

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2100348

FCC REPORT (BLE)

Applicant: Neutron Holdings, Inc.

Address of Applicant: 85 2nd St, San Francisco, CA 94105 USA

Equipment Under Test (EUT)

Product Name: Central controller

Model No.: Lime-4.0-US

Trade mark: Lime

FCC ID: 2APB2-LIME40US

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 21 Feb., 2021

Date of Test: 21 Feb., to 30 Mar., 2021

Date of report issued: 30 Mar., 2021

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	30 Mar., 2021	Original

Tested by:	YT Young	Date:	30 Mar., 2021	
	Test Engineer			
	_			

Reviewed by:

| Winner thang | Date: 30 Mar., 2021

Project Engineer





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4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	N/A
Conducted Peak Output Power	15.247 (b)(3)	Appendix A - BLE	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A - BLE	Pass
Power Spectral Density	15.247 (e)	Appendix A - BLE	Pass
Conducted Band Edge	15 247 (d)	Appendix A - BLE	Pass
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission	45 205 % 45 200	Appendix A - BLE	Pass
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02





5 General Information

5.1 Client Information

Applicant:	Neutron Holdings, Inc.
Address:	85 2nd St, San Francisco, CA 94105 USA
Manufacturer/Factory:	MeiG Smart Technology Co., Ltd.
Address:	1/2/3F A, Building A, B, No.5 Lingxia Road, 4th Fenghuang Industrial Park, Fuyong Street, Baoan District, Shenzhen, Guangdong, China

5.2 General Description of E.U.T.

Product Name:	Central controller
Floduct Name.	Central Controller
Model No.:	Lime-4.0-US
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	2.0 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V, 1250mAh
External power supply:	DC 36V
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.

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5.3 Test environment and mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	1010 mbar			
Test mode:				
Transmitting mode	Keep the EUT in continuous transmitting with modulation			

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.





5.8 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
rest Equipment	Manufacturer	model No.	Octiai No.	(mm-dd-yy)	(mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2020	03-02-2021
				03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2020	03-02-2021
Tioni 7 titorina				03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919l)
Dro omplifier	HP	8447D	2944A09358	03-03-2020	03-02-2021
Pre-amplifier	ПР	0447D	2944AU9356	03-03-2021	03-02-2022
Pre-amplifier	CD	DAD 4C40	11004	03-03-2020	03-02-2021
Pre-ampliller	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Cnoatrum analyzar	Rohde & Schwarz	FSP30	101454	03-03-2020	03-02-2021
Spectrum analyzer	Ronde & Schwarz	F3P30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
ENUT (D)	D 1 1 0 0 1	50007	404070	03-03-2020	03-02-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Cianal Conorator	Rohde & Schwarz	SMX	835454/016	03-03-2020	03-02-2021
Signal Generator	Ronde & Schwarz	SIVIX	030404/016	03-03-2021	03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2020	03-02-2021
Signal Generator	Ras	SIVIRZU	1006100050	03-03-2021	03-02-2022
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2020	03-02-2021
Cable	ZDLOL	2100-110-110-01	1000430	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2020	03-02-2021
Cable	WICKO-COAX	WIF N04039	K10742-3	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2020	03-02-2021
Cable	SULINER	30COFLEXIO	30193/4FE	03-03-2021	03-02-2022
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2020	09-24-2021
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2020	10-31-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021

Conducted method:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021		
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021		
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021		
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021		
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021		
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A		
PDU	MWRF-test	XY-G10	N/A	N/A	N/A		
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0		•		
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021		



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Part 15 C Section 15.203 /247(b)

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

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

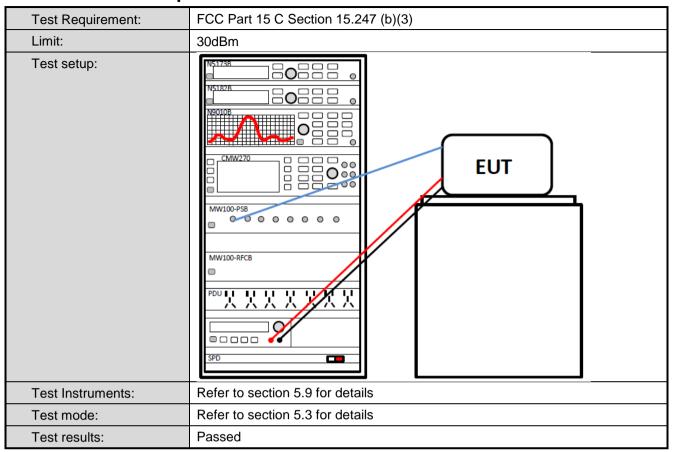
The BLE antenna is an Internal antenna which cannot replace by end-user, the best-case gain of the antenna is 2.0 dBi.

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6.2 Conducted Output Power



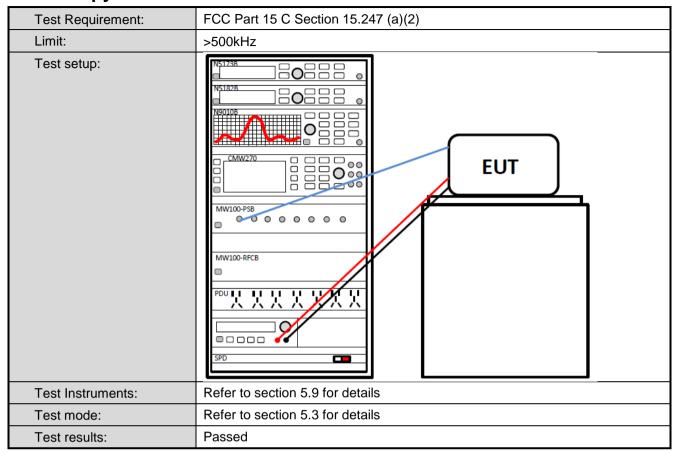
Measurement Data: Refer to Appendix A - BLE

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6.3 Occupy Bandwidth



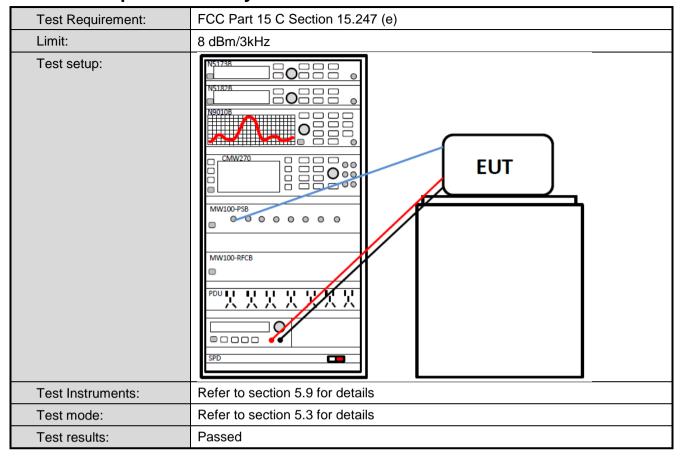
Measurement Data: Refer to Appendix A - BLE

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6.4 Power Spectral Density



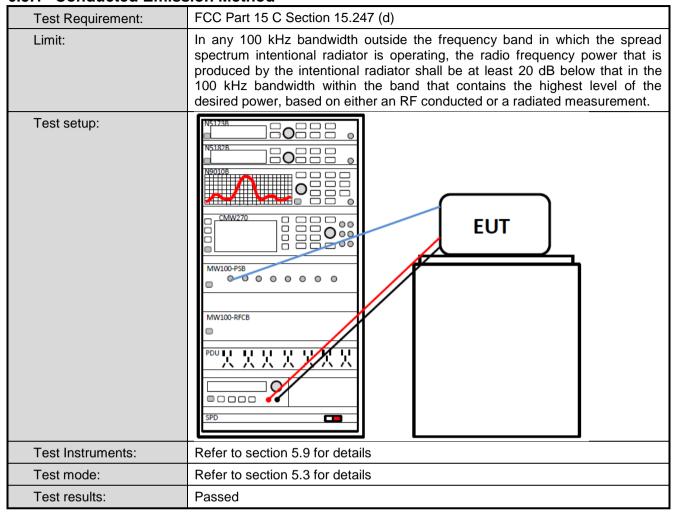
Measurement Data: Refer to Appendix A - BLE

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6.5 Band Edge

6.5.1 Conducted Emission Method



Measurement Data: Refer to Appendix A - BLE



6.5.2 **Radiated Emission Method**

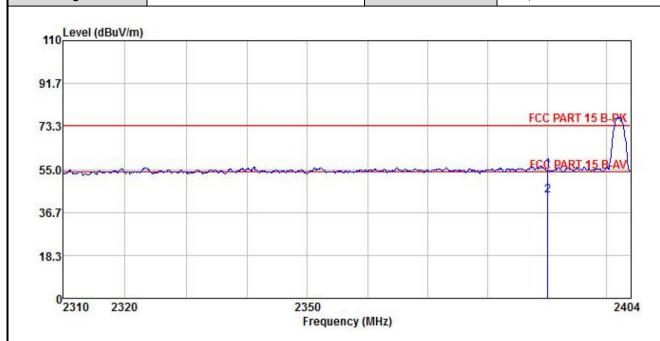
Test Requirement:	FCC Part 15 C	Section 15.	205 and 15.209				
Test Frequency Range:	2310 MHz to 2390 MHz and 2483.5MHz to 2500 MHz						
Test Distance:	3m						
Receiver setup:	Frequency	Detector	RBW	V	'BW	Remark	
	Above 1GHz	Peak	1MHz	_	MHz	Peak Value	
		RMS	1MHz		MHz	Average Value	
Limit:	Frequer	ncy I	Limit (dBuV/m @	(3m)	Remark		
	Above 10	GHz —	54.00 74.00			verage Value Peak Value	
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB 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 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 						
Test setup:	AE (T	Test Receive	Horn Antenna 3m Pic- Amptifer Co	Antenna Ti	ower		
Test Instruments:	Refer to section	on 5.9 for det	ails				
Test mode:	Refer to section 5.3 for details						
	Passed						

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Product Name:	Central controller	Product Model:	Lime-4.0-US		
Test By:	YT	Test mode:	BLE Tx mode		
Test Channel:	Lowest channel	Polarization:	Vertical		
Test Voltage:	DC 36V	Environment:	Temp: 24℃ Huni: 57%		



	Freq						Limit Level Line		Remark
	MHz	₫₿u₹	<u>dB</u> /m	₫B	₫B	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000								

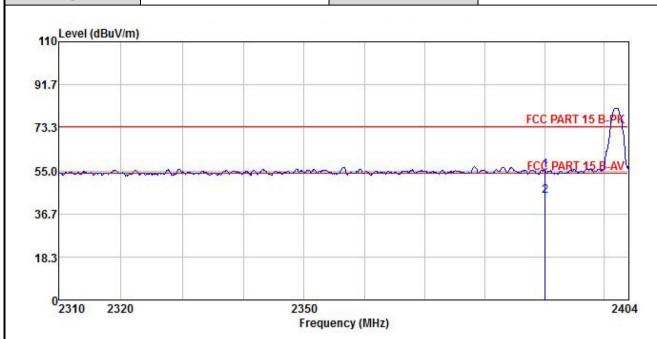
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Central controller	Product Model:	Lime-4.0-US
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 36V	Environment:	Temp: 24℃ Huni: 57%



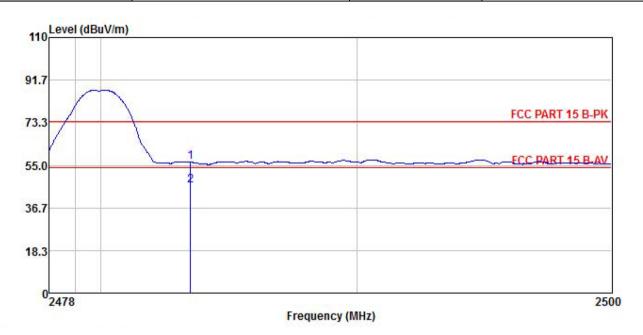
	Freq		Antenna Factor						Remark
	MHz	dBu∜	<u>dB</u> /m	<u>ab</u>	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>d</u> B	
1 2	2390.000 2390.000								

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Central controller	Product Model:	Lime-4.0-US
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 36V	Environment:	Temp: 24℃ Huni: 57%



	Freq					Limit Level Line		Remark
	MHz	dBu∇	 <u>ab</u>	<u>ab</u>	dBuV/m	dBuV/m	<u>ab</u>	
1 2	2483.500 2483.500							

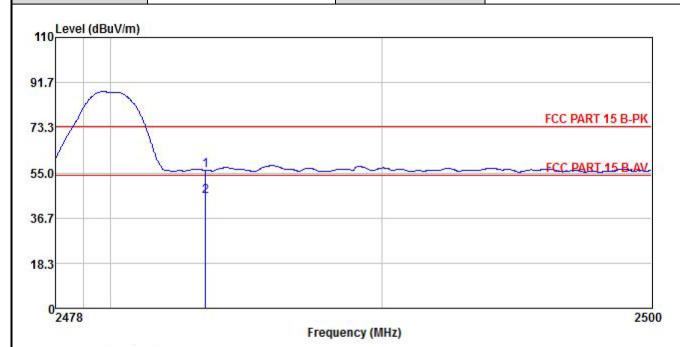
Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Central controller	Product Model:	Lime-4.0-US
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 36V	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu₹	<u>dB</u> /m	<u>ab</u>	₫B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>d</u> B	
1 2	2483.500 2483.500								

Remark:

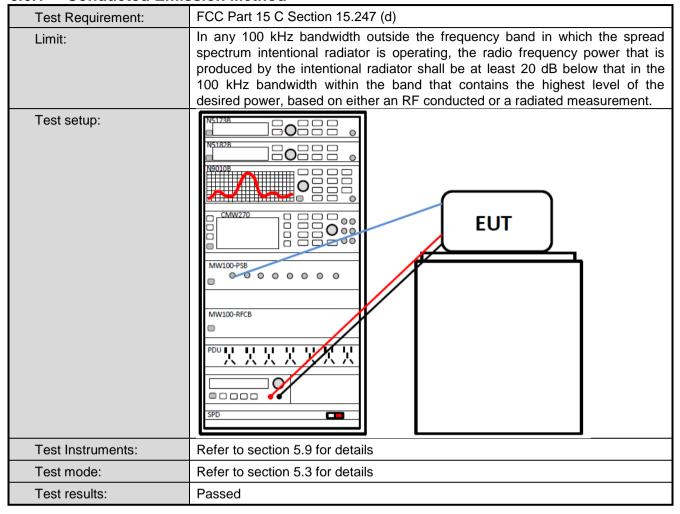
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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6.6 Spurious Emission

6.6.1 Conducted Emission Method



Measurement Data: Refer to Appendix A - BLE

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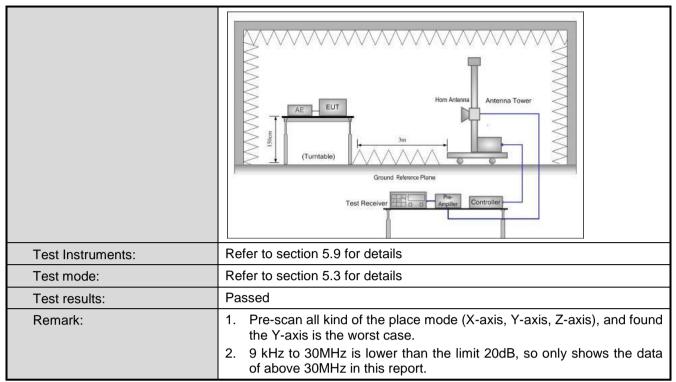


6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.20)5 and 15.209			
Test Frequency Range:	9kHz to 25GHz					
Test Distance:	3m					
Receiver setup:	Frequency	Detector	RBW	VB	sW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	3001	KHz	Quasi-peak Value
	Above 1CHz	Peak	1MHz	3M	Hz	Peak Value
	Above 1GHz	RMS	1MHz	3M	Hz	Average Value
Limit:	Frequency	/ L	imit (dBuV/m @	3m)		Remark
	30MHz-88M	Hz	40.0		C	Quasi-peak Value
	88MHz-216N	/lHz	43.5		C	Quasi-peak Value
	216MHz-960I	MHz	46.0		C	Quasi-peak Value
	960MHz-1G	Hz	54.0		C	Quasi-peak Value
	Above 1GH	lz	54.0			Average Value
			74.0		L	Peak Value table 0.8m(below
	 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB 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 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data 					
Test setup:	EUT	4m 4m 0.8m 1m			Search Antenn Test ceiver —	1

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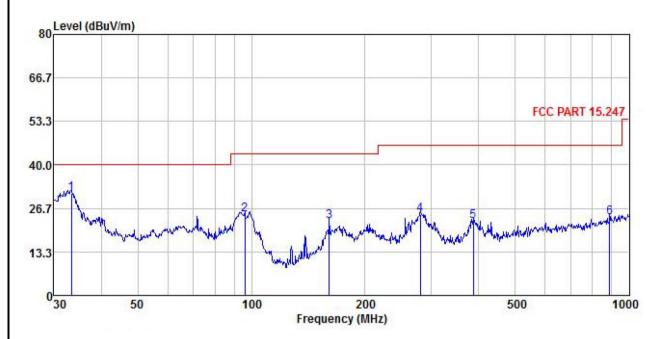




Measurement Data (worst case):

Below 1GHz:

Product Name:	Central controller	Product Model:	Lime-4.0-US
Test By:	YT	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 36V	Environment:	Temp: 24℃ Huni: 57%



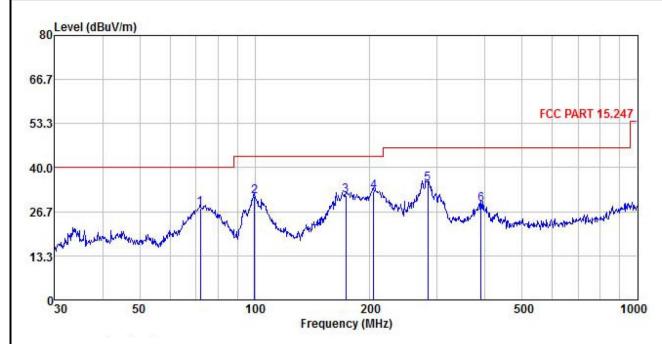
	Freq		ntenna Factor				Limit Line	Over Limit	Remark
<u>-</u>	MHz	dBu∇			<u>dB</u>	dBu√/m	$\overline{dBuV/m}$	<u>dB</u>	
1	33.328	48.58	12.35	0.38	29.96	31.35	40.00	-8.65	QP
2	96.099	44.27	9.27	0.77	29.55	24.76	43.50	-18.74	QP
3	160.909	35.11	15.52	1.13			43.50		
4	280.024	33.08	18.62	1.68	28.48	24.90	46.00	-21.10	QP
2 3 4 5 6	386.634	30.41	19.02	1.99	28.72	22.70	46.00	-23.30	QP
6	887.610	26.06	22.30	3.32	27.91	23.77	46.00	-22.23	QP

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Product Name:	Central controller	Product Model:	Lime-4.0-US
Test By:	YT	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 36V	Environment:	Temp: 24℃ Huni: 57%



	Freq	ReadAntenna Level Factor		Cable Preamp Loss Factor			Limit Line	Over Limit	Remark
-	MHz	—dBu⊽	d <u>B</u> /m	<u>ab</u>	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>ab</u>	
1	72.084	46.20	10.69	0.66	29.70	27.85	40.00	-12.15	QP
2	99.878	51.21	8.80	0.79	29.53	31.27	43.50	-12.23	QP
2	173.205	42.80	16.69	1.23	29.02	31.70	43.50	-11.80	QP
4	204.238	41.86	18.32	1.44	28.80	32.82	43.50	-10.68	QP
5	282.985	43.29	18.63	1.69	28.48	35.13	46.00	-10.87	QP
6	390.723	36.71	19.04	2.00	28.74	29.01	46.00	-16.99	QP

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.

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Above 1GHz

Test channel: Lowest channel											
Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4804.00	49.52	30.78	6.80	2.44	41.81	47.73	74.00	-26.27	Vertical		
4804.00	48.31	30.78	6.80	2.44	41.81	46.52	74.00	-27.48	Horizontal		
	Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4804.00	42.65	30.78	6.80	2.44	41.81	40.86	54.00	-13.14	Vertical		
4804.00	41.78	30.78	6.80	2.44	41.81	39.99	54.00	-14.01	Horizontal		

Test channel: Middle channel											
Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4884.00	50.52	30.96	6.86	2.47	41.84	48.97	74.00	-25.03	Vertical		
4884.00	47.39	30.96	6.86	2.47	41.84	45.84	74.00	-28.16	Horizontal		
	Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4884.00	42.65	30.96	6.86	2.47	41.84	41.10	54.00	-12.90	Vertical		
4884.00	39.97	30.96	6.86	2.47	41.84	38.42	54.00	-15.58	Horizontal		

Test channel: Highest channel											
Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	48.51	31.11	6.91	2.49	41.87	47.15	74.00	-26.85	Vertical		
4960.00	47.16	31.11	6.91	2.49	41.87	45.80	74.00	-28.20	Horizontal		
	Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	41.25	31.11	6.91	2.49	41.87	39.89	54.00	-14.11	Vertical		
4960.00	42.58	31.11	6.91	2.49	41.87	41.22	54.00	-12.78	Horizontal		

Remark:

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.