

TEST REPORT

Product Name : Wifi/bt Module

Brand Mark : FN-LINK
Model No. : L297B-SR

FCC ID : 2AATL-L297BSR

Report Number : BLA-EMC-202203-A4002

Date of Sample Receipt : 2022/3/9

Date of Test : 2022/3/9 to 2022/5/7

Date of Issue : 2022/5/7

Test Standard : 47 CFR Part 15, Subpart C 15.247

Test Result : Pass

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Compiled by:

Approved by:

Review by:

Date:







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REPORT REVISE RECORD

Version No. Date		Description
00	2022/5/7	Original





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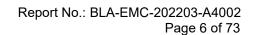
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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
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
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





2 GENERAL INFORMATION

Applicant	FN-LINK TECHNOLOGY LIMITED	
Address	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA	
Manufacturer	FN-LINK TECHNOLOGY LIMITED	
Address	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA	
Factory	FN-LINK TECHNOLOGY LIMITED	
Address	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA	
Product Name	Wifi/bt Module	
Test Model No.	L297B-SR	

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	1.0
Software Version	1.0
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	External Antenna
Antenna Gain:	4dBi(Provided by the applicant)

4 BLOCK DIAGRAM OF EUT CONNECTION





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5 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	DC5V

6 TEST MODE

TEST MODE	TEST MODE DESCRIPTION		
Transmitting mode	Keep the EUT in continuously transmitting mode with modulation.		
Remark:BLE 1M, BLE 2M all have been tested, during the test, BLE1M BLE2M modulation were all			
pre-scanned only BLE2M worse case is reported.			

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			



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DESCRIPTION OF SUPPORT UNIT

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

LABORATORY LOCATION 9

All tests were performed at:

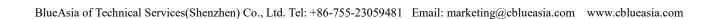
BlueAsia of Technical Services(Shenzhen) Co., Ltd.

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China

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No tests were sub-contracted.





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10 TEST INSTRUMENTS LIST

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	25/11/2020	24/11/2023	
Receiver	R&S	ESPI3	101082	24/9/2021	23/9/2022	
LISN	R&S	ENV216	3560.6550.15	24/9/2021	23/9/2022	
LISN	AT	AT166-2	AKK1806000003	26/9/2021	25/9/2022	
EMI software	EZ	EZ-EMC	N/A	N/A	N/A	

Test Equipment Of	Test Equipment Of Conducted Band Edges Measurement							
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 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		



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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 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		
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 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	Power Spectrum [Density			
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due

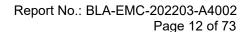


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Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Conducted Peak Output Power					
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 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		





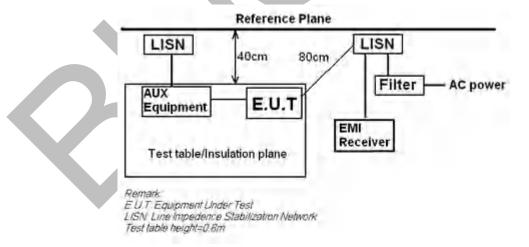
11 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

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

11.1 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.					

11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 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.



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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.

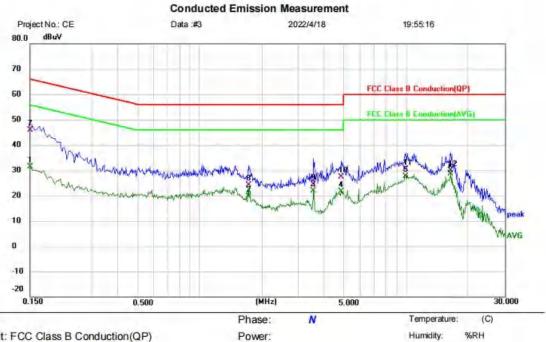
Remark: LISN=Read Level+ Cable Loss+ LISN Factor





11.4 TEST DATA

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



Limit: FCC Class B Conduction(QP)

EUT: Wifi/bt Module M/N: L27B-SR Mode: BLE-TX Mode

Note:

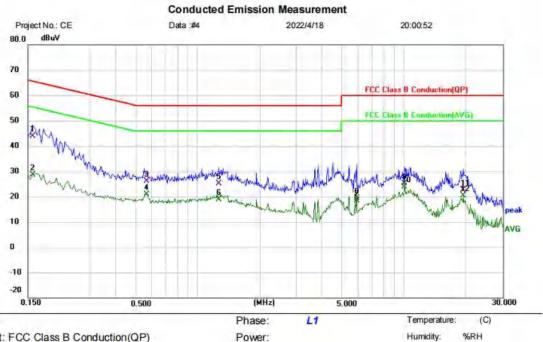
Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	21.38	10.03	31.41	56.00	-24.59	AVG	
2		1.7340	9.82	9.85	19.67	46.00	-26.33	AVG	
3		3.5620	12.06	9.91	21.97	46.00	-24.03	AVG	
4		4.8460	11.80	9.95	21.75	46.00	-24.25	AVG	
5		9.9140	27.38	0.25	27.63	50.00	-22.37	AVG	
6		16.4780	18.37	10.32	28.69	50.00	-21.31	AVG	
7	*	0.1500	35.87	10.03	45.90	66.00	-20.10	QP	
8		1.7340	14.20	9.85	24.05	56.00	-31.95	QP	
9		3.5620	14.40	9.91	24.31	56.00	-31.69	QP	
10		4.8460	17.55	9.95	27.50	56.00	-28.50	QP	
11		9.9140	30.05	0.25	30.30	60.00	-29.70	QP	
12		16.4780	19.50	10.32	29.82	60.00	-30.18	QP	

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



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



Limit: FCC Class B Conduction(QP)

EUT: Wifi/bt Module M/N: L27B-SR Mode: BLE-TX Mode

Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1580	33.82	10.13	43.95	65.57	-21.62	QP	
2		0.1580	18.42	10.13	28.55	55.57	-27.02	AVG	
3		0.5660	16.27	9.87	26.14	56.00	-29.86	QP	
4		0.5660	11.04	9.87	20.91	46.00	-25.09	AVG	
5		1.2660	15.08	9.93	25.01	56.00	-30.99	QP	
6		1.2660	8.98	9.93	18.91	46.00	-27.09	AVG	
7		5.8740	8.42	10.05	18.47	60.00	-41.53	QP	
8		5.8740	9.31	10.05	19.36	50.00	-30.64	AVG	
9		10.0460	24.94	0.17	25.11	60.00	-34.89	QP	
10		10.0460	23.78	0.17	23.95	50.00	-26.05	AVG	
11		19.3580	12.26	10.42	22.68	60.00	-37.32	QP	
12		19.3580	9.86	10.42	20.28	50.00	-29.72	AVG	

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



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12 CONDUCTED BAND EDGES MEASUREMENT

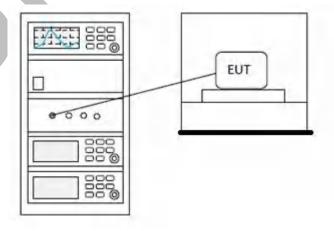
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

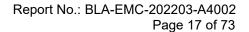
12.1 LIMITS

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)).

12.2 BLOCK DIAGRAM OF TEST SETUP







12.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details





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13 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%

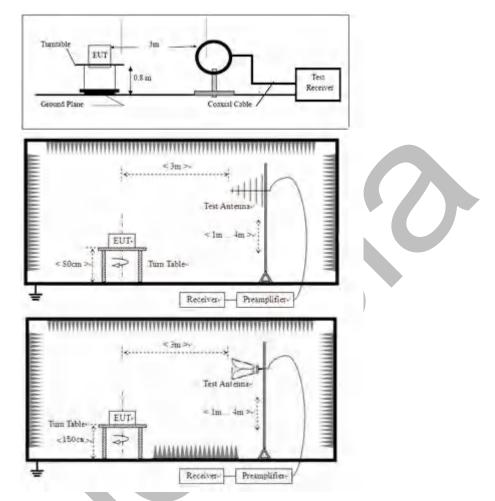
13.1 LIMITS

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.



13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 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.



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- 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.

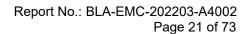
Remark:

- 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.





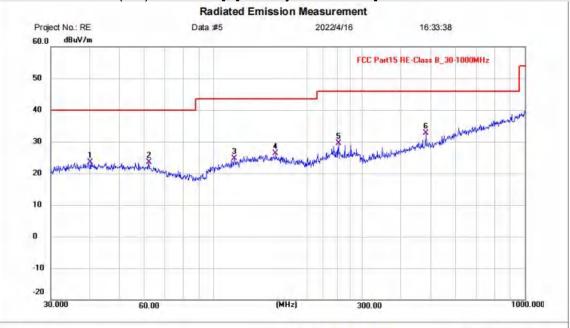
Humidity: %RH

(C)



13.4 TEST DATA

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



Polarization: Horizontal

Limit: FCC Part15 RE-Class B_30-1000MHz

EUT: Wifi/bt Module

M/N: L27B-SR Mode: BLE TX mode

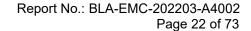
Note:

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	40.2754	-0.34	23.94	23.60	40.00	-16.40	QP			Р	
2	61.9949	0.44	23.08	23.52	40.00	-16.48	QP			Р	
3	116.5400	2.06	22.65	24.71	43.50	-18.79	QP			Р	
4	158.1123	2.50	23.84	26.34	43.50	-17.16	QP			Р	
5	252.0627	6.09	23.34	29.43	46.00	-16.57	QP			Р	
6 *	480.5276	3.64	29.09	32.73	46.00	-13.27	QP			Р	

Power:

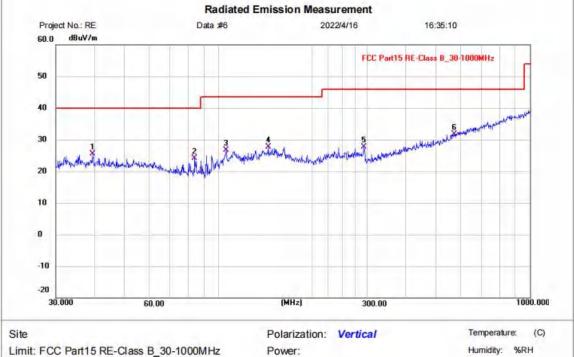
Distance:

^{*:}Maximum data x:Over limit !:over margin





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



Limit: FCC Part15 RE-Class B_30-1000MHz EUT: Wifi/bt Module

M/N: L27B-SR 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	39.4371	1.54	23.89	25.43	40.00	-14.57	QP			P	
2	83.8155	4.34	19.75	24.09	40.00	-15.91	QP			P	
3	105.6415	5.32	21.47	26.79	43.50	-16.71	QP			Р	
4	144.3347	3.77	23.91	27.68	43.50	-15.82	QP			P	
5	293.0842	3.17	24.46	27.63	46.00	-18.37	QP			Р	
6 *	570.6100	0.19	31.53	31.72	46.00	-14.28	QP			P	

Distance:

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



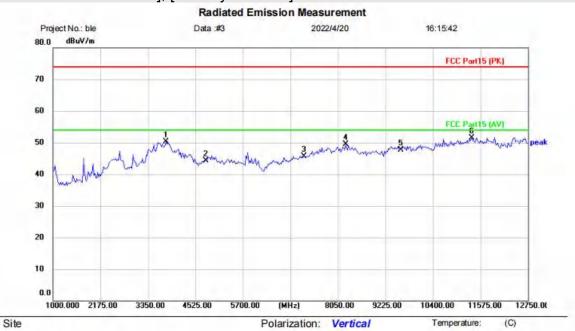
Humidity:

%RH

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Above 1GHz:

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



Limit: FCC Part15 (PK)

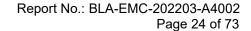
EUT: Wifi/bt Module M/N: L297B-SR Mode: TX-L

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3796.500	42.68	7.65	50.33	74.00	-23.67	peak	
2		4804.000	40.69	3.71	44.40	74.00	-29.60	peak	
3		7206.000	39.67	5.96	45.63	74.00	-28.37	peak	
4		8238.000	41.27	8.22	49.49	74.00	-24.51	peak	
5		9608.000	38.44	9.29	47.73	74.00	-26.27	peak	
6	* -	11363.500	39.68	11.81	51.49	74.00	-22.51	peak	

Power:

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

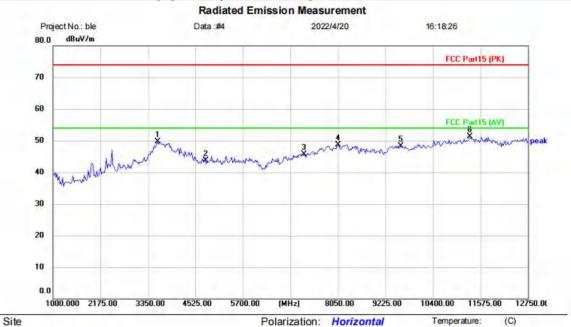


Humidity:

%RH



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



Limit: FCC Part15 (PK)

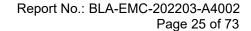
EUT: Wifi/bt Module M/N: L297B-SR Mode: TX-L

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3585.000	42.46	7.29	49.75	74.00	-24.25	peak	
2		4804.000	40.09	3.71	43.80	74.00	-30.20	peak	
3		7206.000	39.82	5.96	45.78	74.00	-28.22	peak	
4		8050.000	40.78	8.01	48.79	74.00	-25.21	peak	
5		9608.000	39.05	9.29	48.34	74.00	-25.66	peak	
6	* .	11316.500	39.49	11.88	51.37	74.00	-22.63	peak	

Power:

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

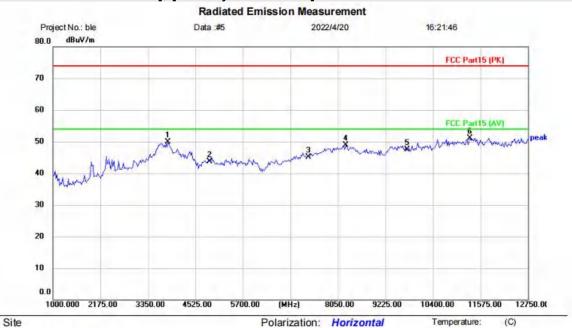


Humidity:

%RH



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



Limit: FCC Part15 (PK)

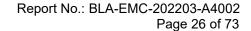
EUT: Wifi/bt Module M/N: L297B-SR Mode: TX-M

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3843.500	42.71	7.12	49.83	74.00	-24.17	peak	
2		4884.000	40.38	3.34	43.72	74.00	-30.28	peak	
3		7326.000	38.61	6.44	45.05	74.00	-28.95	peak	
4		8238.000	40.74	8.22	48.96	74.00	-25.04	peak	
5		9768.000	37.90	9.63	47.53	74.00	-26.47	peak	
6	* -	11316.500	39.17	11.88	51.05	74.00	-22.95	peak	

Power:

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



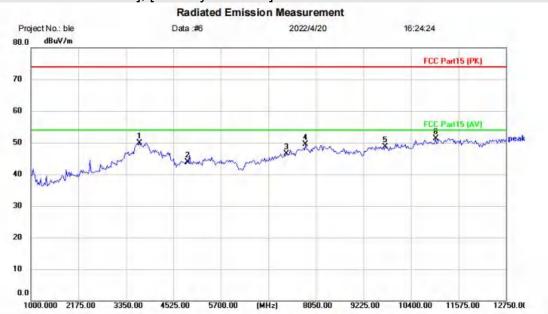
Humidity:

(C)

%RH



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



Polarization: Vertical

Site Limit: FCC Part15 (PK)

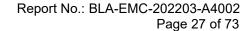
EUT: Wifi/bt Module M/N: L297B-SR Mode: TX-M

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3679.000	42.25	7.73	49.98	74.00	-24.02	peak	
2		4884.000	40.64	3.34	43.98	74.00	-30.02	peak	
3		7326.000	40.04	6.44	46.48	74.00	-27.52	peak	
4		7791.500	41.74	7.68	49.42	74.00	-24.58	peak	
5		9768.000	39.16	9.63	48.79	74.00	-25.21	peak	
6	*	11011.000	39.37	11.99	51.36	74.00	-22.64	peak	

Power:

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

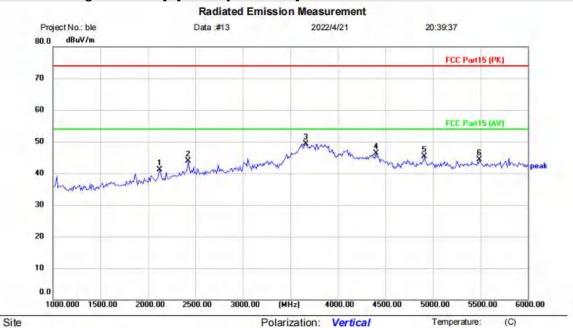


Humidity:

%RH



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



Limit: FCC Part15 (PK)

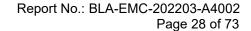
EUT: Wifi/bt Module M/N: L297B-SR Mode: TX-H

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2120.000	44.77	-3.60	41.17	74.00	-32.83	peak	
2		2420.000	44.99	-1.00	43.99	74.00	-30.01	peak	
3	*	3660.000	41.51	7.76	49.27	74.00	-24.73	peak	
4		4400.000	41.55	4.82	46.37	74.00	-27.63	peak	
5		4910.000	42.01	3.35	45.36	74.00	-28.64	peak	
6		5490.000	40.10	4.23	44.33	74.00	-29.67	peak	

Power:

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

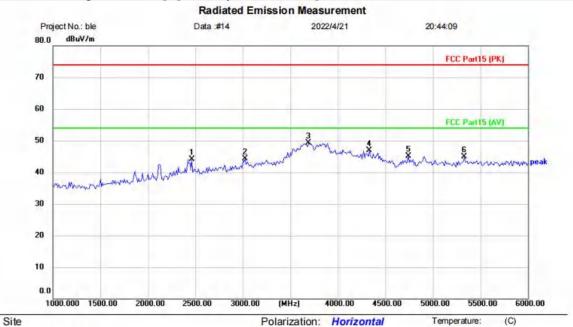


Humidity:

%RH



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



Limit: FCC Part15 (PK)

EUT: Wifi/bt Module M/N: L297B-SR Mode: TX-H

Note:

No.	Mk.	Freq.	Reading Level	Correct	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2460.000	45.35	-1.17	44.18	74.00	-29.82	peak	
2		3020.000	43.68	0.70	44.38	74.00	-29.62	peak	
3	*	3690.000	41.64	7.72	49.36	74.00	-24.64	peak	
4		4330.000	42.34	4.47	46.81	74.00	-27.19	peak	
5		4740.000	42.25	2.77	45.02	74.00	-28.98	peak	
6		5330.000	41.11	3.81	44.92	74.00	-29.08	peak	

Power:

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



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14 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%							

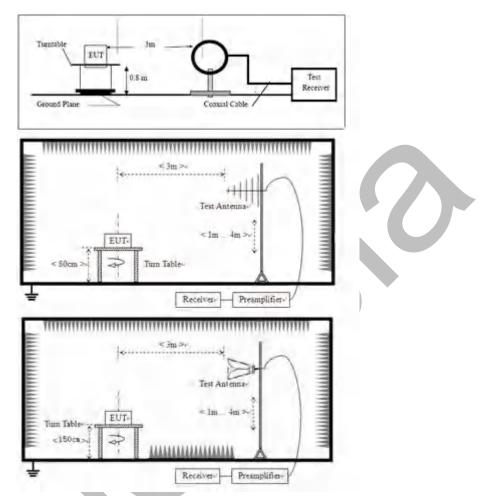
14.1 LIMITS

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.



14.2 BLOCK DIAGRAM OF TEST SETUP



14.3 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.



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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.





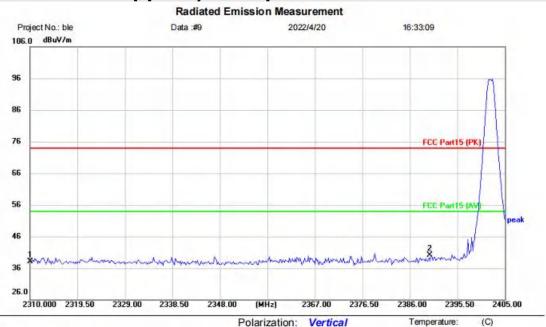
Humidity:

%RH

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14.4 TEST DATA

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



Limit: FCC Part15 (PK)

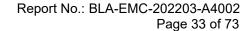
Site

EUT: Wifi/bt Module M/N: L297B-SR Mode: TX-L Note:

No. N	Mk.	. Freq.	7777	Correct Factor	11112500		Over	Detector	Comment	
				dB/m			dB			
1		2310.000	42.12	-3.93	38.19	74.00	-35.81	peak		
2	*	2390.000	43.74	-3.58	40.16	74.00	-33.84	peak		

Power:

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



Humidity:

(C)

%RH



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

Radiated Emission Measurement Project No.: ble Data :#10 2022/4/20 16:35:00 106.0 dBuV/m 96 86 76 56 56 56 62 50 2310.000 2319.50 2329.00 2338.50 2348.00 (MHz) 2367.00 2376.50 2386.00 2395.50 2405.00

Polarization: Horizontal

Limit: FCC Part15 (PK)

EUT: Wifi/bt Module M/N: L297B-SR Mode: TX-L

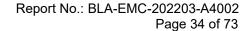
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	42.29	-3.93	38.36	74.00	-35.64	peak		
2	*	2390.000	42.82	-3.58	39.24	74.00	-34.76	peak		

Power:

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



Humidity:

(C)

%RH



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

Radiated Emission Measurement Project No.: ble Data :#11 2022/4/20 16:38:47 106.0 dBuV/m 96 86 76 FCC Part15 (PK) 66 56 FEE Part 5 (AV) 46 36 26.0 2477.000 2479.30 2481.60 2483.90 2486.20 2493.10

Polarization: Vertical

Limit: FCC Part15 (PK)

EUT: Wifi/bt Module M/N: L297B-SR Mode: TX-H

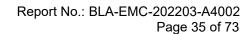
Note:

Site

No.	Mk.	Freq.		Correct Factor	mont	Limit dBuV/m	Over	Detector	Comment	
				V dB/m			dB			
1	*	2483.500	51.82	-3.14	48.68	74.00	-25.32	peak		
2		2500.000	44.91	-3.08	41.83	74.00	-32.17	peak		

Power:

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



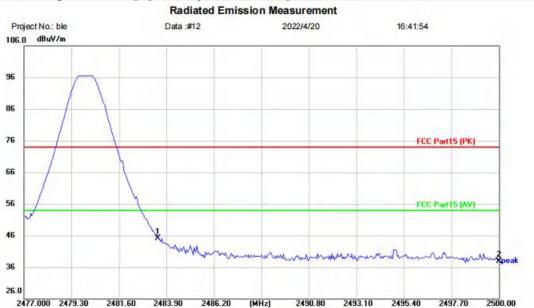
Humidity:

(C)

%RH



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



Polarization: Horizontal

Limit: FCC Part15 (PK)

EUT: Wifi/bt Module M/N: L297B-SR Mode: TX-H

Note:

Site

No.	Mk.	Freq.		Correct Factor	70112500		Over	Detector	Comment	
		MHz		dB/m		dBuV/m	dB			
1	*	2483.500	48.24	-3.14	45.10	74.00	-28.90	peak		
2		2500.000	41.08	-3.08	38.00	74.00	-36.00	peak		

Power:

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



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15 CONDUCTED SPURIOUS EMISSIONS

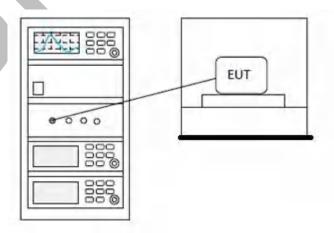
Test Standard	47 CFR Part 15, Subpart C 15.247						
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11						
Test Mode (Pre-Scan)	TX						
Test Mode (Final Test)	TX						
Tester	Jozu						
Temperature	25℃						
Humidity	60%						

15.1 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)).

15.2 BLOCK DIAGRAM OF TEST SETUP





15.3 TEST DATA





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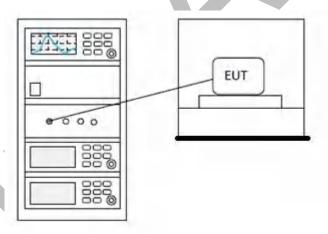
16 POWER SPECTRUM DENSITY

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%				

16.1 LIMITS

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

16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 TEST DATA



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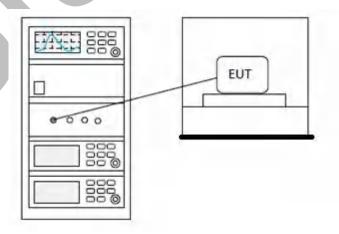
17 CONDUCTED PEAK OUTPUT POWER

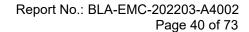
Test Standard	47 CFR Part 15, Subpart C 15.247					
Test Method	ANSI C63.10 (2013) Section 7.8.5					
Test Mode (Pre-Scan)	TX					
Test Mode (Final Test)	TX					
Tester	Jozu					
Temperature	25℃					
Humidity	60%					

17.1 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		

17.2 BLOCK DIAGRAM OF TEST SETUP







17.3 TEST DATA





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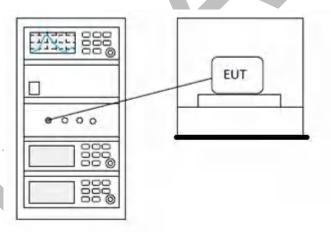
18 MINIMUM 6DB BANDWIDTH

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%					

18.1 LIMITS

Limit: ≥500 kHz

18.2 BLOCK DIAGRAM OF TEST SETUP



18.3 TEST DATA



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19 ANTENNA REQUIREMENT

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

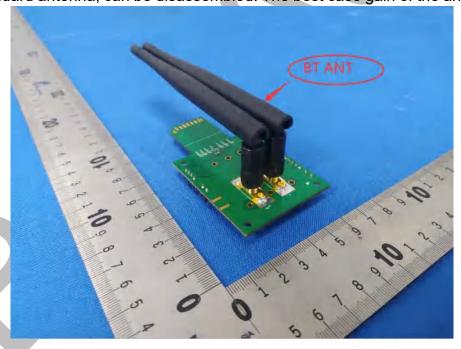
19.1 CONCLUSION

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:

Use non-standard antenna, can be disassembled. The best case gain of the antenna is 4dBi.





20 APPENDIX

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Maximum Conducted Output Power

Condition	Mode	Frequency	Antenna	Conducted Power	Limit	Verdict
		(MHz)		(dBm)	(dBm)	
NVNT	BLE 1M	2402	Ant1	7.684	30	Pass
NVNT	BLE 1M	2442	Ant1	7.498	30	Pass
NVNT	BLE 1M	2480	Ant1	7.5	30	Pass
NVNT	BLE 2M	2402	Ant1	7.676	30	Pass
NVNT	BLE 2M	2442	Ant1	7.502	30	Pass
NVNT	BLE 2M	2480	Ant1	7.524	30	Pass

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2442MHz Ant1





Power NVNT BLE 1M 2480MHz Ant1



Power NVNT BLE 2M 2402MHz Ant1





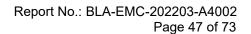
Power NVNT BLE 2M 2442MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1









-6dB Bandwidth

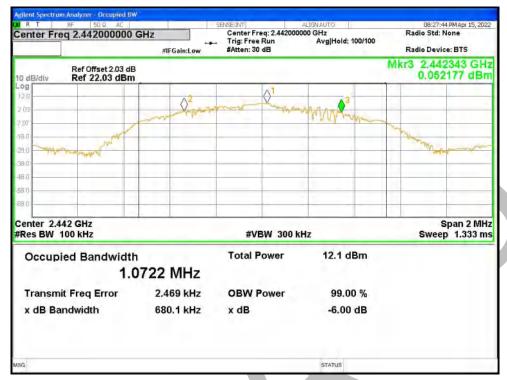
Condition	Mode	Frequency	Antenna	-6 dB Bandwidth	Limit -6 dB	Verdict
		(MHz)		(MHz)	Bandwidth (MHz)	
NVNT	BLE 1M	2402	Ant1	0.651	0.5	Pass
NVNT	BLE 1M	2442	Ant1	0.68	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.66	0.5	Pass
NVNT	BLE 2M	2402	Ant1	0.796	0.5	Pass
NVNT	BLE 2M	2442	Ant1	0.774	0.5	Pass
NVNT	BLE 2M	2480	Ant1	0.849	0.5	Pass

-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	1.040766231
NVNT	BLE 1M	2442	Ant1	1.037873047
NVNT	BLE 1M	2480	Ant1	1.040501848
NVNT	BLE 2M	2402	Ant1	2.068866789
NVNT	BLE 2M	2442	Ant1	2.064775498
NVNT	BLE 2M	2480	Ant1	2.076368607

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	7.214	8	Pass
NVNT	BLE 1M	2442	Ant1	7.008	8	Pass
NVNT	BLE 1M	2480	Ant1	7.03	8	Pass
NVNT	BLE 2M	2402	Ant1	7.201	8	Pass
NVNT	BLE 2M	2442	Ant1	7.019	8	Pass
NVNT	BLE 2M	2480	Ant1	7.051	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

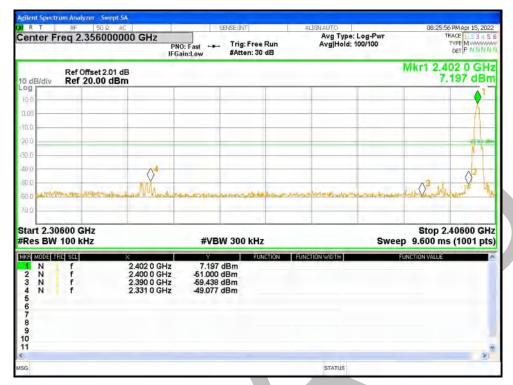
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-56.44	-30	Pass
NVNT	BLE 1M	2480	Ant1	-56.95	-30	Pass
NVNT	BLE 2M	2402	Ant1	-55.39	-30	Pass
NVNT	BLE 2M	2480	Ant1	-55.71	-30	Pass

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



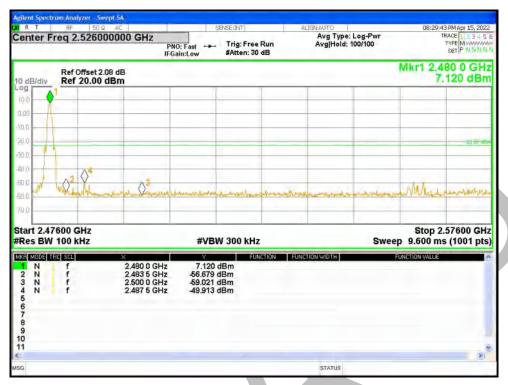


Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



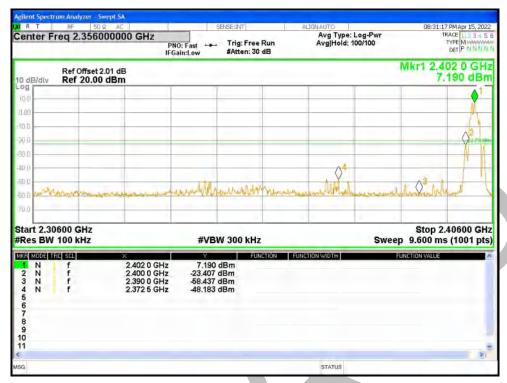


Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



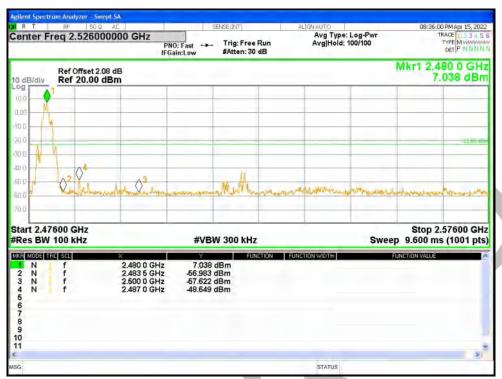


Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission







Conducted RF Spurious Emission

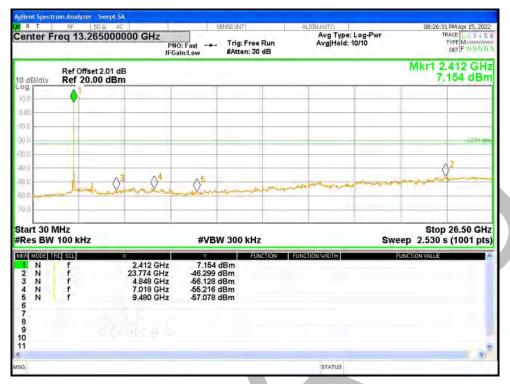
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.5	-30	Pass
NVNT	BLE 1M	2442	Ant1	-53.08	-30	Pass
NVNT	BLE 1M	2480	Ant1	-53.06	-30	Pass
NVNT	BLE 2M	2402	Ant1	-52.56	-30	Pass
NVNT	BLE 2M	2442	Ant1	-52.02	-30	Pass
NVNT	BLE 2M	2480	Ant1	-48.86	-30	Pass

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



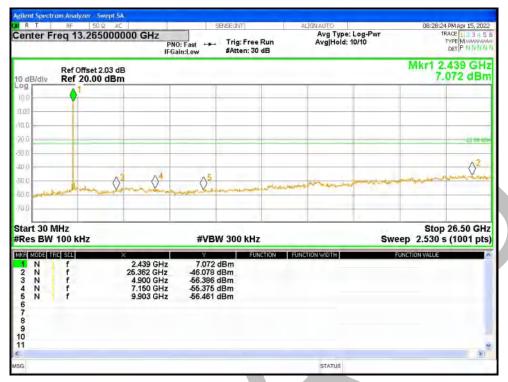


Tx. Spurious NVNT BLE 1M 2442MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2442MHz Ant1 Emission



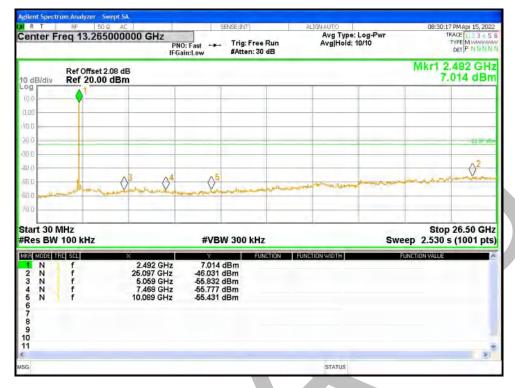


Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref

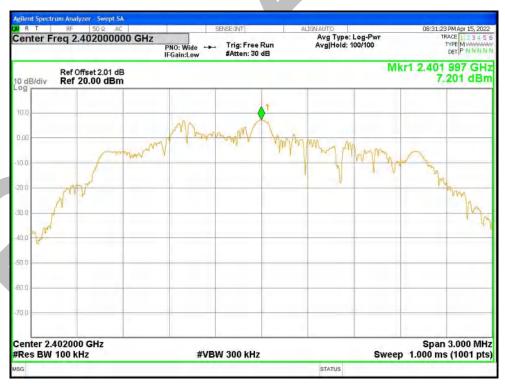


Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



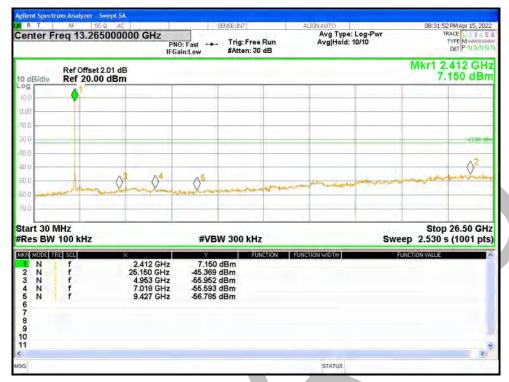


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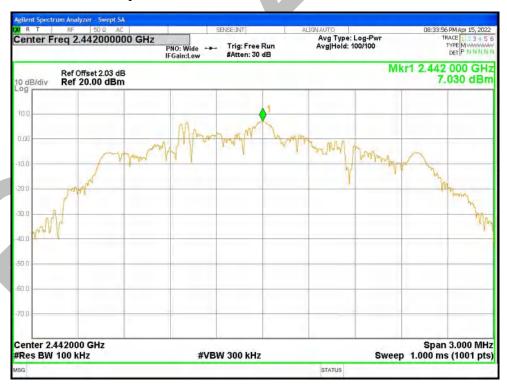


Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



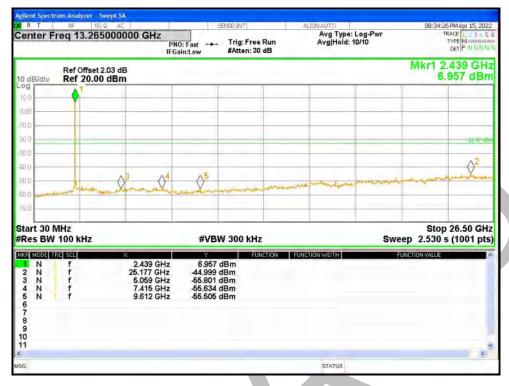


Tx. Spurious NVNT BLE 2M 2442MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2442MHz Ant1 Emission



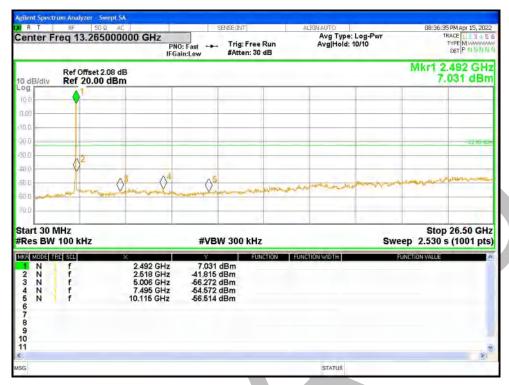


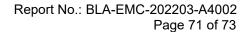
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



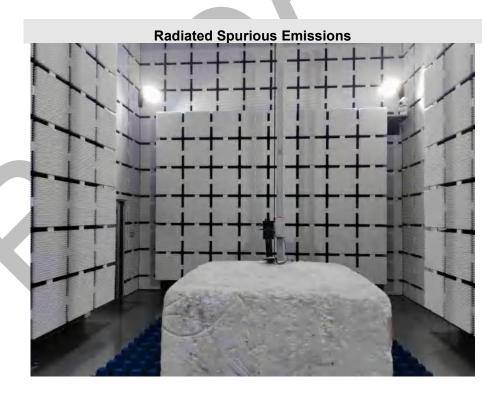






APPENDIX A: PHOTOGRAPHS OF TEST SETUP











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APPENDIX B: PHOTOGRAPHS OF EUT

Reference to the test report No. BLA-EMC-202203-A4001

----END OF REPORT----

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