Report No.: NTC2005065FV00

FCC ID: PRDMU84



# RADIO TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant : Acrox Technologies Co., Ltd.

Address : 4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan

Manufacturer / Factory : Acrox Technologies Co., Ltd.

Address : Hsinmin Industrial, Changan Town, Dongguan City, Guangdong, China

E.U.T. : Ergonomic Wireless Mouse-DPI adjustable

Brand Name : Acrox, Amazon

Model No. : G6B1-BK, G6B1-PU, G6B1-BL, G6B1-RD, G6B1-SL

(For model difference, refer to section 1)

FCC ID : PRDMU84

Measurement Standard : FCC PART 15.249

Date of Receiver : April 22, 2020

Date of Test : April 22, 2020 to April 30, 2020

Date of Report : May 14, 2020

This Test Report is Issued Under the Authority of :

Prepared by

Rose Hu / Engineer

Approved an Approved Signer

Iori Fan Authorized Signatory

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

TEL: +86-769-22022444 FAX: +86-769-22022799 Web: www.ntc-c.com Address: Building D, Gaosheng Science and Technology park, Hongtu road, Nancheng district, Dongguan city, Guangdong province, China



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# **Revision History of This Test Report**

Report Number	Description	Issued Date
NTC2005065FV00	Initial Issue	2020-05-14

Report No.: NTC2005065FV00

FCC ID: PRDMU84



#### 1. GENERAL INFORMATION

## 1.1 Product Description for Equipment under Test

Product Name : Ergonomic Wireless Mouse-DPI adjustable

Main model number : G6B1-BK

Additional Model

number

: G6B1-PU, G6B1-BL, G6B1-RD, G6B1-SL

Brand Name : Acrox, Amazon

Power Supply : DC 1.5V From AA battery

Test Voltage : DC 1.5V From AA battery

Model Difference

Description

: These models have the same circuit schematic, construction, PCB Layout and critical components.

Their difference in model number and color due to

trading purpose.

Hardware version : V1.0

Software version : V1.0

Note : N/A

Remark : N/A

#### **Technical Specification:**

#### 2.4G Function:

Frequency Range : 2402~2480MHz

Modulation Type : GFSK Number of Channel : 40

Channel space : 2MHz

Antenna Type : PCB

Antenna Gain : 0.9dBi (Declaration by manufacturer)

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## **Channel List:**

Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2402	15	2430	29	2458
2	2404	16	2432	30	2460
3	2406	17	2434	31	2462
4	2408	18	2436	32	2464
5	2410	19	2438	33	2466
6	2412	20	2440	34	2468
7	2414	21	2442	35	2470
8	2416	22	2444	36	2472
9	2418	23	2446	37	2474
10	2420	24	2448	38	2476
11	2422	25	2450	39	2478
12	2424	26	2452	40	2480
13	2426	27	2454		
14	2428	28	2456		

**Note:** The Lowest, middle, and the Highest frequency of channel were selected to perform the test. The frequency selected see below:

The Lowest frequency: 2402MHz The middle frequency: 2440MHz The Highest frequency: 2480MHz

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## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **PRDMU84** filing to comply with Section 15.249 of the FCC Part 15 (2017), Subpart C Rule.

### 1.3 Test Methodology

Rradiated emission measurements performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

### 1.4 Equipment Modifications

Not available for this EUT intended for grant.

#### 1.5 Support Device

N/A

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## 1.6 Test Facility and Location

Site Description

EMC Lab : Listed by CNAS, August 13, 2018

The certificate is valid until August 13, 2024

The Laboratory has been assessed and proved to

be in compliance with CNAS/CL01

The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017

The certificate is valid until December 31, 2021 The Laboratory has been assessed and proved to

be in compliance with ISO17025

The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017
The Designation Number is CN1214
Test Firm Registration Number: 907417

Listed by Industry Canada, June 08, 2017 The Certificate Registration Number. Is

46405-9743

Name of Firm : Dongguan Nore Testing Center Co., Ltd.

(Dongguan NTC Co., Ltd.)

Site Location : Building D, Gaosheng Science and Technology

park, Hongtu road, Nancheng district, Dongguan

city, Guangdong province, China

#### 1.7 Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

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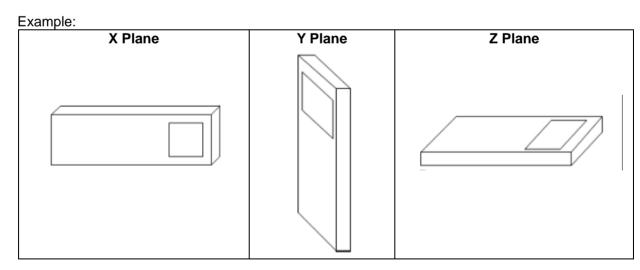


## 1.8 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result
§15.207(a)	AC Power Conducted Emission	±1.06dB	Not Applicable
§15.249(a)/ 15.209	Radiated Emissions	Below 1GHz: ±4.6 dB Above 1GHz: ±5.02 dB	Compliant
§15.249(d)/ 15.205	Band Edge	±1.70dB	Compliant
§15.215(c)	20dB Bandwidth	±1.42 x10-4%	Compliant
§15.203	Antenna Requirement	±0.60dB	Compliant

#### Note:

- 1. The EUT has been tested as an independent unit. And continual transmitting in maximum power (New batteries were used during test)
- 2. AC Power Conducted Emission is not applicable due to the EUT only can be powered by battery.
- 3. The EUT is a portable device and can be operated in multiple orientations, so X,Y,Z three orientations are tested during preliminary measurement. The worst case was Z.



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# 2. System Test Configuration

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 Special Accessories

Not available for this EUT intended for grant.

### 2.3 Description of test modes

The EUT has been tested under operating condition. The Lowest, middle and highest frequencies were chosen for testing.

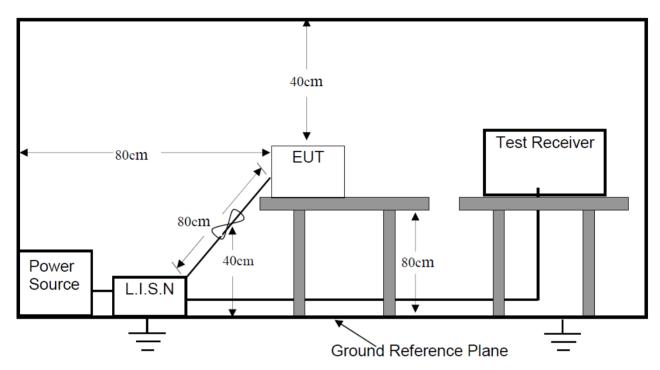
#### 2.4 EUT Exercise

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.



## 3. Conducted Emissions Test

# 3.1 Test SET-UP (Block Diagram of Configuration)



### 3.2 Test Condition

**Test Requirement: FCC Part 15.207** 

Frequency Range: 150KHz ~ 30MHz

Detector: RBW 9KHz, VBW 30KHz

**Operation Mode: TX** 

#### 3.3 Measurement Results

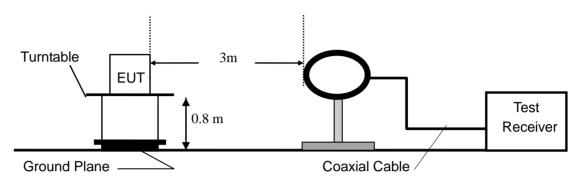
Not Applicable.

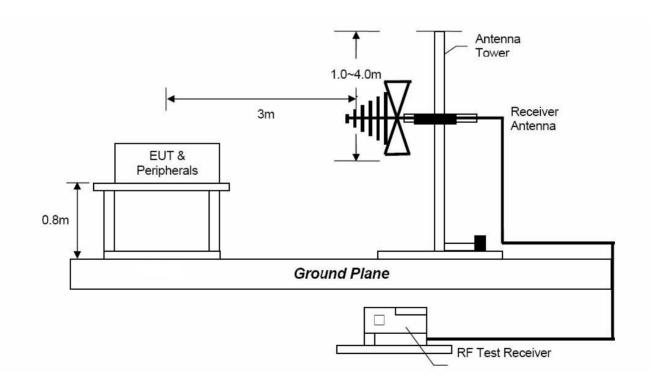


## 4. Radiated Emission Test

## 4.1 Test SET-UP (Block Diagram of Configuration)

4.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz



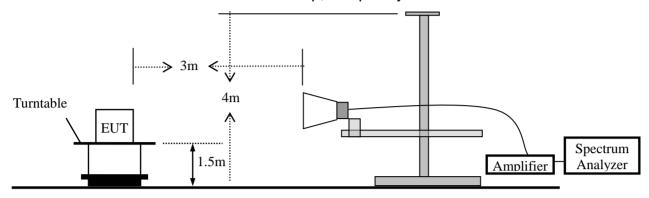


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## 4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



#### **4.2 Measurement Procedure**

- a. Blow 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:
  - The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

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During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
Above 1000	Average	1 MHz	10 Hz

#### 4.3 Limit

Frequency range	Distance Meters	Field Strengths	Limit (15.209)
MHz		$\mu V_{\ell}$	/m
0.009 ~ 0.490	300	2400/F	(kHz)
0.490 ~ 1.705	30	24000/	F(kHz)
1.705 ~ 30	30	30	)
30 ~ 88	3	10	0
88 ~ 216	3	15	0
216 ~ 960	3	20	0
Above 960	3	50	0
Frequency range	Distance Meters	Field Strengths	Limit (15.249)
MHz		mV/m	μV/m
		(Field strength of	(Field strength of
		fundamental)	Harmonics)
902 ~ 928	3	50	500
2400 ~ 2483.5	3	50	500
5725 ~ 5875	3	50	500
24000 ~ 2425000	3	250	2500

Remark: (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) As shown in 15.35(b), for frequencies above 1000MHz, 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 20dB under any condition of modulation.
- (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

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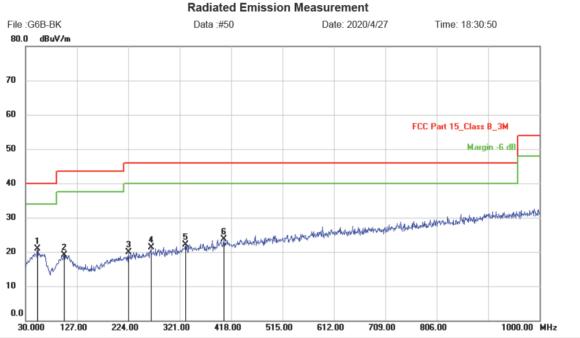
#### 4.4 Measurement Results

Please refer to following the test plots of the worst case: (Low channel).



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Web: Http://www.ntc-c.com



	0.0	.000	127.	.00	224.	00	321.0	00 4	\$18.00	515.	.00	612.00	0 709	.00 806	i.00	1000.00	MHz
Site										Polar	ization:	Н	orizonta	l	Temperatui	re: 26	
Limit:	FC	C Pai	t 15_	Class	B_3	8M				Powe	er: Do	C 1.5\	/		Humidity:	47 %	
EUT:										Dista	nce: 3	m					
M/N: G6B1-BK																	
Mode: TX																	
Note:	Note: EUT:Ergonomic Wireless Mouse-DIP adjustable																

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	52.3100	28.02	-7.17	20.85	40.00	-19.15	QP			
2		102.7500	26.58	-7.52	19.06	43.50	-24.44	QP			
3		224.0000	27.23	-7.23	20.00	46.00	-26.00	QP			
4		266.6800	27.47	-6.07	21.40	46.00	-24.60	QP			
5		331.6700	26.73	-4.60	22.13	46.00	-23.87	QP			
6		404.4200	26.90	-3.26	23.64	46.00	-22.36	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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Temperature:

Humidity:

26

47 %



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#### **Radiated Emission Measurement** File: G6B-BK Data :#51 Date: 2020/4/27 Time: 18:35:05 80.0 dBuV/m 70 60 FCC Part 15\_Class B\_3M 50 Margin -6 dB 40 with the second of the second 30 20 10 0.0 1000.00 MHz 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 30.000

Polarization:

Distance: 3m

Power:

Vertical

DC 1.5V

Limit: FCC Part 15\_Class B\_3M

EUT: M/N: G6B1-BK

Mode: TX

Site

Note: EUT:Ergonomic Wireless Mouse-DIP adjustable

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	42.6100	27.46	-7.72	19.74	40.00	-20.26	QP			
2		94.0199	27.58	-9.46	18.12	43.50	-25.38	QP			
3		195.8700	26.79	-8.90	17.89	43.50	-25.61	QP			
4		290.9300	27.34	-6.71	20.63	46.00	-25.37	QP			
5		318.0900	27.21	-6.03	21.18	46.00	-24.82	QP			
6		354.9500	26.33	-5.08	21.25	46.00	-24.75	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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Frequency Range: 1-25GHz Test Date: 2020-4-27

Test Result: PASS Temperature : 21  $^{\circ}$ C Measured Distance: 3m Humidity : 55  $^{\circ}$ 

Test By: Sance

Freq. (MHz)	Ant.Pol. (H/V)	Rea Level(	•	Factor (dB/m)	Emissio (dBı		Limit (dBu\			rgin B)	
(IVII IZ)	(11/7)	PK	AV	(ub/iii)	PK	AV	PK	AV	PK	AV	
	Operation Mode: TX Mode (Low)										
2402	V	67.94	30.74	0.13	68.07	30.87	114.00	94.00	-45.93	-63.13	
4804	V	50.96	13.76	6.30	57.26	20.06	74.00	54.00	-16.74	-33.94	
7206	V	45.16	7.96	10.44	55.60	18.40	74.00	54.00	-18.40	-35.60	
2402	Н	80.16	42.96	0.13	80.29	43.09	114.00	94.00	-33.71	-50.91	
4804	Н	54.24	17.04	6.30	60.54	23.34	74.00	54.00	-13.46	-30.66	
7206	Н	45.75	8.55	10.44	56.19	18.99	74.00	54.00	-17.81	-35.01	
Operation Mode: TX Mode (Mid)											
2440	V	66.07	30.77	0.23	66.30	31.00	114.00	94.00	-47.70	-63.00	
4880	V	50.95	13.75	6.60	57.55	20.35	74.00	54.00	-16.45	-33.65	
7320	V	44.95	7.75	10.55	55.50	18.30	74.00	54.00	-18.50	-35.70	
2440	Н	70.52	40.83	0.23	70.75	41.06	114.00	94.00	-43.25	-52.94	
4880	Н	54.08	16.88	6.60	60.68	23.48	74.00	54.00	-13.32	-30.52	
7320	Н	45.56	8.36	10.55	56.11	18.91	74.00	54.00	-17.89	-35.09	
			Ope	ration Mo	ode: TX N	lode (Hi	gh)				
2480	V	64.34	27.14	0.34	64.68	27.48	114.00	94.00	-49.32	-66.52	
4960	V	51.05	13.85	6.89	57.94	20.74	74.00	54.00	-16.06	-33.26	
7440	V	46.04	8.84	10.60	56.64	19.44	74.00	54.00	-17.36	-34.56	
2480	Н	79.64	42.44	0.34	79.98	42.78	114.00	94.00	-34.02	-51.22	
4960	Н	53.55	16.35	6.89	60.44	23.24	74.00	54.00	-13.56	-30.76	
7440	Н	46.07	8.87	10.60	56.67	19.47	74.00	54.00	-17.33	-34.53	

Note: (1) All Readings are Peak Value and AV.

- (2) Emission Level= Reading Level + Factor
- (3) Factor= Antenna Gain + Cable Loss Amplifier Gain
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
- (5) Horn antenna used for the emission over 1000MHz.

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## 5. 20dB Bandwidth

#### 5.1 Measurement Procedure

The 20dB bandwidth of the emission was contained within the frequency band designated which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered, FCC Rule 15.215(c):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

## **5.2 Test SET-UP (Block Diagram of Configuration)**

FIIT	Spectrum Analyzer
L01	Spectrum Analyzer

#### 5.3 Measurement Results

Refer to attached data chart.

RBW: 100KHz VBW: 300KHz Spectrum Detector: PK Temperature: 22 ℃ Test By: Sance Humidity: 54 % Test Result: PASS Test Date: 2020-04-28

Channel frequency (MHz)	20dB Down BW(kHz)
2402	1727
2440	1795
2480	1859

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#### **Lowest Channel**



### **Middle Channel**



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# **Highest Channel**



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# 6. Band Edge

#### **6.1 Measurement Procedure**

Same as Radiated Emission Test.

#### 6.2 Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

#### 6.3 Measurement Results

Operation Mode: TX Mode Test Date : 2020-4-27 Temperature : 21  $^{\circ}$ C Humidity : 55  $^{\circ}$ C Test Result: PASS Test By: Sance

Measured Distance: 3m

Freq. (MHz)	Ant.Pol. (H/V)	Reading Level(dBuV)		Factor (dB/m)	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
		PK	AV	(ub/III)	PK	AV	PK	AV	PK	AV
2390.000	Н	46.85	9.65	0.09	46.94	9.74	74.00	54.00	-27.06	-44.26
2390.000	V	49.29	12.09	0.09	49.38	12.18	74.00	54.00	-24.62	-41.82
2483.500	Н	56.46	19.26	0.34	56.80	19.60	74.00	54.00	-17.20	-34.40
2483.500	V	48.51	11.31	0.34	48.85	11.65	74.00	54.00	-25.15	-42.35

Note: (1) Emission Level= Reading Level + Factor

(2) Factor= Antenna Gain + Cable Loss - Amplifier Gain

(3) Horn antenna used for the emission over 1000MHz.

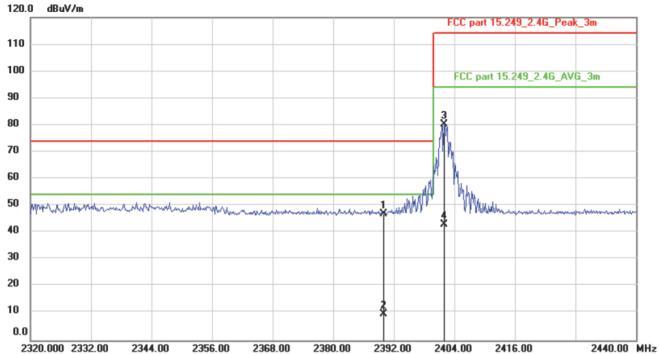
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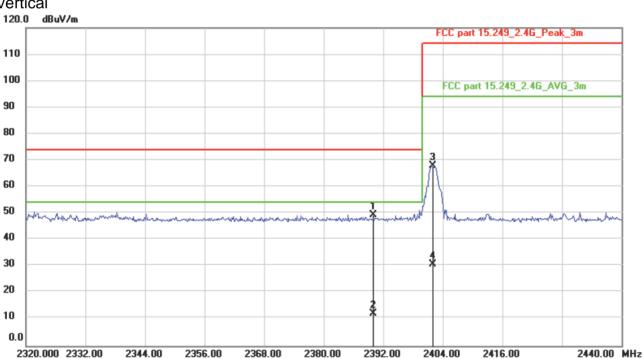


## Low channel





#### Vertical

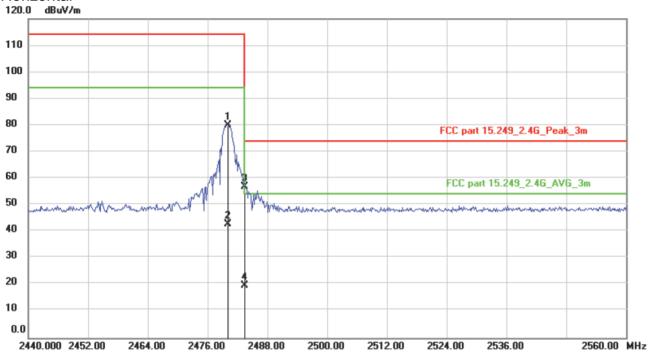


FCC ID: PRDMU84

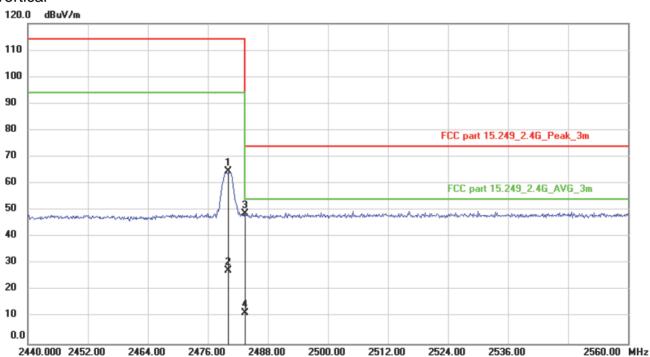


# **High channel**





### Vertical



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NTC Nore Testing Center

# 7. Antenna requirement

#### 7.1 Measurement Procedure

According to of FCC part 15C section 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Systems operating in the 2400-2483.5MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

#### 7.2 Measurement Results

The antenna is PCB antenna and no consideration of replacement, and the best case gain of the antenna is 0.9dBi. So, the antenna is consider meet the requirement.

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# 8. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Mar. 14, 2020	Mar. 13, 2021
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Mar. 23, 2020	Mar. 22, 2021
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Mar. 14, 2020	Mar. 13, 2021
Spectrum Analyzer	I KAVSIANT		MY54200831	20Hz~26.5GHz	Apr. 24, 2020	Apr. 23, 2021
Spectrum Analyzer	Rohde & Schwarz	FSV40	101003	10Hz~40GHz	Apr. 24, 2020	Apr. 23, 2021
Horn Antenna	Schwarzbeck	BBHA9170	9170-372	15GHz~40GHz	Mar. 23, 2020	Mar. 22, 2021
Pre-Amplifier	EMCI	EMC 184045	980102	18GHz~40GHz	Apr. 24, 2020	Apr. 23, 2021
Power Sensor	DARE	RPR3006W	15I00041SN O64	100MHz~6GHz	Mar. 14, 2020	Mar. 13, 2021
Communication Tester	Rohde & Schwarz	CMW500	149004	70MHz~6GHz	Mar. 14, 2020	Mar. 13, 2021
Horn Antenna	COM-Power	AH-118	071078	500MHz~18GHz	Mar. 23, 2020	Mar. 22, 2021
Pre-Amplifier	HP	HP 8449B	3008A00964	1GHz~26.5GHz	Mar. 14, 2020	Mar. 13, 2021
Pre-Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Mar. 14, 2020	Mar. 13, 2021
Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	9KHz~30MHz	Apr. 24, 2020	Apr. 23, 2021
Temperature & Humidity Chamber	REMAFEE	SYHR225L	N/A	-40~150℃	Apr. 24, 2020	Apr. 23, 2021
DC Source	MY	MY8811	N/A	0~30V	N/A	N/A
Temporary antenna TESCOM connector		SS402	N/A	9KHz~25GHz	N/A	N/A
Power Meter	ver Meter Anritsu		1139001	100k-65GHz	Apr. 24, 2020	Apr. 23, 2021
Power Sensor Anritsu		MA2411B	100345	300M-40GHz	Apr. 24, 2020	Apr. 23, 2021
Test Software EZ		EZ_EMC	N/A	N/A	N/A	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connecstor is listed in the equipment list.