

# TEST REPORT

**Product Name** : WIFI Module  
**Brand Mark** : HUNAN FN-LINK  
**Model No.** : 6189N-SFC  
**FCC ID** : 2AATL-6189N-SFC  
**Report Number** : BLA-EMC-202012-A9501  
**Date of Sample Receipt** : 2020/12/28  
**Date of Test** : 2021/1/5 to 2021/1/16  
**Date of Issue** : 2021/1/16  
**Test Standard** : 47 CFR Part 15, Subpart C 15.247  
**Test Result** : Pass

Prepared for:

**HUNAN FN-LINK TECHNOLOGY LIMITED**

No. 8, Litong Road, Liuyang Economic Development Zone, Liuyang China

Prepared by:

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Date: 2021/1/16



## REPORT REVISE RECORD

Version No.	Date	Description
00	2021/1/16	Original

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## 1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass

## 2 GENERAL INFORMATION

<b>Applicant</b>	HUNAN FN-LINK TECHNOLOGY LIMITED
<b>Address</b>	No. 8, Litong Road, Liuyang Economic Development Zone, Liuyang China
<b>Manufacturer</b>	HUNAN FN-LINK TECHNOLOGY LIMITED
<b>Address</b>	No. 8, Litong Road, Liuyang Economic Development Zone, Liuyang China
<b>Factory</b>	N/A
<b>Address</b>	N/A
<b>Product Name</b>	WIFI Module
<b>Test Model No.</b>	6189N-SFC

## 3 GENERAL DESCRIPTION OF E.U.T.

<b>Hardware Version</b>	1.4
<b>Software Version</b>	1.4
<b>Operation Frequency:</b>	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
<b>Modulation Type:</b>	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
<b>Channel Spacing:</b>	5MHz
<b>Number of Channels:</b>	11for 802.11b/g/n(HT20) /7 for 802.11n(HT40)
<b>Antenna Type:</b>	shrapnel Antenna
<b>Antenna Gain:</b>	2dBi(Provided by customer)

#### 4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	+23°C	3.3Vdc

#### 5 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
TX	Keep the EUT in transmitting mode with modulation (Dutycycle>98%)
Remark: Only the data of the worst mode would be recorded in this report.	

#### 6 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB

## 7 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	HASEE	K610D	N/A	N/A

## 8 LABORATORY LOCATION

All tests were performed at:  
BlueAsia of Technical Services(Shenzhen) Co., Ltd.  
Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province,  
China  
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673  
No tests were sub-contracted.



## 9 TEST INSTRUMENTS LIST

Test Equipment Of Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	2020/11/25	2023/11/24
Receiver	R&S	ESPI3	101082	2020/10/12	2021/10/11
LISN	R&S	ENV216	3560.6550.15	2020/10/12	2021/10/11
LISN	AT	AT166-2	AKK1806000003	2020/10/12	2021/10/11
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

Test Equipment Of Conducted Peak Output Power					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Power Spectrum Density					
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Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of Conducted Band Edges Measurement**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of Conducted Spurious Emissions**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of Radiated Emissions which fall in the restricted bands**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11

Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25
Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

**Test Equipment Of Radiated Spurious Emissions**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25
Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A

Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

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## 1 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

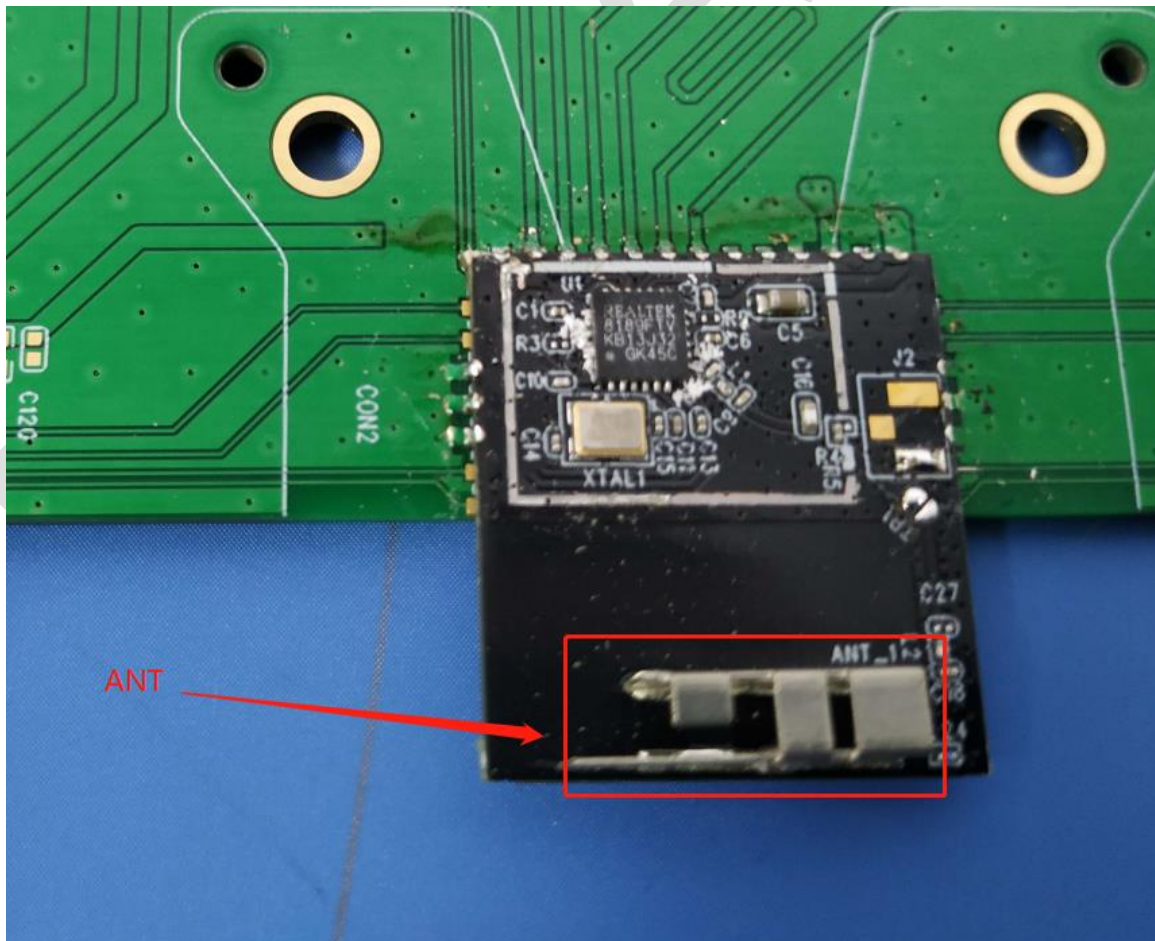
### 1.1 CONCLUSION

Standard Requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.0dBi.



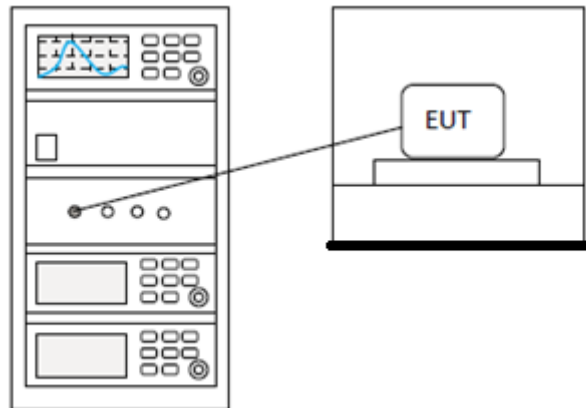
## 2 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	25°C
Humidity	60%

### 2.1 LIMITS

<b>Limit:</b>	≥500 kHz
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### 2.2 BLOCK DIAGRAM OF TEST SETUP



### 2.3 TEST DATA

**Pass: Please Refer To Appendix: For Details**

### 3 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

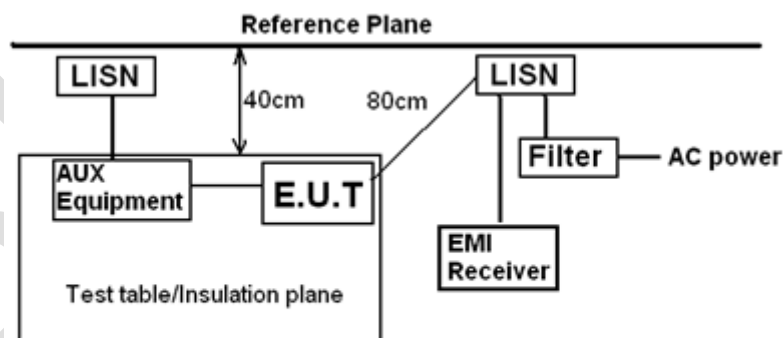
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	25°C
Humidity	60%

#### 3.1 LIMITS

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

#### 3.2 BLOCK DIAGRAM OF TEST SETUP



Remark  
 E.U.T: Equipment Under Test  
 LISN: Line Impedance Stabilization Network  
 Test table height=0.8m

#### 3.3 PROCEDURE

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50?H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

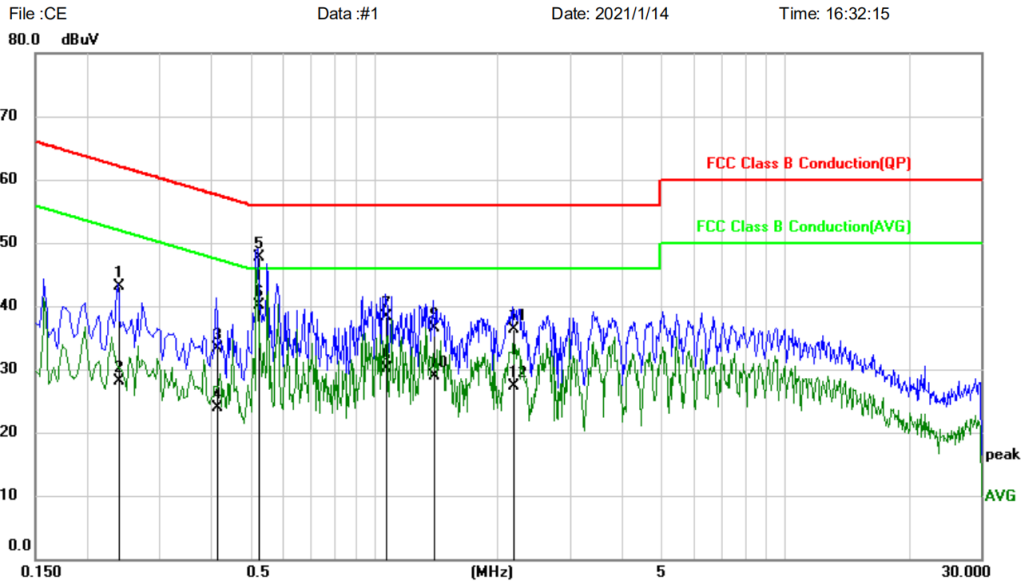
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### 3.4 TEST DATA

[TestMode: TX]; [Line: Line][Power:AC120V/60Hz]

#### Conducted Emission Measurement



Site: \_\_\_\_\_ Phase: **L1** Temperature: \_\_\_\_\_  
 Limit: FCC Class B Conduction(QP) Power: \_\_\_\_\_ Humidity: %  
 EUT: WIFI Module  
 M/N: 6189N-SFC  
 Mode: 2.4G WIFI mode  
 Note: \_\_\_\_\_

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2380	33.17	9.93	43.10	62.17	-19.07	QP	
2		0.2380	18.08	9.93	28.01	52.17	-24.16	AVG	
3		0.4140	23.58	9.68	33.26	57.57	-24.31	QP	
4		0.4140	14.32	9.68	24.00	47.57	-23.57	AVG	
5		0.5220	38.01	9.73	47.74	56.00	-8.26	QP	
6	*	0.5220	30.29	9.73	40.02	46.00	-5.98	AVG	
7		1.0700	28.44	9.86	38.30	56.00	-17.70	QP	
8		1.0700	20.21	9.86	30.07	46.00	-15.93	AVG	
9		1.4020	26.76	9.83	36.59	56.00	-19.41	QP	
10		1.4020	19.02	9.83	28.85	46.00	-17.15	AVG	
11		2.1860	26.49	9.82	36.31	56.00	-19.69	QP	
12		2.1860	17.53	9.82	27.35	46.00	-18.65	AVG	

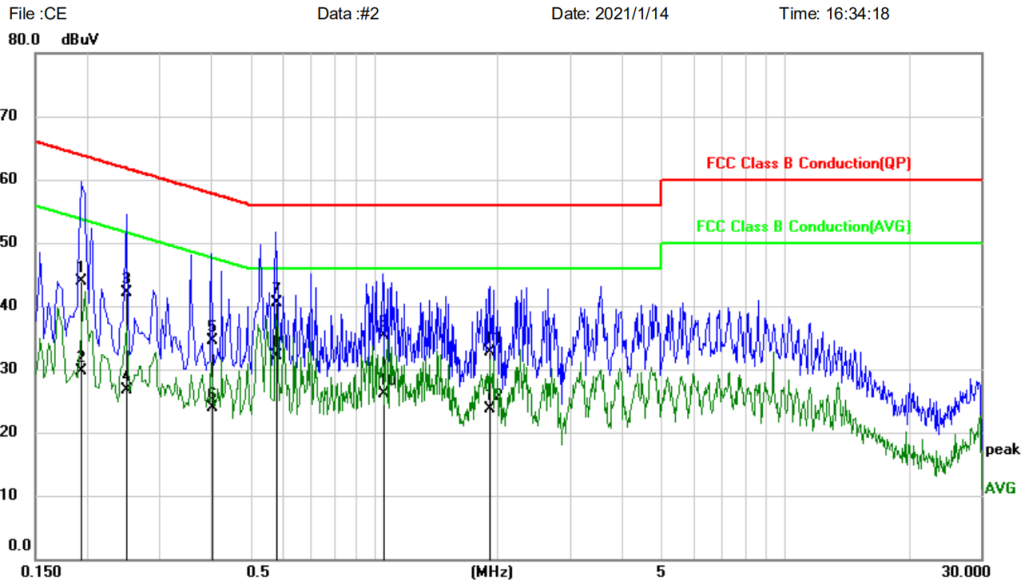
\*:Maximum data x:Over limit !:over margin

〈Reference Only

**Test Result: Pass**

[TestMode: TX]; [Line: Neutral] [Power:AC120V/60Hz]

**Conducted Emission Measurement**



File :CE Data :#2 Date: 2021/1/14 Time: 16:34:18

Site Phase: **N** Temperature:   
 Limit: FCC Class B Conduction(QP) Power: Humidity: %   
 EUT: WIFI Module   
 M/N: 6189N-SFC   
 Mode: 2.4G WIFI mode   
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1940	34.08	9.89	43.97	63.86	-19.89	QP	
2		0.1940	19.79	9.89	29.68	53.86	-24.18	AVG	
3		0.2500	32.26	9.84	42.10	61.76	-19.66	QP	
4		0.2500	16.89	9.84	26.73	51.76	-25.03	AVG	
5		0.4020	24.81	9.70	34.51	57.81	-23.30	QP	
6		0.4020	14.11	9.70	23.81	47.81	-24.00	AVG	
7		0.5780	30.74	9.74	40.48	56.00	-15.52	QP	
8	*	0.5780	22.35	9.74	32.09	46.00	-13.91	AVG	
9		1.0540	25.61	9.79	35.40	56.00	-20.60	QP	
10		1.0540	16.23	9.79	26.02	46.00	-19.98	AVG	
11		1.9100	22.87	9.85	32.72	56.00	-23.28	QP	
12		1.9100	13.94	9.85	23.79	46.00	-22.21	AVG	

\*:Maximum data x:Over limit !:over margin <Reference Only

**Test Result: Pass**

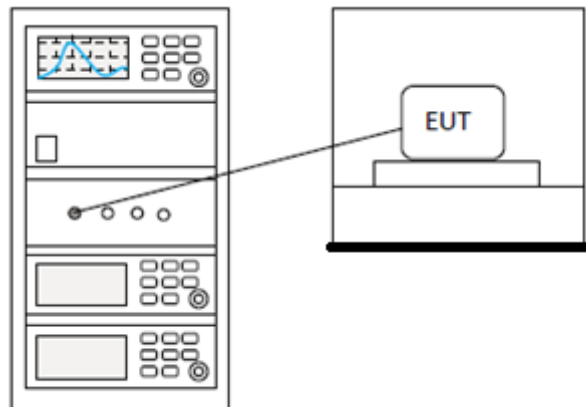
#### 4 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	25°C
Humidity	60%

##### 4.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

##### 4.2 BLOCK DIAGRAM OF TEST SETUP



#### 4.3 EST DATA

**Pass: Please Refer To Appendix: For Details**

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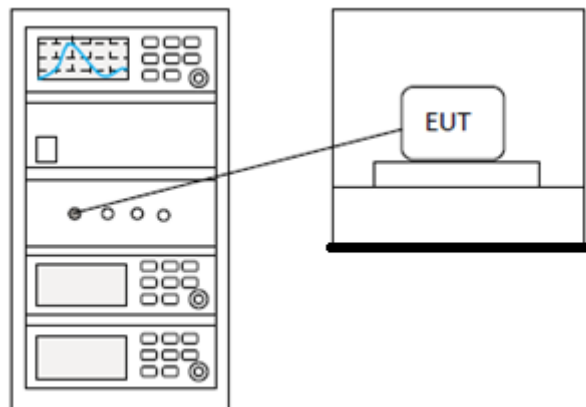
## 5 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	25°C
Humidity	60%

### 5.1 LIMITS

**Limit:**  $\leq 8\text{dBm}$  in any 3 kHz band during any time interval of continuous transmission

### 5.2 BLOCK DIAGRAM OF TEST SETUP



### 5.3 TEST DATA

**Pass: Please Refer To Appendix: For Details**

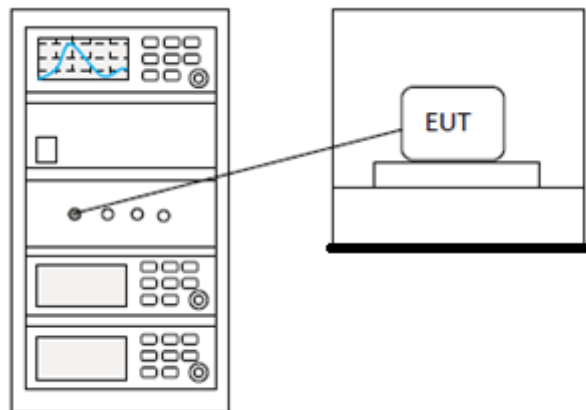
## 6 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	25°C
Humidity	60%

### 6.1 LIMITS

<b>Limit:</b>	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, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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### 6.2 BLOCK DIAGRAM OF TEST SETUP



### 6.3 TEST DATA

**Pass: Please Refer To Appendix: For Details**

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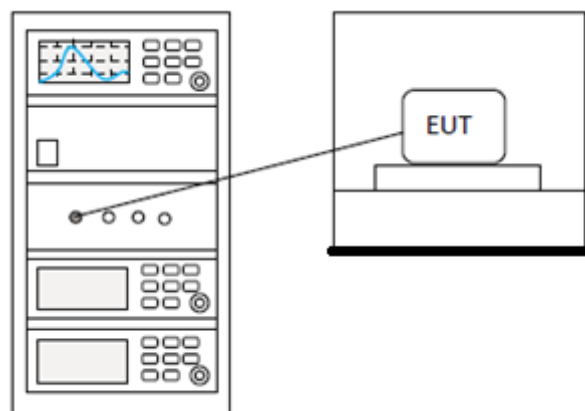
## 7 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	25°C
Humidity	60%

### 7.1 LIMITS

<b>Limit:</b>	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, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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### 7.2 BLOCK DIAGRAM OF TEST SETUP





### 7.3 TEST DATA

**Pass: Please Refer To Appendix: For Details**

BlueAsia

## 8 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

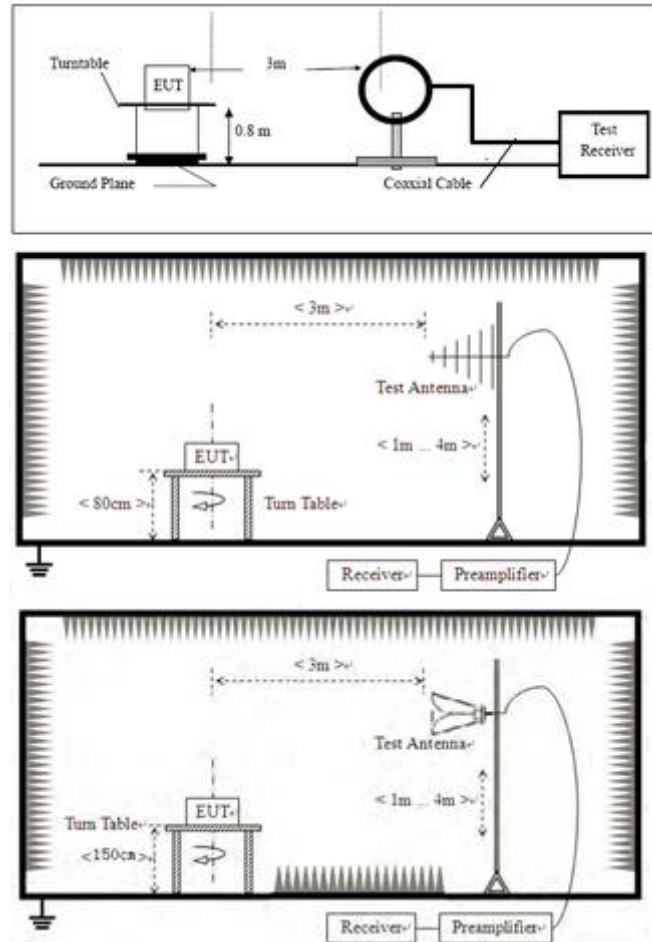
<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 6.10.5
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX
<b>Tester</b>	Eason
<b>Temperature</b>	25°C
<b>Humidity</b>	60%

### 8.1 LIMITS

<b>Frequency(MHz)</b>	<b>Field strength(microvolts/meter)</b>	<b>Measurement distance(meters)</b>
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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

## 8.2 BLOCK DIAGRAM OF TEST SETUP



## 8.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

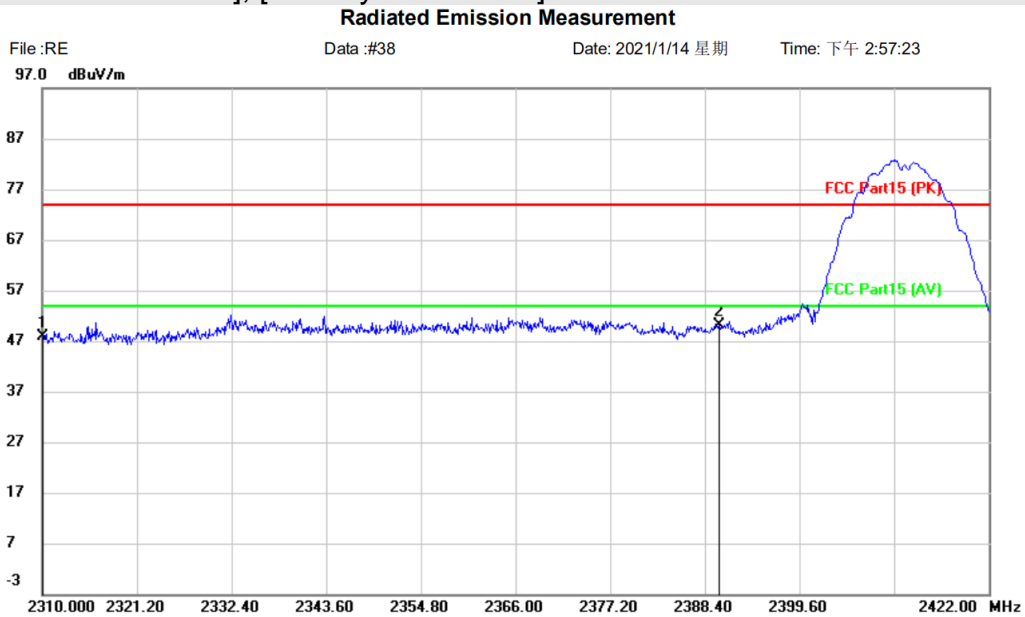
Remark 1:  $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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### 8.4 TEST DATA

[TestMode: 802.11b-2412]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI Module	Distance: 3m	
M/N: 6189N-SFC		
Mode: 802.11b-2412		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	61.92	-14.01	47.91	74.00	-26.09	peak		
2	*	2390.000	63.67	-13.62	50.05	74.00	-23.95	peak		

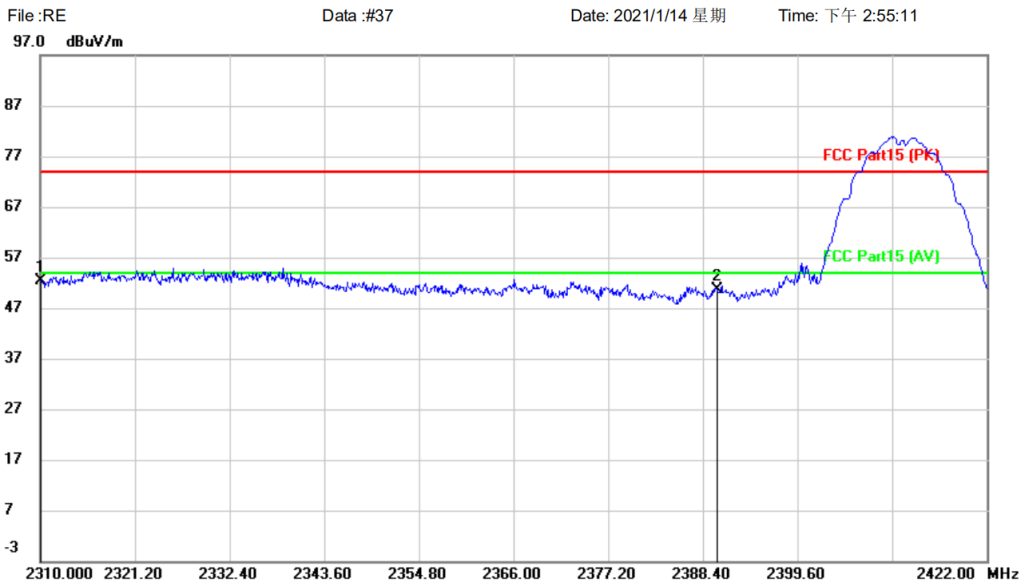
\*:Maximum data    x:Over limit    !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11b-2412]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site Polarization: **Vertical** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11b-2412  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2310.000	66.62	-14.30	52.32	74.00	-21.68	peak		
2		2390.000	64.68	-13.95	50.73	74.00	-23.27	peak		

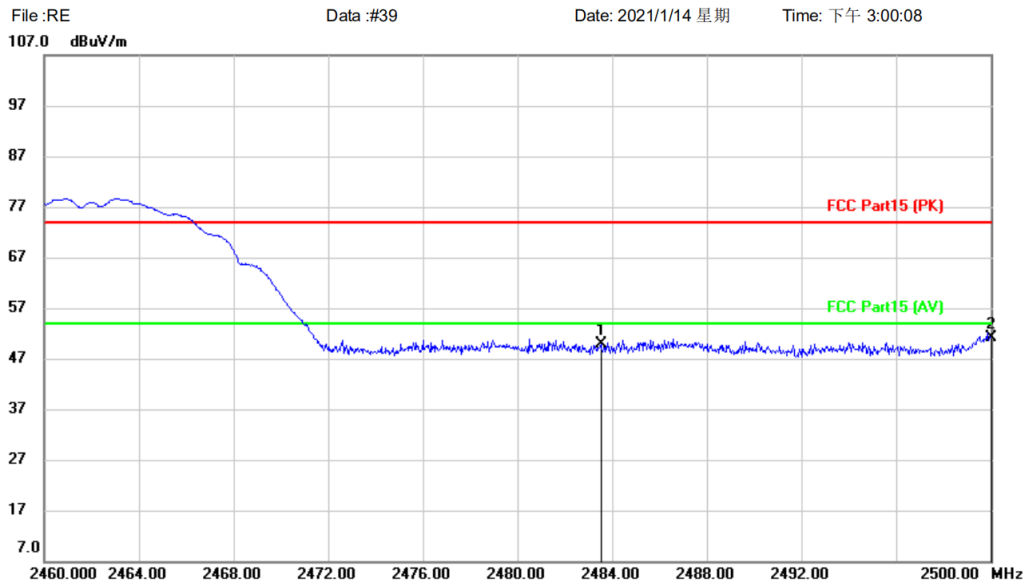
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11b-2462]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Site Polarization: **Horizontal** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11b-2462  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2483.500	62.94	-13.11	49.83	74.00	-24.17	peak		
2	*	2500.000	64.10	-13.02	51.08	74.00	-22.92	peak		

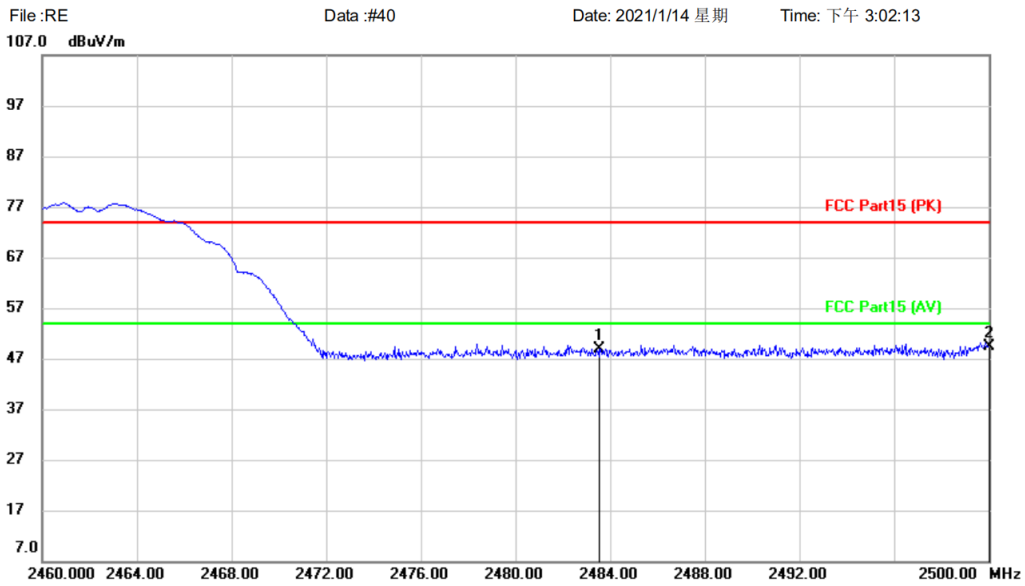
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11b-2462]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site Polarization: **Vertical** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11b-2462  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2483.500	62.35	-13.50	48.85	74.00	-25.15	peak		
2	*	2500.000	62.87	-13.42	49.45	74.00	-24.55	peak		

\*:Maximum data x:Over limit !:over margin

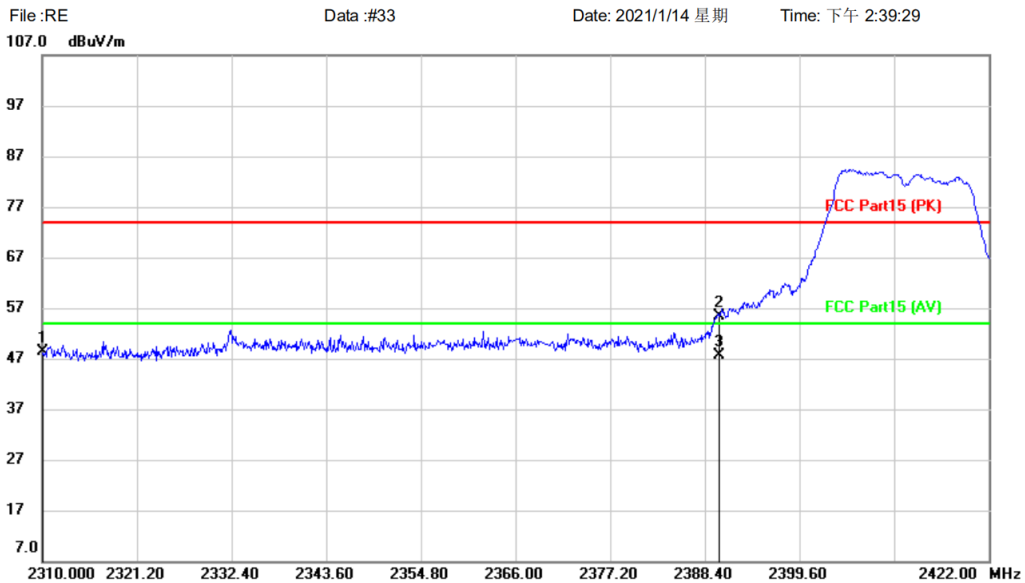
<Reference Only

**Test Result: Pass**



[TestMode: 802.11g-2412]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Site Polarization: **Horizontal** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11g-2412  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	62.37	-14.01	48.36	74.00	-25.64	peak			
2		2390.000	69.11	-13.62	55.49	74.00	-18.51	peak			
3	*	2390.000	61.25	-13.62	47.63	54.00	-6.37	AVG			

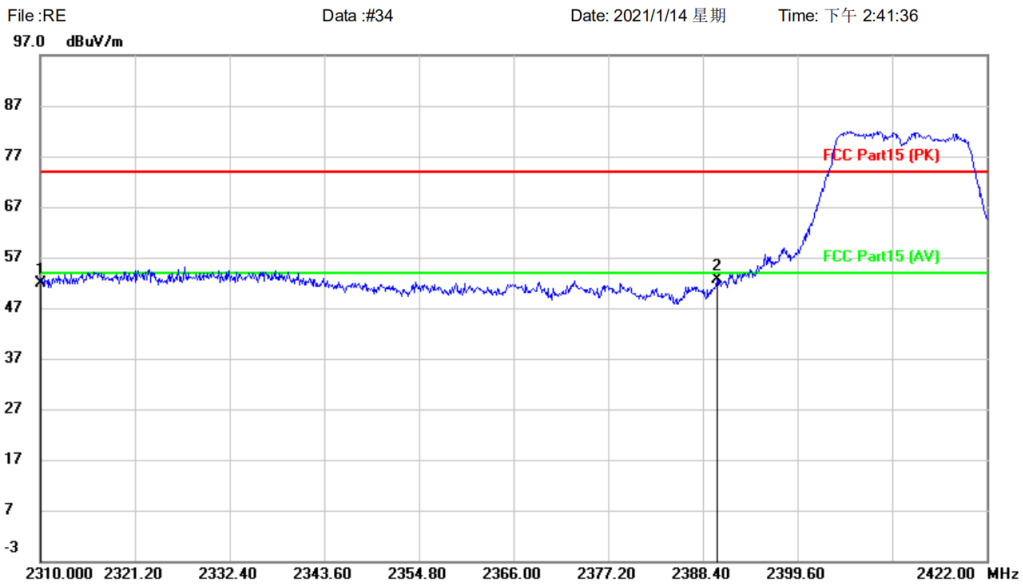
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11g-2412]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site Polarization: **Vertical** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11g-2412  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	66.26	-14.30	51.96	74.00	-22.04	peak		
2	*	2390.000	66.61	-13.95	52.66	74.00	-21.34	peak		

\*:Maximum data x:Over limit !:over margin

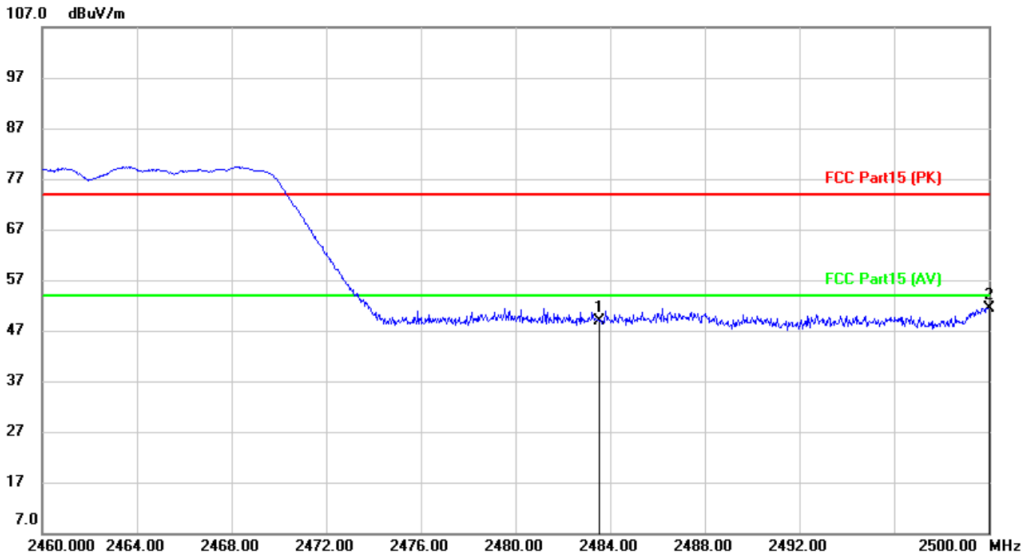
<Reference Only

**Test Result: Pass**

[TestMode: 802.11g-2462]; [Polarity: Horizontal]

**Radiated Emission Measurement**

File :RE Data :#35 Date: 2021/1/14 星期 Time: 下午 2:47:54



Site Polarization: **Horizontal** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11g-2462  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2483.500	61.93	-13.11	48.82	74.00	-25.18	peak		
2	*	2500.000	64.50	-13.02	51.48	74.00	-22.52	peak		

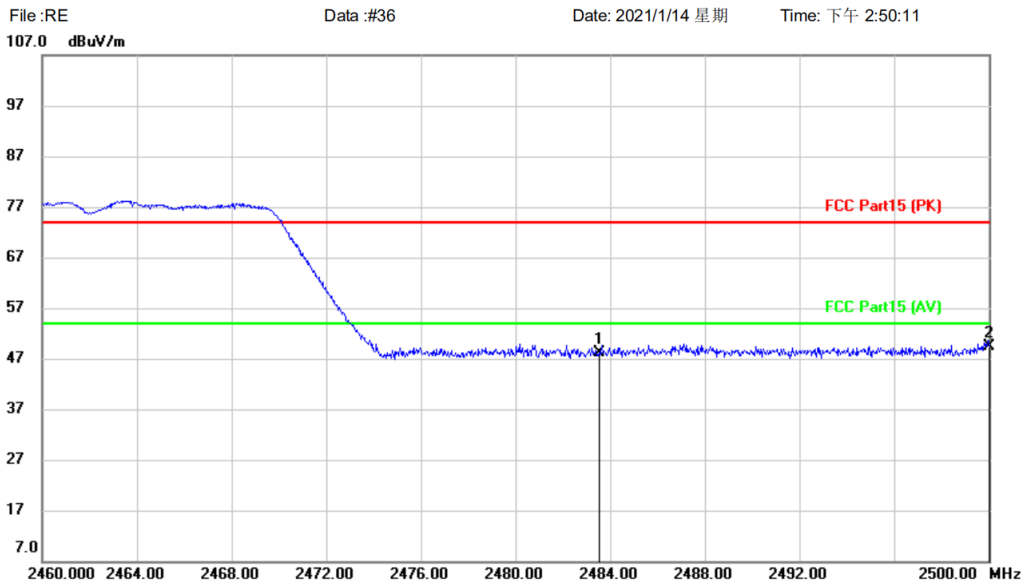
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11g-2462]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site Polarization: **Vertical** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11g-2462  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2483.500	61.60	-13.50	48.10	74.00	-25.90	peak		
2	*	2500.000	62.68	-13.42	49.26	74.00	-24.74	peak		

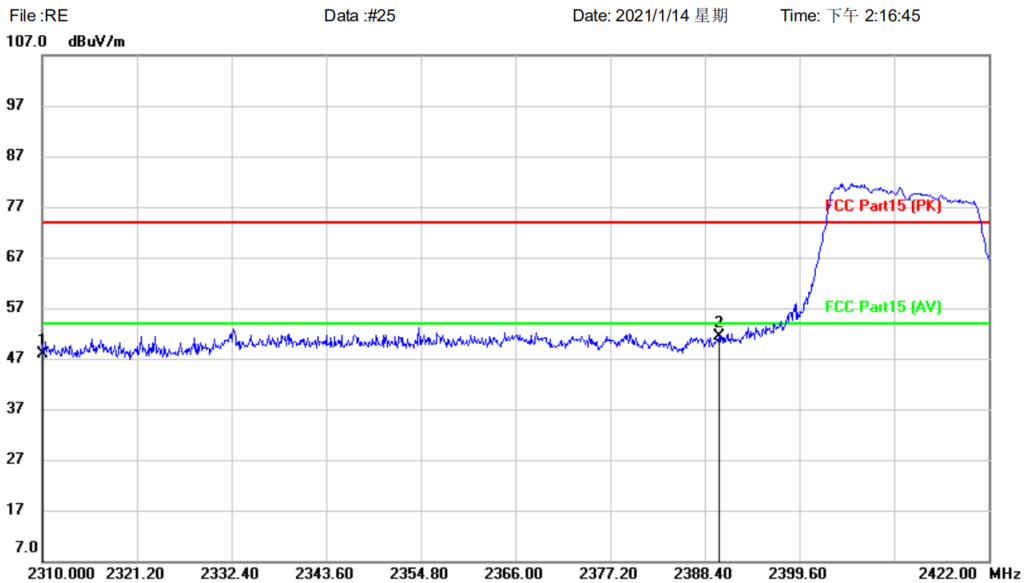
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11n20-2412]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI Module	Distance: 3m	
M/N: 6189N-SFC		
Mode: 802.11n-2412		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	61.83	-14.01	47.82	74.00	-26.18	peak		
2	*	2390.000	64.92	-13.62	51.30	74.00	-22.70	peak		

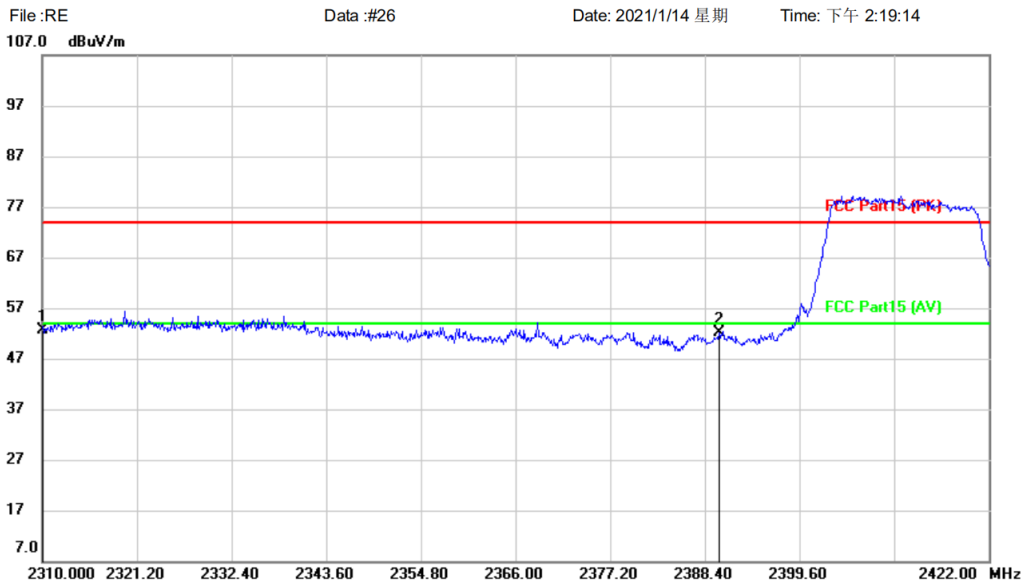
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11n20-2412]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site Polarization: **Vertical** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11n-2412  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2310.000	66.91	-14.30	52.61	74.00	-21.39	peak		
2		2390.000	66.08	-13.95	52.13	74.00	-21.87	peak		

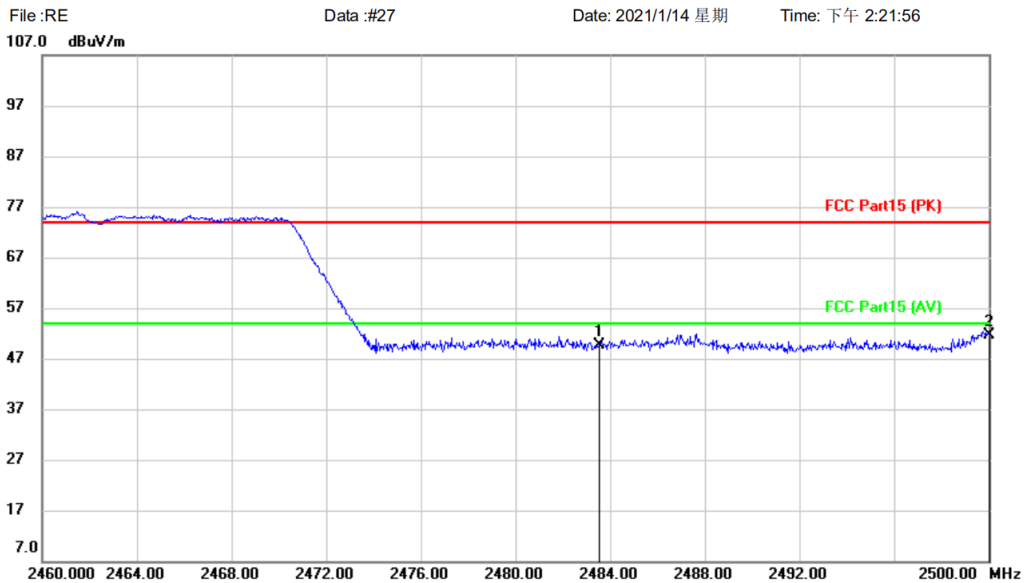
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11n20-2462]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Site Polarization: **Horizontal** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11n-2462  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	62.67	-13.11	49.56	74.00	-24.44	peak			
2	*	2500.000	64.69	-13.02	51.67	74.00	-22.33	peak			

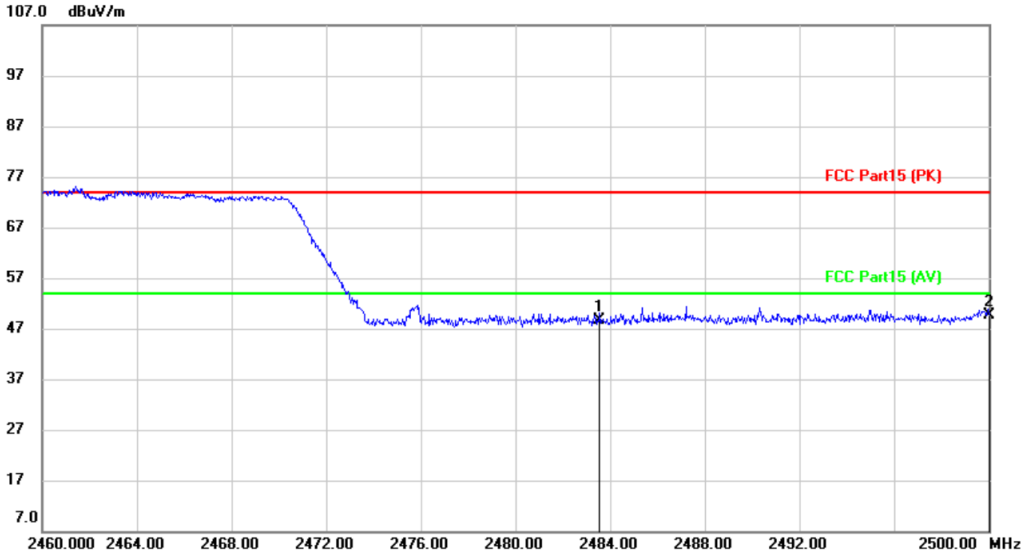
\*:Maximum data x:Over limit !:over margin <Reference Only

**Test Result: Pass**

[TestMode: 802.11n20-2462]; [Polarity: Vertical]

**Radiated Emission Measurement**

File :RE Data :#28 Date: 2021/1/14 星期 Time: 下午 2:23:44



Site Polarization: **Vertical** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11n-2462  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2483.500	62.12	-13.50	48.62	74.00	-25.38	peak		
2	*	2500.000	63.15	-13.42	49.73	74.00	-24.27	peak		

\*:Maximum data x:Over limit !:over margin

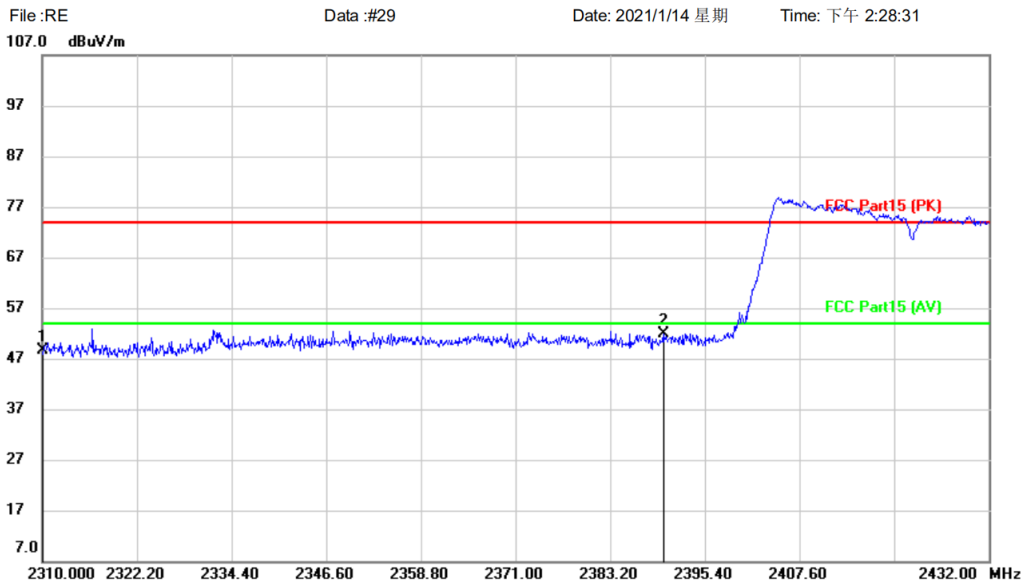
<Reference Only

**Test Result: Pass**



[TestMode: 802.11n40-2422]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI Module	Distance: 3m	
M/N: 6189N-SFC		
Mode: 802.11n40-2422		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	62.55	-14.01	48.54	74.00	-25.46	peak		
2	*	2390.000	65.44	-13.62	51.82	74.00	-22.18	peak		

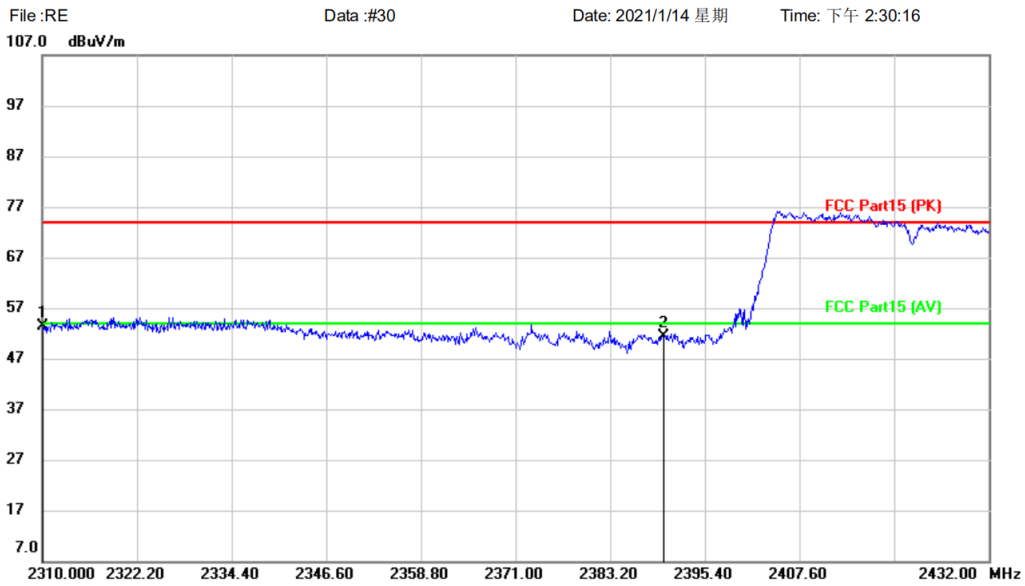
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11n40-2422]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI Module	Distance: 3m	
M/N: 6189N-SFC		
Mode: 802.11n40-2422		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2310.000	67.65	-14.30	53.35	74.00	-20.65	peak		
2		2390.000	65.42	-13.95	51.47	74.00	-22.53	peak		

\*:Maximum data    x:Over limit    !:over margin

<Reference Only

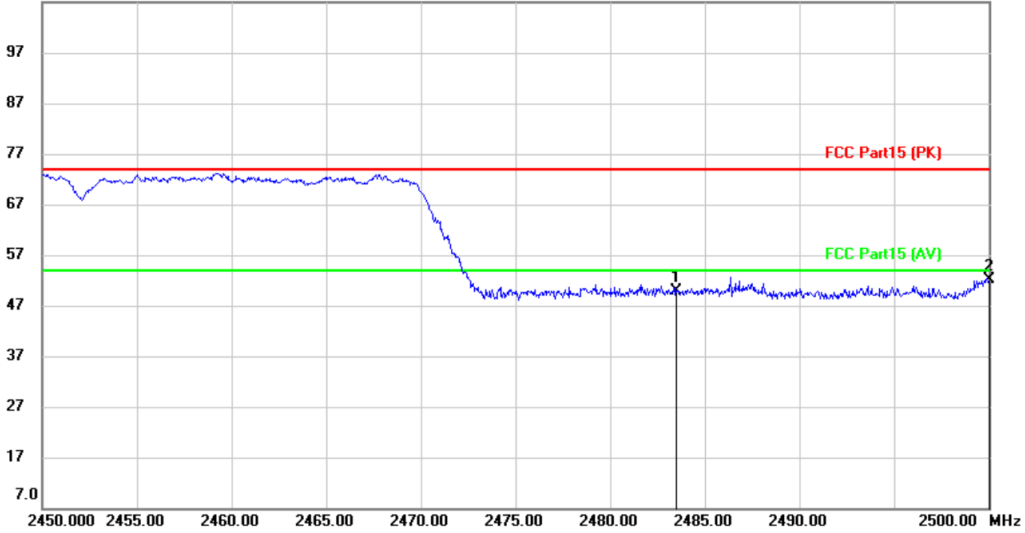
**Test Result: Pass**

[TestMode: 802.11n40-2452]; [Polarity: Horizontal]

**Radiated Emission Measurement**

File :RE Data :#31 Date: 2021/1/14 星期 Time: 下午 2:33:32

107.0 dBuV/m



Site Polarization: **Horizontal** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11n40-2452  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	62.93	-13.11	49.82	74.00	-24.18	peak			
2	*	2500.000	65.03	-13.02	52.01	74.00	-21.99	peak			

\*:Maximum data x:Over limit !:over margin

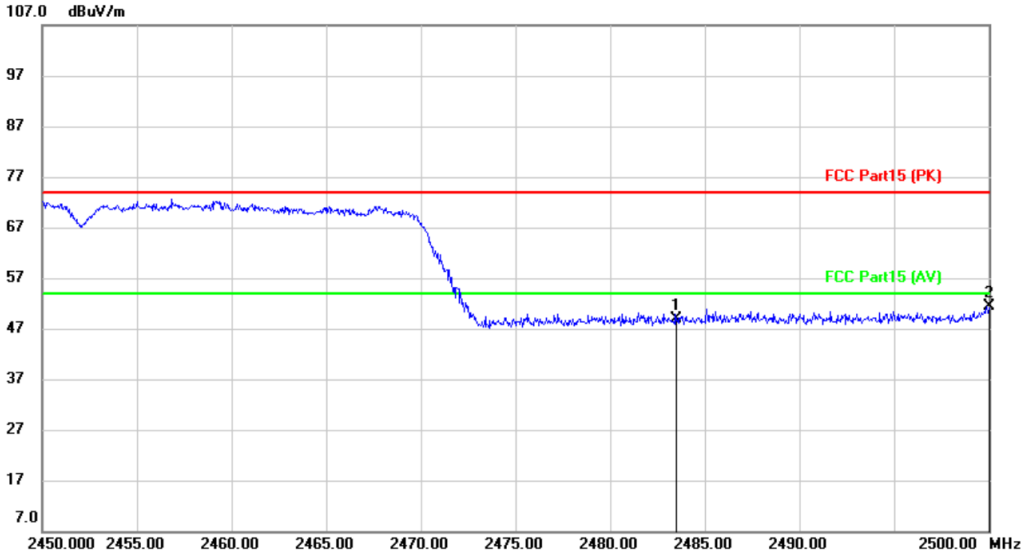
<Reference Only

**Test Result: Pass**

[TestMode: 802.11n40-2452]; [Polarity: Vertical]

**Radiated Emission Measurement**

File :RE Data :#32 Date: 2021/1/14 星期 Time: 下午 2:35:14



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI Module	Distance: 3m	
M/N: 6189N-SFC		
Mode: 802.11n40-2452		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2483.500	62.48	-13.50	48.98	74.00	-25.02	peak		
2	*	2500.000	64.71	-13.42	51.29	74.00	-22.71	peak		

\*:Maximum data x:Over limit !:over margin <Reference Only

**Test Result: Pass**

## 9 RADIATED SPURIOUS EMISSIONS

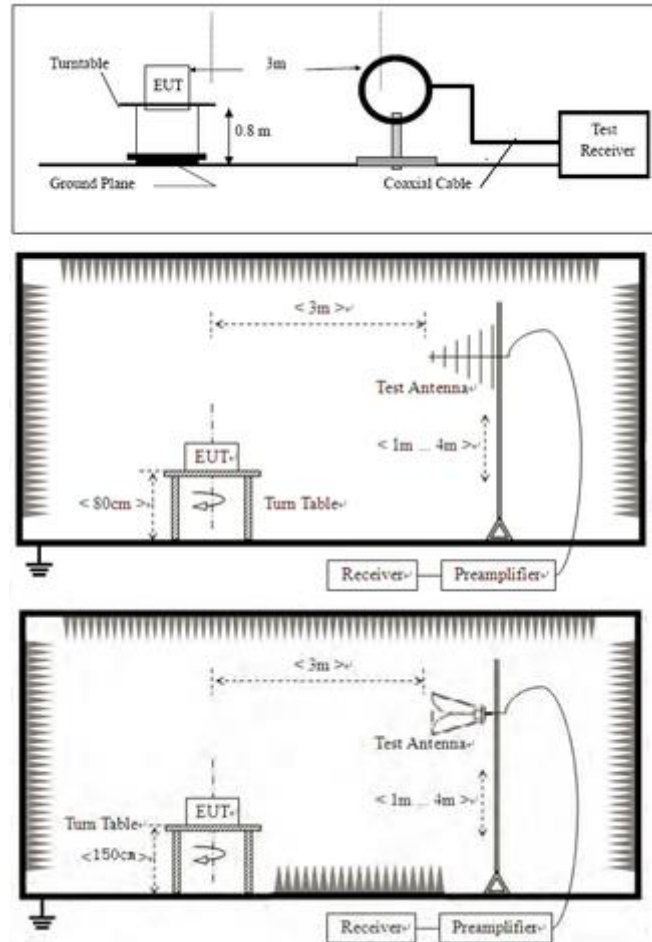
<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 6.4,6.5,6.6
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX
<b>Tester</b>	Eason
<b>Temperature</b>	25°C
<b>Humidity</b>	60%

### 9.1 LIMITS

<b>Frequency(MHz)</b>	<b>Field strength(microvolts/meter)</b>	<b>Measurement distance(meters)</b>
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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

## 9.2 BLOCK DIAGRAM OF TEST SETUP



## 9.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

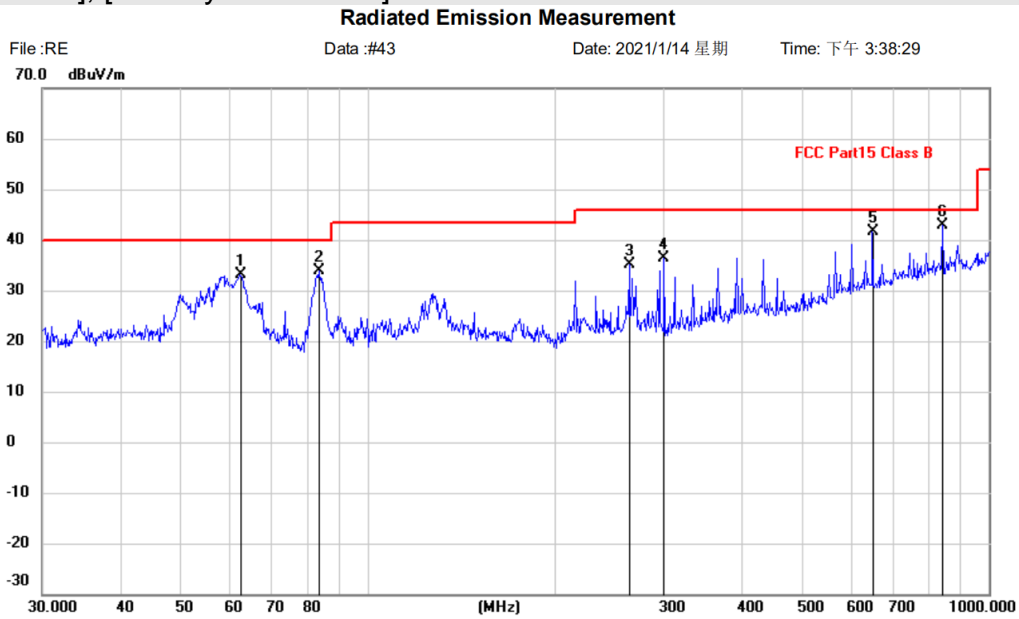
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

### 9.4 TEST DATA

[TestMode: TX]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 Class B	Power:	Humidity: %
EUT: WIFI Module	Distance: 3m	
M/N: 6189N-SFC		
Mode: 2.4G wifi mode		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		62.4314	10.30	22.94	33.24	40.00	-6.76	QP		
2		83.5222	14.48	19.50	33.98	40.00	-6.02	QP		
3		263.8190	12.23	22.93	35.16	46.00	-10.84	QP		
4		300.3672	12.57	23.90	36.47	46.00	-9.53	QP		
5		649.6597	9.58	32.11	41.69	46.00	-4.31	QP		
6	*	842.1296	8.02	34.86	42.88	46.00	-3.12	QP		

\*:Maximum data    x:Over limit    !:over margin

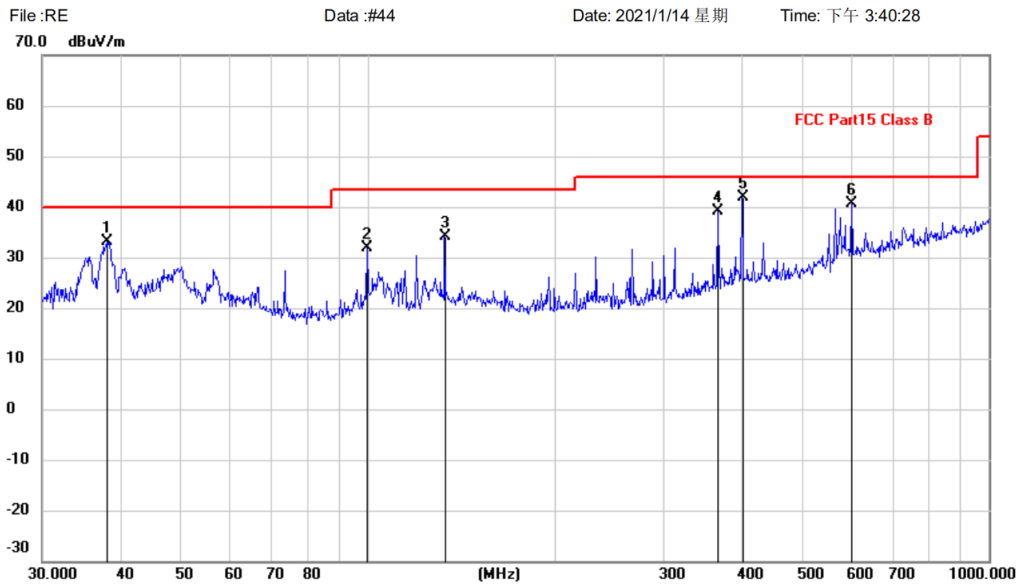
<Reference Only

**Test Result: Pass**



[TestMode: TX]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 Class B	Power:	Humidity: %
EUT: WIFI Module	Distance: 3m	
M/N: 6189N-SFC		
Mode: 2.4G wifi mode		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		38.0783	9.40	23.78	33.18	40.00	-6.82	QP		
2		99.8777	11.54	20.43	31.97	43.50	-11.53	QP		
3		133.1511	11.07	23.10	34.17	43.50	-9.33	QP		
4		366.8231	12.67	26.49	39.16	46.00	-6.84	QP		
5	*	400.4319	14.40	27.59	41.99	46.00	-4.01	QP		
6		601.4265	8.87	31.67	40.54	46.00	-5.46	QP		

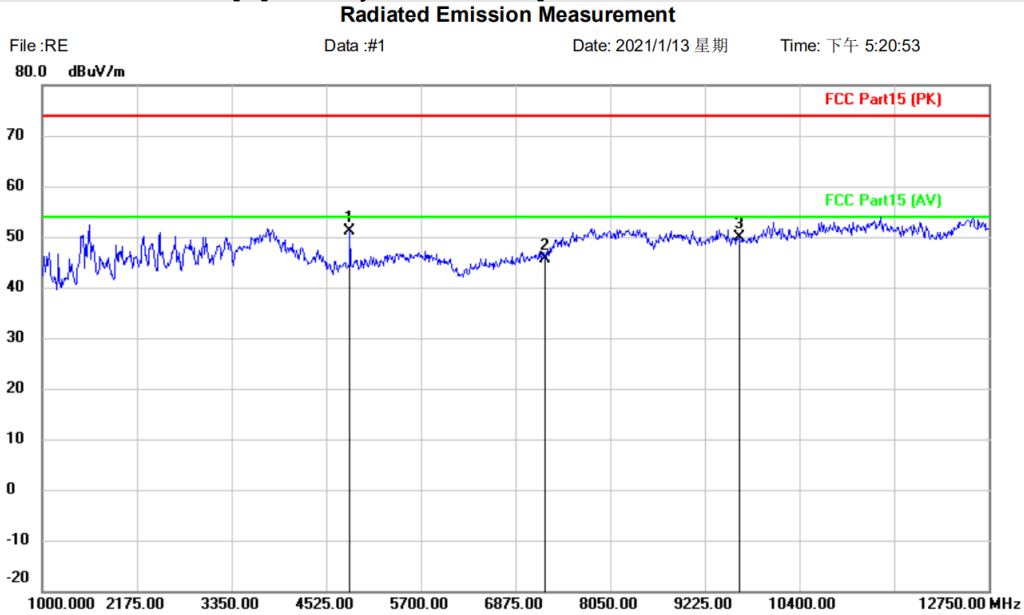
\*:Maximum data    x:Over limit    !:over margin

⟨Reference Only

**Test Result: Pass**

Remark: During the test, pre-scan the 802.11b/g/nH20/nH40 mode, and found the 802.11b mode which it is worse case.

[TestMode: 802.11b-2412]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI Module	Distance: 3m	
M/N: 6189N-SFC		
Mode: 802.11b-2412		
Note:		

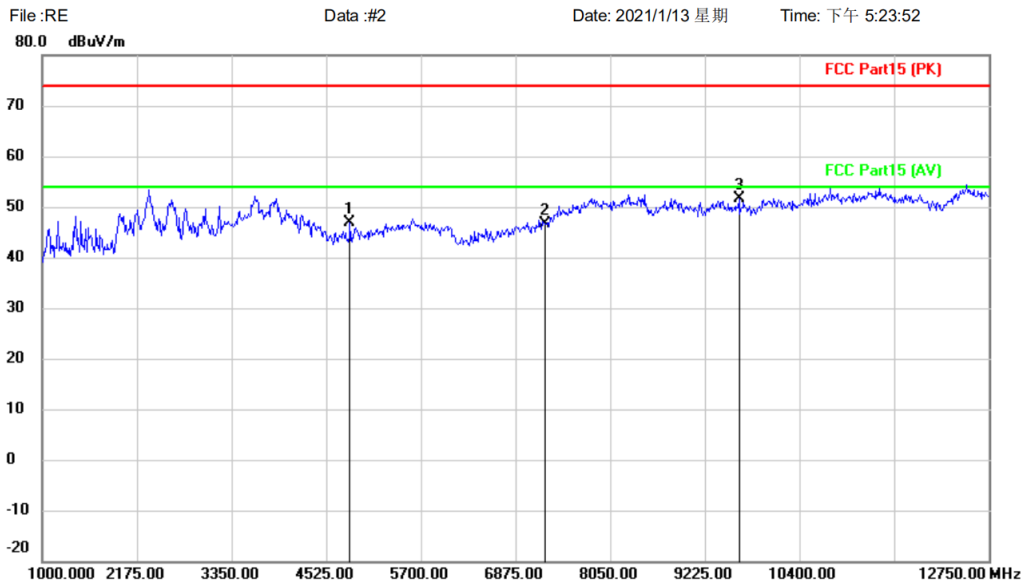
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	4818.750	58.45	-7.31	51.14	74.00	-22.86	peak		
2		7236.000	49.72	-4.16	45.56	74.00	-28.44	peak		
3		9648.000	49.84	-0.07	49.77	74.00	-24.23	peak		

\*:Maximum data    x:Over limit    !:over margin                      <Reference Only

**Test Result: Pass**

[TestMode: 802.11b-2412]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site Polarization: **Vertical** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11b-2412  
 Note:

No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Antenna	Table	Comment
			Level dBuV	Factor dB	ment dBuV/m					
1		4818.750	54.26	-7.31	46.95	74.00	-27.05	peak		
2		7236.000	50.79	-4.16	46.63	74.00	-27.37	peak		
3	*	9648.000	51.69	-0.07	51.62	74.00	-22.38	peak		

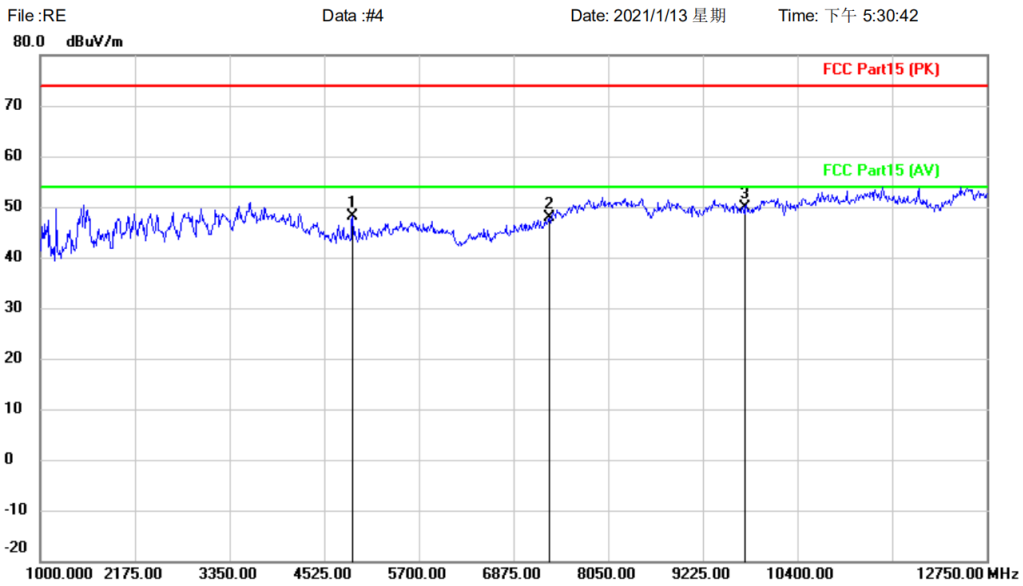
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11b-2437]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI Module	Distance: 3m	
M/N: 6189N-SFC		
Mode: 802.11b-2437		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4877.500	55.59	-7.50	48.09	74.00	-25.91	peak		
2		7311.000	51.43	-3.48	47.95	74.00	-26.05	peak		
3	*	9748.000	49.31	0.47	49.78	74.00	-24.22	peak		

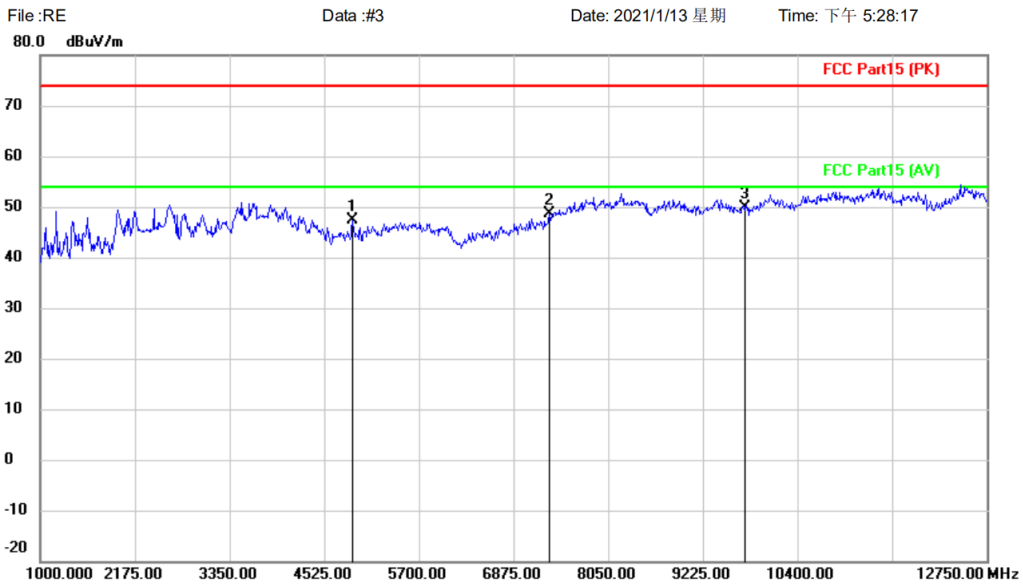
\*:Maximum data    x:Over limit    !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11b-2437]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site Polarization: **Vertical** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11b-2437  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		4877.500	55.00	-7.50	47.50	74.00	-26.50	peak		
2		7311.000	52.03	-3.48	48.55	74.00	-25.45	peak		
3	*	9748.000	49.33	0.47	49.80	74.00	-24.20	peak		

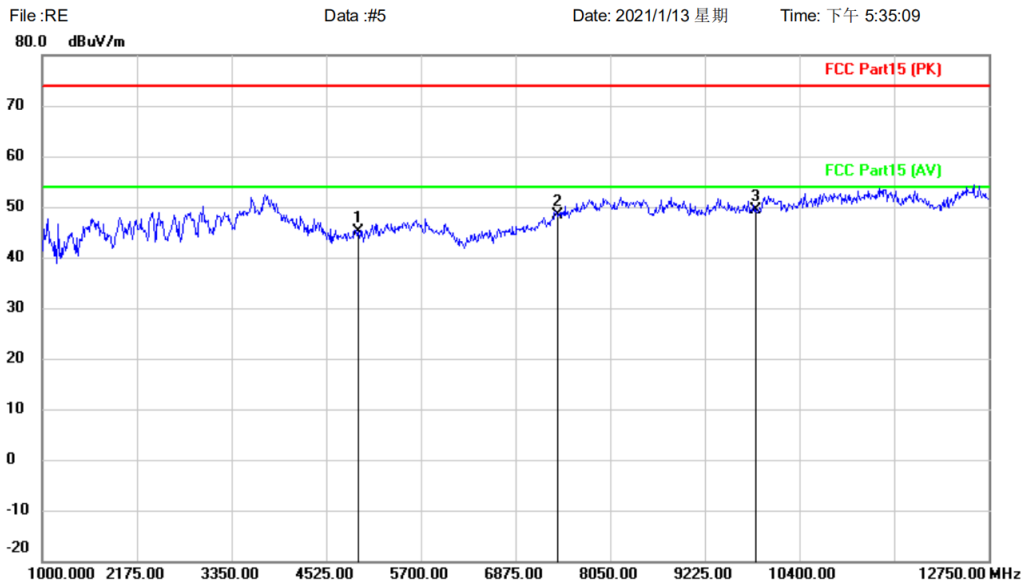
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11b-2462]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Site Polarization: **Horizontal** Temperature:  
 Limit: FCC Part15 (PK) Power: Humidity: %  
 EUT: WIFI Module Distance: 3m  
 M/N: 6189N-SFC  
 Mode: 802.11b-2462  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4924.000	52.38	-7.33	45.05	74.00	-28.95	peak		
2		7386.000	51.06	-2.79	48.27	74.00	-25.73	peak		
3	*	9848.000	48.31	1.10	49.41	74.00	-24.59	peak		

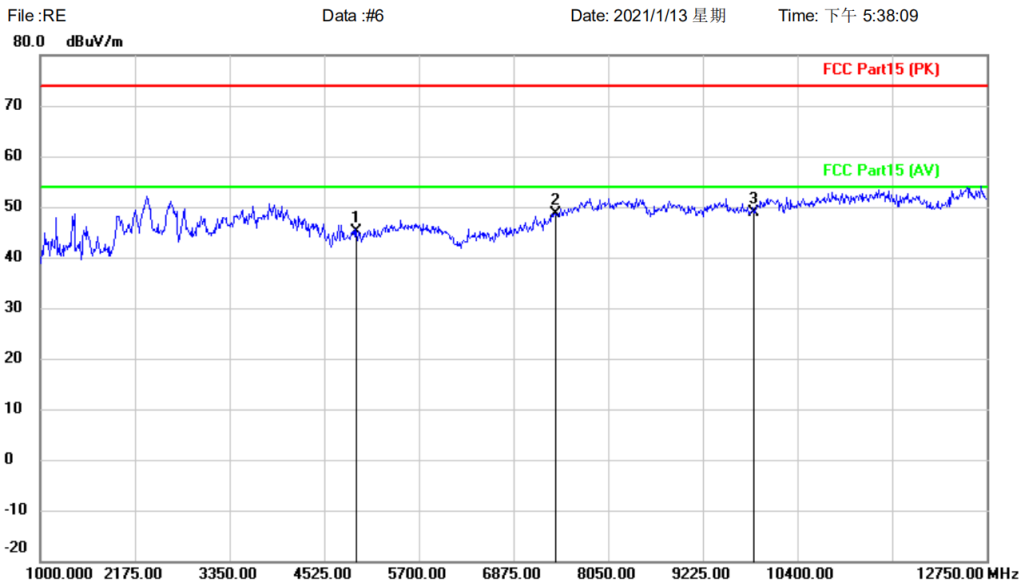
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: 802.11b-2462]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI Module	Distance: 3m	
M/N: 6189N-SFC		
Mode: 802.11b-2462		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4924.000	52.38	-7.33	45.05	74.00	-28.95	peak		
2		7386.000	51.54	-2.79	48.75	74.00	-25.25	peak		
3	*	9848.000	47.80	1.10	48.90	74.00	-25.10	peak		

\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

## 10 APPENDIX

Please Refer To Appendix 1

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

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