.00	
Mode 6	5190	42.00	
	5230	42.00	
	5755	46.00	
	5795	47.00	
Mode 7	5210	43.00	
	5775	47.00	

Test Mode	Data Rate	Frequency (MHz)	ANT-0		Limit (dBm)
			(dBm)	(W)	
Mode 2	6 M	5180	14.22	0.026	≤ 24.00
		5200	14.39	0.027	≤ 24.00
		5240	14.20	0.026	≤ 24.00
		5745	14.17	0.026	≤ 30.00
		5785	14.31	0.027	≤ 30.00
		5825	14.06	0.025	≤ 30.00
Mode 3	6.5 M	5180	14.14	0.026	≤ 24.00
		5200	14.27	0.027	≤ 24.00
		5240	14.10	0.026	≤ 24.00
		5745	14.13	0.026	≤ 30.00
		5785	14.10	0.026	≤ 30.00
		5825	14.04	0.025	≤ 30.00
Mode 4	13.5 M	5190	14.39	0.027	≤ 24.00
		5230	14.30	0.027	≤ 24.00
		5755	14.31	0.027	≤ 30.00
		5795	14.40	0.028	≤ 30.00
Mode 5	6.5 M	5180	14.21	0.026	≤ 24.00
		5200	14.34	0.027	≤ 24.00
		5240	14.13	0.026	≤ 24.00
		5745	14.23	0.026	≤ 30.00
		5785	14.18	0.026	≤ 30.00
		5825	14.15	0.026	≤ 30.00
Mode 6	13.5 M	5190	14.44	0.028	≤ 24.00
		5230	14.35	0.027	≤ 24.00
		5755	14.40	0.028	≤ 30.00
		5795	14.46	0.028	≤ 30.00
Mode 7	29.3 M	5210	14.32	0.027	≤ 24.00
		5775	14.42	0.028	≤ 30.00

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

Maximum Power Spectral Density Measurement

Power spectral density					
Test Mode	Frequency (MHz)	ANT-0			
		Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
Mode 2	5180	5.293	0.402	5.695	≤ 11.00
	5200	5.654	0.402	6.056	≤ 11.00
	5240	5.845	0.402	6.247	≤ 11.00
Mode 5	5180	5.101	0.449	5.550	≤ 11.00
	5200	5.559	0.449	6.008	≤ 11.00
	5240	5.578	0.449	6.027	≤ 11.00
Mode 6	5190	2.293	0.607	2.900	≤ 11.00
	5230	2.312	0.607	2.919	≤ 11.00
Mode 7	5210	0.225	0.628	0.853	≤ 11.00

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

Power spectral density			
Test Mode	Frequency (MHz)	ANT-0	
		Measurement (dBm/500 kHz)	Limit (dBm/500 kHz)
Mode 2	5745	2.288	≤ 30.00
	5785	2.363	≤ 30.00
	5825	2.047	≤ 30.00
Mode 5	5745	1.481	≤ 30.00
	5785	2.067	≤ 30.00
	5825	2.003	≤ 30.00
Mode 6	5755	-0.976	≤ 30.00
	5795	-0.755	≤ 30.00
Mode 7	5775	-3.074	≤ 30.00

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