

RF Test Report

Applicant : Mako Networks
Product Type : 11ax 2x2 WiFi AP with LTE connectivity
Trade Name : Mako Networks
Model Number : 5600, 5600-5G, 5600-LTE US
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Received Date : May. 17, 2021
Test Period : May. 28 ~ Jul. 30, 2021
Issued Date : Aug. 19, 2021

Issued by

A Test Lab Techno Corp.
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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	Aug. 19, 2021	Initial Issue	Emma Chao

Verification of Compliance

Applicant : Mako Networks

Product Type : 11ax 2x2 WiFi AP with LTE connectivity

Trade Name : Mako Networks

Model Number : 5600, 5600-5G, 5600-LTE US

FCC ID : 2AVQL-5600

EUT Rated Voltage : DC 12 V, 5 A / DC 54 V, 1.11 A

Test Voltage : 120 Vac / 60 Hz

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

Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330
<http://www.atl-lab.com.tw/e-index.htm>



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

Approved By : Ken Yang
(Manager) (Ken Yang)

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1 General Information

1.1. Summary of Test Result

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

Decision Rule

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

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

1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
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	5.1 dB
	18000 MHz ~ 26500 MHz	4.4 dB
	26500 MHz ~ 40000 MHz	4.6 dB
Conducted Output Power	1.1 dB	
RF Bandwidth	4.7 %	
Power Spectral Density	1.1 dB	



2 EUT Description

Applicant	Mako Networks 1355 N. McLean Blvd, Elgin, Illinois 60123, United States	
Manufacturer	Mako Networks 1355 N. McLean Blvd, Elgin, Illinois 60123, United States	
Product Type	11ax 2x2 WiFi AP with LTE connectivity	
Trade Name	Mako Networks	
Model No.	5600, 5600-5G, 5600-LTE US	
Difference description of model number	Because marketing purpose the difference between 5600 and 5600-5G and 5600-LTE US is WWAN module different.	
FCC ID	2AVQL-5600	
Frequency Range	2402 ~ 2480 MHz	
Modulation Type	GFSK	
Operate Temp. Range	0 ~ +40 °C	
Antenna information	Type	Max. Gain (dBi)
	PIFA Antenna	3.64
RF Output Power	LE, GFSK: 0.00649 W	
	2LE, GFSK: 0.00644 W	
	BLR C2, GFSK: 0.00638 W	
	BLR C8, GFSK: 0.00640 W	

3 Test Methodology

3.1. Mode of Operation

In the test report use EUT model: 5600-5G to operate testing.

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: LE, GFSK Continuous TX Mode
Mode 3: 2LE, GFSK Continuous TX Mode
Mode 4: BLR C2, GFSK Continuous TX Mode
Mode 5: BLR C8, GFSK Continuous TX Mode

Final-Test Mode
Mode 1: Transmit Mode
Mode 2: LE, GFSK Continuous TX Mode
Mode 3: 2LE, GFSK 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) 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: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %.

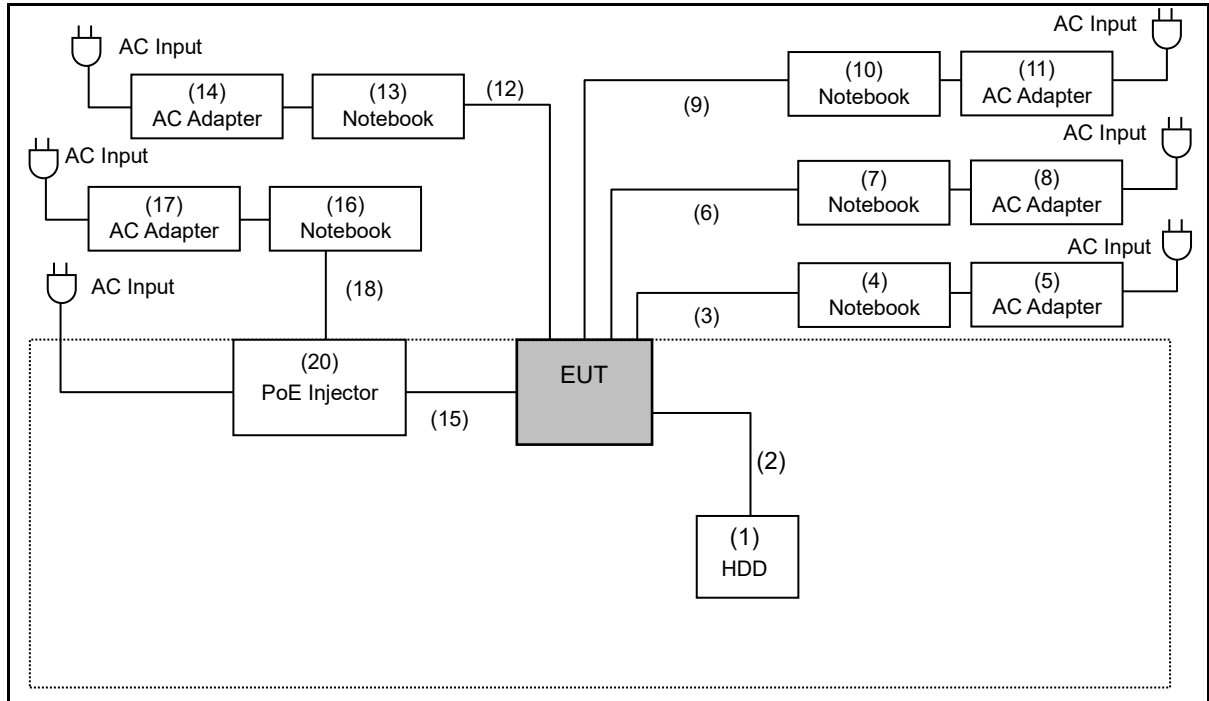
3.2. EUT Test Step

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

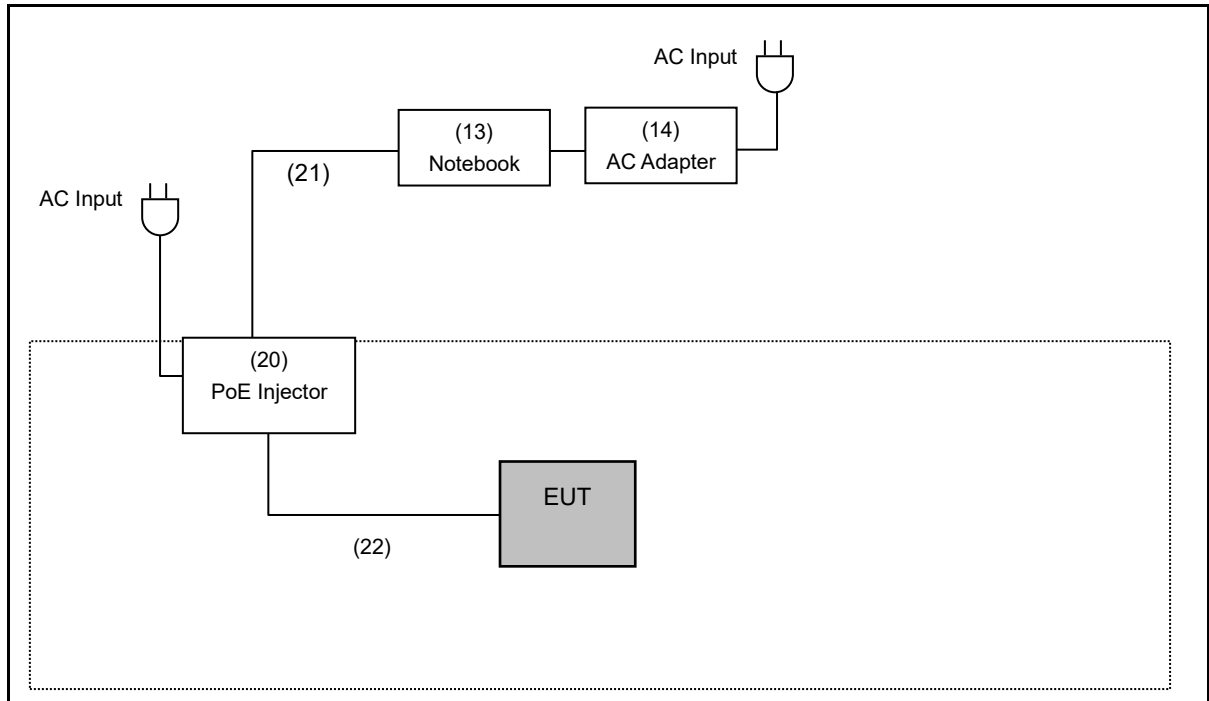
Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

3.3. Configuration of Test System Details

Conducted Emission



Radiated Emissions



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	HDD	Transend	TS1TSJ25A3K-RU	D72654-0611	---
(2)	USB Cable	Transend	TS1TSJ25A3K-RU	D72654-0611	---
(3)	LAN Cable	Huawei	UL2464	---	---
(4)	Notebook	ASUS	P2430U	---	---
(5)	AC Adapter	ASUS	ADP-65GD D	---	Non-Shielded, 0.8 m
(6)	LAN Cable	Huawei	UL2464	---	---
(7)	Notebook	ASUS	P1448U	---	---
(8)	AC Adapter	ASUS	PA-1650-78	---	Non-Shielded, 0.8 m
(9)	LAN Cable	Huawei	UL2464	---	---
(10)	Notebook	ASUS	P1448U	---	---
(11)	AC Adapter	ASUS	PA-1650-78	---	Non-Shielded, 0.8 m
(12)	LAN Cable	Huawei	UL2464	---	---
(13)	Notebook	Acer	N19C1	---	---
(14)	AC Adapter	chiicony	A18-045N2A	---	Non-Shielded, 0.8 m
(15)	LAN Cable	ATL	EMC	---	---
(16)	Notebook	Acer	N19C1	---	---
(17)	AC Adapter	chiicony	A18-045N2A	---	Non-Shielded, 0.8 m
(18)	LAN Cable	Huawei	UL2464	---	---
(19)	AC Adapter	Sunny	SYS1649-6012-T2	---	Non-Shielded, 1.7 m
(20)	PoE Injector	EnGenius	PNA60BGS-54	---	Non-Shielded, 0.5 m
(21)	LAN Cable	Tatung	CAT5E	---	---
(22)	LAN Cable	Tatung	CAT5E	---	---



3.4. Test Instruments

For Conducted Emission

Test Period: May. 29 ~ Jul. 30, 2021

Testing Engineer: Louis Shen

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/21/2021	1 year
LISN	R&S	ENV216	101040	03/29/2021	1 year
LISN	R&S	ENV216	101041	04/08/2021	1 year
RF Cable	Woken	00100D1380194M	TE-02-03	04/08/2021	1 year

For Radiated Emissions

Test Period: Jun. 02 ~ Jul. 30, 2021

Testing Engineer: Pink.Li, Ida.Chuang, Marc.Yeh

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (2 Hz~50 GHz)	KEYSIGHT	N9030B	MY57143537	04/19/2021	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	01/15/2021	1 year
Pre Amplifier (1~26.5 GHz)	Titan	T0912E01263025A1F	002	07/23/2020 07/26/2021	1 year
Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02237	10/21/2020	1 year
Broadband Antenna	Schwarzbeck	VULB9168	01146	07/03/2020 07/19/2021	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	02207	06/30/2020 07/09/2021	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	04/07/2021	1 year
Coaxial Cable	Titan	T0710AT327A10A100	J11005	08/13/2020	1 year
Coaxial Cable	Titan	T0710AT327A10A900	J11004	08/13/2020	1 year

For Conducted

Test Period: May. 28, 2021

Testing Engineer: Peter shui, Willie Luo

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Power Sensor	Agilent	N1921A	MY45241957	12/09/2020	1 year
Power Meter	Agilent	N1911A	MY45101619	12/09/2020	1 year
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/24/2020	1 year

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



3.5. Test Site Environment

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

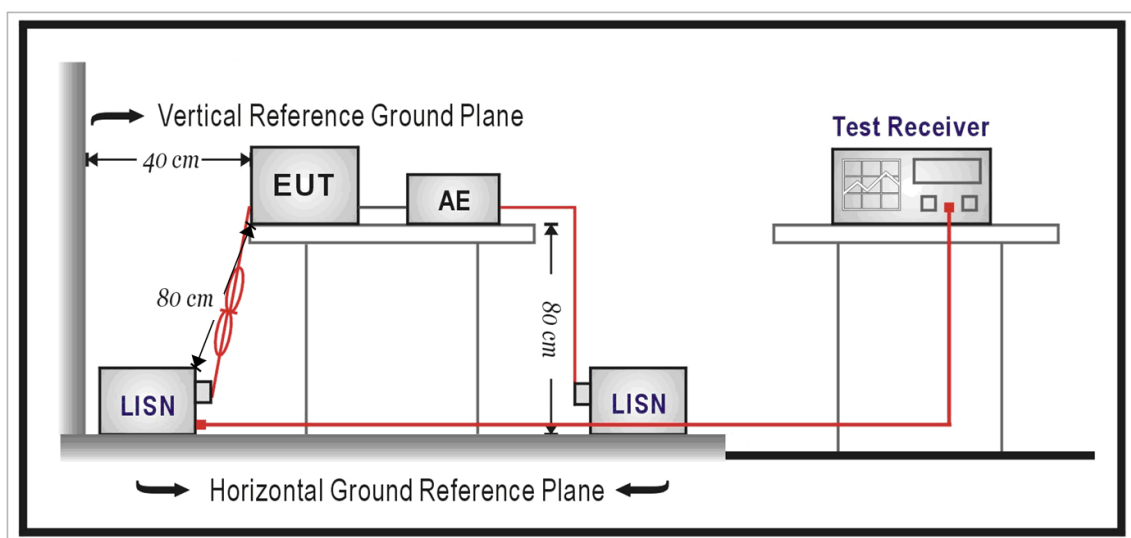
4 Measurement Procedure

4.1. AC Power Line Conducted Emission Measurement

■ Limit

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

■ Test Setup



■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a $50\ \Omega$ // $50\ \mu\text{H}$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50\ \Omega$ // $50\ \mu\text{H}$ coupling impedance with $50\ \Omega$ 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 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 $50\ \Omega$ ports of the LISN shall be resistively terminated into $50\ \Omega$ loads when not connected to the measuring instrument.

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

4.2. Radiated Emission Measurement

■ Limit

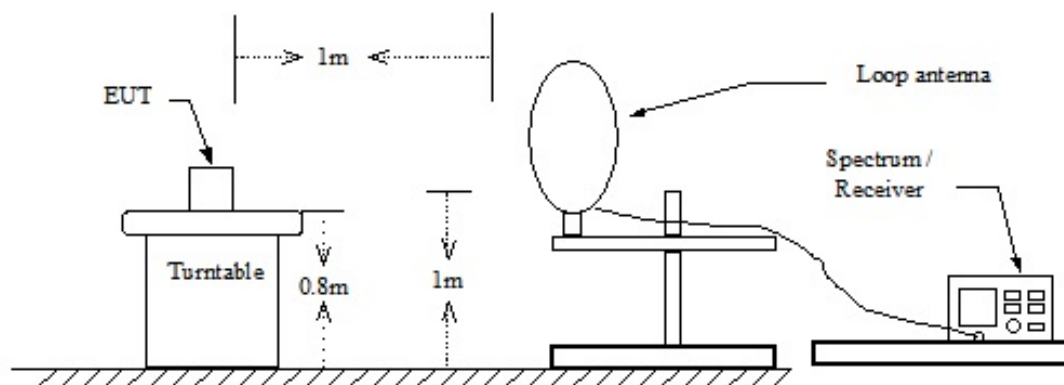
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

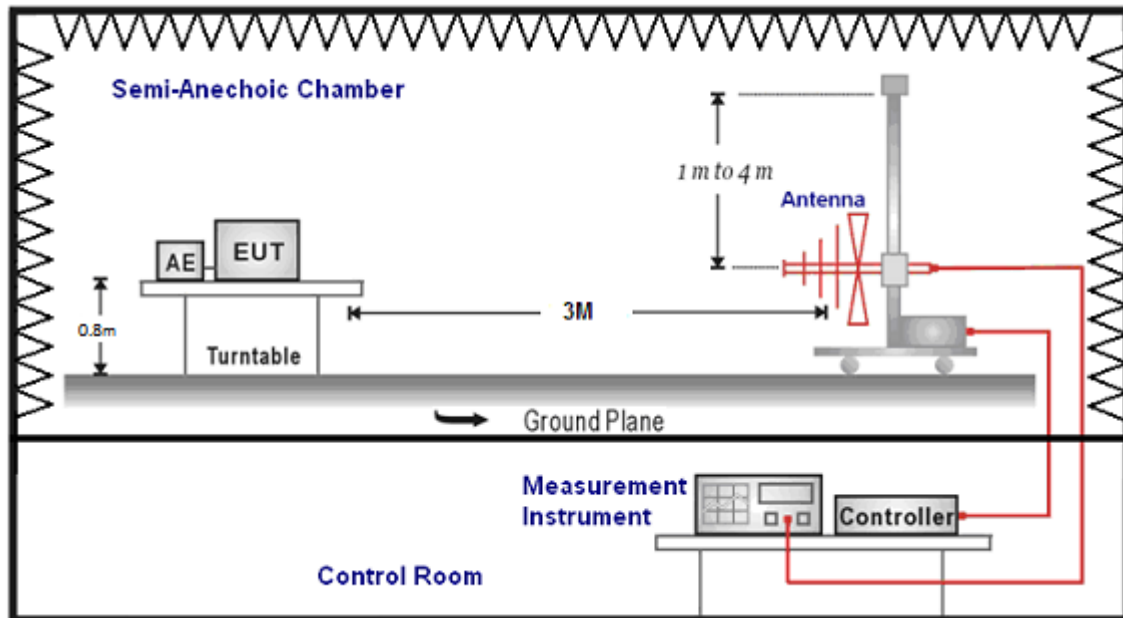
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

■ Setup

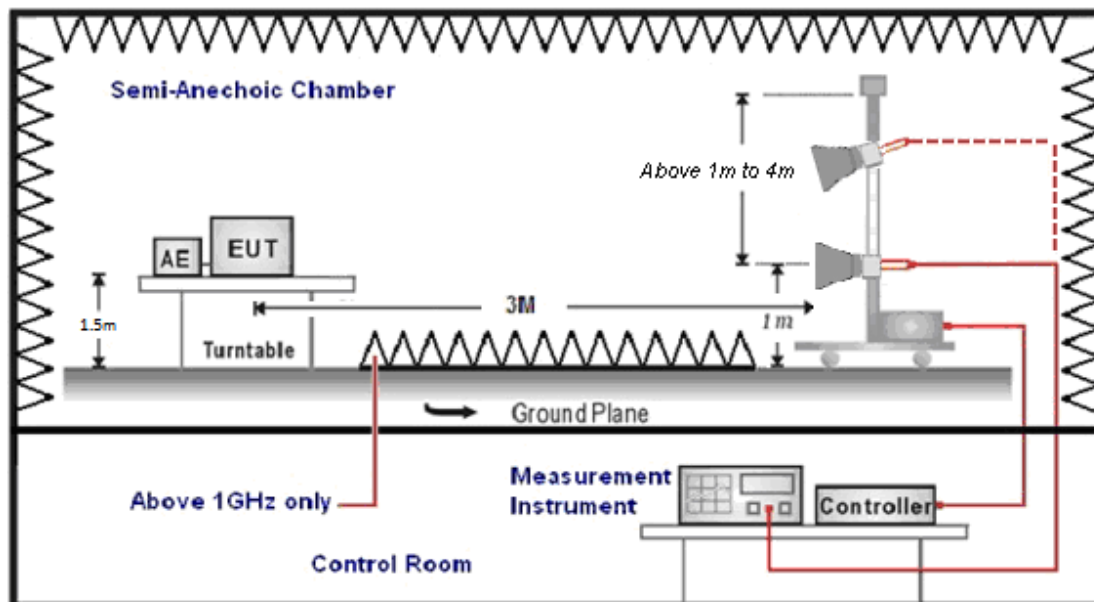
9 kHz ~ 30 MHz



Below 1 GHz



Above 1 GHz



■ Test Procedure

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

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

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

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

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

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

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

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

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

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

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

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

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

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

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

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

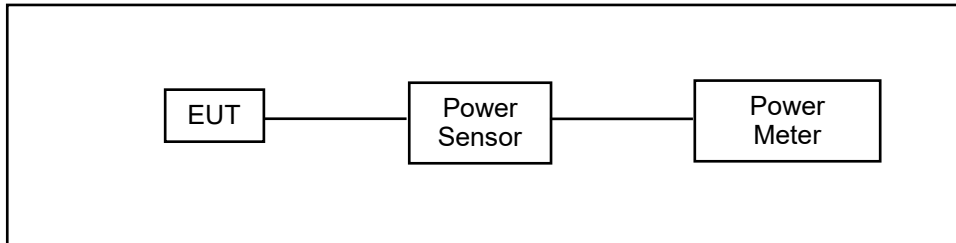
Data of measurement within this frequency range without mark in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

4.3. Maximum Conducted Output Power Measurement

■ Limit

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

■ Test Setup



■ Test Procedure

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

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

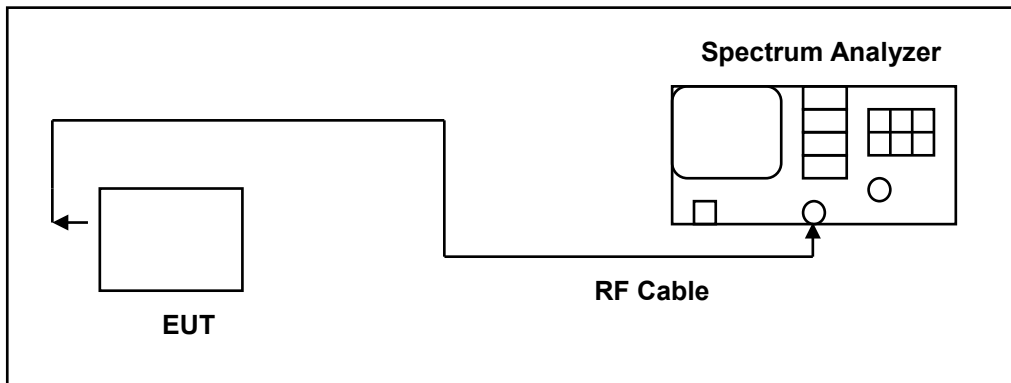
4.4. 6 dB RF Bandwidth Measurement

■ Limit

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

99 % Occupied Bandwidth: N/A

■ Test Setup



■ Test Procedure

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

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

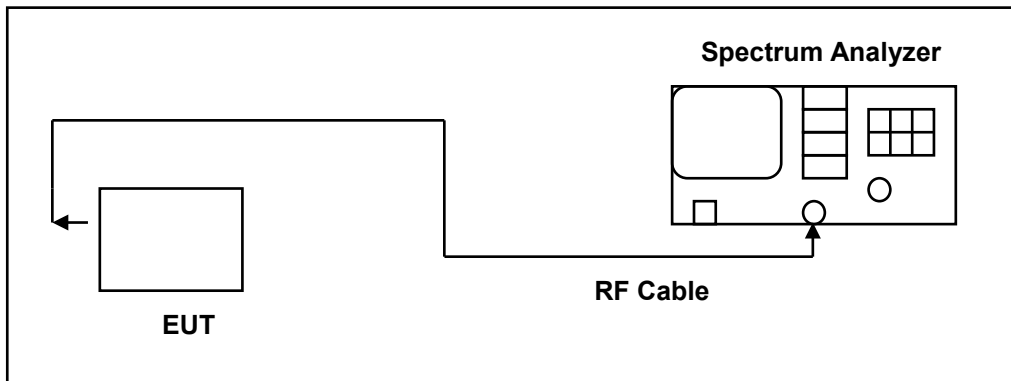
The test was performed at 3 channels (Channel low, middle, high)

4.5. Maximum Power Density Measurement

■ Limit

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

■ Test Setup



■ Test Procedure

The EUT tested to DTS test procedure of ANSI C63.10:2013 section 11.10.2 Method PKPSD.

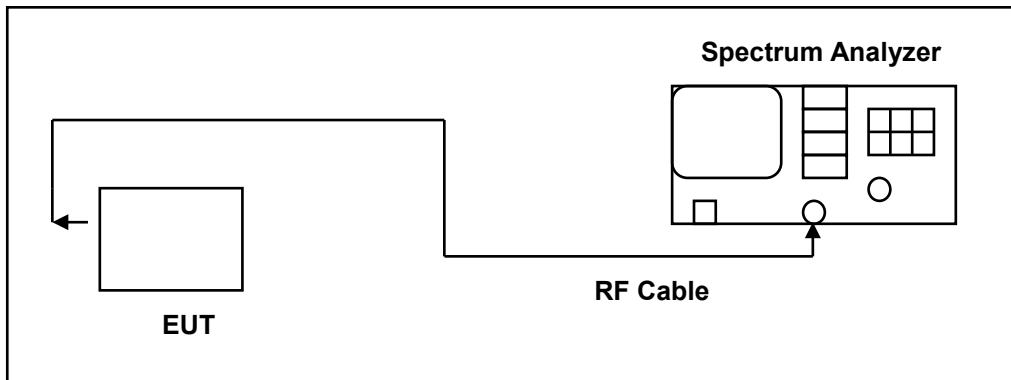
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.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

4.6. Out of Band Conducted Emissions Measurement

■ Limit

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

■ Test Setup



■ Test Procedure

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

4.7. Antenna Measurement

■ Limit

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

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

■ Antenna Connector Construction

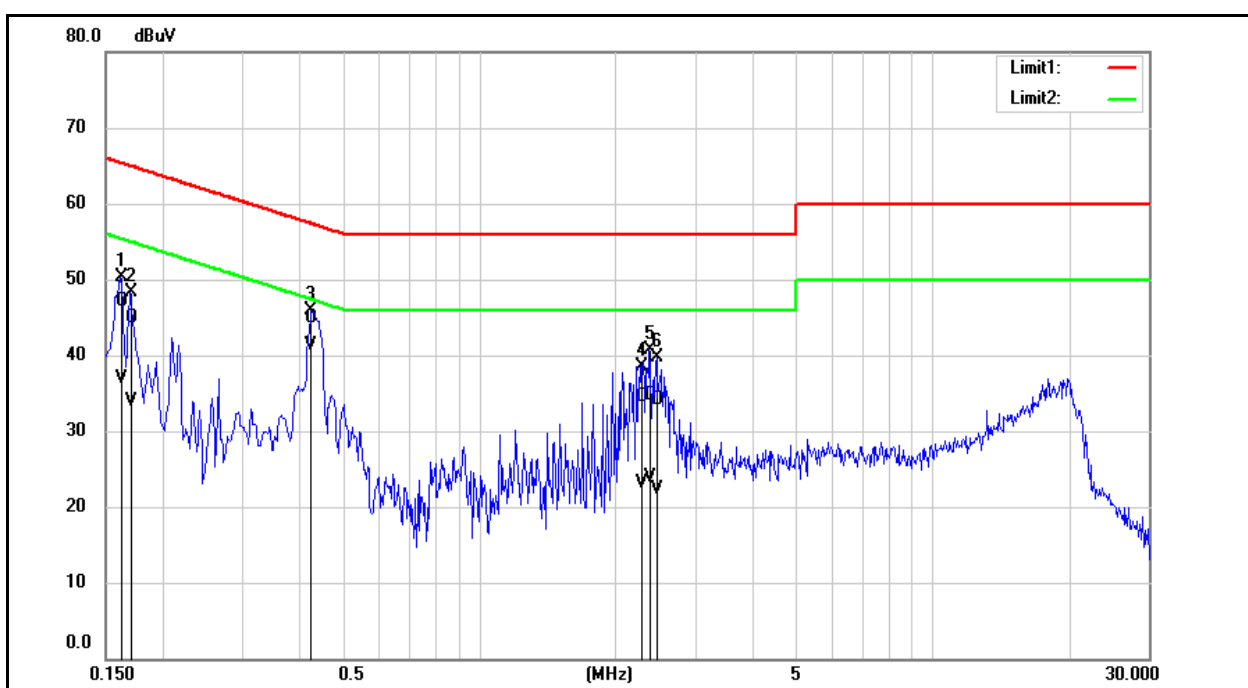
See section 2 – antenna information.

5 Test Results

Annex A. Conducted Emission

5600-5G

Standard:	FCC Part 15.247	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1		
Description:			

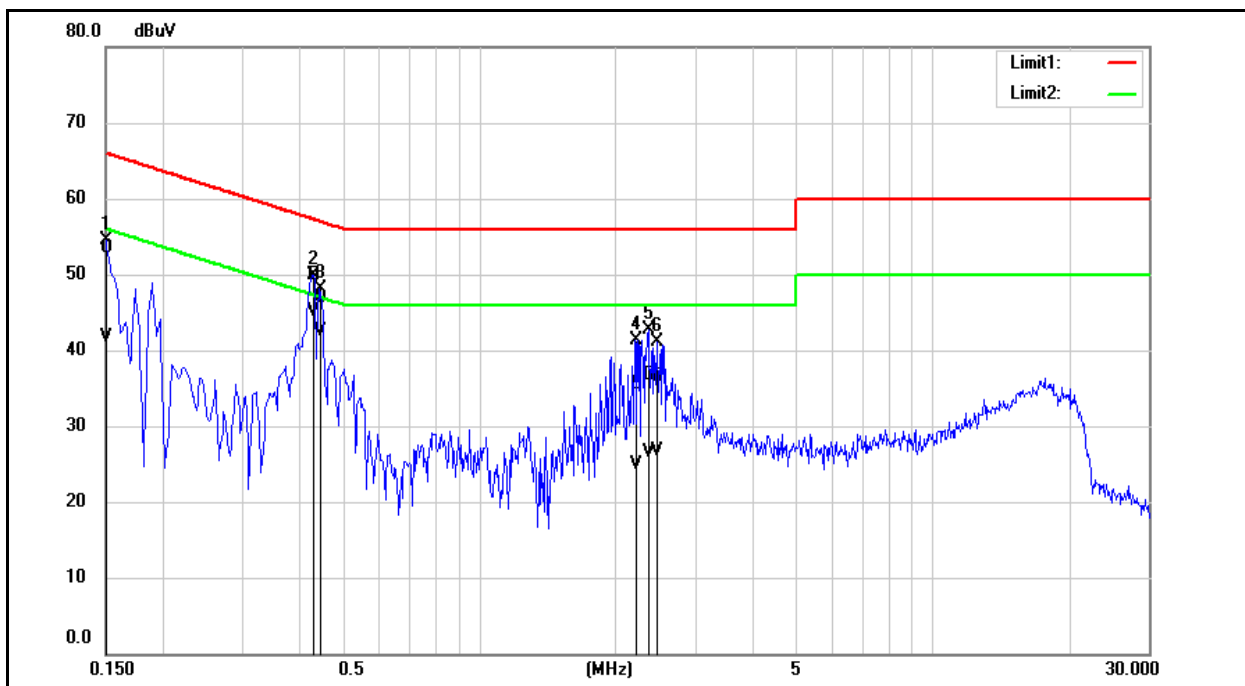


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1620	37.32	27.22	9.72	47.04	36.94	65.36	55.36	-18.32	-18.42	Pass
2	0.1700	35.28	24.28	9.72	45.00	34.00	64.96	54.96	-19.96	-20.96	Pass
3	0.4260	35.24	31.52	9.71	44.95	41.23	57.33	47.33	-12.38	-6.10	Pass
4	2.2740	24.75	13.23	9.78	34.53	23.01	56.00	46.00	-21.47	-22.99	Pass
5	2.3740	24.94	14.18	9.79	34.73	23.97	56.00	46.00	-21.27	-22.03	Pass
6	2.4660	24.23	12.60	9.79	34.02	22.39	56.00	46.00	-21.98	-23.61	Pass

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

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

Standard:	FCC Part 15.247	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1		
Description:			

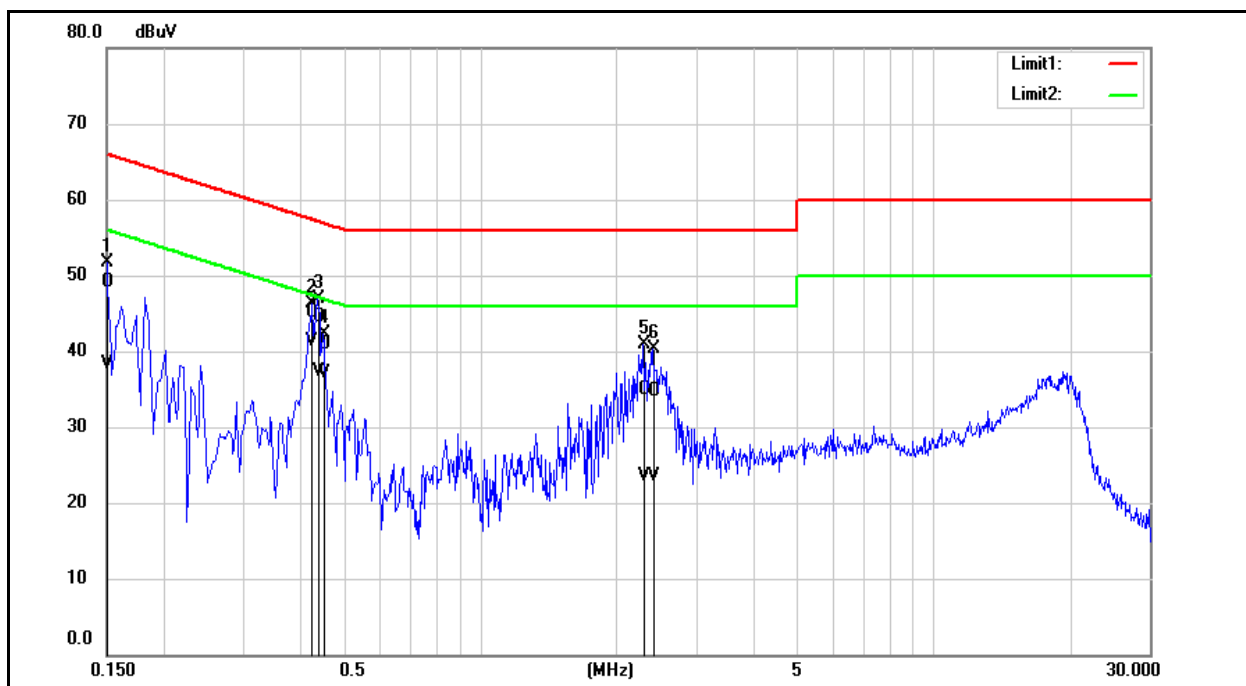


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	43.74	31.98	9.71	53.45	41.69	66.00	56.00	-12.55	-14.31	Pass
2	0.4300	40.13	35.43	9.70	49.83	45.13	57.25	47.25	-7.42	-2.12	Pass
3	0.4460	37.19	32.78	9.70	46.89	42.48	56.95	46.95	-10.06	-4.47	Pass
4	2.2060	25.72	15.20	9.76	35.48	24.96	56.00	46.00	-20.52	-21.04	Pass
5	2.3660	26.87	16.80	9.77	36.64	26.57	56.00	46.00	-19.36	-19.43	Pass
6	2.4700	26.64	16.98	9.77	36.41	26.75	56.00	46.00	-19.59	-19.25	Pass

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

5600-LTE US

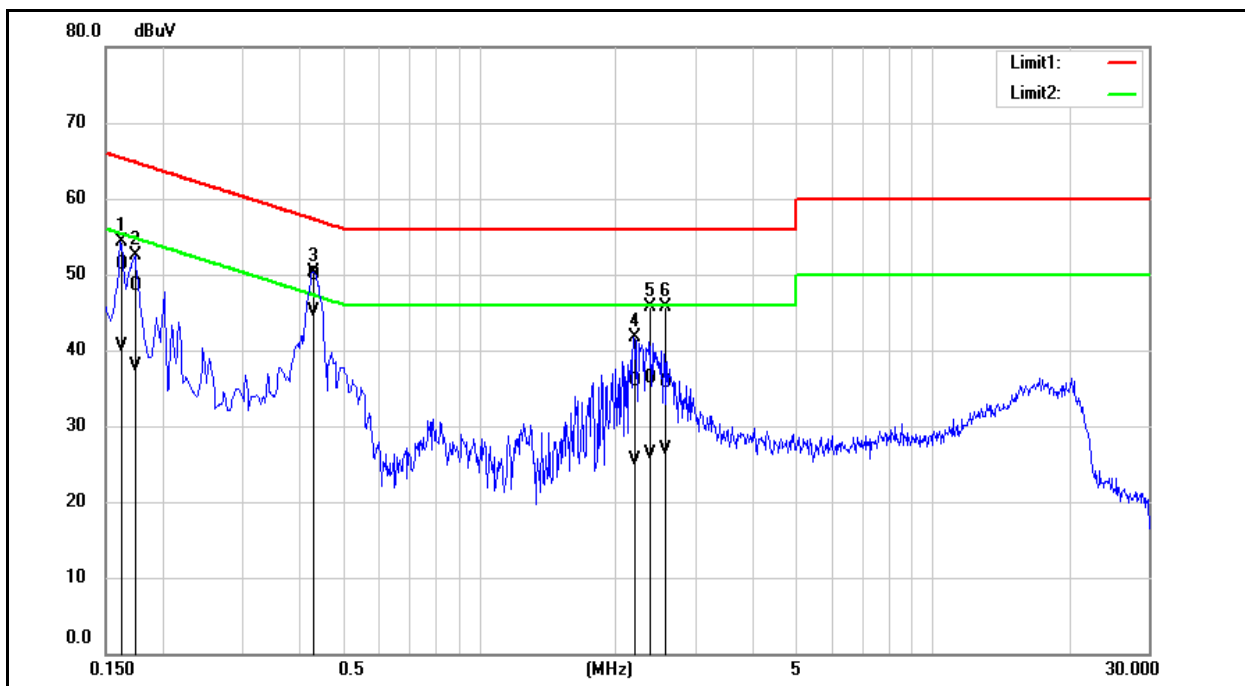
Standard:	FCC Part 15.247	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1		
Description:			



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	0.1500	39.47	28.65	9.72	49.19	38.37	66.00	56.00	-16.81	-17.63	Pass
2	0.4260	35.42	31.69	9.71	45.13	41.40	57.33	47.33	-12.20	-5.93	Pass
3	0.4380	34.85	27.56	9.71	44.56	37.27	57.10	47.10	-12.54	-9.83	Pass
4	0.4500	31.13	27.38	9.71	40.84	37.09	56.88	46.88	-16.04	-9.79	Pass
5	2.2940	25.06	13.74	9.78	34.84	23.52	56.00	46.00	-21.16	-22.48	Pass
6	2.4020	24.94	13.77	9.79	34.73	23.56	56.00	46.00	-21.27	-22.44	Pass

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

Standard:	FCC Part 15.247	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1		
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	41.66	30.84	9.71	51.37	40.55	65.36	55.36	-13.99	-14.81	Pass
2	0.1740	38.70	28.17	9.71	48.41	37.88	64.77	54.77	-16.36	-16.89	Pass
3	0.4300	40.16	35.37	9.70	49.86	45.07	57.25	47.25	-7.39	-2.18	Pass
4	2.1980	26.10	15.66	9.76	35.86	25.42	56.00	46.00	-20.14	-20.58	Pass
5	2.3740	26.45	16.55	9.77	36.22	26.32	56.00	46.00	-19.78	-19.68	Pass
6	2.5580	25.94	17.05	9.77	35.71	26.82	56.00	46.00	-20.29	-19.18	Pass

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

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

Annex B. Conducted Test Results

Maximum Conducted Output Power Measurement

Test Mode	Mode 2				
Frequency (MHz)	Average Power		Peak Power		Limit (dBm)
	(dBm)	(W)	(dBm)	(W)	
2402	7.42	0.00552	7.68	0.00586	≤ 30
2440	7.59	0.00574	7.98	0.00628	≤ 30
2480	7.70	0.00589	8.12	0.00649	≤ 30

Test Mode	Mode 3				
Frequency (MHz)	Average Power		Peak Power		Limit (dBm)
	(dBm)	(W)	(dBm)	(W)	
2402	7.41	0.00551	7.67	0.00585	≤ 30
2440	7.58	0.00573	7.97	0.00627	≤ 30
2480	7.69	0.00587	8.09	0.00644	≤ 30

Test Mode	Mode 4				
Frequency (MHz)	Average Power		Peak Power		Limit (dBm)
	(dBm)	(W)	(dBm)	(W)	
2402	7.40	0.00550	7.66	0.00583	≤ 30
2440	7.57	0.00571	7.89	0.00615	≤ 30
2480	7.68	0.00586	8.05	0.00638	≤ 30

Test Mode	Mode 5				
Frequency (MHz)	Average Power		Peak Power		Limit (dBm)
	(dBm)	(W)	(dBm)	(W)	
2402	7.39	0.00548	7.65	0.00582	≤ 30
2440	7.56	0.00570	7.93	0.00621	≤ 30
2480	7.67	0.00585	8.06	0.00640	≤ 30

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



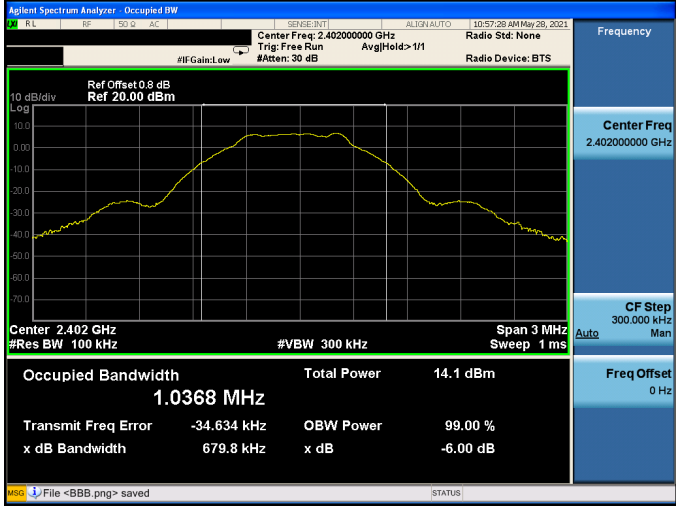
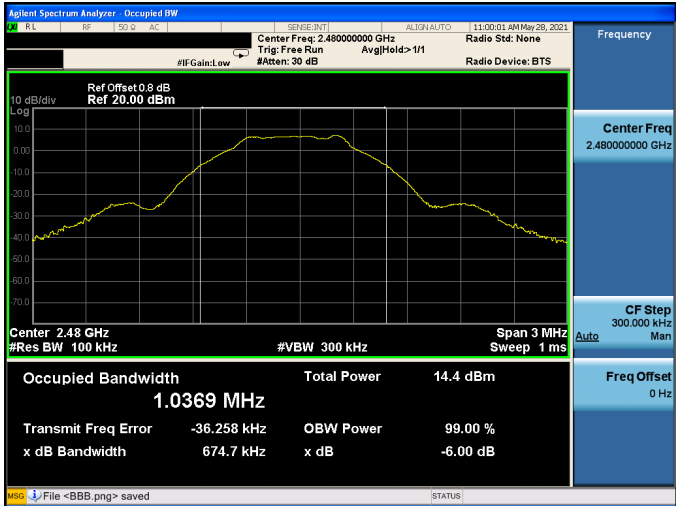
6 dB RF Bandwidth Measurement

Test Mode	Mode 2	
Frequency (MHz)	Measurement Results (kHz)	Limit (kHz)
2402	679.800	≥ 500
2440	676.700	≥ 500
2480	674.700	≥ 500

Test Mode	Mode 3	
Frequency (MHz)	Measurement Results (kHz)	Limit (kHz)
2402	1375.000	≥ 500
2440	1373.000	≥ 500
2480	1370.000	≥ 500



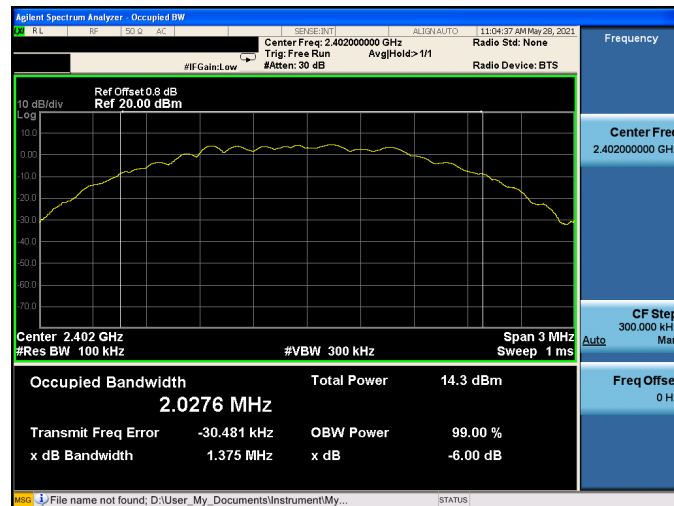
■ Test Graphs

Mode 2	
2402 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.40200000 GHz Span: 3 MHz Res BW: 100 kHz VBW: 300 kHz Sweep: 1 ms Occupied Bandwidth: 1.0368 MHz Total Power: 14.1 dBm Transmit Freq Error: -34.634 kHz OBW Power: 99.00 %
2440 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.44000000 GHz Span: 3 MHz Res BW: 100 kHz VBW: 300 kHz Sweep: 1 ms Occupied Bandwidth: 1.0355 MHz Total Power: 14.2 dBm Transmit Freq Error: -34.849 kHz OBW Power: 99.00 %
2480 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.48000000 GHz Span: 3 MHz Res BW: 100 kHz VBW: 300 kHz Sweep: 1 ms Occupied Bandwidth: 1.0369 MHz Total Power: 14.4 dBm Transmit Freq Error: -36.258 kHz OBW Power: 99.00 %

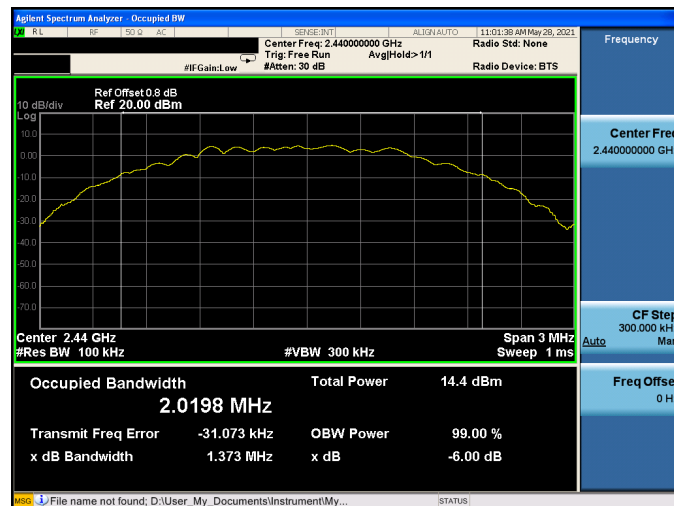


Mode 3

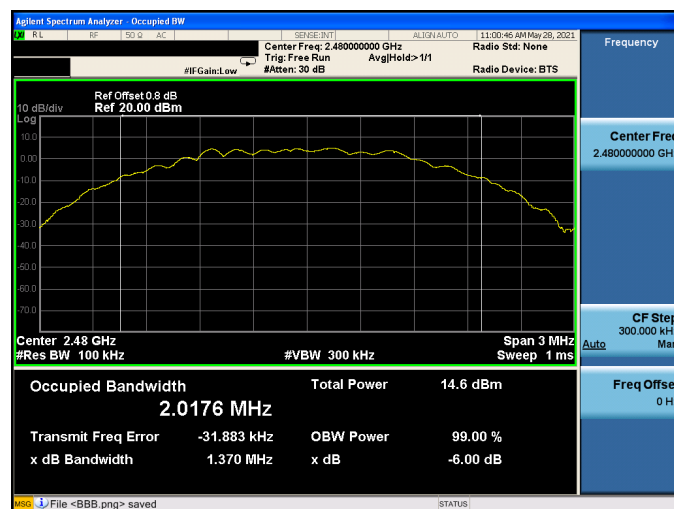
2402 MHz



2440 MHz



2480 MHz





Maximum Power Density Measurement

Test Mode	Mode 2	
Frequency (MHz)	Measurement Results (dBm/ 3kHz)	Limit (dBm)
2402	-7.719	≤ 8
2440	-7.598	≤ 8
2480	-7.289	≤ 8

Test Mode	Mode 3	
Frequency (MHz)	Measurement Results (dBm/ 3kHz)	Limit (dBm)
2402	-14.319	≤ 8
2440	-14.181	≤ 8
2480	-13.990	≤ 8



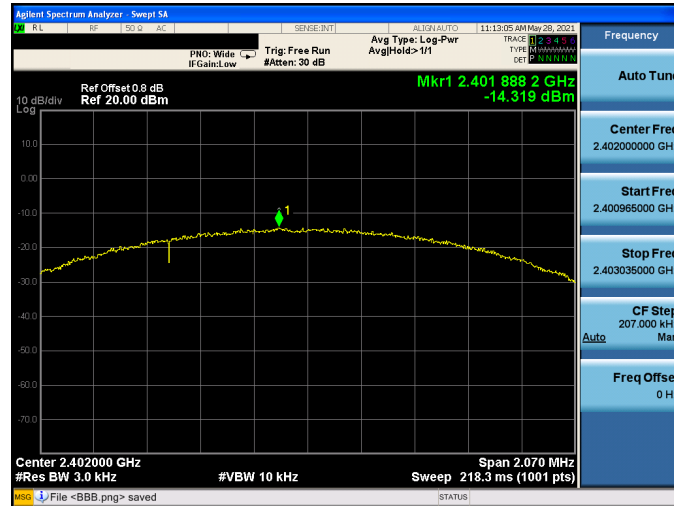
■ Test Graphs

Mode 2	
2402 MHz	
2440 MHz	
2480 MHz	

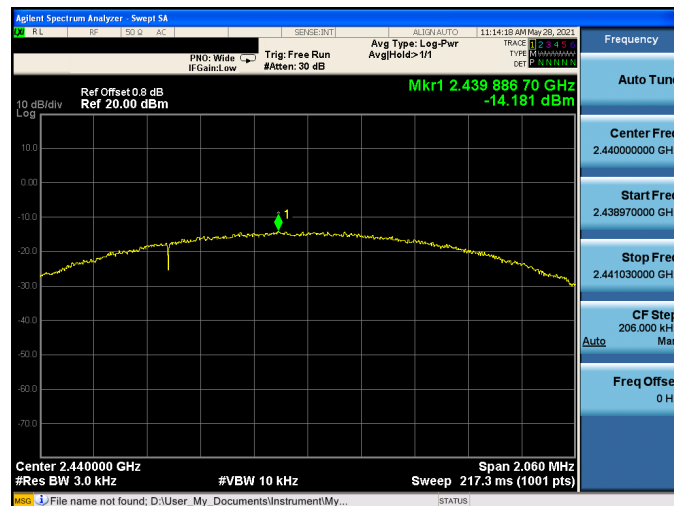


Mode 3

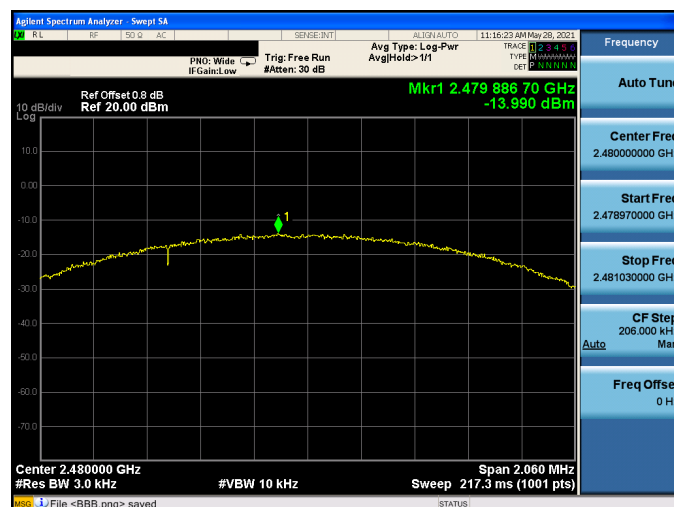
2402 MHz



2440 MHz



2480 MHz

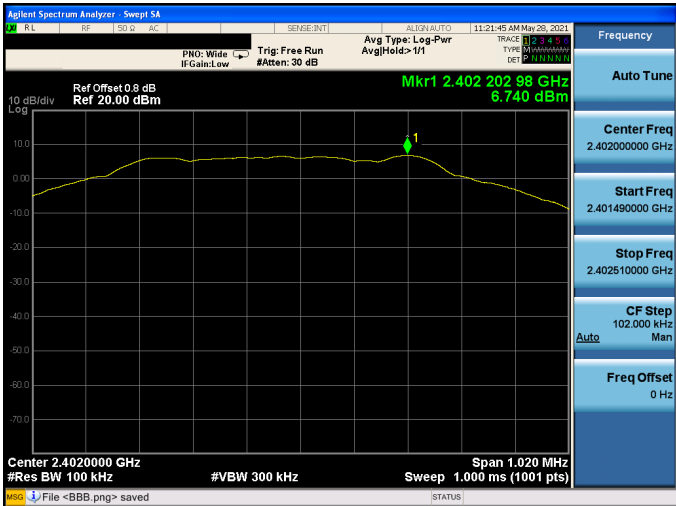
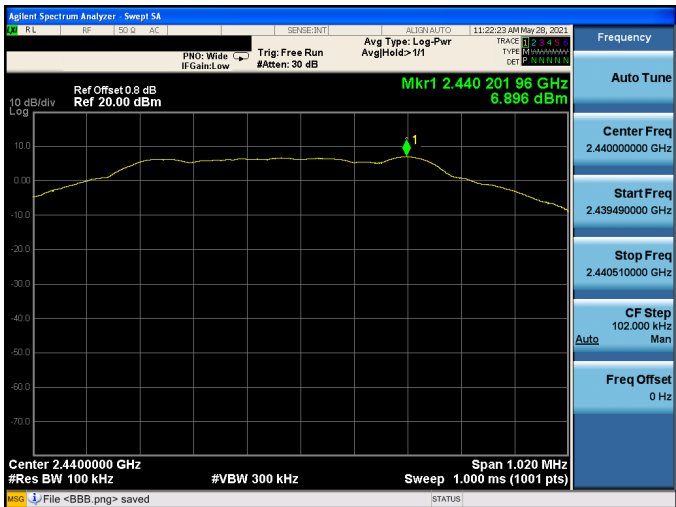
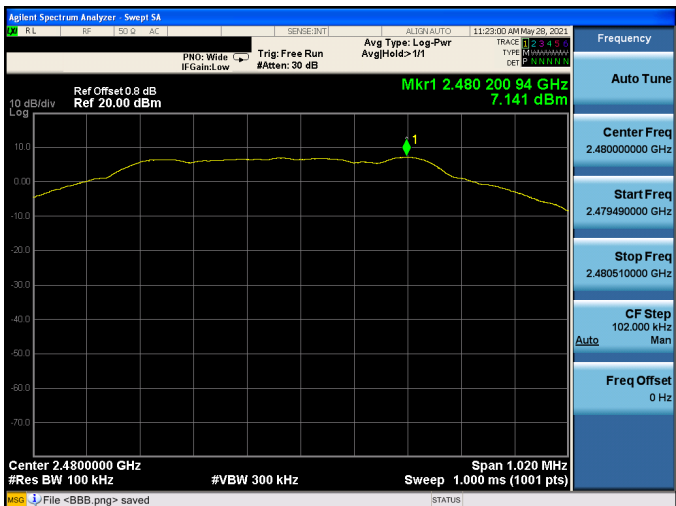




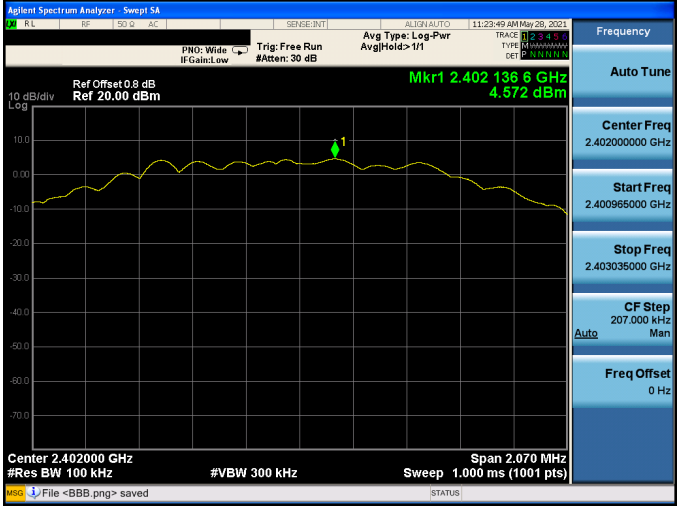
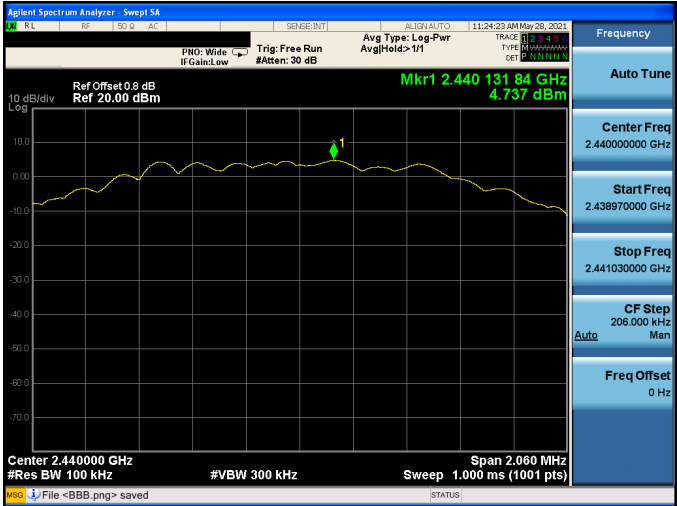
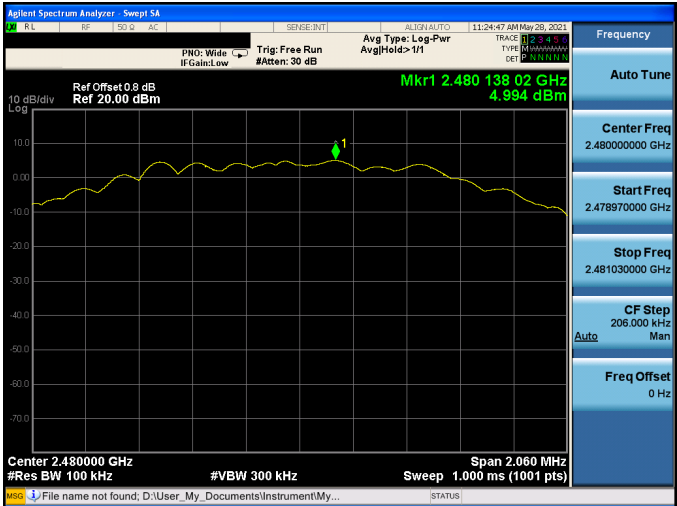
Out of Band Conducted Emissions Measurement

■ Test Graphs

Reference level

Mode 2	
2402 MHz	
2440 MHz	
2480 MHz	



Mode 3	
2402 MHz	
2440 MHz	
2480 MHz	



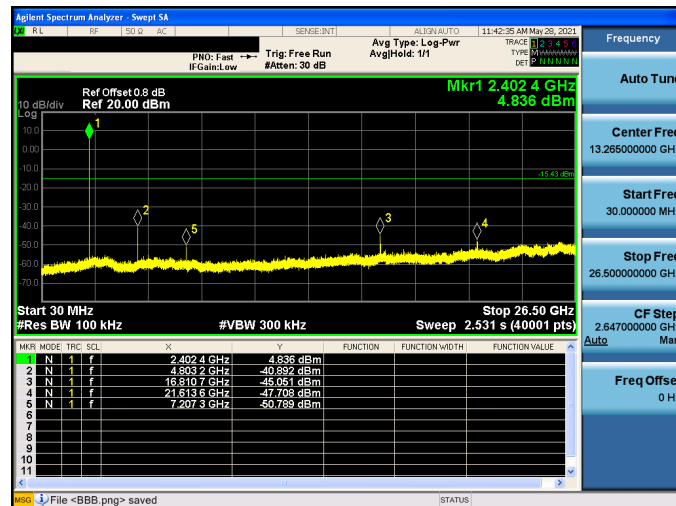
Out of Band Conducted Emissions

Mode 2																																																																																																													
2402 MHz	Agilent Spectrum Analyzer - Swept SA RL RF ISO Q AC SENSE:INT1 ALIGN:AUTO 11:33:07 AM May 26, 2021 PN0: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 1/1 TRACE 1 2 3 4 5 TYPE: BW DEF: N Ref Offset 0.8 dB Ref 20.00 dBm Mkr1 2.4017 GHz 5.098 dBm 10 dB/div Log 1 2 5 4 3 Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 2.531 s (40001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4017 GHz</td><td>5.098 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>4.8032 GHz</td><td>-39.360 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>21.619 GHz</td><td>-41.062 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>19.815 GHz</td><td>-42.510 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>7.2067 GHz</td><td>-48.696 dBm</td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> File <BBB.png> saved STATUS Frequency Auto Tune Center Freq 13.265000000 GHz Start Freq 30.000000 MHz Stop Freq 26.500000000 GHz CF Step 2.647000000 GHz Auto Man Freq Offset 0 Hz	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4017 GHz	5.098 dBm				2	N	1	f	4.8032 GHz	-39.360 dBm				3	N	1	f	21.619 GHz	-41.062 dBm				4	N	1	f	19.815 GHz	-42.510 dBm				5	N	1	f	7.2067 GHz	-48.696 dBm				6									7									8									9									10									11								
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2440 MHz	Agilent Spectrum Analyzer - Swept SA RL RF ISO Q AC SENSE:INT1 ALIGN:AUTO 11:38:52 AM May 26, 2021 PN0: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 1/1 TRACE 1 2 3 4 5 TYPE: BW DEF: N Ref Offset 0.8 dB Ref 20.00 dBm Mkr1 2.4401 GHz 5.194 dBm 10 dB/div Log 1 2 5 3 4 Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 2.531 s (40001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4401 GHz</td><td>5.194 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>4.8806 GHz</td><td>-39.430 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>17.081 GHz</td><td>-43.381 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>21.957 GHz</td><td>-44.211 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>7.3192 GHz</td><td>-49.995 dBm</td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> File <BBB.png> saved STATUS Frequency Auto Tune Center Freq 13.265000000 GHz Start Freq 30.000000 MHz Stop Freq 26.500000000 GHz CF Step 2.647000000 GHz Auto Man Freq Offset 0 Hz	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4401 GHz	5.194 dBm				2	N	1	f	4.8806 GHz	-39.430 dBm				3	N	1	f	17.081 GHz	-43.381 dBm				4	N	1	f	21.957 GHz	-44.211 dBm				5	N	1	f	7.3192 GHz	-49.995 dBm				6									7									8									9									10									11								
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2480 MHz	Agilent Spectrum Analyzer - Swept SA RL RF ISO Q AC SENSE:INT1 ALIGN:AUTO 11:40:46 AM May 26, 2021 PN0: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 1/1 TRACE 1 2 3 4 5 TYPE: BW DEF: N Ref Offset 0.8 dB Ref 20.00 dBm Mkr1 2.4798 GHz 5.832 dBm 10 dB/div Log 1 2 5 3 4 Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 2.531 s (40001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4798 GHz</td><td>5.832 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>4.9607 GHz</td><td>-39.200 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>17.357 GHz</td><td>-46.756 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>22.317 GHz</td><td>-48.370 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>7.4403 GHz</td><td>-48.483 dBm</td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> File <BBB.png> saved STATUS Frequency Auto Tune Center Freq 13.265000000 GHz Start Freq 30.000000 MHz Stop Freq 26.500000000 GHz CF Step 2.647000000 GHz Auto Man Freq Offset 0 Hz	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4798 GHz	5.832 dBm				2	N	1	f	4.9607 GHz	-39.200 dBm				3	N	1	f	17.357 GHz	-46.756 dBm				4	N	1	f	22.317 GHz	-48.370 dBm				5	N	1	f	7.4403 GHz	-48.483 dBm				6									7									8									9									10									11								
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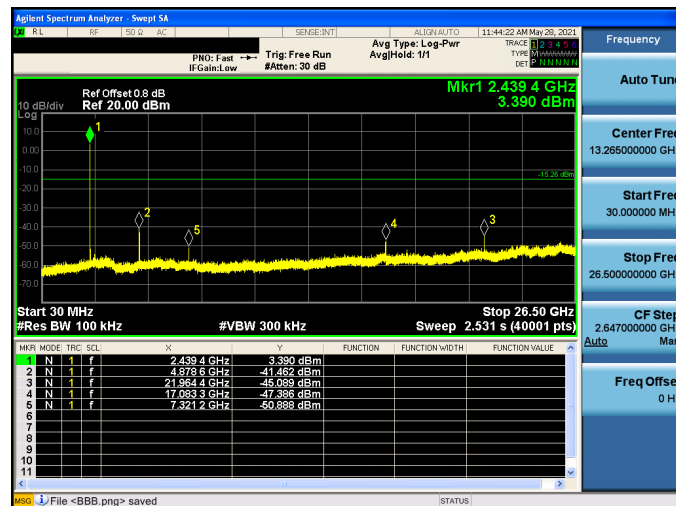


Mode 3

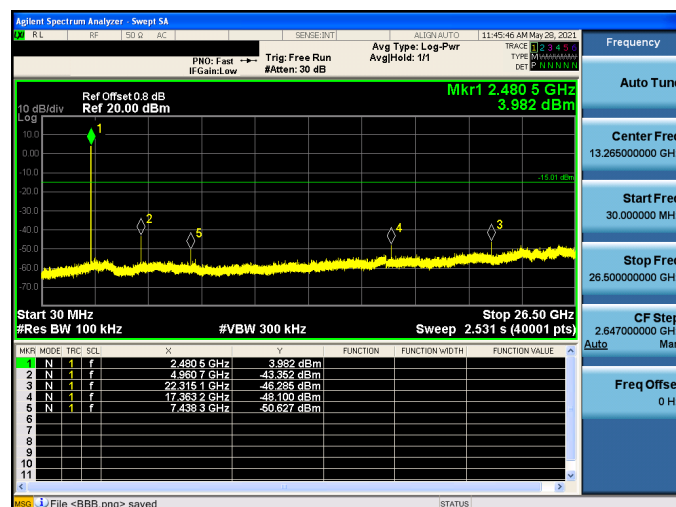
2402 MHz



2440 MHz



2480 MHz

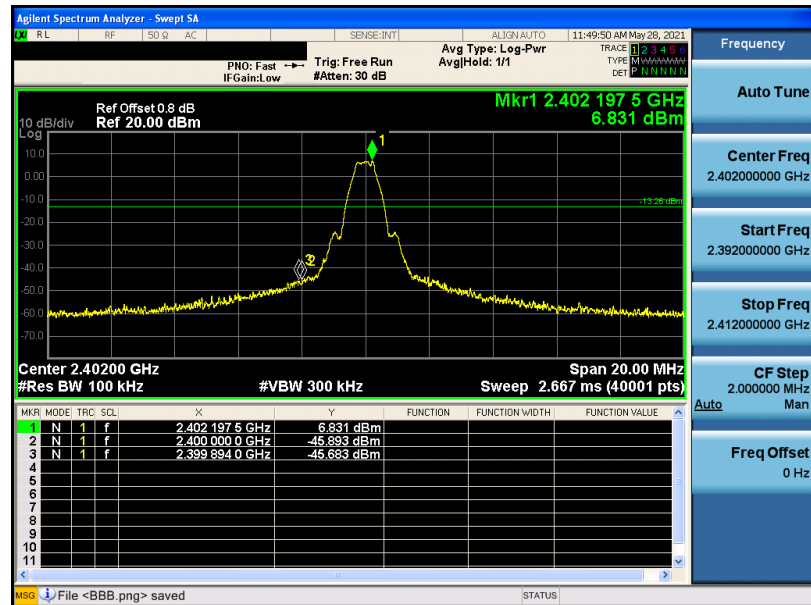




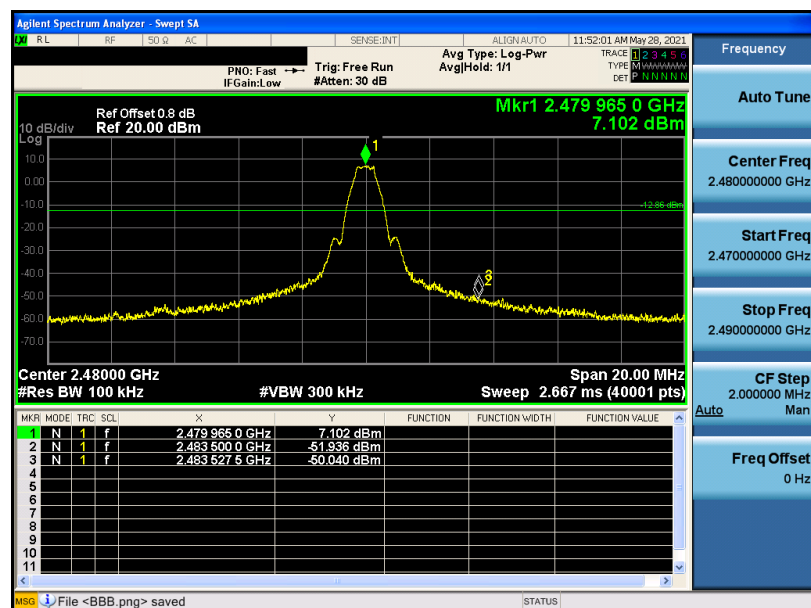
Conducted Band Edge

Mode 2

2402 MHz



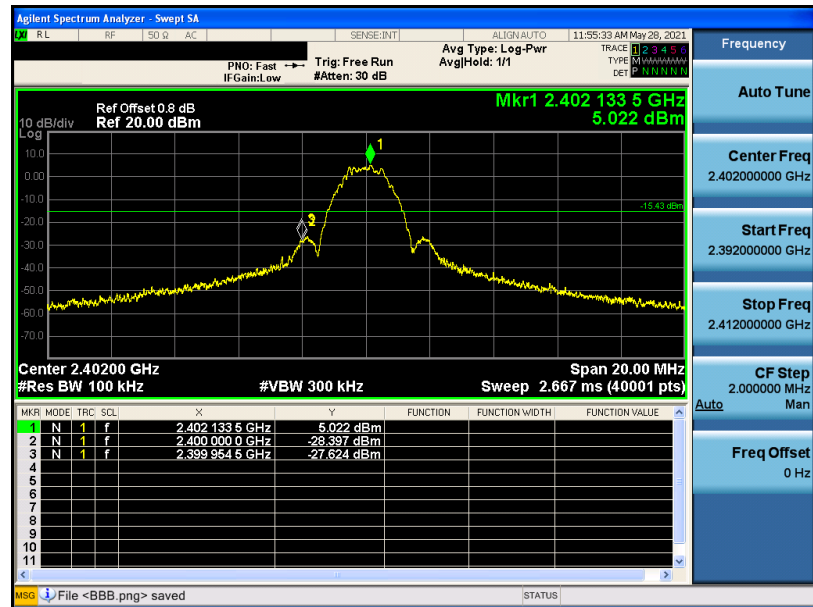
2480 MHz



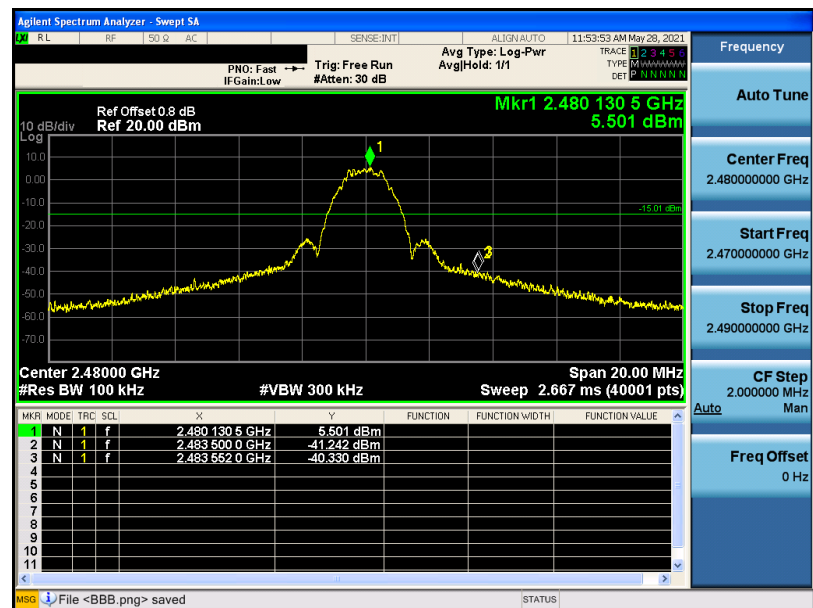


Mode 3

2402 MHz



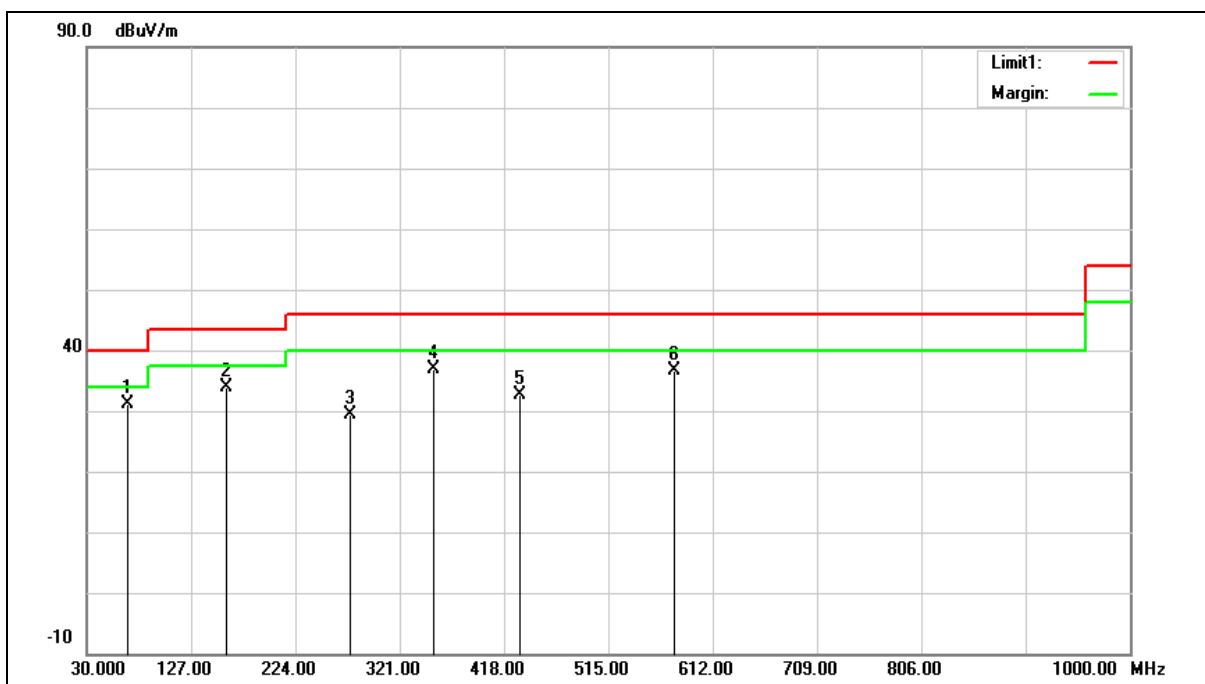
2480 MHz



Annex C. Radiated Emission Measurement

Below 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3m
Frequency:	2402 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	67.8300	41.60	-10.39	31.21	40.00	-8.79	QP
2	159.9800	41.50	-7.50	34.00	43.50	-9.50	QP
3	275.4100	36.71	-7.21	29.50	46.00	-16.50	QP
4	352.0400	42.35	-5.59	36.76	46.00	-9.24	QP
5	432.5500	36.88	-4.22	32.66	46.00	-13.34	QP
6	576.1100	38.55	-1.83	36.72	46.00	-9.28	QP

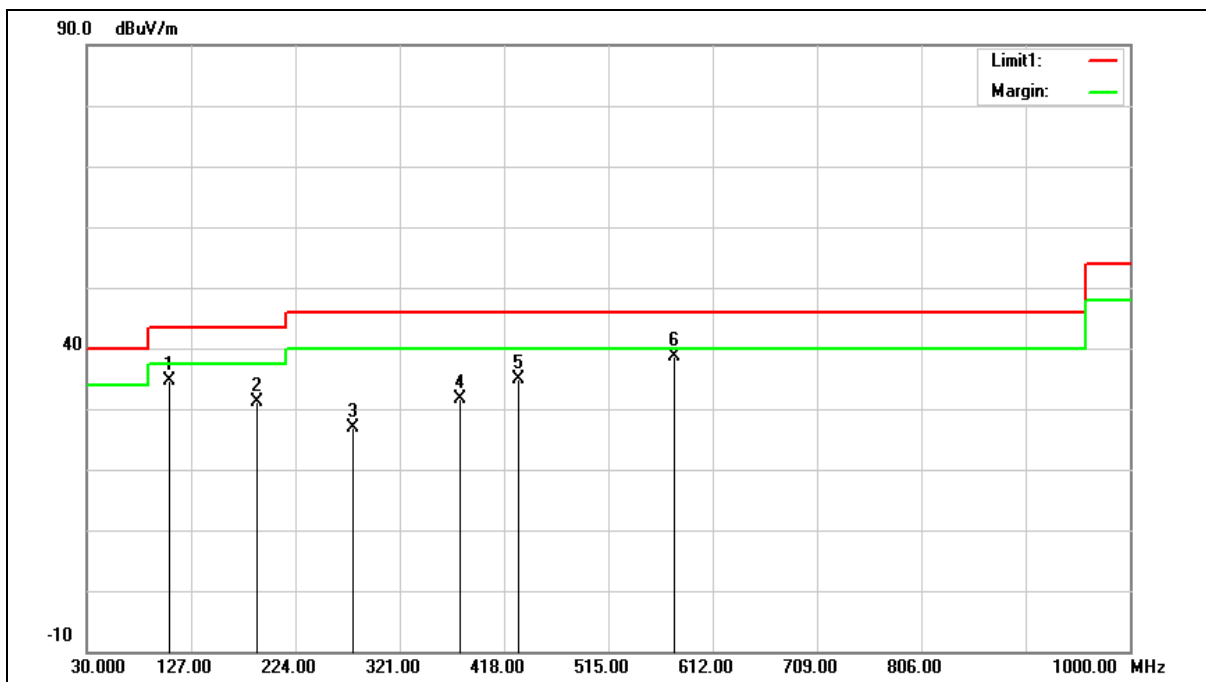
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example: $31.21 = -10.39 + 41.60$

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

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

Standard:	FCC Part 15.247	Test Distance:	3m
Frequency:	2402 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	106.6300	46.31	-11.62	34.69	43.50	-8.81	QP
2	188.1100	40.92	-9.83	31.09	43.50	-12.41	QP
3	277.3500	34.07	-7.13	26.94	46.00	-19.06	QP
4	377.2600	36.74	-5.17	31.57	46.00	-14.43	QP
5	431.5800	39.11	-4.23	34.88	46.00	-11.12	QP
6	576.1100	40.35	-1.83	38.52	46.00	-7.48	QP

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

Example: 34.69 = -11.62 + 46.31

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

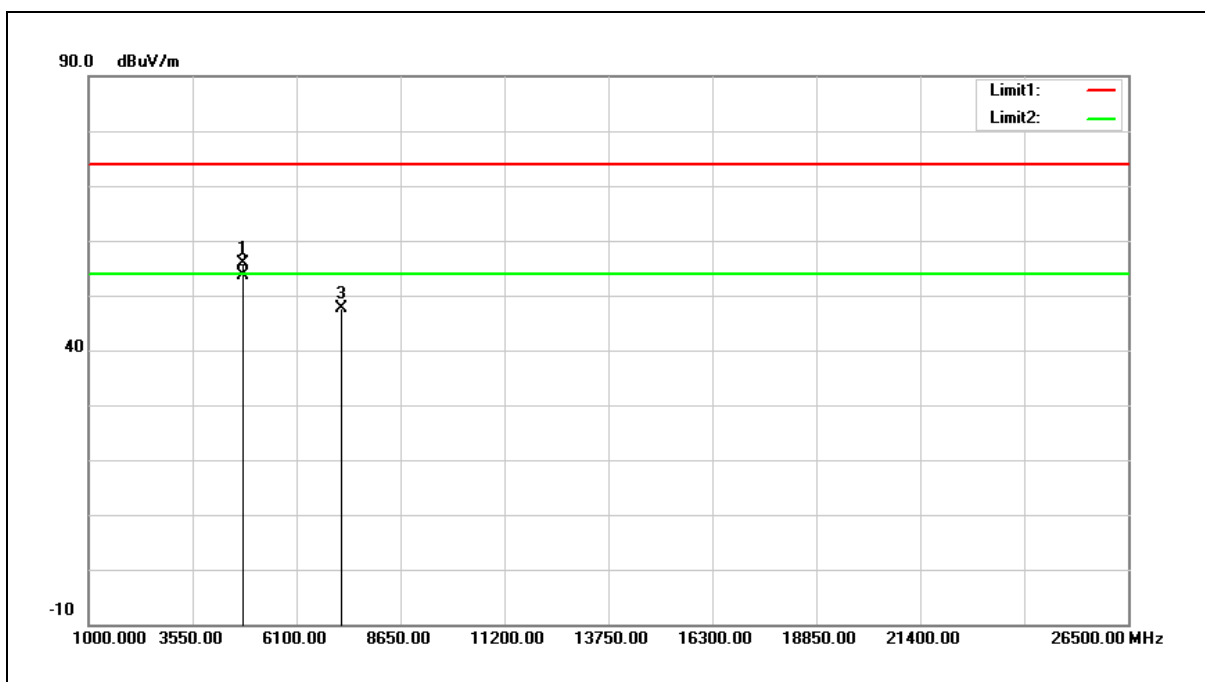
3.When the peak results are less than average limit, so not need to evaluate the average.



Harmonic

Above 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2402 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	4804.000	57.06	-1.30	55.76	74.00	-18.24	peak
2	4804.000	54.89	-1.30	53.59	54.00	-0.41	AVG
3	7206.000	42.00	5.74	47.74	74.00	-26.26	peak

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

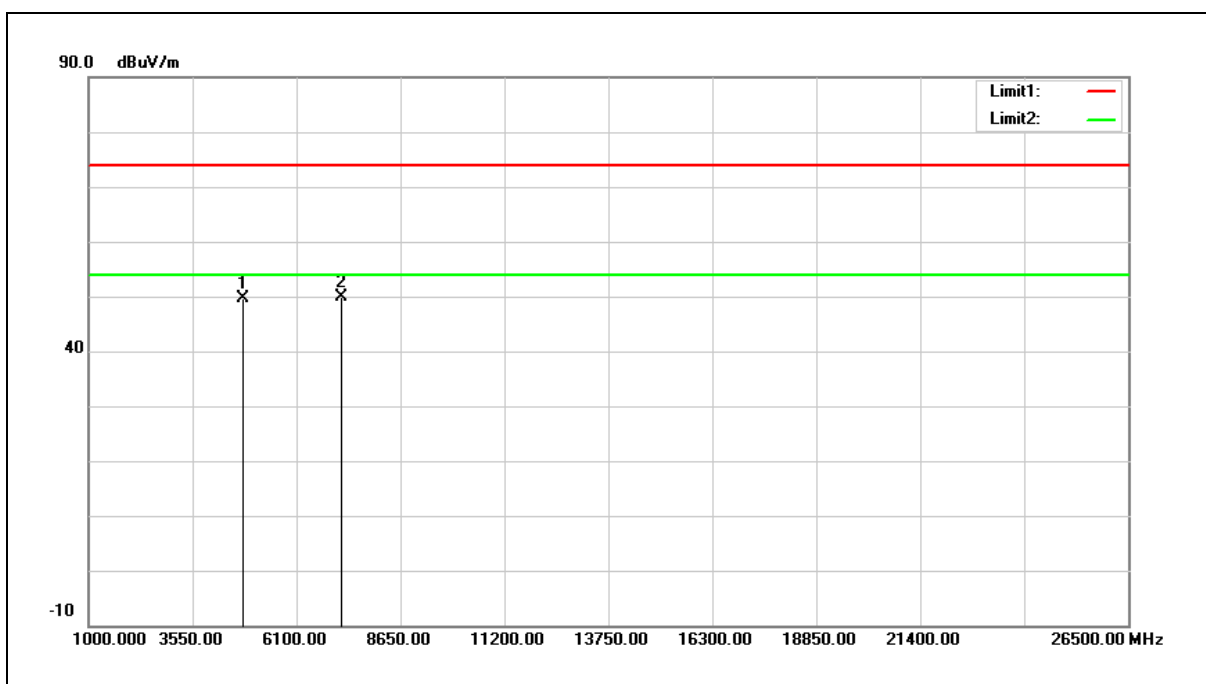
Example: $55.76 = -1.30 + 57.06$

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2402 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	4804.000	51.00	-1.30	49.70	74.00	-24.30	peak
2	7206.000	44.03	5.74	49.77	74.00	-24.23	peak

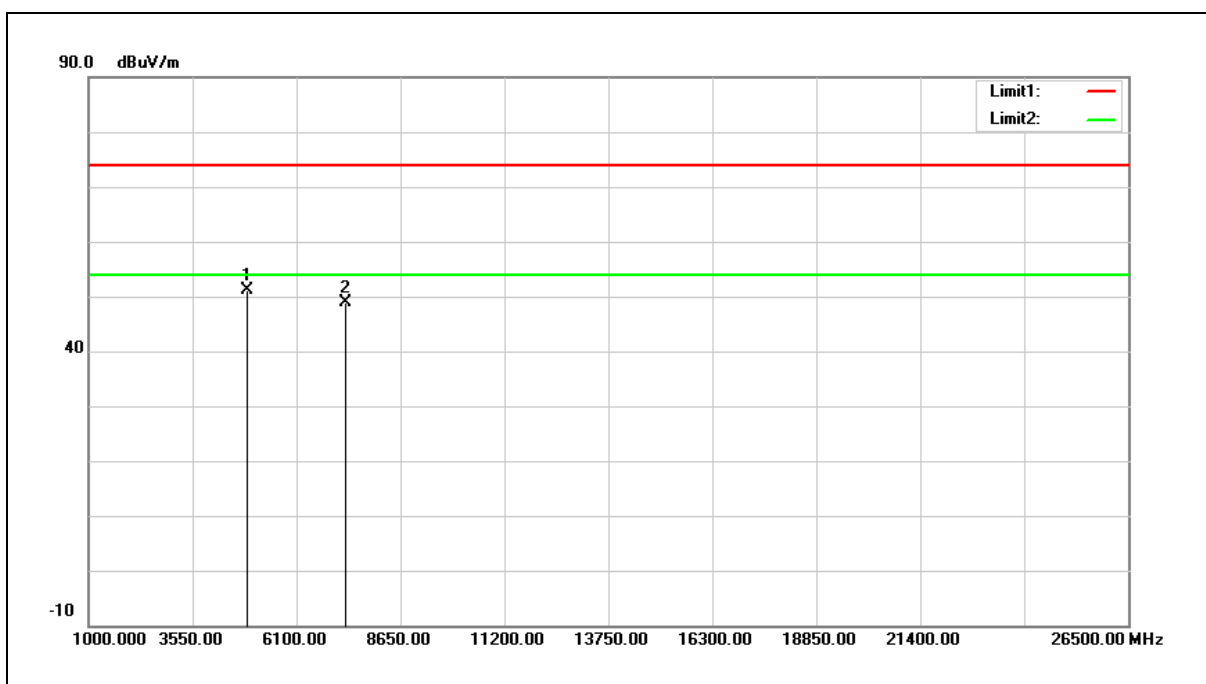
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example: $49.70 = -1.30 + 51.00$

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2440 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



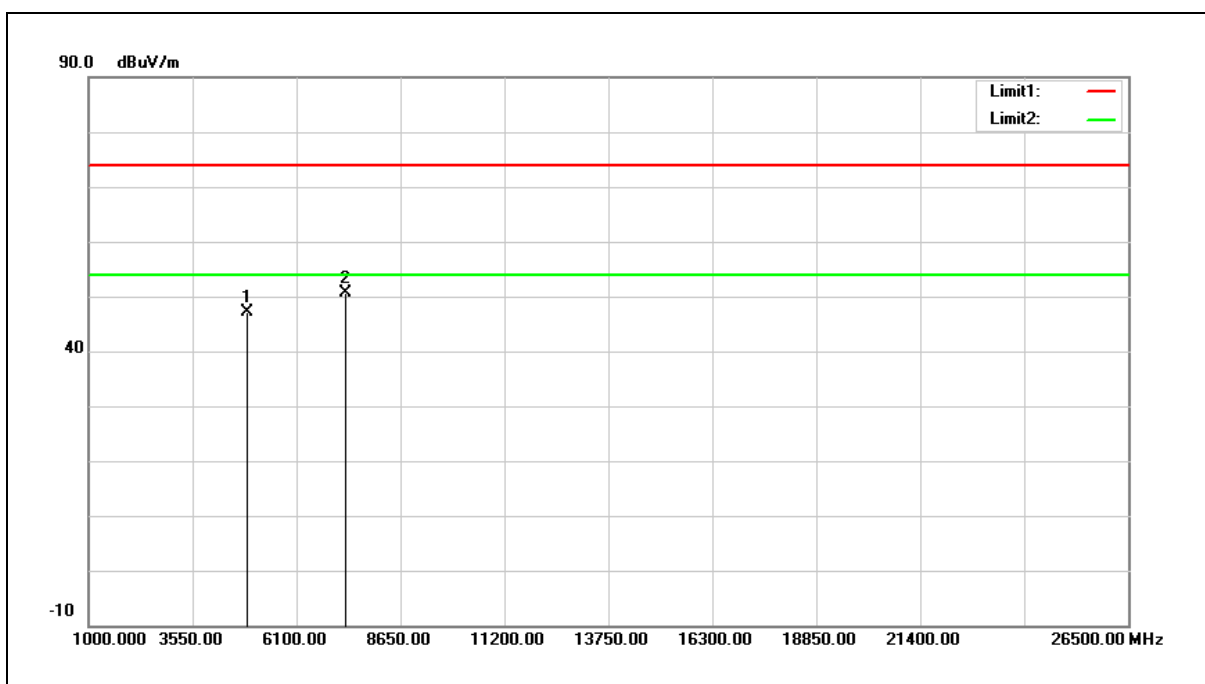
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	52.24	-1.11	51.13	74.00	-22.87	peak
2	7320.000	42.61	6.15	48.76	74.00	-25.24	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2440 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



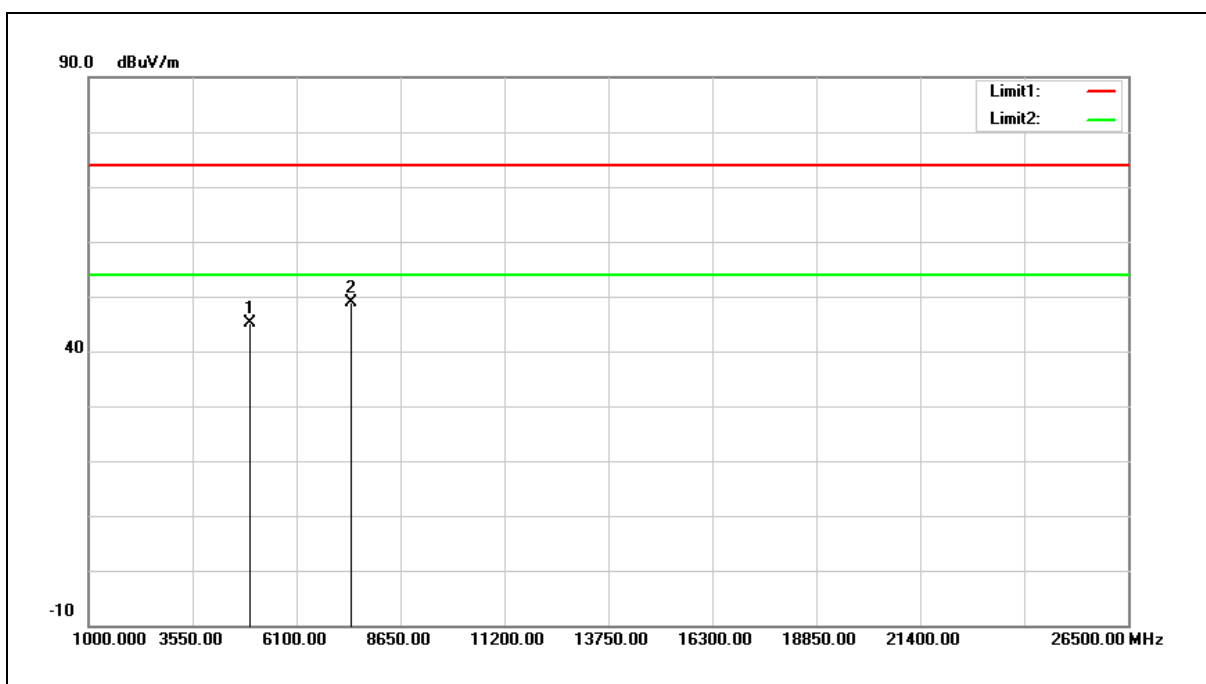
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	48.16	-1.11	47.05	74.00	-26.95	peak
2	7320.000	44.40	6.15	50.55	74.00	-23.45	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



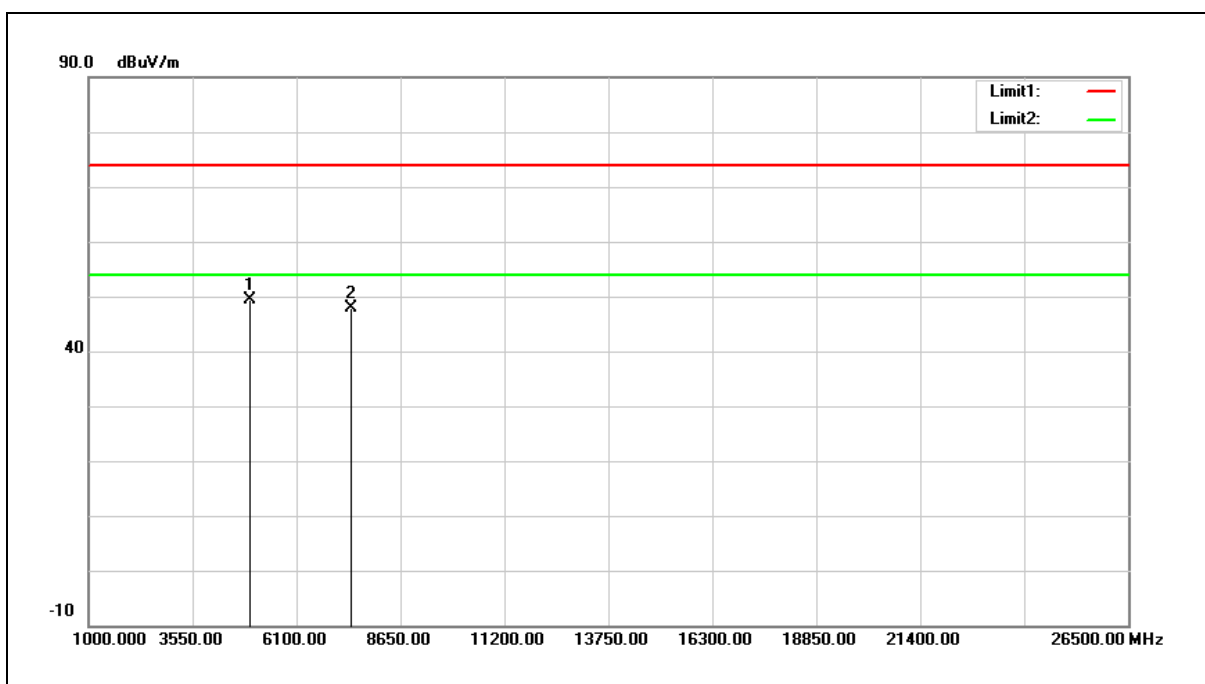
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	45.97	-0.88	45.09	74.00	-28.91	peak
2	7440.000	42.39	6.56	48.95	74.00	-25.05	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



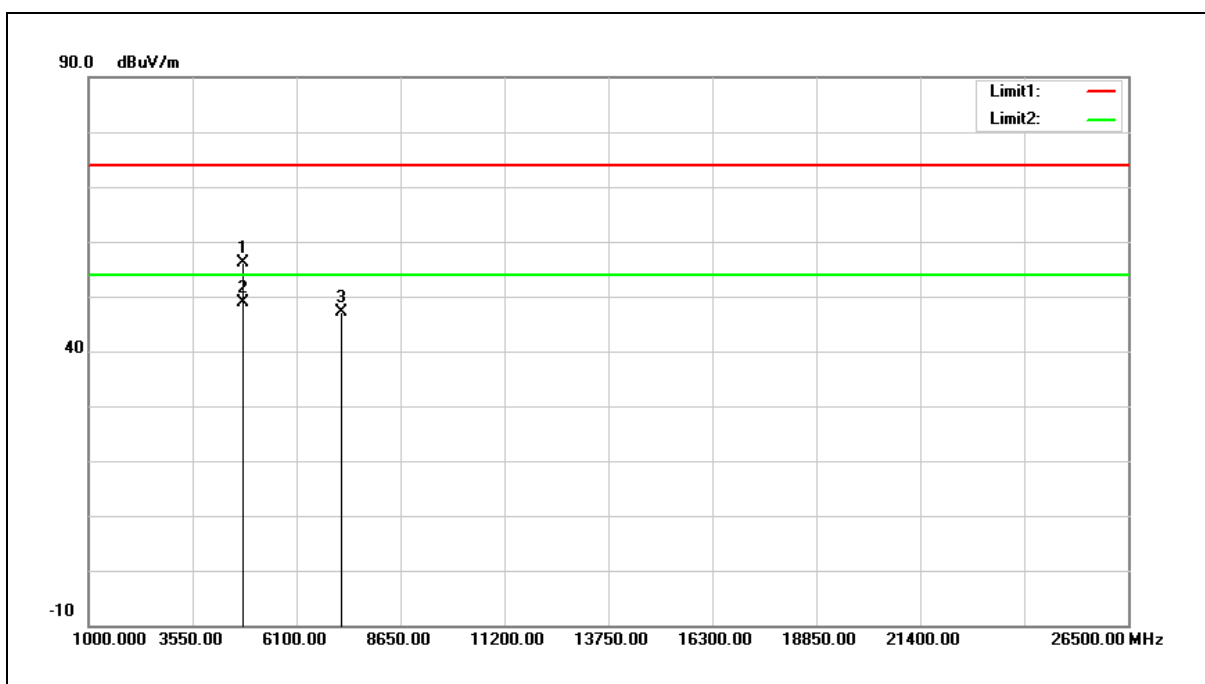
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	50.26	-0.88	49.38	74.00	-24.62	peak
2	7440.000	41.37	6.56	47.93	74.00	-26.07	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



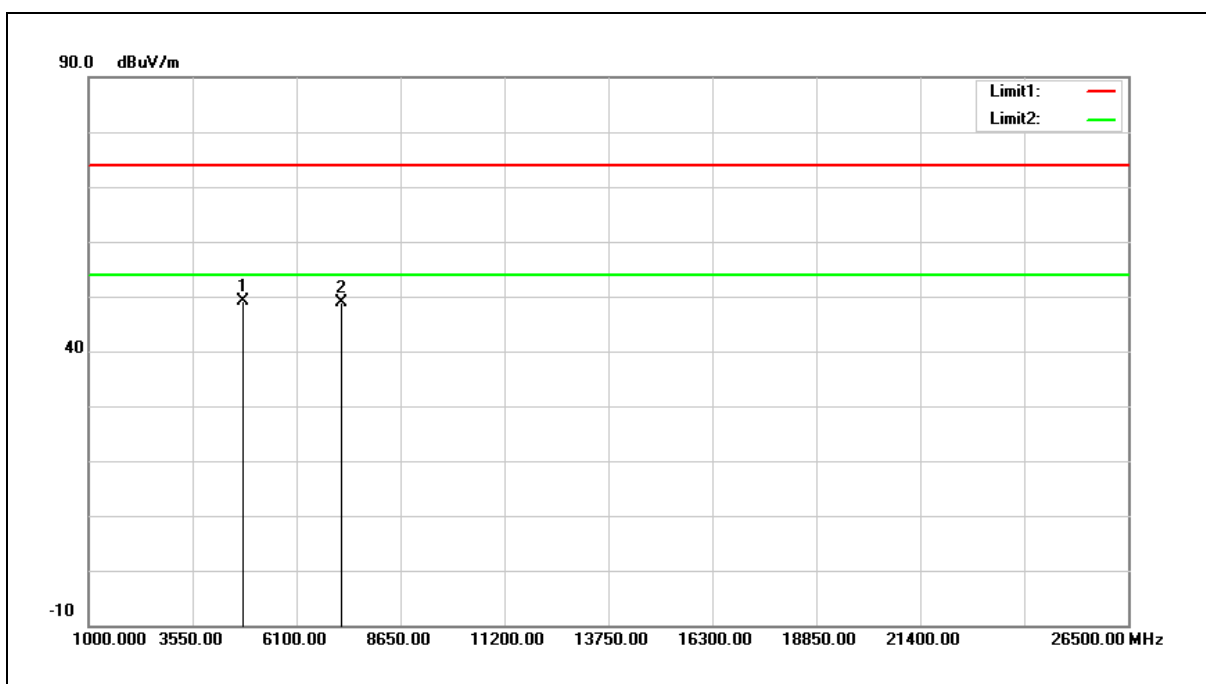
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.39	-1.30	56.09	74.00	-17.91	peak
2	4804.000	50.21	-1.30	48.91	54.00	-5.09	AVG
3	7206.000	41.40	5.74	47.14	74.00	-26.86	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2402 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		



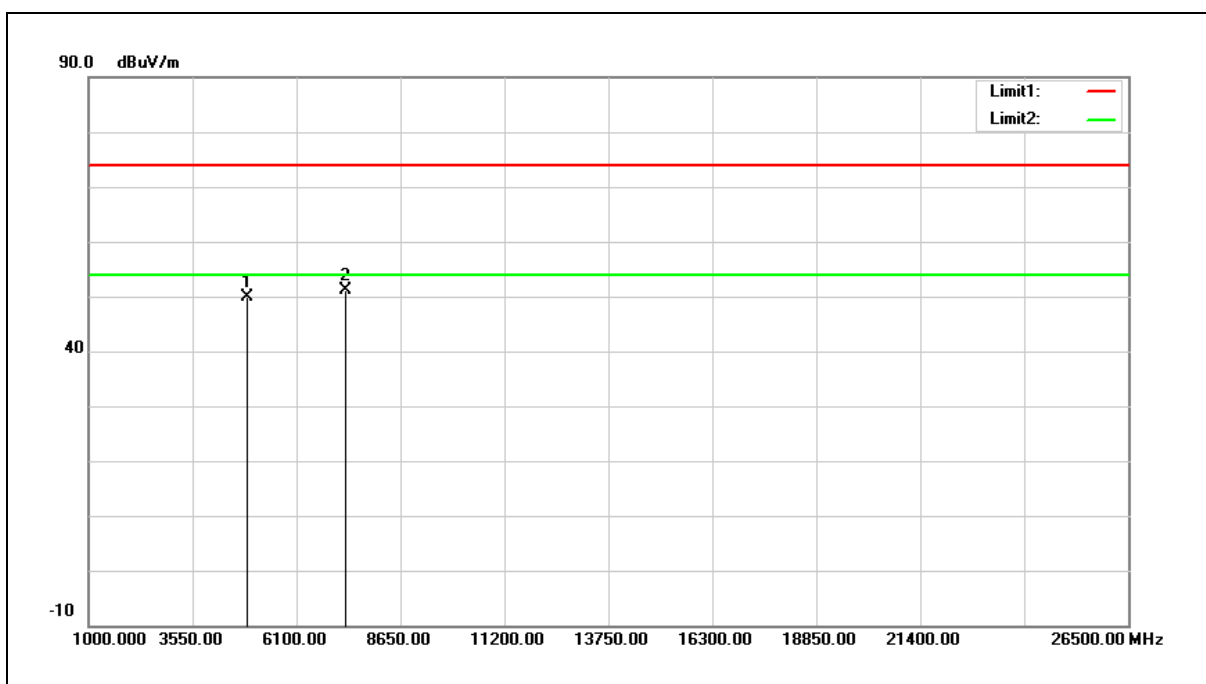
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	50.40	-1.30	49.10	74.00	-24.90	peak
2	7206.000	43.17	5.74	48.91	74.00	-25.09	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2440 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



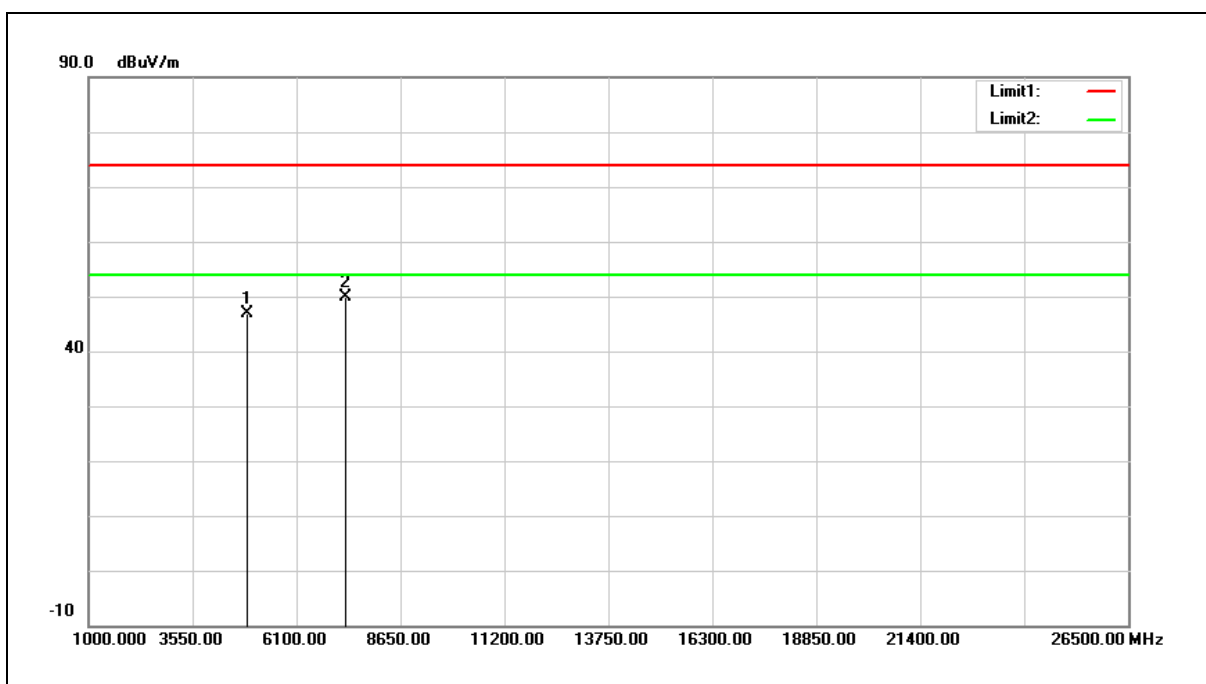
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	50.88	-1.11	49.77	74.00	-24.23	peak
2	7320.000	44.99	6.15	51.14	74.00	-22.86	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2440 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		



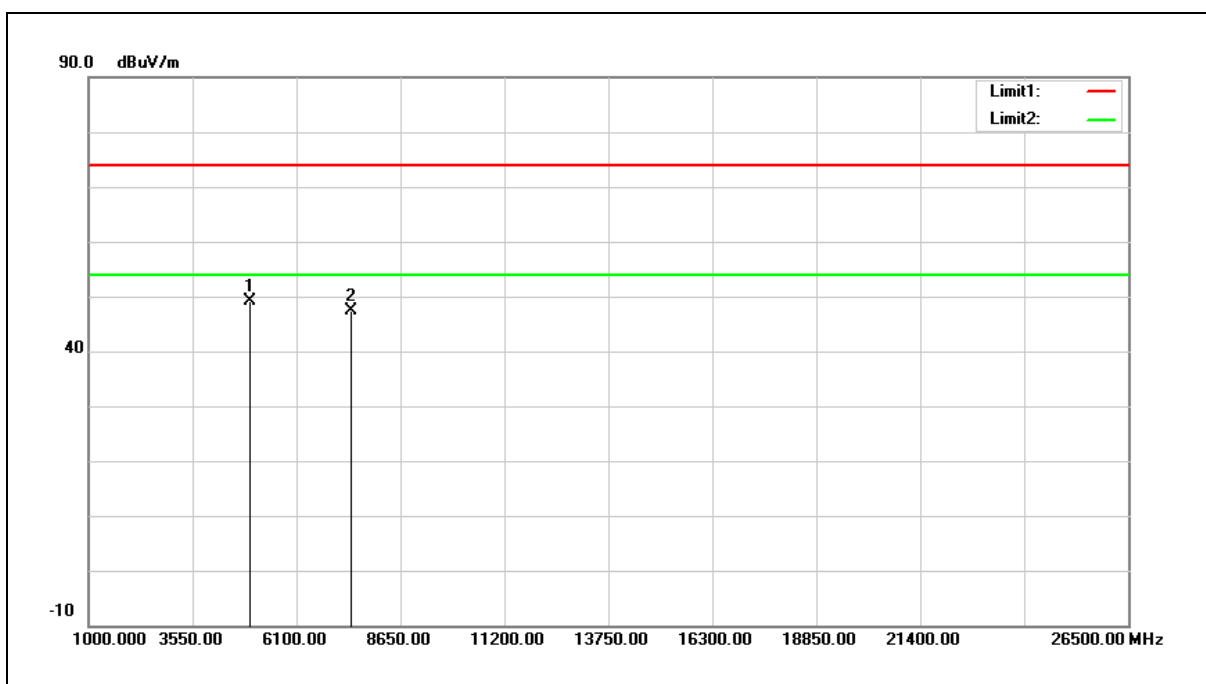
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	47.89	-1.11	46.78	74.00	-27.22	peak
2	7320.000	43.63	6.15	49.78	74.00	-24.22	peak

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 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



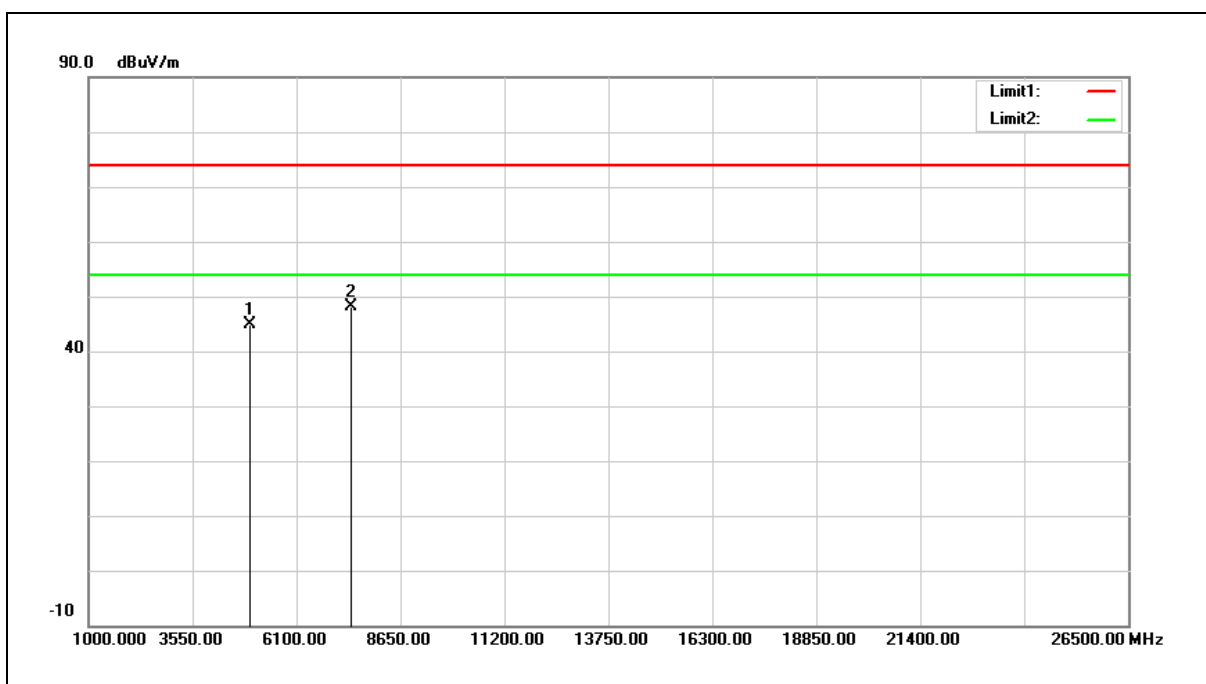
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	50.13	-0.88	49.25	74.00	-24.75	peak
2	7440.000	40.72	6.56	47.28	74.00	-26.72	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	2480 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	45.66	-0.88	44.78	74.00	-29.22	peak
2	7440.000	41.64	6.56	48.20	74.00	-25.80	peak

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

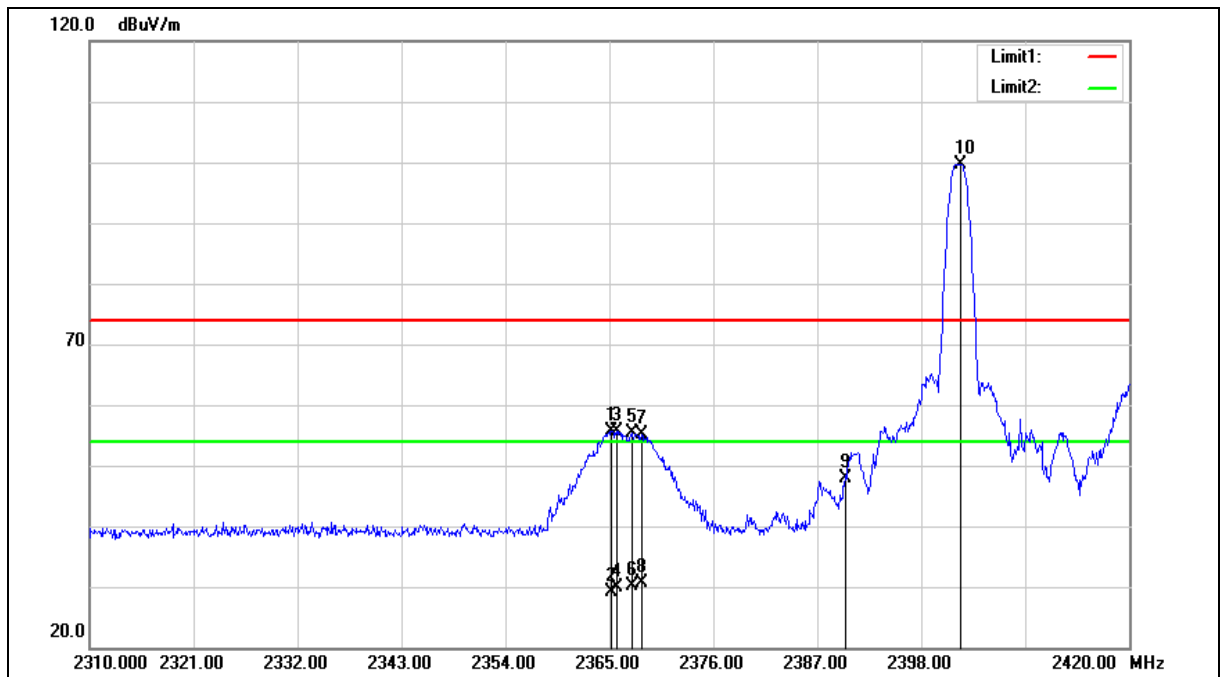
2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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



Band Edge

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

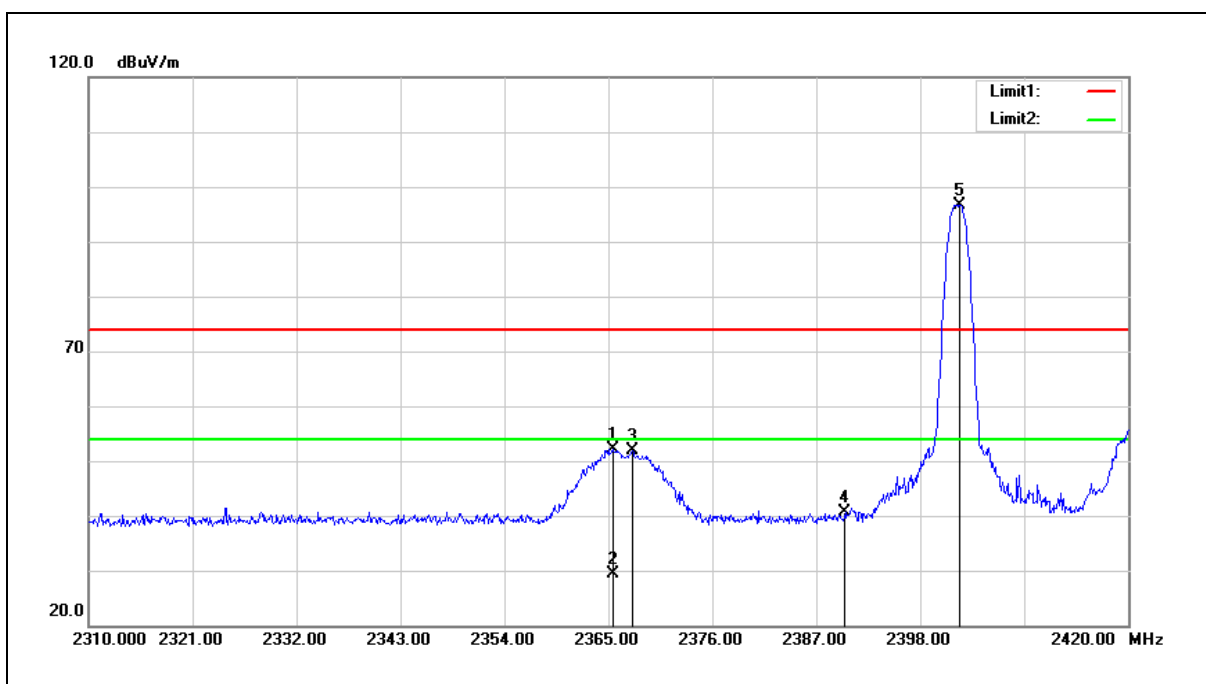
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2365.220	63.53	-7.82	55.71	74.00	-18.29	peak
2	2365.220	37.06	-7.82	29.24	54.00	-24.76	AVG
3	2365.770	63.53	-7.82	55.71	74.00	-18.29	peak
4	2365.770	37.59	-7.82	29.77	54.00	-24.23	AVG
5	2367.420	63.13	-7.82	55.31	74.00	-18.69	peak
6	2367.420	37.85	-7.82	30.03	54.00	-23.97	AVG
7	2368.410	62.85	-7.80	55.05	74.00	-18.95	peak
8	2368.410	38.43	-7.80	30.63	54.00	-23.37	AVG
9	2390.000	55.52	-7.72	47.80	74.00	-26.20	peak
10	2402.180	107.40	-7.66	99.74	--	--	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



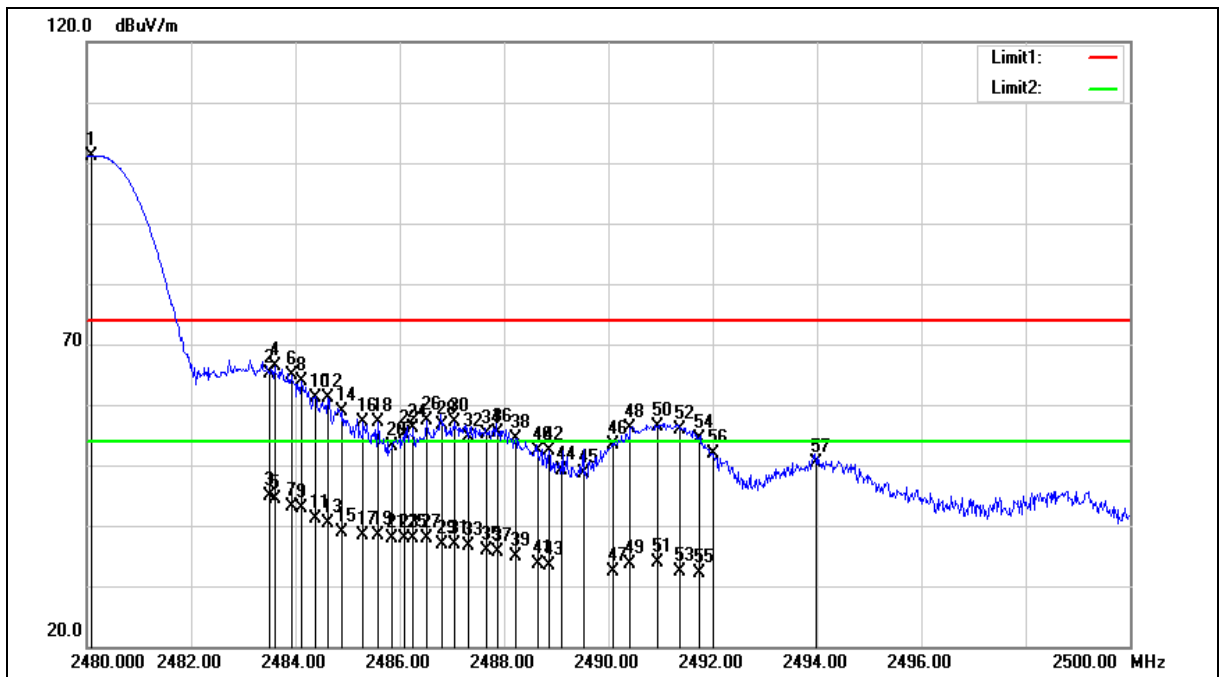
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2365.440	59.94	-7.82	52.12	74.00	-21.88	peak
2	2365.440	37.32	-7.82	29.50	54.00	-24.50	AVG
3	2367.530	59.74	-7.82	51.92	74.00	-22.08	peak
4	2390.000	48.24	-7.72	40.52	74.00	-33.48	peak
5	2402.180	104.26	-7.66	96.60	--	--	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 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	2480.080	108.54	-7.35	101.19	--	--	peak
2	2483.500	72.44	-7.34	65.10	74.00	-8.90	peak
3	2483.500	52.13	-7.34	44.79	54.00	-9.21	AVG
4	2483.600	73.72	-7.34	66.38	74.00	-7.62	peak
5	2483.600	51.62	-7.34	44.28	54.00	-9.72	AVG
6	2483.920	72.12	-7.34	64.78	74.00	-9.22	peak
7	2483.920	50.42	-7.34	43.08	54.00	-10.92	AVG
8	2484.120	71.19	-7.34	63.85	74.00	-10.15	peak
9	2484.120	50.19	-7.34	42.85	54.00	-11.15	AVG
10	2484.380	68.59	-7.34	61.25	74.00	-12.75	peak
11	2484.380	48.59	-7.34	41.25	54.00	-12.75	AVG
12	2484.620	68.52	-7.34	61.18	74.00	-12.82	peak
13	2484.620	47.79	-7.34	40.45	54.00	-13.55	AVG
14	2484.900	66.12	-7.34	58.78	74.00	-15.22	peak
15	2484.900	46.10	-7.34	38.76	54.00	-15.24	AVG
16	2485.300	64.49	-7.32	57.17	74.00	-16.83	peak
17	2485.300	45.71	-7.32	38.39	54.00	-15.61	AVG
18	2485.580	64.37	-7.32	57.05	74.00	-16.95	peak
19	2485.580	45.64	-7.32	38.32	54.00	-15.68	AVG
20	2485.860	60.56	-7.32	53.24	74.00	-20.76	peak
21	2485.860	45.21	-7.32	37.89	54.00	-16.11	AVG
22	2486.080	62.41	-7.32	55.09	74.00	-18.91	peak
23	2486.080	45.21	-7.32	37.89	54.00	-16.11	AVG
24	2486.260	63.48	-7.32	56.16	74.00	-17.84	peak
25	2486.260	45.17	-7.32	37.85	54.00	-16.15	AVG
26	2486.520	64.78	-7.32	57.46	74.00	-16.54	peak
27	2486.520	45.12	-7.32	37.80	54.00	-16.20	AVG



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 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
28	2486.820	63.91	-7.32	56.59	74.00	-17.41	peak
29	2486.820	44.14	-7.32	36.82	54.00	-17.18	AVG
30	2487.060	64.50	-7.32	57.18	74.00	-16.82	peak
31	2487.060	44.11	-7.32	36.79	54.00	-17.21	AVG
32	2487.320	62.07	-7.32	54.75	74.00	-19.25	peak
33	2487.320	43.91	-7.32	36.59	54.00	-17.41	AVG
34	2487.660	62.51	-7.32	55.19	74.00	-18.81	peak
35	2487.660	43.29	-7.32	35.97	54.00	-18.03	AVG
36	2487.880	62.61	-7.32	55.29	74.00	-18.71	peak
37	2487.880	42.97	-7.32	35.65	54.00	-18.35	AVG
38	2488.220	61.63	-7.32	54.31	74.00	-19.69	peak
39	2488.220	42.32	-7.32	35.00	54.00	-19.00	AVG
40	2488.660	59.62	-7.31	52.31	74.00	-21.69	peak
41	2488.660	41.03	-7.31	33.72	54.00	-20.28	AVG
42	2488.860	59.69	-7.31	52.38	74.00	-21.62	peak
43	2488.860	40.57	-7.31	33.26	54.00	-20.74	AVG
44	2489.100	56.34	-7.31	49.03	74.00	-24.97	peak
45	2489.540	55.94	-7.31	48.63	74.00	-25.37	peak
46	2490.100	60.77	-7.31	53.46	74.00	-20.54	peak
47	2490.100	39.59	-7.31	32.28	54.00	-21.72	AVG
48	2490.420	63.36	-7.31	56.05	74.00	-17.95	peak
49	2490.420	40.98	-7.31	33.67	54.00	-20.33	AVG
50	2490.940	63.57	-7.31	56.26	74.00	-17.74	peak
51	2490.940	41.31	-7.31	34.00	54.00	-20.00	AVG
52	2491.380	63.09	-7.31	55.78	74.00	-18.22	peak
53	2491.380	39.78	-7.31	32.47	54.00	-21.53	AVG
54	2491.740	61.79	-7.30	54.49	74.00	-19.51	peak



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 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
55	2491.740	39.53	-7.30	32.23	54.00	-21.77	AVG
56	2492.020	59.15	-7.30	51.85	74.00	-22.15	peak
57	2493.980	57.60	-7.29	50.31	74.00	-23.69	peak

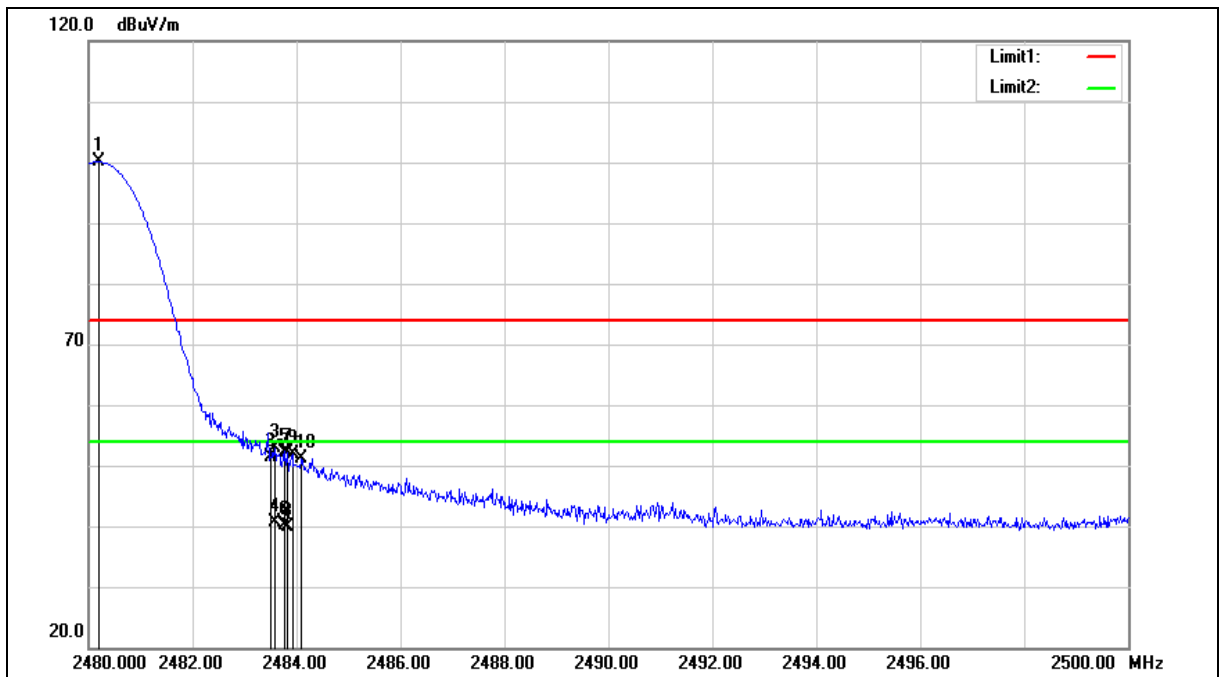
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 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	2480.200	107.40	-7.35	100.05	--	--	peak
2	2483.500	58.61	-7.34	51.27	74.00	-22.73	peak
3	2483.580	60.10	-7.34	52.76	74.00	-21.24	peak
4	2483.580	47.86	-7.34	40.52	54.00	-13.48	AVG
5	2483.760	59.59	-7.34	52.25	74.00	-21.75	peak
6	2483.760	47.38	-7.34	40.04	54.00	-13.96	AVG
7	2483.820	59.56	-7.34	52.22	74.00	-21.78	peak
8	2483.820	47.11	-7.34	39.77	54.00	-14.23	AVG
9	2483.920	59.30	-7.34	51.96	74.00	-22.04	peak
10	2484.100	58.57	-7.34	51.23	74.00	-22.77	peak

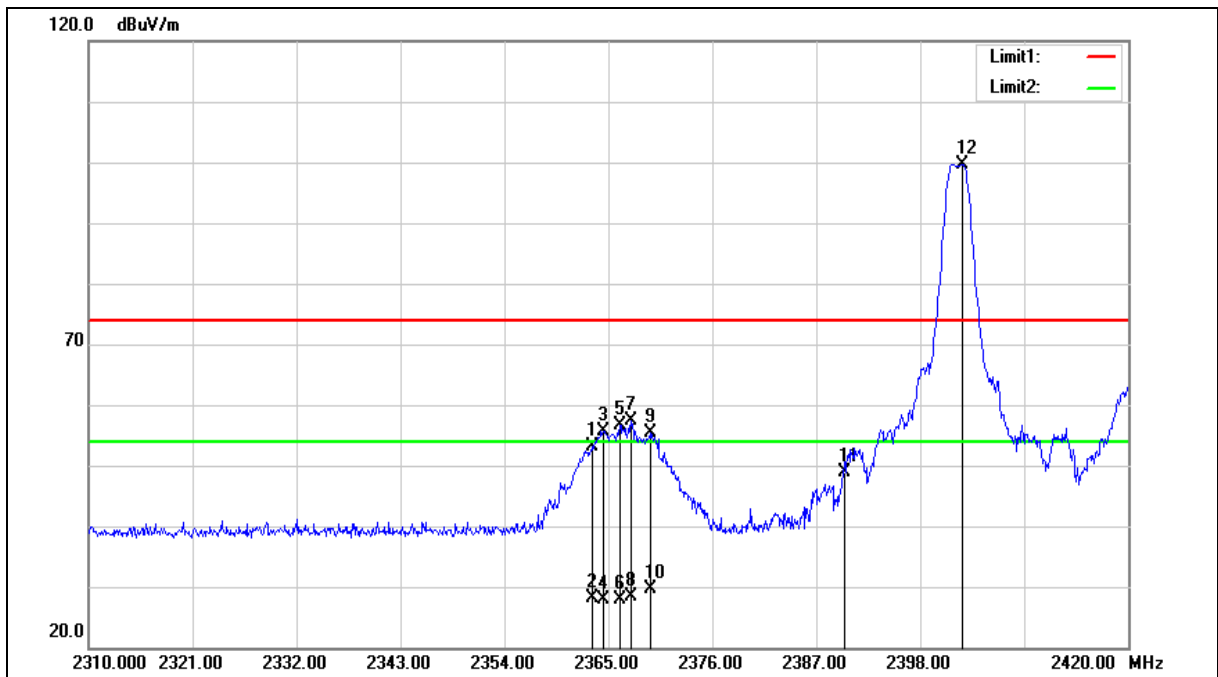
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

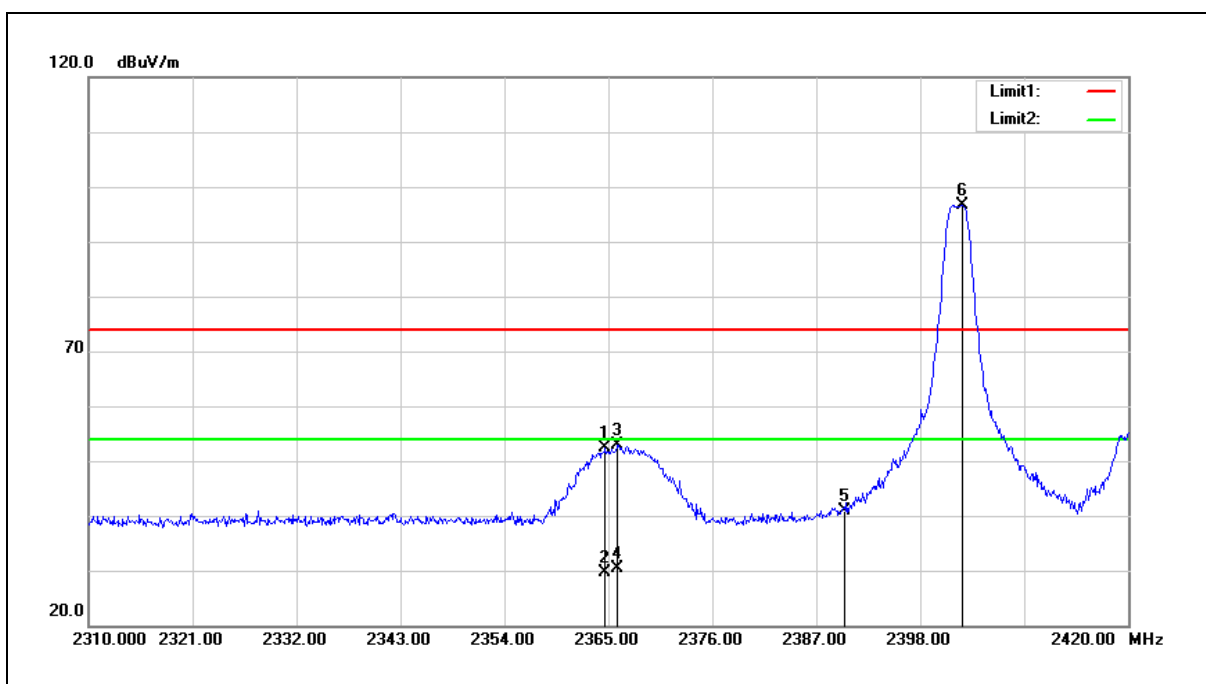
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2363.350	60.85	-7.83	53.02	74.00	-20.98	peak
2	2363.350	36.02	-7.83	28.19	54.00	-25.81	AVG
3	2364.450	63.52	-7.83	55.69	74.00	-18.31	peak
4	2364.450	35.69	-7.83	27.86	54.00	-26.14	AVG
5	2366.210	64.43	-7.82	56.61	74.00	-17.39	peak
6	2366.210	35.82	-7.82	28.00	54.00	-26.00	AVG
7	2367.420	65.09	-7.82	57.27	74.00	-16.73	peak
8	2367.420	36.12	-7.82	28.30	54.00	-25.70	AVG
9	2369.400	63.25	-7.80	55.45	74.00	-18.55	peak
10	2369.400	37.50	-7.80	29.70	54.00	-24.30	AVG
11	2390.000	56.62	-7.72	48.90	74.00	-25.10	peak
12	2402.400	107.41	-7.66	99.75	--	--	peak

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

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

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

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2402 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2364.670	60.27	-7.83	52.44	74.00	-21.56	peak
2	2364.670	37.47	-7.83	29.64	54.00	-24.36	AVG
3	2365.990	60.58	-7.82	52.76	74.00	-21.24	peak
4	2365.990	38.10	-7.82	30.28	54.00	-23.72	AVG
5	2390.000	48.65	-7.72	40.93	74.00	-33.07	peak
6	2402.400	104.34	-7.66	96.68	--	--	peak

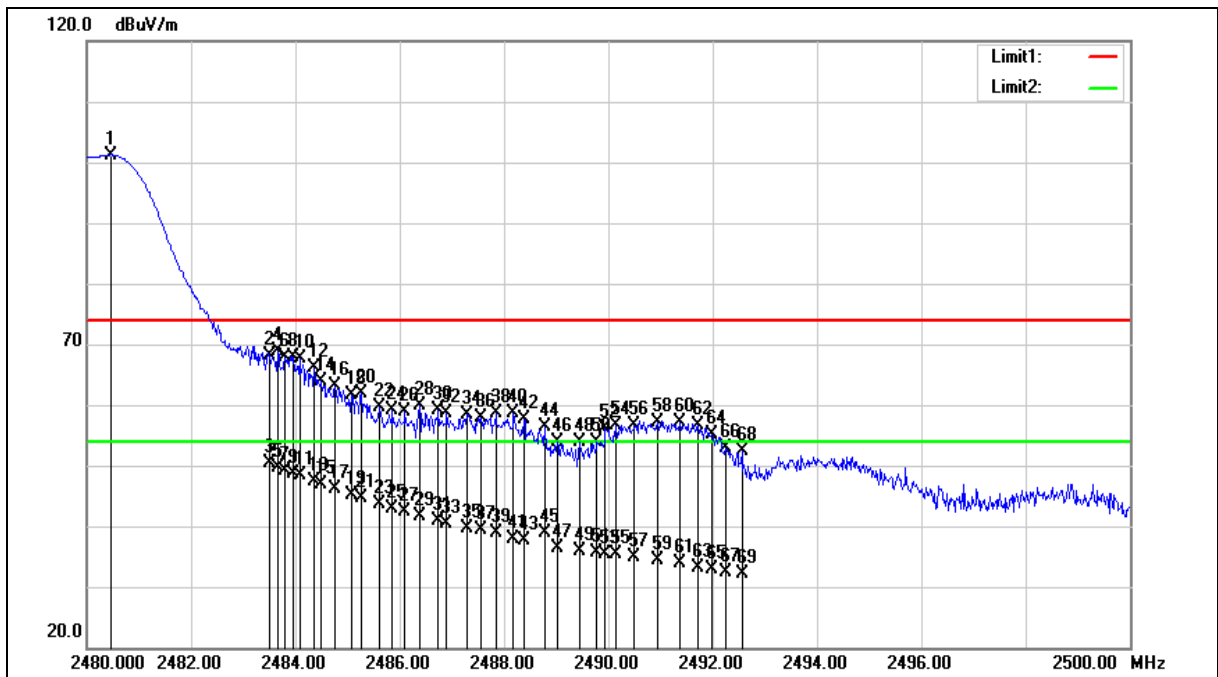
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.460	108.60	-7.35	101.25	--	--	peak
2	2483.500	75.38	-7.34	68.04	74.00	-5.96	peak
3	2483.500	57.65	-7.34	50.31	54.00	-3.69	AVG
4	2483.660	76.26	-7.34	68.92	74.00	-5.08	peak
5	2483.660	57.02	-7.34	49.68	54.00	-4.32	AVG
6	2483.800	75.19	-7.34	67.85	74.00	-6.15	peak
7	2483.800	56.44	-7.34	49.10	54.00	-4.90	AVG
8	2483.960	75.28	-7.34	67.94	74.00	-6.06	peak
9	2483.960	55.97	-7.34	48.63	54.00	-5.37	AVG
10	2484.080	74.90	-7.34	67.56	74.00	-6.44	peak
11	2484.080	55.61	-7.34	48.27	54.00	-5.73	AVG
12	2484.360	73.49	-7.34	66.15	74.00	-7.85	peak
13	2484.360	54.72	-7.34	47.38	54.00	-6.62	AVG
14	2484.500	71.24	-7.34	63.90	74.00	-10.10	peak
15	2484.500	54.23	-7.34	46.89	54.00	-7.11	AVG
16	2484.760	70.39	-7.34	63.05	74.00	-10.95	peak
17	2484.760	53.42	-7.34	46.08	54.00	-7.92	AVG
18	2485.080	68.93	-7.33	61.60	74.00	-12.40	peak
19	2485.080	52.50	-7.33	45.17	54.00	-8.83	AVG
20	2485.260	69.26	-7.33	61.93	74.00	-12.07	peak
21	2485.260	51.93	-7.33	44.60	54.00	-9.40	AVG
22	2485.620	66.83	-7.32	59.51	74.00	-14.49	peak
23	2485.620	50.89	-7.32	43.57	54.00	-10.43	AVG
24	2485.860	66.53	-7.32	59.21	74.00	-14.79	peak
25	2485.860	50.13	-7.32	42.81	54.00	-11.19	AVG
26	2486.100	66.25	-7.32	58.93	74.00	-15.07	peak
27	2486.100	49.65	-7.32	42.33	54.00	-11.67	AVG



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
28	2486.380	67.12	-7.32	59.80	74.00	-14.20	peak
29	2486.380	48.95	-7.32	41.63	54.00	-12.37	AVG
30	2486.740	66.56	-7.32	59.24	74.00	-14.76	peak
31	2486.740	48.16	-7.32	40.84	54.00	-13.16	AVG
32	2486.900	65.99	-7.32	58.67	74.00	-15.33	peak
33	2486.900	47.75	-7.32	40.43	54.00	-13.57	AVG
34	2487.300	65.76	-7.32	58.44	74.00	-15.56	peak
35	2487.300	47.02	-7.32	39.70	54.00	-14.30	AVG
36	2487.560	65.31	-7.32	57.99	74.00	-16.01	peak
37	2487.560	46.63	-7.32	39.31	54.00	-14.69	AVG
38	2487.840	65.96	-7.32	58.64	74.00	-15.36	peak
39	2487.840	46.14	-7.32	38.82	54.00	-15.18	AVG
40	2488.180	65.84	-7.32	58.52	74.00	-15.48	peak
41	2488.180	45.20	-7.32	37.88	54.00	-16.12	AVG
42	2488.380	64.99	-7.31	57.68	74.00	-16.32	peak
43	2488.380	44.99	-7.31	37.68	54.00	-16.32	AVG
44	2488.780	63.80	-7.31	56.49	74.00	-17.51	peak
45	2488.780	46.17	-7.31	38.86	54.00	-15.14	AVG
46	2489.020	61.17	-7.31	53.86	74.00	-20.14	peak
47	2489.020	43.80	-7.31	36.49	54.00	-17.51	AVG
48	2489.440	61.25	-7.31	53.94	74.00	-20.06	peak
49	2489.440	43.14	-7.31	35.83	54.00	-18.17	AVG
50	2489.780	61.17	-7.31	53.86	74.00	-20.14	peak
51	2489.780	42.93	-7.31	35.62	54.00	-18.38	AVG
52	2489.940	63.43	-7.31	56.12	74.00	-17.88	peak
53	2489.940	42.75	-7.31	35.44	54.00	-18.56	AVG
54	2490.140	63.93	-7.31	56.62	74.00	-17.38	peak



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
55	2490.140	42.73	-7.31	35.42	54.00	-18.58	AVG
56	2490.500	64.00	-7.31	56.69	74.00	-17.31	peak
57	2490.500	42.14	-7.31	34.83	54.00	-19.17	AVG
58	2490.940	64.33	-7.31	57.02	74.00	-16.98	peak
59	2490.940	41.74	-7.31	34.43	54.00	-19.57	AVG
60	2491.380	64.41	-7.31	57.10	74.00	-16.90	peak
61	2491.380	41.24	-7.31	33.93	54.00	-20.07	AVG
62	2491.720	63.82	-7.30	56.52	74.00	-17.48	peak
63	2491.720	40.34	-7.30	33.04	54.00	-20.96	AVG
64	2491.980	62.52	-7.30	55.22	74.00	-18.78	peak
65	2491.980	40.12	-7.30	32.82	54.00	-21.18	AVG
66	2492.240	60.13	-7.30	52.83	74.00	-21.17	peak
67	2492.240	39.70	-7.30	32.40	54.00	-21.60	AVG
68	2492.560	59.80	-7.30	52.50	74.00	-21.50	peak
69	2492.560	39.31	-7.30	32.01	54.00	-21.99	AVG

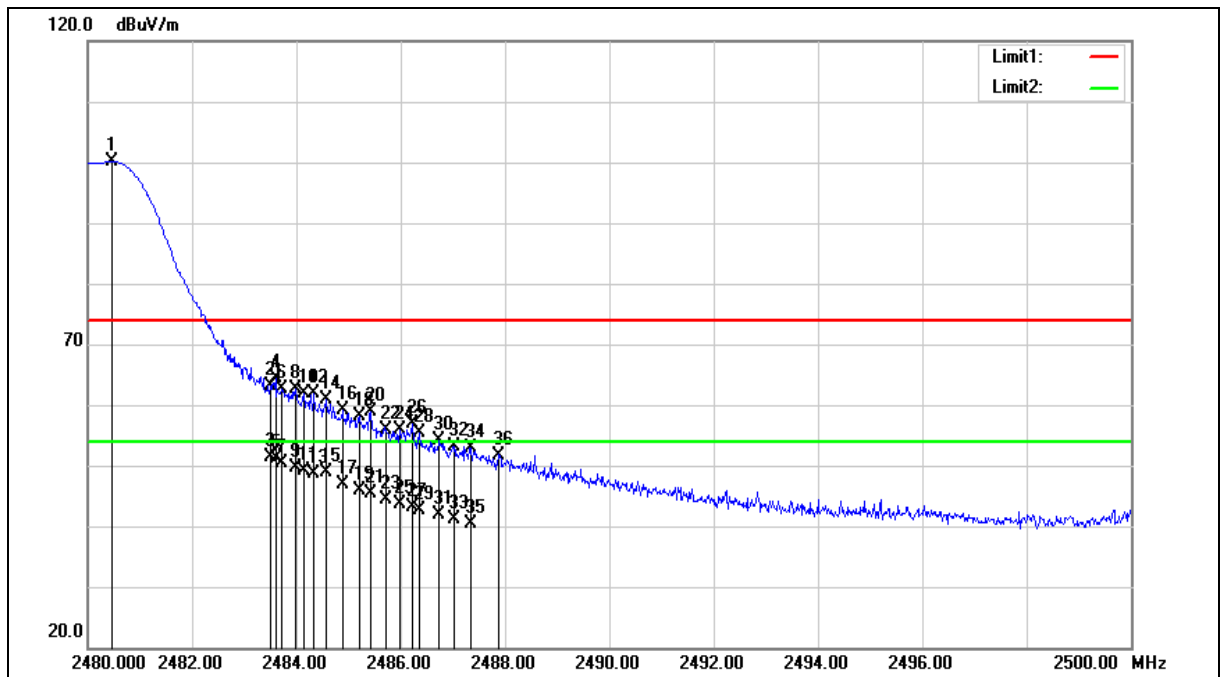
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.460	107.50	-7.35	100.15	--	--	peak
2	2483.500	70.43	-7.34	63.09	74.00	-10.91	peak
3	2483.500	58.80	-7.34	51.46	54.00	-2.54	AVG
4	2483.600	71.68	-7.34	64.34	74.00	-9.66	peak
5	2483.600	58.41	-7.34	51.07	54.00	-2.93	AVG
6	2483.720	69.88	-7.34	62.54	74.00	-11.46	peak
7	2483.720	57.72	-7.34	50.38	54.00	-3.62	AVG
8	2483.980	70.00	-7.34	62.66	74.00	-11.34	peak
9	2483.980	56.98	-7.34	49.64	54.00	-4.36	AVG
10	2484.140	69.13	-7.34	61.79	74.00	-12.21	peak
11	2484.140	56.42	-7.34	49.08	54.00	-4.92	AVG
12	2484.340	69.27	-7.34	61.93	74.00	-12.07	peak
13	2484.340	55.85	-7.34	48.51	54.00	-5.49	AVG
14	2484.580	68.31	-7.34	60.97	74.00	-13.03	peak
15	2484.580	56.21	-7.34	48.87	54.00	-5.13	AVG
16	2484.880	66.35	-7.34	59.01	74.00	-14.99	peak
17	2484.880	54.27	-7.34	46.93	54.00	-7.07	AVG
18	2485.200	65.43	-7.33	58.10	74.00	-15.90	peak
19	2485.200	53.30	-7.33	45.97	54.00	-8.03	AVG
20	2485.420	66.18	-7.32	58.86	74.00	-15.14	peak
21	2485.420	52.58	-7.32	45.26	54.00	-8.74	AVG
22	2485.720	63.21	-7.32	55.89	74.00	-18.11	peak
23	2485.720	51.71	-7.32	44.39	54.00	-9.61	AVG
24	2485.980	63.08	-7.32	55.76	74.00	-18.24	peak
25	2485.980	51.01	-7.32	43.69	54.00	-10.31	AVG
26	2486.220	64.14	-7.32	56.82	74.00	-17.18	peak
27	2486.220	50.37	-7.32	43.05	54.00	-10.95	AVG



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge		
Frequency:	2480 MHz		
Mode:	Mode 3		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
28	2486.360	62.71	-7.32	55.39	74.00	-18.61	peak
29	2486.360	50.02	-7.32	42.70	54.00	-11.30	AVG
30	2486.740	61.49	-7.32	54.17	74.00	-19.83	peak
31	2486.740	49.13	-7.32	41.81	54.00	-12.19	AVG
32	2487.020	60.41	-7.32	53.09	74.00	-20.91	peak
33	2487.020	48.45	-7.32	41.13	54.00	-12.87	AVG
34	2487.340	60.17	-7.32	52.85	74.00	-21.15	peak
35	2487.340	47.79	-7.32	40.47	54.00	-13.53	AVG
36	2487.880	59.07	-7.32	51.75	74.00	-22.25	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.

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