

# TEST REPORT

**Product Name** : Wi-Fi/BT Module  
**Brand Mark** : HUNAN FN-LINK  
**Model No.** : 6223N-SRD  
**FCC ID** : 2AATL-6223N-SRD  
**Report Number** : BLA-EMC-202102-A4202  
**Date of Sample Receipt** : 2021/2/23  
**Date of Test** : 2021/2/23 to 2021/3/10  
**Date of Issue** : 2021/3/10  
**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 & Technical Development Zone,  
Changsha, Hunan, CHINA**

Prepared by:

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Date: 2021/3/11



**REPORT REVISE RECORD**

Version No.	Date	Description
00	2021/3/11	Original

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## 1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
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 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 Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2	47 CFR Part 15, Subpart C 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
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
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	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)(3)	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
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass

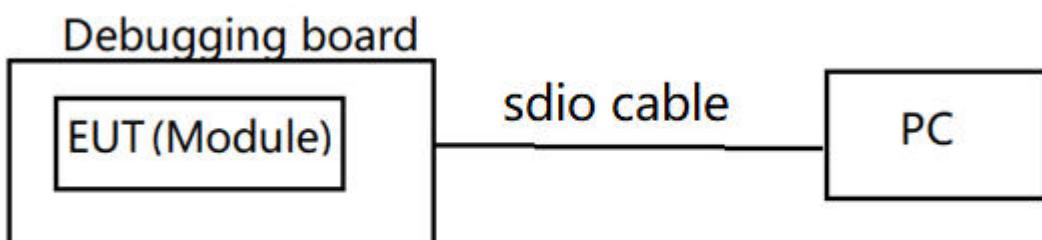
## 2 GENERAL INFORMATION

<b>Applicant</b>	HUNAN FN-LINK TECHNOLOGY LIMITED
<b>Address</b>	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA
<b>Manufacturer</b>	HUNAN FN-LINK TECHNOLOGY LIMITED
<b>Address</b>	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA
<b>Factory</b>	HUNAN FN-LINK TECHNOLOGY LIMITED
<b>Address</b>	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA
<b>Product Name</b>	Wi-Fi/BT Module
<b>Test Model No.</b>	6223N-SRD

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

<b>Hardware Version</b>	1.0
<b>Software Version</b>	1.0
<b>Operation Frequency:</b>	2402MHz~2480MHz
<b>Modulation Type:</b>	GFSK
<b>Channel Spacing:</b>	2MHz
<b>Number of Channels:</b>	40
<b>Antenna Type:</b>	Internal Antenna
<b>Antenna Gain:</b>	1.2 dBi(Provided by customer)

## 4 BLOCK DIAGRAM OF EUT CONNECTION



## 5 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	3.3Vdc

## 6 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
TX	Keep the EUT in transmitting mode

Remark: Only the data of the worst mode would be recorded in this report.

## 7 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

## 8 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	HASEE	K610D	--	--

**Note:**  
"--" means no any support device during testing.

## 9 LABORATORY LOCATION

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

## 10 TEST INSTRUMENTS LIST

Test Equipment Of Power Spectrum Density					
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	安泰信	AT166-2	AKK180600003	2020/10/12	2021/10/11
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

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 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

**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 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 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 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

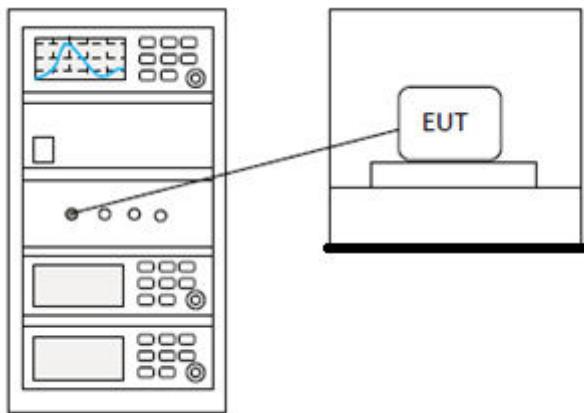
## 1 POWER SPECTRUM DENSITY

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

### 1.1 LIMITS

**Limit:** ≤8dBm in any 3 kHz band during any time interval of continuous transmission

### 1.2 BLOCK DIAGRAM OF TEST SETUP



### 1.3 TEST DATA

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

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

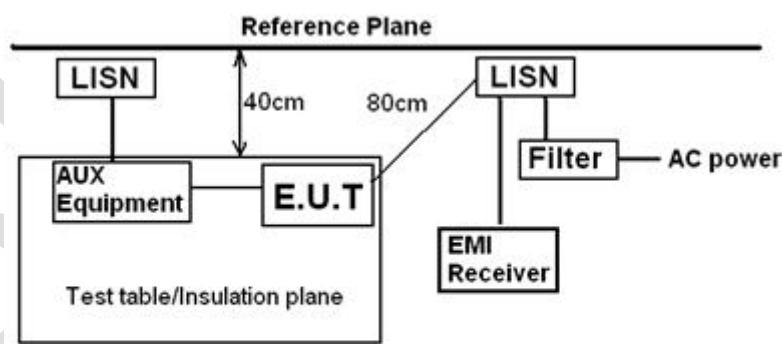
<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 6.2
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX
<b>Tester</b>	Jozu
<b>Temperature</b>	25 °C
<b>Humidity</b>	60%

### 2.1 LIMITS

Frequency of emission(MHz)	Conducted limit(dB $\mu$ V)	
	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.

### 2.2 BLOCK DIAGRAM OF TEST SETUP



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

### 2.3 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 + 50hm 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

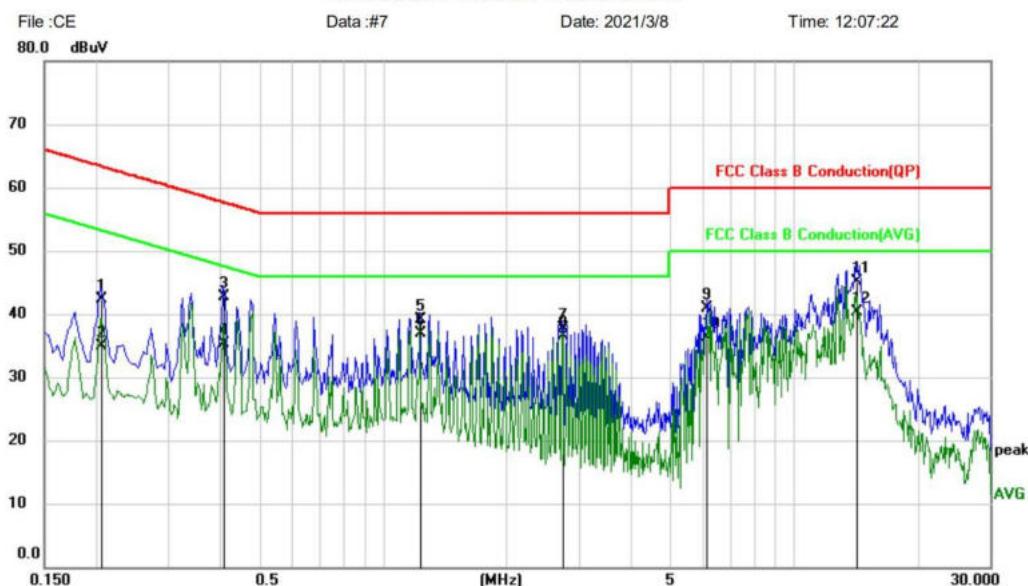
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## 2.4 TEST DATA

[TestMode: TX]; [Line: Nutral]

Power:AC120V60Hz

### Conducted Emission Measurement



Site

Limit: FCC Class B Conduction(QP)

Phase:

**N**

Temperature:

Humidity: %

EUT: WIFI BT Model

M/N: 6223N-SRD

Mode: BLE mode

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over			
						MHz	dBuV	dB	Detector
1	0.2060	32.58	9.75	42.33	63.37	-21.04	QP		
2	0.2060	25.07	9.75	34.82	53.37	-18.55	AVG		
3	0.4100	32.94	9.78	42.72	57.65	-14.93	QP		
4	0.4100	25.58	9.78	35.36	47.65	-12.29	AVG		
5	1.2300	29.32	9.84	39.16	56.00	-16.84	QP		
6 *	1.2300	27.12	9.84	36.96	46.00	-9.04	AVG		
7	2.7340	27.79	9.89	37.68	56.00	-18.32	QP		
8	2.7340	26.58	9.89	36.47	46.00	-9.53	AVG		
9	6.1500	30.82	9.99	40.81	60.00	-19.19	QP		
10	6.1500	26.41	9.99	36.40	50.00	-13.60	AVG		
11	14.1540	34.92	10.28	45.20	60.00	-14.80	QP		
12	14.1540	30.09	10.28	40.37	50.00	-9.63	AVG		

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

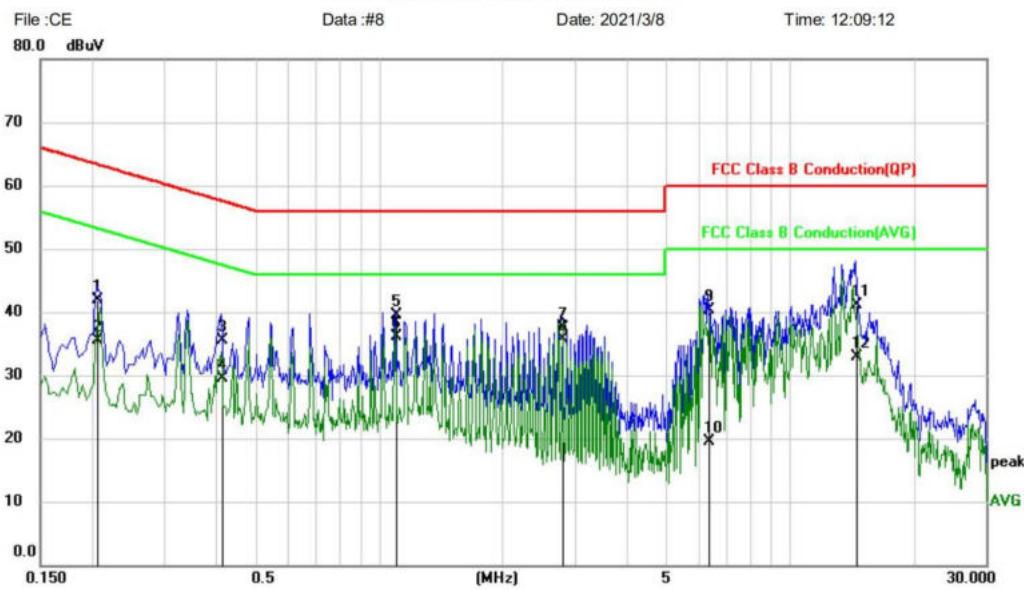
⟨Reference Only⟩

**Test Result: Pass**

[TestMode: TX]; [Line: Line]

Power: AC120V60Hz

### Conducted Emission Measurement



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.2060	32.12	9.83	41.95	63.37	-21.42	QP	
2		0.2060	25.61	9.83	35.44	53.37	-17.93	AVG	
3		0.4140	25.65	9.85	35.50	57.57	-22.07	QP	
4		0.4140	19.61	9.85	29.46	47.57	-18.11	AVG	
5		1.0940	29.63	9.92	39.55	56.00	-16.45	QP	
6 *		1.0940	26.21	9.92	36.13	46.00	-9.87	AVG	
7		2.8020	27.46	9.97	37.43	56.00	-18.57	QP	
8		2.8020	25.74	9.97	35.71	46.00	-10.29	AVG	
9		6.3460	30.27	10.06	40.33	60.00	-19.67	QP	
10		6.3460	9.38	10.06	19.44	50.00	-30.56	AVG	
11		14.4660	30.72	10.34	41.06	60.00	-18.94	QP	
12		14.4660	22.47	10.34	32.81	50.00	-17.19	AVG	

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

⟨Reference Only⟩

**Test Result: Pass**

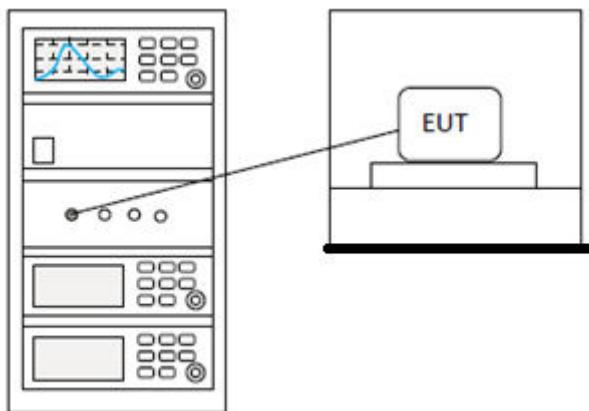
### 3 CONDUCTED BAND EDGES MEASUREMENT

<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX
<b>Tester</b>	Jozu
<b>Temperature</b>	25 °C
<b>Humidity</b>	60%

#### 3.1 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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#### 3.2 BLOCK DIAGRAM OF TEST SETUP



#### 3.3 TEST DATA

<b>Pass: Please Refer To Appendix: Appendix1 For Details</b>
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#### 4 RADIATED SPURIOUS EMISSIONS

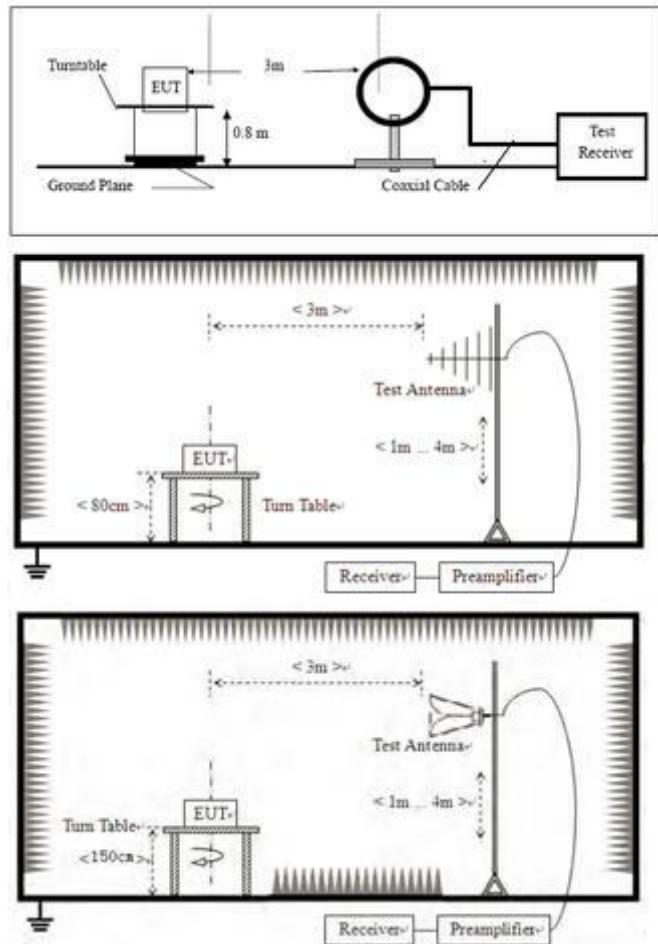
<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 6.4,6.5,6.6
<b>Test Mode (Pre-Scan)</b>	TX mode (SE) below 1G;TX mode (SE) Above 1G
<b>Test Mode (Final Test)</b>	TX mode (SE) below 1G;TX mode (SE) Above 1G
<b>Tester</b>	Jozu
<b>Temperature</b>	25 °C
<b>Humidity</b>	60%

##### 4.1 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.

#### 4.2 BLOCK DIAGRAM OF TEST SETUP



#### 4.3 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.

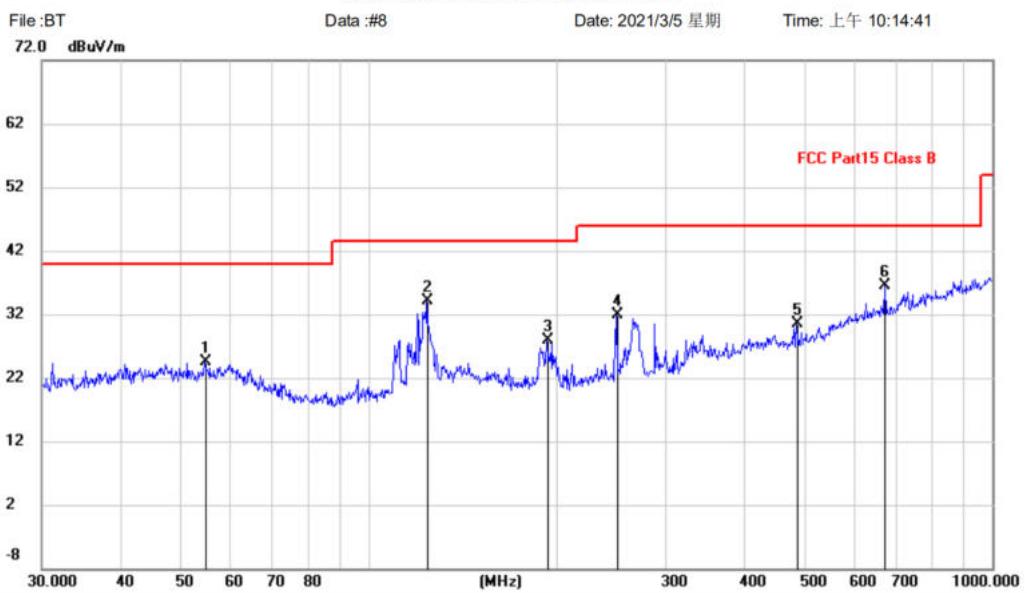
Remark:

- 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 "C Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.750GHz 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.

#### 4.4 TEST DATA

[Test Mode: TX mode (SE) below 1G][Polarity: Horizontal]

##### Radiated Emission Measurement



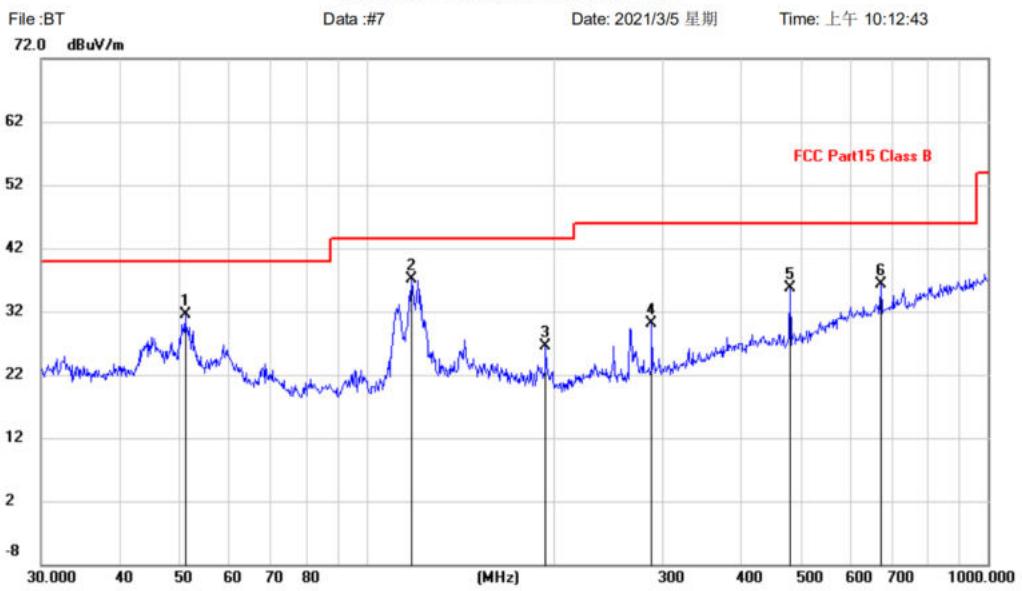
Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 Class B	Power:	Humidity: %
EUT: WIFI/BT Model	Distance: 3m	
M/N: 6223N-SRD		
Mode: BLE mode		
Note:		

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
			dBuV	dB	dBuV/m					
1		54.6429	0.90	23.63	24.53	40.00	-15.47	QP		
2 *		124.1330	11.43	22.74	34.17	43.50	-9.33	QP		
3		193.0945	6.92	20.94	27.86	43.50	-15.64	QP		
4		250.3012	9.04	22.84	31.88	46.00	-14.12	QP		
5		485.6093	2.23	28.25	30.48	46.00	-15.52	QP		
6		672.8444	4.26	32.25	36.51	46.00	-9.49	QP		

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

(Reference Only)

**Test Result: Pass**

**[Test Mode: TX mode (SE) below 1G] [Polarity: Vertical]**
**Radiated Emission Measurement**


Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 Class B

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BLE mode

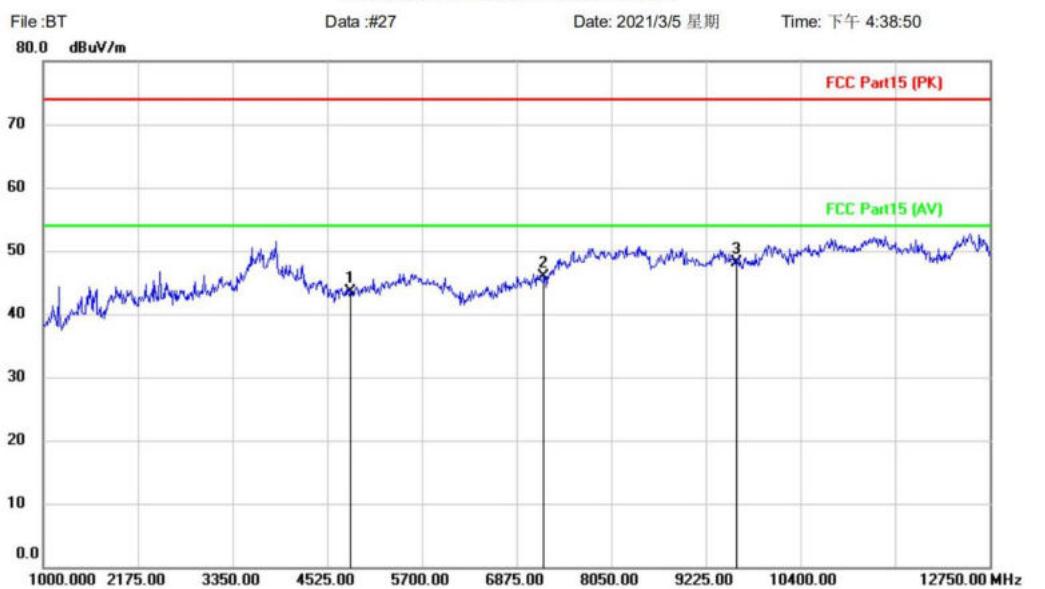
Note:

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		51.1209	7.68	23.75	31.43	40.00	-8.57	QP		
2 *		118.1862	14.64	22.38	37.02	43.50	-6.48	QP		
3		194.4534	5.52	20.89	26.41	43.50	-17.09	QP		
4		287.9904	6.44	23.73	30.17	46.00	-15.83	QP		
5		480.5276	7.45	28.17	35.62	46.00	-10.38	QP		
6		672.8444	4.14	32.25	36.39	46.00	-9.61	QP		

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

(Reference Only)

**Test Result: Pass**

**[Test Mode: TX Low channel] [Polarity: Horizontal]**
**Radiated Emission Measurement**


Site                              Polarization: **Horizontal**                      Temperature:  
Limit: FCC Part15 (PK)                      Power:                              Humidity: %  
EUT: WIFI/BT Model                      Distance: 3m  
M/N: 6223N-SRD  
Mode: BLE-TX-L  
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4808.000	50.89	-7.29	43.60	74.00	-30.40	peak		
2		7206.000	50.26	-4.42	45.84	74.00	-28.16	peak		
3	*	9608.000	48.37	-0.29	48.08	74.00	-25.92	peak		

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

(Reference Only)

**Test Result: Pass**

**[Test Mode: TX Low channel] [Polarity: Vertical]**
**Radiated Emission Measurement**


Site                              Polarization: **Vertical**                      Temperature:  
Limit: FCC Part15 (PK)                      Power:                      Humidity: %  
EUT: WIFI/BT Model                      Distance: 3m  
M/N: 6223N-SRD  
Mode: BLE-TX-L  
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4808.000	50.84	-7.29	43.55	74.00	-30.45	peak		
2		7206.000	49.70	-4.42	45.28	74.00	-28.72	peak		
3	*	9608.000	49.29	-0.29	49.00	74.00	-25.00	peak		

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

(Reference Only)

**Test Result: Pass**



[Test Mode: TX middle channel] [Polarity: Horizontal]

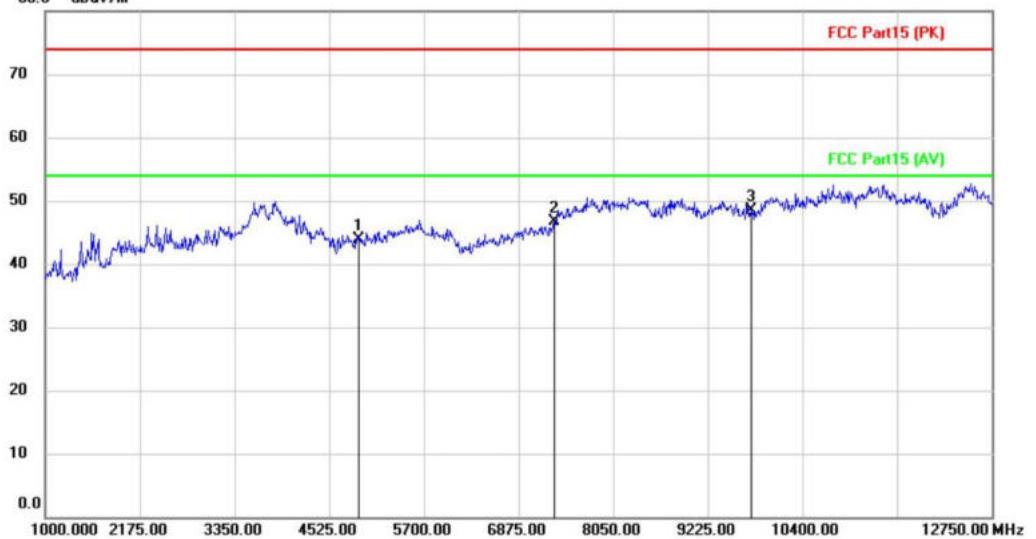
## Radiated Emission Measurement

File :BT

Data :#30

Date: 2021/3/5 星期

Time: 下午 4:57:50



Site

Polarization: **Horizontal**

**Temperature:**

Limit: FCC Part15 (PK)

Power

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BLE-TX-M

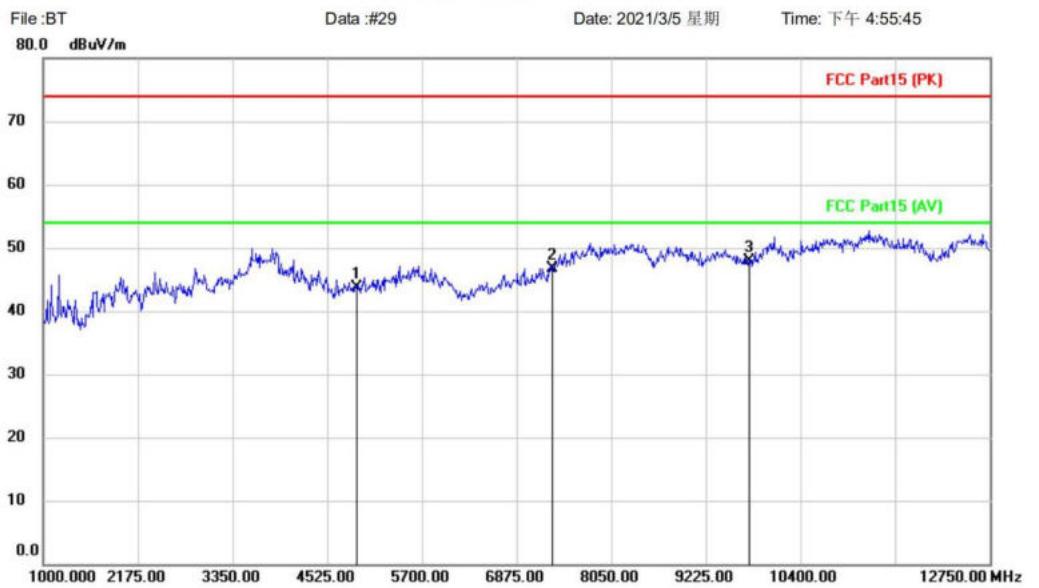
**Note:**

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment						
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4880.000	51.41	-7.51	43.90	74.00	-30.10	peak			
2		7320.000	50.19	-3.39	46.80	74.00	-27.20	peak			
3	*	9760.000	47.89	0.54	48.43	74.00	-25.57	peak			

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

⟨Reference Only

## Test Result: Pass

**[Test Mode: TX middle channel] [Polarity: Vertical]**
**Radiated Emission Measurement**


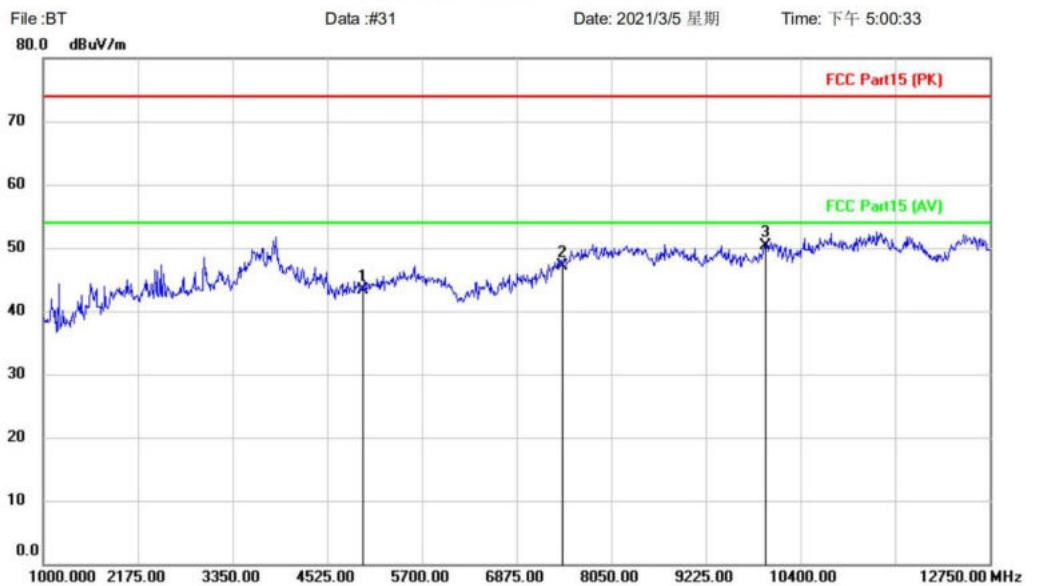
Site                              Polarization: **Vertical**                      Temperature:  
Limit: FCC Part15 (PK)                      Power:                      Humidity: %  
EUT: WIFI/BT Model                      Distance: 3m  
M/N: 6223N-SRD  
Mode: BLE-TX-M  
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4880.000	51.29	-7.51	43.78	74.00	-30.22	peak		
2		7320.000	50.02	-3.39	46.63	74.00	-27.37	peak		
3	*	9760.000	47.46	0.54	48.00	74.00	-26.00	peak		

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

(Reference Only)

**Test Result: Pass**

**[Test Mode: TX high channel] [Polarity: Horizontal]**
**Radiated Emission Measurement**


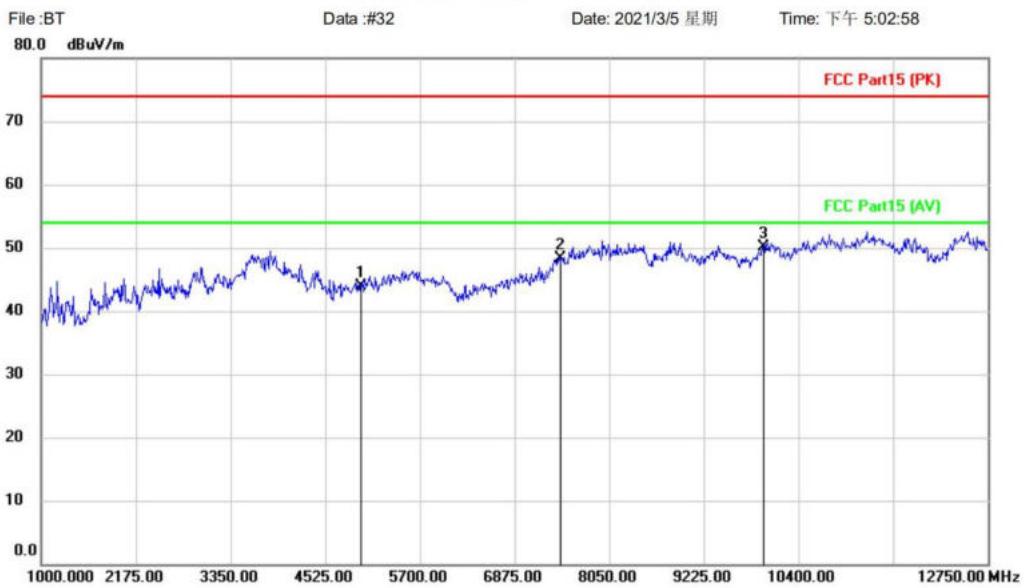
Site                              Polarization: **Horizontal**                      Temperature:  
Limit: FCC Part15 (PK)                      Power:                      Humidity: %  
EUT: WIFI/BT Model                      Distance: 3m  
M/N: 6223N-SRD  
Mode: BLE-TX-H  
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4960.000	50.37	-6.99	43.38	74.00	-30.62	peak		
2		7440.000	49.59	-2.43	47.16	74.00	-26.84	peak		
3	*	9960.000	48.48	1.92	50.40	74.00	-23.60	peak		

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

(Reference Only)

**Test Result: Pass**

**[Test Mode: TX high channel] [Polarity: Vertical]**
**Radiated Emission Measurement**


Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BLE-TX-H

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Over Detector	Antenna Height cm	Table Degree degree	Comment
1		4960.000	50.80	-6.99	43.81	74.00	-30.19	peak			
2		7440.000	50.81	-2.43	48.38	74.00	-25.62	peak			
3	*	9960.000	48.25	1.92	50.17	74.00	-23.83	peak			

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

(Reference Only)

**Test Result: Pass**

## 5 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

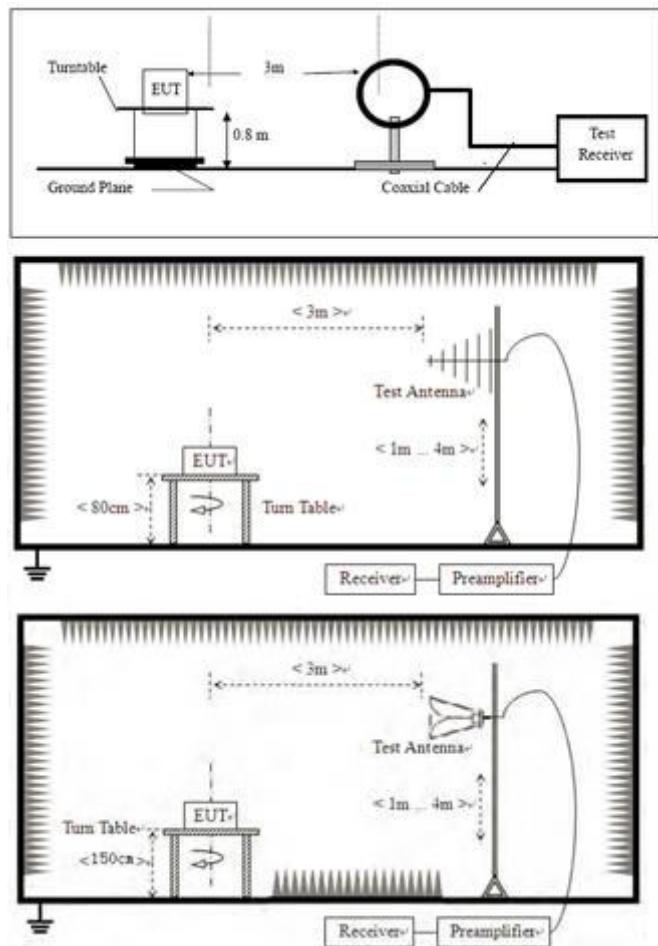
<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 6.10.5
<b>Test Mode (Pre-Scan)</b>	TX Low channel;TX high channel
<b>Test Mode (Final Test)</b>	TX Low channel;TX high channel
<b>Tester</b>	Jozu
<b>Temperature</b>	25 °C
<b>Humidity</b>	60%

### 5.1 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.

## 5.2 BLOCK DIAGRAM OF TEST SETUP



## 5.3 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.

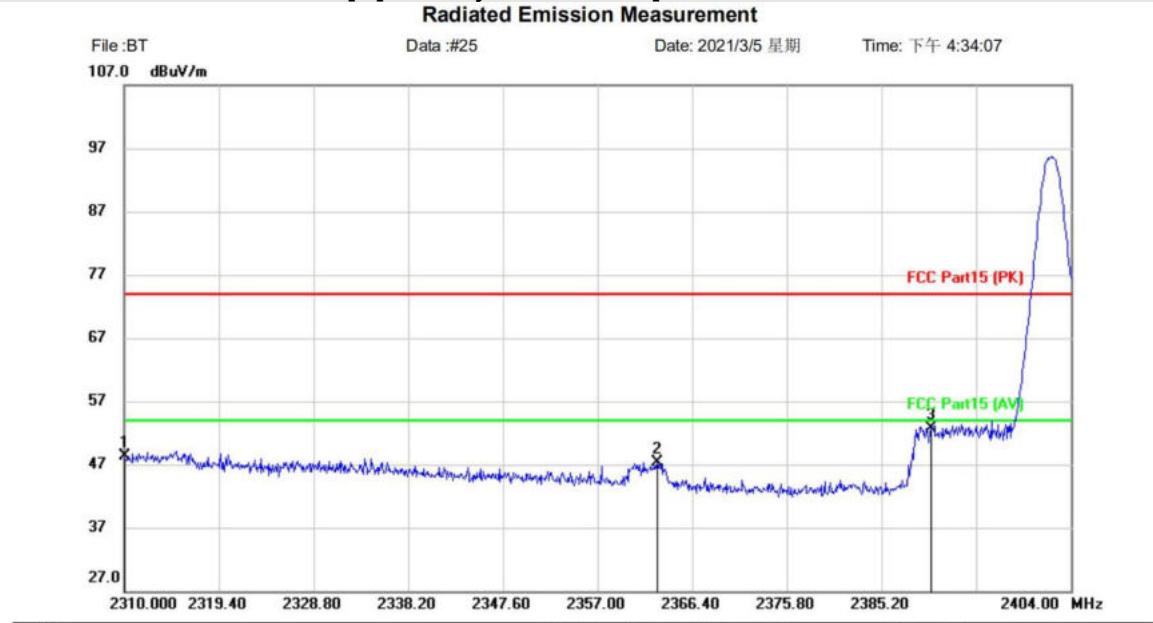
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.

BlueAsia

## 5.4 TEST DATA

[TestMode: TX Low channel]; [Polarity: Horizontal]



Site	Polarization: <i>Horizontal</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Model	Distance: 3m	
M/N: 6223N-SRD		
Mode: BLE-TX-L		
Note:		

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment						
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	63.71	-15.49	48.22	74.00	-25.78	peak			
2		2362.922	62.59	-15.29	47.30	74.00	-26.70	peak			
3	*	2390.000	67.96	-15.18	52.78	74.00	-21.22	peak			

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

⟨Reference Only

## Test Result: Pass

[TestMode: TX Low channel]; [Polarity: Vertical]

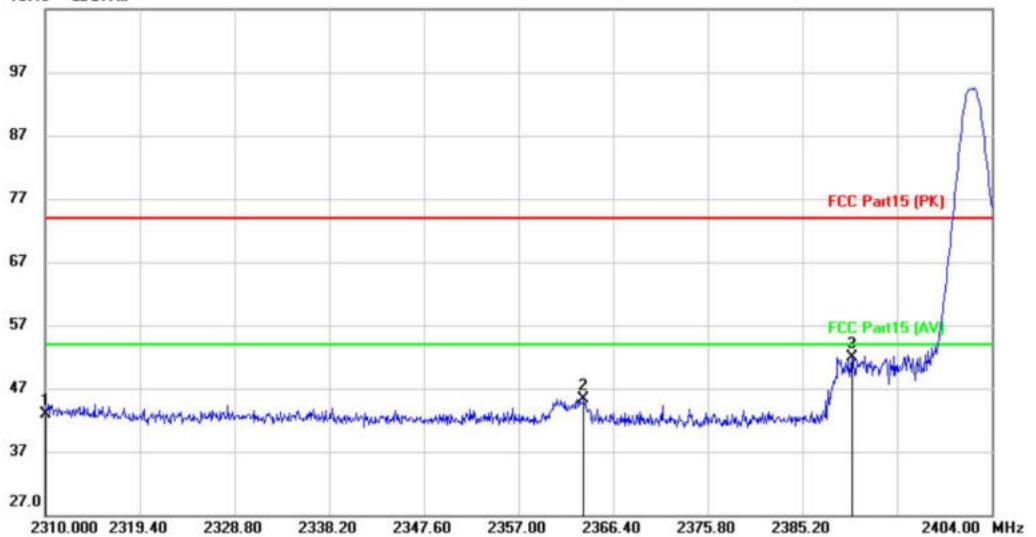
## Radiated Emission Measurement

File :BT

Data :#26

Date: 2021/3/5 星期

Time: 下午 4:35:56



Site

Polarization: *Vertical*

**Temperature:**

Limit: FCC Part15 (PK)

## Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BLE-TX-L

**Note:**

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment						
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	58.45	-15.49	42.96	74.00	-31.04	peak			
2		2363.486	60.67	-15.28	45.39	74.00	-28.61	peak			
3	*	2390.000	66.99	-15.18	51.81	74.00	-22.19	peak			

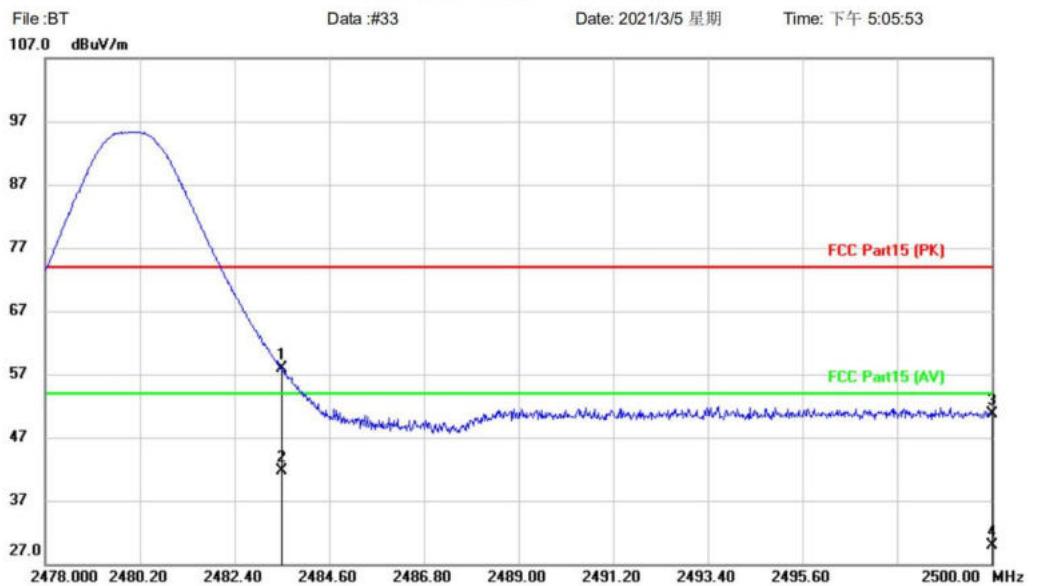
\*:Maximum data x:Over limit !:over margin

〈Reference Only

## Test Result: Pass

[TestMethod: TX high channel]; [Polarity: Horizontal]

## Radiated Emission Measurement



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BLE-TX-H

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 degree	Comment
1		2483.500	72.63	-14.79	57.84	74.00	-16.16	peak		
2	*	2483.500	56.57	-14.79	41.78	54.00	-12.22	AVG		
3		2500.000	65.48	-14.72	50.76	74.00	-23.24	peak		
4		2500.000	44.70	-14.72	29.98	54.00	-24.02	AVG		

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

(Reference Only)

**Test Result: Pass**

[TestMode: TX high channel]; [Polarity: Vertical]

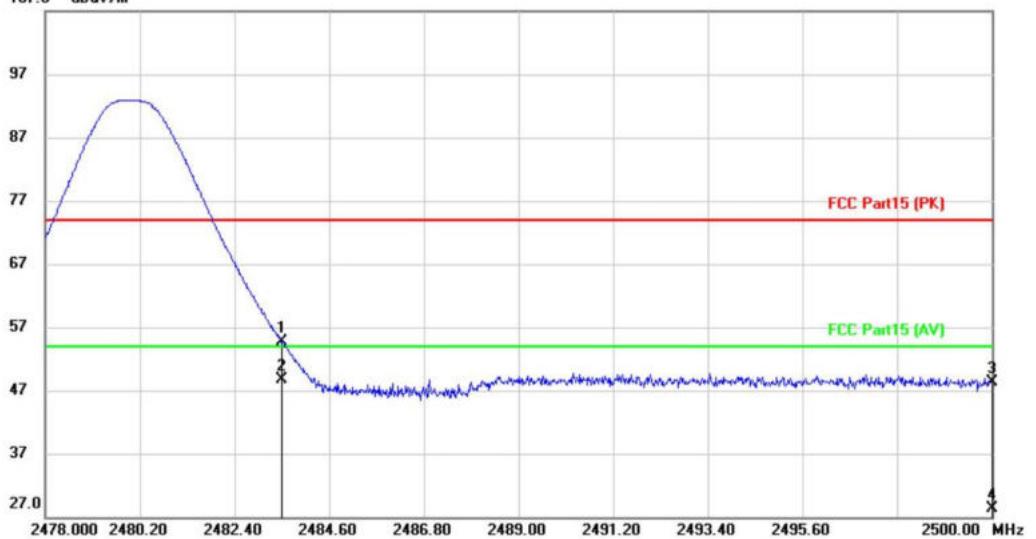
## Radiated Emission Measurement

File :BT  
107.0 dBuV/m

Data :#34

Date: 2021/3/5 星期

Time: 下午 5:09:37



Site

Polarization: *Vertical*

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity:      %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BLE-TX-H

**Note:**

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		2483.500	69.54	-14.79	54.75	74.00	-19.25	peak			
2	*	2483.500	63.54	-14.79	48.75	54.00	-5.25	AVG			
3		2500.000	63.11	-14.72	48.39	74.00	-25.61	peak			
4		2500.000	43.03	-14.72	28.31	54.00	-25.69	AVG			

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

⟨Reference Only

## Test Result: Pass

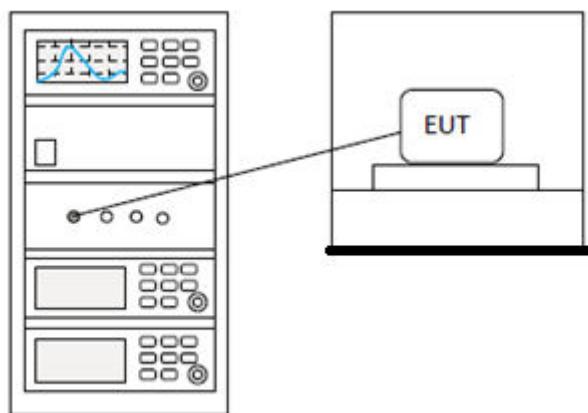
## 6 CONDUCTED SPURIOUS EMISSIONS

<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX
<b>Tester</b>	Jozu
<b>Temperature</b>	25 °C
<b>Humidity</b>	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: Appendix1 For Details**

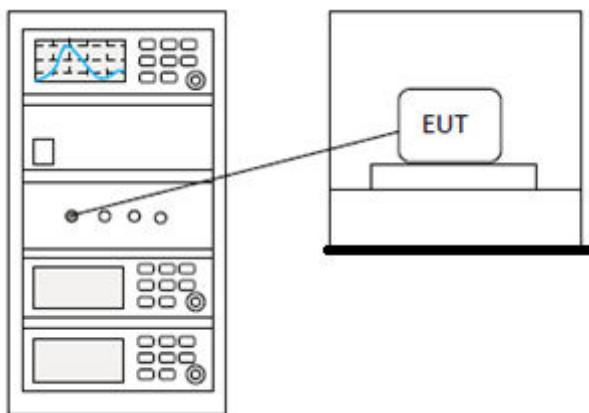
## 7 CONDUCTED PEAK OUTPUT POWER

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

### 7.1 LIMITS

<b>Frequency range(MHz)</b>	<b>Output power of the intentional radiator(watt)</b>
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

### 7.2 BLOCK DIAGRAM OF TEST SETUP



### 7.3 EST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

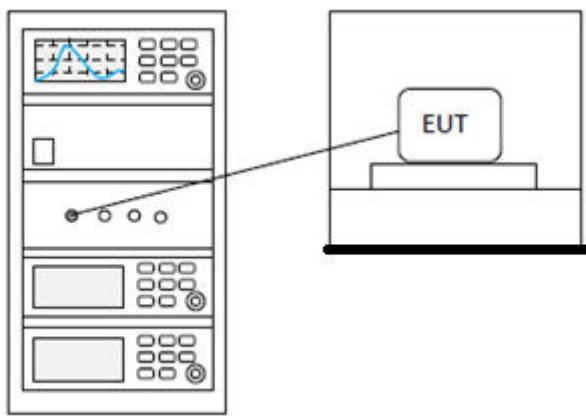
## 8 MINIMUM 6DB BANDWIDTH

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

### 8.1 LIMITS

**Limit:**  $\geq 500$  kHz

### 8.2 BLOCK DIAGRAM OF TEST SETUP



### 8.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

## 9 ANTENNA REQUIREMENT

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

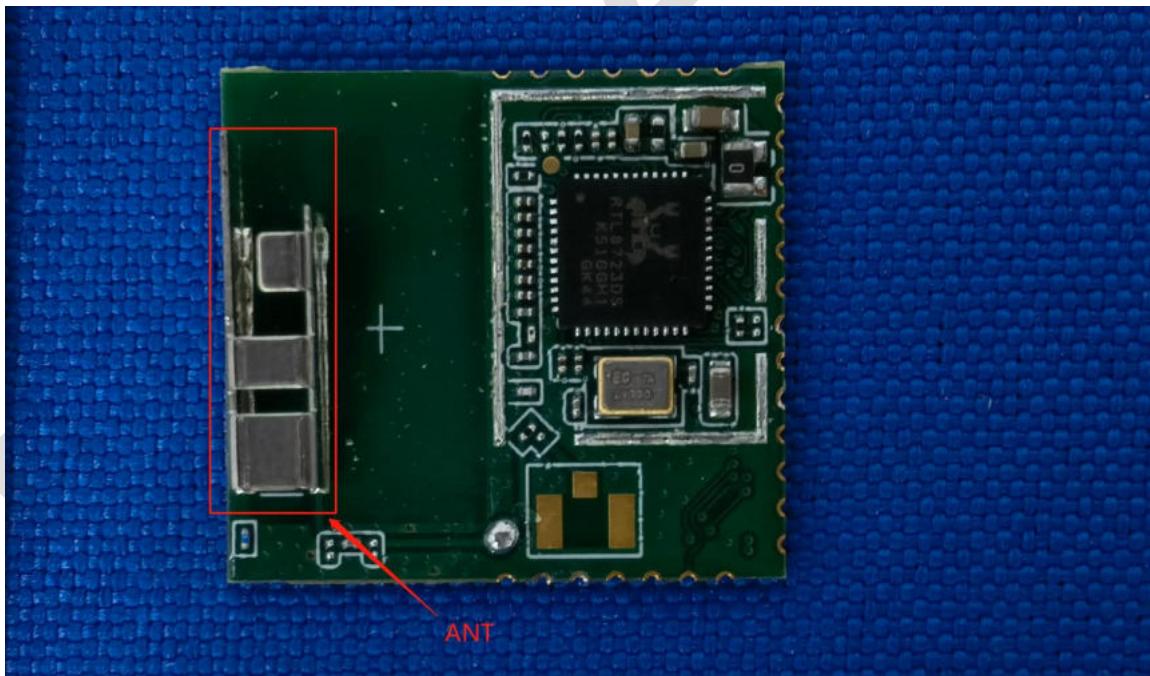
### 9.1 CONCLUSION

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 a 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 1.2dBi.



## 11 APPENDIX

### 11.1 APPENDIX : DTS BANDWIDTH

#### Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.724	2401.628	2402.352	>=0.5	PASS
		2442	0.716	2441.628	2442.344	>=0.5	PASS
		2480	0.708	2479.640	2480.348	>=0.5	PASS

## Test Graphs



## 11.2 APPENDIX : OCCUPIED CHANNEL BANDWIDTH

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0345	2401.488	2402.522	---	PASS
		2442	1.0400	2441.480	2442.520	---	PASS
		2480	1.0525	2479.471	2480.524	---	PASS

## Test Graphs

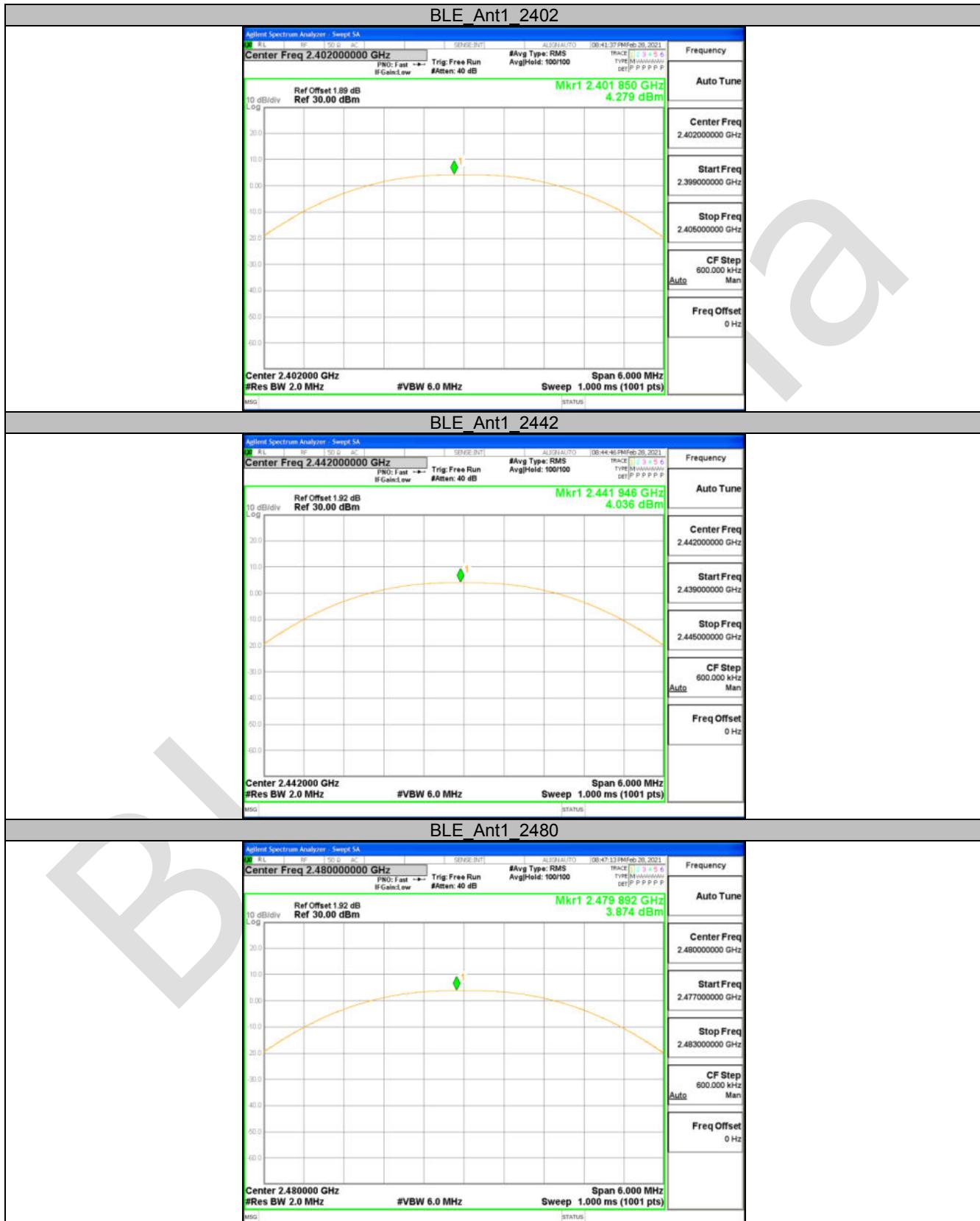


### 11.3 APPENDIX : MAXIMUM CONDUCTED OUTPUT POWER

#### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	4.28	<=30	PASS
		2442	4.04	<=30	PASS
		2480	3.87	<=30	PASS

## Test Graphs

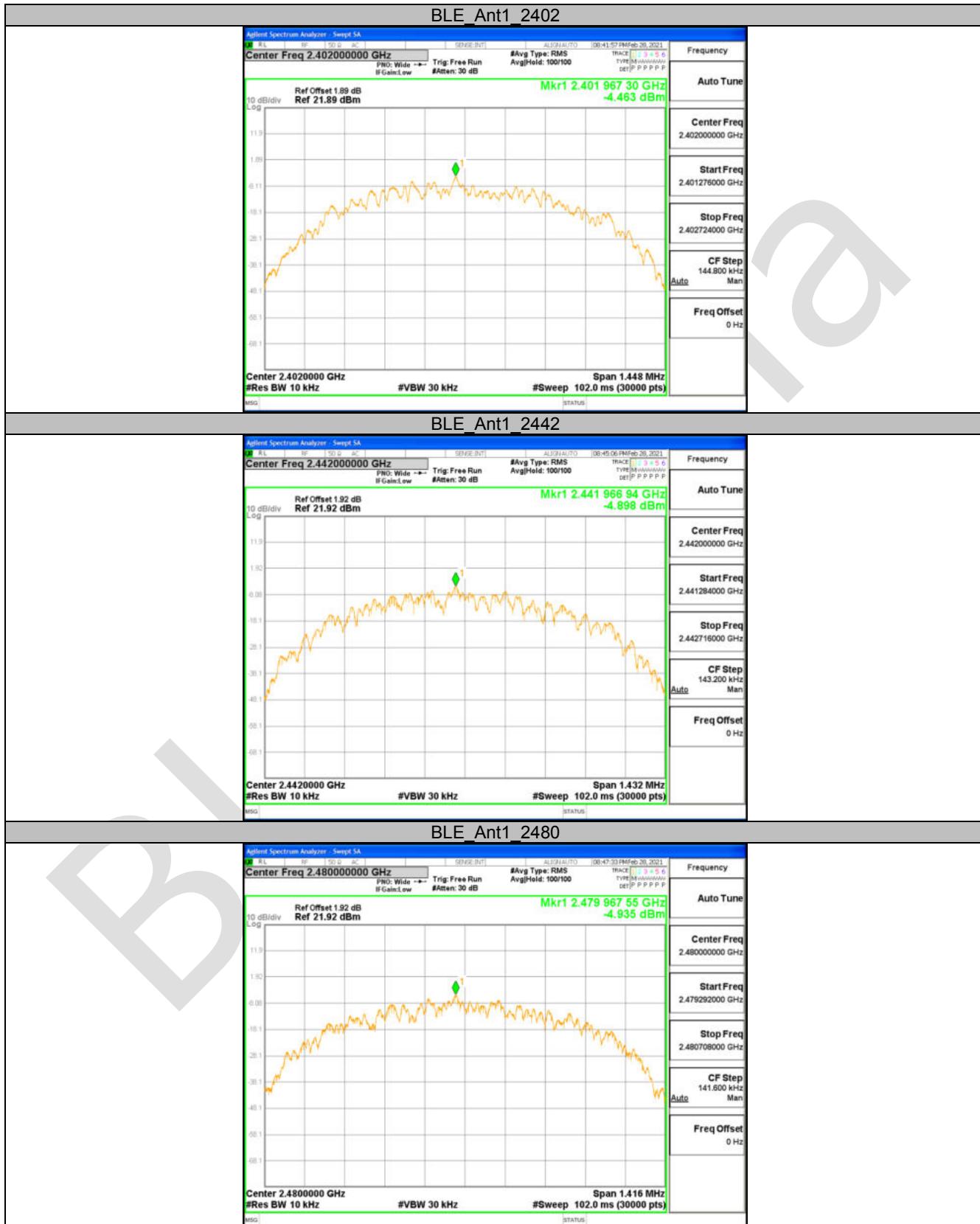


## 11.4 APPENDIX : MAXIMUM POWER SPECTRAL DENSITY

### Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-4.46	<=8	PASS
		2442	-4.90	<=8	PASS
		2480	-4.93	<=8	PASS

## Test Graphs

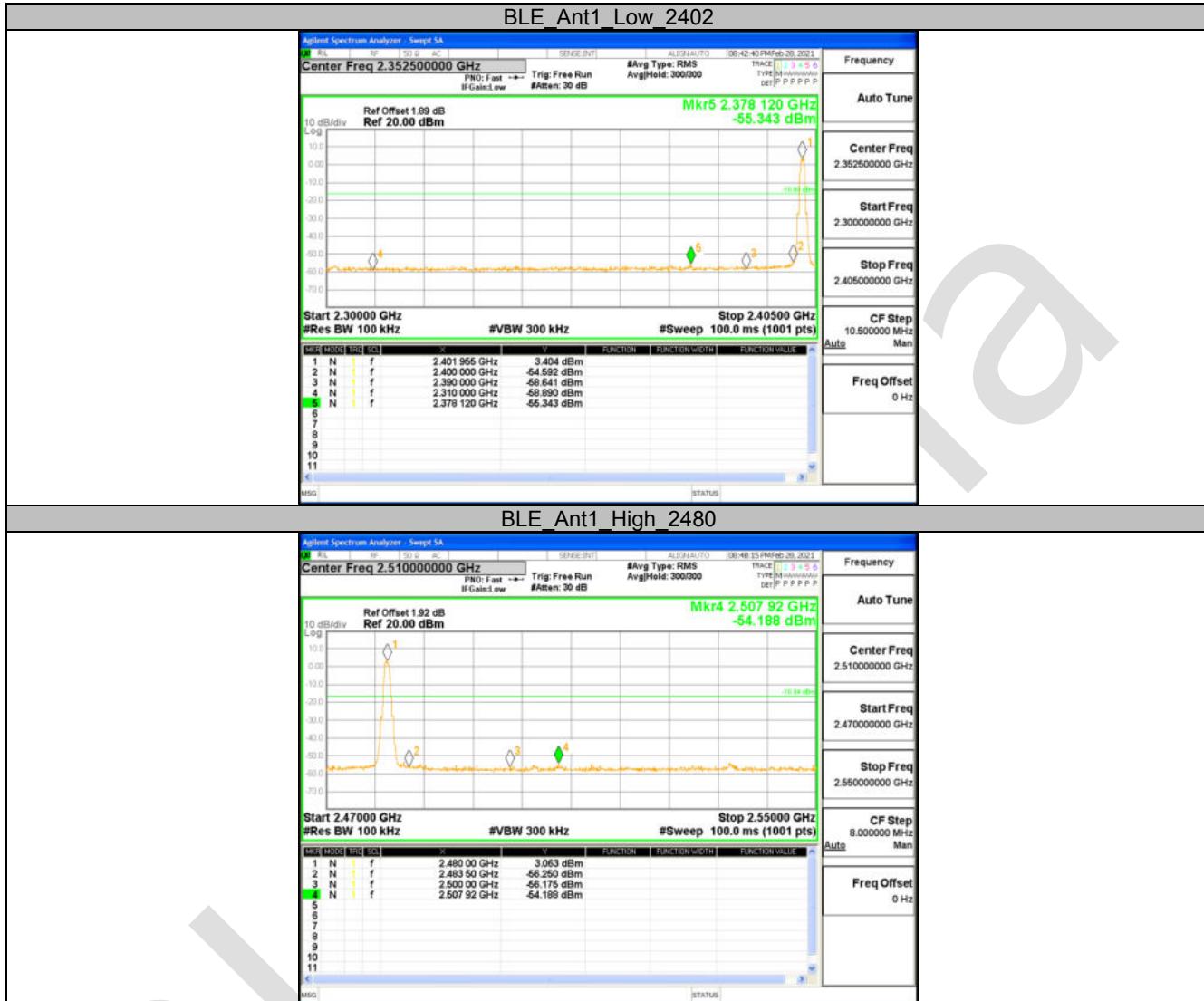


## 11.5 APPENDIX : BAND EDGE MEASUREMENTS

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	3.40	-55.34	<=-16.6	PASS
		High	2480	3.06	-54.19	<=-16.94	PASS

## Test Graphs



## 11.6 APPENDIX : CONDUCTED SPURIOUS EMISSION

### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	3.38	3.38	---	PASS
			30~1000	30~1000	-49.872	<=-26.619	PASS
			1000~26500	1000~26500	-54.001	<=-26.619	PASS
		2442	Reference	3.11	3.11	---	PASS
			30~1000	30~1000	-49.605	<=-26.891	PASS
			1000~26500	1000~26500	-53.303	<=-26.891	PASS
		2480	Reference	3.02	3.02	---	PASS
			30~1000	30~1000	-49.66	<=-26.978	PASS
			1000~26500	1000~26500	-52.111	<=-26.978	PASS

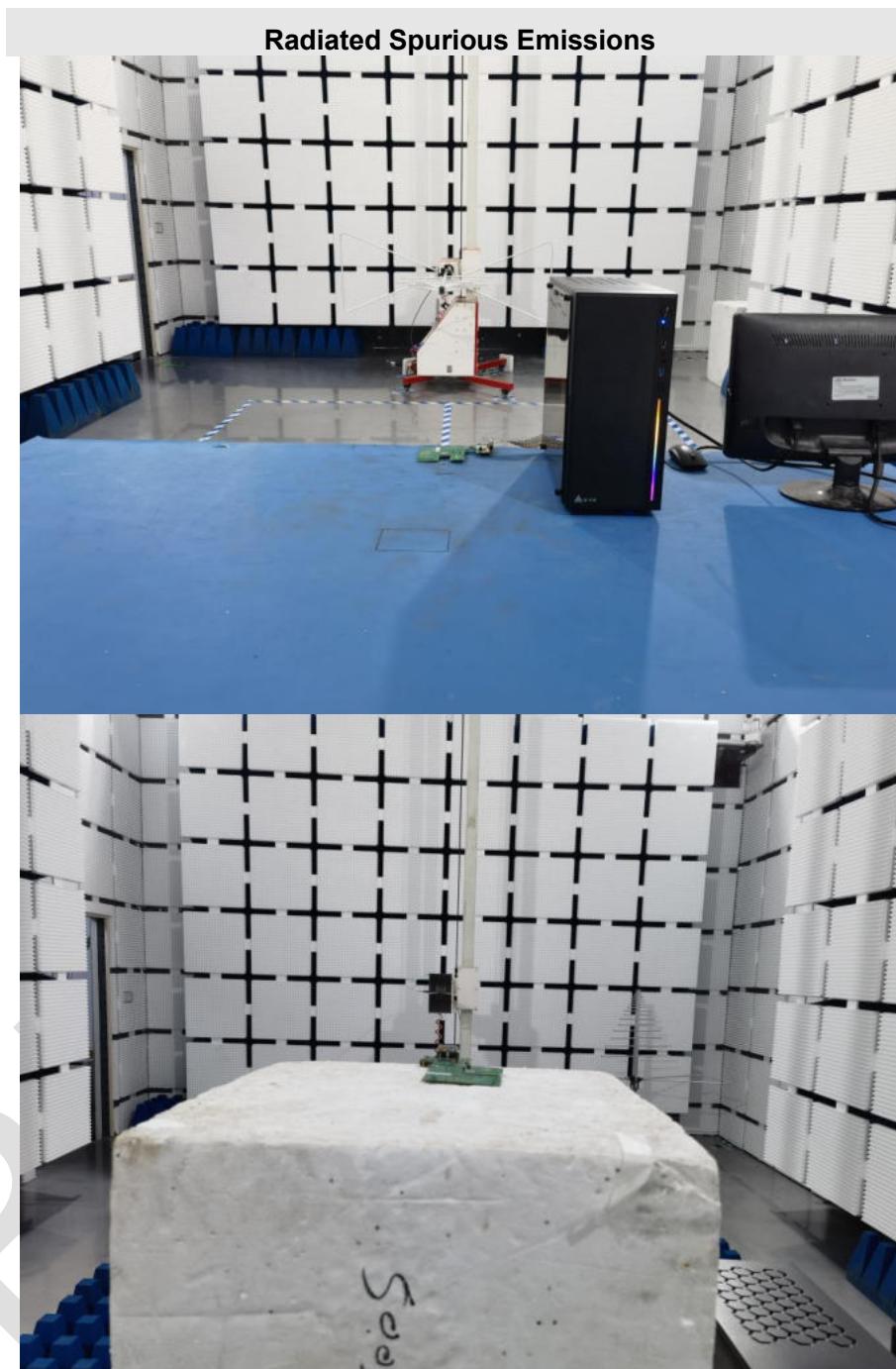
## Test Graphs



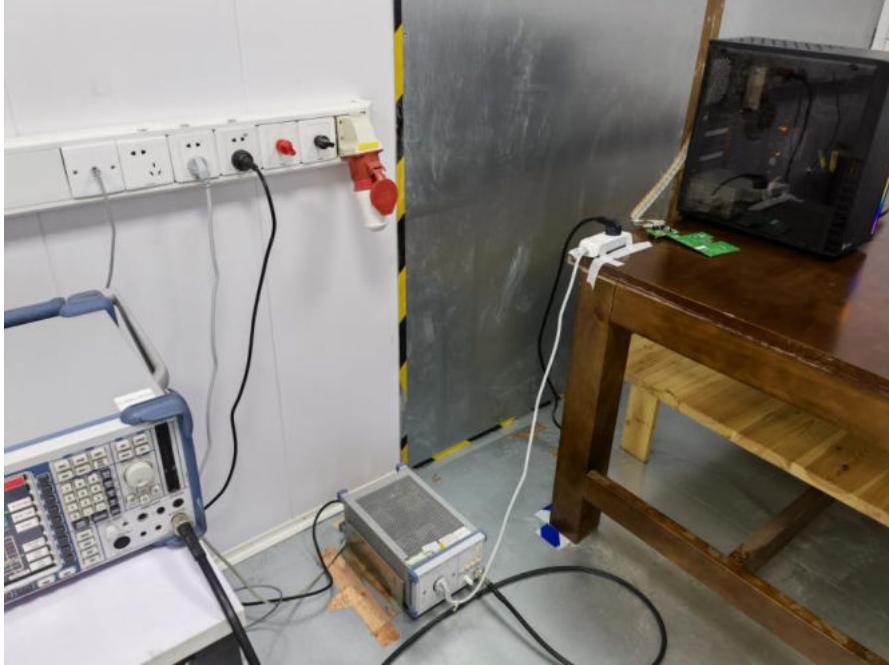




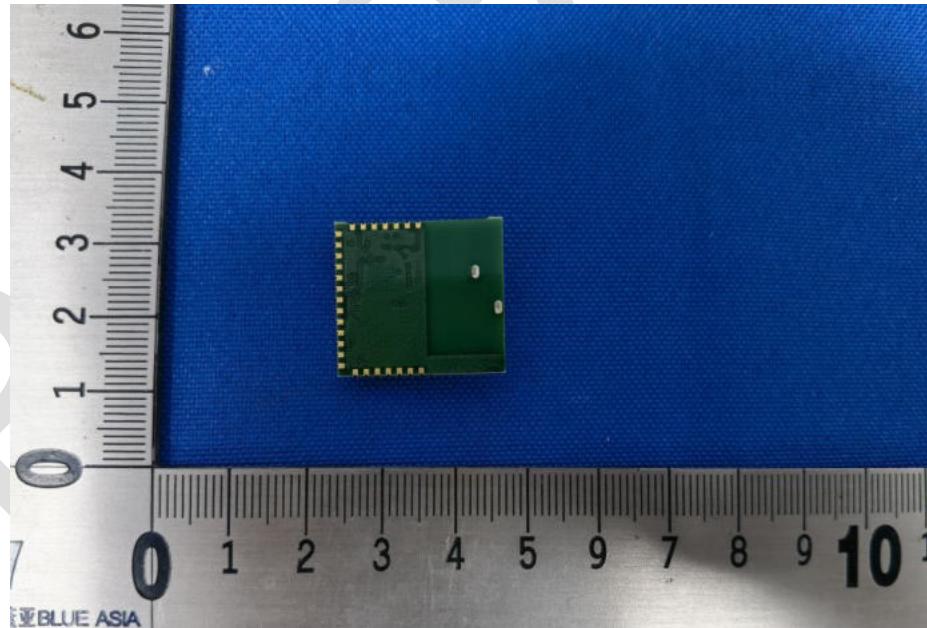
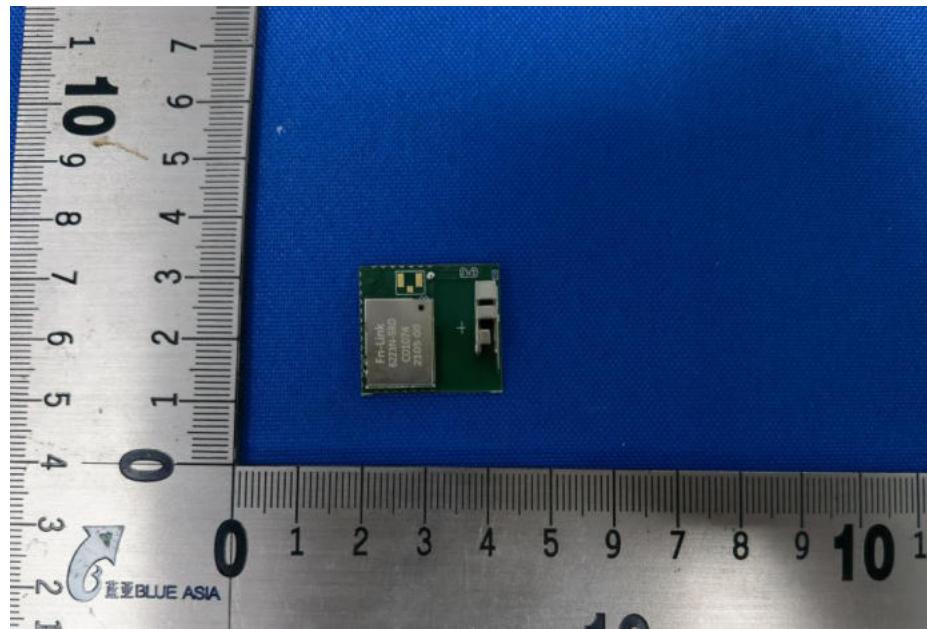
## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

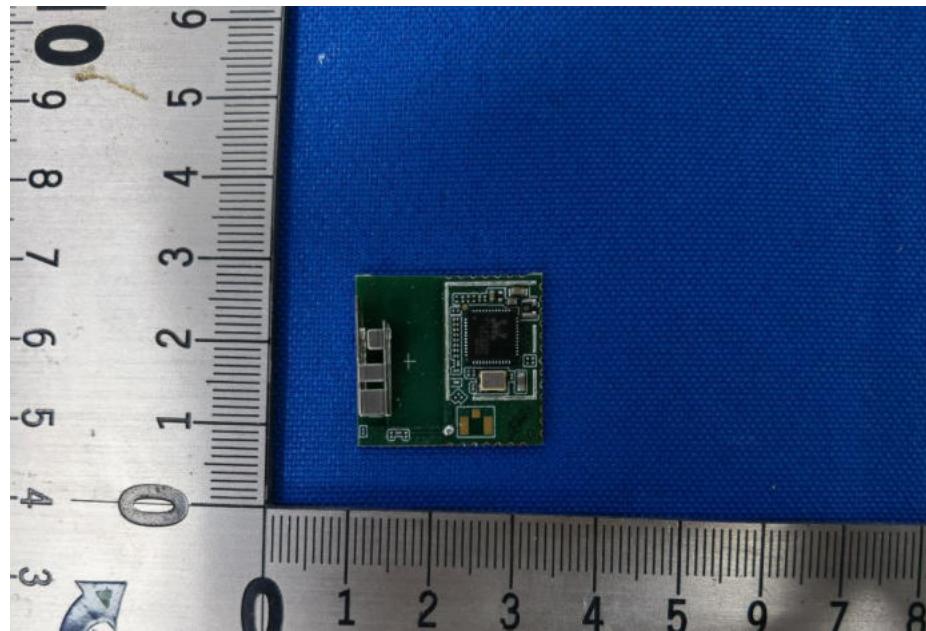


**Conducted Emissions at AC Power Line (150kHz-30MHz)**



## APPENDIX B: PHOTOGRAPHS OF EUT





----END OF REPORT----

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