

# **RF TEST REPORT**

Product Name: Label printer

Model Name: X2, X2pro, X2plus, X2S, X2Y, X2Z

FCC ID: 2A2AI-X2

Issued For : Shenzhen Yinxiaoqian technology Co., Ltd.

202E, building A4, Hom Industrial Zone, 41 Wuhe Avenue (South) Nankeng community, Bantian street, Longgang District, Shenzhen.China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT24L163RF04
Sample Received Date:	Dec. 26, 2024
Date of Test:	Dec. 26, 2024 ~ Jan. 21, 2025
Date of Issue:	Jan. 21, 2025

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# **TEST REPORT CERTIFICATION**

Applicant:	Shenzhen Yinxiaoqian technology Co., Ltd.
Address:	202E, building A4, Hom Industrial Zone, 41 Wuhe Avenue (South) Nankeng community, Bantian street, Longgang District, Shenzhen.China
Manufacturer:	Shenzhen Yinxiaoqian technology Co., Ltd.
Address:	202E, building A4, Hom Industrial Zone, 41 Wuhe Avenue (South) Nankeng community, Bantian street, Longgang District, Shenzhen.China
Product Name:	Label printer
Trademark:	MARKLIFE
Model Name:	X2, X2pro, X2plus, X2S, X2Y, X2Z
Sample Status:	Normal

APPLICABLE STANDARDS					
STANDARD TEST RESULTS					
FCC Part 15.247, Subpart C ANSI C63.10-2013	PASS				

Prepared by:

Zane Shan

Zane Shan Engineer

Approved by:

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Vita Li Technical Director





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# **Revision History**

Rev.	Issue Date	Revisions
00	Jan. 21, 2025	Initial Issue



# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 Part 15.247 Meas Guidance v05r02.

FCC Part 15.247, Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)(3)	Output Power	PASS			
15.209	Radiated Spurious Emission	PASS			
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS			
15.247 (e)	Power Spectral Density	PASS			
15.205	Restricted Band Edge Emission	PASS			
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

#### NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.



## 1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.		
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China		
	A2LA Certificate No.: 6727.01		
Accreditation Certificate	FCC Registration No.: 746540		
	CAB ID: CN0136		

# 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB

Note: The measurement uncertainty is not included in the test result.



# 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Label printer			
Trademark:	MARKLIFE			
Model Name:	X2			
Series Model:	X2pro, X2plus, X2S, X2Y,	X2Z		
Model Difference:	All above models are identical in the same PCB layout, interior structure and electrical circuits, The difference is color.			
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	GFSK		
	Radio Technology:	BLE		
Product Description:	Bluetooth Configuration:	BLE (1M PHY)		
	Number Of Channel:	40		
	Antenna Designation:	PCB		
	Antenna Gain (dBi)	-0.93		
Channel List:	Please refer to the Note 3.			
Rating:	Input: DC 5V 2.3A			
Battery:	Capacity: 1200mAh Rated Voltage: 7.4V			
Hardware Version:	N/A			
Software Version:	N/A			
Connecting I/O Port(s):	Please refer to the Note 1.			

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

<sup>3.</sup> 

	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480



## 2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 MHz/GFSK
Mode 2	TX CH19(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.(2) We have be tested for all avaiable U.S. voltage and frequency (For 120V,50/60Hz

and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

(3) The battery is fully-charged during the radited and RF conducted test.

For AC Conducted Emission

	Test Case
AC Conducted Emission	Mode 4: Keeping BLE TX

## 2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: BLE			
fcc_test_tool V2.4.3	Mode Or Modulation type	Power setting		
	1M	5		



## 2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

#### Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
USB-A to USB-C Cable	N/A	N/A	N/A	0.3m

#### Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	Tenpao	S005CAU0500100	N/A	Input: 100-240V ~ 50/60Hz 0.2A Output: 5V, 1A
Mobile phone	SHARK	KSR-10	N/A	N/A
Laptop	Lenovo	HKF-16	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in <sup>r</sup> Length <sup>\_</sup> column.
- (2) "YES" is means "with core"; "NO" is means "without core".



## 2.5 EQUIPMENTS LIST

Conducted Emission										
Equipment Manufacturer Model No. Serial No. Cal. Date Cal. U										
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08					
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08					
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08					
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08					
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08					
Testing Software		EMC-I_V1.4.0.3_SKET								

## Radiated Test equipment

Radiated lest equipment						
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until	
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08	
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12	
Spectrum Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04	
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.12.12	2025.12.11	
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01	
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2025.06.07	
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2024.03.09	2025.03.08	
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08	
Pre-amplifier(18-40G)	com-mw	LNPA_18-40-01	18050003	2024.03.09	2025.03.08	
Wireless Communications Test Set	R&S	CMW 500	137737	2024.03.09	2025.03.08	
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A	
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10	
Testing Software		EMC-I_V1.4.0.3_SKET				

# **RF Conducted Test equipment**

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until		
Signal Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04		
Signal Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08		
RF Automatic Test system	MW	MW100-RFCB	MW220322LG-033	2024.03.09	2025.03.08		
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08		
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2024.03.09	2025.03.08		
Attenuator	eastsheep	90db	N.A	2024.03.09	2025.03.08		
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10		
Digital multimeter	MASTECH	MS8261	MBGBC83053	2024.03.09	2025.03.08		
Testing Software		MTS8310_V2.0.0.0_MW					



# 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

## 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)			
	Quasi-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		

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

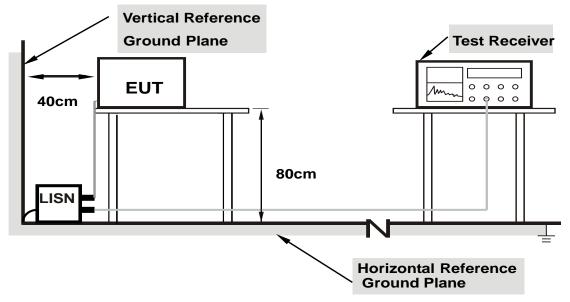
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



## 3.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

# 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

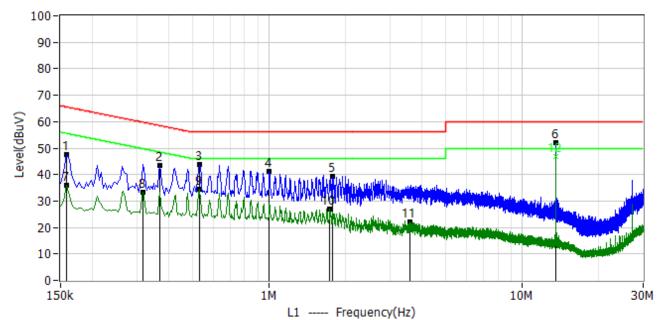
## 3.4 EUT OPERATING CONDITIONS

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.



# 3.5 TEST RESULTS

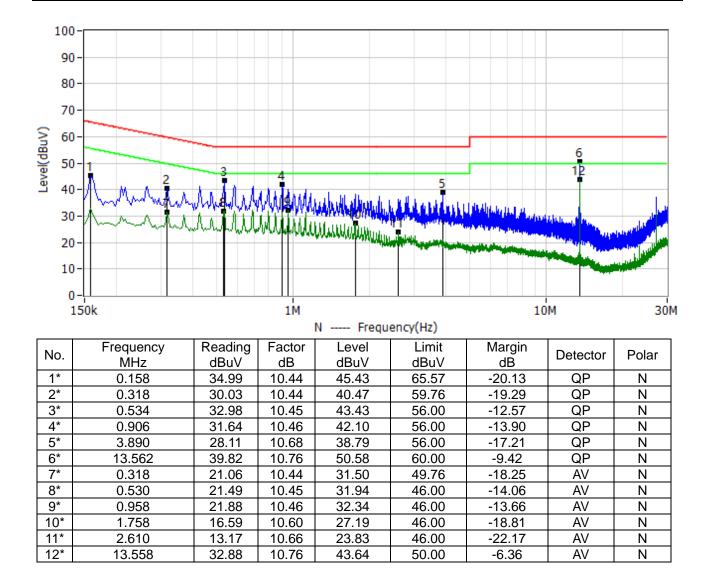
Project: LGT24L163	Test Engineer: LiuH	
EUT: Label printer	Temperature: 22.5°C	
M/N: X2	Humidity: 35%RH	
Test Voltage: AC 120V/60Hz	Test Data: 2025-01-06	
Test Mode: TX BLE 2402		
Note:		



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.158	37.33	10.34	47.67	65.57	-17.90	QP	L1
2*	0.370	32.95	10.35	43.30	58.50	-15.20	QP	L1
3*	0.530	33.38	10.35	43.73	56.00	-12.27	QP	L1
4*	1.002	31.01	10.36	41.37	56.00	-14.63	QP	L1
5*	1.786	28.69	10.51	39.20	56.00	-16.80	QP	L1
6*	13.558	41.30	10.76	52.06	60.00	-7.94	QP	L1
7*	0.158	25.79	10.34	36.13	55.57	-19.44	AV	L1
8*	0.318	23.15	10.34	33.49	49.76	-16.27	AV	L1
9*	0.530	24.17	10.35	34.52	46.00	-11.48	AV	L1
10*	1.738	16.51	10.50	27.01	46.00	-18.99	AV	L1
11*	3.582	11.64	10.57	22.21	46.00	-23.79	AV	L1
12	13.558	35.91	10.80	46.71	50.00	-3.29	AV	L1



Project: LGT24L163	Test Engineer: LiuH
EUT: Label printer	Temperature: 22.5°C
M/N: X2	Humidity: 35%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-01-06
Test Mode: TX BLE 2402	
Note:	





# 4. RADIATED EMISSION MEASUREMENT

## 4.1 RADIATED EMISSION LIMITS

In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

## LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

## LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

	(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).

## LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)	
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	
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	6.31175-6.31225 123-138		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	Above 38.6	
13.36-13.41				



## For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP/AV		
Start Frequency	9 KHz/150KHz (Peak/QP/AV)		
Stop Frequency	150KHz/30MHz (Peak/QP/AV)		
	200Hz (From 9kHz to 0.15MHz)/		
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);		
band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz)		

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/QP	
Start Frequency	30 MHz (Peak/QP)	
Stop Frequency	1000 MHz (Peak/QP)	
RB / VB (emission in restricted		
band)	120 KHz / 300 KHz	

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz (Peak/AV)		
Stop Frequency	10th carrier hamonic (Peak/AV)		
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)		
band)	1 MHz/1/T MHz(AVG)		
For Restricted band			
Spectrum Parameter	Setting		
Detector	Peak		
Stort/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 to 2500 MHz		
	1 MHz / 3 MHz(Peak)		
RB / VB	1 MHz/1/T MHz(AVG)		

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



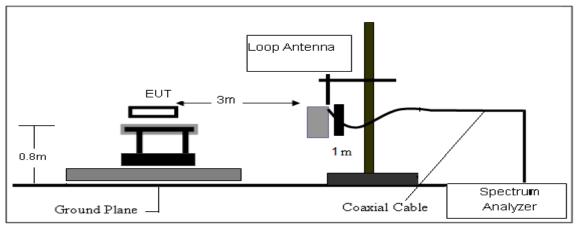
## 4.2 TEST PROCEDURE

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

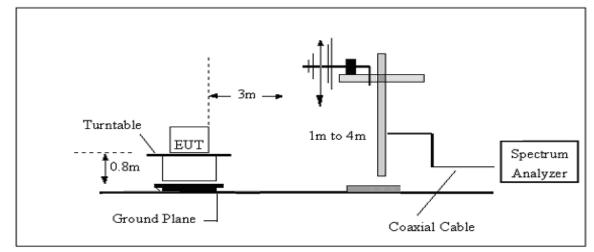
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

## 4.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

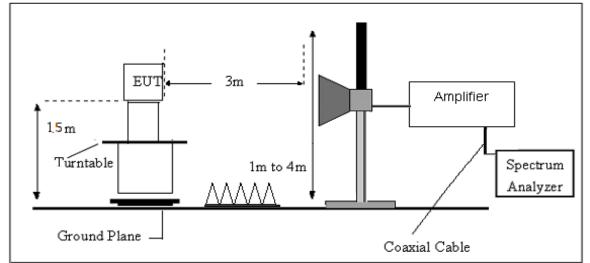


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



## 4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.

## 4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG Where FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) RA = Reading Amplitude AG = Amplifier Gain AF = Antenna Factor For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



## 4.6 TEST RESULTS

## Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

#### Note:

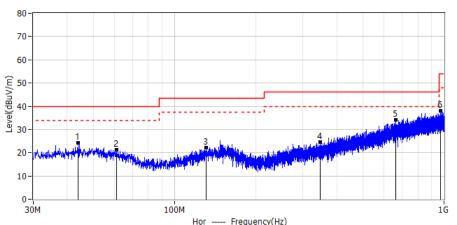
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

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

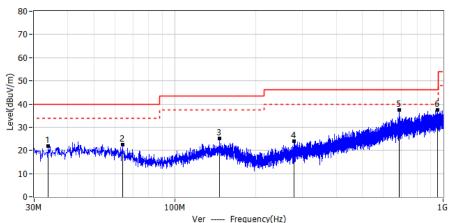


# Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT24L163	Test Engineer: LiuH
EUT: Label printer	Temperature: 22.5°C
M/N: X2	Humidity: 35%RH
Test Voltage: Battery	Test Data: 2025-01-06
Test Mode: TX BLE 2402	
Note:	



				Hoi Flequelic	y(112)			
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	43.944	3.45	20.72	24.17	40.00	-15.83	QP	Hor
-	45.544	5.45	20.72	24.17	40.00	-15.05	G	1101
2*	61.161	1.87	19.37	21.24	40.00	-18.76	QP	Hor
3*	131.365	1.72	20.51	22.23	43.50	-21.27	QP	Hor
4*	346.584	1.90	22.61	24.51	46.00	-21.49	QP	Hor
5*	661.349	4.28	29.75	34.03	46.00	-11.97	QP	Hor
6*	971.385	4.47	33.59	38.06	54.00	-15.94	QP	Hor



				vel Flequelicy	(112)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INU.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	FUIdi
1*	33.880	2.29	19.62	21.91	40.00	-18.09	QP	Ver
2*	63.950	3.62	18.96	22.58	40.00	-17.42	QP	Ver
3*	146.764	3.62	21.54	25.16	43.50	-18.34	QP	Ver
4*	277.714	3.27	20.61	23.88	46.00	-22.12	QP	Ver
5*	687.539	7.37	30.09	37.46	46.00	-8.54	QP	Ver
6*	952.955	3.74	33.79	37.53	46.00	-8.47	QP	Ver



# Results of Radiated Emissions (Above 1000MHz)

Frequency	Reading	Corrected	Result	Limits	Margin	Datastar	Dalasit
(MHz)	(dBµV)	Factor (dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector	Polarity
		L	ow Channel	(2402 MHz)		L	
3264.85	56.02	-8.45	47.57	74.00	-26.43	PK	Vertical
3264.85	46.40	-8.45	37.95	54.00	-16.05	AV	Vertical
3264.78	55.31	-8.45	46.86	74.00	-27.14	PK	Horizontal
3264.78	45.25	-8.45	36.80	54.00	-17.20	AV	Horizontal
4804.44	54.68	-6.09	48.59	74.00	-25.41	PK	Vertical
4804.44	44.78	-6.09	38.69	54.00	-15.31	AV	Vertical
4804.52	54.91	-6.09	48.82	74.00	-25.18	PK	Horizontal
4804.52	45.20	-6.09	39.11	54.00	-14.89	AV	Horizontal
5359.86	57.82	-6.68	51.14	74.00	-22.86	PK	Vertical
5359.86	47.66	-6.68	40.98	54.00	-13.02	AV	Vertical
5359.71	57.97	-6.68	51.29	74.00	-22.71	PK	Horizontal
5359.71	48.33	-6.68	41.65	54.00	-12.35	AV	Horizontal
7205.85	59.98	-8.13	51.85	74.00	-22.15	PK	Vertical
7205.85	49.79	-8.13	41.66	54.00	-12.34	AV	Vertical
7205.66	60.97	-8.13	52.84	74.00	-21.16	PK	Horizontal
7205.66	50.80	-8.13	42.67	54.00	-11.33	AV	Horizontal
		Mi	ddle Channe	el (2440 MHz)			
3264.81	55.53	-8.45	47.08	74.00	-26.92	PK	Vertical
3264.81	46.87	-8.45	38.42	54.00	-15.58	AV	Vertical
3264.73	55.90	-8.45	47.45	74.00	-26.55	PK	Horizontal
3264.73	46.59	-8.45	38.14	54.00	-15.86	AV	Horizontal
4880.29	55.50	-6.09	49.41	74.00	-24.59	PK	Vertical
4880.29	45.54	-6.09	39.45	54.00	-14.55	AV	Vertical
4880.34	54.04	-6.09	47.95	74.00	-26.05	PK	Horizontal
4880.34	45.19	-6.09	39.10	54.00	-14.90	AV	Horizontal
5359.63	57.23	-6.68	50.55	74.00	-23.45	PK	Vertical
5359.63	47.23	-6.68	40.55	54.00	-13.45	AV	Vertical
5359.62	57.47	-6.68	50.79	74.00	-23.21	PK	Horizontal
5359.62	48.15	-6.68	41.47	54.00	-12.53	AV	Horizontal
7310.88	60.40	-8.13	52.27	74.00	-21.73	PK	Vertical
7310.88	49.67	-8.13	41.54	54.00	-12.46	AV	Vertical
7310.74	59.59	-8.13	51.46	74.00	-22.54	PK	Horizontal
7310.74	49.84	-8.13	41.71	54.00	-12.29	AV	Horizontal
		H	ligh Channe	l (2480 MHz)			
3264.83	56.29	-8.45	47.84	74.00	-26.16	PK	Vertical



3264.83	46.16	-8.45	37.71	54.00	-16.29	AV	Vertical
3264.62	55.81	-8.45	47.36	74.00	-26.64	PK	Horizontal
3264.62	45.70	-8.45	37.25	54.00	-16.75	AV	Horizontal
4960.33	55.21	-6.09	49.12	74.00	-24.88	PK	Vertical
4960.33	44.88	-6.09	38.79	54.00	-15.21	AV	Vertical
4960.44	54.14	-6.09	48.05	74.00	-25.95	PK	Horizontal
4960.44	44.39	-6.09	38.30	54.00	-15.70	AV	Horizontal
5359.77	57.55	-6.68	50.87	74.00	-23.13	PK	Vertical
5359.77	47.34	-6.68	40.66	54.00	-13.34	AV	Vertical
5359.68	57.63	-6.68	50.95	74.00	-23.05	PK	Horizontal
5359.68	47.55	-6.68	40.87	54.00	-13.13	AV	Horizontal
7439.77	60.28	-8.13	52.15	74.00	-21.85	PK	Vertical
7439.77	49.85	-8.13	41.72	54.00	-12.28	AV	Vertical
7439.79	60.39	-8.13	52.26	74.00	-21.74	PK	Horizontal
7439.79	49.51	-8.13	41.38	54.00	-12.62	AV	Horizontal

## Remark:

In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.



# 4.6 TEST RESULTS (BAND EDGE REQUIREMENTS)

Frequency	Reading	Corrected	Result	Limits	Margin	Detector	Delerity			
(MHz)	(dBµV)	Factor (dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector	Polarity			
	GFSK									
2390.00	13.39	34.10	47.49	74.00	-26.51	PK	Vertical			
2390.00	0.92	34.10	35.02	54.00	-18.98	AV	Vertical			
2390.00	13.41	34.10	47.51	74.00	-26.49	PK	Horizontal			
2390.00	1.50	34.10	35.60	54.00	-18.40	AV	Horizontal			
2483.50	15.17	34.44	49.61	74.00	-24.39	PK	Vertical			
2483.50	3.10	34.44	37.54	54.00	-16.46	AV	Vertical			
2483.50	15.52	34.44	49.96	74.00	-24.04	PK	Horizontal			
2483.50	2.22	34.44	36.66	54.00	-17.34	AV	Horizontal			
Low measu	Low measurement frequencies is range from 2310 to 2404 MHz, high measurement frequencies is									
range from 2	2478 to 2500	) MHz.								



# 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

## 5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

## 5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

## For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
	Lower Band Edge: 2300 – 2407 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

5.3 TEST SETUP



The EUT which is powered by the \${ POWER BY}, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

5.5 TEST RESULTS

For the measurement records, refer to the appendix I.

Note: Not recorded emission from 9 KHz to 30 MHz as emission level at least 20dBc lower than emission limit.

Report No.: LGT24L163RF04



# 6. POWER SPECTRAL DENSITY TEST

## 6.1 LIMIT

FCC Part 15.247, Subpart C							
Section Test Item		Limit	Frequency Range (MHz)	Result			
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS			

## 6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: 100 kHz  $\ge$  RBW  $\ge$  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.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

## 6.3 TEST SETUP



# 6.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

## 6.5 TEST RESULTS

For the measurement records, refer to the appendix I.



# 7. BANDWIDTH TEST

## 7.1 LIMIT

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

## 7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.

## 7.3 TEST SETUP



# 7.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

## 7.5 TEST RESULTS

For the measurement records, refer to the appendix I.



# 8. PEAK OUTPUT POWER TEST

## 8.1 LIMIT

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

## 8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW ≥ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW  $\geq$  DTS bandwidth.
- b) Set VBW  $\geq$  [3 × RBW].
- c) Set span ≥ [3 × RBW].
- d) Sweep time = auto couple.

e) Detector = peak.

- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.

h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

a) Set the RBW = 1 MHz.

b) Set the VBW  $\geq$  [3 × RBW].

- c) Set the span  $\geq$  [1.5 × DTS bandwidth].
- d) Detector = peak.
- e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

8.3 TEST SETUP

EUT	Power
	Sensor

## 8.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

## 8.5 TEST RESULTS

For the measurement records, refer to the appendix I.



# 9. ANTENNA REQUIREMENT

## 9.1 STANDARD REQUIREMENT

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.

## 9.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.



# **APPENDIX I - TEST RESULTS**

Annex A. Output Power 1. Bluetooth Low Energy 1.1 A.1-Output Power(Test Freq:2402MHz, Test Mode:BLE 1Mbps)(NTNV)								
Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict					
2402	5.037	30	Pass					
1.2 A.1-Output Power(Test	1.2 A.1-Output Power(Test Freq:2440MHz, Test Mode:BLE 1Mbps)(NTNV)							
Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict					
2440	5.214	30	Pass					
1.3 A.1-Output Power(Test Freq:2480MHz, Test Mode:BLE 1Mbps)(NTNV)								
Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict					
2480	5.344	30	Pass					



## Annex A. 6dB Bandwidth

#### 1. Bluetooth Low Energy

1.1 A.2-6dB Bandwidth(Test Freq:2402MHz, Test Mode:BLE 1Mbps)(NTNV)





_1	.2 A.2-6dB E	Bandwidth(Test	Freq:2440MH	z, lest Mode:E	BLE 1Mbps)(N	INV)	
	Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
	2440	6	0.1	Peak	0.5	0.66748	Pass
	Keysight :     QX   RL     Center     10   dB/div     5.00	Spectrum Analyzer - Swept SA RF 50 Ω AC Freq 2.440000000 Ref Offset 6.92 dB Ref 15.00 dBm 2.440000 GHz V 100 KHz TRC SCL × 1 f (Δ)	GHz     Trig:       PNO: Wide     →       IFGain:Low     Atter       3     3       #VBW 300 k     4       925 0 GHz     4.71       667.5 kHz (Δ)     -0.1	INT REF Avg Ty Avg Ty Avg Ho Ω 2Δ3	ALIGN OFF 08:18:18 P pe: Log-Pwr Id: 1000/1000 TY D AMkr2 66 -0 J Span 3 Sweep 1.013 ms	M Jan 13, 2025 CE 12 3 4 5 6 Frequences M Jan 13, 2025 Frequences Frequen	Leco Jency Jency Juto Tune Inter Freq 10000 GHz tart Freq 10000 GHz top Freq 10000 GHz CF Step 0.000 kHz Man
	MSG				STATUS		

# 1.2 A.2-6dB Bandwidth(Test Freq:2440MHz, Test Mode:BLE 1Mbps)(NTNV)



Center Frequency (MHz)   XdB Down   RBW (MHz)   Detector   Limit (MHz)   BandWidth (MHz)   Verdict     2480   6   0.1   Peak   0.5   0.66748   Pass     Center Freq 2.480000 GHz Frequency Frequency Ref 056et 7.03.38   Int Ref PBO: Machine to an AvgHold: 1000100   These Run AvgHold: 1000100   Frequency AvgHold: 1000100   Frequency Ref 056et 7.03.38     Onter Freq 2.480000 GHz Frequency Center Freq 2.480000 GHz Frequency Frequency Ref 15.00 dBm   This: Freq Run AvgHold: 1000100   Span 3.000 MHz Sweep 1.013 ms (401 ptr) Sweep 1.013 ms (401 ptr) Freq Offset Center Freq 2.481500000 GHz Center Freq 2.481500000 GHz Center Freq 2.481500000 GHz Center Freq 2.48150000 GH	1.3 A.2-6dB E	Sandwidth(Test	Freq:2480MH	z, lest Mode:E	SLE 1Mbps)(N	INV)	
Registic Spectrum Analyzer - Swept SA     INT REF     AutoN OFF     OBE:118 PM Jan 13, 2022       Center Freq 2.480000000 GHz     PHO: Wide ++     Trig: Free Run Atten: 18 dB     Avg Type: Log:Pwr AvgIhid: 10001000     Trace IP 2 a 3 a 3 Trig: Frequency     Frequency       10 dB/div     Ref Offset 7 03 dB     0.336 dB     0.30 dB     0.30 dB     0.24800000 GHz     0.400000 GHz     0.4000000 GHz     0.400000 GHz     0.400000 GHz     0.4000000 GHz     0.400000000000000000000000000000000000	Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	BandWidth (MHz)	Verdict
Ref DO AC INT REF Avg Type: Log-PW Description of the component of the compon	2480	6	0.1	Peak	0.5	0.66748	Pass
	Keysight       Center       Center       5.00       -5.00       -5.00       -55.0       -56.0       -57.0       -57.0       -57.0       -57.0       -57.0       -57.0       -57.0       -57.0       -57.0       -57	Spectrum Analyzer - Swept SA RF 50 Ω AC Freq 2.480000000 Ref Offset 7.03 dB Ref 15.00 dBm 2.480000 GHz W 100 kHz TRC SCL X 1 f (Δ)	GHz     Trig:       PNO: Wide     →       IFGain:Low     Attended       X3     ✓       #VBW 300 k     ✓       917 5 GHz     4.931       667.5 kHz     (Δ)	INT REF Avg Ty Free Run Avg Ho 1 2 2 4 3 1 2 4 3 1 2 4 3 1 4 4 5 1 4 5 1 4 5 1 4 5	ALIGN OFF 08:21:18 P pe: Log-Pwr Id: 1000/1000 TY AMkr2 66 0 0 0 0 0 0 0 0 0 0 0 0 0	M Jan 13, 2025 EF 012 3 4 5 6 Frequence M Jan 13, 2025 Frequence Frequence Frequence Frequence Frequence Frequence Frequence Frequence Auto Source Sourc	uency uto Tune hter Freq 0000 GHz tart Freq 0000 GHz top Freq 0000 GHz CF Step 0.000 kHz Man
	MSG				STATUS	· · ·	

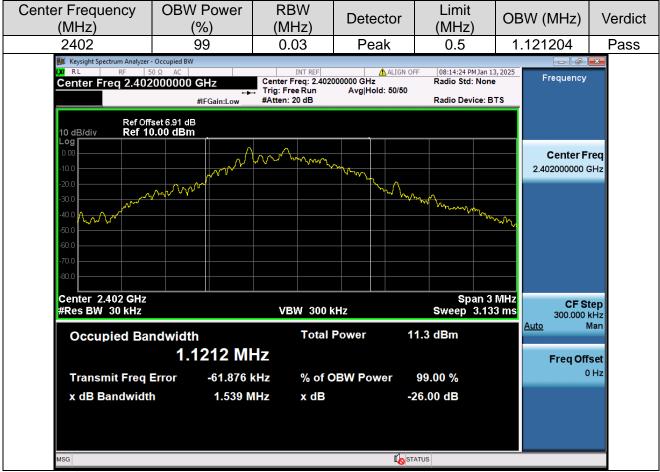
# 1.3 A.2-6dB Bandwidth(Test Freq:2480MHz, Test Mode:BLE 1Mbps)(NTNV)



## Annex A. 99% Bandwidth

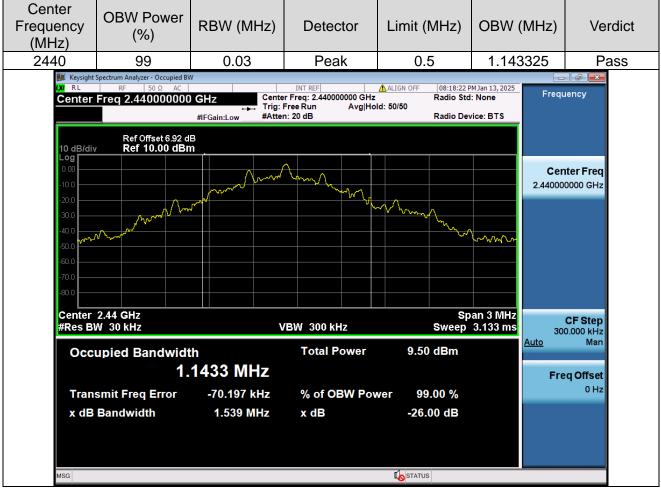
#### 1. Bluetooth Low Energy

1.1 A.2.2-99% Bandwidth(Test Freq:2402MHz, Test Mode:BLE 1Mbps)(NTNV)



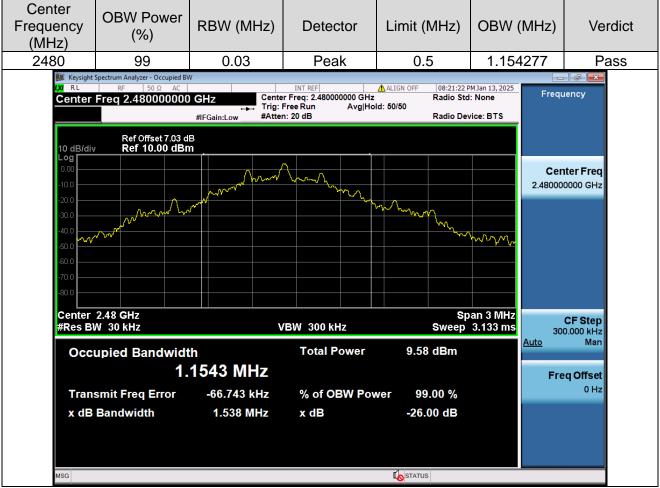


1.2 A.2.2-99% Bandwi	Ith(Test Freq:2440M	Hz, Test Mode:B	BLE 1Mbps)(	NTNV)





1.3 A.2.2-99% Bandwidth(	Test Freq:2480MH	Iz, Test Mode	BLE 1Mbps)(	NTNV)





### Annex A. Conducted Spurious Emissions

# 1. Bluetooth Low Energy







J Keysight Spectrum Analyzer - Swept SA	000050							
Marker 2 4.001000000000	GHz	ALIGN Avg Type: Log- un Avg Hold:>1/1	-Pwr TRACE 1 2 3 4 5 6	Peak Search				
	PNO: Fast Trig: Free R IFGain:Low #Atten: 30 d	B	TYPE NNNNN DET PNNNNN Mkr2 4.001 00 GHz	NextPeak				
10 dB/div Ref 20.00 dBm	Nextreak							
10.0				Next Pk Right				
-10.0			-15.39 dBm					
				Next Pk Left				
-40.0			and and the second descent and a second					
-50.0				Marker Delta				
-70.0								
Start 2.00 GHz #Res BW 100 kHz								
MKR MODE TRC SCL X	01 75 GHz -32.596 dBm	FUNCTION FUNCTION	WIDTH FUNCTION VALUE					
	01 00 GHz -34.107 dBm			Mkr→RefLvl				
4 5 6			E					
7 8 9				More				
			-	1 of 2				
MSG			STATUS					



#### 1.2 A.3-Conducted Spurious Emissions(Test Freq:2440MHz, Test Mode:BLE 1Mbps)(NTNV)





Keysight Spectrum Analyzer - Swept SA				
X RL RF 50 Ω AC Marker 2 4.064250000000	CORREC INT F GHZ PNO: Fast C Trig: Free Ru	Avg Type: Log-Pwr	08:20:08 PM Jan 13, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Peak Search
	IFGain:Low #Atten: 30 dE	3	DET P NNNNN 2 4.064 25 GHz	NextPeak
10 dB/div Ref 20.00 dBm	Heatr car			
10.0				Next Pk Right
0.00				Next PK Right
-10.0			-15.30 dBm	
-30.0 <b>1 2</b>				Next Pk Leff
-40.0		المرجعة	a Baraphan Managaran Angelan Barapan	
-50.0				Marker Delta
-70.0				
Start 2.00 GHz		I	Stop 25.00 GHz	
#Res BW 100 kHz	#VBW 300 kHz	FUNCTION FUNCTION WIDTH	2.198 s (4001 pts)	Mkr→CF
1 N 1 f 3.25	i3 50 GHz -35.960 dBm i4 25 GHz -35.466 dBm			
				Mkr→RefLv
5 <u>6</u>			E	
8				More
10				1 of 2
∢ [	III	[] STATU	•	
		No state		



#### 1.3 A.3-Conducted Spurious Emissions(Test Freq:2480MHz, Test Mode:BLE 1Mbps)(NTNV)





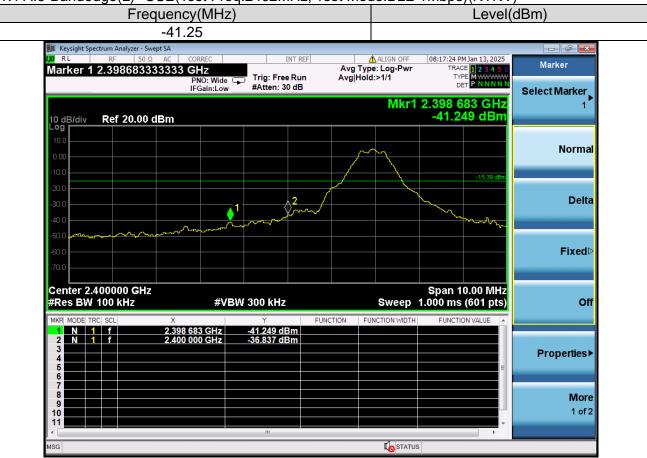
	00-22-16 PM Inc. 12, 2025			THE	CORREC	nalyzer - Swept SA		📜 Keysigh 🗶 RL	
Peak Search	08:22:16 PM Jan 13, 2025 TRACE 1 2 3 4 5 6 TYPE M	ALIGN OFF ce: Log-Pwr d:>1/1	Avg	Trig: Free Ru	PNO: Fast	50 Ω AC 3250000000	r 2 4.13		
Next Peak	IFGain:Low     #Atten: 30 dB     Det P NNNN       Mkr2 4.133 25 GHz     -37.971 dBm								
Next Pk Righ									
Next Pk Lef	-15.33 dBm						^1 • <sup>2</sup>	-20.0	
Marker Delt				And the second	and the second	a and the second se	No.41	-50.0	
Mkr→Ci	tart 2.00 GHz     Stop 25.00 GHz       Res BW 100 kHz     #VBW 300 kHz     Sweep     2.198 s (4001 pts)       KRI MODEL TRCI SCLI     X     Y     FUNCTION VIDTH     FUNCTION VIDTH <t< td=""><td>#Res E</td></t<>							#Res E	
Mkr→RefLv	E			<u>-38.159 dBm</u> _37.971 dBm	15 25 GHz 13 25 GHz			1 N 2 N 3 4 5 6	
Mon 1 of:				m				7 8 9 10 11	
sg							<mark>MSG</mark>		



### Annex A. Bandedge(L)--CSE

# 1. Bluetooth Low Energy

1.1 A.6-Bandedge(L)--CSE(Test Freq:2402MHz, Test Mode:BLE 1Mbps)(NTNV)

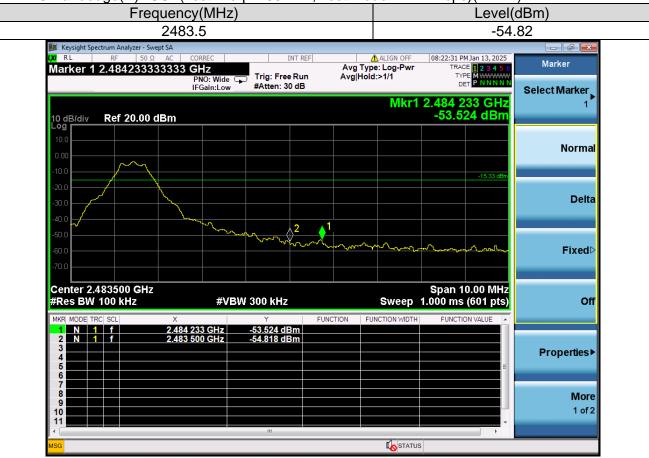




### Annex A. Bandedge(H)--CSE

# 1. Bluetooth Low Energy

1.1 A.6-Bandedge(H)--CSE(Test Freq:2480MHz, Test Mode:BLE 1Mbps)(NTNV)





# Annex A. Power Spectral Density (PSD)

### 1. Bluetooth Low Energy

1.1 A.7-Power Spectral Density (PSD)(Test Freq:2402MHz, Test Mode:BLE 1Mbps)(NTNV)





# 1.2 A.7-Power Spectral Density (PSD)(Test Freq:2440MHz, Test Mode:BLE 1Mbps)(NTNV)





# 1.3 A.7-Power Spectral Density (PSD)(Test Freq:2480MHz, Test Mode:BLE 1Mbps)(NTNV)





Annex A. Duty Cycle 1. Bluetooth Low Energy 1.1 Duty Cycle(Test Freq:2402MHz, Test Mode:BLE 1Mbps)(NTNV)

Center Frequency(MHz)	RBW (MHz)	Detector	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Verdict
2402	8	Peak	100.00	0.00	0.01	Pass
M Keysight Spectrum Analyzer - Swe	AC PN		F ALIC	SN OFF 08 Avg Type: Log-Pwr	31:12 PM Jan 13, 2025 TRACE 1 2 3 4 5 0 TYPE WWWWW DET P NNNN	5 7
Ref Offset 6.9       10 dB/div     Ref 15.00 d       5.00     -       -5.00     -       -16.0     -       -35.0     -       -46.0     -       -55.0     -       -65.0     -	1 dB  Bm 			Mk	r1 50.00 ms 4.69 dBm	
-75.0 Center 2.402000000 G Res BW 8 MHz		#VBW 50		-	Span 0 Hz ms (1000 pts)	-
MKR MODE TRC SCL 1 N 1 t 2 3 4 5 5 6 6 7 7 8 9 9 10 11 4 1 4 1 5 1 6 1 7 1 8 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X 50.00 ms	ץ 4.69 dBm	III	N WIDTH FUNCTION VA		



# **APPENDIX II - MEASUREMENT PHOTOS**

Note: Please see the attached  $\mathsf{RF}\_\mathsf{Test}$  Setup photos for FCC ID.

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