



TEST REPORT

Report No.:	BCTC2406200363-2E
Applicant:	LEPRO INNOVATION INC.
Product Name:	AI LED outdoor string lights
Test Model:	ZB1-30
Tested Date:	2024-06-19 to 2024-06-26
Issued Date:	2024-06-26
She	enzhen BCTC Testing Co., Ltd.
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FCC ID:2A3MAZB1

Product Name:	AI LED outdoor string lights		
Trademark:	N/A		
Model/Type Reference:	ZB1-30 ZB1-15		
Prepared For:	LEPRO INNOVATION INC.		
Address:	3651 Lindell Road Suite D1048, Las Vegas, NV 89103, USA		
Manufacturer:	LEPRO INNOVATION INC.		
Address:	3651 Lindell Road Suite D1048, Las Vegas, NV 89103, USA		
Prepared By:	Shenzhen BCTC Testing Co., Ltd.		
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China		
Sample Received Date:	2024-06-19		
Sample Tested Date:	2024-06-19 to 2024-06-26		
Issue Date:	2024-06-26		
Report No.:	BCTC2406200363-2E		
Test Standards:	FCC Part15.247 ANSI C63.10-2013		
Test Results:	PASS		
Remark:	This is Bluetooth BLE radio test report.		

Tested by:

kelsey Ton

Kelsey Tan/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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(Note: N/A Means Not Applicable)

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1. Version

Report No.	Issue Date	Description	Approved
BCTC2406200363-2E	2024-06-26	Original	Valid

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2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d), 15.205	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247(d)	PASS
8	Antenna Requirement	15.203	PASS





3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C





4. Product Information And Test Setup

4.1 Product Information

Model/Type Reference: Model differences:	ZB1-30 ZB1-15 All the model are the same circuit and RF module, except model names and wattage of the lamp. The test model is ZB1-30. The lights on the ZB1-30 are 30W,
Bluetooth Version:	the lights on the ZB1-15 are 15W. 5.0
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	2402-2480MHz
Type of Modulation:	GFSK 1Mbps, GFSK 2Mbps
Number Of Channel	40CH
Antenna installation:	PCB antenna
Antenna Gain:	 3.75 dBi Remark: ☑ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. □ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 12V 1.25A
Adapter Information:	Manufacture:XING YUAN ELECTRONICS CO., LTD Model No.:XY15SR-120125VQ-UT Input: AC100-120V 50/60Hz 0.3A Max Output:DC12V 1.25A

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4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission and Radiated Spurious Emission:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	AI LED outdoor string lights	N/A	ZB1-30, ZB1-15	N/A	EUT
E-2	Adapter	N/A	XY15SR-12 0125VQ-U T	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	. 1M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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4.4 Channel List

	Channel List				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2402	11	2422	21	2442
02	2404	12	2424	22	2444
03	2406	13	2426	23	2446
~	~	~	~	~	~
09	2418	19	2438	39	2478
10	2420	20	2440	40	2480

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For All Mode	Description	Modulation Type	
Mode 1	CH01		
Mode 2	CH20	GFSK(1Mbps)	
Mode 3	Mode 3 CH40		
Mode 4	CH01		
Mode 5	CH20	GFSK(2Mbps)	
Mode 6	CH40		
Mode 7	Link mode (Conducted Emission & Radiated emission)		

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) Fully-charged battery is used during the test

4.6 Table of parameters of text software setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version		EspRFTestTool_v3.6	
Frequency	2402 MHz	2440 MHz	2480 MHz
Parameters	DEF	DEF	DEF

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5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

	Conducted Emissions Test				
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025

	RF Conducted Test				
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	I.	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A		May 16, 2024	May 15, 2025
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Radio frequency control box	MAIWEI	MW100-RFC B		\ \	
Software	MAIWEI	MTS 8310			

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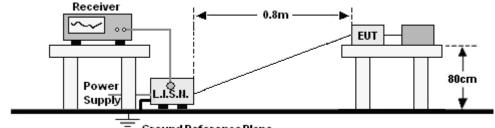
Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 16, 2024	May 15, 2025
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G1 8G-45dB	SK202104090 1	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 16, 2024	May 15, 2025
Horn Antenn(18GH z-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	Λ_{j}

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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



Ground Reference Plane

6.2 Limit

Frequency (MHz)	Limit	(dBuV)
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:

1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT Operating Conditions

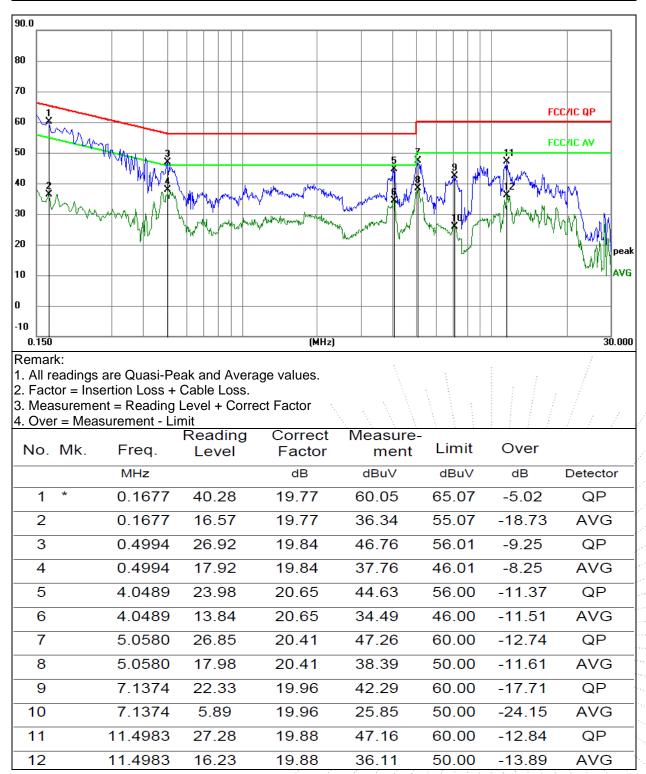
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7	Polarization:	L



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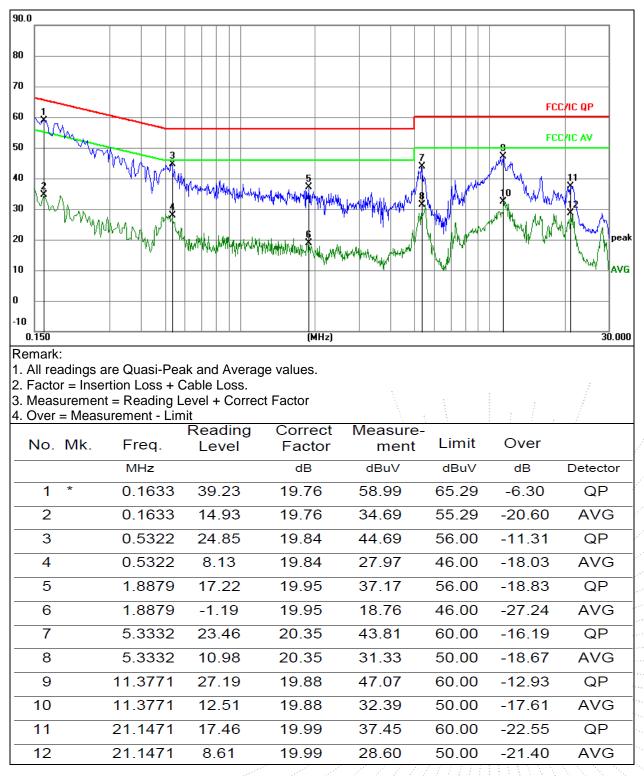
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Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7	Polarization:	Ν



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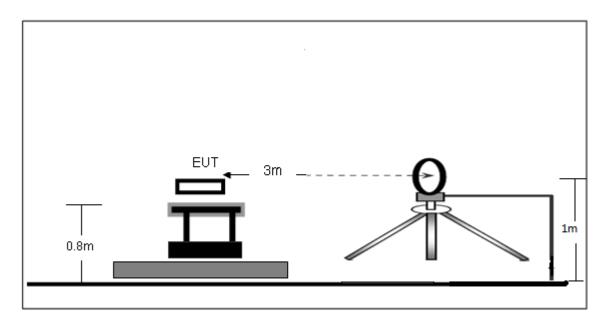
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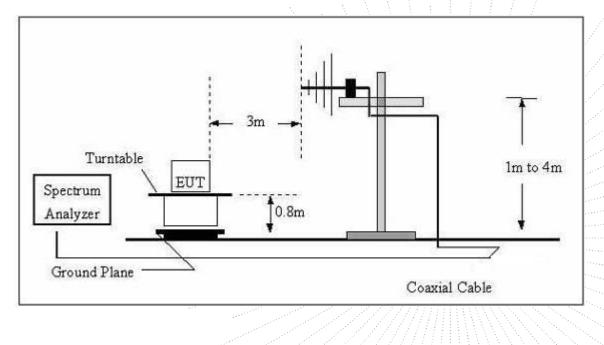


7. Radiated Emissions

- 7.1 Block Diagram Of Test Setup
 - (A) Radiated Emission Test-Up Frequency Below 30MHz

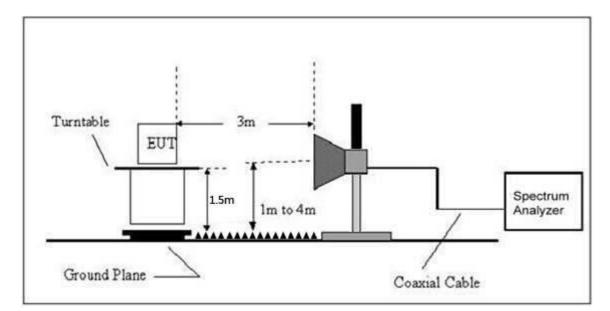








(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Field Strength	Distance	Field Strength Li	mit at 3m Distance
uV/m	(m)	uV/m	dBuV/m
2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80
24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40
30	30	100 * 30	20log ⁽³⁰⁾ + 40
100	3	100	20log ⁽¹⁰⁰⁾
150	3	150	20log ⁽¹⁵⁰⁾
200	3	200	20log ⁽²⁰⁰⁾
500	3	500	20log ⁽⁵⁰⁰⁾
	uV/m 2400/F(kHz) 24000/F(kHz) 30 100 150 200	uV/m (m) 2400/F(kHz) 300 24000/F(kHz) 30 30 30 100 3 150 3 200 3	uV/m (m) uV/m 2400/F(kHz) 300 10000 * 2400/F(kHz) 24000/F(kHz) 30 100 * 24000/F(kHz) 30 30 100 * 24000/F(kHz) 30 30 100 * 30 100 3 100 150 3 150 200 3 200

Limits Of Radiated Emission Measurement (Above 1000MHz)

	Limit (dBuV/m) (at 3M)	
Frequency (MHz)	Peak	Average
Above 1000	74	54

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Frequency Range Of Radiated Measurement

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(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. 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.

d. 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.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.



Above 1GHz test procedure as below:

a. 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.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.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.

d.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.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

g. Test the EUT in the lowest channel, the middlest channel, the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7	Test vollage.	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
		· · · · · · · · · · · · · · · · · · ·		PASS
				PASS

Note:

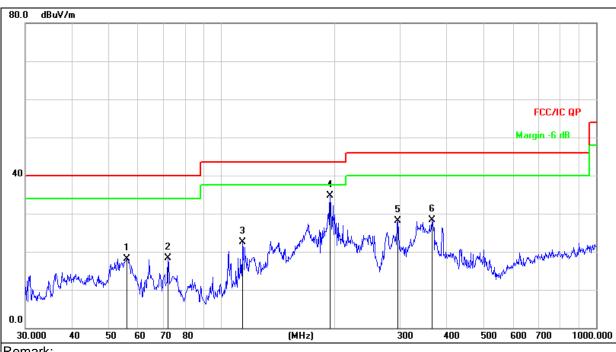
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



Between 30MHz – 1GHz

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7	Polarization:	Horizontal



Remark:

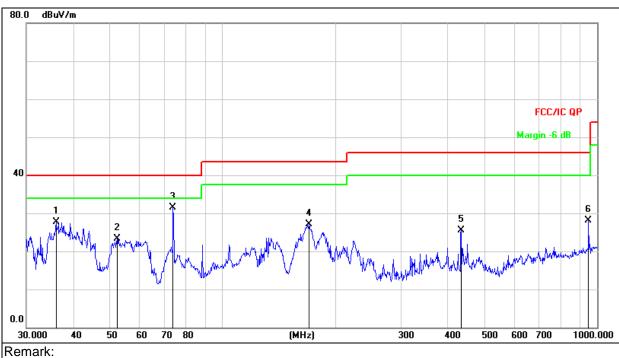
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
 Measurement = Reading Level + Correct Factor

3.	Over =	Measurement ·	- Limit

J. UV6	51 — IVIC					1 1		1
No	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		1104.		1 40101	ment			
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		56.0007	32.87	-14.71	18.16	40.00	-21.84	QP
2		72.0841	36.74	-18.36	18.38	40.00	-21.62	QP
3		114.1137	39.39	-16.92	22.47	43.50	-21.03	QP
4	* •	195.1365	50.76	-16.08	34.68	43.50	-8.82	QP
5		296.1836	41.40	-13.32	28.08	46.00	-17.92	QP
6		364.2595	39.62	-11.30	28.32	46.00	-17.68	QP



Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7	Polarization:	Vertical



1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Measurement = Reading Level + Correct Factor
 Over = Measurement - Limit

3. Over	= Mea	surement - Li	mit					1
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		36.0007	43.22	-15.49	27.73	40.00	-12.27	QP
2		52.3912	37.55	-14.22	23.33	40.00	-16.67	QP
3	*	73.8756	50.27	-18.68	31.59	40.00	-8.41	QP
4	,	170.1948	45.03	-17.93	27.10	43.50	-16.40	QP
5	2	434.0651	35.67	-10.17	25.50	46.00	-20.50	QP
6	(948.7610	30.97	-2.94	28.03	46.00	-17.97	QP



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Between 1GHz – 25GHz 1Mbps

			GFSK				
Polar	Frequency	Reading Level	Correct Factor	Measure-m ent	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
			Low chan	nel			
V	4804.00	71.87	-19.99	51.88	74.00	-22.12	PK
V	4804.00	63.02	-19.99	43.03	54.00	-10.97	AV
V	7206.00	63.62	-14.22	49.40	74.00	-24.60	PK
V	7206.00	53.63	-14.22	39.41	54.00	-14.59	AV
Н	4804.00	70.57	-19.99	50.58	74.00	-23.42	PK
Н	4804.00	60.25	-19.99	40.26	54.00	-13.74	AV
Н	7206.00	62.51	-14.22	48.29	74.00	-25.71	PK
Н	7206.00	54.45	-14.22	40.23	54.00	-13.77	AV
			Middle cha	nnel			
V	4880.00	68.85	-19.84	49.01	74.00	-24.99	PK
V	4880.00	61.22	-19.84	41.38	54.00	-12.62	AV
V	7320.00	60.99	-13.90	47.09	74.00	-26.91	PK
V	7320.00	51.72	-13.90	37.82	54.00	-16.18	AV
Н	4880.00	67.47	-19.84	47.63	74.00	-26.37	PK
Н	4880.00	57.85	-19.84	38.01	54.00	-15.99	AV
Н	7320.00	58.98	-13.90	45.08	74.00	-28.92	PK
Н	7320.00	51.66	-13.90	37.76	54.00	-16.24	AV
			High chan	nel			
V	4960.00	71.65	-19.68	51.97	74.00	-22.03	/ PK
V	4960.00	63.42	-19.68	43.74	54.00	-10.26	AV
V	7440.00	63.33	-13.57	49.76	74.00	-24.24	PK
V	7440.00	54.04	-13.57	40.47	54.00	-13.53	AV
Н	4960.00	68.73	-19.68	49.05	74.00	-24.95	PK
Н	4960.00	58.25	-19.68	38.57	54.00	-15.43	AV
Н	7440.00	60.56	-13.57	46.99	74.00	-27.01	PK
Н	7440.00	52.48	-13.57	38.91	54.00	-15.09	AV

Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
 The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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2Mbps

			GFSK				
Polar	Frequency	Reading Level	Correct Factor	Measure-m ent	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
			Low chan	nel			
V	4804.00	70.62	-19.99	50.63	74.00	-23.37	PK
V	4804.00	61.78	-19.99	41.79	54.00	-12.21	AV
V	7206.00	62.29	-14.22	48.07	74.00	-25.93	PK
V	7206.00	52.65	-14.22	38.43	54.00	-15.57	AV
Н	4804.00	69.37	-19.99	49.38	74.00	-24.62	PK
Н	4804.00	59.56	-19.99	39.57	54.00	-14.43	AV
Н	7206.00	59.63	-14.22	45.41	74.00	-28.59	PK
Н	7206.00	51.82	-14.22	37.60	54.00	-16.40	AV
		•	Middle char	nel			
V	4880.00	68.50	-19.84	48.66	74.00	-25.34	PK
V	4880.00	61.84	-19.84	42.00	54.00	-12.00	AV
V	7320.00	60.07	-13.90	46.17	74.00	-27.83	PK
V	7320.00	51.04	-13.90	37.14	54.00	-16.86	AV
Н	4880.00	64.92	-19.84	45.08	74.00	-28.92	PK
Н	4880.00	55.36	-19.84	35.52	54.00	-18.48	AV
Н	7320.00	59.01	-13.90	45.11	74.00	-28.89	PK
Н	7320.00	50.52	-13.90	36.62	54.00	-17.38	AV
		•	High chan	nel			
V	4960.00	70.10	-19.68	50.42	74.00	-23.58	PK
V	4960.00	61.69	-19.68	42.01	54.00	-11.99	AV
V	7440.00	62.19	-13.57	48.62	74.00	-25.38	PK
V	7440.00	52.75	-13.57	39.18	54.00	-14.82	AV
Н	4960.00	68.31	-19.68	48.63	74.00	-25.37	PK
Н	4960.00	58.69	-19.68	39.01	54.00	-14.99	AV
Н	7440.00	60.52	-13.57	46.95	74.00	-27.05	PK
Н	7440.00	51.91	-13.57	38.34	54.00	-15.66	AV

Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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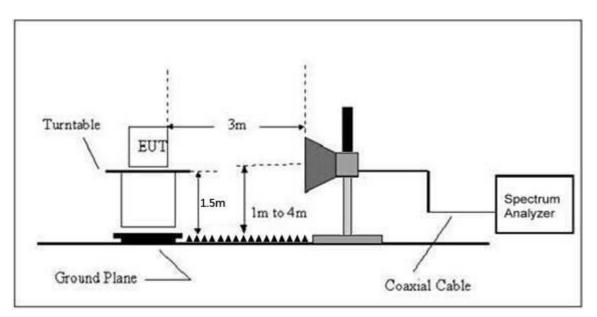
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8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			



Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)		
	Peak	Average	
Above 1000	74	54	

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

a. 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.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.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.

d.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.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

g. Test the EUT in the lowest channel, the Highest channel.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.



8.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

8.5 Test Result

		(MHz)	Level	Correct Factor	ment (dBuV/m)		nits V/m)	Over	Result
			(dBuV/m)	(dB)	PK	PK	AV	PK	
	Low Channel 2402MHz								
	Н	2390.00	72.29	-25.43	46.86	74.00	54.00	-27.14	PASS
	Н	2400.00	73.42	-25.40	48.02	74.00	54.00	-25.98	PASS
	V	2390.00	71.65	-25.43	46.22	74.00	54.00	-27.78	PASS
GESK(1Mbpc)	V	2400.00	72.09	-25.40	46.69	74.00	54.00	-27.31	PASS
GFSK(1Mbps)	High Channel 2480MHz								
	Н	2483.50	72.29	-25.15	47.14	74.00	54.00	-26.86	PASS
	Н	2500.00	68.51	-25.10	43.41	74.00	54.00	-30.59	PASS
	V	2483.50	69.95	-25.15	44.80	74.00	54.00	-29.20	PASS
	V	2500.00	66.78	-25.10	41.68	74.00	54.00	-32.32	PASS
	Low Channel 2402MHz								
	Н	2390.00	72.34	-25.43	46.91	74.00	54.00	-27.09	PASS
	Н	2400.00	73.51	-25.40	48.11	74.00	54.00	-25.89	PASS
	V	2390.00	73.19	-25.43	47.76	74.00	54.00	-26.24	PASS
CESK(2Mbpc)	V	2400.00	74.02	-25.40	48.62	74.00	54.00	-25.38	PASS
GFSK(2Mbps)	High Channel 2480MHz								
	Н	2483.50	72.62	-25.15	47.47	74.00	54.00	-26.53	PASS
	Н	2500.00	69.21	-25.10	44.11	74.00	54.00	-29.89	PASS
	V	2483.50	73.44	-25.15	48.29	74.00	54.00	-25.71	PASS
	V	2500.00	68.71	-25.10	43.61	74.00	54.00	-30.39	PASS

Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247), Subpart C							
Section Test Item Limit Frequency Range (MHz) Resul							
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS			

Limits Of Radiated Emission Measurement (Above 1000MHz)

9.3 Test procedure

1. Set analyzer center frequency to DTS channel center frequency.

- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: 3 kHz
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.

9. Use the peak marker function to determine the maximum amplitude level within the RBW.

10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT Operating Conditions.

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

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9.5 Test Result

Temperature:	26 °C	Relative Hu	Relative Humidity:		54%RH	
Pressure:	101KPa	Test Voltag	Test Voltage :		DC 12V	
Mode	Frequency	Power Spectral Density(dBm/3kHz)	Limit (dBm/3kHz)		Result	
	2402 MHz	-16.10	8		PASS	
GFSK(1Mbps)	2440 MHz	-14.56	8		PASS	
	2480 MHz	-14.28	8		PASS	
	2402 MHz	-20.91	8		PASS	
GFSK(2Mbps)	2440 MHz	-19.26	8		PASS	
	2480 MHz	-19.05	8		PASS	

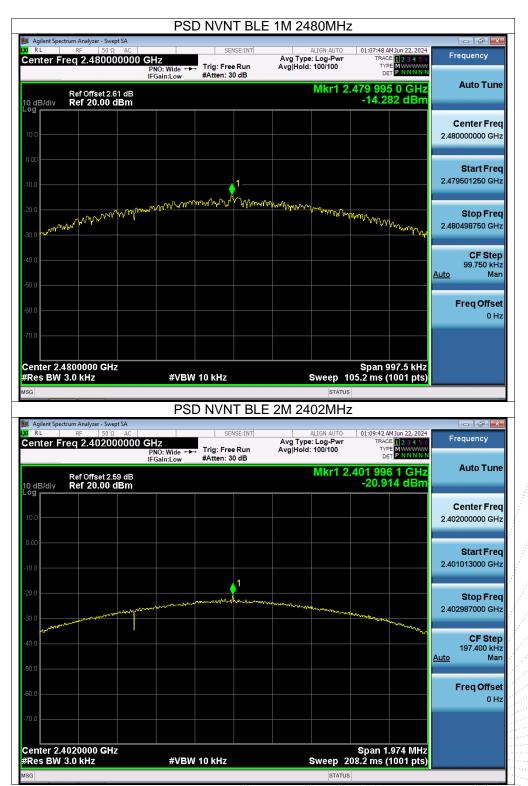
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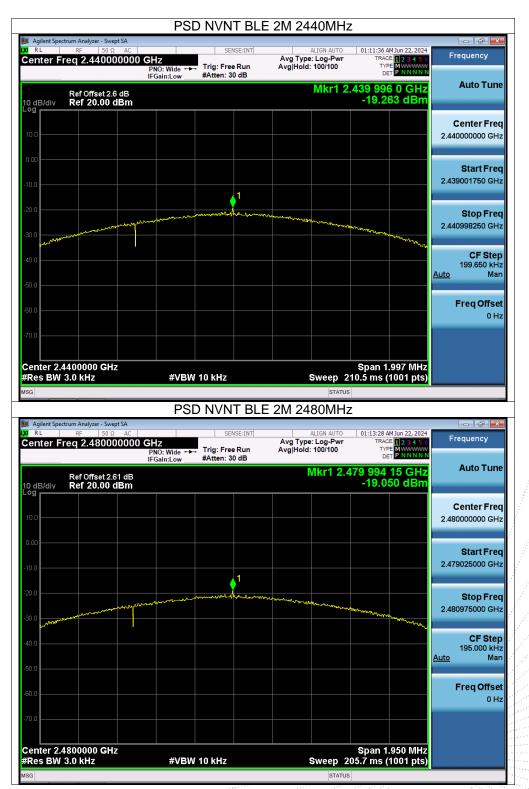


	Test G PSD NVNT BLE			
Agilent Spectrum Analyzer - Swept SA	POD INVINT BLE	: 11VI 2402IVIHZ		
RL RF 50 Ω AC enter Freq 2.402000000 GHz PNC): Wide 🛶 Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100	01:04:30 AM Jun 22, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N	Frequency
Ref Offset 2.59 dB 0 dB/div Ref 20.00 dBm	iin:Low #Atten: 30 dB	Mkr1 2.4	01 996 1 GHz -16.097 dBm	Auto Tuno
og 				Center Free 2.402000000 GH:
0.0	1			Start Fred 2.401508750 GH:
0.0 mm	www.mmm.mm.m.	and a construction of the second of the	WAYMAN MANAGAN	Stop Fred 2.402491250 GH
0.0				CF Step 98.250 kH Auto Mar
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enter 2.4020000 GHz			Span 982.5 kHz	
Res BW 3.0 kHz	#VBW 10 kHz	Sweep 103	.6 ms (1001 pts)	
G		STATUS		
	PSD NVNT BLE			
Agilent Spectrum Analyzer - Swept SA R L RF 50 Ω AC	SENSE:INT	ALIGN AUTO	01:06:24 AM Jun 22, 2024	Frequency
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.440000000 GHz PNC	SENSE:INT Sense:INT Sense:INT	1M 2440MHz	01:06:24 AM Jun 22, 2024 TRACE 1 2 3 4 5 6 TYPE M 4444 DET 2 NINN N	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.440000000 GHz PNC IFGe Ref Offset 2.6 dB 0 dB/div Ref 20.00 dBm	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr AvgjHoid: 100/100	TRACE 1 2 3 4 5 6	Frequency
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.440000000 GHz PNC PNC IFGe dB/div Ref 20.00 dBm	SENSE:INT Sense:INT Sense:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr AvgjHoid: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN 39 996 1 GHz	Frequency Auto Tun Center Free
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.440000000 GHz PNC PNC PNC IFGe Od B/div Ref 20.00 dBm Od Og Image: Comparison of the second of the s	SENSE:INT Styles → Trig: Free Run #Atten: 30 dB	Augnoria Auto Augnoria Auto Avg Type: Log-Pwr Avg Hold: 100/100 Mkr1 2.4	TRACE [] 2 3 4 5 6 TYPE MANNAN DET PANANNA 39 996 1 GHz -14.560 dBm	Frequency Auto Tune Center Free 2.44000000 GH: Start Free
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.440000000 GHz PNC PNC PNC IFGe 0 dB/div Ref 20.00 dBm 0 0 0 0 0 0	SENSE:INT Styles → Trig: Free Run #Atten: 30 dB	Augnoria Auto Augnoria Auto Avg Type: Log-Pwr Avg Hold: 100/100 Mkr1 2.4	TRACE [] 2 3 4 5 6 TYPE MANNAN DET PANANNA 39 996 1 GHz -14.560 dBm	Frequency Auto Tune 2.44000000 GH Start Free 2.439506500 GH
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.440000000 GHz PNC PNC PNC IFGe Q Ref 0ffset 2.6 dB Q	SENSE:INT Styles → Trig: Free Run #Atten: 30 dB	Aug Type: Log-Pwr Avg Type: Log-Pwr AvgjHoid: 100/100	тисе [] 2 3 4 5 6 туре Минини 39 996 1 GHz -14.560 dBm	Start Frequency Auto Tune Center Frequency 2.440000000 GH: Start Frequency 2.439506500 GH: Stop Frequency 2.4400493500 GH: CF Step 98.700 kH:
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.440000000 GHz PNC Ref Offset 2.6 dB 0 dB/div Ref 20.00 dBm 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	SENSE:INT Styles → Trig: Free Run #Atten: 30 dB	Augnoria Auto Augnoria Auto Avg Type: Log-Pwr Avg Hold: 100/100 Mkr1 2.4	тисе [] 2 3 4 5 6 туре Минини 39 996 1 GHz -14.560 dBm	Auto Tune Center Free 2.440000000 GH: Start Free 2.439506500 GH: Stop Free 2.440493500 GH: CF Step 98.700 kH: Mar
enter Freq 2.44000000 GHz PNC IFGe Ref Offset 2.6 dB dB/div Ref 20.00 dBm 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	SENSE:INT Styles → Trig: Free Run #Atten: 30 dB	Augnoria Auto Augnoria Auto Avg Type: Log-Pwr Avg Hold: 100/100 Mkr1 2.4	тисе [] 2 3 4 5 6 туре Минини 39 996 1 GHz -14.560 dBm	Frequency Auto Tune Center Free 2.440000000 GH Start Free 2.439506500 GH Stop Free 2.440493500 GH CF Step 98.700 kH Mar Freq Offse
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.440000000 GHz PNC IFGe Ref Offset 2.6 dB 0 dB/div Ref 20.00 dBm 00 0.0	SENSE:INT Styles → Trig: Free Run #Atten: 30 dB	Augnoria Auto Augnoria Auto Avg Type: Log-Pwr Avg Hold: 100/100 Mkr1 2.4	ткасе [] 2 3 4 5 6 туре Мининин 39 996 1 GHz -14.560 dBm	Start Frequency Auto Tune Center Frequency 2.440000000 GH: Start Frequency 2.439506500 GH: Stop Frequency 2.4400493500 GH: CF Step 98.700 kH:
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q. AC enter Freq 2.440000000 GHz PNC IFGe Ref Offset 2.6 dB 0 dB/div Ref 20.00 dBm 00	SENSE:INT Styles → Trig: Free Run #Atten: 30 dB	1M 2440MHz	тисе [] 2 3 4 5 6 туре Минини 39 996 1 GHz -14.560 dBm	Frequency Auto Tune Center Free 2.440000000 GH: Start Free 2.439506500 GH: Stop Free 2.440493500 GH: CF Step 98.700 kH: Mar Freq Offse











10. Bandwidth Test

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C						
Section Test Item Limit			Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (-6dB bandwidth)	2400-2483.5	PASS		

10.3 Test procedure

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

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10.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage :	DC 12V

Mode	Frequency (MHz)	-6dB bandwidth (MHz)	Limit (kHz)	Result
	2402	0.655	500	Pass
GFSK(1Mbps)	2440	0.658	500	Pass
	2480	0.665	500	Pass
	2402	1.316	500	Pass
GFSK(2Mbps)	2440	1.331	500	Pass
	2480	1.300	500	Pass

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11. Peak Output Power Test

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test Procedure

a. The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

11.5 Test Result

Temperature:	26 ℃	The second second	Relative Humidity:	54%RH
Pressure:	101KPa		Test Voltage :	DC 12V

Mode	Frequency(MHz)	Maximum Conducted Output Power(PK) (dBm)	Conducted Output Power Limit(dBm)
GFSK(1Mbps)	2402	-0.02	30
	2440	1.45	30
	2480	1.72	30
GFSK(2Mbps)	2402	-0.35	30
	2440	1.22	30
	2480	1.49	30



12. 100 kHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup



12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

12.3 Test procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize.

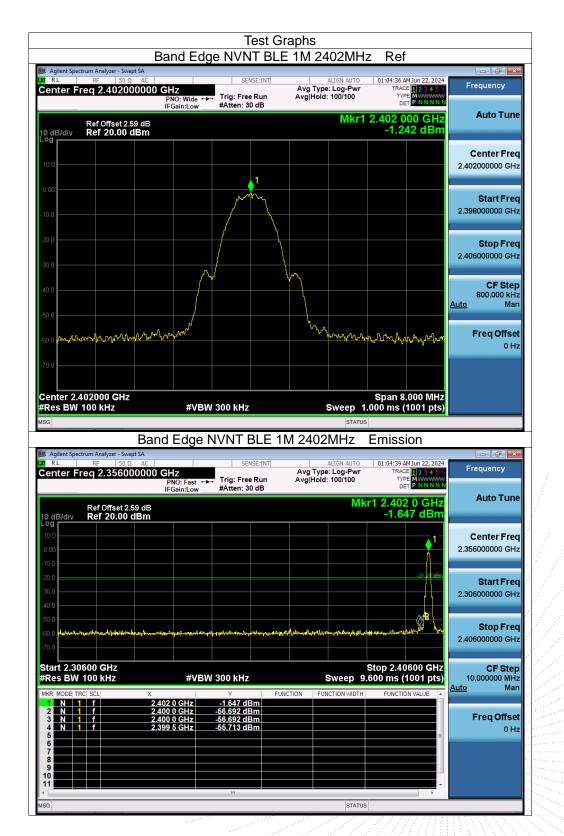
12.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

12.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%RH	
Pressure:	101KPa	Test Voltage :	DC 12V	

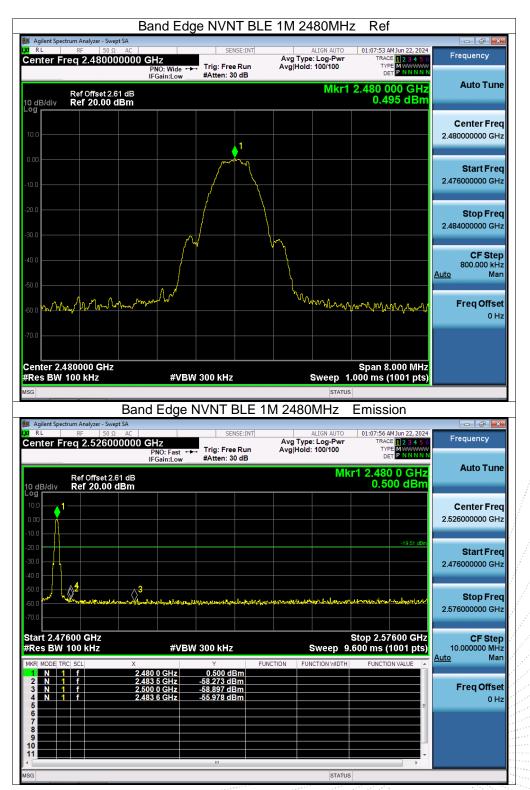




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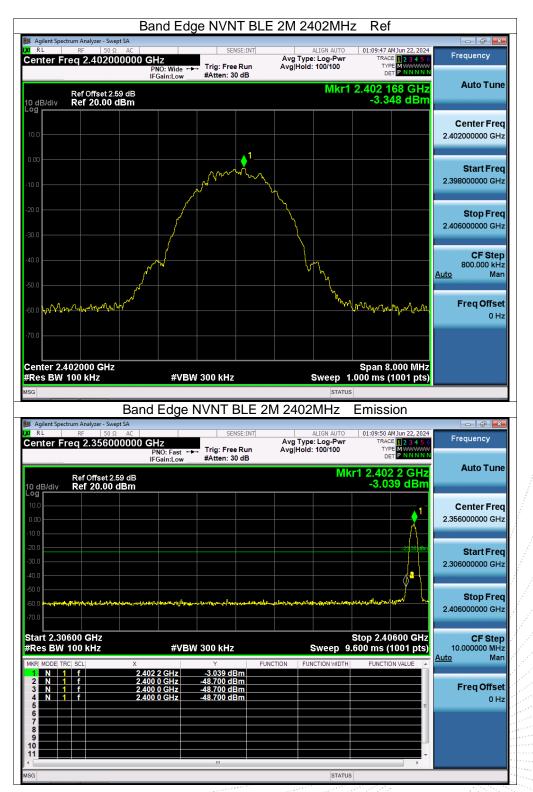
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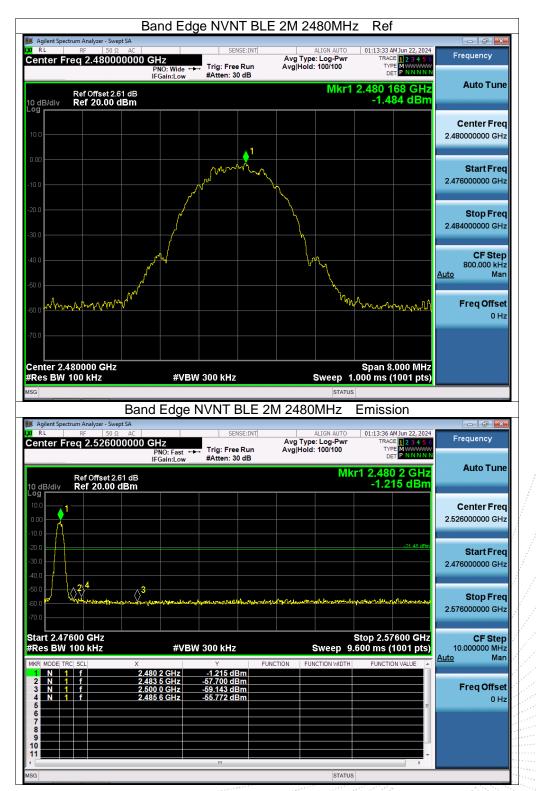


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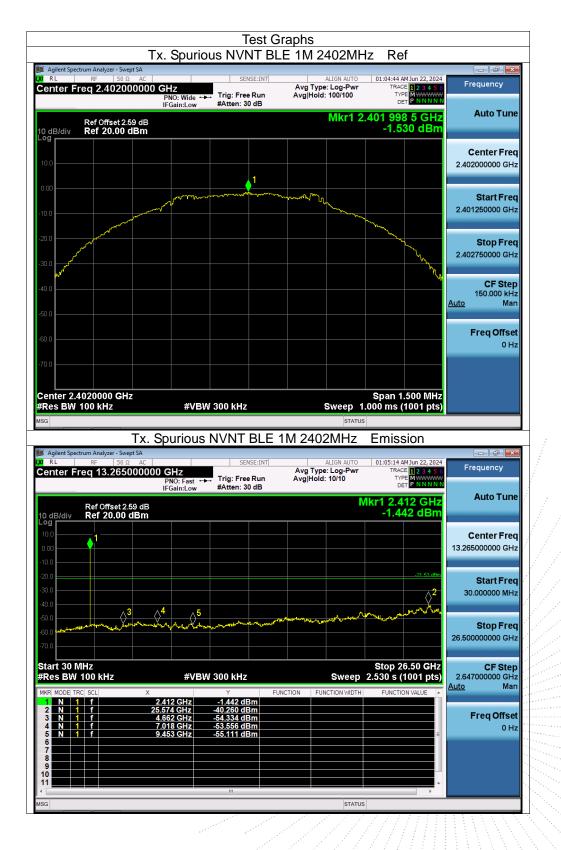








Conducted Emission Measurement



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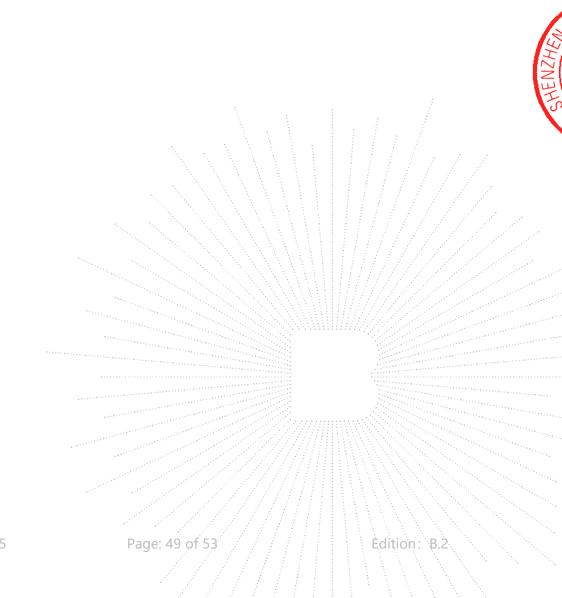
13. Antenna Requirement

13.1 Limit

15.203 requirement: For intentional device, according to 15.203: 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.

13.2 Test Result

The EUT antenna is PCB antenna, fulfill the requirement of this section.





14. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details

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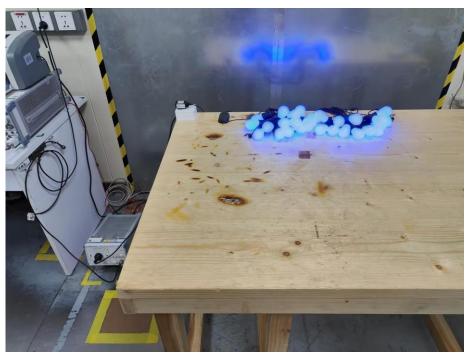
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15. EUT Test Setup Photographs

Conducted emissions



Radiated Measurement Photos



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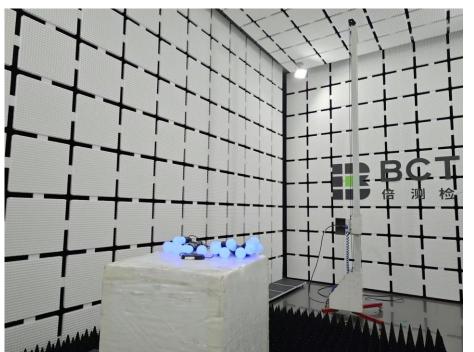
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Spurious emissions





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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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