

FCC PART 15 SUBPART C MEASURMENT AND TEST REPORT

For

Acrox Technologies Co., Ltd.

4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C

E.U.T.: WIRELESS MOUSE

Model Name: G5L, ONB15HO201, ONA17HO043, ONA17HO044, ONA17HO045, ONB17HO002, ONB17HO003, ONB17HO004, ONB17HO005, ONB17HO006

Brand Name: Acrox, onn

FCC ID: PRDMU47

Report Number: NTC1706116FV00

Test Date(s): June 15, 2017 to July 10, 2017

Report Date(s): July 10, 2017

Prepared by

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Approved & Authorized Signer

Note: This test report is for the customer shown above and their specific product only. It may not be duplicated or used in part without prior written consent from Dongguan NTC Co., Ltd. The test results referenced from this report are relevant only to the sample tested.



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Revision History of This Test Report

Report Number	Description	Issued Date
NTC1706116FV00	Initial Issue	2017-07-10



1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

This device is a WIRELESS MOUSE, it's powered by 2 * 1.5V AAA battery. For more details features, please refer to User's Manual.

Manufacturer	:	Acrox Technologies Co., Ltd.
Address	:	Hsinmin Industrial, Changan Town, Dongguan City, Guangdong, China
Frequency range:	:	2404-2478MHz
Modulation	:	GFSK
Number of Channel	:	20
Antenna Type	:	PCB
Antenna Gain	:	-1dBi (declaration by manufacturer)
Power Supply	:	2* 1.5V AAA Battery)
Model name	:	G5L, ONB15HO201, ONA17HO043, ONA17HO044, ONA17HO045, ONB17HO002, ONB17HO003, ONB17HO004, ONB17HO005, ONB17HO006
Model Difference Description	:	These models have the same circuit schematic, construction and critical components except model number and appearance due to marketing purpose.
Note:	:	N/A



Channel	1	2	3	4	5
Frequency(MHz)	2404	2414	2478	2408	2454
Channel	6	7	8	9	10
Frequency(MHz)	2406	2456	2410	2405	2474
Channel	11	12	13	14	15
Frequency(MHz)	2425	2450	2470	2458	2477
Channel	16	17	18	19	20
Frequency(MHz)	2452	2460	2435	2466	2441

Channel List:

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

The Lowest frequency: 2404MHz The middle frequency: 2441MHz The Highest frequency: 2478MHz



1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: PRDMU47 filing to comply with Section 15.249 of the FCC Part 15 (2014), Subpart C Rule.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were 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

1.6 Test Facility and Location

Listed by FCC, July 03, 2014 The Certificate Registration Number is 665078. Listed by Industry Canada, June 18, 2014 The Certificate Registration Number is 9743A.

Dongguan NTC Co., Ltd. (Full Name: Dongguan Nore Testing Center Co., Ltd.)

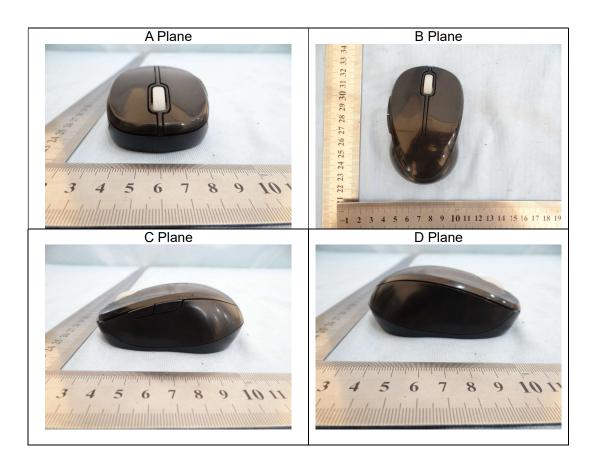
Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong, China (Full Name: Building D, Gaosheng Science & Technology Park, Zhouxi Longxi Road, Nancheng District, Dongguan, Guangdong, China.



1.7 Summary of Test Results

FCC Rules	Description Of Test	Result
§15.249(a)/ 15.209	Radiated Emissions	Compliant
§15.249(d)/ 15.205	Band Edge	Compliant
§15.215(c)	20dB Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

- Note: 1. The EUT has been tested as an independent unit. (The new battery was used during th test.)
 - 2. The ÉUT powered by battery and operating multiple positions, so the EUT shall be performed four planes. The worst plane is B.





2. System Test Configuration

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

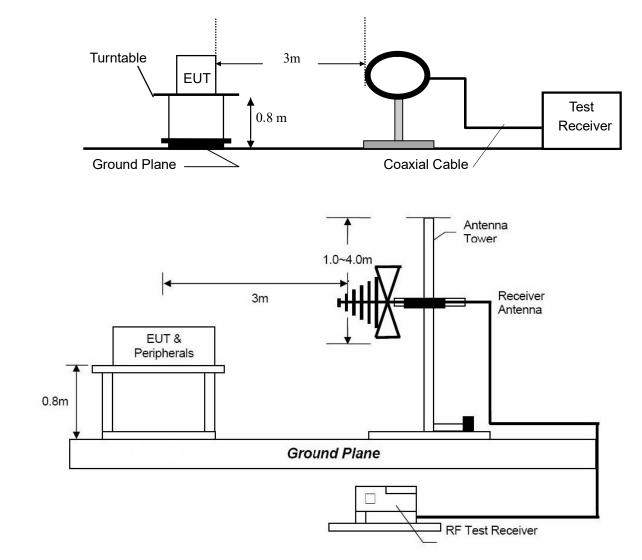
The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.



3. Radiated Emission Test

3.1 Test SET-UP (Block Diagram of Configuration)

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





3.2 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. Above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi- anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

For 30MHz to 1GHz: Sept the spectrum analyzer as: RBW=120kHz, VBW=300kHz, Detector=Quasi-Peak

For Above 1GHz: Set the spectrum analyzer as: RBW=1MHz, VBW=3MHz, Detector=Peak. Set the spectrum analyzer as: RBW=1MHz, VBW=10Hz, Detector=Peak.



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

3.3 Limit

Frequency range	Distance Meters	Field Strengths	Limit (15.209)	
MHz		μV/m		
0.009 ~ 0.490	300	2400/F(kHz)		
0.490 ~ 1.705	30	24000/	F(kHz)	
1.705 ~ 30	30	30	0	
30 ~ 88	3	10	0	
⁸⁸ ~ 216	3	15	50	
216 ~ 960	3	200		
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) Harmonic		
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) μ V = 20 log Emission level μ 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.



3.4 Measurement Results

Please refer to following the test plots and data tables. Below 1GHz, only the worst case Low channel was recorded:.



			/w.ntc-c.co	24			Test	Time: 201	7-6-29	15:	:02:18	
	80.0 dBu¥/m											
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								FCC	Part 15_Cla			
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	40											
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	1 miles	in prosent bight showing	ANA-ADDINA									
	WW											
	0.0											
		0 224.0	0 221.00	410.00	515.00		700	00 04	00		1000.00	
	30.000 127.0	0 224.00	0 321.00	418.00	515.00	612.00	0 709.	00 80)6.00		1000.00 MH	z
	30.000 127.0 No.: G5L			418.00	515.00	612.00			16.00		1000.00 MH	z
est St	30.000 127.0 No.: G5L andard: FC0	C Part 15_Cla		418.00	515.00	612.00	Test D)istance:				z
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est St est ite pplica roduc	30.000 127.0 No.: G5L andard: FCC em: Radiation ant: Acrox et: WIRELESS	C Part 15_Cla n Emission		418.00	515.00	612.00	Test D Ant. P Temp. Power	Distance: rolarization .(C)/Hum.(n: Ho %):	21(C)	tal	z
est St est ite pplica roduc lodel l	30.000 127.0 No.: G5L andard: FCC em: Radiation ant: Acrox et: WIRELESS No.: G5L	C Part 15_Cla n Emission		418.00	515.00	612.00	Test D Ant. P Temp. Power	Distance: olarization .(C)/Hum.(r Rating:	n: Ho %): DC 3V	21(C)	tal	z
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rest St rest ite Applica Product Model I No. 1 2 3 4	30.000 127.0 No.: G5L andard: FCC em: Radiation ant: Acrox et: WIRELESS No.: G5L Iode: TX rk: Frequency (MHz) 107.5999 199.7500 276.3798 385.0199	C Part 15_Cla n Emission MOUSE Factor (dB/m) -12.06 -13.43 -11.06 -9.18	Reading (dBuV) 28.76 31.33 29.97 31.23	Level (dBuV/m) 16.70 17.90 18.91 22.05	Limit (dBuV/m) 43.50 43.50 46.00 46.00	Margin (dB) -26.80 -25.60 -27.09 -23.95	Test D Ant. P Temp. Power Test E Detector QP QP QP QP QP QP	Distance: olarization .(C)/Hum.(r Rating: Engineer: Height	n: Ho %): DC 3V Stan Azimuth	21(C) P/F P P P	tal) / 55 %	z

5

6

271.5298

312.2699

-13.15

-12.13

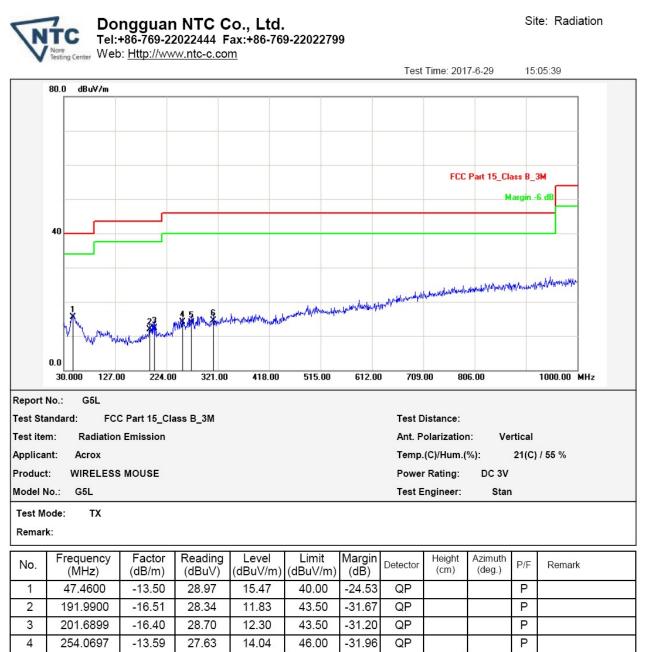
27.10

26.68

13.95

14.55





-32.05

-31.45

46.00

46.00

QP

QP

Ρ

Ρ



Frequency Test Result Measured I Test By:	:	1-25GHz PASS 3m Sance	Te	est Date : emperature umidity :			
Freq.	Ant.Pol.	Emission L	evel(dBuV)	Limit 3m	(dBuV/m)	Margi	n(dB)
(MHz)	H/V	PK	ÂV	PK	AV	PK	ÂV
		Opera	tion Mode:	TX Mode	(Low)		
2404	V	81.06	66.85	114.00	94.00	-32.94	-27.15
4808	V	60.29	49.54	74.00	54.00	-13.71	-4.46
7212	V	60.50	47.28	74.00	54.00	-13.50	-6.72
2404	Н	90.27	74.33	114.00	94.00	-23.73	-19.67
4808	Н	58.82	47.97	74.00	54.00	-15.18	-6.03
7212	Н	60.16	46.13	74.00	54.00	-13.84	-7.87
		Opera	ation Mode:	TX Mode	(Mid)		
2441	V	88.32	72.01	114.00	94.00	-25.68	-21.99
4882	V	58.83	48.18	74.00	54.00	-15.17	-5.82
7323	V	60.92	47.15	74.00	54.00	-13.08	-6.85
2441	Н	81.05	65.12	114.00	94.00	-32.95	-28.88
4882	Н	61.57	51.24	74.00	54.00	-12.43	-2.76
7323	Н	61.12	46.75	74.00	54.00	-12.88	-7.25
		Opera	tion Mode:	TX Mode ((High)		
2478	V	81.02	64.96	114.00	94.00	-32.98	-29.04
4956	V	63.20	45.55	74.00	54.00	-10.80	-8.45
7434	V	61.43	47.78	74.00	54.00	-12.57	-6.22
2478	Н	88.65	72.04	114.00	94.00	-25.35	-21.96
4956	Н	62.15	46.74	74.00	54.00	-11.85	-7.26
7434	Н	61.20	48.20	74.00	54.00	-12.80	-5.80

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) Measurement uncertainty : ±3.7dB.
- (6) Horn antenna used for the emission over 1000MHz.



4. 20dB Bandwidth

4.1 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.

4.2 Test SET-UP (Block Diagram of Configuration)

FUT	Spectrum Analyzer
201	opeetrum Analyzer

4.3 Measurement Results

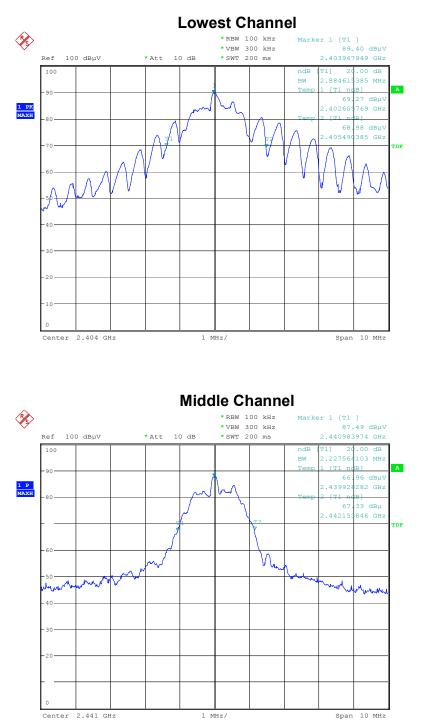
Refer to attached data chart.

RBW:	100KHz	VBW:	300KHz
Spectrum Detector:	PK	Temperature :	23 ℃
Test By:	Sance	Humidity :	54 %
Test Result:	PASS	Test Date :	June 30, 2017

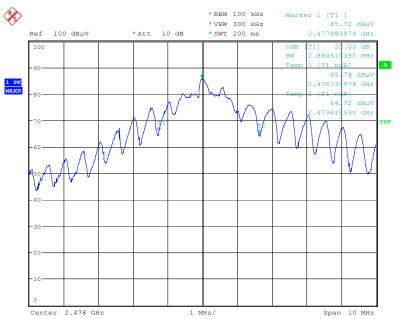
Channel frequency (MHz)	20dB Down BW(kHz)
2404	2885
2441	2228
2478	2885

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Highest Channel



5. Band Edge

5.1 Measurement Procedure

Same as Radiated Emission Test.

5.2 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.

5.3 Measurement Results

Operation Mode:	TX Mode	Test Date :	June 30, 2017
Temperature :	21 °C	Humidity :	55 %
Test Result:	PASS	Test By:	Sance
Measured Distance:	3m	-	

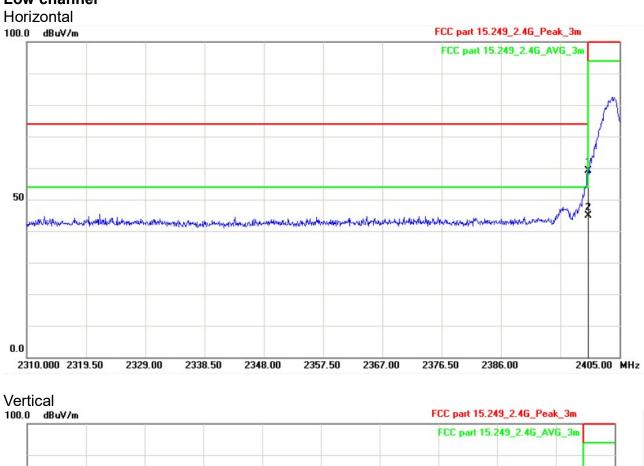
· · · · ·	Ant. Pol.	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
	1 01.	Peak	AV	Peak	AV	Peak	AV
2399.990	Н	58.34	42.33	74.00	54.00	-15.66	-11.67
2399.990	V	61.35	45.07	74.00	54.00	-12.65	-8.93
2483.501	Н	54.59	41.87	74.00	54.00	-19.41	-12.13
2483.501	V	60.87	46.63	74.00	54.00	-13.13	-7.37

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

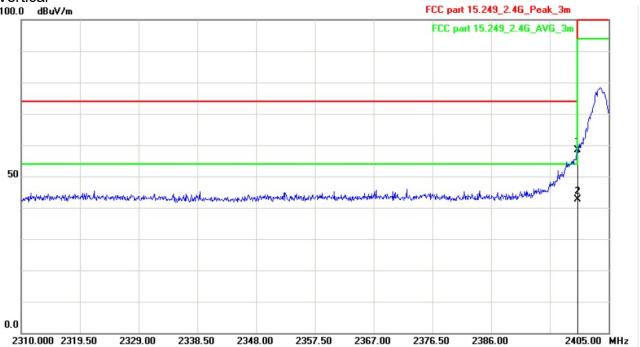
(2) Factor= Antenna Gain + Cable Loss – Amplifier Gain

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



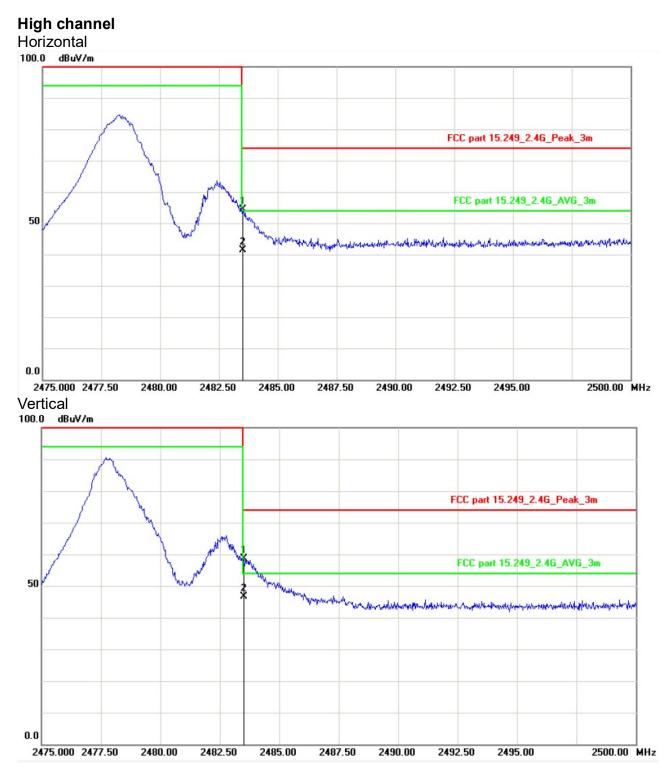


Low channel



Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1706116FV00 FCC ID: PRDMU47







6. Antenna requirement

6.1 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.

6.2 Measurement Results

The antenna is integrated on the main PCB and no consideration of replacement, and the best case gain of the antenna is -1dBi. So, the antenna is consider meet the requirement.



7. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Nov. 23, 2016	Nov. 22, 2017
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Nov. 26, 2016	Nov. 25, 2017
Positioning Controller	UC	UC 3000	N/A	0~360°, 1-4m	N/A	N/A
Color Monitor	SUNSPO	SP-140A	N/A	N/A	N/A	N/A
Single Phase Power Line Filter	SAEMC	PF201A-32	110210	32A	N/A	N/A
3 Phase Power Line Filter	SAEMC	PF401A-200	110318	200A	N/A	N/A
DC Power Filter	SAEMC	PF301A-200	110245	200A	N/A	N/A
Cable	Huber+Suhner	CBL2-NN-1M	22390001	9KHz~7GHz	Nov. 06, 2016	Nov. 05, 2017
Cable	Huber+Suhner	CIL02	N/A	9KHz~7GHz	Nov. 06, 2016	Nov. 05, 2017
RF Cable	Huber+Suhner	SF-104	MY16559/4	9KHz~25GHz	Mar. 06, 2017	Mar. 05, 2018
Power Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Nov. 06, 2016	Nov. 05, 2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-372	15GHz~26.5GHz	Oct.22, 2016	Oct.21, 2017
Horn Antenna	Com-Power	AH-118	071078	1GHz~18GHz	Nov. 04, 2016	Nov. 03, 2017
Loop antenna	Daze	ZA30900A	0708	9KHz~30MHz	Oct.09, 2016	Oct.08, 2017
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Aug. 31, 2016	Aug. 30, 2017
Pre-Amplifier	Agilent	8449B	3008A02964	1GHz~26.5GHz	Nov. 02, 2016	Nov. 01, 2017
L.I.S.N.	Rohde & Schwarz	ENV 216	101317	9KHz~30MHz	Nov. 06, 2016	Nov. 07, 2017
Temporary antenna connector	TESCOM	SS402	N/A	9KHz-25GHz	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 connector is listed in the equipment list.

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