

## RF Test Report

Applicant : Getac Technology Corporation

Product Name : Wireless Module

Trade Name : Getac

Model Number : AX211NGW

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

Received Date : May 07, 2025

Test Period : Jun. 24, 2025 ~ Jun. 25, 2025

Issued Date : Jul. 25, 2025

### Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.  
No. 140-1, Changan Street, Bade District,  
Taoyuan City, Taiwan (R.O.C.)  
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330  
Frequency Range: 9 kHz to 325 GHz  
Bade test site :  
Test Firm Registration Number: 226252  
Test Firm Designation Number: TW0010  
Wugu test site :  
Test Firm Registration Number: 191812  
Test Firm Designation Number: TW0034

#### 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 Eurofins E&E Wireless Taiwan Co., Ltd.
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	Description	Revised by
00	Jul. 25, 2025	Initial Issue	Snow Wang

## Verification of Compliance

Applicant : Getac Technology Corporation

Product Name : Wireless Module

Trade Name : Getac

Model Number : AX211NGW

FCC ID : QYLAX211NG

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

Test Result : Complied

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Taiwan Accreditation Foundation accreditation number: 1330



Eurofins E&E Wireless Taiwan Co., Ltd. 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 Eurofins E&E Wireless Taiwan Co., Ltd. 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 : \_\_\_\_\_

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## Appendix A. Test Setup Photographs

# 1 General Information

## 1.1. Summary of Test Result

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

Note: No need for verification.

### 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
KDB 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

## 1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.  
Site Address: ☐ No. 140-1, Changan Street, Bade District, Taoyuan City, Taiwan (R.O.C.)  
Site Address: ☒ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

## 1.3. Measurement Uncertainty

Test Item	Frequency	Uncertainty				
		BD		WG		
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB		2.6 dB		
Conducted Output Power		1.1 dB		1.1 dB		
RF Bandwidth		4.5 %		4.5 %		
Power Spectral Density		1.1 dB		1.1 dB		
Duty Cycle		0.3 %		0.3 %		
Test Item	Frequency	Uncertainty				
		96601-BD	96603-BD	96602-WG	96603-WG	96604-WG
Radiated Emission	9 kHz ~ 30 MHz	1.8 dB	1.8 dB	1.9 dB	1.9 dB	1.9 dB
	30 MHz ~ 1000 MHz	4.7 dB	4.7 dB	4.7 dB	4.7 dB	4.5 dB
	1000 MHz ~ 18000 MHz	4.7 dB	4.8 dB	4.6 dB	4.7 dB	5.1 dB
	18000 MHz ~ 26500 MHz	4.0 dB	4.1 dB	3.9 dB	4.1 dB	4.3 dB
	26500 MHz ~ 40000 MHz	4.2 dB	4.2 dB	4.2 dB	4.2 dB	4.6 dB

## 1.4. Test Site Environment

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

(\*)The measurement ambient temperature is within this range.

## 2 EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity(except Max. RF Output Power).

Applicant	Getac Technology Corporation 5F.,Building A,No.209,Sec.1 Nangang.,Rd., Taipei City, 11568, Taiwan			
Product Name	Wireless Module			
Trade Name	Getac			
Model Number	AX211NGW			
FCC ID	QYLAX211NG			
Host Information	Product Name: Tablet Trade Name: Getac Model Name: UX10, UX10G3, UX10-301, UX10-321, UX10-Ex, UX10G5, UX10G5AR, UX10Y(Y= 10 characters, Y can be 0 to 9, A to Z, a to z, "/", "\", "-", "_ " or blank for marketing purpose) (Different model numbers are for market purpose.)			
Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate (ns)
802.11b	2412 ~ 2472	DSSS	20 MHz	Up to 11 Mbps
802.11g	2412 ~ 2472	OFDM	20 MHz	Up to 54 Mbps
802.11n HT20	2412 ~ 2472	OFDM	20 MHz	Up to 144.4 Mbps
802.11n HT40	2422 ~ 2462	OFDM	40 MHz	Up to 300 Mbps
802.11ax HE20	2412 ~ 2472	OFDMA	20 MHz	MCS 11
802.11ax HE40	2422 ~ 2462	OFDMA	40 MHz	MCS 11
Antenna information	ANT	Model Number	Type	Max. Gain (dBi)
	ANT-0 (AUX)	ALF6Y-300000 (422GB9900004)	PIFA Antenna	2.32
	ANT-1 (MAIN)	ALF6Y-100007 (422GB9900003)	PIFA Antenna	2.60
Antenna Delivery	See section 3.1			
Operate Temp. Range	-10 ~ +55 °C			
EUT Power Rating	DC 3.3 V			

Testing Sample No.	
Test Item	Sample Number
Radiation	C255064_A007

EUT Modify Description :

Modify Description:

1. Add host model: UX10G5, UX10G5AR
2. Adds new antennas that meet FCC Part 15 equivalent-type

After replacing the antenna, the Gain is smaller than the Moule report antenna.

After Our evaluation, the retest of Worse Case Above 1 GHz and Simultaneous Transmitter of Spurious Radiated are required.

The other test data refer to the Module report

BW 20M	CH	1	2	3	4	5	6	7	8	9	10	11	12	13
	Freq. (MHz)	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472
BW 40M	CH	NA		3	4	5	6	7	8	9	10	11	NA	
	Freq. (MHz)			2422	2427	2432	2437	2442	2447	2452	2457	2462		



### 3 Test Methodology

#### 3.1. Mode of Operation

Decision of Test Eurofins 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	Final-Test Mode
Transmit Mode	V
802.11n HT40	V

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

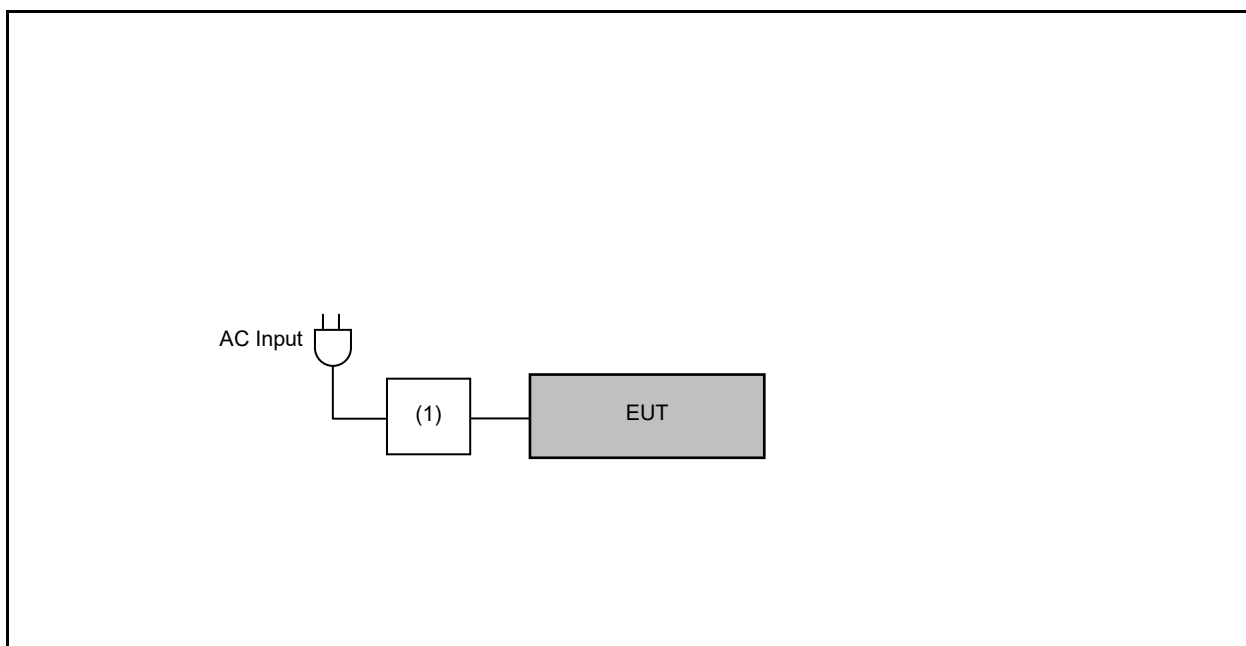
After verification, all tests were carried out with the worst case test modes.

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

### 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.

### 3.3. Configuration of Test System Details



	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	Adapter	FSP	FSP065-RBBN3	---	---

### 3.4. Test Instruments

For Radiated Emissions

Test Period: Jun. 24 ~ Jun. 25, 2025

Testing Engineer: Jason Yeh

Radiation test sites		Semi Anechoic Room 96603-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input checked="" type="checkbox"/>	LOOP Antenna (9 kHz~30 MHz)	Schwarzbeck Mess-Elektronik	FMZB 1513-60	00031	Mar. 06, 2025	1 year
<input checked="" type="checkbox"/>	Trilog Broadband Antenna (30 MHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	1276	Jan. 20, 2025	1 year
<input checked="" type="checkbox"/>	Broadband Horn Antenna (1 GHz~18 GHz)	RF SPIN	DRH18-E	210307A18ES	Dec. 10, 2024	1 year
<input checked="" type="checkbox"/>	Broadband Horn Antenna (15 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	BBHA9170	1133	Nov. 01, 2024	1 year
<input checked="" type="checkbox"/>	Spectrum Analyzer (2 Hz~50 GHz)	KEYSIGHT	N9030B	MY57143537	Mar. 10, 2025	1 year
<input checked="" type="checkbox"/>	Pre-Amplifier	EMCI	EMC001330	980859	Nov. 27, 2024	1 year
<input checked="" type="checkbox"/>	Pre-Amplifier	EMCI	EMC118A45SE	980818	Dec. 12, 2024	1 year
<input checked="" type="checkbox"/>	Pre-Amplifier	EMCI	EMC184045SE	980861	Dec. 18, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (9 kHz~1000 MHz)	EMCI	EMCCFD400-NM-NM-2000	211009	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (9 kHz~1000 MHz)	EMCI	EMCCFD400-NM-NM-2000	211010	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (9 kHz~1000 MHz)	EMCI	EMCCFD400-NM-NM-6000	211018	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM-1000	211029	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM-2000	211033	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM-8000	211038	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (18 GHz~40 GHz)	EMCI	EMC101G-KM-KM-600	211211	Jan. 15, 2025	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (18 GHz~40 GHz)	EMCI	EMC101G-KM-KM-2000	211210	Jan. 15, 2025	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (18 GHz~40 GHz)	EMCI	EMC101G-KM-KM-6000	211209	Jan. 15, 2025	1 year
<input checked="" type="checkbox"/>	Highpass Filter	Warison	WFIL-H3000-20000F	WR4BBFWC2B1	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Highpass Filter	Warison	WFIL-H8000-26000F	001	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Software	R_RAM	V1.3	N/A	N.C.R.	---

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

## 4 Measurement Procedure

### 4.1. Radiated Emission Measurement

#### ■ Limit

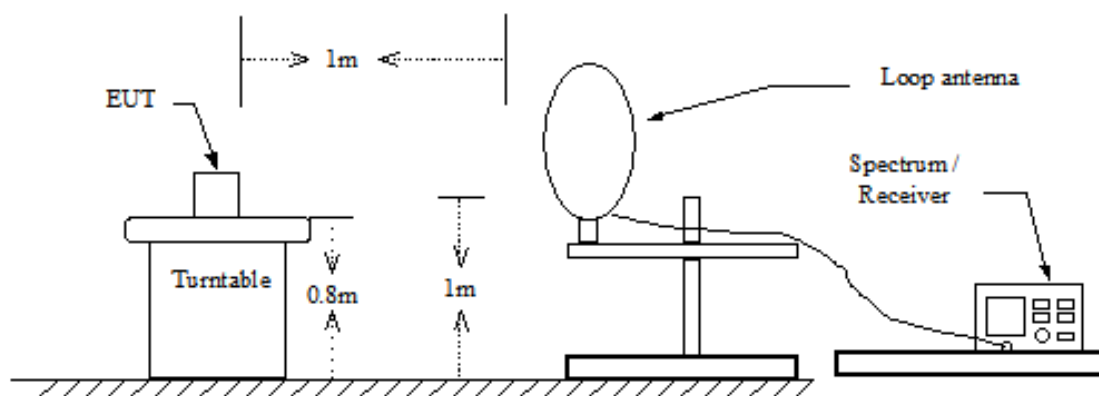
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

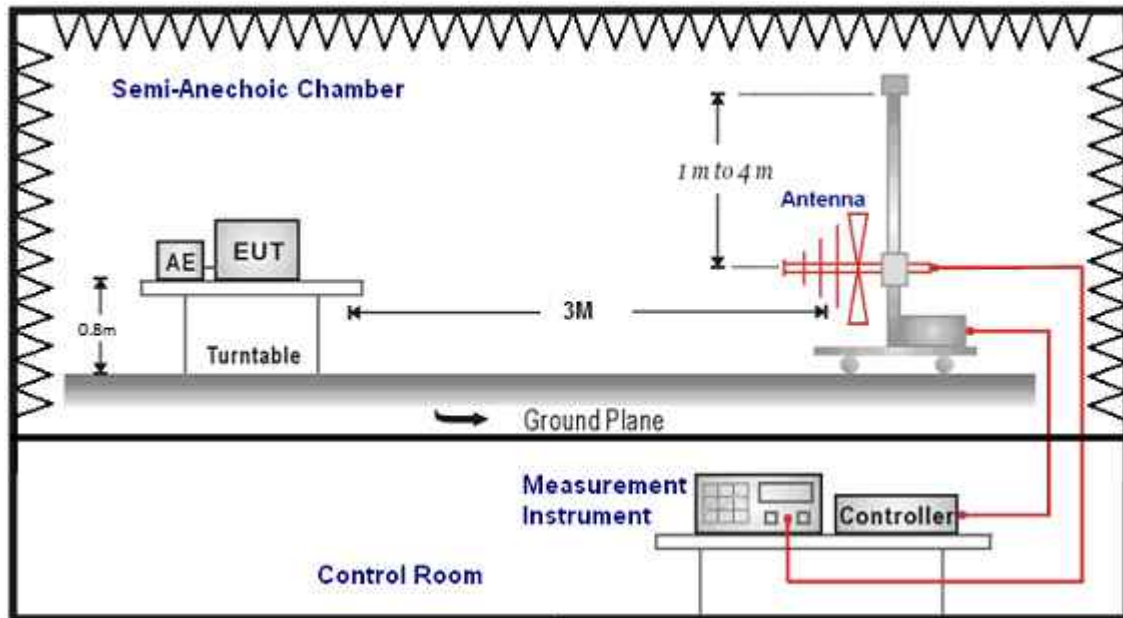
\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

#### ■ Setup

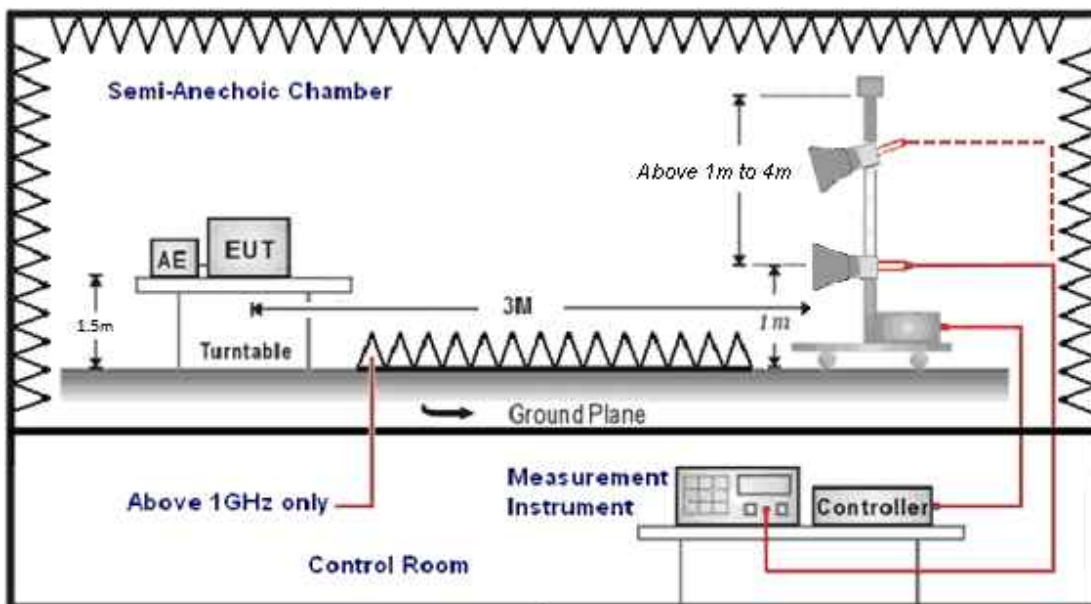
9 kHz ~ 30 MHz



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 30 MHz the resolution bandwidth is set to 10 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements. The video bandwidth is 3 times of the resolution bandwidth.

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 per meter (uV/m).

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

The actual field 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.

## 4.2. Antenna Measurement

### ■ Limit

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

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

### ■ Antenna Description

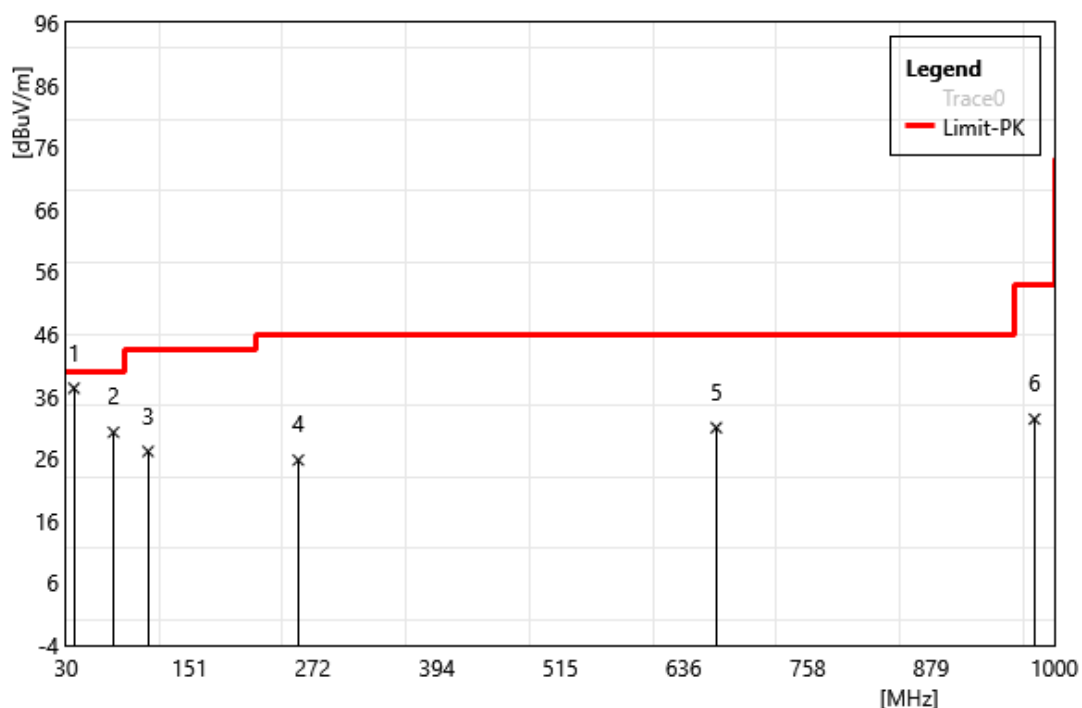
See section 2 – antenna information.

## 5 Test Results

### 5.1. Radiated Emission Measurement

Below 1 GHz

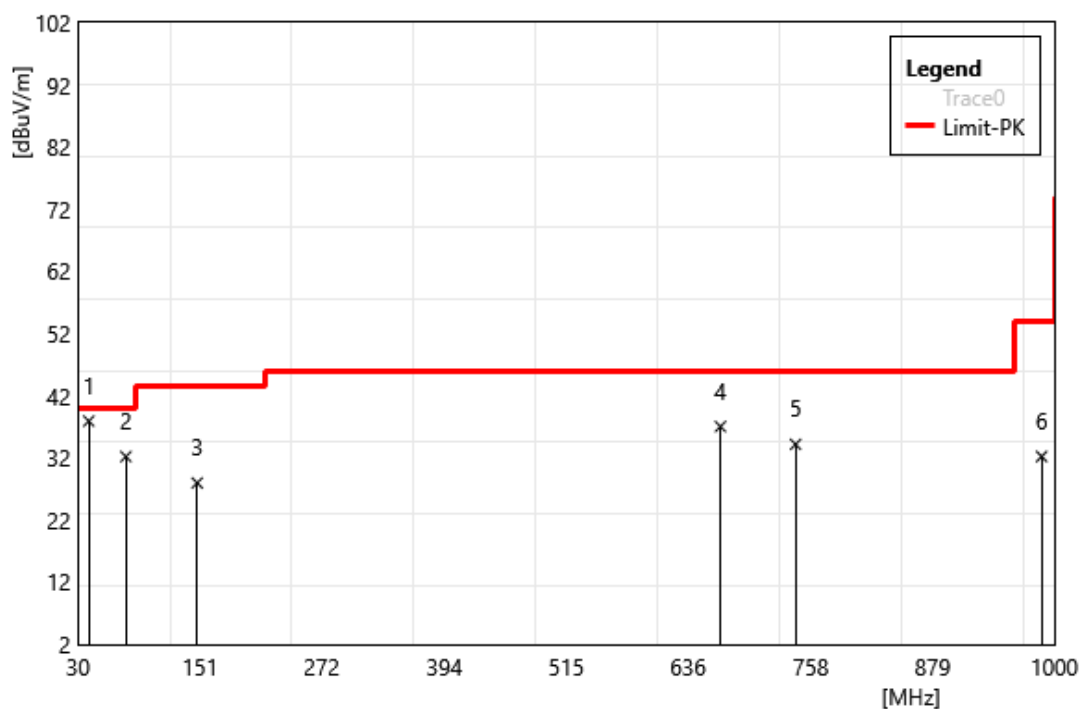
Test Site:	96603 - WG	Standard:	Part 15.247
Test Mode:	Transmit mode		
Polarization:	Horizontal		
Remark:	2.4G		



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	37.76	49.77	-12.48	37.29	40.00	-2.71	QP
2	76.56	45.80	-15.59	30.21	40.00	-9.79	QP
3	110.51	42.13	-14.98	27.15	43.50	-16.35	QP
4	257.95	38.31	-12.56	25.75	46.00	-20.25	QP
5	668.26	34.56	-3.62	30.94	46.00	-15.06	QP
6	980.60	32.23	0.11	32.34	54.00	-21.66	QP



Test Site:	96603 - WG	Standard:	Part 15.247
Test Mode:	Transmit mode		
Polarization:	Vertical		
Remark:	2.4G		

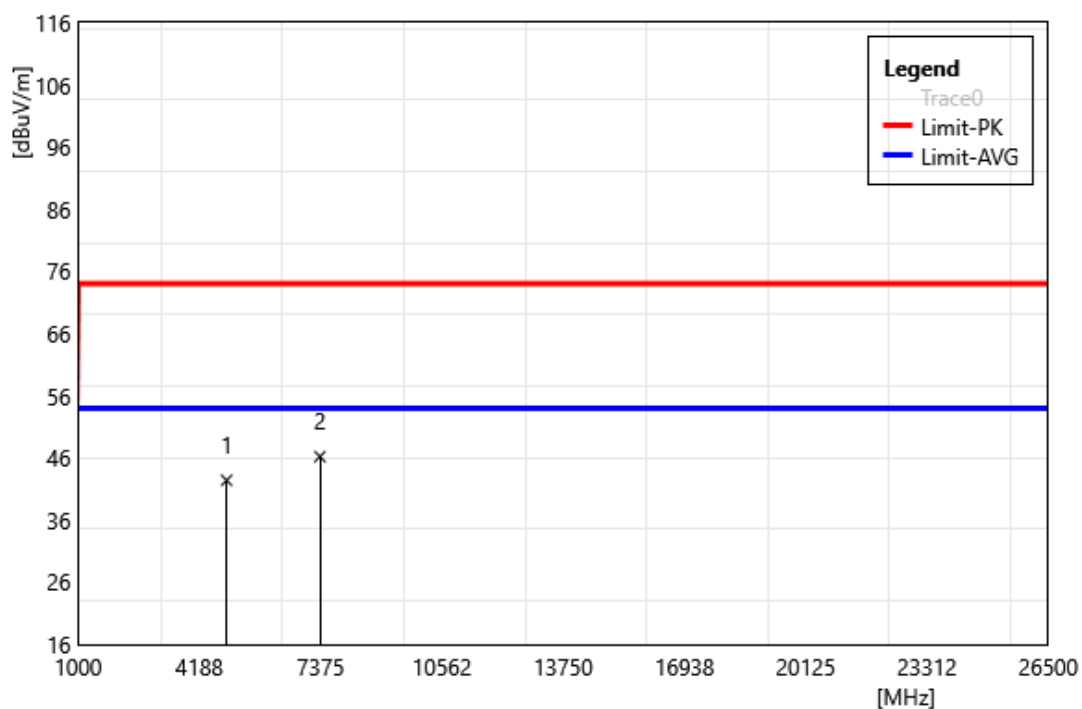


ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	40.67	50.27	-12.35	37.92	40.00	-2.08	QP
2	77.53	48.18	-15.96	32.22	40.00	-7.78	QP
3	148.34	39.78	-11.80	27.98	43.50	-15.53	QP
4	668.26	40.67	-3.62	37.05	46.00	-8.95	QP
5	742.95	36.51	-2.32	34.19	46.00	-11.81	QP
6	987.39	32.06	0.16	32.22	54.00	-21.78	QP

# Harmonic

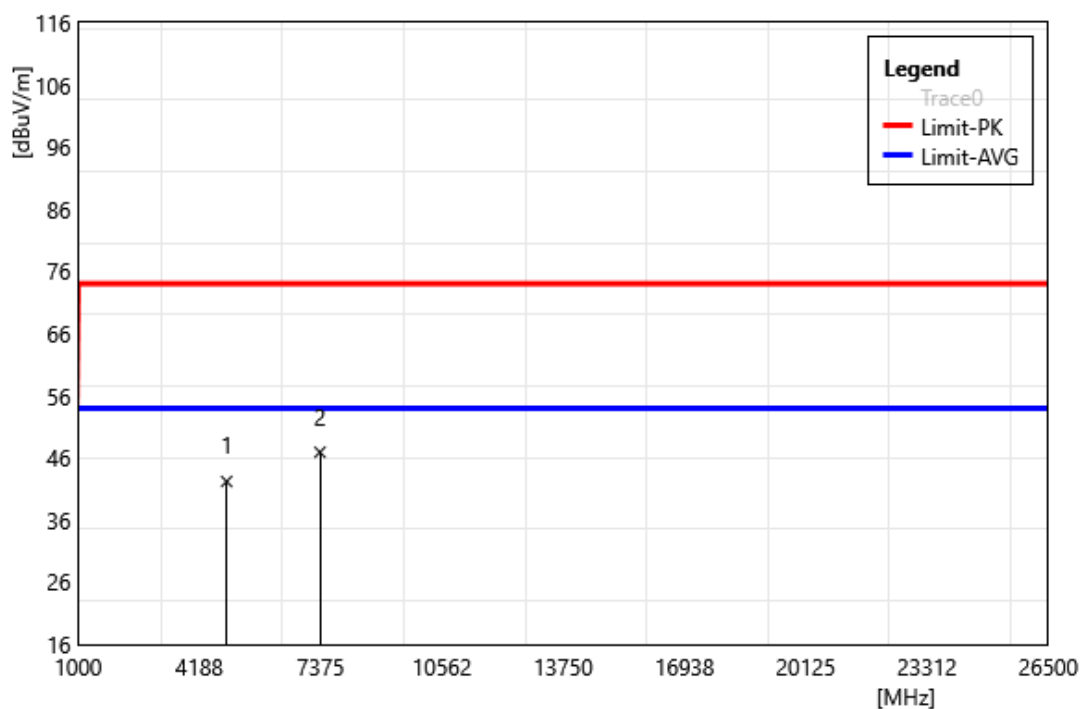
Above 1 GHz

Test Site:	96603 - WG	Standard:	Part 15.247
Test Mode:	802.11n HT40 2452 MHz		
Polarization:	Horizontal		
Remark:			



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	4904.00	39.82	2.58	42.40	74.00	-31.60	PEAK
2	7356.00	38.28	7.92	46.20	74.00	-27.80	PEAK

Test Site:	96603 - WG	Standard:	Part 15.247
Test Mode:	802.11n HT40 2452 MHz		
Polarization:	Vertical		
Remark:			

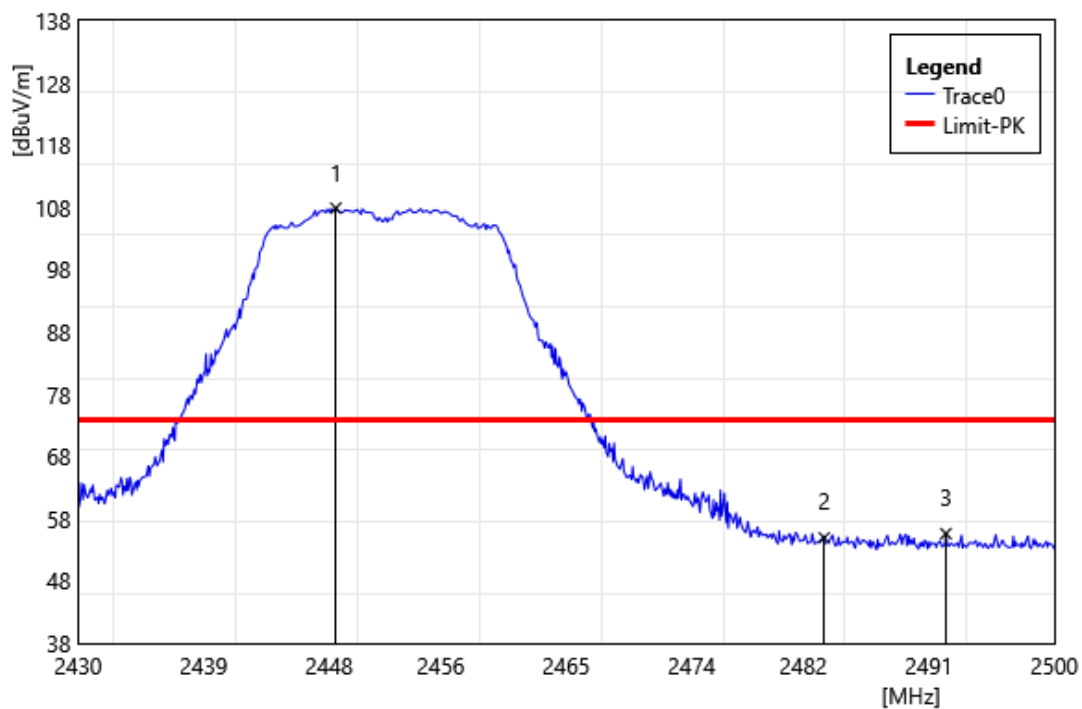


ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	4904.00	39.62	2.58	42.20	74.00	-31.80	PEAK
2	7356.00	38.99	7.92	46.91	74.00	-27.09	PEAK

Band Edge

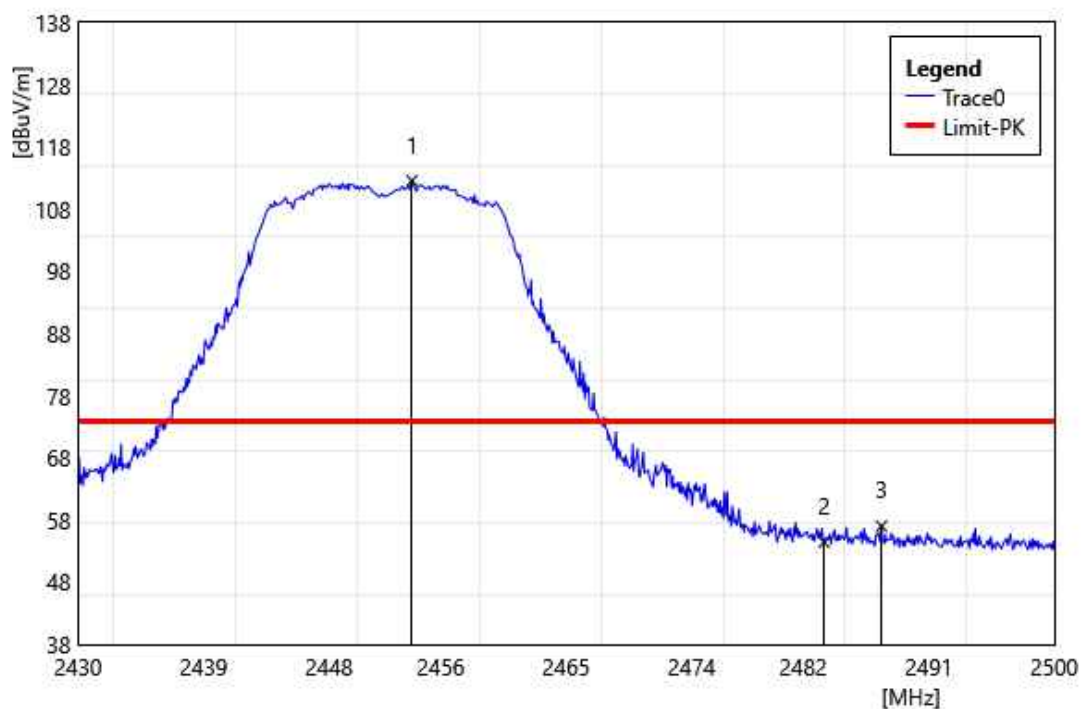
Peak

Test Site:	96603 - WG	Standard:	Part 15.247
Test Mode:	802.11n HT40 2452 MHz		
Polarization:	Horizontal		
Remark:			



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	2448.48	112.23	-4.34	107.89	74.00	33.89	PEAK
2	2483.50	59.19	-4.25	54.94	74.00	-19.06	PEAK
3	2492.23	59.86	-4.24	55.62	74.00	-18.39	PEAK

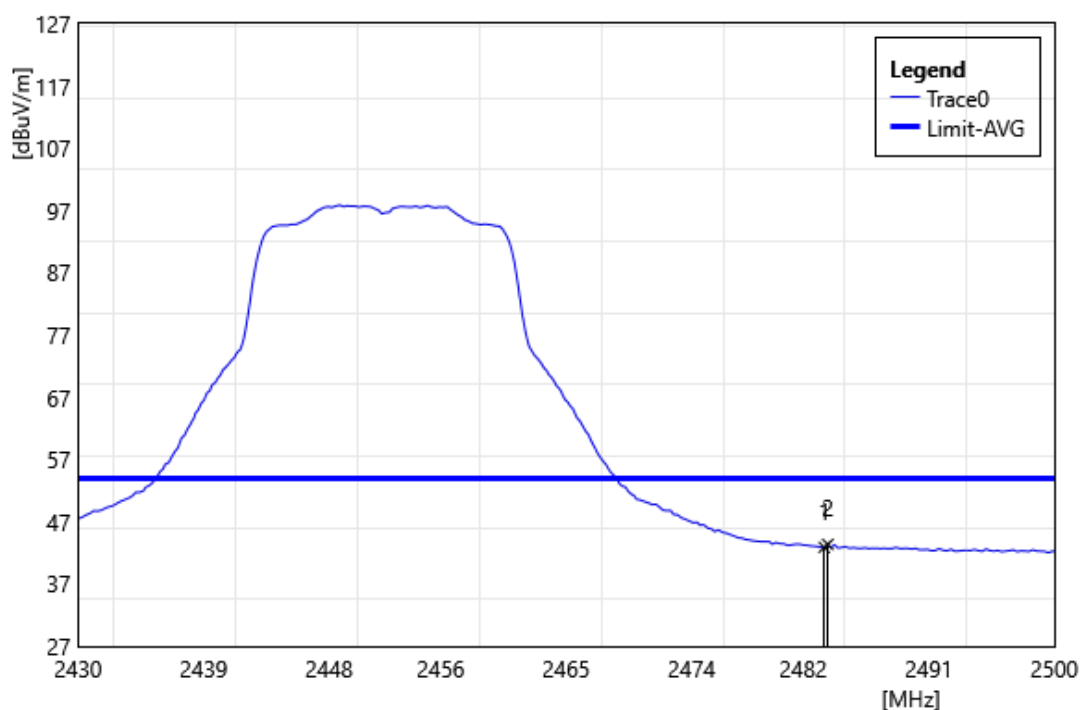
Test Site:	96603 - WG	Standard:	Part 15.247
Test Mode:	802.11n HT40 2452 MHz		
Polarization:	Vertical		
Remark:			



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	2453.94	116.90	-4.32	112.58	74.00	38.58	PEAK
2	2483.50	58.69	-4.25	54.44	74.00	-19.56	PEAK
3	2487.61	61.28	-4.24	57.04	74.00	-16.96	PEAK

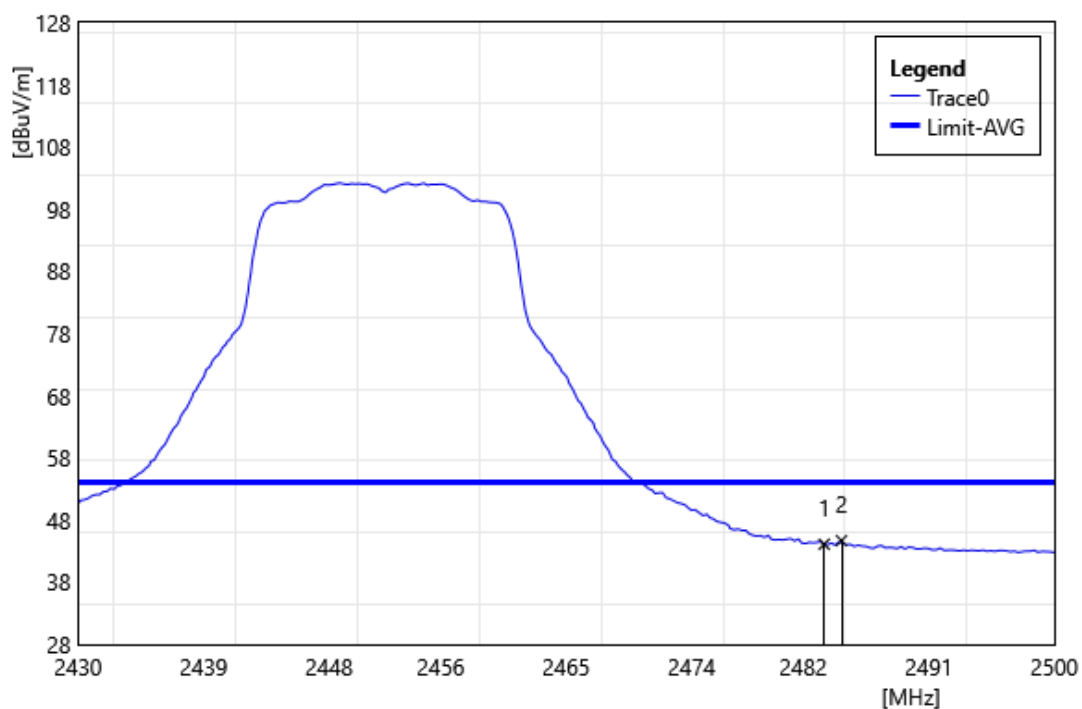
Average

Test Site:	96603 - WG	Standard:	Part 15.247
Test Mode:	802.11n HT40 2452 MHz		
Polarization:	Horizontal		
Remark:			



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	2483.50	47.16	-4.25	42.91	54.00	-11.09	AVG
2	2483.76	47.61	-4.25	43.36	54.00	-10.64	AVG

Test Site:	96603 - WG	Standard:	Part 15.247
Test Mode:	802.11n HT40 2452 MHz		
Polarization:	Vertical		
Remark:			



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	2483.50	48.36	-4.25	44.11	54.00	-9.89	AVG
2	2484.74	48.95	-4.25	44.70	54.00	-9.30	AVG

---END---