

# **TEST REPORT**

Product Name : BT module

Brand Mark : N/A

Model No. : RF-BM-BG22B1

Report Number : BLA-EMC-202206-A1401

FCC ID : 2ABN2-BG22B1

Date of Sample Receipt : 2022/6/2

**Date of Test** : 2022/6/2 to 2022/6/16

**Date of Issue** : 2022/6/16

Test Standard : 47 CFR Part 15, Subpart C 15.247

Test Result : Pass

### Prepared for:

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Jozu Blue Thong

Review by:

Approved by:

Date:







Page 2 of 74

### **REPORT REVISE RECORD**

Version No.	Date	Description		
00	2022/6/16	Original		





### **TABLE OF CONTENTS**

1	TI	EST SUMMARY	5
2	G	ENERAL INFORMATION	6
3	G	ENERAL DESCRIPTION OF E.U.T.	6
4	Ti	EST ENVIRONMENT	7
5	TI	EST MODE	7
6	М	EASUREMENT UNCERTAINTY	7
7	יח	ESCRIPTION OF SUPPORT UNIT	s
		ABORATORY LOCATION	
8	L	EST INSTRUMENTS LIST	ბ
9			
10	C	ONDUCTED BAND EDGES MEASUREMENT	
	10.1		
	10.2		
	10.3		
11	R	ADIATED SPURIOUS EMISSIONS	
	11.1		
	11.2		
	11.3		
	11.4	TEST DATA	17
12	R	ADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	25
	12.1	LIMITS	25
	12.2	BLOCK DIAGRAM OF TEST SETUP	26
	12.3	PROCEDURE	26
	12.4	TEST DATA	28
13	C	ONDUCTED SPURIOUS EMISSIONS	32
	13.1	LIMITS	32
	13.2	BLOCK DIAGRAM OF TEST SETUP	32
	13.3	TEST DATA	33
14	P	OWER SPECTRUM DENSITY	34
	14.1	LIMITS	34
	14.2	BLOCK DIAGRAM OF TEST SETUP	34



Page 4 of 74

14.3	TEST DATA	34
15 (	ONDUCTED PEAK OUTPUT POWER3	35
15.1	LIMITS	35
15.2	BLOCK DIAGRAM OF TEST SETUP	35
15.3	TEST DATA	36
16 N	NIMUM 6DB BANDWIDTH3	37
16.1	LIMITS	
16.2	BLOCK DIAGRAM OF TEST SETUP	
16.3	TEST DATA	
17 /	ITENNA REQUIREMENT3	
17.1	CONCLUSION	38
18 (	ONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)3	39
18.1	LIMITS	39
18.2	BLOCK DIAGRAM OF TEST SETUP	
18.3	PROCEDURE	39
18.4	TEST DATA	
19 <i>A</i>	PPENDIX4	13
	DIX A: PHOTOGRAPHS OF TEST SETUP7	
<b>ADDE</b>	DIX B. PHOTOGRAPHS OF FUT	7:



Page 5 of 74

### 1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
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	2013) Section 47 CFR Part 15, Subpart C .8.8 & Section 15.247(d)	
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
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 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
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



Page 6 of 74

### 2 GENERAL INFORMATION

Applicant	ShenZhen RF-STAR Technology CO.,LTD
Address	2F,BLDG.8,Zone A,BaoAn Internet Industry Base, BaoYuan Road,XiXiang, BaoAn DIST, ShenZhen China
Manufacturer	ShenZhen RF-STAR Technology CO.,LTD
Address	2F,BLDG.8,Zone A,BaoAn Internet Industry Base, BaoYuan Road,XiXiang, BaoAn DIST, ShenZhen China
Factory	ShenZhen RF-STAR Technology CO.,LTD
Address	2F,BLDG.8,Zone A,BaoAn Internet Industry Base, BaoYuan Road,XiXiang, BaoAn DIST, ShenZhen China
Product Name	BT module
Test Model No.	RF-BM-BG22B1

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

Hardware Version	1.0
Software Version	1.0
Power supply	DC3.3V
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data	1Mbps(BLE1M), 2Mbps(BLE2M)
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	0 dBi(Provided by the applicant)



Page 7 of 74

## 4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	DC3.3V

### 5 TEST MODE

TEST MODE	TEST MODE DESCRIPTION				
Transmitting mode	Keep the EUT in continuously transmitting mode with modulation.				
Remark: During the test reported.	, BLE1M, BLE2M modulation were all pre-scanned only BLE1M worse case is				

## **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		



Page 8 of 74

## 7 DESCRIPTION OF SUPPORT UNIT

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

### **8 LABORATORY LOCATION**

All tests were performed at:

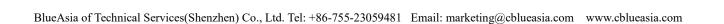
BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,

China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.





Page 9 of 74

## 9 TEST INSTRUMENTS LIST

Test Equipment Of Conducted Band Edges Measurement						
Equipment Manufacturer Model S/N Cal.Date Cal.Date						
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022	
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022	
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022	
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022	

Test Equipment Of Radiated Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	10/11/2020	9/11/2023
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Receiver	R&S	ESR7	101199	24/9/2021	23/9/2022
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	26/9/2020	25/9/2022
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	26/9/2020	25/9/2022
Amplifier	SKET	LNPA-0118-45	N/A	24/9/2021	23/9/2022
EMI software	EZ	EZ-EMC	N/A	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	26/9/2020	25/9/2022

Test Equipment Of F	oment Of Radiated Emissions which fall in the restricted bands				
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	10/11/2020	9/11/2023
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022



Page 10 of 74

Receiver	R&S	ESR7	101199	24/9/2021	23/9/2022
broadband Antenna	adband Antenna Schwarzbeck		VULB9168 00836 P:00227		25/9/2022
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	26/9/2020	25/9/2022
Amplifier	SKET	LNPA-0118-45	N/A	24/9/2021	23/9/2022
EMI software	EZ	EZ-EMC	N/A	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	26/9/2020	25/9/2022

Test Equipment Of 0	st Equipment Of Conducted Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due	
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022	
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022	
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022	
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022	

Test Equipment Of F	est Equipment Of Power Spectrum Density					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due	
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022	
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022	
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022	
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022	

Test Equipment Of 0	Conducted Peak O	utput Power					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due		
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022		



Page 11 of 74

Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of N	Equipment Of Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due	
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022	
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022	
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022	
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022	

Test Equipment Of	quipment 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	2021/10/12	2022/10/11	
LISN	R&S	ENV216	3560.6550.15	2021/10/12	2022/10/11	
LISN	AT	AT166-2	AKK1806000003	2021/10/12	2022/10/11	
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A	



Page 12 of 74

#### 10 CONDUCTED BAND EDGES MEASUREMENT

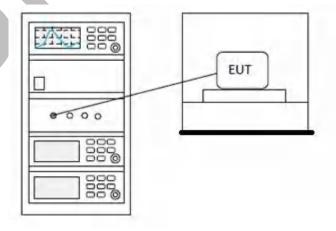
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

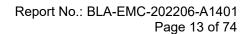
#### **10.1 LIMITS**

Limit:

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)).

### 10.2 BLOCK DIAGRAM OF TEST SETUP







10.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details





Page 14 of 74

### 11 RADIATED SPURIOUS EMISSIONS

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

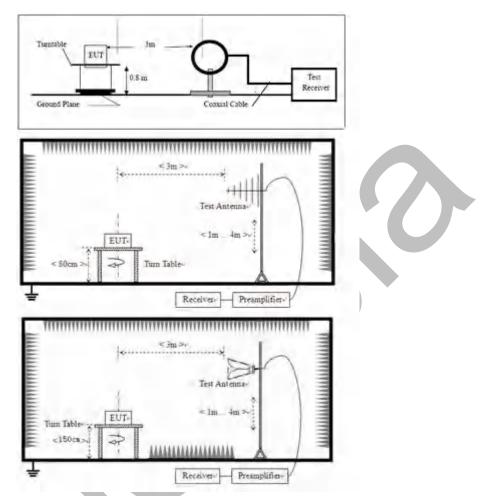
#### **11.1 LIMITS**

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
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.



#### 11.2 BLOCK DIAGRAM OF TEST SETUP



#### 11.3 PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. 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.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.



Page 16 of 74

- 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.



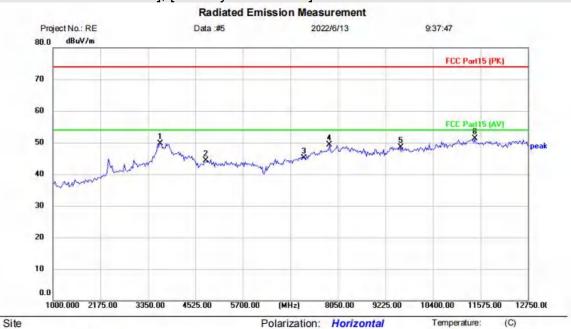
%RH



### 11.4 TEST DATA

Remark: During the test, pre-scan the BLE1M, BLE2M mode, and found the BLE1M mode which it is worse case.

### [TestMode: TX low channel]; [Polarity: Horizontal]



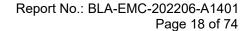
Limit: FCC Part15 (PK)

EUT: BT module M/N: RF-BM-BG22B1

Mode: TX-L Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3655.500	42.03	7.76	49.79	74.00	-24.21	peak	
2		4804.000	40.59	3.71	44.30	74.00	-29.70	peak	
3		7206.000	39.06	5.96	45.02	74.00	-28.98	peak	
4		7838.500	41.49	7.75	49.24	74.00	-24.76	peak	
5		9608.000	39.25	9.29	48.54	74.00	-25.46	peak	
6	*	11434.000	39.43	11.81	51.24	74.00	-22.76	peak	

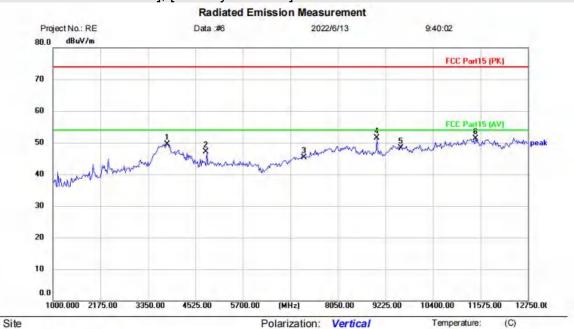
Power:



%RH



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



Limit: FCC Part15 (PK)

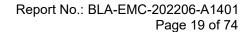
EUT: BT module M/N: RF-BM-BG22B1

M/N: RF-BM-BG22B1 Mode: TX-L Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		3820.000	42.03	7.41	49.44	74.00	-24.56	peak		
2		4804.000	43.48	3.71	47.19	74.00	-26.81	peak		
3		7206.000	39.35	5.96	45.31	74.00	-28.69	peak		
4	*	9013.500	43.37	8.13	51.50	74.00	-22.50	peak		
5		9608.000	39.08	9.29	48.37	74.00	-25.63	peak		
6		11457.500	39.39	11.84	51.23	74.00	-22.77	peak		
					100	51 51 515				

Power:

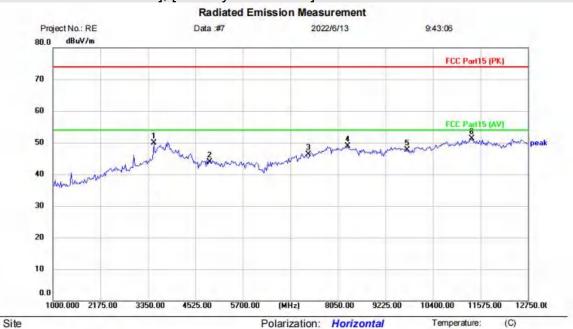
\*:Maximum data x:Over limit !:over margin (Reference Only



%RH



## [TestMode: TX mid channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

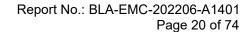
EUT: BT module M/N: RF-BM-BG22B1

Mode: TX-M Note:

No.	Mk.	Freq.	Reading Level	Correct	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3491.000	45.85	4.15	50.00	74.00	-24.00	peak	
2		4884.000	40.66	3.34	44.00	74.00	-30.00	peak	
3		7326.000	39.85	6.44	46.29	74.00	-27.71	peak	
4		8285.000	40.57	8.24	48.81	74.00	-25.19	peak	
5		9768.000	38.00	9.63	47.63	74.00	-26.37	peak	
6	*	11363.500	39.56	11.81	51.37	74.00	-22.63	peak	

Power:

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



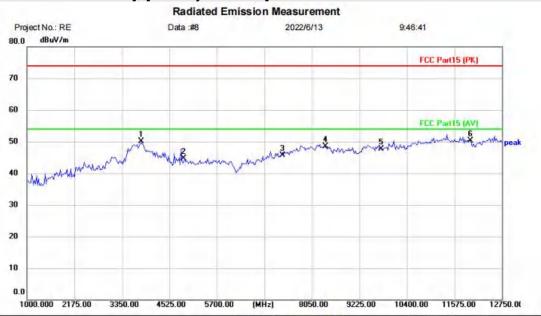
Humidity:

(C)

%RH



## [TestMode: TX mid channel]; [Polarity: Vertical]



Polarization: Vertical

Limit: FCC Part15 (PK)

EUT: BT module M/N: RF-BM-BG22B1

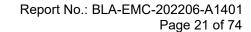
Mode: TX-M Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3820.000	42.63	7.41	50.04	74.00	-23.96	peak	
2		4884.000	41.35	3.34	44.69	74.00	-29.31	peak	
3		7326.000	39.17	6.44	45.61	74.00	-28.39	peak	
4		8379.000	40.23	8.27	48.50	74.00	-25.50	peak	
5		9768.000	38.03	9.63	47.66	74.00	-26.34	peak	
6	*	11974.500	39.03	11.33	50.36	74.00	-23.64	peak	

Power:

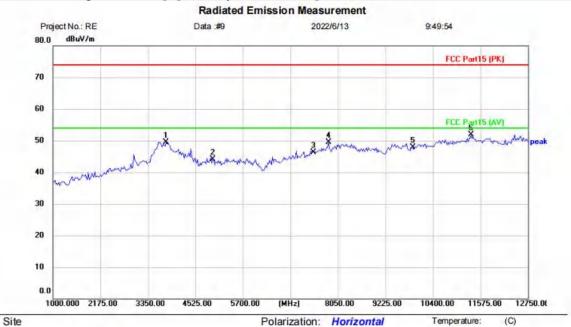
\*:Maximum data x:Over limit !:over margin (Reference Only



%RH



## [TestMode: TX high channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: BT module M/N: RF-BM-BG22B1

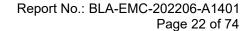
Mode: TX-H

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		3796.500	41.92	7.65	49.57	74.00	-24.43	peak		
2		4960.000	40.29	3.75	44.04	74.00	-29.96	peak		
3		7440.000	39.38	6.86	46.24	74.00	-27.76	peak		
4		7815.000	41.79	7.72	49.51	74.00	-24.49	peak		
5		9920.000	37.65	10.16	47.81	74.00	-26.19	peak		
6	*	11340.000	40.09	11.85	51.94	74.00	-22.06	peak		

Power:

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



%RH



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



Limit: FCC Part15 (PK)

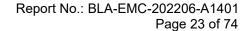
EUT: BT module M/N: RF-BM-BG22B1

Mode: TX-H Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3655.500	41.82	7.76	49.58	74.00	-24.42	peak	
2		4960.000	39.89	3.75	43.64	74.00	-30.36	peak	
3		7440.000	39.56	6.86	46.42	74.00	-27.58	peak	
4		8426.000	40.80	8.24	49.04	74.00	-24.96	peak	
5		9920.000	36.86	10.16	47.02	74.00	-26.98	peak	
6	*	11763.000	40.70	11.63	52.33	74.00	-21.67	peak	

Power:

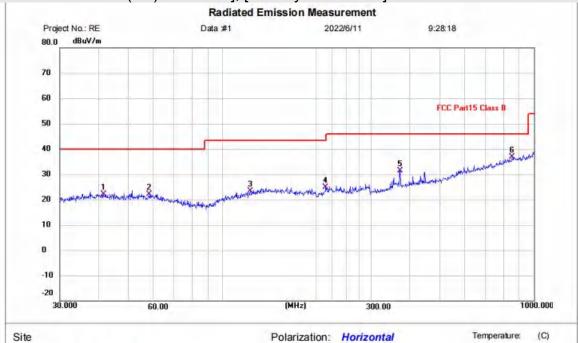
\*:Maximum data x:Over limit !:over margin (Reference Only



Humidity: %RH



[TestMode: TX mode (SE) below 1G]; [Polarity: Horizontal]



Limit: FCC Part15 Class B EUT: BT Module

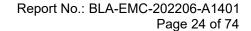
M/N: RF-BM-BG22B1 Mode: BLE TX mode

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	41.4215	-1.85	23.92	22.07	40.00	-17.93	QP	100	149	P	
2	58.2029	-1.36	23.53	22.17	40.00	-17.83	QP	100	155	Р	
3	122.8339	0.18	23.16	23.34	43.50	-20.16	QP	100	355	Р	
4	214.5142	2.78	22.21	24.99	43.50	-18.51	QP	100	314	P	
5	372.0045	4.46	27.04	31.50	46.00	-14.50	QP	100	216	P	
6 *	851.0353	0.41	36.39	36.80	46.00	-9.20	QP	100	183	P	

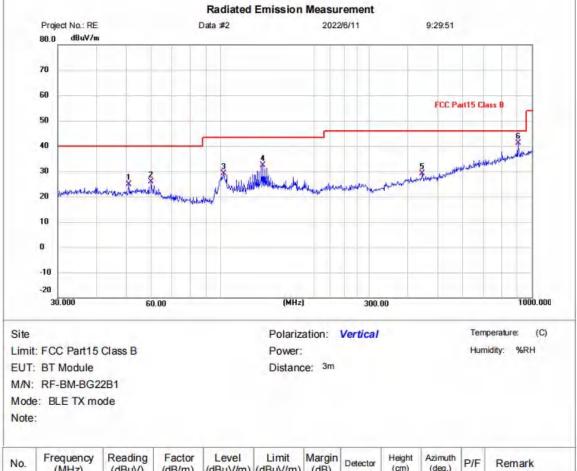
Power: Distance: 3m

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





[TestMode: TX mode (SE) below 1G]; [Polarity: Vertical]



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	50.7637	1.29	23.70	24.99	40.00	-15.01	QP	100	195	P	
2	59.8588	2.40	23.49	25.89	40.00	-14.11	QP	100	173	P	
3	102.3597	7.90	21.11	29.01	43.50	-14.49	QP	100	45	Р	
4	136.9391	8.61	23.80	32.41	43.50	-11.09	QP	100	3	P	
5	444.8514	0.53	28.61	29.14	46.00	-16.86	QP	100	301	P	
6 *	903.3094	4.32	36.80	41.12	46.00	-4.88	QP	100	355	Р	

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



Page 25 of 74

### 12 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

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

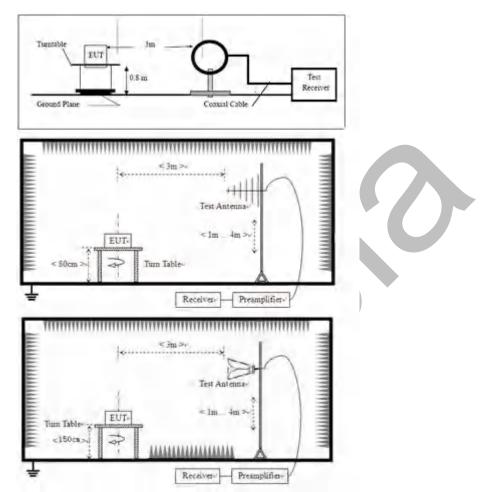
#### **12.1 LIMITS**

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
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.



#### 12.2 BLOCK DIAGRAM OF TEST SETUP



### 12.3 PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. 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.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.



Page 27 of 74

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.

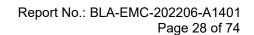
j. Repeat above procedures until all frequencies measured was complete.

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.

Remark: During the test, pre-scan the BLE1M, BLE2M mode, and found the BLE1M mode which it is worse case



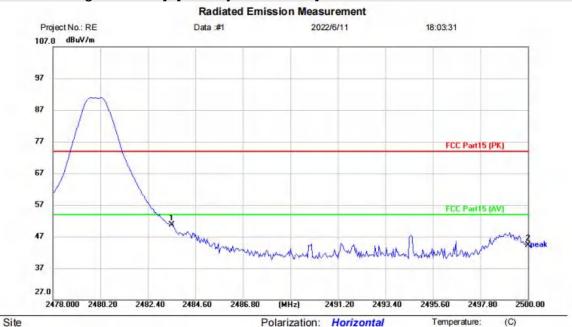


%RH



### 12.4 TEST DATA

## [TestMode: TX high channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

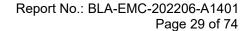
EUT: BT module M/N: RF-BM-BG22B1

Mode: TX-H Note:

No.	o. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2483.500	53.85	-3.14	50.71	74.00	-23.29	peak		
2		2500.000	47.46	-3.08	44.38	74.00	-29.62	peak		

Power:

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



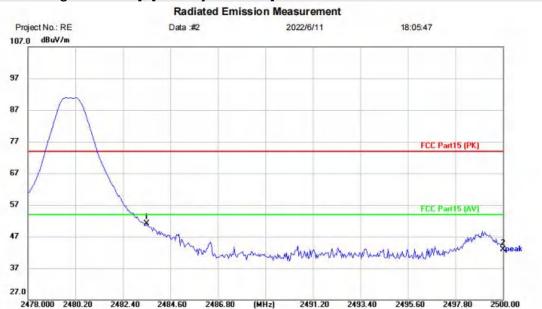
Humidity:

(C)

%RH



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



Polarization: Vertical

Limit: FCC Part15 (PK)

EUT: BT module M/N: RF-BM-BG22B1

Mode: TX-H

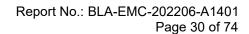
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2483.500	54.18	-3.14	51.04	74.00	-22.96	peak		
2		2500.000	45.98	-3.08	42.90	74.00	-31.10	peak		

Power:

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



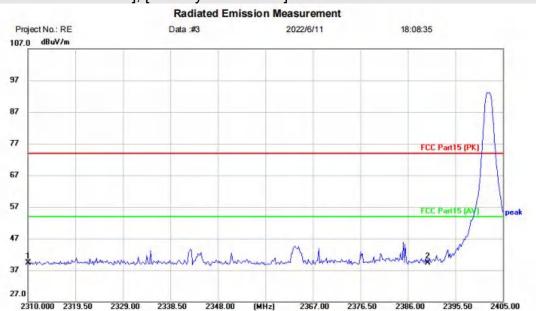
Humidity:

(C)

%RH



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



Polarization: Horizontal

Site Limit: FCC Part15 (PK)

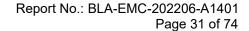
EUT: BT module M/N: RF-BM-BG22B1

Mode: TX-L Note:

No. Mk.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment		Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	43.20	-3.93	39.27	74.00	-34.73	peak		
2	*	2390.000	42.98	-3.58	39.40	74.00	-34.60	peak		

Power:

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



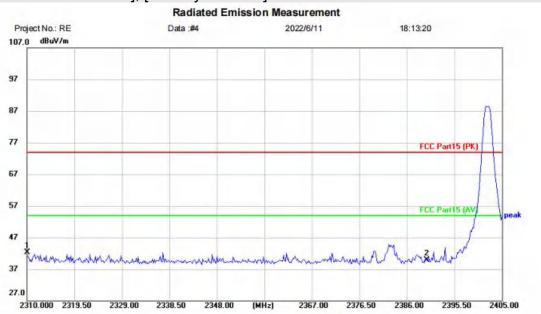
Humidity:

(C)

%RH



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



Polarization: Vertical

Limit: FCC Part15 (PK)

Mode: TX-L Note:

Site

EUT: BT module M/N: RF-BM-BG22B1

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2310.000	46.18	-3.93	42.25	74.00	-31.75	peak		
2		2390.000	43.39	-3.58	39.81	74.00	-34.19	peak		

Power:

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



Page 32 of 74

#### 13 CONDUCTED SPURIOUS EMISSIONS

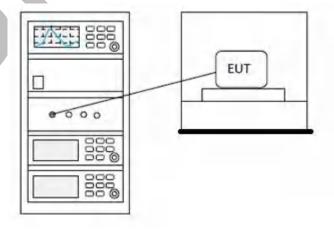
Test Standard	47 CFR Part 15, Subpart C 15.247			
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11			
Test Mode (Pre-Scan)	TX			
Test Mode (Final Test)	TX			
Tester	Jozu			
Temperature	25℃			
Humidity	60%			

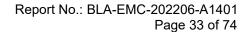
#### **13.1 LIMITS**

Limit:

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)).

### 13.2 BLOCK DIAGRAM OF TEST SETUP







13.3 TEST DATA

# Pass: Please Refer To Appendix: Appendix1 For Details





Page 34 of 74

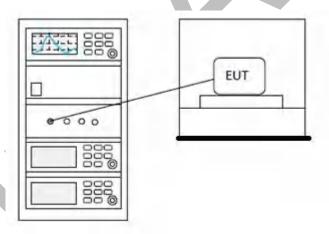
### 14 POWER SPECTRUM DENSITY

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	Jozu
Temperature	25℃
Humidity	60%

### **14.1 LIMITS**

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

### 14.2 BLOCK DIAGRAM OF TEST SETUP



# 14.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details



Page 35 of 74

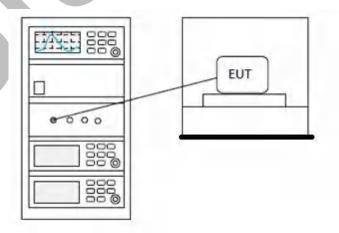
### 15 CONDUCTED PEAK OUTPUT POWER

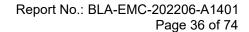
Test Standard	47 CFR Part 15, Subpart C 15.247			
Test Method	ANSI C63.10 (2013) Section 7.8.5			
Test Mode (Pre-Scan)	TX			
Test Mode (Final Test)	TX			
Tester	Jozu			
Temperature	<b>25</b> ℃			
Humidity	60%			

### **15.1 LIMITS**

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

## 15.2 BLOCK DIAGRAM OF TEST SETUP







15.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details





Report No.: BLA-EMC-202206-A1401

Page 37 of 74

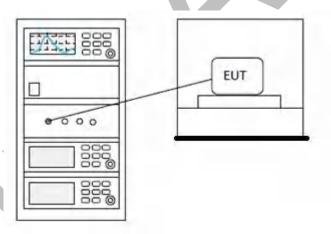
## 16 MINIMUM 6DB BANDWIDTH

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	Jozu					
Temperature	25℃					
Humidity	60%					

#### **16.1 LIMITS**

**Limit:** ≥500 kHz

### 16.2 BLOCK DIAGRAM OF TEST SETUP



# 16.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details



Report No.: BLA-EMC-202206-A1401

Page 38 of 74

#### 17 ANTENNA REQUIREMENT

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

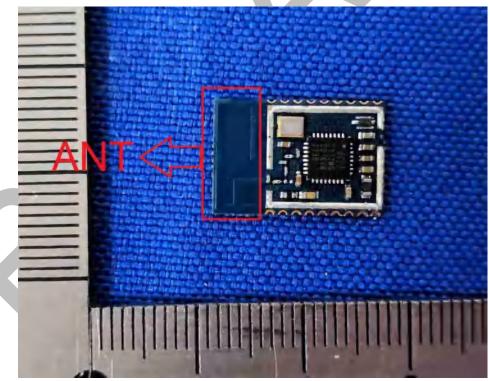
#### 17.1 CONCLUSION

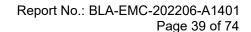
## Standard Requirement:

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 0dBi.







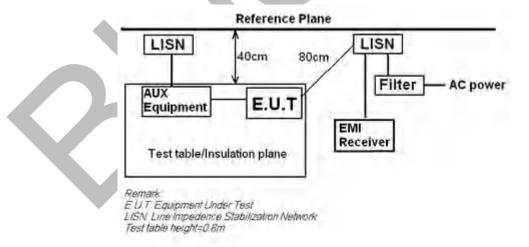
### 18 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

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

#### **18.1 LIMITS**

Frequency of	Conducted limit(dBµV)					
emission(MHz)	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.					

### 18.2 BLOCK DIAGRAM OF TEST SETUP



#### 18.3 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/50H + 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.



Report No.: BLA-EMC-202206-A1401

Page 40 of 74

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.

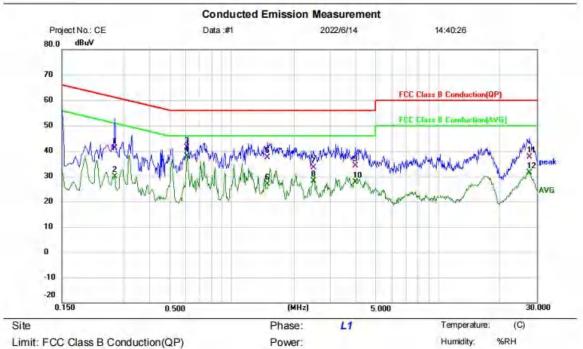
Remark: LISN=Read Level+ Cable Loss+ LISN Factor





#### 18.4 TEST DATA

# [TestMode: Transmitting mode]; [Line: Line] ;[Power:AC120V/60Hz]



EUT: BT module M/N: RF-BM-BG22B1 Mode: BLE TX Mode

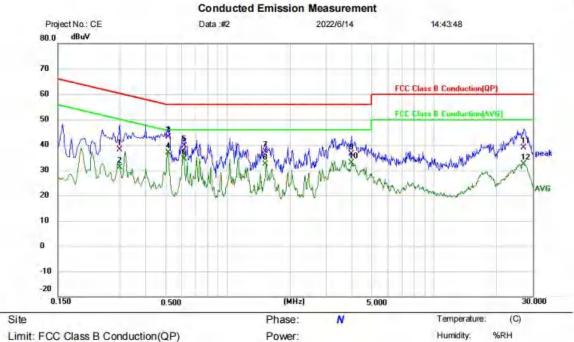
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2700	30.83	10.38	41.21	61.12	-19.91	QP	
2		0.2700	19.55	10.38	29.93	51.12	-21.19	AVG	
3		0.6060	31.52	9.87	41.39	56.00	-14.61	QP	
4		0.6060	28.06	9.87	37.93	46.00	-8.07	AVG	
5		1.4940	27.38	9.93	37.31	56.00	-18.69	QP	
6		1.4940	16.91	9.93	26.84	46.00	-19.16	AVG	
7		2.4980	23.46	9.95	33.41	56.00	-22.59	QP	
8		2.4980	18.23	9.95	28.18	46.00	-17.82	AVG	
9		3.9700	24.20	9.88	34.08	56.00	-21.92	QP	
10		3.9700	17.72	9.88	27.60	46.00	-18.40	AVG	
11		27.6540	27.27	10.47	37.74	60.00	-22.26	QP	
12		27.6540	20.97	10.47	31.44	50.00	-18.56	AVG	

### **Test Result: Pass**



# [TestMode: Transmitting mode]; [Line: Neutral] ;[Power:AC120V/60Hz]



Limit: FCC Class B Conduction(QP)

EUT: BT module M/N: RF-BM-BG22B1 Mode: BLE TX Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2980	28.39	9.77	38.16	60.30	-22.14	QP	
2		0.2980	21.30	9.77	31.07	50.30	-19.23	AVG	
3		0.5140	33.23	9.79	43.02	56.00	-12.98	QP	
4		0.5140	27.15	9.79	36.94	46.00	-9.06	AVG	
5		0.6140	29.84	9.80	39.64	56.00	-16.36	QP	
6		0.6140	24.56	9.80	34.36	46.00	-11.64	AVG	
7		1.5339	27.57	9.85	37.42	56.00	-18.58	QP	
8		1.5339	22.48	9.85	32.33	46.00	-13.67	AVG	
9		3.9740	26.53	9.91	36.44	56.00	-19.56	QP	
10		3.9740	22.86	9.91	32.77	46.00	-13.23	AVG	
11		27.0660	28.33	10.44	38.77	60.00	-21.23	QP	
12		27.0660	21.97	10.44	32.41	50.00	-17.59	AVG	

#### **Test Result: Pass**

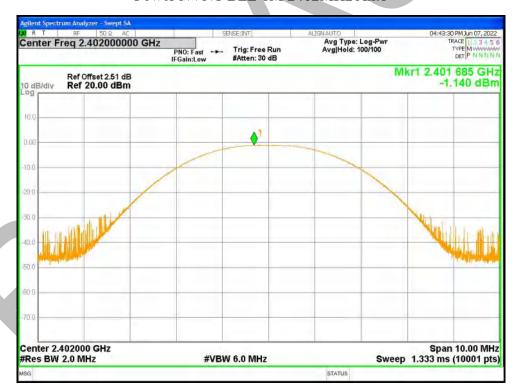


### 19 APPENDIX

### **Maximum Conducted Output Power**

Condition	Mode	Frequency	Antenna	Conducted Power	Limit	Verdict
		(MHz)		(dBm)	(dBm)	
NVNT	BLE	2402	Ant1	-1.14	30	Pass
	1M					
NVNT	BLE	2442	Ant1	-1.683	30	Pass
	1M					
NVNT	BLE	2480	Ant1	-1.064	30	Pass
	1M					
NVNT	BLE	2402	Ant1	-1.143	30	Pass
	2M					
NVNT	BLE	2442	Ant1	-1.67	30	Pass
	2M					
NVNT	BLE	2480	Ant1	-1.05	30	Pass
	2M					

## Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2442MHz Ant1



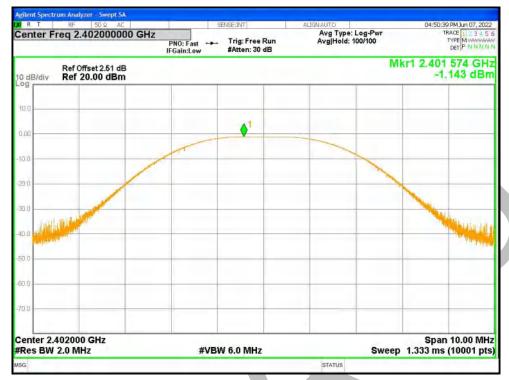


Power NVNT BLE 1M 2480MHz Ant1



Power NVNT BLE 2M 2402MHz Ant1





Power NVNT BLE 2M 2442MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1







#### -6dB Bandwidth

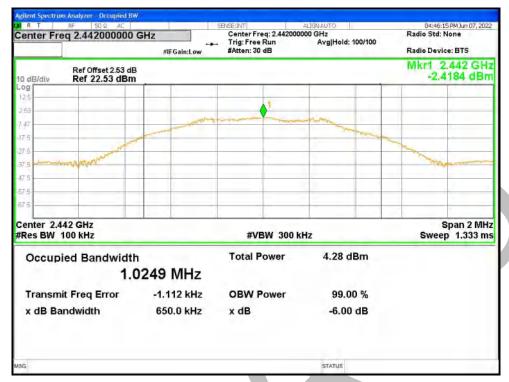
Condition	Mode	Frequency	Antenna	-6 dB Bandwidth	Limit -6 dB	Verdict
		(MHz)		(MHz)	Bandwidth (MHz)	
NVNT	BLE	2402	Ant1	0.644	0.5	Pass
	1M					
NVNT	BLE	2442	Ant1	0.65	0.5	Pass
	1M					
NVNT	BLE	2480	Ant1	0.648	0.5	Pass
	1M					
NVNT	BLE	2402	Ant1	1.147	0.5	Pass
	2M					
NVNT	BLE	2442	Ant1	1.157	0.5	Pass
	2M					
NVNT	BLE	2480	Ant1	1.137	0.5	Pass
	2M					

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2442MHz Ant1





-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1





-6dB Bandwidth NVNT BLE 2M 2442MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1







#### **Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0184
NVNT	BLE 1M	2442	Ant1	1.0184
NVNT	BLE 1M	2480	Ant1	1.0193
NVNT	BLE 2M	2402	Ant1	2.0243
NVNT	BLE 2M	2442	Ant1	2.0132
NVNT	BLE 2M	2480	Ant1	2.0232

### OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2442MHz Ant1



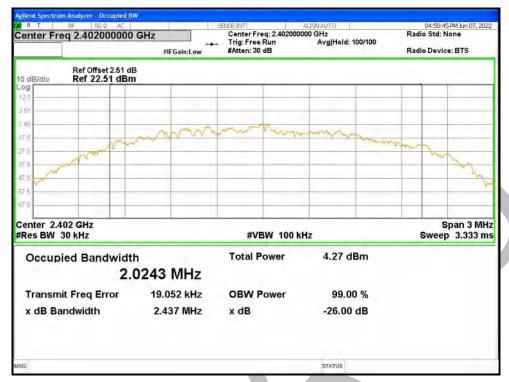


## OBW NVNT BLE 1M 2480MHz Ant1



OBW NVNT BLE 2M 2402MHz Ant1





## OBW NVNT BLE 2M 2442MHz Ant1



OBW NVNT BLE 2M 2480MHz Ant1







#### **Maximum Power Spectral Density Level**

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.644	8	Pass
NVNT	BLE 1M	2442	Ant1	-2.176	8	Pass
NVNT	BLE 1M	2480	Ant1	-1.476	8	Pass
NVNT	BLE 2M	2402	Ant1	-1.859	8	Pass
NVNT	BLE 2M	2442	Ant1	-2.361	8	Pass
NVNT	BLE 2M	2480	Ant1	-1.169	8	Pass

## PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2442MHz Ant1





PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1





PSD NVNT BLE 2M 2442MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1







#### **Band Edge**

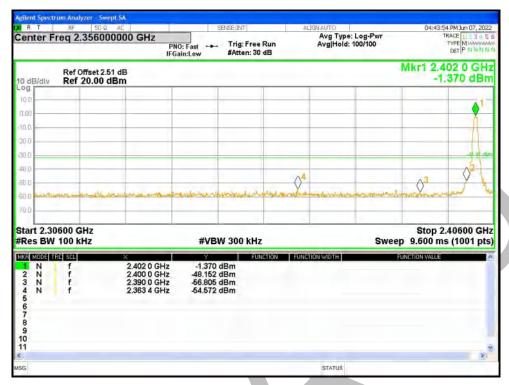
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.67	-30	Pass
NVNT	BLE 1M	2480	Ant1	-53.19	-30	Pass
NVNT	BLE 2M	2402	Ant1	-53.8	-30	Pass
NVNT	BLE 2M	2480	Ant1	-48.55	-30	Pass

## Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission





Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission





Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission





Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission







#### **Conducted RF Spurious Emission**

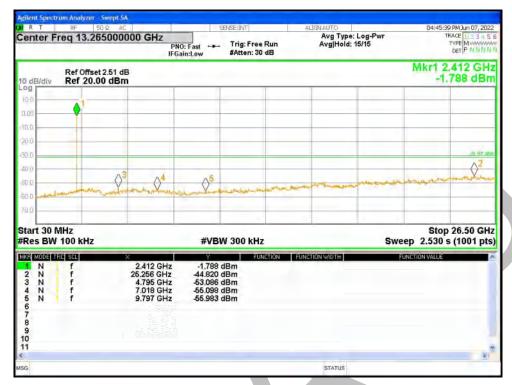
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-43.14	-30	Pass
NVNT	BLE 1M	2442	Ant1	-43.13	-30	Pass
NVNT	BLE 1M	2480	Ant1	-43.68	-30	Pass
NVNT	BLE 2M	2402	Ant1	-43.16	-30	Pass
NVNT	BLE 2M	2442	Ant1	-42.96	-30	Pass
NVNT	BLE 2M	2480	Ant1	-43.21	-30	Pass

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



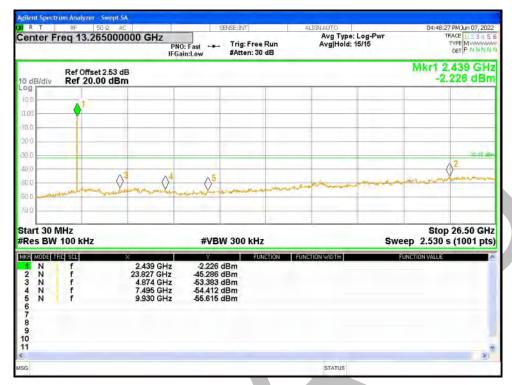


Tx. Spurious NVNT BLE 1M 2442MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2442MHz Ant1 Emission



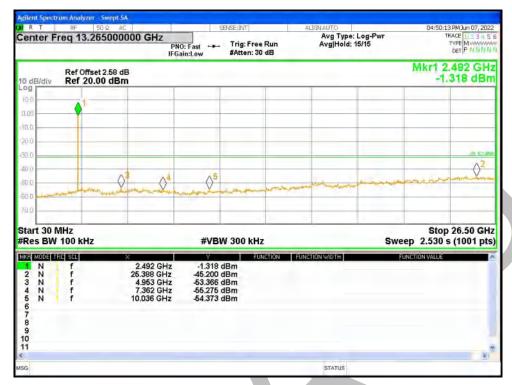


Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



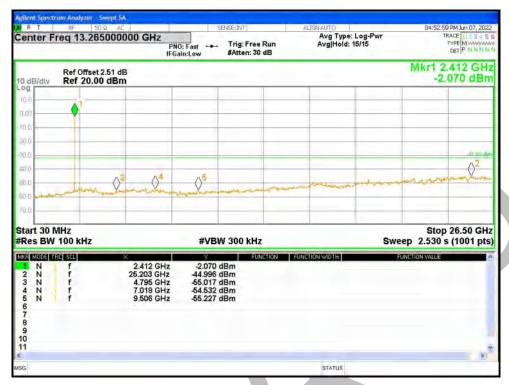


Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



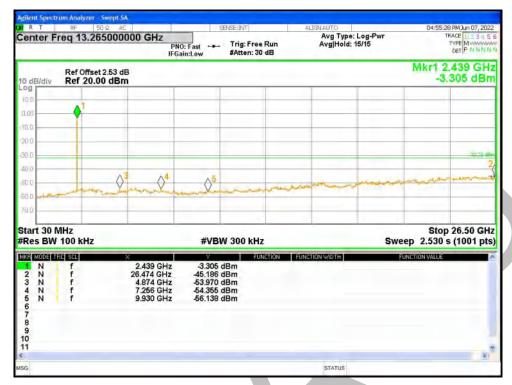


Tx. Spurious NVNT BLE 2M 2442MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2442MHz Ant1 Emission



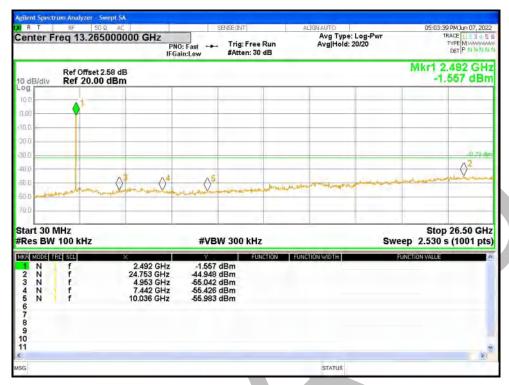


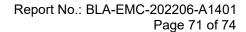
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

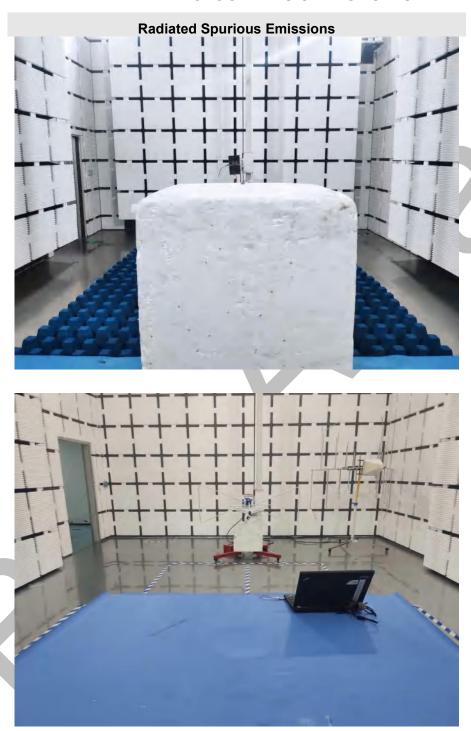


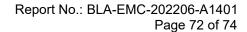






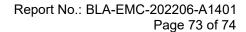
# **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**





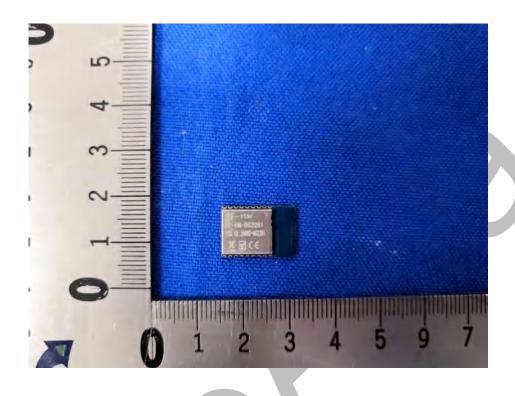


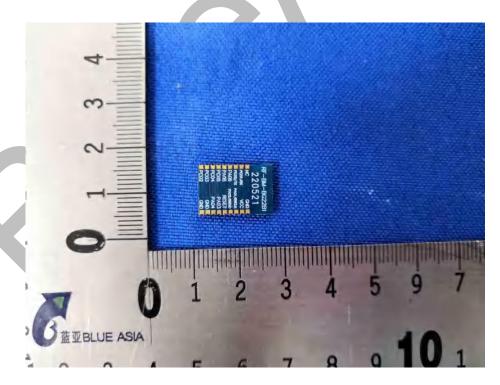


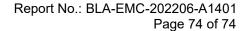




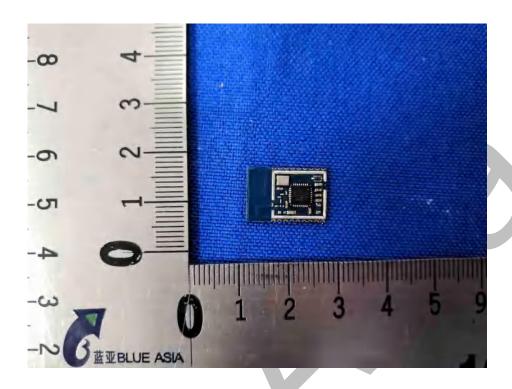
# **APPENDIX B: PHOTOGRAPHS OF EUT**











# ----END OF REPORT----

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