

# RF TEST REPORT

Product Name: Frost-free refrigerator

Model Name: HRM260P9TSE, HRM260P9T\*E, (\*) maybe A-Z

FCC ID: 2A4A3FRIDGE-780W

Issued For : Hisense Ronshen (Guangdong) Refrigerator Co.,Ltd

No.8 Ronggang Road Ronggui Shunde Foshan Guangdong

P.R.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: LGT25C081RF02

Sample Received Date: April 14, 2025

Date of Test: April 14, 2025 ~ July 14, 2025

Date of Issue: July 15, 2025

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### **TEST REPORT CERTIFICATION**

Applicant: Hisense Ronshen (Guangdong) Refrigerator Co.,Ltd

Address: No.8 Ronggang Road Ronggui Shunde Foshan Guangdong P.R.China

Manufacturer: Hisense Ronshen (Guangdong) Refrigerator Co.,Ltd

Address: No.8 Ronggang Road Ronggui Shunde Foshan Guangdong P.R.China

Product Name: Frost-free refrigerator

Trademark: Hisense

Model Name: HRM260P9TSE, HRM260P9T\*E, (\*) maybe A-Z

Sample Status: Normal

Serial Number: LGT2503124-1

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

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Technical Director

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### **Revision History**

Rev.	Issue Date	Contents
00	July 15, 2025	Initial Issue

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### 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	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB&99% 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.

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

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	±0.46 %
2	RF Output Power, Conducted	±0.71dB
3	Power Spectral Density, Conducted	±1.57 dB
4	Unwanted Emission, Conducted	±0.63dB
5	Conducted emission	±2.80dB
6	All Emissions, Radiated (0.009-30MHz)	±2.16dB
7	All Emissions, Radiated (30MHz-1GHz)	±4.61dB
8	All Emissions, Radiated (1GHz-18GHz)	±5.49dB
9	Temperature	±0.5°C
10	Humidity	±2%
11	Duty Cycle	±2.3%

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

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#### 2. GENERAL INFORMATION

#### 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Frost-free refrigerator		
Trademark:	Hisense		
Model Name:	HRM260P9TSE		
Serials Model Name:	HRM260P9T*E, (*) maybe	A-Z	
Model Difference:	Only difference in model na	ime.	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
	Radio Technology:	BLE	
Product Description:	Bluetooth Configuration:	BLE (1M PHY, 2M PHY)	
	Number Of Channel:	40	
	Antenna Type:	Metal Antenna	
	Antenna Gain (dBi):	2.1	
Channel List:	Please refer to the Note 3.		
Rating:	Input: AC 110-115V/60Hz, 3A		
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.

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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

Worst Mode	Description	Data/Modulation
Mode 4	TX CH00(2402MHz)	2 MHz/GFSK
Mode 5	TX CH19(2440MHz)	2 MHz/GFSK
Mode 6	TX CH39(2480MHz)	2 MHz/GFSK

#### Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

#### For AC Conducted Emission

	Test Case
AC Conducted Emission	Mode 7: Keeping BLE TX

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#### 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				
	Mode Or Modulation type	Power setting			
CMD Command	1M	Default			
	2M	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

7 10000001100 Equip	tecessories Equipment							
Description	Description Manufacturer		S/N	Rating				

**Auxiliary Equipment** 

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T470s	N/A	N/A

#### Note:

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

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### 2.5 EQUIPMENTS LIST

Conducted Emission						
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until	
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05	
LISN	COM-POWER	LI-115	02032	2025.03.05	2026.03.04	
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04	
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2025.03.05	2026.03.04	
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600-NMNM-2M	N.A	2025.03.06	2026.03.05	
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09	
Testing Software	EMC-I_V1.4.0.3_SKET					

Radiated Test equipment						
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until	
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05	
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10	
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04	
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024.05.17	2027.05.16	
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09	
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023.10.23	2026.10.22	
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2025.03.06	2026.03.05	
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05	
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2024.10.21	2025.10.20	
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600 -NMNM-8M	N.A	2025.03.06	2026.03.05	
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B -NMSM-1M9	N.A	2025.03.06	2026.03.05	
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241 -05000KMSKMS	N.A	2025.03.08	2026.03.07	
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2024.08.05	2025.08.04	
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A	
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09	
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	2025.03.05	2026.03.04		
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04		
Signal Analyzer	R&S	FSV40-N	102245	2025.02.17	2026.02.16		
Power Sensor	R&S	NRP8S	149.0006K02 -104963-Ae	2025.03.06	2026.03.05		
RF Automatic Test system	MW	MW100-RFCB	MW220324LG -33	2025.03.06	2026.03.05		
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04		
Temperature& Humidity test	AISRY	LX-1000L	171200018	2024.08.05	2025.08.04		

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chamber					
Attenuator	eastsheep	90db	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Digital multimeter	MASTECH	MS8261	MBGBC83053	2025.03.05	2026.03.04
DC source	Jiuyuan	QJ6010E	N.A	2025.03.09	2026.03.08
Testing Software	MTS8310_V2.0.0.0_MW				

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#### 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.

EDEOLIENCY (MH-)	Conducted Emiss	ion 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

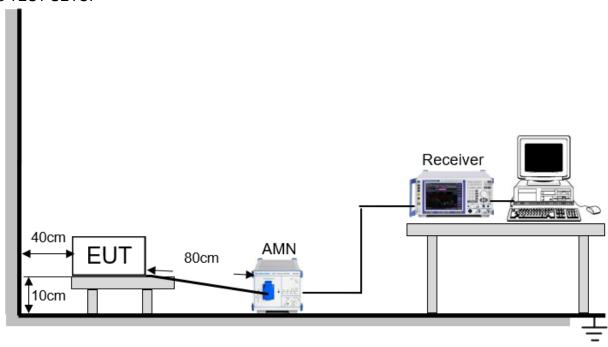
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#### 3.2 TEST PROCEDURE

- a. The EUT is 0.1 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



#### 3.4 EUT OPERATING CONDITIONS

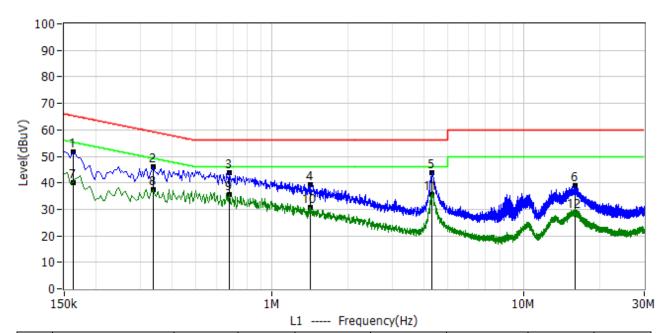
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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### 3.5 TEST RESULTS

Project: LGT25C081	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 23.4°C
M/N: HRM260P9TSE	Humidity: 40%RH
Test Voltage: AC 110V/60Hz	Test Data: 2025-05-12
Test Mode: TX BLE 2402	
Note:	

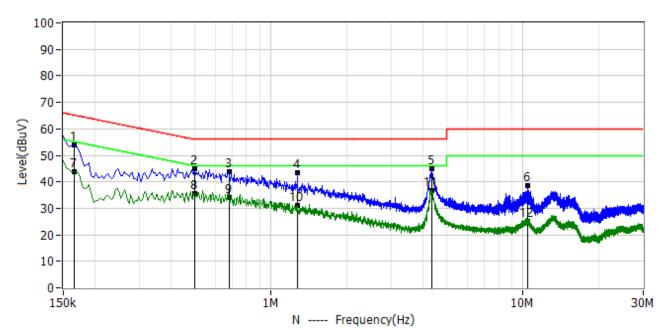


No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.162	41.05	10.71	51.76	65.36	-13.60	QP	L1
2*	0.338	35.11	10.88	45.99	59.25	-13.26	QP	L1
3*	0.678	32.99	10.85	43.84	56.00	-12.16	QP	L1
4*	1.422	28.26	11.11	39.37	56.00	-16.63	QP	L1
5*	4.318	32.73	11.26	43.99	56.00	-12.01	QP	L1
6*	15.886	27.22	11.74	38.96	60.00	-21.04	QP	L1
7*	0.162	29.39	10.71	40.10	55.40	-15.30	AV	L1
8*	0.338	26.72	10.88	37.60	49.30	-11.70	AV	L1
9*	0.678	24.75	10.85	35.60	46.00	-10.40	AV	L1
10*	1.422	19.59	11.11	30.70	46.00	-15.30	AV	L1
11*	4.318	24.24	11.26	35.50	46.00	-10.50	AV	L1
12*	15.886	16.96	11.74	28.70	50.00	-21.30	AV	L1

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Project: LGT25C081	Test Engineer: LiuH	
EUT: Frost-free refrigerator	Temperature: 23.4°C	
M/N: HRM260P9TSE	Humidity: 40%RH	
Test Voltage: AC 110V/60Hz	Test Data: 2025-05-12	
Test Mode: TX BLE 2402		
Note:		



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.166	43.36	10.64	54.00	65.16	-11.16	QP	N
2*	0.498	34.09	10.84	44.93	56.03	-11.11	QP	N
3*	0.682	33.05	10.85	43.90	56.00	-12.10	QP	N
4*	1.274	32.31	10.97	43.28	56.00	-12.72	QP	N
5*	4.350	33.61	11.29	44.90	56.00	-11.10	QP	N
6*	10.434	27.25	11.51	38.76	60.00	-21.24	QP	N
7*	0.166	33.06	10.64	43.70	55.20	-11.40	AV	N
8*	0.498	24.66	10.84	35.50	46.00	-10.50	AV	N
9*	0.682	23.25	10.85	34.10	46.00	-11.90	AV	N
10*	1.274	20.13	10.97	31.10	46.00	-14.90	AV	N
11*	4.350	25.41	11.29	36.70	46.00	-9.30	AV	N
12*	10.434	13.69	11.51	25.20	50.00	-24.80	AV	N



#### 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)

FREQUENCY (MHz)	(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).

#### 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			

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### 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 / 200 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
Ctart/Ctan Fraguesay	Lower Band Edge: 2310 to 2410 MHz
Start/Stop Frequency	Upper Band Edge: 2475 to 2500 MHz
DD (VD	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

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#### 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.
- The EUT was placed on the top of a rotating table 0.1 mabove the ground at a 3 m anechoic
- b. chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
  - The height of the equipment shall be 0.1 m; the height of the test antenna shall vary between
- c. 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
  - The initial step in collecting conducted emission data is a spectrum analyzer peak detector
- d. mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
  - If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit,
- e. 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.

#### 3.2.3 DEVIATION FROM TEST STANDARD

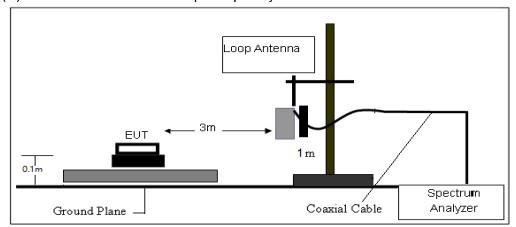
No deviation.

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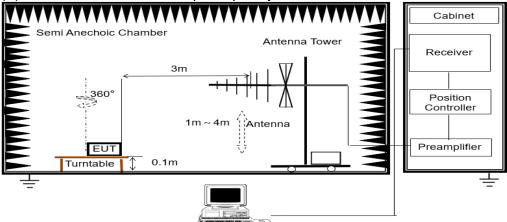


#### 4.3 TESTSETUP

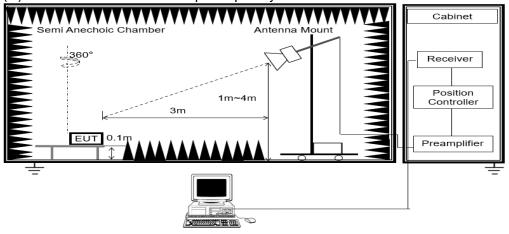
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



(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 2.2 of this report.

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#### 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

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#### 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.

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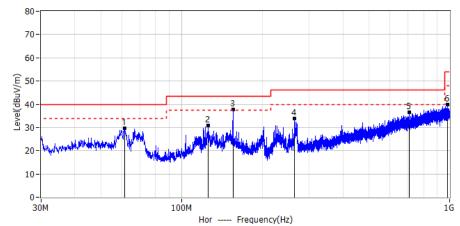


### Results of Radiated Emissions (30MHz~1000MHz)

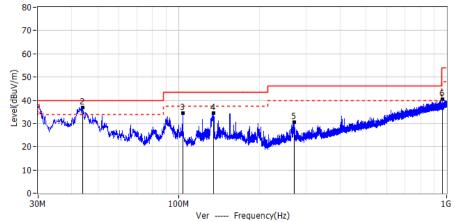
Note:1. All mode has been tested, only shown the worst case data,

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

Project: LGT25C081	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 25.1°C
M/N: HRM260P9TSE	Humidity: 50%RH
Test Voltage: AC 110V/60Hz	Test Data: 2025-05-12
Test Mode: TX BLE 2402	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	61.404	9.99	19.54	29.53	40.00	-10.47	QP	Hor
2*	125.788	10.64	20.20	30.84	43.50	-12.66	QP	Hor
3*	155.736	15.68	22.03	37.71	43.50	-5.79	QP	Hor
4*	263.891	13.21	20.51	33.72	46.00	-12.28	QP	Hor
5*	705.969	5.24	31.44	36.68	46.00	-9.32	QP	Hor
6*	983.268	4.37	35.37	39.74	54.00	-14.26	QP	Hor



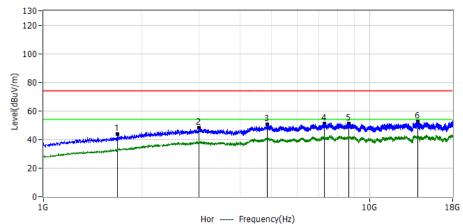
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1	30.280	14.74	19.60	34.34	40.00	-5.66	QP	Ver
2*	43.944	15.98	20.99	36.97	40.00	-3.03	QP	Ver
3*	103.841	16.68	17.65	34.33	43.50	-9.17	QP	Ver
4*	134.881	13.48	21.08	34.56	43.50	-8.94	QP	Ver
5*	270.196	10.01	20.59	30.60	46.00	-15.40	QP	Ver
6*	965.808	5.49	34.84	40.33	54.00	-13.67	QP	Ver

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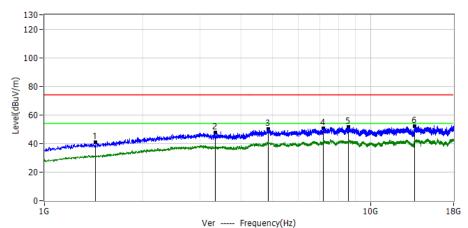


### Results of Radiated Emissions (Above 1000MHz)

Project: LGT25C081	Test Engineer: LiuH	
EUT: Frost-free refrigerator	Temperature: 25°C	
M/N: HRM260P9TSE	Humidity: 55%RH	
Test Voltage: AC 110V/60Hz	Test Data: 2025-05-17	
Test Mode: BLE 2M 2402		
Note:		



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
		+						
1*	1688.5000	62.15	-18.50	43.65	74.00	-30.35	PK	Hor
2*	3001.7000	56.31	-8.12	48.19	74.00	-25.81	PK	Hor
3*	4865.4000	56.43	-5.90	50.53	74.00	-23.47	PK	Hor
4*	7285.7000	58.09	-7.04	51.05	74.00	-22.95	PK	Hor
5*	8633.0000	58.61	-7.36	51.25	74.00	-22.75	PK	Hor
6*	14053.9000	56.86	-4.16	52.70	74.00	-21.30	PK	Hor

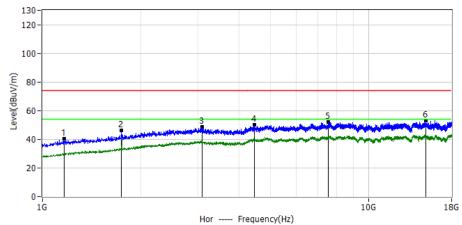


		1						
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Folai
1*	1433.5000	62.02	-20.90	41.12	74.00	-32.88	PK	Ver
2*	3343.9000	55.90	-8.25	47.65	74.00	-26.35	PK	Ver
3*	4865.4000	56.22	-5.90	50.32	74.00	-23.68	PK	Ver
4*	7160.4000	57.75	-7.06	50.69	74.00	-23.31	PK	Ver
5*	8575.6000	59.12	-7.42	51.70	74.00	-22.30	PK	Ver
6*	13688.4000	57.20	-5.14	52.06	74.00	-21.94	PK	Ver

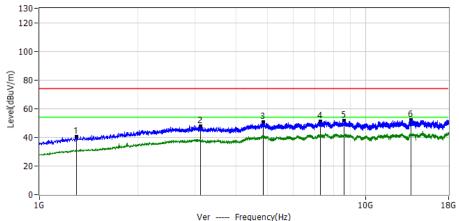
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Project: LGT25C081	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 25°C
M/N: HRM260P9TSE	Humidity: 55%RH
Test Voltage: AC 110V/60Hz	Test Data: 2025-05-17
Test Mode: BLE 2M 2440	
Note:	



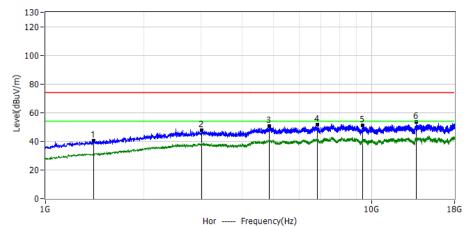
Frequency Reading Factor Level Limit Margin No. Detector Polar MHz dBuV dB/m dBuV/m dBuV/m dΒ 1\* 1165.7000 63.92 -23.51 40.41 74.00 -33.59 PΚ Hor 2\* 1748.0000 -17.81 -27.97 PK 63.84 46.03 74.00 Hor 3\* 3084.6000 56.74 -8.15 48.59 74.00 -25.41 PK Hor 4\* 4476.5000 56.05 -5.70 50.35 74.00 -23.65 PΚ Hor 5\* 7521.6000 59.13 -7.03 52.10 74.00 -21.90 PΚ Hor -3.90 6\* 14978.2000 74.00 -20.90 PΚ 57.00 53.10 Hor



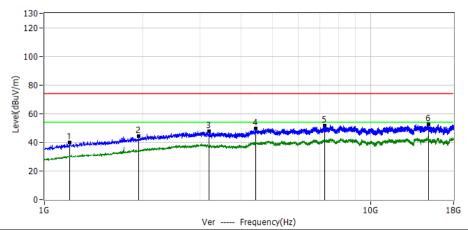
				vei rrequerie	7(112)			
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1297.5000	62.39	-22.17	40.22	74.00	-33.78	PK	Ver
2*	3118.6000	55.67	-8.16	47.51	74.00	-26.49	PK	Ver
3*	4856.9000	56.68	-5.89	50.79	74.00	-23.21	PK	Ver
4*	7264.5000	57.93	-7.04	50.89	74.00	-23.11	PK	Ver
5*	8618.1000	58.84	-7.37	51.47	74.00	-22.53	PK	Ver
6*	13813.7000	56.65	-4.64	52.01	74.00	-21.99	PK	Ver



Project: LGT25C081	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 25°C
M/N: HRM260P9TSE	Humidity: 55%RH
Test Voltage: AC 110V/60Hz	Test Data: 2025-05-17
Test Mode: BLE 2M 2480	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1405.9000	61.62	-21.10	40.52	74.00	-33.48	PK	Hor
2*	3016.6000	55.62	-8.13	47.49	74.00	-26.51	PK	Hor
3*	4856.9000	56.36	-5.89	50.47	74.00	-23.53	PK	Hor
4*	6816.1000	59.09	-7.24	51.85	74.00	-22.15	PK	Hor
5*	9412.9000	58.10	-7.14	50.96	74.00	-23.04	PK	Hor
6*	13743.6000	58.54	-4.92	53.62	74.00	-20.38	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1193.4000	63.05	-23.21	39.84	74.00	-34.16	PK	Ver
2*	1941.4000	60.02	-15.48	44.54	74.00	-29.46	PK	Ver
3*	3201.5000	56.10	-8.19	47.91	74.00	-26.09	PK	Ver
4*	4440.4000	55.35	-5.85	49.50	74.00	-24.50	PK	Ver
5*	7256.0000	58.64	-7.04	51.60	74.00	-22.40	PK	Ver
6*	15042.0000	56.36	-3.78	52.58	74.00	-21.42	PK	Ver

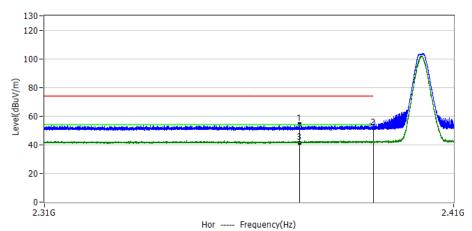
#### Remark:

In frequency ranges above 18GHz 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.

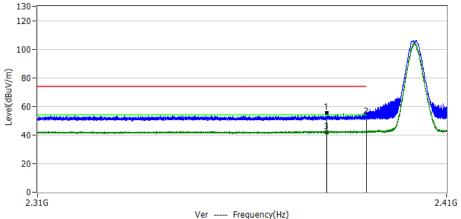


4.7 TEST RESULTS (BAND EDGE REQUIREMENTS)Note:1. All mode has been tested, only shown the worst case data,2. The peak value is less than the AV limit, so no AV data is displayed.

Project: LGT25C081	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 25°C
M/N: HRM260P9TSE	Humidity: 55%RH
Test Voltage: AC 110V/60Hz	Test Data: 2025-05-17
Test Mode: BLE 2M 2402	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2371.9000	18.26	36.36	54.62	74.00	-19.38	PK	Hor
2*	2390.0000	15.24	36.46	51.70	74.00	-22.30	PK	Hor
3*	2371.9000	5.14	36.36	41.50	54.00	-12.50	AV	Hor

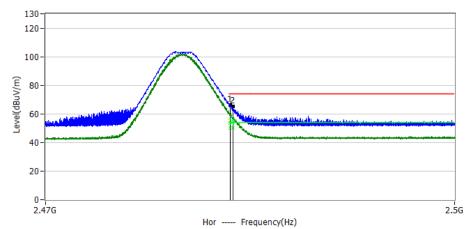


					7 (			
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2380.3000	18.92	36.41	55.33	74.00	-18.67	PK	Ver
2*	2390.0000	16.24	36.46	52.70	74.00	-21.30	PK	Ver
3*	2380.3000	5.49	36.41	41.90	54.00	-12.10	AV	Ver

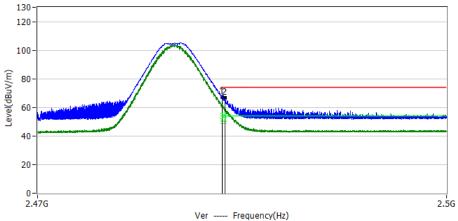
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Project: LGT25C081	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 25°C
M/N: HRM260P9TSE	Humidity: 55%RH
Test Voltage: AC 110V/60Hz	Test Data: 2025-05-17
Test Mode: BLE 2M 2480	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	28.80	37.20	66.00	74.00	-8.00	PK	Hor
2*	2483.7000	27.86	37.20	65.06	74.00	-8.94	PK	Hor
3	2483.5000	12.96	37.20	50.16	54.00	-3.84	AV	Hor
4	2483.7000	12.88	37.20	50.08	54.00	-3.92	AV	Hor



					7 ()			
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	29.90	37.20	67.10	74.00	-6.90	PK	Ver
2*	2483.7000	29.44	37.20	66.64	74.00	-7.36	PK	Ver
3	2483.5000	12.64	37.20	49.84	54.00	-4.16	AV	Ver
4	2483.7000	12.64	37.20	49.84	54.00	-4.16	AV	Ver

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#### 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.

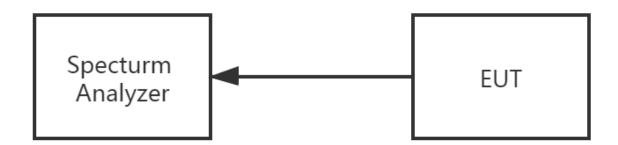
#### 5.2 TEST PROCEDURE

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		
Ctart/Ctan Fraguency	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) = 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.

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#### 6. POWER SPECTRAL DENSITY TEST

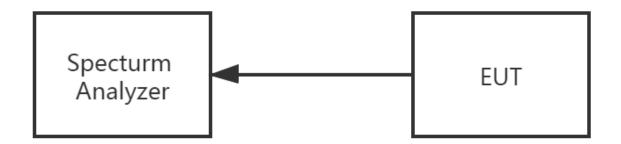
#### 6.1 LIMIT

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:  $100 \text{ kHz} \ge \text{RBW} \ge 3 \text{ kHz}$ .
- 4. Set the VBW ≥ 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.

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#### 7. BANDWIDTH TEST

#### **7.1 LIMIT**

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

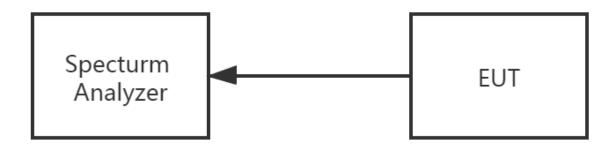
#### 7.2 TEST PROCEDURE

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

Center Frequency	The centre frequency of the channel under test
Detector	Peak
IRRW/	For 6 dB Bandwidth :100KHz For 99% Bandwidth :1% to 5% of the occupied bandwidth
IVBW	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

For the measurement records, refer to the appendix I.

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#### 8. PEAK OUTPUT POWER TEST

#### 8.1 LIMIT

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 ≥ DTS bandwidth.
- b) Set VBW ≥ [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  $\times$  RBW].
- c) Set the span  $\geq$  [1.5  $\times$  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



#### 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.

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#### 9. ANTENNA REQUIREMENT

#### 9.1 STANDARD REQUIREMENT

15.203&RSS Gen 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 Metal Antenna. It comply with the standard requirement.

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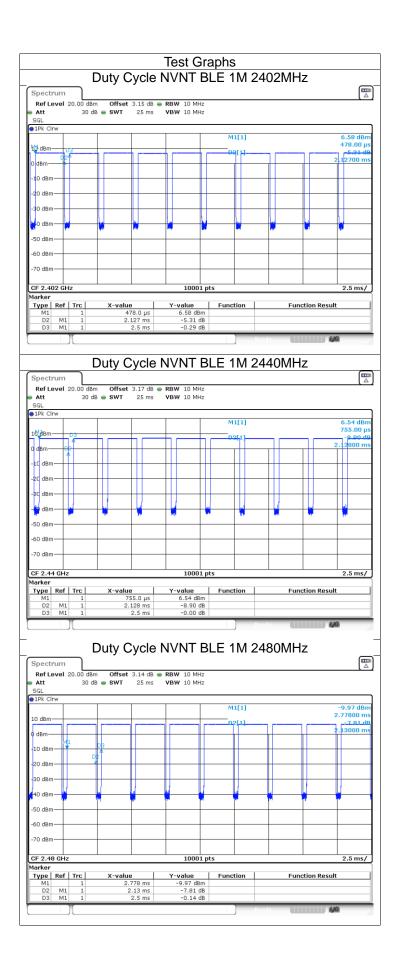
## **APPENDIX I - TEST RESULTS**

**Duty Cycle** 

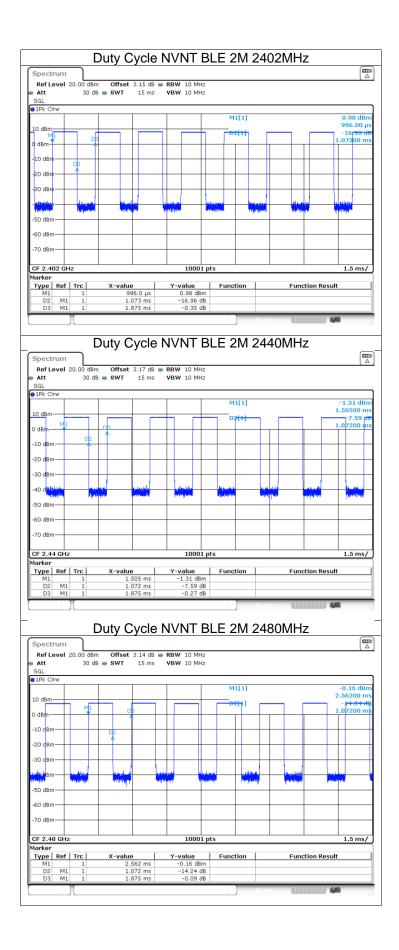
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	2.127	2.5	85.08	0.7	0.47
NVNT	BLE 1M	2440	2.128	2.5	85.12	0.7	0.47
NVNT	BLE 1M	2480	2.13	2.5	85.2	0.7	0.47
NVNT	BLE 2M	2402	1.073	1.875	57.23	2.42	0.93
NVNT	BLE 2M	2440	1.072	1.875	57.17	2.43	0.93
NVNT	BLE 2M	2480	1.072	1.875	57.17	2.43	0.93

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**Maximum Peak Conducted Output Power** 

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	7.08	30	Pass
NVNT	BLE 1M	2440	7.01	30	Pass
NVNT	BLE 1M	2480	6.49	30	Pass
NVNT	BLE 2M	2402	8.1	30	Pass
NVNT	BLE 2M	2440	7.78	30	Pass
NVNT	BLE 2M	2480	7.5	30	Pass

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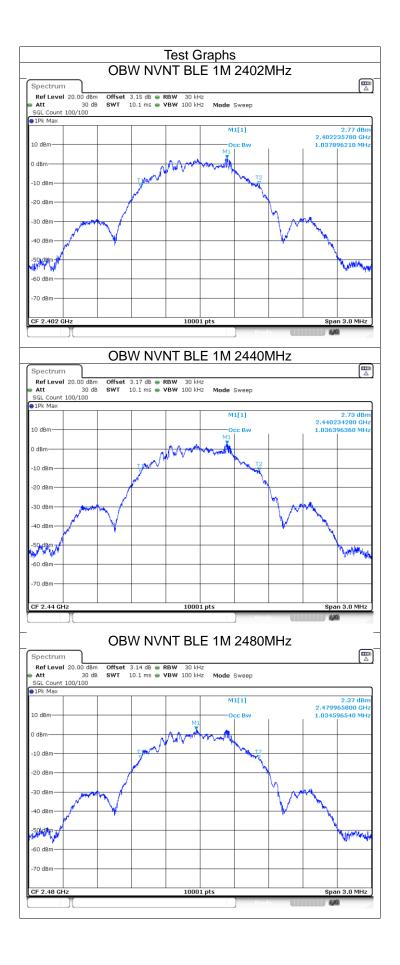


**Occupied Channel Bandwidth** 

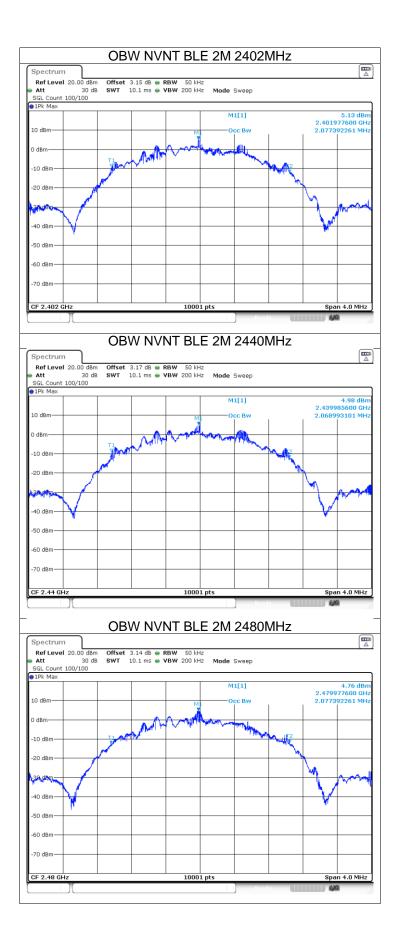
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	BLE 1M	2402	1.038
NVNT	BLE 1M	2440	1.036
NVNT	BLE 1M	2480	1.035
NVNT	BLE 2M	2402	2.077
NVNT	BLE 2M	2440	2.069
NVNT	BLE 2M	2480	2.077

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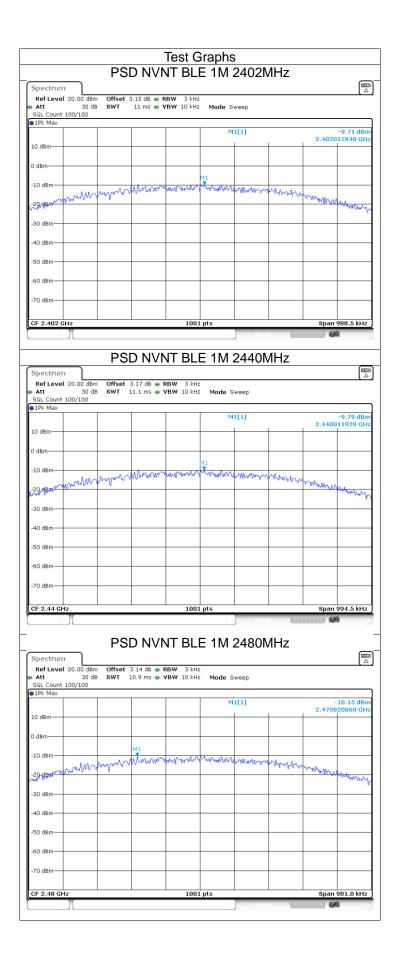


**Maximum Power Spectral Density Level** 

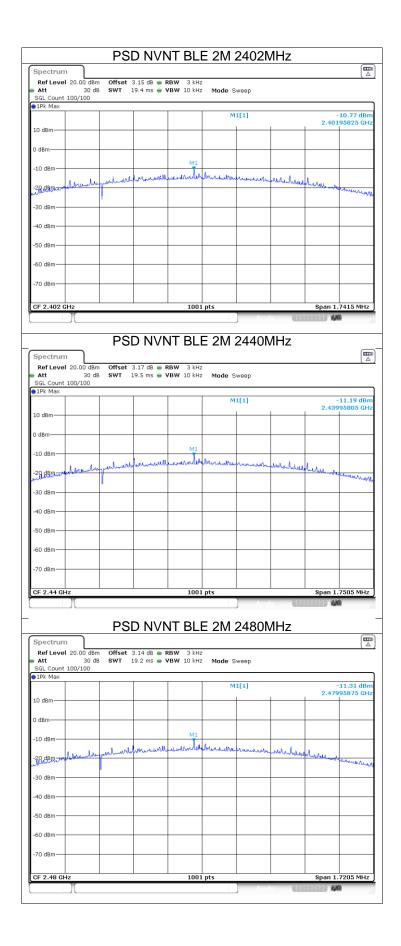
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-9.71	8	Pass
NVNT	BLE 1M	2440	-9.79	8	Pass
NVNT	BLE 1M	2480	-10.15	8	Pass
NVNT	BLE 2M	2402	-10.77	8	Pass
NVNT	BLE 2M	2440	-11.19	8	Pass
NVNT	BLE 2M	2480	-11.31	8	Pass

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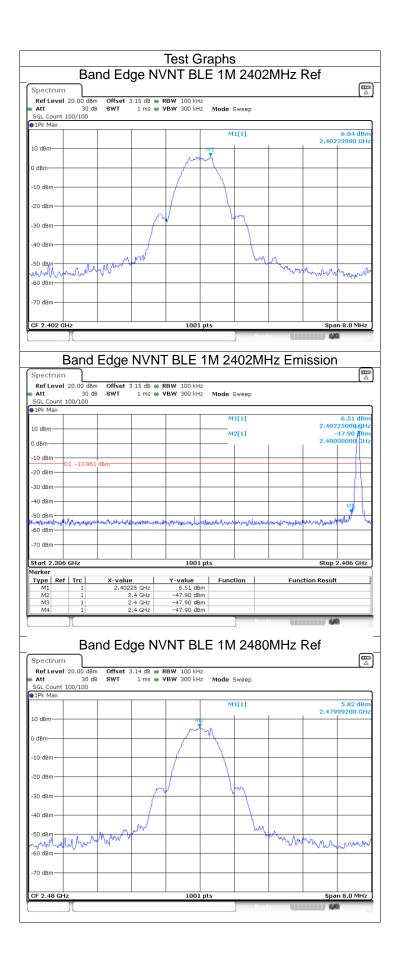


**Band Edge** 

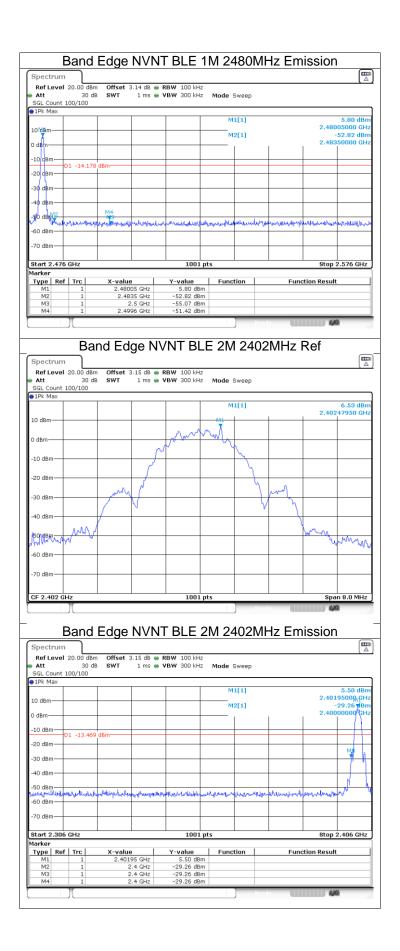
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-53.94	-20	Pass
NVNT	BLE 1M	2480	-57.24	-20	Pass
NVNT	BLE 2M	2402	-35.78	-20	Pass
NVNT	BLE 2M	2480	-56.84	-20	Pass

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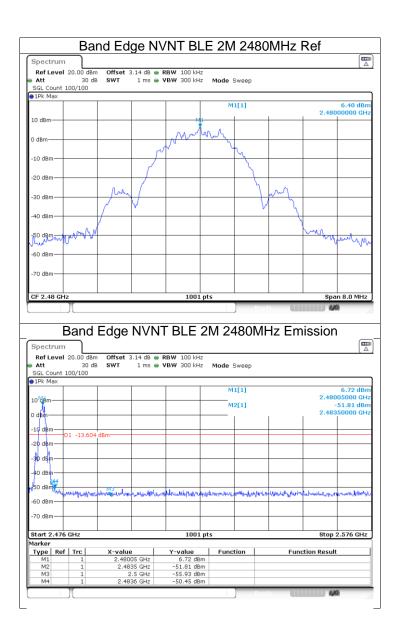












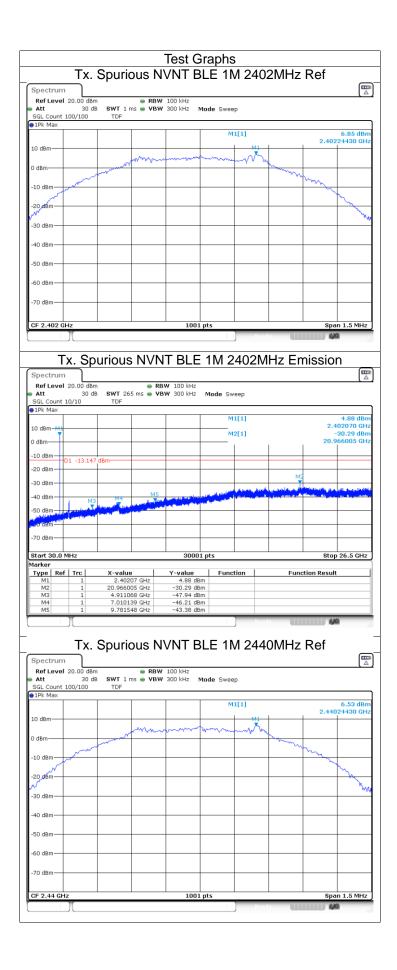


## **Conducted RF Spurious Emission**

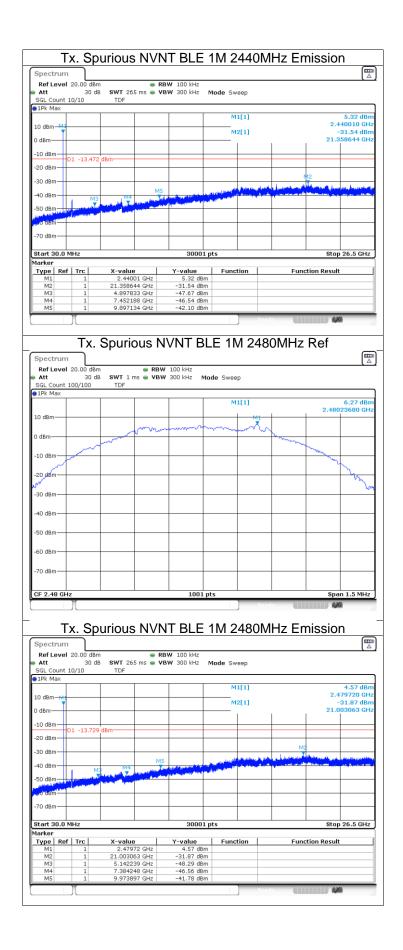
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-37.13	-20	Pass
NVNT	BLE 1M	2440	-38.07	-20	Pass
NVNT	BLE 1M	2480	-38.13	-20	Pass
NVNT	BLE 2M	2402	-39.03	-20	Pass
NVNT	BLE 2M	2440	-37.42	-20	Pass
NVNT	BLE 2M	2480	-38.71	-20	Pass

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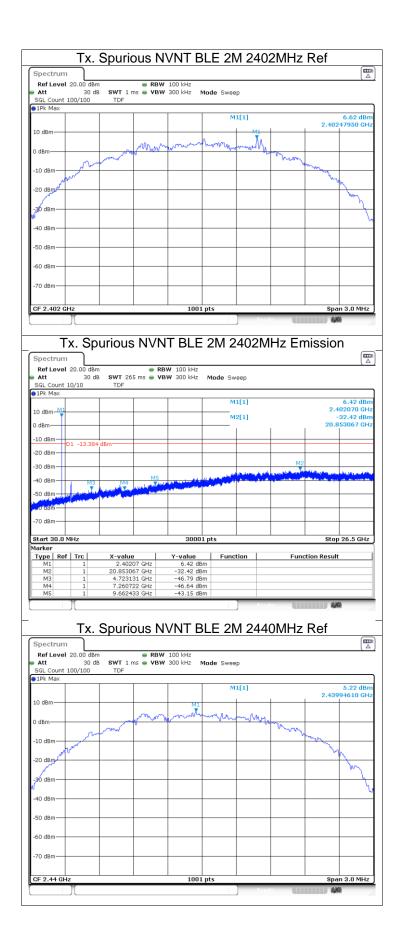




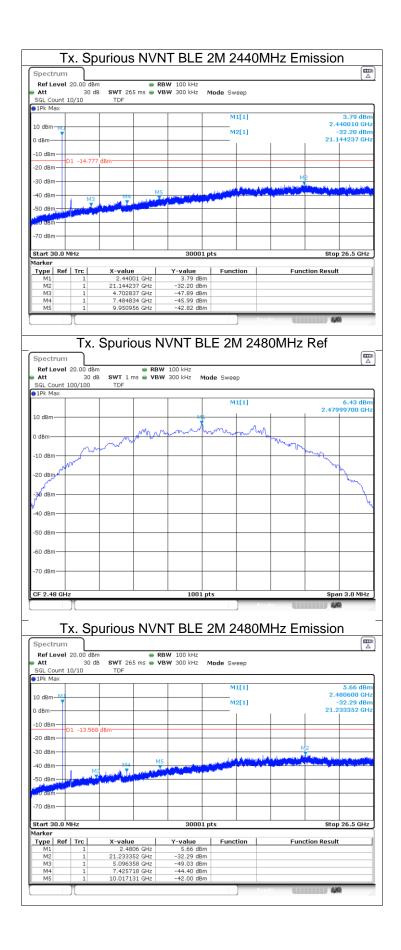


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## -6dB Bandwidth

OGD Barra		_	0 ID D   1 1 141	1 ' ' 0 ID D	11/ 11/4
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.664	0.5	Pass
NVNT	BLE 1M	2440	0.699	0.5	Pass
NVNT	BLE 1M	2480	0.657	0.5	Pass
NVNT	BLE 2M	2402	1.134	0.5	Pass
NVNT	BLE 2M	2440	1.217	0.5	Pass
NVNT	BLE 2M	2480	1.259	0.5	Pass

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## **APPENDIX II - MEASUREMENT PHOTOS**

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

\*\*\*\*\*END OF THE REPORT\*\*\*

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