

# **RF TEST REPORT**

Product Name: Smart Thermostat

Model Name: TL04-1

FCC ID: 2ADQOMDNA26

IC: 12575A-MDNA26

Issued For : GD Midea Air-conditioning Equipment Co.,Ltd.

Lingang Road, Beijiao, Shunde, FOSHAN, Guangdong 528311, 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:	LGT24H150RF01
Sample Received Date:	Sep. 05, 2024
Date of Test:	Sep. 05, 2024 ~ Oct. 24, 2024
Date of Issue:	Oct. 24, 2024

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### **TEST REPORT CERTIFICATION**

Applicant: GD Midea Air-conditioning Equipment Co.,Ltd.	
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Address: Lingang Road, Beijiao, Shunde, FOSHAN, Guangdong 528311, China

Manufacturer: GD Midea Air-conditioning Equipment Co.,Ltd.

Address: Lingang Road, Beijiao, Shunde, FOSHAN, Guangdong 528311, China

Product Name: Smart Thermostat

Trademark: N/A

Model Name: TL04-1

- Sample Status: Normal
- Serial Number: LGT2409183-1

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
FCC Part 15.247, Subpart C				
RSS-247 Issue 3, August 2023	PASS			
RSS-Gen Issue 5, February 2021	FASS			
ANSI C63.10-2013				

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Zane Shan Engineer

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### **Revision History**

Rev.	Issue Date	Contents
00	Oct. 24, 2024	Initial Issue



#### 1. SUMMARY OF TEST RESULTS

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

FCC Part 15.247, Subpart C RSS-247 Issue 3					
Standard Section	Judgment	Remark			
15.207 RSS-Gen 8.8	Conducted Emission	PASS			
15.247 (a)(2) RSS-Gen 6.7 RSS-247 5.2 (a)	6dB&99% Bandwidth	PASS			
15.247 (b)(3) RSS-247 5.4 (d)	Output Power	PASS			
15.209 RSS-Gen 8.9/8.10	Radiated Spurious Emission	PASS			
15.247 (d) RSS-Gen 8.9/8.10	Conducted Spurious & Band Edge Emission	PASS			
15.247 (e) RSS-247 5.2 (b)	Power Spectral Density	PASS			
15.205 RSS-Gen 8.9/8.10	Restricted Band Edge Emission	PASS			
Part 15.247(d)/ Part 15.209(a) RSS-247 5.5 RSS-Gen 8.9/8.10	Band Edge Emission	PASS			
15.203 RSS-Gen 6.8	Antenna Requirement	PASS			
RSS-Gen 6.11/8.11	Frequency Stability	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 Renmin West Road, Jinsha, Kengzi Street, Pingshan Distri 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:	Smart Thermostat			
Trademark:	N/A			
Model Name:	TL04-1			
Series Model:	N/A			
Model Difference:	N/A			
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	GFSK		
	Radio Technology:	BLE		
Product Description:	Bluetooth Configuration:	BLE (1M PHY)		
	Number Of Channel:	40		
	Antenna Type:	FPC Antenna		
	Antenna Gain (dBi):	0.14		
Channel List:	Please refer to the Note 3.			
Rating:	Input AC24V/60Hz or DC20V			
Test Voltage:	AC 120V/60Hz for Air conditioner interior panel			
Hardware Version:	V4.3			
Software Version:	1.1.38			
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.



3.								
	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			
CMD Command	Mode Or Modulation type Power setting			
	1M	Default		



#### 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		S/N	Remark	
	GD Midea	US1-KFR71VBP3			
Air conditioner	Air-conditioning	N1X-C-W.ZY001.	N/A	FCC Sdoc	
interior panel	Equipment Co.,Ltd	JD.T.NK.NP2.1			
Air conditioner power board	GD Midea Air-conditioning Equipment Co.,Ltd	EU-KFR140T2/BP 3N1X-J(RD0)-W( GA).ZY001.JD.T. NK.NP2-1	17123000010 880	FCC Sdoc	

#### Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	HKF-16	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in  $\[\]$ Length $\]$  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
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

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.

	Conducted Emission limit (dBuV)			
FREQUENCY (MHz)	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

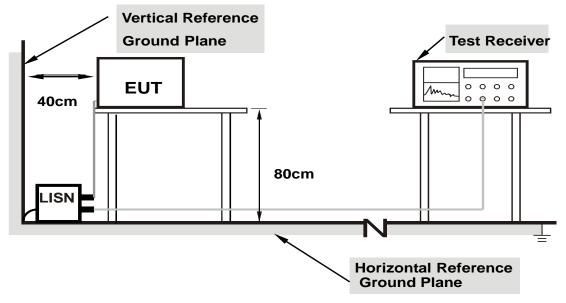
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



#### 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.

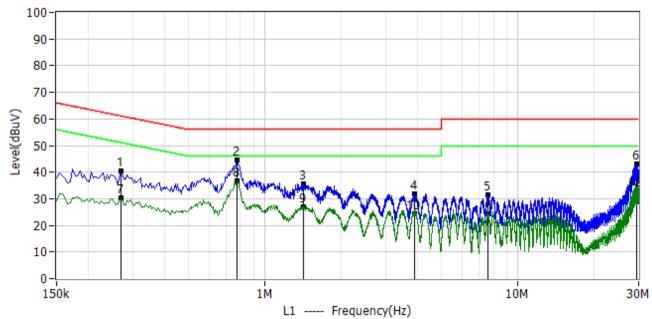
#### 3.4 EUT OPERATING CONDITIONS

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

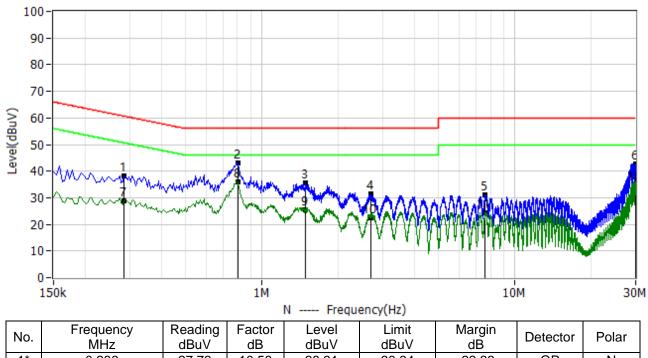
Project: LGT24H150	Test Engineer: LiuH
EUT: Smart Thermostat	Temperature: 24.8°C
M/N: TL04-1	Humidity: 44%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-10-22
Test Mode: TX BLE 2402	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.270	29.82	10.59	40.41	61.12	-20.71	QP	L1
2*	0.774	34.13	10.60	44.73	56.00	-11.27	QP	L1
3*	1.422	24.87	10.82	35.69	56.00	-20.31	QP	L1
4*	3.914	20.63	11.14	31.77	56.00	-24.23	QP	L1
5*	7.594	20.34	11.00	31.34	60.00	-28.66	QP	L1
6*	29.378	31.11	11.94	43.05	60.00	-16.95	QP	L1
7*	0.270	19.61	10.59	30.20	51.10	-20.90	AV	L1
8*	0.774	26.20	10.60	36.80	46.00	-9.20	AV	L1
9*	1.422	15.98	10.82	26.80	46.00	-19.20	AV	L1
10*	3.914	13.06	11.14	24.20	46.00	-21.80	AV	L1
11*	7.594	13.30	11.00	24.30	50.00	-25.70	AV	L1
12*	29.378	20.86	11.94	32.80	50.00	-17.20	AV	L1



Project: LGT24H150	Test Engineer: LiuH
EUT: Smart Thermostat	Temperature: 24.8°C
M/N: TL04-1	Humidity: 44%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-10-22
Test Mode: TX BLE 2402	
Note:	



No.	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Polar
1*	0.286	27.73	10.58	38.31	60.64	-22.33	QP	N
2*	0.802	32.66	10.56	43.22	56.00	-12.78	QP	Ν
3*	1.486	25.09	10.65	35.74	56.00	-20.26	QP	Ν
4*	2.698	20.72	10.78	31.50	56.00	-24.50	QP	Ν
5*	7.638	20.40	10.85	31.25	60.00	-28.75	QP	Ν
6*	29.934	30.95	11.91	42.86	60.00	-17.14	QP	Ν
7*	0.286	18.12	10.58	28.70	50.60	-21.90	AV	Ν
8*	0.802	25.44	10.56	36.00	46.00	-10.00	AV	Ν
9*	1.486	14.85	10.65	25.50	46.00	-20.50	AV	Ν
10*	2.698	11.82	10.78	22.60	46.00	-23.40	AV	Ν
11*	7.638	13.45	10.85	24.30	50.00	-25.70	AV	Ν
12*	29.934	23.09	11.91	35.00	50.00	-15.00	AV	Ν



#### 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), RSS-Gen and RSS-247 (5.5) 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	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	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	120 KHz / 300 KHz
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
Start/Stan Fraguanay	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



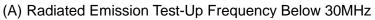
#### 4.2 TEST PROCEDURE

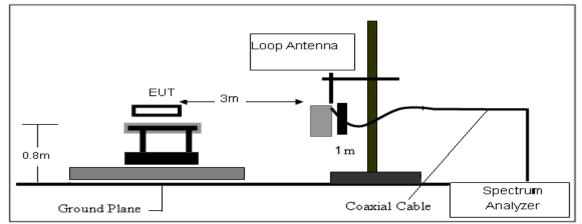
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the 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.

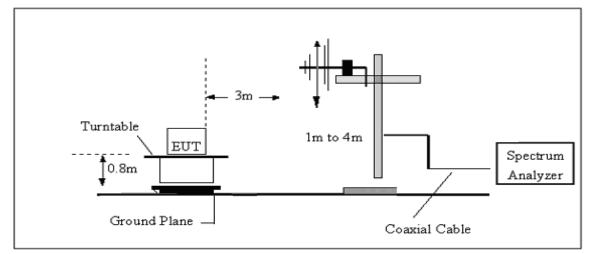


#### 4.3 TEST SETUP

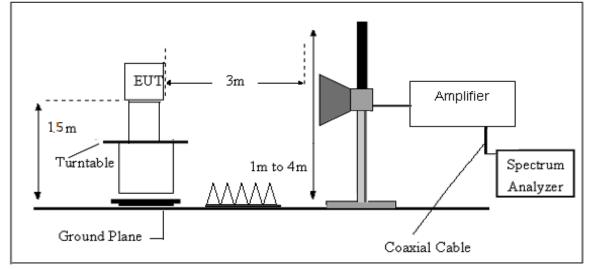




#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(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:

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.

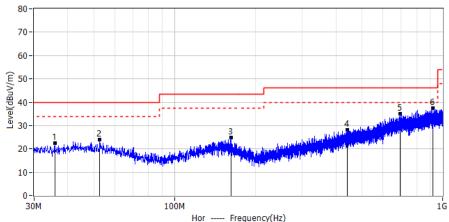
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

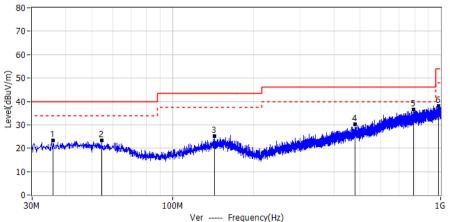


#### Results of Radiated Emissions (30MHz~1000MHz) Note:1. All mode has been tested, only shown the worst case data.

Project: LGT24H150	Test Engineer: LiuH
EUT: Smart Thermostat	Temperature: 24.8°C
M/N: TL04-1	Humidity: 44%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-10-22
Test Mode: TX BLE 2402	
Note:	



				nor rrequerie	(			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	Polai
1*	35.820	2.76	19.84	22.60	40.00	-17.40	QP	Hor
2*	52.674	3.33	20.58	23.91	40.00	-16.09	QP	Hor
3*	162.526	3.60	21.20	24.80	43.50	-18.70	QP	Hor
4*	442.008	2.25	25.79	28.04	46.00	-17.96	QP	Hor
5*	693.844	4.79	30.24	35.03	46.00	-10.97	QP	Hor
6*	919.126	4.23	33.28	37.51	46.00	-8.49	QP	Hor

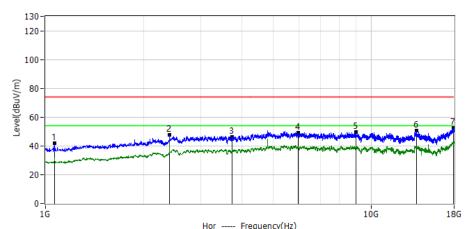


				ver Frequency	(112)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	FUIdi
1*	35.941	3.54	19.91	23.45	40.00	-16.55	QP	Ver
2*	54.493	3.20	20.20	23.40	40.00	-16.60	QP	Ver
3*	143.126	3.68	21.35	25.03	43.50	-18.47	QP	Ver
4*	478.746	3.83	26.49	30.32	46.00	-15.68	QP	Ver
5*	794.481	4.58	31.83	36.41	46.00	-9.59	QP	Ver
6*	980.115	4.31	33.87	38.18	54.00	-15.82	QP	Ver

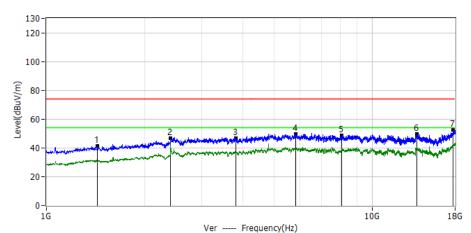


### Results of Radiated Emissions (Above 1000MHz)

Project: LGT24H150	Test Engineer: LiuH	
EUT: Smart Thermostat	Temperature: 25.6°C	
M/N: TL04-1	Humidity: 52%RH	
Test Voltage: AC 120V/60Hz	Test Data: 2024-09-23	
Test Mode: BLE 2402		
Note:		



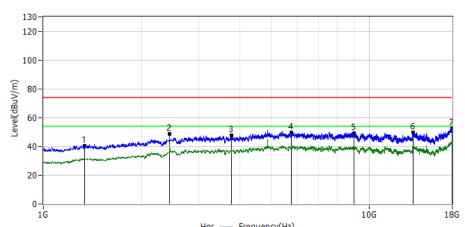
				Hol Flequenc	y(112)			
No.	Frequency MHz	Reading	Factor	Level	Limit	Margin	Detector	Polar
		dBuV	dB/m	dBuV/m	dBuV/m	dB		
1*	1063.7000	66.06	-24.42	41.64	74.00	-32.36	PK	Hor
2*	2402.5000	59.16	-11.67	47.49	74.00	-26.51	PK	Hor
3*	3749.7000	53.87	-7.45	46.42	74.00	-27.58	PK	Hor
4*	5976.7000	56.63	-7.36	49.27	74.00	-24.73	PK	Hor
5*	9009.1000	57.71	-8.09	49.62	74.00	-24.38	PK	Hor
6*	13796.7000	53.88	-3.41	50.47	74.00	-23.53	PK	Hor
7*	17872.5000	55.35	-2.66	52.69	74.00	-21.31	PK	Hor



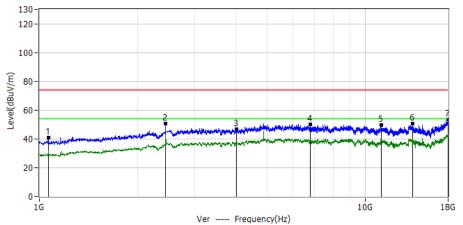
				ver frequenc	.,((12)			
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1435.6000	62.63	-21.20	41.43	74.00	-32.57	PK	Ver
2*	2402.5000	58.61	-11.67	46.94	74.00	-27.06	PK	Ver
3*	3809.2000	54.12	-7.31	46.81	74.00	-27.19	PK	Ver
4*	5832.2000	56.65	-7.21	49.44	74.00	-24.56	PK	Ver
5*	8082.6000	58.45	-9.55	48.90	74.00	-25.10	PK	Ver
6*	13735.1000	53.23	-3.57	49.66	74.00	-24.34	PK	Ver
7*	17734.4000	55.22	-2.76	52.46	74.00	-21.54	PK	Ver



Project: LGT24H150	Test Engineer: LiuH
EUT: Smart Thermostat	Temperature: 25.6°C
M/N: TL04-1	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-09-23
Test Mode: BLE 2440	
Note:	



				Hor Frequenc	y(HZ)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	Folai
1*	1335.7000	62.58	-21.96	40.62	74.00	-33.38	PK	Hor
2*	2440.7000	60.05	-11.28	48.77	74.00	-25.23	PK	Hor
3*	3773.1000	55.03	-7.40	47.63	74.00	-26.37	PK	Hor
4*	5783.4000	56.83	-7.17	49.66	74.00	-24.34	PK	Hor
5*	8983.6000	57.54	-8.13	49.41	74.00	-24.59	PK	Hor
6*	13652.2000	53.66	-3.77	49.89	74.00	-24.11	PK	Hor
7*	17980.9000	55.38	-2.58	52.80	74.00	-21.20	PK	Hor

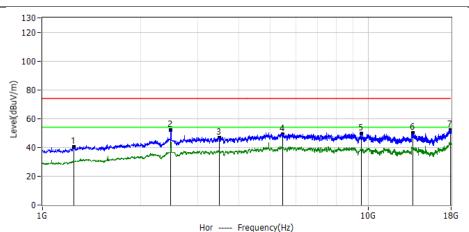


				ver frequenc	7(112)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
NO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	FUIdi
1*	1063.7000	65.37	-24.42	40.95	74.00	-33.05	PK	Ver
2*	2440.7000	61.70	-11.28	50.42	74.00	-23.58	PK	Ver
3*	4026.0000	53.74	-6.82	46.92	74.00	-27.08	PK	Ver
4*	6777.9000	57.96	-7.92	50.04	74.00	-23.96	PK	Ver
5*	11206.4000	56.17	-6.42	49.75	74.00	-24.25	PK	Ver
6*	13992.2000	53.36	-2.92	50.44	74.00	-23.56	PK	Ver
7*	17987.2000	56.01	-2.58	53.43	74.00	-20.57	PK	Ver

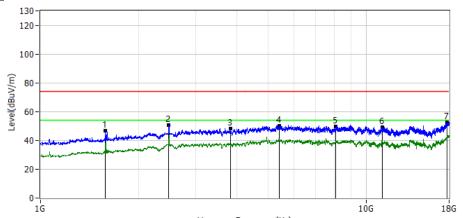


Project: LGT24H150	Test Engineer: LiuH	
EUT: Smart Thermostat	Temperature: 25.6°C	
M/N: TL04-1	Humidity: 52%RH	
Test Voltage: AC 120V/60Hz	Test Data: 2024-09-23	
Test Mode: BLE 2480		
N Le Ce		

Note:



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1248.6000	63.21	-22.71	40.50	74.00	-33.50	PK	Hor
2*	2479.0000	62.96	-10.89	52.07	74.00	-21.93	PK	Hor
3*	3499.0000	54.70	-8.06	46.64	74.00	-27.36	PK	Hor
4*	5475.2000	56.01	-6.84	49.17	74.00	-24.83	PK	Hor
5*	9523.4000	56.88	-7.28	49.60	74.00	-24.40	PK	Hor
6*	13735.1000	53.63	-3.57	50.06	74.00	-23.94	PK	Hor
7*	17908.6000	54.94	-2.63	52.31	74.00	-21.69	PK	Hor



Ver ----- Frequency(Hz) Frequency Reading Factor Level Limit Margin No. Detector Polar dBuV/m MHz dBuV dB/m dBuV/m dB 1\* 1584.4000 67.12 -20.18 46.94 74.00 -27.06 ΡK Ver 2\* 2479.0000 61.50 74.00 ΡK -10.89 50.61 -23.39 Ver 3\* 3830.5000 55.36 -7.26 48.10 74.00 -25.90 ΡK Ver 5424.2000 -6.75 50.30 74.00 ΡK 4\* 57.05 -23.70 Ver 5\* 8082.6000 59.35 -9.55 49.80 74.00 -24.20 ΡK Ver 11202.1000 6\* 55.81 -6.42 49.39 74.00 -24.61 ΡK Ver 7\* 17730.1000 -2.76 -21.40 ΡK 55.36 52.60 74.00 Ver

Remark:

1.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.

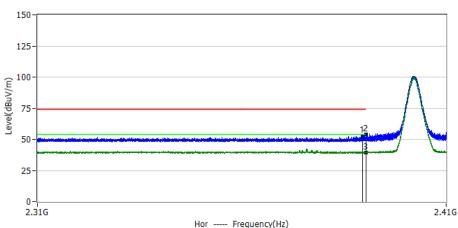
2. Average measurement was not performed if peak level lower than average limit. No any other emissions level which are attenuated less than 20dB below the limit. The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.



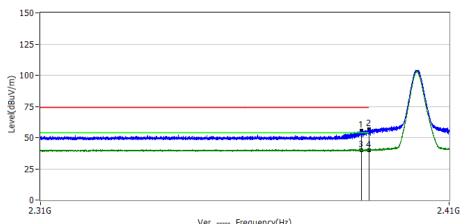
# 4.7 TEST RESULTS (BAND EDGE REQUIREMENTS) Note:1. All mode has been tested, only shown the worst case data,

2. The peak value is less than the AV limit, so no AV data is displayed.

Project: LGT24H150	Test Engineer: LiuH	
EUT: Smart Thermostat	Temperature: 25.6°C	
M/N: TL04-1	Humidity: 52%RH	
Test Voltage: AC 120V/60Hz	Test Data: 2024-09-23	
Test Mode: BLE 2402		
Note:		



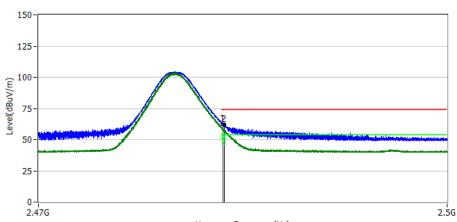
				nor frequenc	y(112)			
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2389.2000	18.54	34.10	52.64	74.00	-21.36	PK	Hor
2*	2390.0000	20.02	34.10	54.12	74.00	-19.88	PK	Hor
3*	2390.0000	5.40	34.10	39.50	54.00	-14.50	AV	Hor



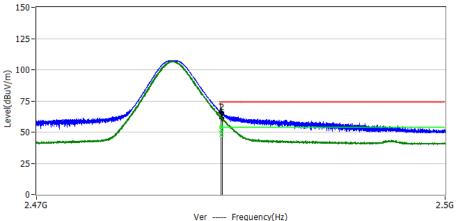
Ver Frequency(Hz)								
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
140.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	i olai
1*	2388.1000	21.68	34.10	55.78	74.00	-18.22	PK	Ver
2*	2390.0000	22.41	34.10	56.51	74.00	-17.49	PK	Ver
3*	2388.1000	5.90	34.10	40.00	54.00	-14.00	AV	Ver
4*	2390.0000	5.70	34.10	39.80	54.00	-14.20	AV	Ver



Project: LGT24H150	Test Engineer: LiuH
EUT: Smart Thermostat	Temperature: 25.6°C
M/N: TL04-1	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-09-23
Test Mode: BLE 2480	
Note:	



Hor Frequency(Hz)							
Frequency	Reading	Factor	Level	Limit	Margin	Dotostor	Polar
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	Polal
2483.5000	27.66	34.44	62.10	74.00	-11.90	PK	Hor
2483.6000	27.35	34.44	61.79	74.00	-12.21	PK	Hor
2483.5000	12.83	34.40	47.23	54.00	-6.77	AV	Hor
2483.6000	12.82	34.40	47.22	54.00	-6.78	AV	Hor
	MHz 2483.5000 2483.6000 2483.5000	MHz dBuV   2483.5000 27.66   2483.6000 27.35   2483.5000 12.83	Frequency MHzReading dBuVFactor dB/m2483.500027.6634.442483.600027.3534.442483.500012.8334.40	Frequency MHzReading dBuVFactor dB/mLevel dBuV/m2483.500027.6634.4462.102483.600027.3534.4461.792483.500012.8334.4047.23	Frequency MHzReading dBuVFactor dB/mLevel dBuV/mLimit dBuV/m2483.500027.6634.4462.1074.002483.600027.3534.4461.7974.002483.500012.8334.4047.2354.00	Frequency MHz Reading dBuV Factor dB/m Level dBuV/m Limit dBuV/m Margin dB   2483.5000 27.66 34.44 62.10 74.00 -11.90   2483.6000 27.35 34.44 61.79 74.00 -12.21   2483.5000 12.83 34.40 47.23 54.00 -6.77	MHz dBuV dB/m dBuV/m dBuV/m dB Detector   2483.5000 27.66 34.44 62.10 74.00 -11.90 PK   2483.6000 27.35 34.44 61.79 74.00 -12.21 PK   2483.5000 12.83 34.40 47.23 54.00 -6.77 AV



					ter riedaene	10.00			
	No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
ĺ	1*	2483.5000	31.16	34.44	65.60	74.00	-8.40	PK	Ver
	2*	2483.6000	30.74	34.44	65.18	74.00	-8.82	PK	Ver
	3	2483.5000	13.17	34.40	47.57	54.00	-6.43	AV	Ver
	5	2483.6000	13.15	34.40	47.55	54.00	-6.45	AV	Ver

#### Note:

Average measurement was not performed if peak level lower than average limit. No any other emissions level which are attenuated less than 20dB below the limit. The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.



#### 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

#### 5.1 LIMIT

According to FCC section 15.247(d)&RSS-247, 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.

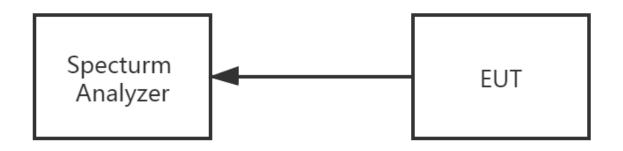
#### 5.2 TEST PROCEDURE

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 battery, 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) = 10C 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



#### 6. POWER SPECTRAL DENSITY TEST

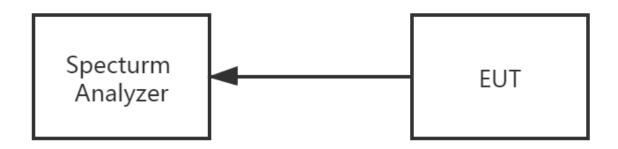
#### 6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e) RSS-247	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



#### 7. BANDWIDTH TEST

#### 7.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz	2400-2483.5	PASS
RSS-247 5.2 (a)	Danuwiuln	(6dB bandwidth)	2400-2403.0	FA33
RSS-Gen	99%	For reporting	2400-2483.5	PASS
Clause 6.7	Bandwidth	purposes only.	2400-2463.5	PASS

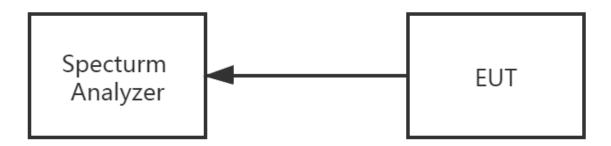
#### 7.2 TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency The centre frequency of the channel under test	
Detector	Peak
RBW	For 6 dB Bandwidth :100KHz For 99% Bandwidth :1% to 5% of the occupied bandwidth
VBW	For 6dB Bandwidth : ≥3 × RBW For 99% Bandwidth : approximately 3×RBW
Trace	Max hold
Sweep	Auto

Allow the trace to stabilize and 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 and 99% relative to the maximum level measured in the fundamental emission.

#### 7.3 TEST SETUP



#### 7.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

#### 7.5 TEST RESULTS



#### 8. PEAK OUTPUT POWER TEST

#### 8.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) RSS-247	Output Power	1 watt or 30dBm	2400-2483.5	PASS
RSS-247	EIRP	4W	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  $\geq$  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  $\geq$  [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



#### 9. ANTENNA REQUIREMENT

#### 9.1 STANDARD REQUIREMENT

15.203&RSS Gen requirement: For intentional device, according to 15.203&RSS Gen: 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 FPC Antenna. It comply with the standard requirement.



#### 10. FREQUENCY STABILITY

#### 10.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within +/-0.02% of the operating frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage and for a variation in primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees.

#### 10.2 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.

- 2. Turn the EUT on and couple its output to spectrum analyzer.
- 3. Turn the EUT off and set the chamber to the highest temperature specified.
- 4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2,5 and 10 minutes.
- 5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- 6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

#### 10.3 TEST RESULT



### **APPENDIX I - TEST RESULTS**

Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	5.58	30	Pass
NVNT	BLE 1M	2440	Ant1	7.04	30	Pass
NVNT	BLE 1M	2480	Ant1	8.24	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	ANT GAIN (dBi)	EIRP (dBm)	EIRP LIMIT(dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	5.58	0.14	5.72	36.02	Pass
NVNT	BLE 1M	2441	Ant1	7.04	0.14	7.18	36.02	Pass
NVNT	BLE 1M	2480	Ant1	8.24	0.14	8.38	36.02	Pass



#### -6dB Bandwidth

С	Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
	NVNT	BLE 1M	2402	Ant1	0.673	0.5	Pass
	NVNT	BLE 1M	2440	Ant1	0.691	0.5	Pass
	NVNT	BLE 1M	2480	Ant1	0.698	0.5	Pass







## Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.027
NVNT	BLE 1M	2440	Ant1	1.03
NVNT	BLE 1M	2480	Ant1	1.035



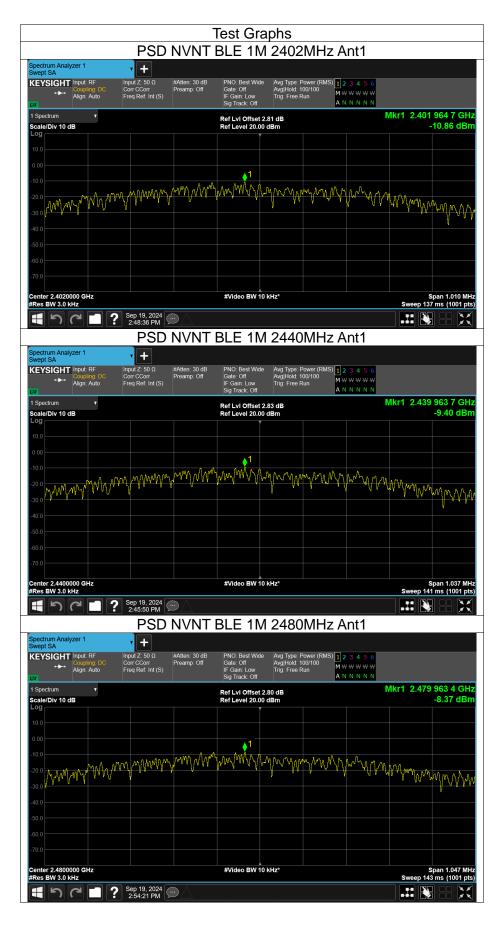




## Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-10.86	8	Pass
NVNT	BLE 1M	2440	Ant1	-9.4	8	Pass
NVNT	BLE 1M	2480	Ant1	-8.37	8	Pass



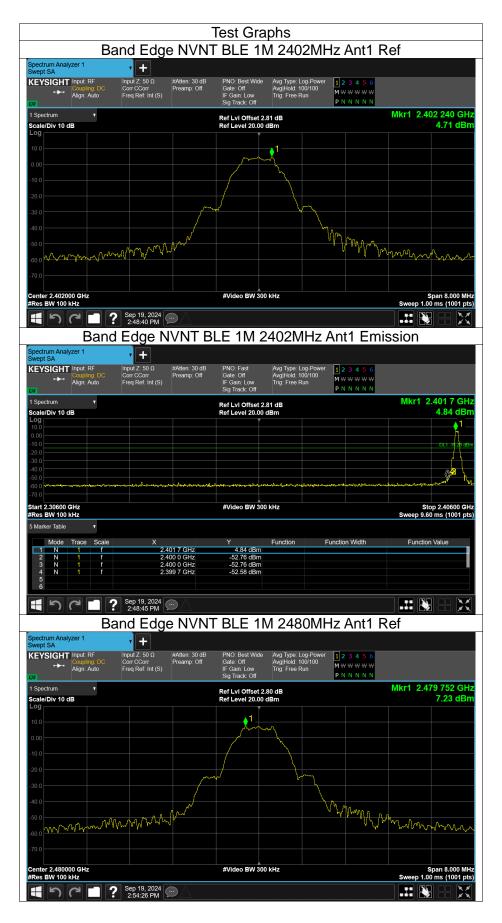




Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-57.28	-20	Pass
NVNT	BLE 1M	2480	Ant1	-61.23	-20	Pass







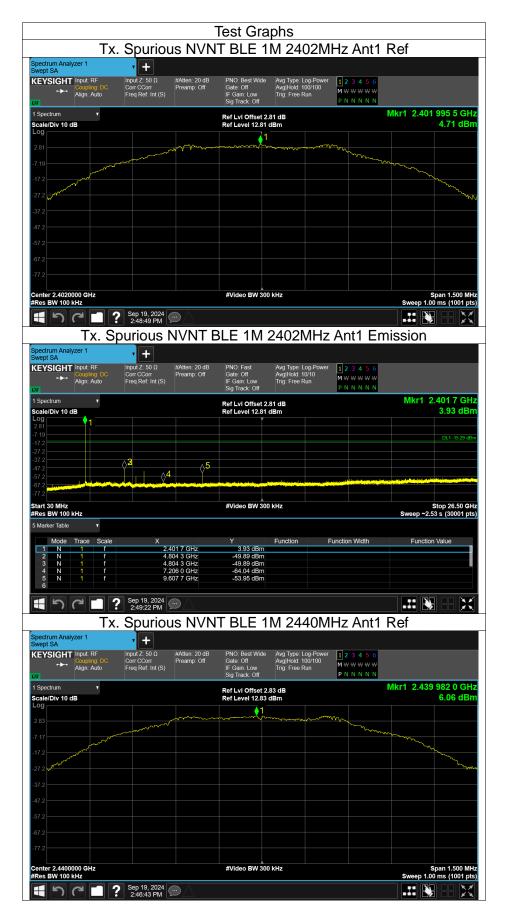
	nput: RF Coupling: DC	Input Z: 50 Q					
N/	lign: Auto	Input 2: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log- Avg Hold: 100/ Trig: Free Run	100	₩
Spectrum cale/Div 10 dB	•			Ref LvI Offset 2 Ref Level 20.00			Mkr1 2.480 2 GH 7.48 dBr
.og 10.0 0.00 10.0							DL1-12.77 dB
20.0	2						
60.0 70.0	han han had a start of the second	and any contraction of the second	ىيىدەرىيەر مەرەپىيەر قامىرىيەر يەرەپ	whan whether a second secon	adur-homentatinturand	hung generation of the states	ng-ag-Age anger-menonen annen der seinen son anderen son anderen son anderen son anderen son anderen son andere
tart 2.47600 GH Res BW 100 kH				#Video BW 300	) kHz		Stop 2.57600 GH Sweep 9.60 ms (1001 pt
Marker Table	•						
Mode T	race Scale	Х		Y	Function	Function Width	Function Value
1 N	1 f		180 2 GHz	7.48 dBm			
2 N 3 N			183 5 GHz 500 0 GHz	-53.99 dBm -58.75 dBm			
3 N 4 N 5 6	1 f		183 5 GHz	-53.99 dBm			



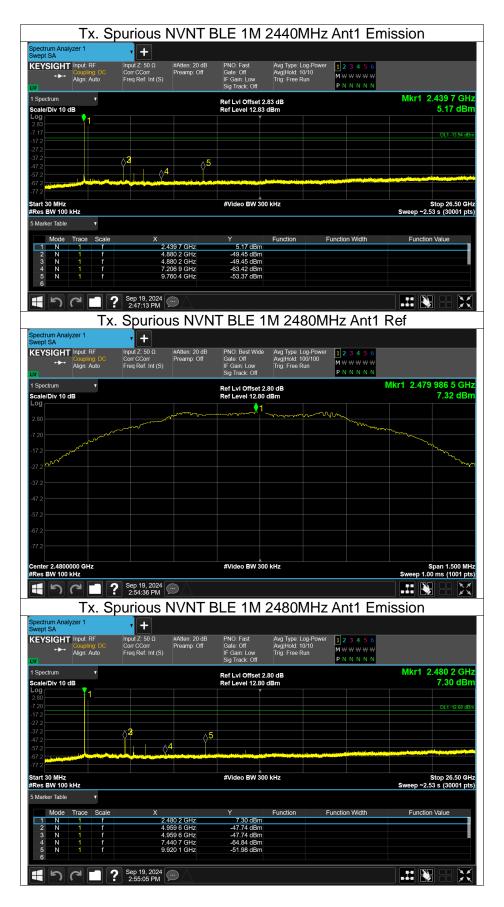
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.6	-20	Pass
NVNT	BLE 1M	2440	Ant1	-55.5	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.06	-20	Pass











## FREQUENCY STABILITY

Channel 19	2440.0000		
Voltage(V)	Measurement Frequency(MHz)		
5.75	2440.0026		
5	2440.0022		
4.25	2440.0016		
Max.Deviation(MHz)	0.0026		
Max.Deviation(ppm)	1.07		

Temperature(℃)	Measurement Frequency(MHz)			
-30	2440.0039			
-20	2440.0032			
-10	2440.0032			
0	2440.0036			
10	2440.0032			
20	2440.0035			
30	2440.0032			
40	2440.0030			
50	2440.0036			
Max.Deviation(MHz)	0.0039			
Max.Deviation(ppm)	1.60			



## **APPENDIX II - MEASUREMENT PHOTOS**

Note: Please see the attached RF\_Test Setup photos for FCC ID & IC.



Note: Please see the attached TL04-1\_EUT Photos.