

#### FCC/IC - TEST REPORT

Report Number :	709502219905-00A	Date of Issue:	October 25, 2022
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Model : BR1

Product Type : BT Remote

Applicant : Nilfisk A/S.

Manufacturer : Nilfisk A/S.

Address : Korrnmarksvej 1, DK-2605 Broendby, DENMARK

Test Result

TÜV SUD

□ Negative

Total pages including Appendices

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China

## 2 Details about the Test Laboratory

### **Details about the Test Laboratory**

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

No.16 Lane, 1951 Du Hui Road,

Shanghai 201108,

P.R. China

FCC Registration

820234

Number:

Designation

CN1183

Number:

IC Company

25988

Number:

CAB identifier: CN0101

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## 3 Description of the Equipment under Test

### **Description of the Equipment Under Test**

Product: BT Remote

Model no.: BR1

FCC ID: 2AVNE-BR1

IC: 25476-BR1

Options and accessories: NA

Rating: DC 3V

RF Transmission Frequency: 2402~2480 MHz

No. of Operated Channel: 40

Modulation: GFSK

Data transmission rate: 1 Mbit/s

Antenna Type: PCB Antenna

Antenna Gain: 4.91 dBi

Description of the EUT: The Equipment Under Test (EUT) is a low-power embedded

Bluetooth module (5.1). We tested it and listed the worst data in

this report.

Test sample no.: SHA-661573-1

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.



# 4 Summary of Test Standards

Test Standards			
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES		
10-1-2014 Edition	Subpart C - Intentional Radiators		
RSS-Gen Issue 5	General Requirements for the Certification of Radio Apparatus		
Amendment 2	. 2		
February 2021			
RSS-247	Digital Transmission Systems (DTSS), Frequency Hopping Systems		
Issue 2 February 2017	(FHSS) and License-Exempt Local Area Network (LE-LAN) Devices		

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 and ANSI C63.10 (2013).



# 5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C	·					
Test Condition		Pages	Test		st Resu	
Tool Containon	T	1 agoo	Site	Pass	Fail	N/A
§15.207 & RSS-GEN 8.8	Conducted emission AC power port		Site 1			
§15.247 (b) (3) & RSS-247 5.4(d)	Conducted peak output power	12-13	Site 1			
§15.247(a)(1) & RSS-247 5.1(b)	20dB bandwidth					
§15.247(a)(1) & RSS-247 5.1(b)	Carrier frequency separation					
§15.247(a)(1)(iii) & RSS-247 5.1(d)	Number of hopping frequencies					
§15.247(a)(1)(iii) & RSS-247 5.1(d)	Dwell Time					
§15.247(a)(2) & RSS-247 5.2(a) & RSSGEN 6.7	6dB bandwidth and 99% Occupied Bandwidth	14-16	Site 1			
§15.247(e) & RSS-247 5.2(b)	Power spectral density	17-18	Site 1			
§15.247(d) & RSS-247 5.5	Spurious RF conducted emissions	19-22	Site 1			
§15.247(d) & RSS-247 5.5	Band edge	23-25	Site 1			
§15.247(d) & §15.209 & RSS-247 5.5 & RSS-Gen 6.13	Spurious radiated emissions for transmitter	26-30	Site 1			
§15.203 & RSS-Gen 6.8	Antenna requirement	See not	e 1			

Remark 1: N/A - Not Applicable.

Note 1: The EUT uses a PCB Antenna, which gain is 4.91dBi. In accordance to §15.203 and RSS-Gen 6.8, It is considered sufficiently to comply with the provisions of this section.



### 6 General Remarks

#### **Remarks**

This submittal(s) (test report) is intended for FCC ID: 2AVNE-BR1, IC: 25476-BR1 complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules and RSS-247, RSS-GEN.

#### SUMMARY:

All tests according to the regulations cited on page 5 were

- - Performed
- □ Not Performed

The Equipment under Test

- - Fulfills the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date: July 8, 2022

Testing Start Date: July 8, 2022

Testing End Date: October 10, 2022

-TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:

Prepared by:

Tested by:

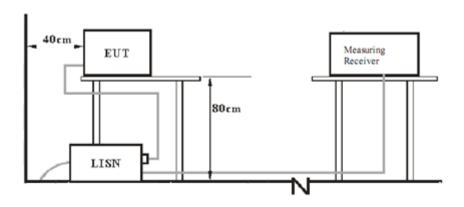
Hui TONG EMC Section Manager Wenqiang LU EMC Project Engineer

Yiqaun WANG EMC Test Engineer



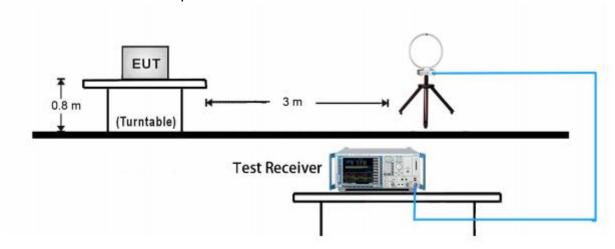
# 7 Test Setups

### 7.1 AC Power Line Conducted Emission test setups



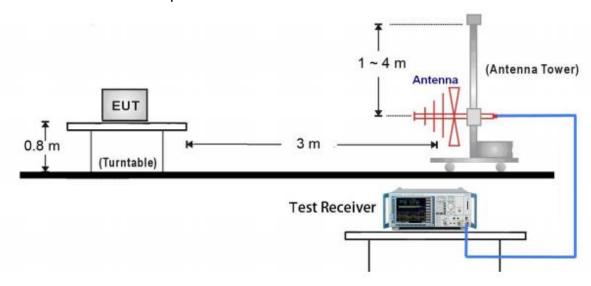
## 7.2 Radiated test setups

### 9kHz ~ 30MHz Test Setup:

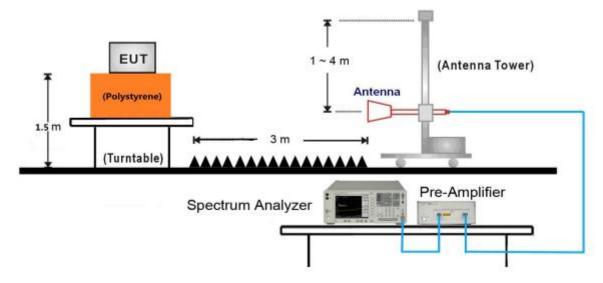




### 30MHz ~ 1GHz Test Setup:

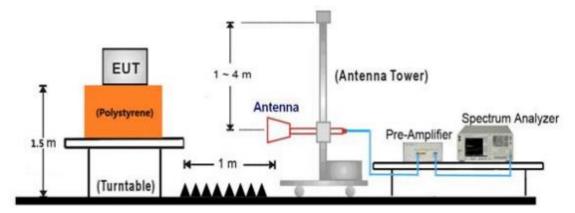


#### 1GHz ~ 18GHz Test Setup:

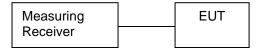




## 18GHz ~ 25GHz Test Setup:



## 7.3 Conducted RF test setups





# 8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenove	X240	Notebook

Test software: SmartSnippets(TM) Toolbox User Manual (UM-B-083)

The system was configured to channel 0, 19, and 39 for the test.

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.



## 9 Technical Requirement

### 9.1 Conducted peak output power

#### **Test Method**

- Use the following spectrum analyzer settings:
   RBW > the 6 dB bandwidth of the emission being measured, VBW≥3RBW, Span≥3RBW
   Sweep = auto, Detector function = peak, Trace = max hold.
- 2. Add a correction factor to the display.
- 3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.

#### Limits

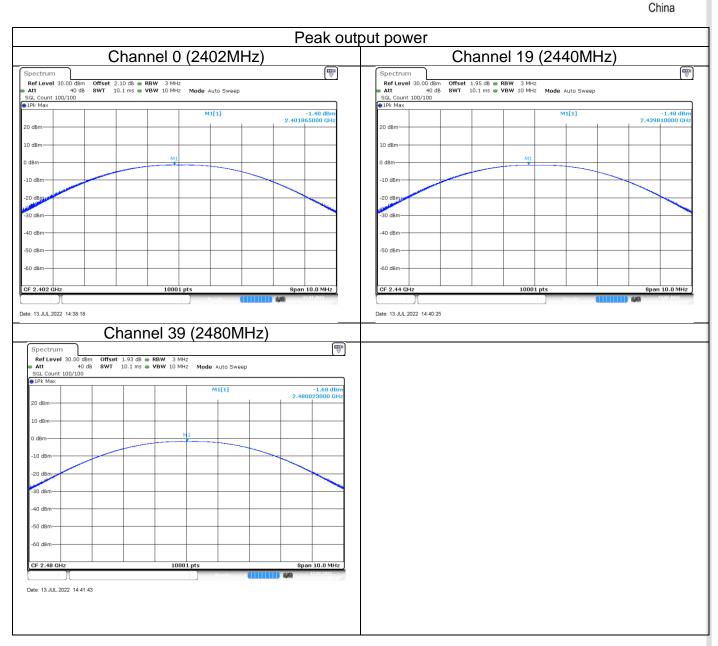
According to §15.247 (b) (3) & RSS-247 5.4(d), conducted peak output power limit as below:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30
Frequency Range MHz	Limit (EIRP) W	Limit dBm
2400-2483.5	≤4	≤36

Test result as below table

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	-1.4	Pass
Middle channel 2440MHz	-1.48	Pass
High channel 2480MHz	-1.68	Pass
Frequency MHz	EIRP dBm	Result
Low channel 2402MHz	3.51	Pass
Middle channel 2440MHz	3.43	Pass
High channel 2480MHz	3.23	Pass







### 9.2 6dB bandwidth and 99% Occupied Bandwidth

#### **Test Method**

- Use the following spectrum analyzer settings:
   RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
- 3. Allow the trace to stabilize, record the X dB Bandwidth value.

#### Limit

Limit [kHz]	
 ≥500	

#### Test Method for 99 % Bandwidth

- 1. Use the following spectrum analyzer settings: RBW=1% to 5% of the actual occupied, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Use the automatic bandwidth measurement capability of an instrument, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
- 3. Allow the trace to stabilize, record the X dB Bandwidth value.

#### Limit

Limit [kHz]

#### Test result

Frequency MHz	6dB bandwidth kHz	99% Occupied Bandwidth MHz	Result
Top channel 2402MHz	688	1.045	Pass
Middle channel 2440MHz	661	1.055	Pass
Bottom channel 2480MHz	719	1.057	Pass



China 6dB Bandwidth Channel 0 (2402MHz) Channel 19 (2440MHz) Ref Level 30.00 dBm

Att 40 dB

SGL Count 100/100

1Pk Max 
 Ref Level
 30.00 dBm
 Offset
 2.10 dB
 RBW
 100 kHz

 Att
 40 dB
 SWT
 18.9 µs
 VBW
 300 kHz
 Mode
 Auto FFT
 -30 dBm-40 dBm -40 dBm Span 3.0 MHz CF 2.44 GH Span 3.0 MHz CF 2.402 GHz 10001 pt Type Ref Trc X-value 2.4020321 GHz 2.401704 GHz 2.402392 GHz -7.67 dBm -7.63 dBm Date: 13.JUL.2022 14:38:27 Date: 13.JUL.2022 14:40:34 Channel 39 (2480MHz) Spectrum

Ref Level 30.00 dBm Offset 1.93 dB 

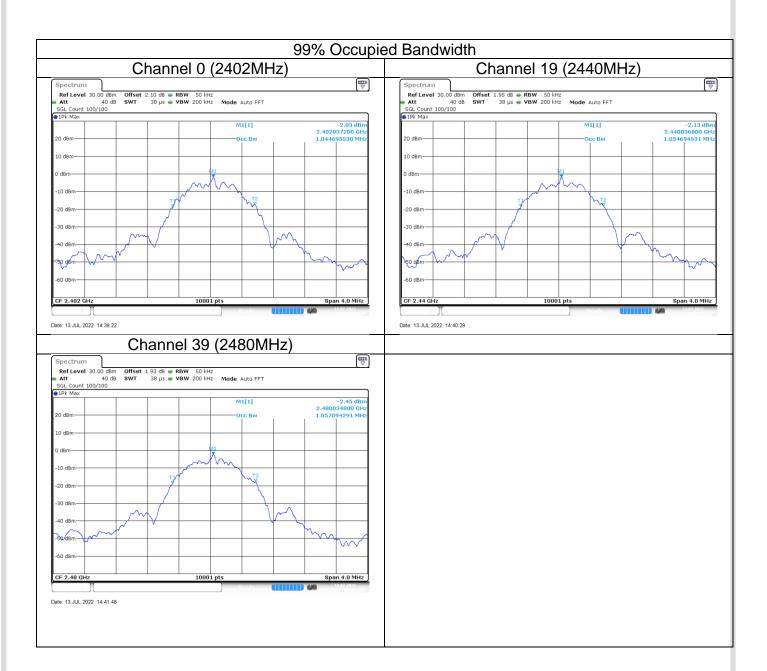
Att 40 dB SWT 18.9 μs 

VBW 300 kHz Mode Auto FFT 

SGL Count 100/100 M2[1] -20 dBm -30 dBm Span 3.0 MHz Type | Ref | Trc | X-value 2.48005009 GHz 2.479675 GHz 2.480394 GHz Y-value -2.43 dBm -8.43 dBm -8.40 dBm Function **Function Result** 

Date: 13.JUL.2022 14:41:53







## 9.3 Power spectral density

#### **Test Method**

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- Set analyzer center frequency to DTS channel center frequency.
   RBW=3kHz,VBW≥3RBW,Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 3. Repeat above procedures until other frequencies measured were completed.

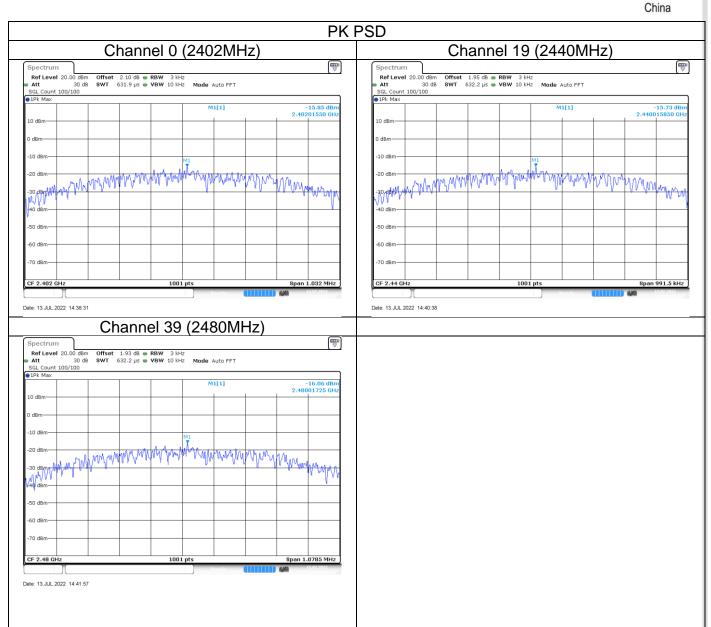
#### Limit

Lin	nit [dBm/3kHz	]
	≤8	

Test result

Power spectral				
Frequency	Frequency density Result			
MHz	d	Bm/3kHz		
Top channel 2402N	1Hz	-15.85	Pass	
Middle channel 2440	MHz	-15.73	Pass	
Bottom channel 2480	)MHz	-16.06	Pass	







## 9.4 Spurious RF conducted emissions

#### **Test Method**

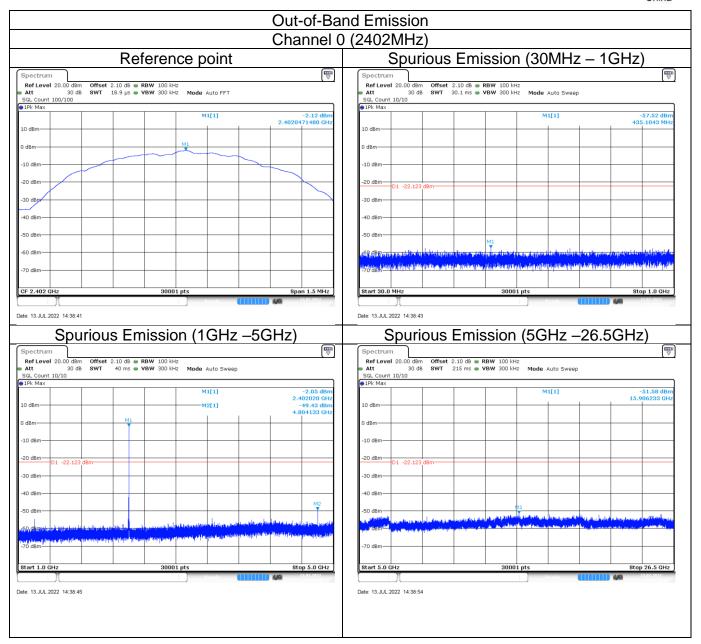
- 1. Establish a reference level by using the following procedure:
  - a. Set RBW=100 kHz. VBW≥3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
  - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
- 2. Use the maximum PSD level to establish the reference level.
  - a. Set the center frequency and span to encompass frequency range to be measured.
  - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
- 3. Repeat above procedures until other frequencies measured were completed.

#### Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



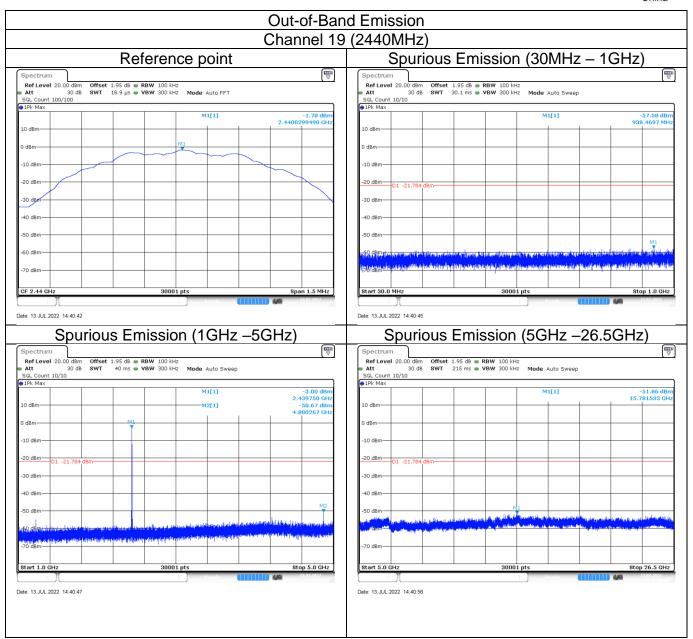
China



Note: The emission which exceed the limit is the fundamental.



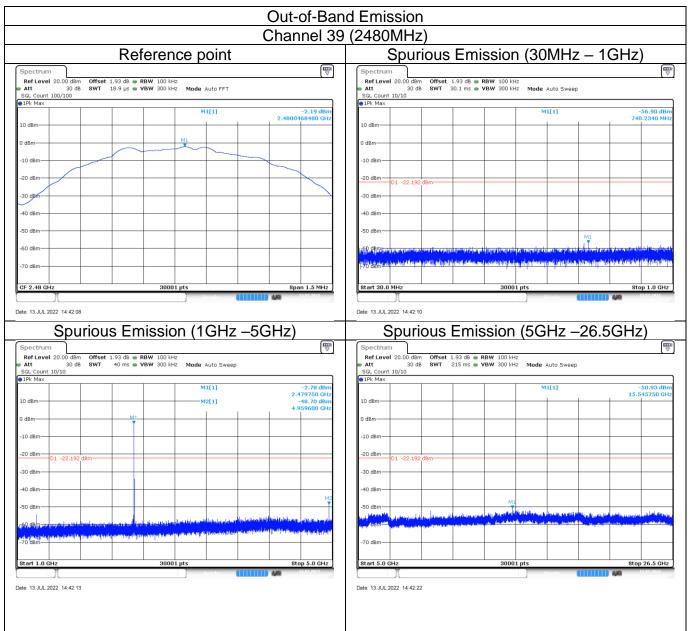
China



Note: The emission which exceed the limit is the fundamental.







Note: The emission which exceed the limit is the fundamental.



## 9.5 Band edge

#### **Test Method**

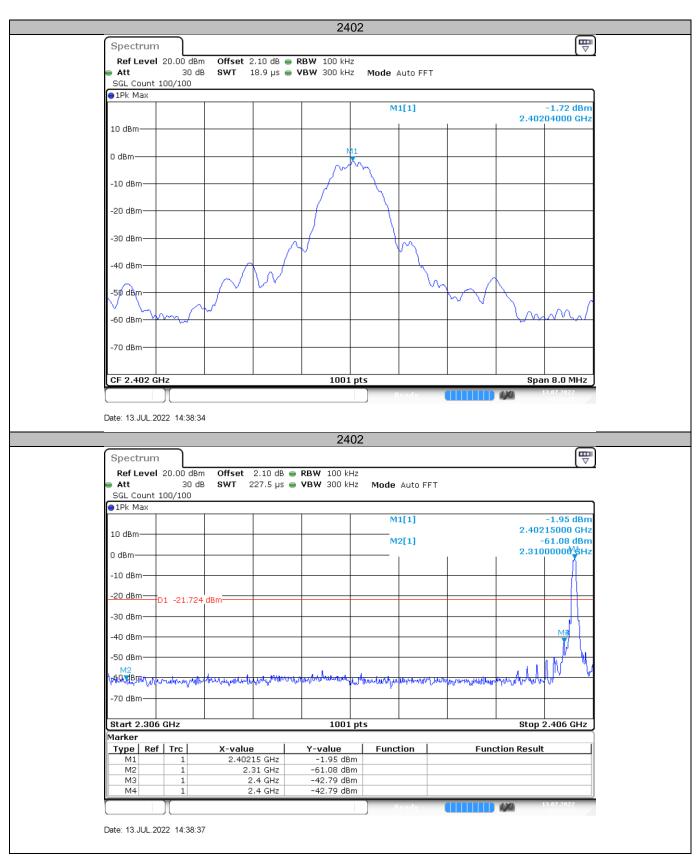
- 1 Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

#### Limit

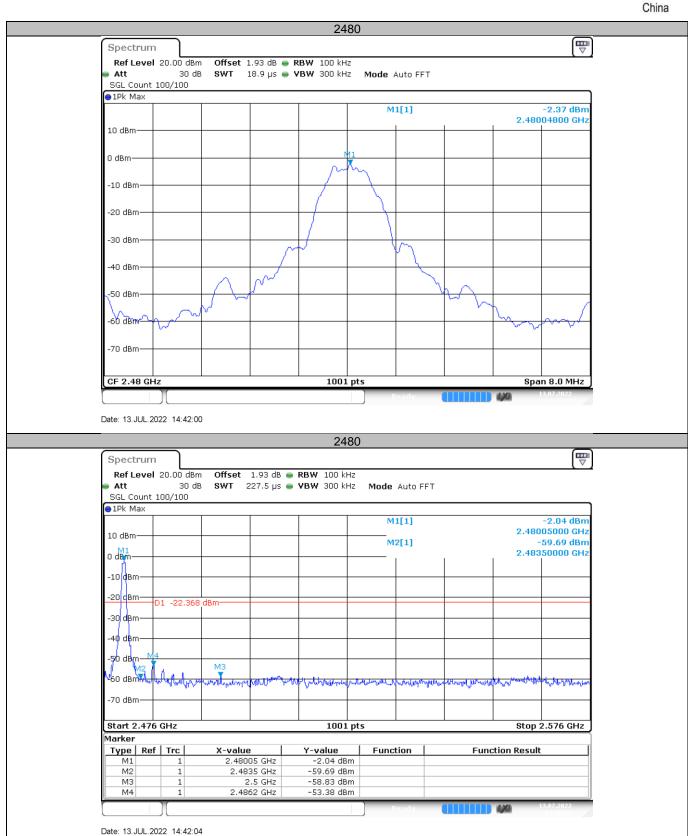
According to §15.247(d) and RSS-247 5.5, in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) and RSS-Gen8.10, must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)) and RSS-Gen.



Test result China









### 9.6 Spurious radiated emissions for transmitter

#### **Test Method**

- 1. The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. 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.
- 4. 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.
- 5. Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz to 120 kHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

- a) RBW = 1MHz.
- b)  $VBW \ge [3 \times RBW]$ .
- c) Detector = RMS (power averaging), if [span / (# of points in sweep)]  $\leq$  RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
- 1) If power averaging (rms) mode was used in the preceding step e), then the correction



factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty <sup>China</sup> cycle was 50%, then 3 dB shall be added to the measured emission levels.

- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

#### Limit

The radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section15.205 and RSS-GEN 8.10 must comply with the radiated emission limits specified in section 15.209.

Frequency	Field Strength	Measured Distance
MHz	uV/m	Meters
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30	30	30

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



### Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case (which is subject to the maximum EIRP) test result is listed in the report.

### Transmitting spurious emission test result as below:

Channel (2402MHz)						
Frequency	Mmission Level	Limit	Margin	Detector	Polarization	
MHz	dBuV/m	dBμV/m	dB			
2384.0	50.42	74.0	23.58	Peak	Horizontal	
4804.6	46.21	74.0	27.79	Peak	Horizontal	
2378.4	56.12	74.0	17.88	Peak	Vertical	
2378.4	39.10	54.0	14.90	Average	Vertical	
5596.2	44.11	74.0	29.89	Peak	Vertical	
		<b>0</b> 1 1 (	04408411-\			
	Mmission	Channel (	2440MHZ)			
Frequency	Level	Limit	Margin	Detector	Polarization	
MHz	dBuV/m	dBμV/m	dB			
4879.4	45.77	74.0	28.23	Peak	Horizontal	
1592.7	36.50	74.0	37.50	Peak	Vertical	
		Channel (	2480MHz)			
_	Mmission	•	•	_		
Frequency	Level	Limit	Margin	Detector	Polarization	
MHz	dBuV/m	dBμV/m	dB			
2483.8	62.70	74.0	11.30	Peak	Horizontal	
2483.8	35.70	54.0	18.30	Average	Horizontal	
4960.4	46.71	74.0	27.29	Peak	Horizontal	
2483.8	60.19	74.0	13.81	Peak	Vertical	
2483.8	33.30	54.0	20.70	Average	Vertical	
4959.3	43.96	74.0	30.04	Peak	Vertical	

#### Remark:

- (1) Emission level= Original Receiver Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss Amplifier gain
- (3) Margin = limit Corrected Reading



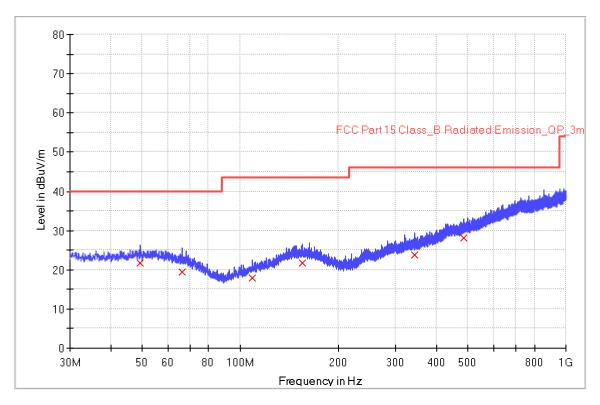
The worst case of Radiated Emission below 1GHz:

C	hi	na	

Site: 3 meter chamber	Time: 2022/10/10 - 16:02
Limit: FCC_Part15.209 and RSS-GEN 8.8_RE(3m)	Engineer: Wenqiang LU
Probe: VULB9168	Polarity: Horizontal
UT: BT Remote, Model no: BR1	Power: 3VDC
Note: Transmit by at channel 2402MHz	

Note: Pre-scan with three orthogonal axis and worst case as X axis.

RE\_VULB9168\_pre\_Cont\_30-1000



**Limit and Margin** 

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
49.400000	21.8	1000.0	120.000	200.0	Н	24.0	20.5	18.2	40.0
66.320000	19.4	1000.0	120.000	100.0	Н	52.0	19.2	20.6	40.0
109.120000	18.0	1000.0	120.000	100.0	Н	86.0	17.2	25.5	43.5
154.680000	21.8	1000.0	120.000	150.0	Н	129.0	21.0	21.7	43.5
343.800000	23.9	1000.0	120.000	150.0	Н	184.0	22.6	22.1	46.0
486.200000	28.1	1000.0	120.000	200.0	Н	235.0	26.3	17.9	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

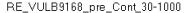
Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

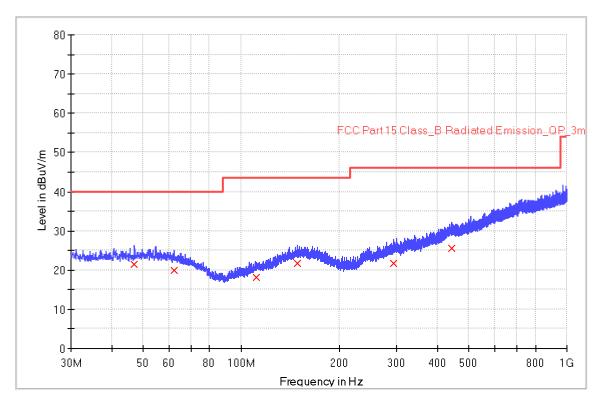


Site: 3 meter chamber	Time: 2022/10/10 - 17:24
Limit: FCC_Part15.209 and RSS-GEN 8.8_RE(3m)	Engineer: Wenqiang LU
Probe: VULB9168	Polarity: Vertical
UT: BT Remote, Model no: BR1	Power: 3VDC
Note: Transmit by at channel 2/02MHz	

Note: Transmit by at channel 2402MHz.

Note: Pre-scan with three orthogonal axis and worst case as X axis.





**Limit and Margin** 

	9								
Frequency	QuasiPeak	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.	Margin -	Limit -
(MHz)	(dBuV/m)	Time	(kHz)	(cm)		(deg)	(dB)	QPK	QPK
		(ms)						(dB)	(dBuV/m)
47.040000	21.5	1000.0	120.000	150.0	٧	32.0	20.5	18.5	40.0
62.320000	19.9	1000.0	120.000	100.0	V	77.0	19.7	20.1	40.0
111.320000	18.2	1000.0	120.000	100.0	V	105.0	17.5	25.3	43.5
148.680000	21.8	1000.0	120.000	150.0	٧	144.0	21.0	21.7	43.5
294.440000	21.8	1000.0	120.000	200.0	٧	182.0	21.3	24.2	46.0
443.400000	25.6	1000.0	120.000	100.0	٧	224.0	25.7	20.4	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range:  $9kHz \sim 30MHz$ ,  $18GHz \sim 25GHz$ ), therefore no data appear in the report.



# 10 Test Equipment List

#### List of Test Instruments Test Site1

1000 0101						
	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
С	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2022-8-1	2023-7-31
	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2022-8-1	2023-7-31
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2022-8-1	2023-7-31
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	961	2021-9-23	2024-9-22
	Horn Antenna	Rohde & Schwarz	HF907	102393	2021-4-13	2024-4-12
RE	Pre-amplifier	Rohde & Schwarz	SCU-18D	19006451	2022-8-1	2023-7-31
	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2022-6-13	2023-6-12
	Double Ridged Horn Antenna	ETS-Lindgren	3116C	002222727	2020-9-23	2023-9-22
	Pre-amplifier	ETS-Lindgren	3116C-PA		2021-9-17	2022-9-16
	3m Semi-anechoic chamber	TDK	9X6X6		2021-5-8	2024-5-7
	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2022-8-1	2023-7-31
CE	LISN	Rohde & Schwarz	ENV216	101924	2022-8-1	2023-7-31
		Measurement S	Software Inform	ation		
Test Item	Software	Manufacturer		Vers	sion	
С	Bluetooth and WiFi Test System	Shenzhen JS tonscend co.,ltd	2.6.77.0518			
RE	EMC 32	Rohde & Schwarz		V10.5	50.40	
CE	EMC 32	Rohde & Schwarz		V9.1	5.03	

#### C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density\*
- Spurious RF conducted emissions
- Band edge



## 11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, 3.16dB
Radiated Disturbance	30MHz to 1GHz, 5.03dB (Horizontal) 5.12dB (Vertical) 1GHz to 18GHz, 5.49dB 18GHz to 40GHz, 5.63dB
Carrier power conducted measurement	50MHz~18GHz, 1.238dB
Spurious Emission Conducted Measurement	9kHz ~40GHz, 1.224dB

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.



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# 12 Photographs of Test Set-ups

Refer to the < Test Setup photos >.



# 13 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

THE END